

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101824\  
 Data File : VX043429.D  
 Acq On : 18 Oct 2024 13:14  
 Operator : JC/MD  
 Sample : VIBLK  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 18 23:18:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

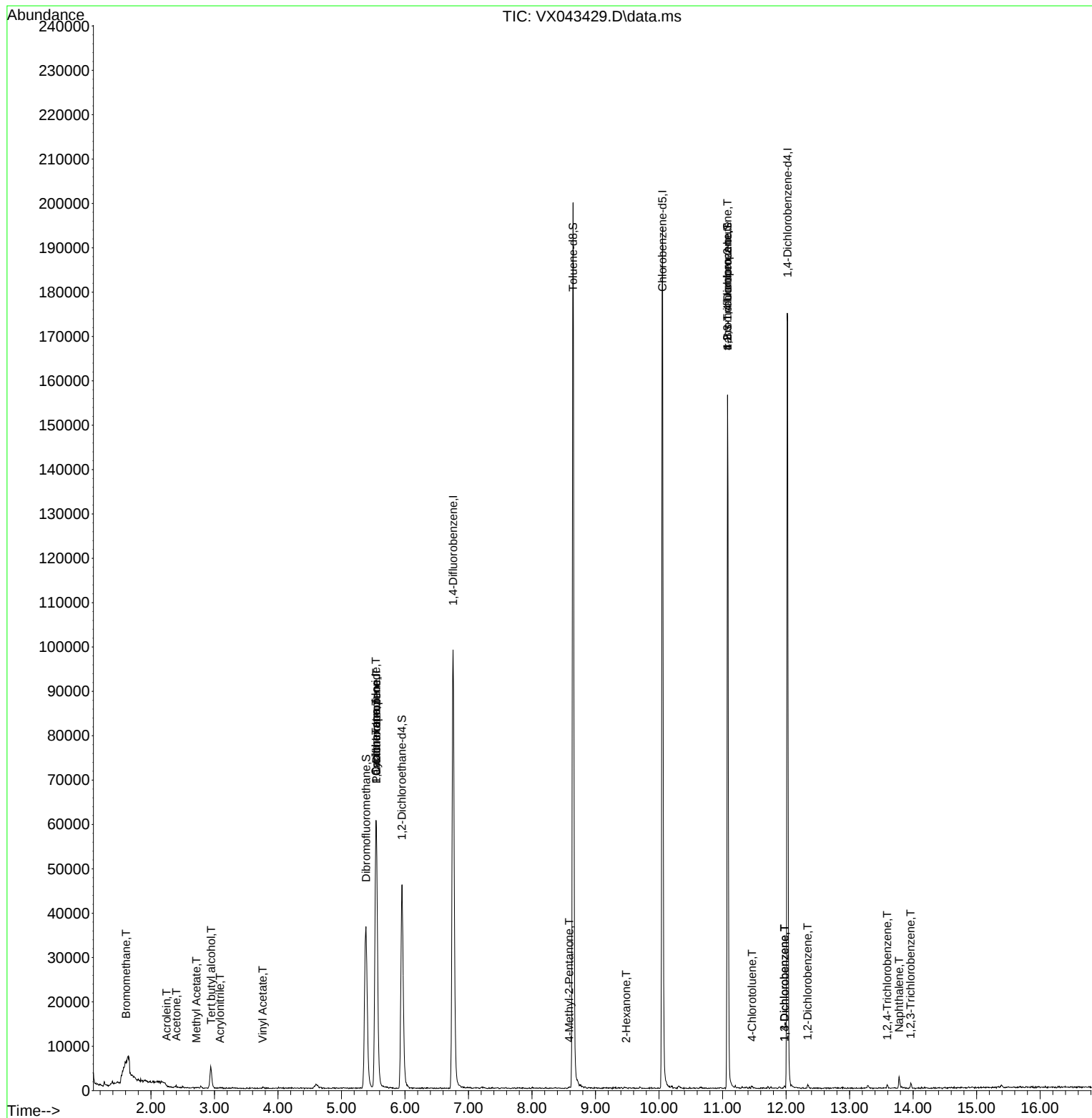
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 55448    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 100574   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 87554    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 36554    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 46430    | 51.273   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 102.540% |
| 35) Dibromofluoromethane      | 5.385  | 113   | 33083    | 47.698   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 95.400%  |
| 50) Toluene-d8                | 8.646  | 98    | 119393   | 49.672   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 99.340%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 42138    | 48.256   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 96.520%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.605  | 94    | 122      | 0.449    | ug/l # | 2        |
| 11) Tert butyl alcohol        | 2.946  | 59    | 2600     | 15.088   | ug/l # | 71       |
| 13) Acrolein                  | 2.245  | 56    | 91       | 0.559    | ug/l # | 79       |
| 15) Acrylonitrile             | 3.087  | 53    | 109      | 0.310    | ug/l # | 16       |
| 16) Acetone                   | 2.398  | 43    | 489      | 1.293    | ug/l   | 90       |
| 18) Methyl Acetate            | 2.715  | 43    | 213      | 0.225    | ug/l # | 51       |
| 23) Vinyl Acetate             | 3.757  | 43    | 187      | 6.421    | ug/l # | 71       |
| 31) Cyclohexane               | 5.543  | 56    | 1309     | 1.340    | ug/l # | 50       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 4710     | 5.375    | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.543  | 117   | 6244     | 6.019    | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.586  | 43    | 333      | 0.315    | ug/l # | 68       |
| 59) 2-Hexanone                | 9.482  | 43    | 231      | 0.289    | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 23369    | 28.822   | ug/l # | 33       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 23369    | 74.696   | ug/l # | 8        |
| 82) 4-Chlorotoluene           | 11.463 | 91    | 495      | 0.217    | ug/l # | 61       |
| 87) 1,3-Dichlorobenzene       | 11.975 | 146   | 273      | 0.224    | ug/l   | 82       |
| 88) 1,4-Dichlorobenzene       | 11.975 | 146   | 273      | 0.217    | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene       | 12.341 | 146   | 326      | 0.262    | ug/l # | 62       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 410      | 0.571    | ug/l # | 15       |
| 95) Naphthalene               | 13.780 | 128   | 2419     | 0.916    | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 418      | 0.564    | ug/l   | 82       |
| -----                         |        |       |          |          |        |          |

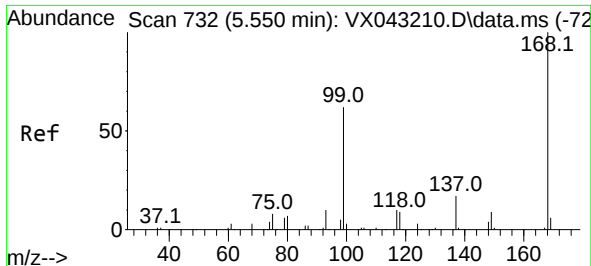
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 16:50:57 2024  
Response via : Initial Calibration



