

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY040325\  
 Data File : VY021772.D  
 Acq On : 03 Apr 2025 14:43  
 Operator : SY/MD  
 Sample : Q1706-03  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PL-02-040225

Quant Time: Apr 04 01:31:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032725S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 28 02:30:29 2025  
 Response via : Initial Calibration

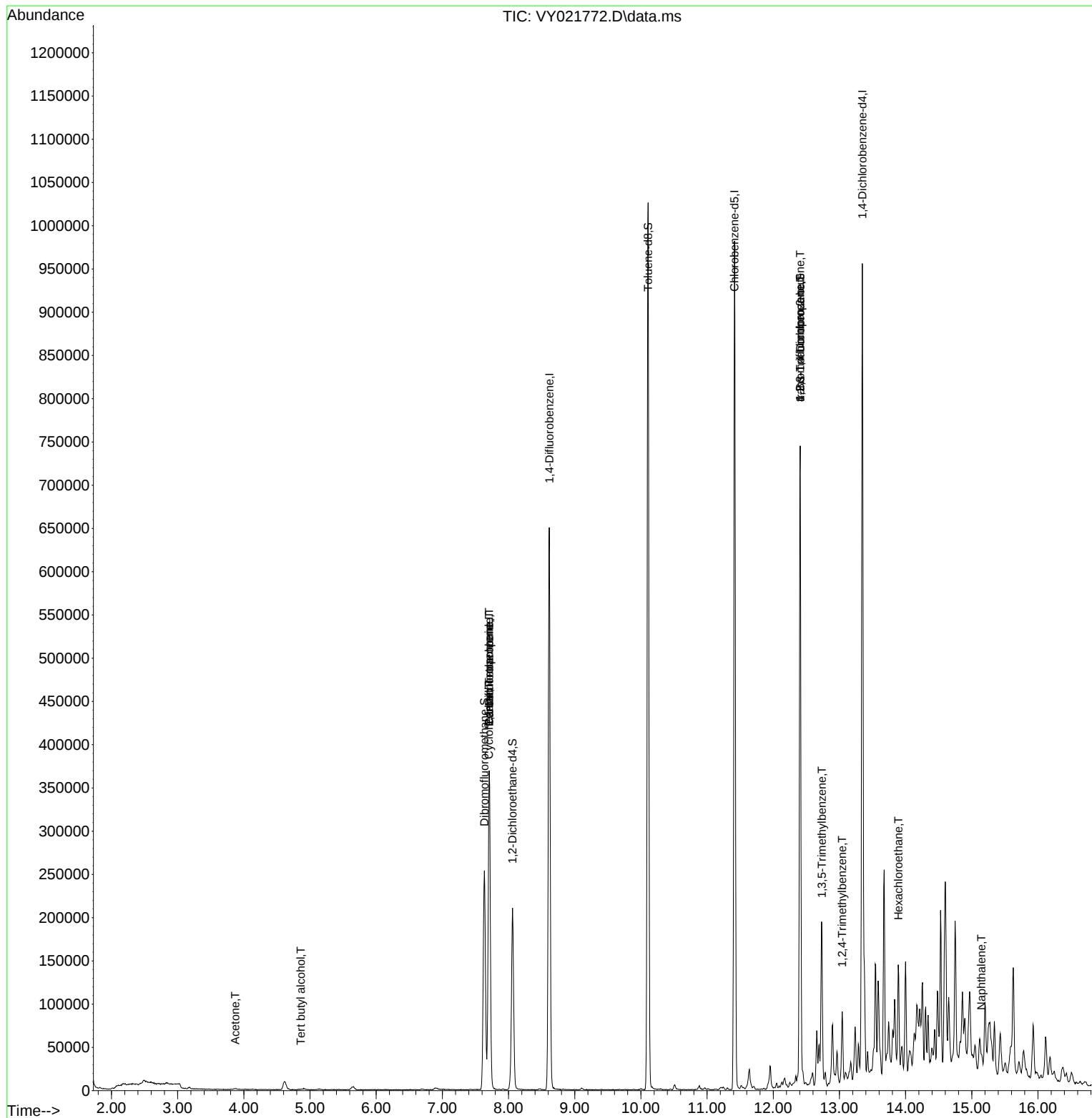
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.707     | 168   | 277413   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616     | 114   | 535210   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.414    | 117   | 500335   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346    | 152   | 223380   | 50.000    | ug/l       | 0.00     |
|                               |           |       |          |           |            |          |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.061     | 65    | 159571   | 53.090    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 106.180% |          |
| 35) Dibromofluoromethane      | 7.634     | 113   | 174618   | 50.296    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 100.600% |          |
| 50) Toluene-d8                | 10.109    | 98    | 657467   | 49.779    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | = 99.560%  |          |
| 62) 4-Bromofluorobenzene      | 12.408    | 95    | 222952   | 49.905    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery  | = 99.820%  |          |
|                               |           |       |          |           |            |          |
| Target Compounds              |           |       |          |           |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.860     | 59    | 600      | 3.073     | ug/l #     | 70       |
| 16) Acetone                   | 3.872     | 43    | 1886     | 3.066     | ug/l       | 89       |
| 20) Methylene Chloride        | 4.610     | 84    | 6499     | Below Cal | #          | 91       |
| 31) Cyclohexane               | 7.701     | 56    | 6867     | 1.294     | ug/l #     | 18       |
| 36) 1,1-Dichloropropene       | 7.707     | 75    | 23043    | 4.357     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.707     | 117   | 28305    | 4.673     | ug/l #     | 17       |
| 76) 1,2,3-Trichloropropane    | 12.408    | 75    | 118553   | 53.540    | ug/l #     | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737    | 105   | 35411    | 2.611     | ug/l       | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.408    | 75    | 118553   | 123.366   | ug/l #     | 12       |
| 84) 1,2,4-Trimethylbenzene    | 13.042    | 105   | 40394    | 3.014     | ug/l       | 100      |
| 90) Hexachloroethane          | 13.889    | 117   | 4880     | 1.527     | ug/l #     | 12       |
| 95) Naphthalene               | 15.145    | 128   | 6166     | 1.004     | ug/l #     | 91       |
| -----                         |           |       |          |           |            |          |