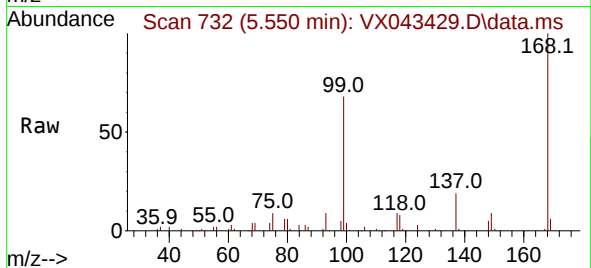


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

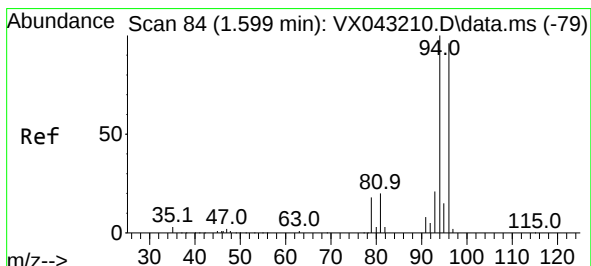
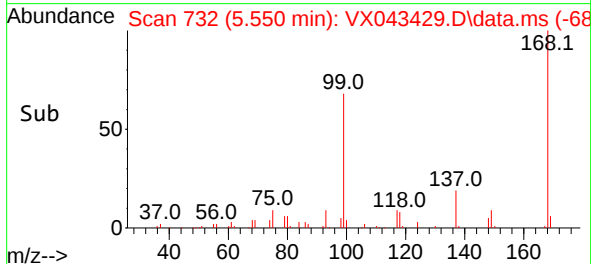
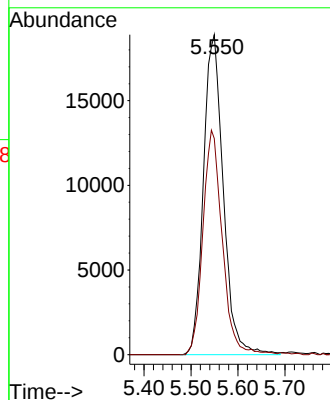
Instrument :

MSVOA\_X

ClientSampleId :

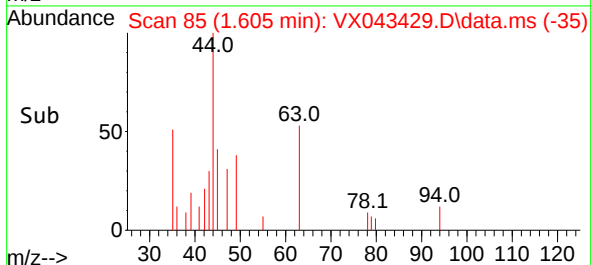
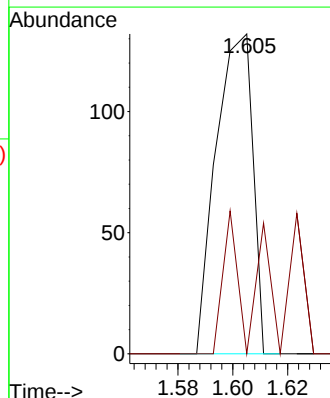
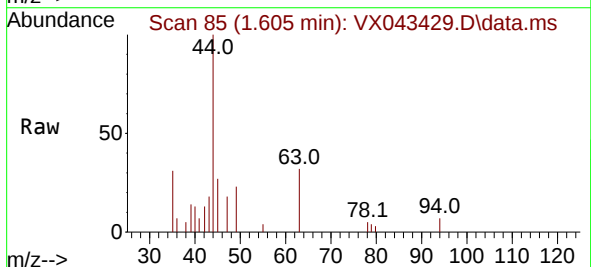


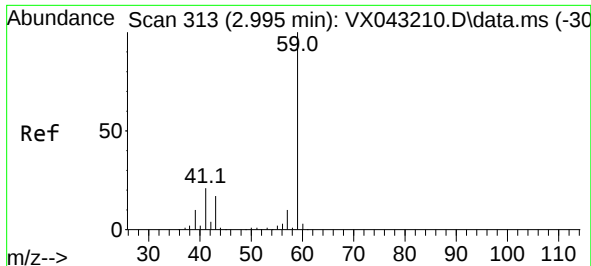
Tgt Ion:168 Resp: 55448  
Ion Ratio Lower Upper  
168 100  
99 67.6 49.7 74.5



#5  
Bromomethane  
Concen: 0.449 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Tgt Ion: 94 Resp: 122  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.6 115.0#





#11

Tert butyl alcohol

Concen: 15.088 ug/l

RT: 2.946 min Scan# 30

Delta R.T. -0.049 min

Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

Instrument :

MSVOA\_X

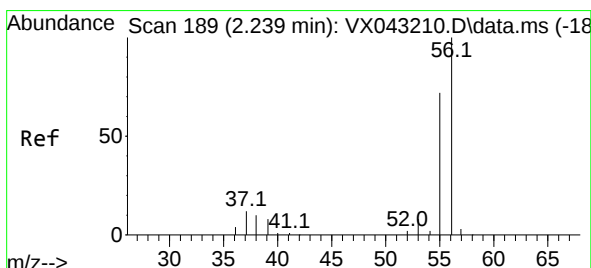
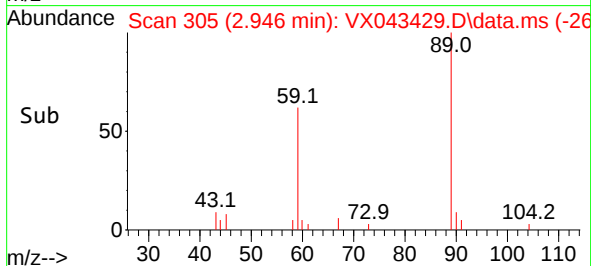
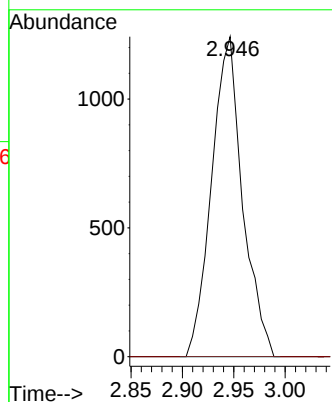
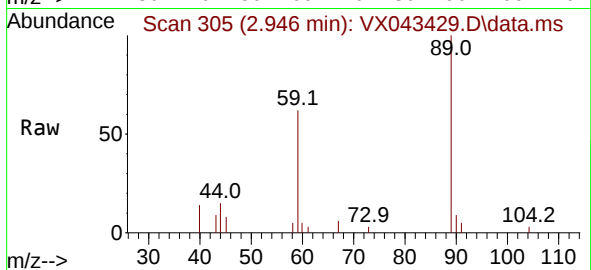
ClientSampleId :

Tgt Ion: 59 Resp: 2600

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#13

Acrolein

Concen: 0.559 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX043429.D

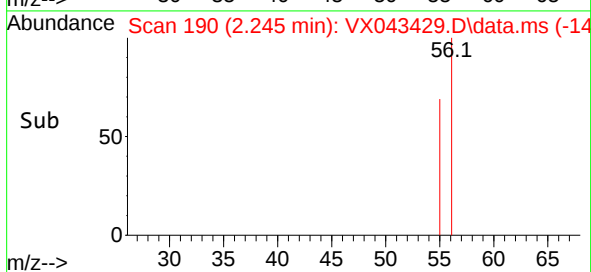
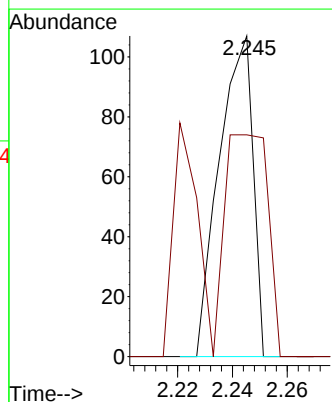
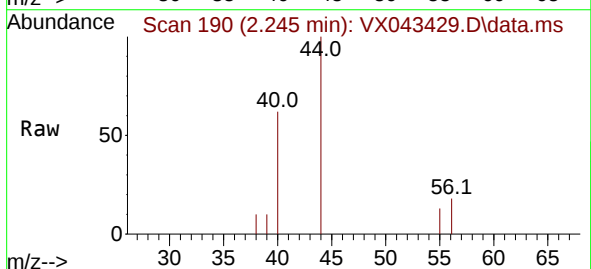
Acq: 18 Oct 2024 13:14