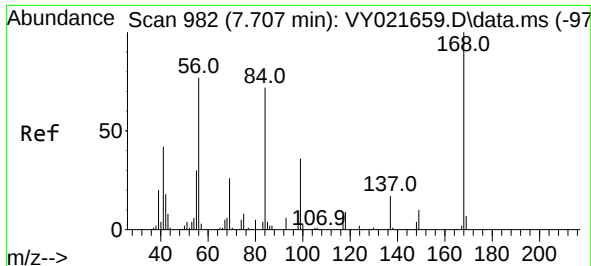
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : Q1706-03  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PL-02-040225

Quant Time: Apr 04 01:31:38 2025  
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QLast Update : Fri Mar 28 02:30:29 2025  
Response via : Initial Calibration

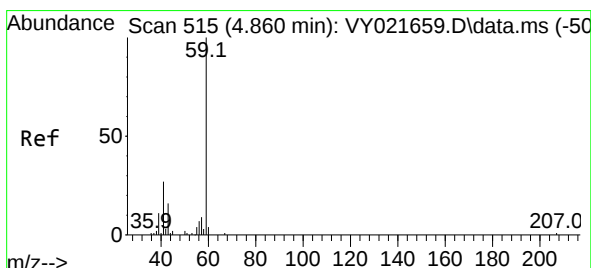
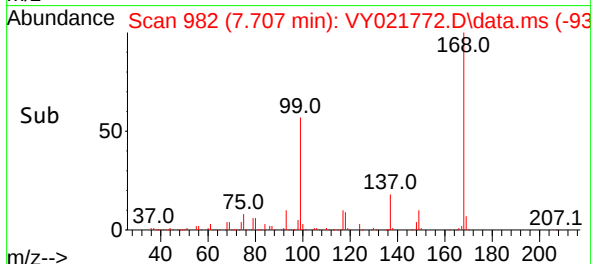
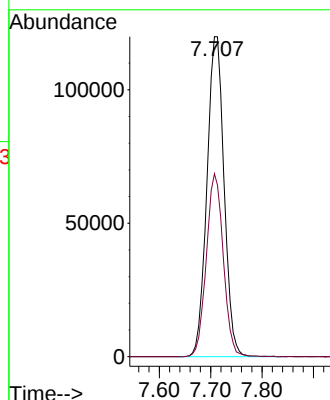
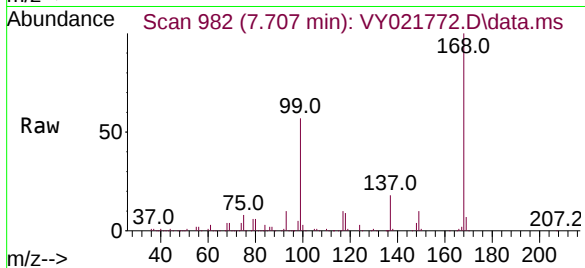




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

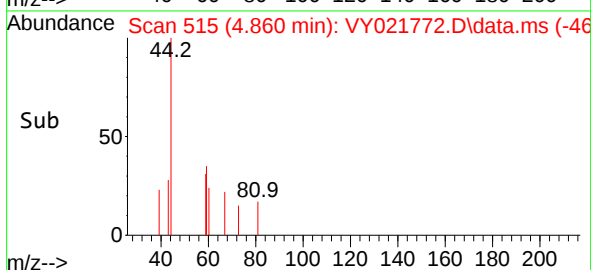
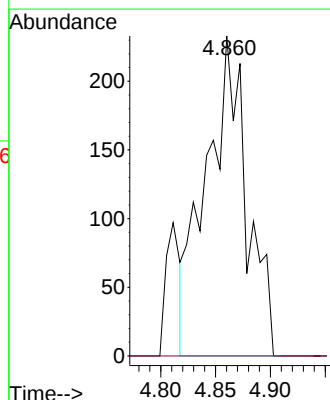
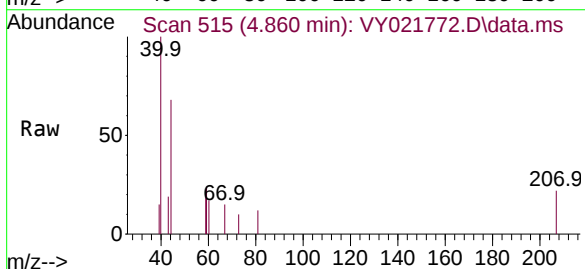
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PL-02-040225

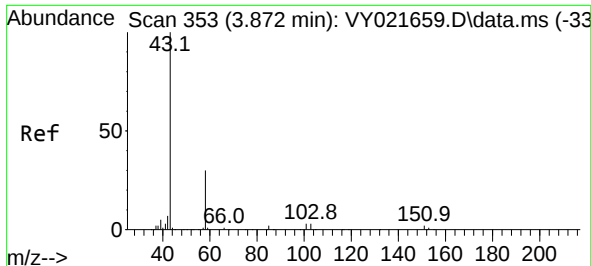
Tgt Ion:168 Resp: 277413  
Ion Ratio Lower Upper  
168 100  
99 57.1 46.7 70.1



#11  
Tert butyl alcohol  
Concen: 3.073 ug/l  
RT: 4.860 min Scan# 515  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

Tgt Ion: 59 Resp: 600  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.2 13.8#

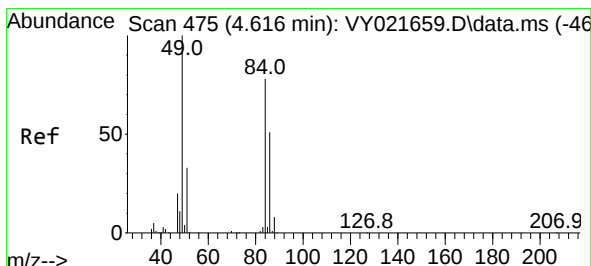
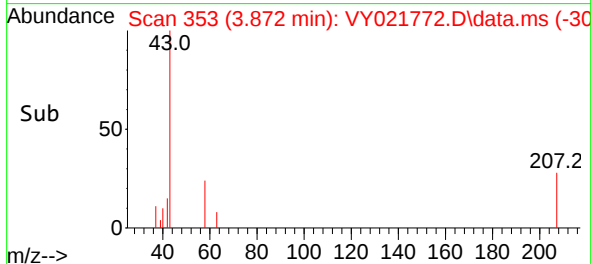
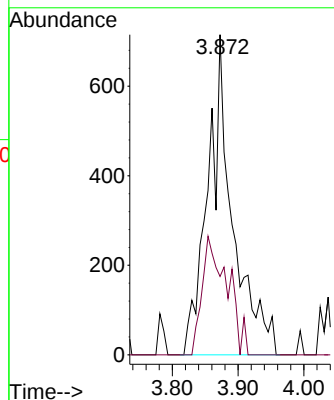
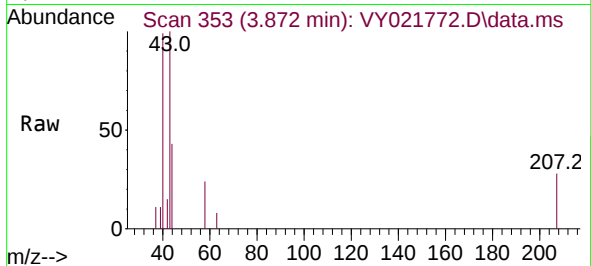