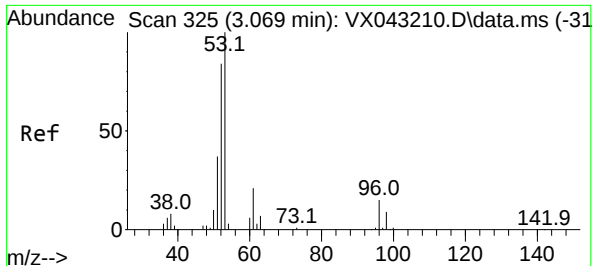
Tgt Ion: 56 Resp: 91

Ion Ratio Lower Upper

56 100

55 89.0 57.4 86.0#





#15

Acrylonitrile

Concen: 0.310 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.018 min

Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

Instrument :

MSVOA\_X

ClientSampleId :

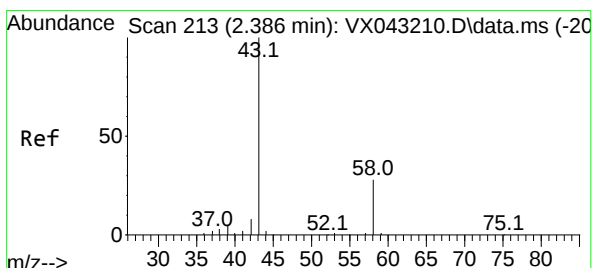
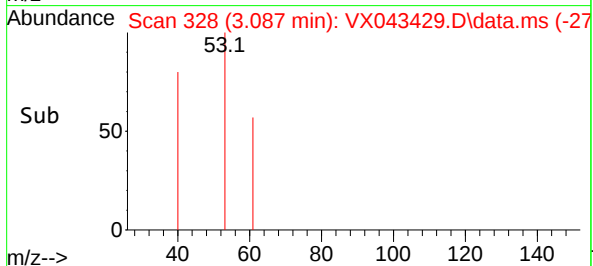
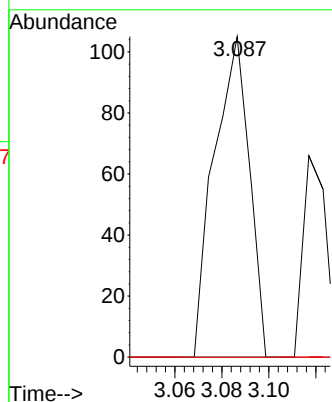
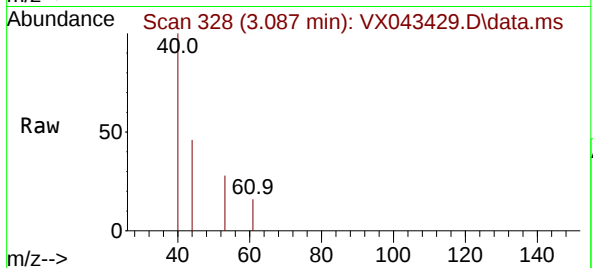
Tgt Ion: 53 Resp: 109

Ion Ratio Lower Upper

53 100

52 0.0 67.6 101.4#

51 0.0 30.3 45.5#



#16

Acetone

Concen: 1.293 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.012 min

Lab File: VX043429.D

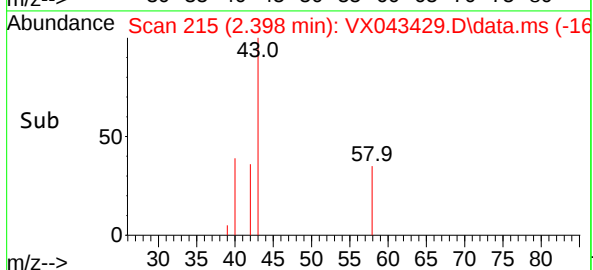
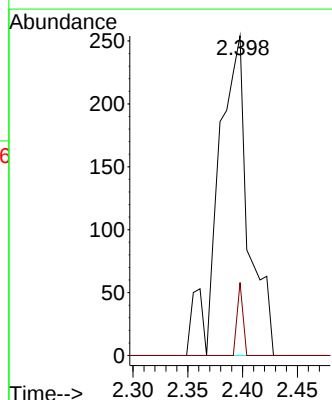
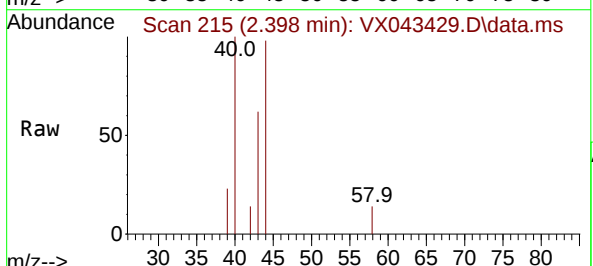
Acq: 18 Oct 2024 13:14

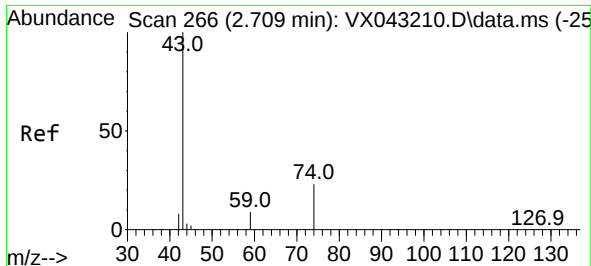
Tgt Ion: 43 Resp: 489

Ion Ratio Lower Upper

43 100

58 22.8 22.6 33.8





#18

Methyl Acetate

Concen: 0.225 ug/l

RT: 2.715 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

Instrument :

MSVOA\_X

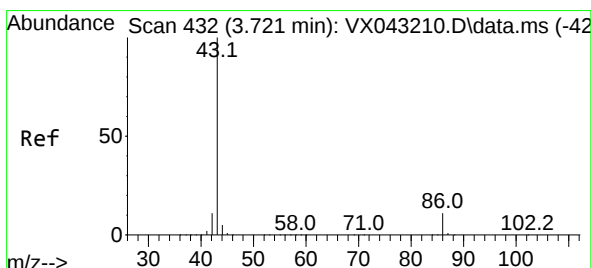
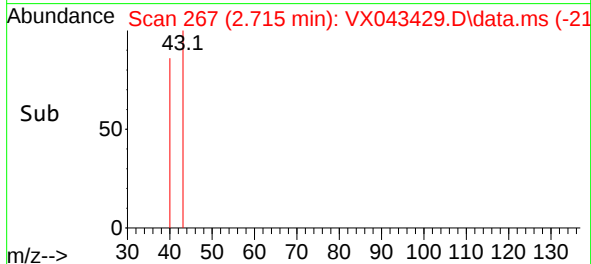
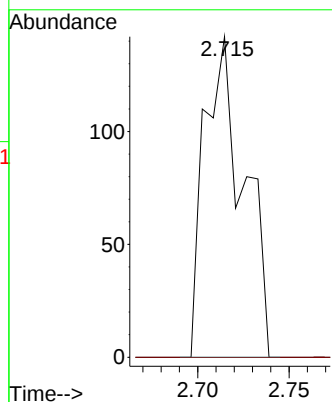
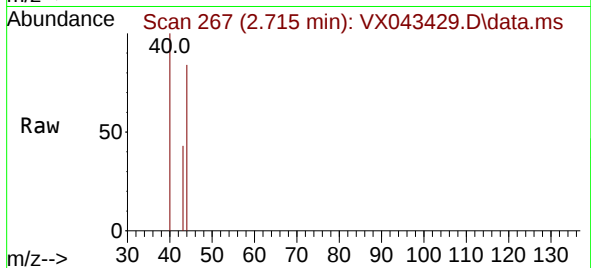
ClientSampleId :

Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

43 100

74 0.0 19.1 28.7#



#23

Vinyl Acetate

Concen: 6.421 ug/l

RT: 3.757 min Scan# 438

Delta R.T. 0.036 min

Lab File: VX043429.D

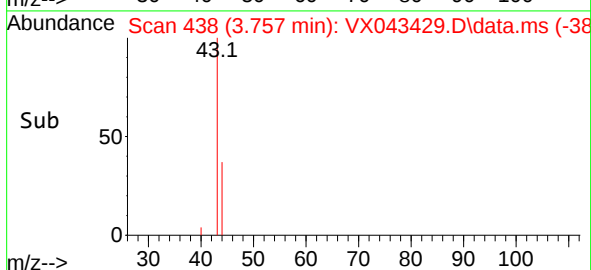
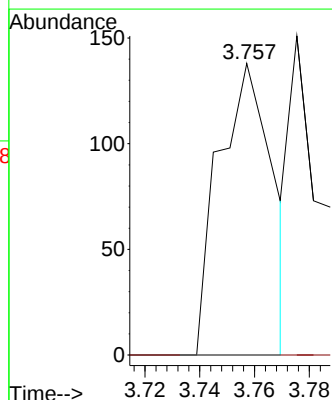
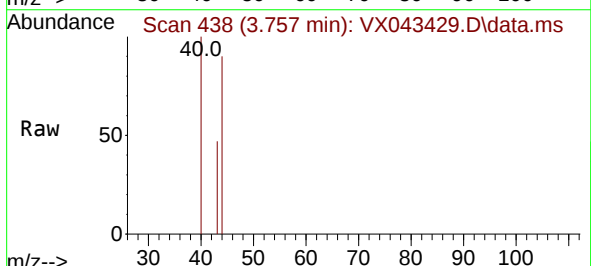
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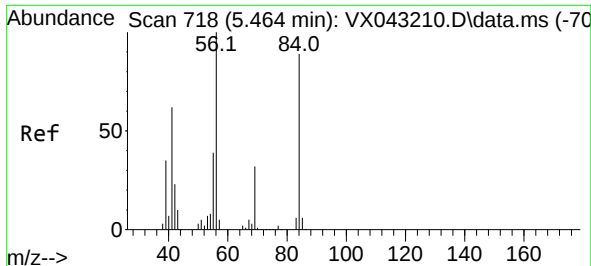
Tgt Ion: 43 Resp: 187

Ion Ratio Lower Upper

43 100

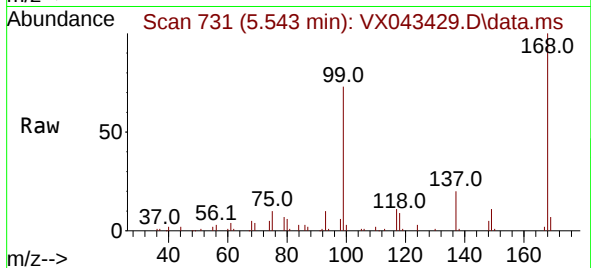
86 0.0 8.8 13.2#



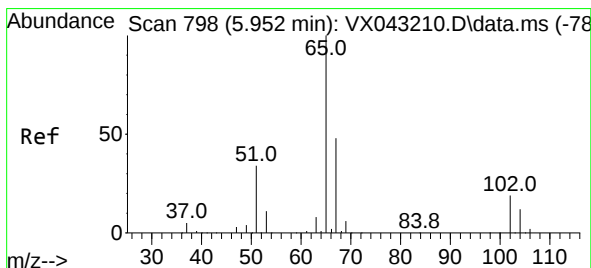
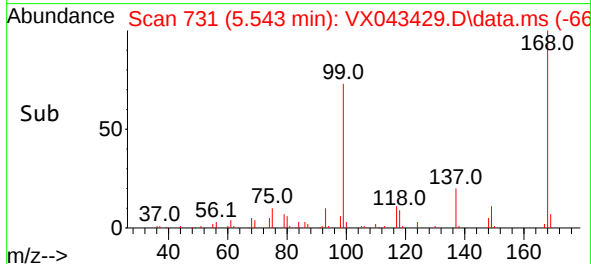
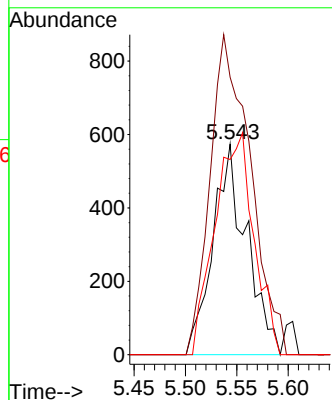


#31  
Cyclohexane  
Concen: 1.340 ug/l  
RT: 5.543 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Instrument :  
MSVOA\_X  
ClientSampleId :

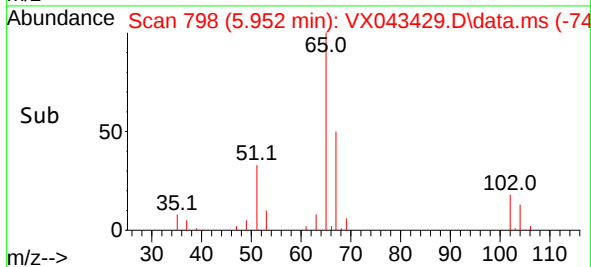
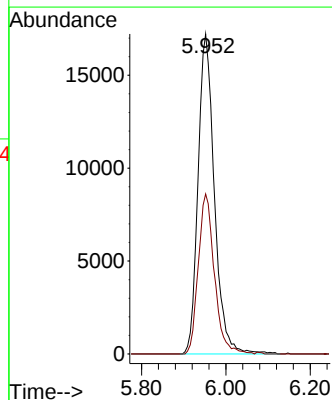
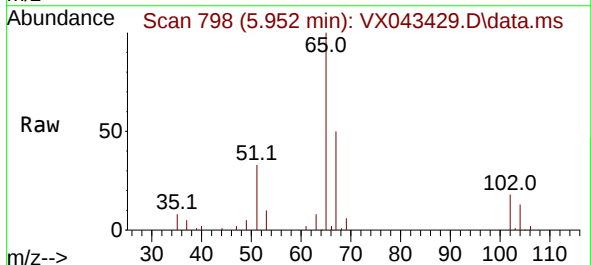


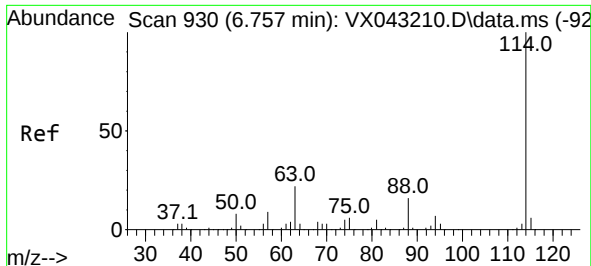
Tgt Ion: 56 Resp: 1309  
Ion Ratio Lower Upper  
56 100  
69 131.7 25.8 38.6#  
84 92.7 71.1 106.7



#33  
1,2-Dichloroethane-d4  
Concen: 51.273 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

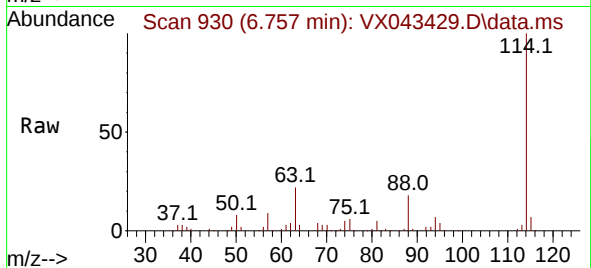
Tgt Ion: 65 Resp: 46430  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 99.0