#16  
Acetone  
Concen: 3.066 ug/l  
RT: 3.872 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

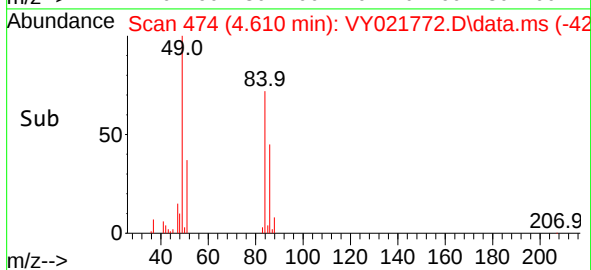
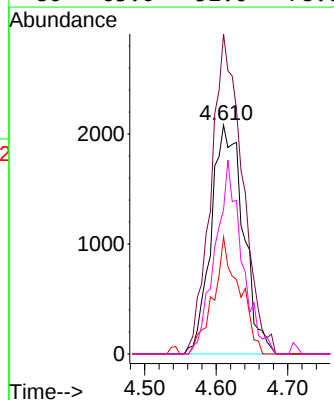
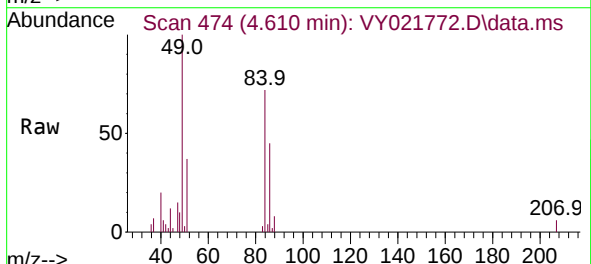
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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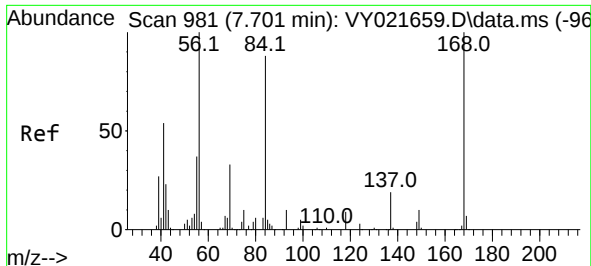
Tgt Ion: 43 Resp: 1886  
Ion Ratio Lower Upper  
43 100  
58 24.5 24.2 36.4



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.610 min Scan# 474  
Delta R.T. -0.006 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

Tgt Ion: 84 Resp: 6499  
Ion Ratio Lower Upper  
84 100  
49 139.9 102.8 154.2  
51 51.1 33.5 50.3#  
86 63.0 52.0 78.0

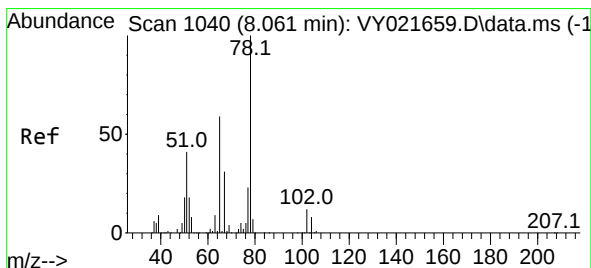
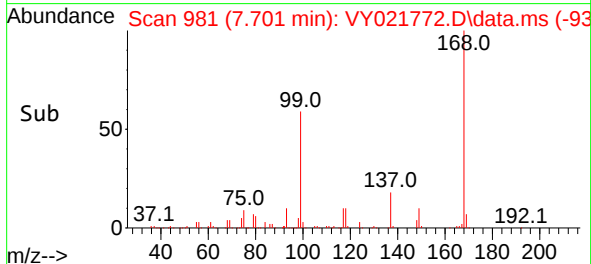
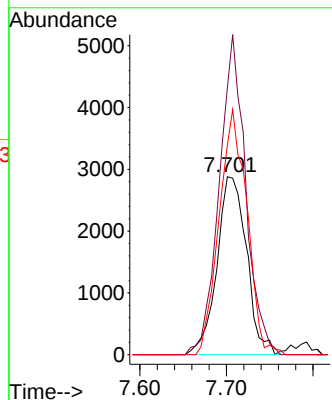
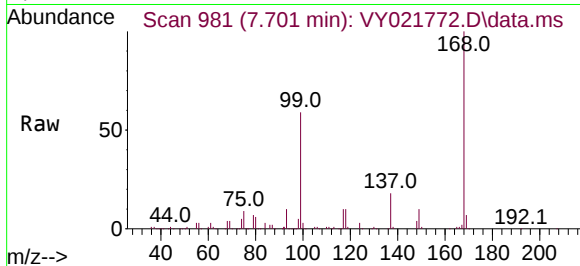




#31  
Cyclohexane  
Concen: 1.294 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

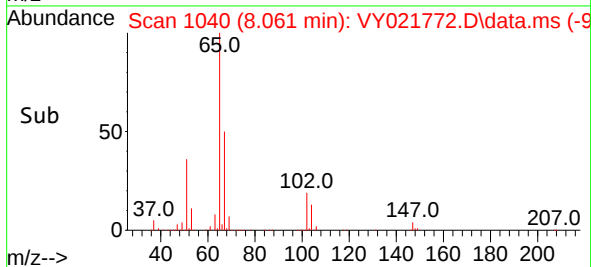
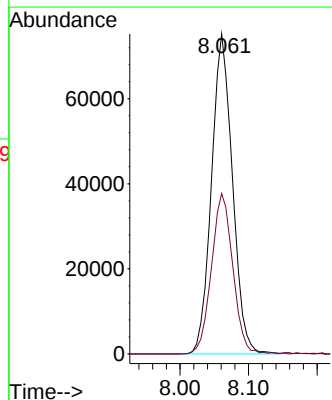
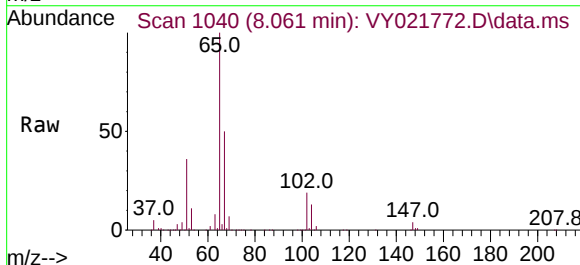
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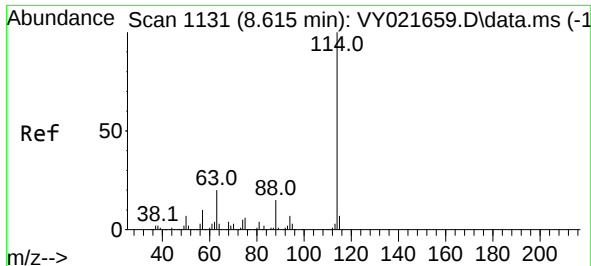
Tgt Ion: 56 Resp: 6867  
Ion Ratio Lower Upper  
56 100  
69 150.1 26.6 40.0#  
84 117.9 69.0 103.4#



#33  
1,2-Dichloroethane-d4  
Concen: 53.090 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

Tgt Ion: 65 Resp: 159571  
Ion Ratio Lower Upper  
65 100  
67 51.2 0.0 104.6

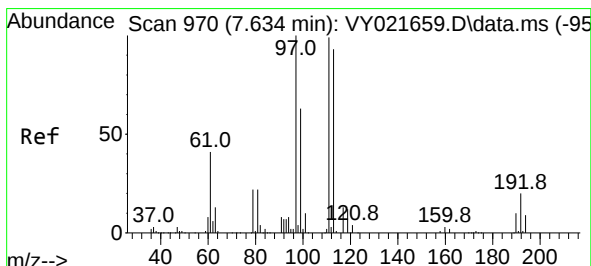
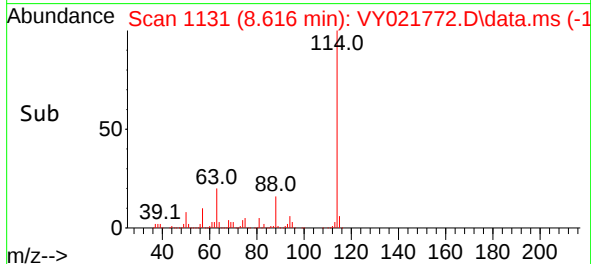
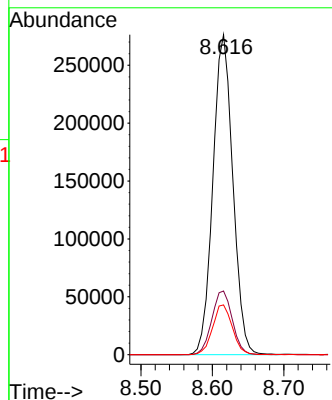
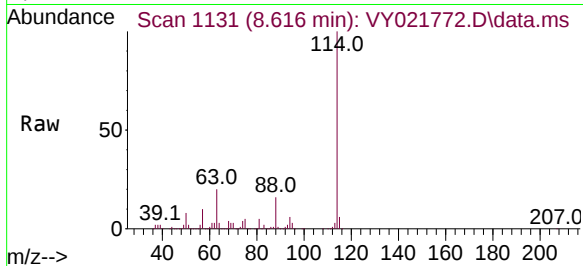




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

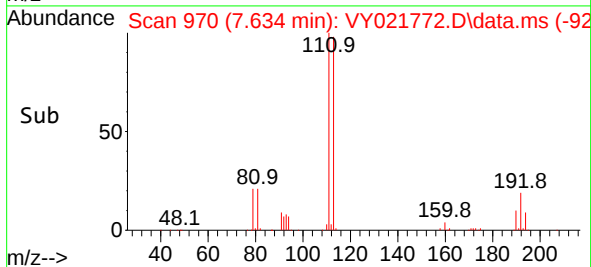
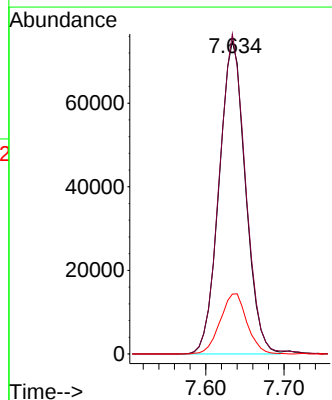
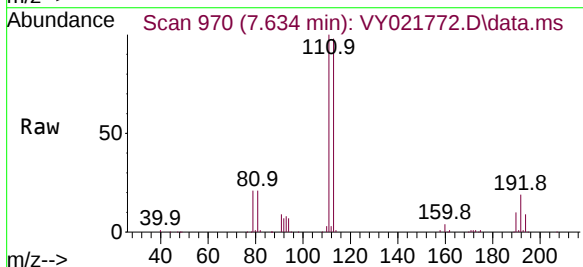
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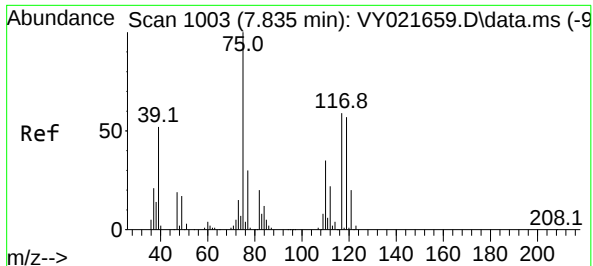
Tgt Ion:114 Resp: 535210  
Ion Ratio Lower Upper  
114 100  
63 19.9 0.0 40.2  
88 15.5 0.0 29.8



#35  
Dibromofluoromethane  
Concen: 50.296 ug/l  
RT: 7.634 min Scan# 970  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

Tgt Ion:113 Resp: 174618  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.6 123.8  
192 19.6 16.2 24.4