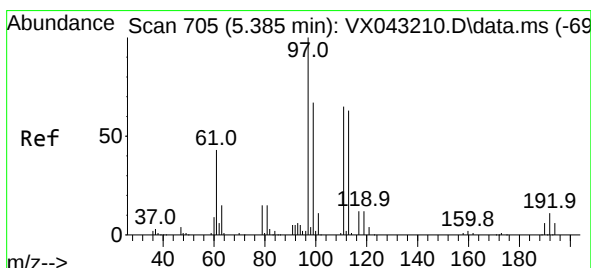
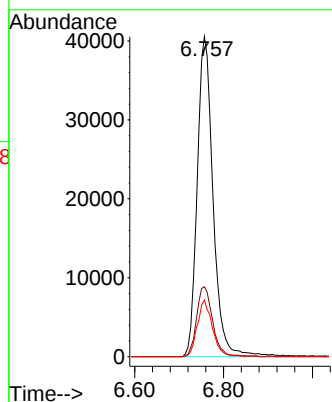
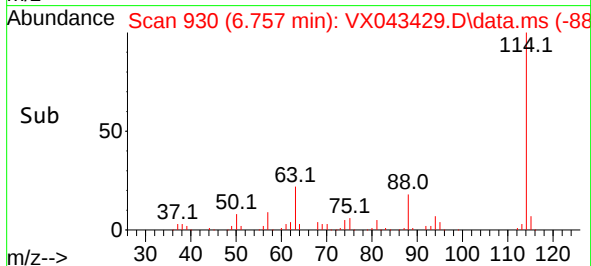


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

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ClientSampleId :

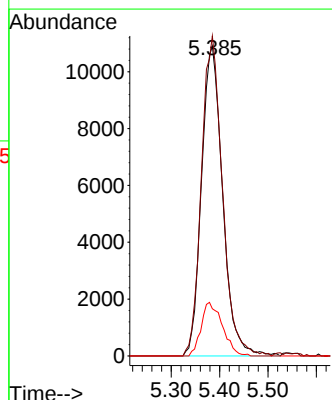
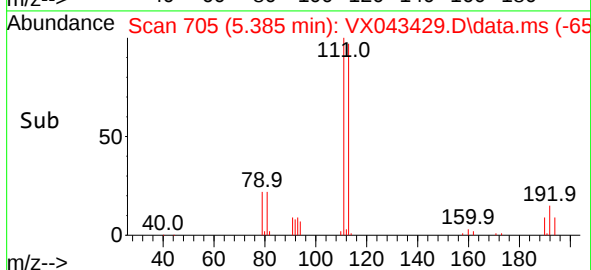
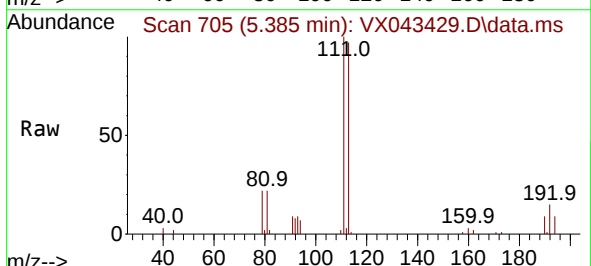


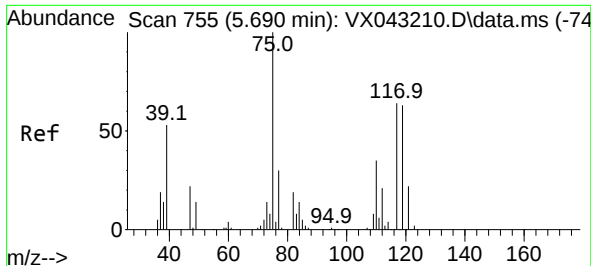
Tgt Ion:114 Resp: 100574  
Ion Ratio Lower Upper  
114 100  
63 21.8 0.0 43.0  
88 17.7 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 47.698 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

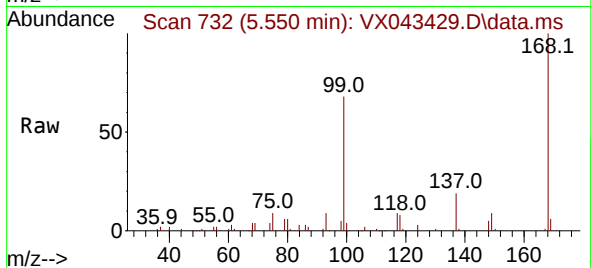
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Ion Ratio Lower Upper  
113 100  
111 102.5 83.4 125.0  
192 17.4 14.1 21.1



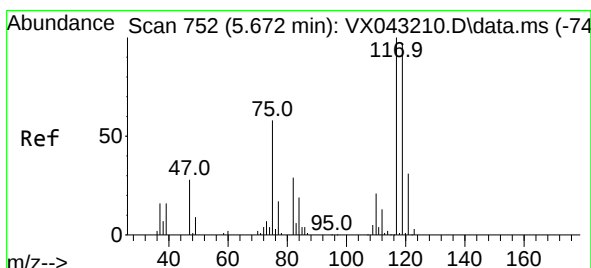
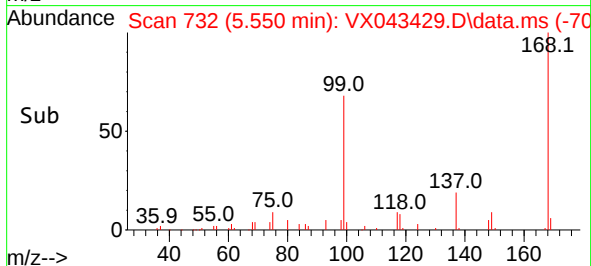
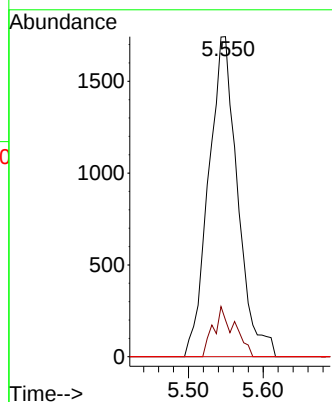


#36  
1,1-Dichloropropene  
Concen: 5.375 ug/l  
RT: 5.550 min Scan# 710  
Delta R.T. -0.141 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Instrument :  
MSVOA\_X  
ClientSampleId :

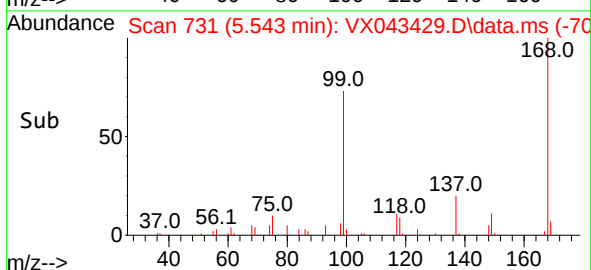
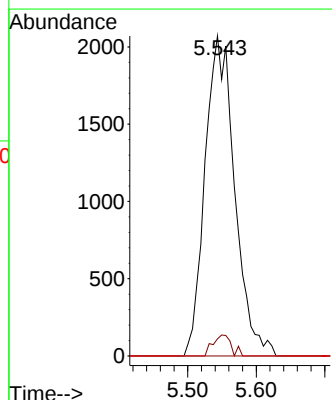
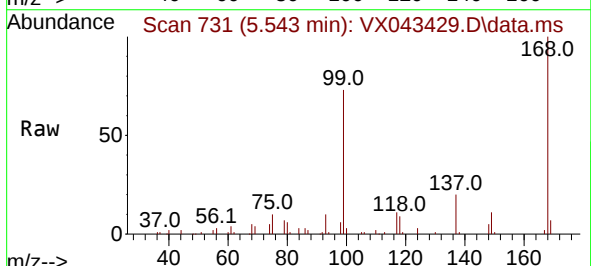