#36

1,1-Dichloropropene

Concen: 4.357 ug/l

RT: 7.707 min Scan# 9

Delta R.T. -0.128 min

Lab File: VY021772.D

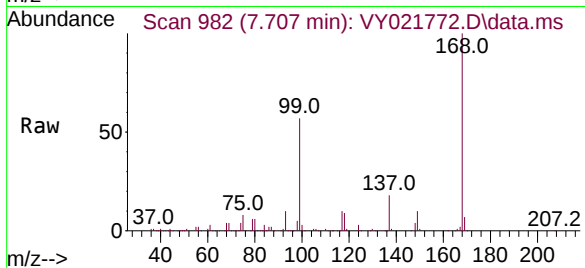
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Instrument :

MSVOA\_Y

ClientSampleId :

PL-02-040225



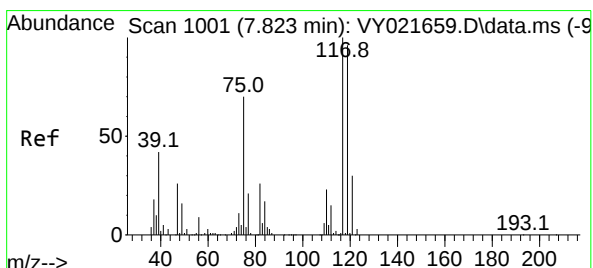
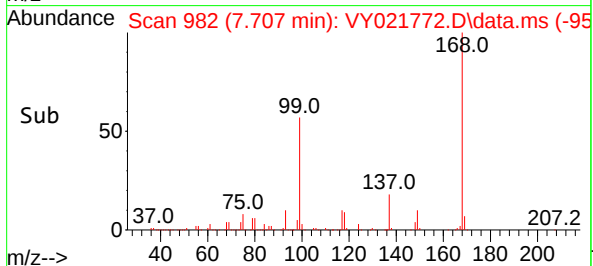
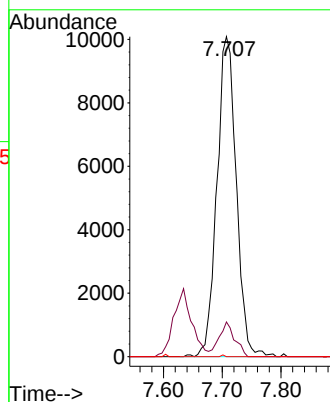
Tgt Ion: 75 Resp: 23043

Ion Ratio Lower Upper

75 100

110 8.8 17.0 50.9#

77 0.1 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.673 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY021772.D

Acq: 03 Apr 2025 14:43

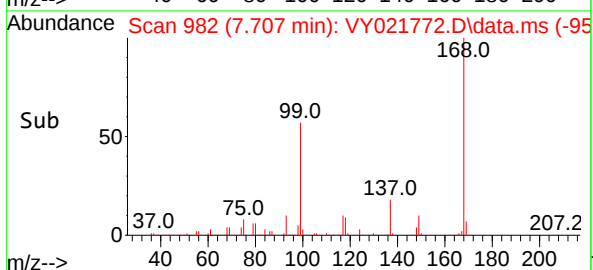
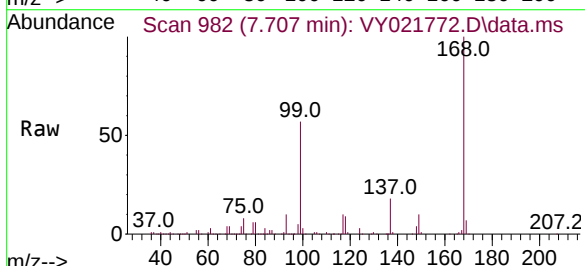
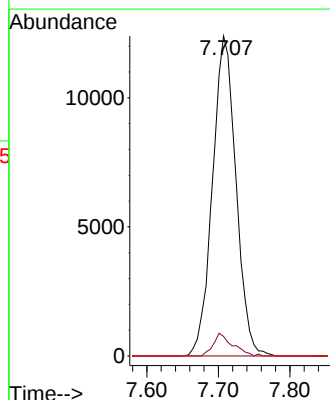
Tgt Ion:117 Resp: 28305

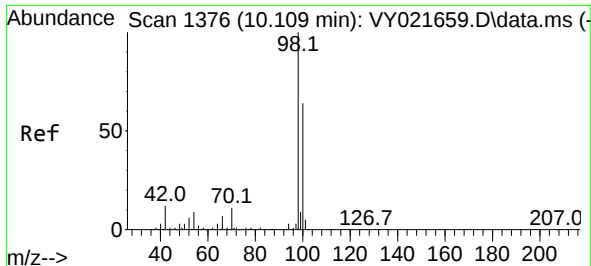
Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.4#

121 0.0 24.2 36.4#

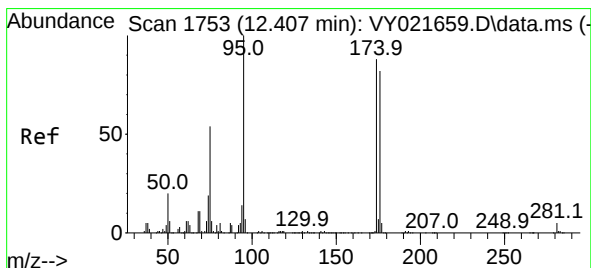
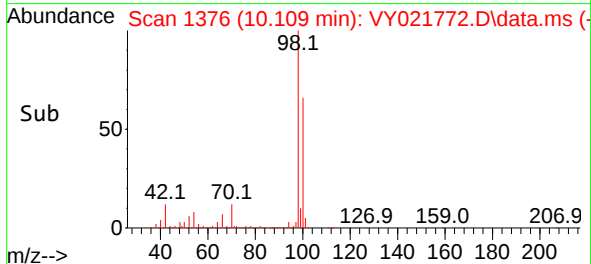
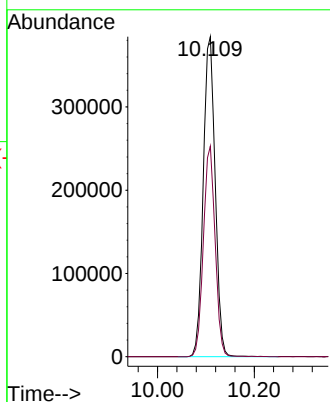
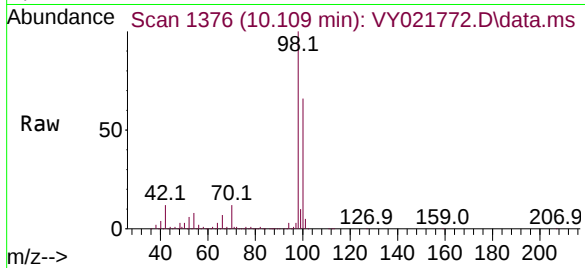




#50  
Toluene-d8  
Concen: 49.779 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

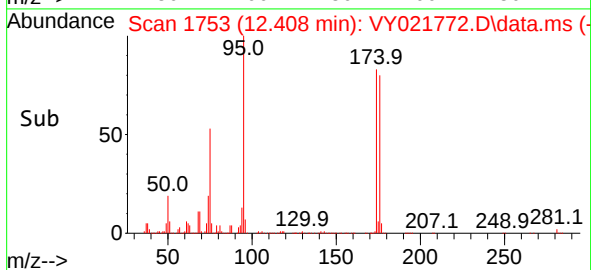
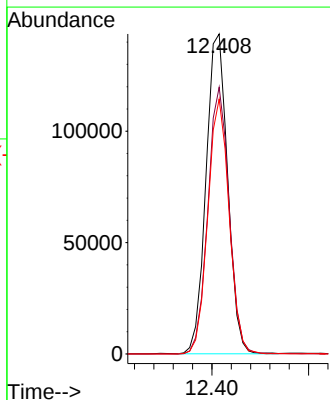
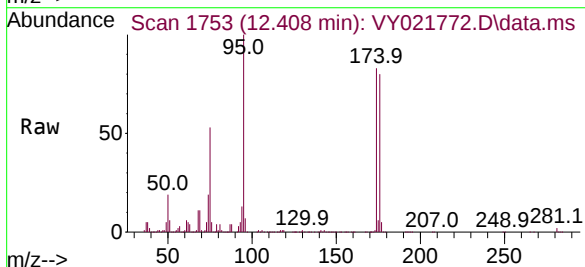
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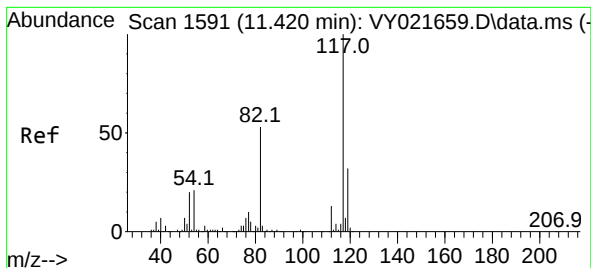
Tgt Ion: 98 Resp: 657467  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 49.905 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

Tgt Ion: 95 Resp: 222952  
Ion Ratio Lower Upper  
95 100  
174 82.3 0.0 170.8  
176 78.4 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021772.D

Acq: 03 Apr 2025 14:43

Instrument :

MSVOA\_Y

ClientSampleId :

PL-02-040225

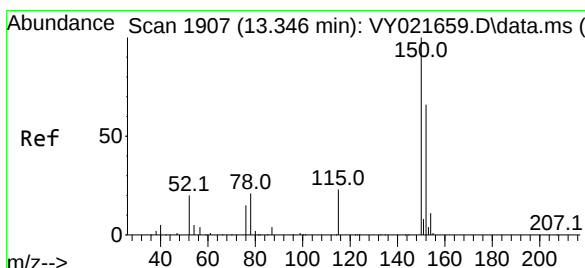
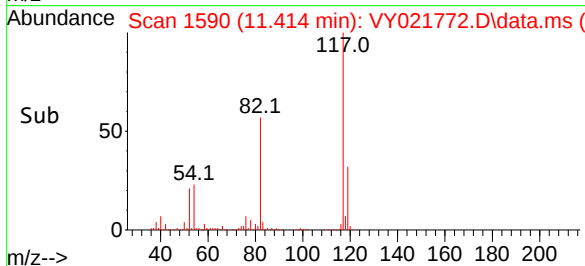
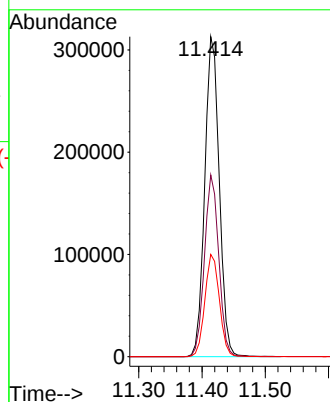
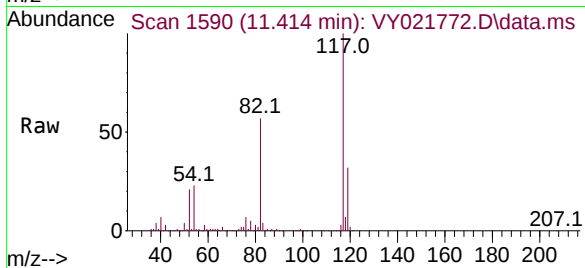
Tgt Ion:117 Resp: 500335

Ion Ratio Lower Upper

117 100

82 56.8 42.8 64.2

119 31.9 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021772.D

Acq: 03 Apr 2025 14:43

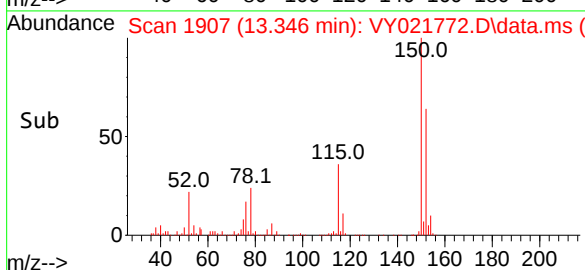
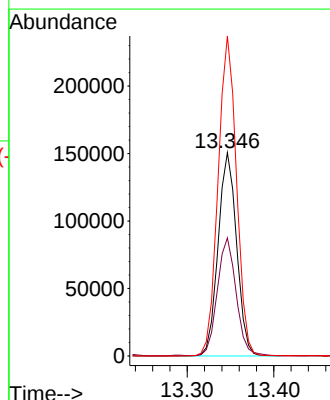
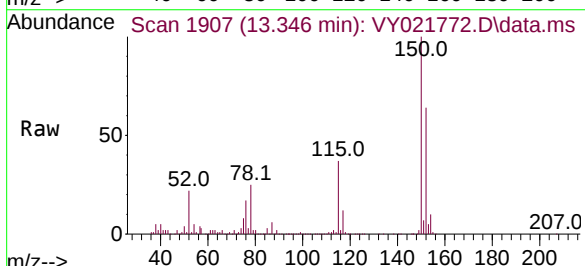
Tgt Ion:152 Resp: 223380