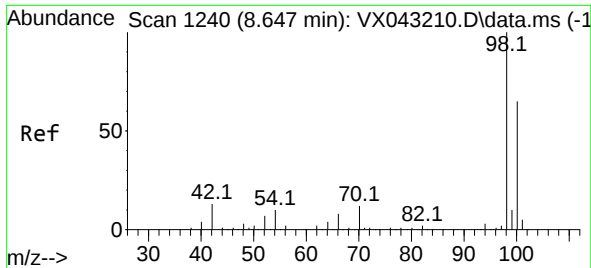
Tgt Ion: 75 Resp: 4710  
Ion Ratio Lower Upper  
75 100  
110 11.4 17.8 53.3#  
77 0.0 24.9 37.3#



#38  
Carbon Tetrachloride  
Concen: 6.019 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Tgt Ion: 117 Resp: 6244  
Ion Ratio Lower Upper  
117 100  
119 5.4 77.7 116.5#  
121 0.0 24.3 36.5#

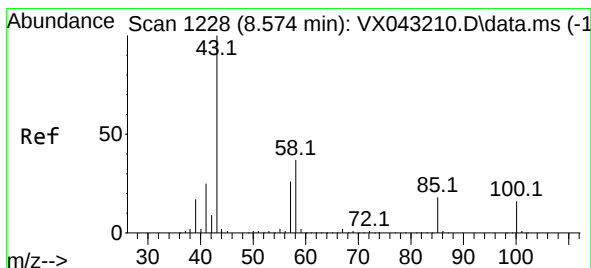
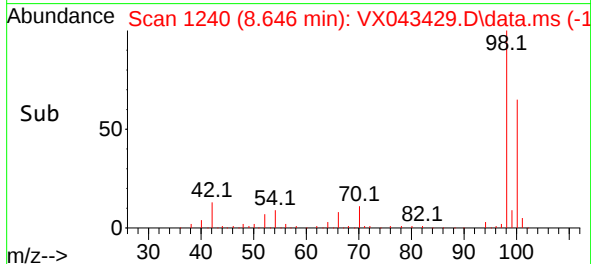
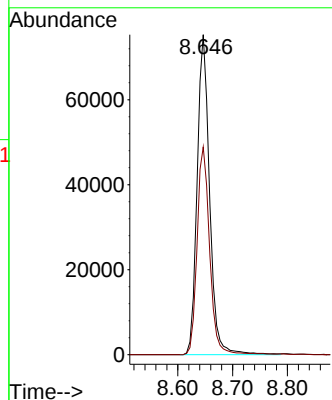
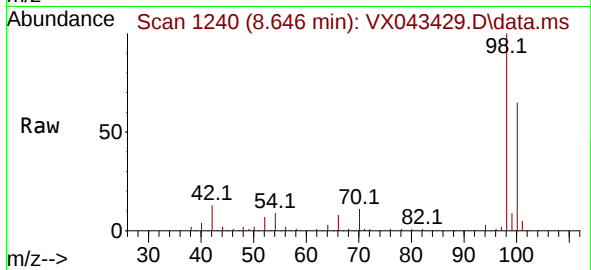




#50  
Toluene-d8  
Concen: 49.672 ug/l  
RT: 8.646 min Scan# 119393  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

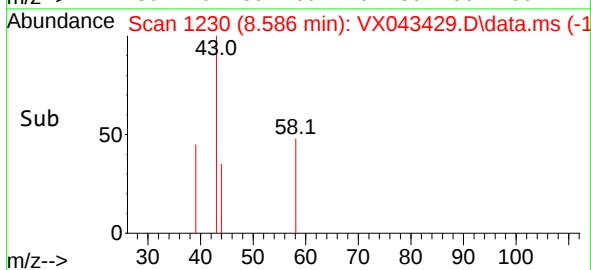
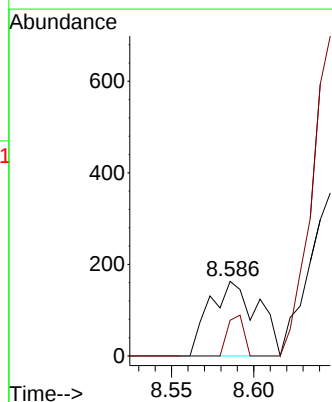
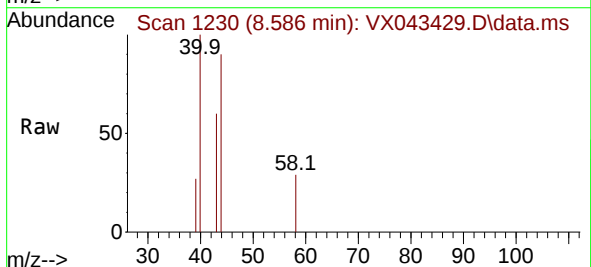
Instrument :  
MSVOA\_X  
ClientSampleId :

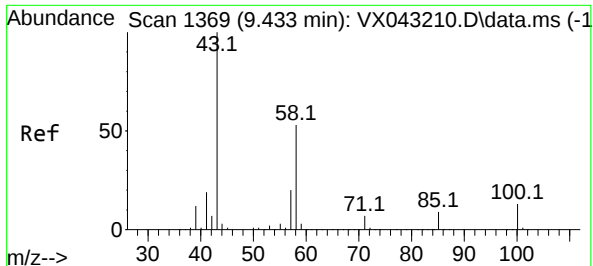
Tgt Ion: 98 Resp: 119393  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.4 78.6



#51  
4-Methyl-2-Pentanone  
Concen: 0.315 ug/l  
RT: 8.586 min Scan# 1230  
Delta R.T. 0.012 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Tgt Ion: 43 Resp: 333  
Ion Ratio Lower Upper  
43 100  
58 18.3 30.0 45.0#

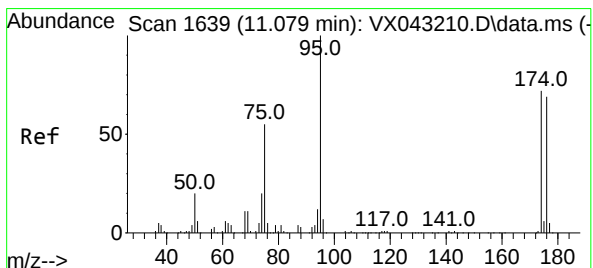
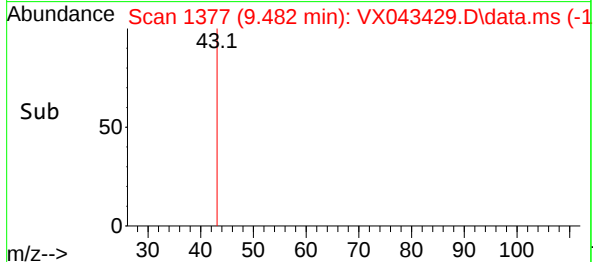
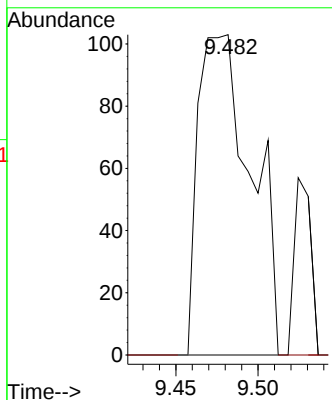
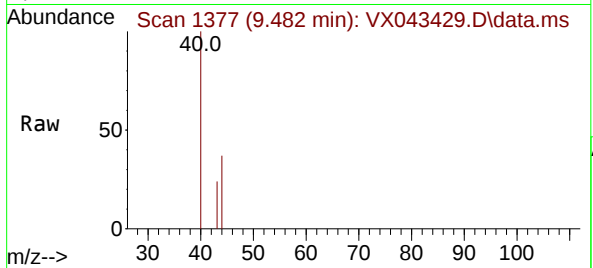