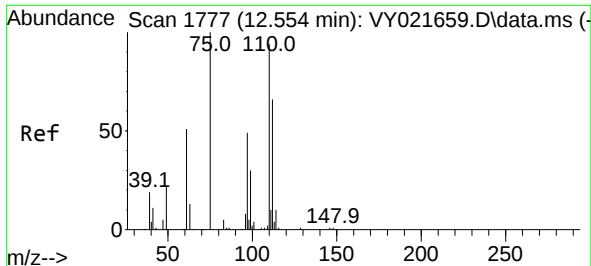
Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 156.7 0.0 348.4

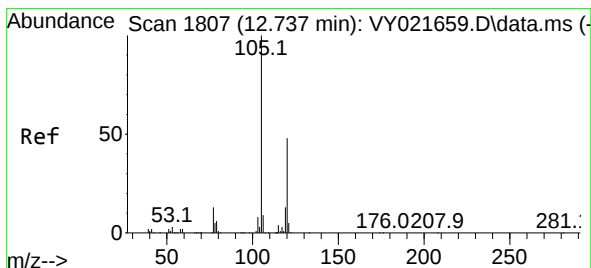
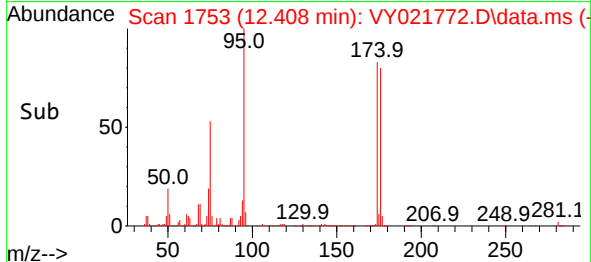
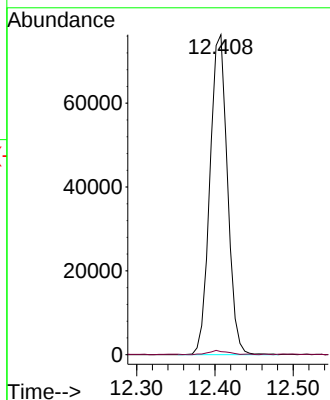
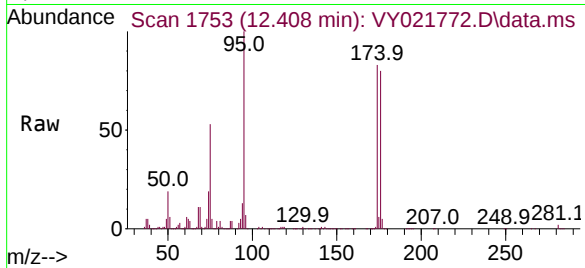




#76  
 1,2,3-Trichloropropane  
 Concen: 53.540 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. -0.146 min  
 Lab File: VY021772.D  
 Acq: 03 Apr 2025 14:43

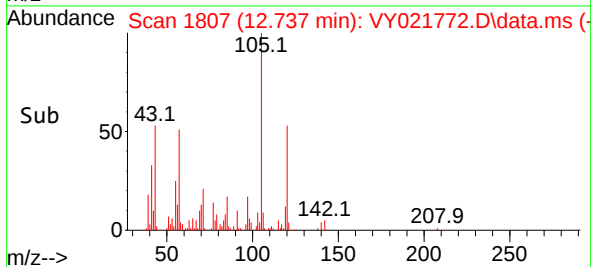
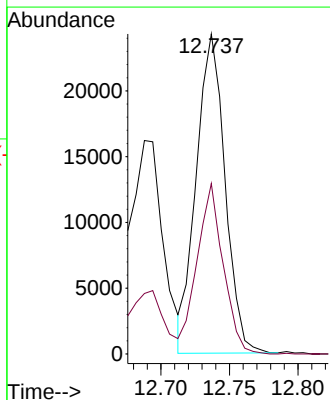
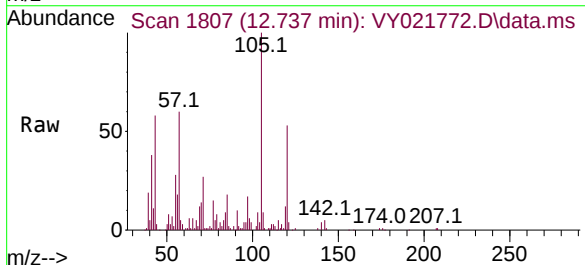
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PL-02-040225

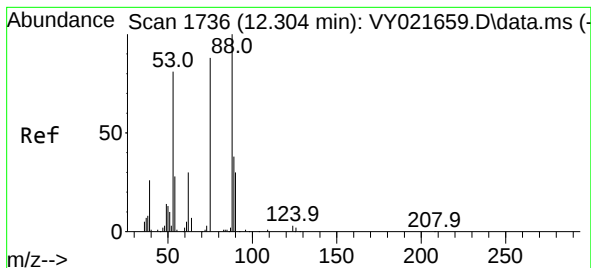
Tgt Ion: 75 Resp: 118553  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.611 ug/l  
 RT: 12.737 min Scan# 1807  
 Delta R.T. 0.000 min  
 Lab File: VY021772.D  
 Acq: 03 Apr 2025 14:43

Tgt Ion: 105 Resp: 35411  
 Ion Ratio Lower Upper  
 105 100  
 120 48.5 24.5 73.5

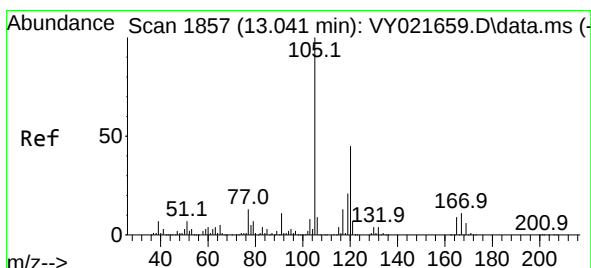
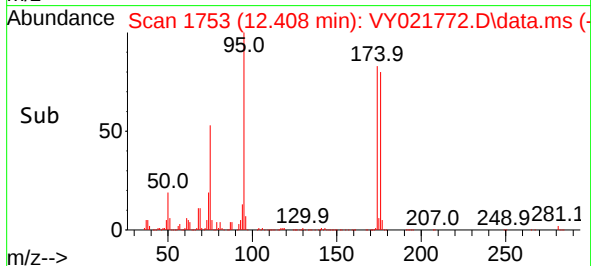
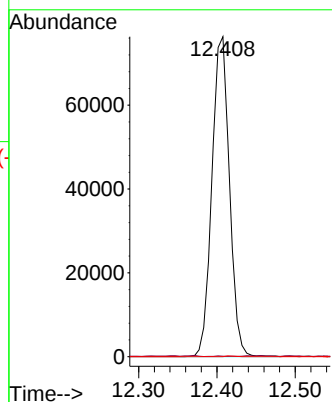
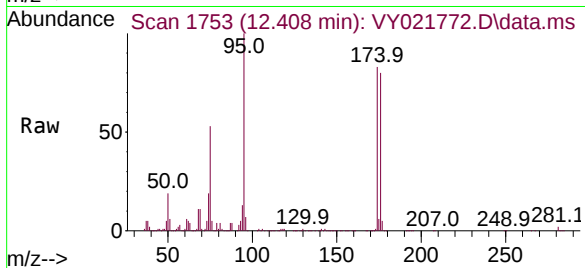