#59  
2-Hexanone  
Concen: 0.289 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.048 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

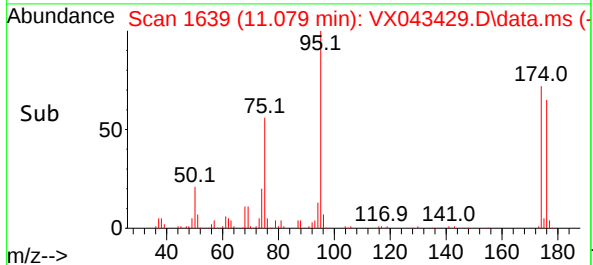
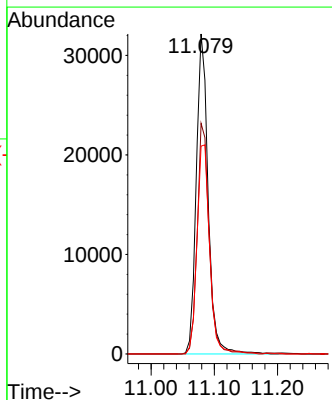
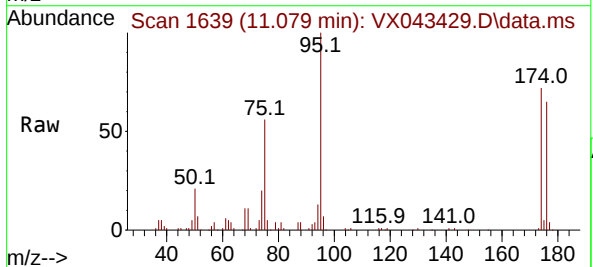
Instrument :  
MSVOA\_X  
ClientSampleId :

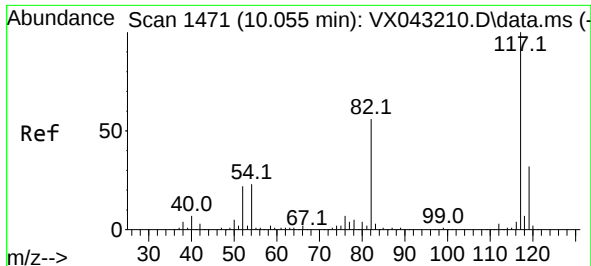
Tgt Ion: 43 Resp: 231  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.1 78.3#



#62  
4-Bromofluorobenzene  
Concen: 48.256 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Tgt Ion: 95 Resp: 42138  
Ion Ratio Lower Upper  
95 100  
174 72.3 0.0 145.0  
176 69.9 0.0 143.0

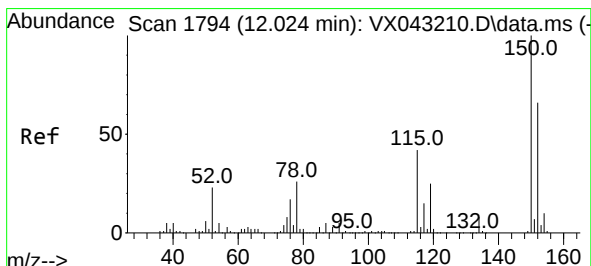
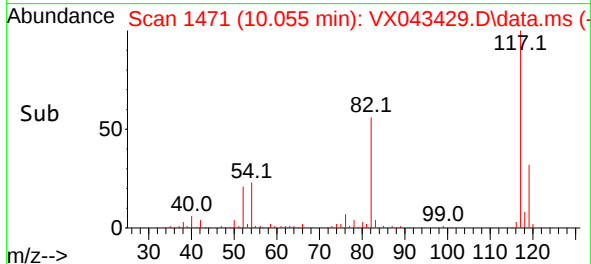
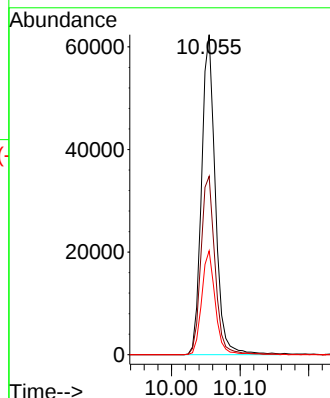
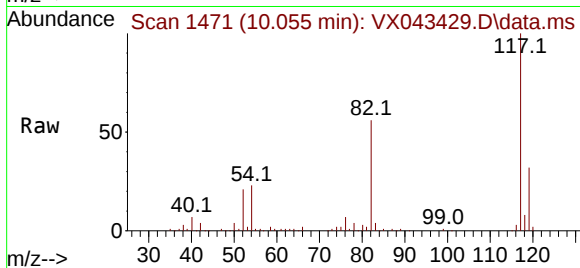




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

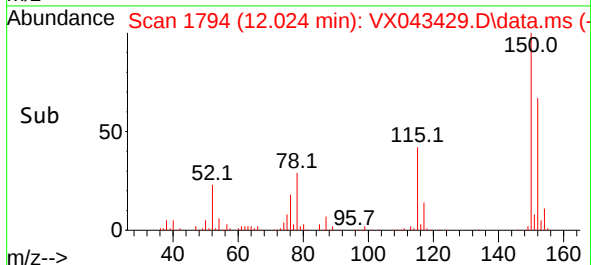
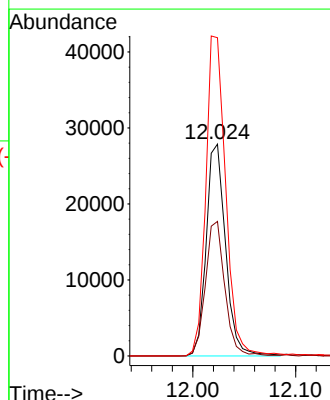
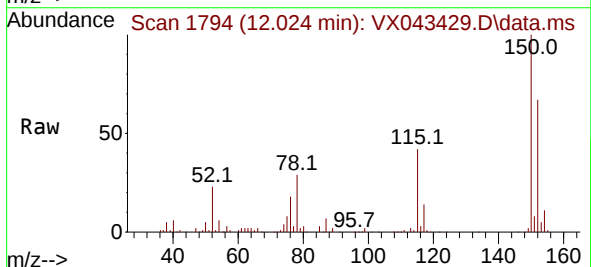
Instrument :  
MSVOA\_X  
ClientSampleId :

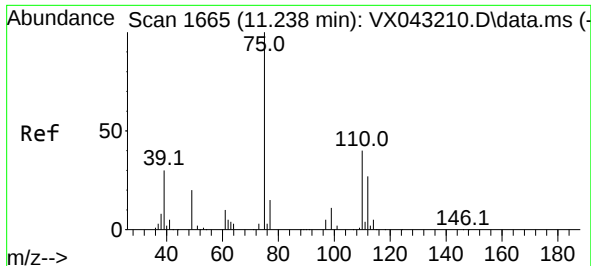
Tgt Ion:117 Resp: 87554  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.0 67.6  
119 32.4 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Tgt Ion:152 Resp: 36554  
Ion Ratio Lower Upper  
152 100  
115 63.8 44.1 132.3  
150 156.5 0.0 347.4