#81  
trans-1,4-Dichloro-2-butene  
Concen: 123.366 ug/l  
RT: 12.408 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

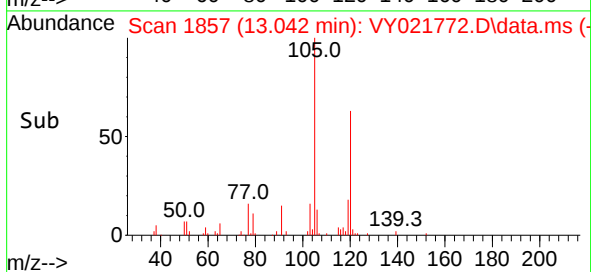
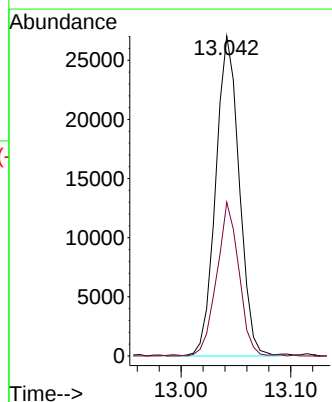
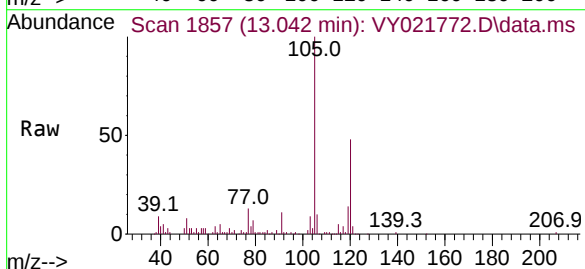
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PL-02-040225

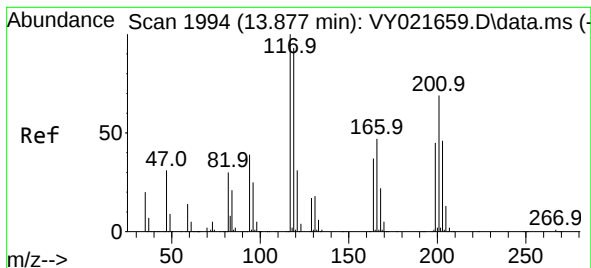
Tgt Ion: 75 Resp: 118553  
Ion Ratio Lower Upper  
75 100  
53 0.1 76.1 114.1#  
89 0.1 36.2 54.4#



#84  
1,2,4-Trimethylbenzene  
Concen: 3.014 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY021772.D  
Acq: 03 Apr 2025 14:43

Tgt Ion: 105 Resp: 40394  
Ion Ratio Lower Upper  
105 100  
120 45.3 22.7 68.1





#90

Hexachloroethane

Concen: 1.527 ug/l

RT: 13.889 min Scan# 1994

Delta R.T. 0.012 min

Lab File: VY021772.D

Acq: 03 Apr 2025 14:43

Instrument :

MSVOA\_Y

ClientSampleId :

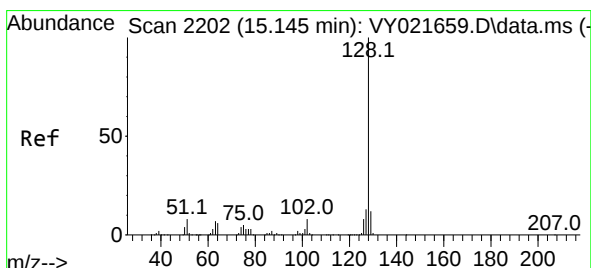
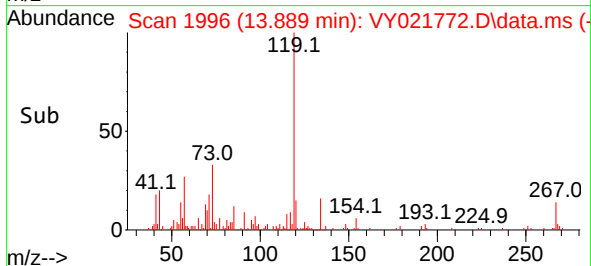
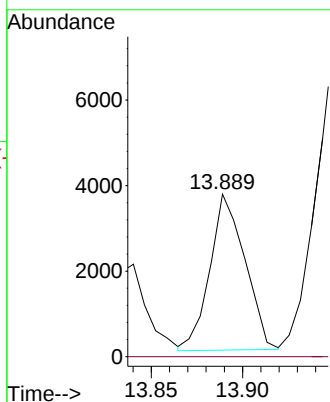
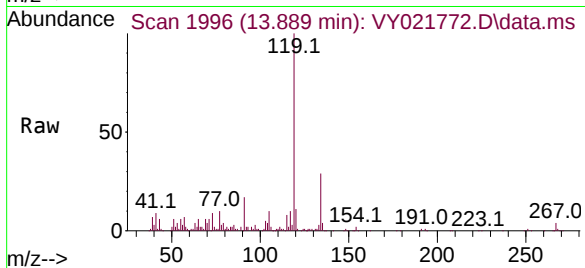
PL-02-040225

Tgt Ion:117 Resp: 4880

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.1#



#95

Naphthalene

Concen: 1.004 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY021772.D

Acq: 03 Apr 2025 14:43

Tgt Ion:128 Resp: 6166

Ion Ratio Lower Upper

128 100

127 20.0 10.8 16.2#

129 11.0 8.8 13.2