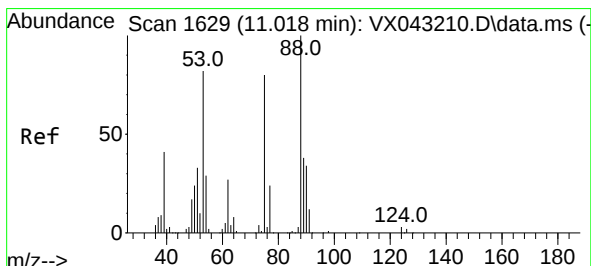
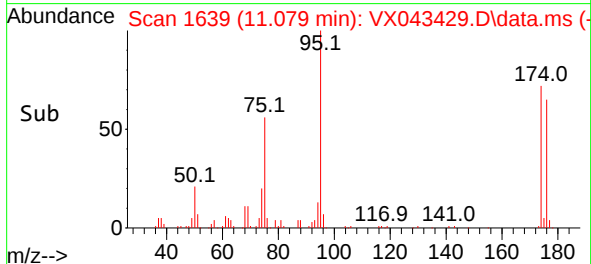
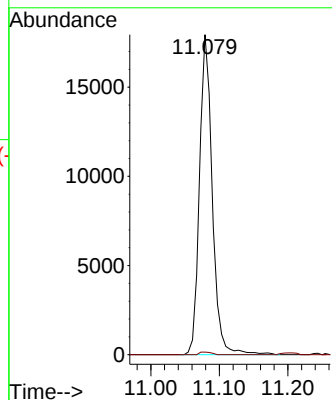
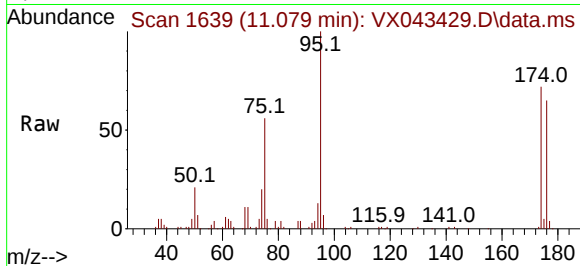




#76  
1,2,3-Trichloropropane  
Concen: 28.822 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

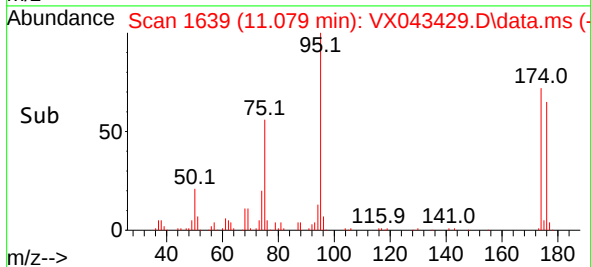
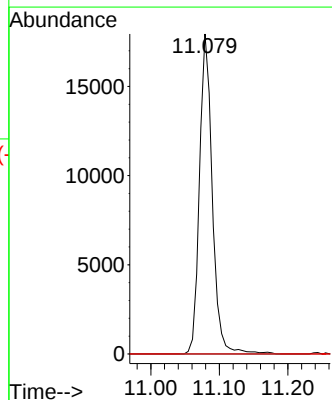
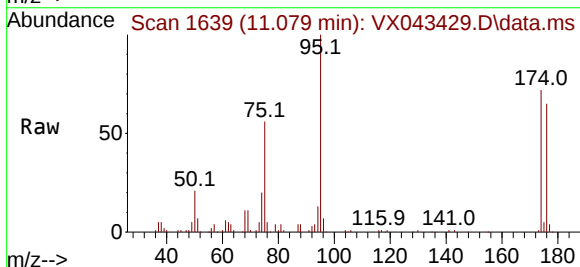
Instrument :  
MSVOA\_X  
ClientSampleId :

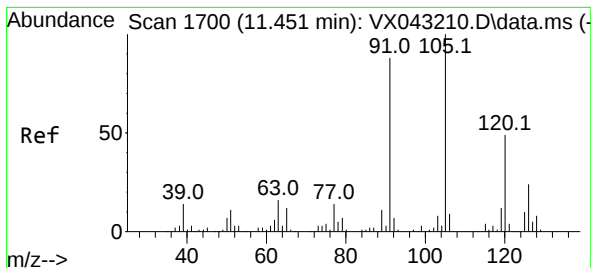
Tgt Ion: 75 Resp: 23369  
Ion Ratio Lower Upper  
75 100  
77 0.8 22.0 66.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.696 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

Tgt Ion: 75 Resp: 23369  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.9 125.9#  
89 0.0 38.6 58.0#





#82

4-Chlorotoluene

Concen: 0.217 ug/l

RT: 11.463 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

Instrument :

MSVOA\_X

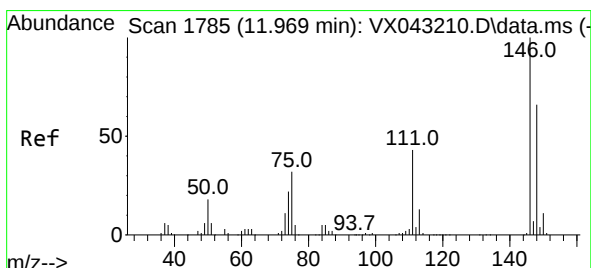
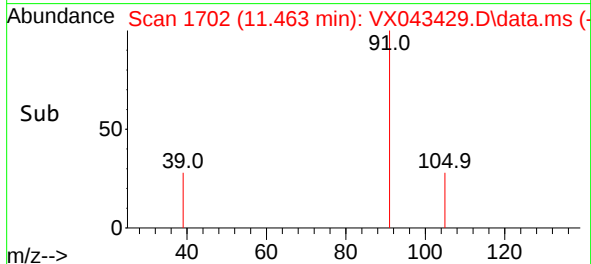
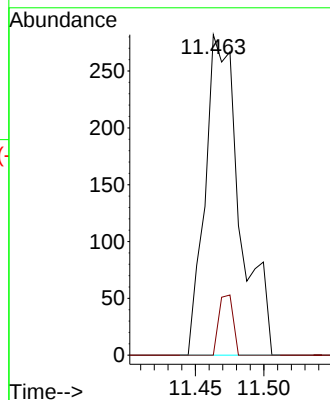
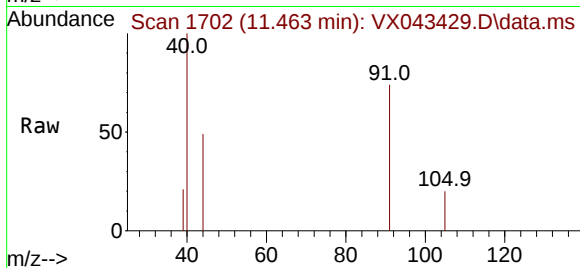
ClientSampleId :

Tgt Ion: 91 Resp: 495

Ion Ratio Lower Upper

91 100

126 7.7 14.1 42.3#



#87

1,3-Dichlorobenzene

Concen: 0.224 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

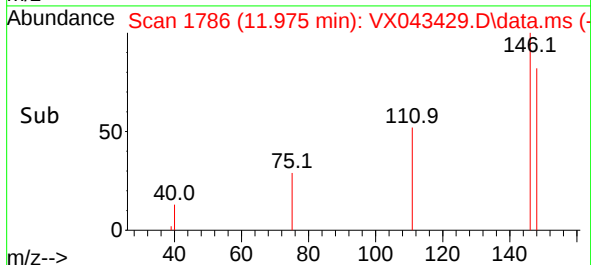
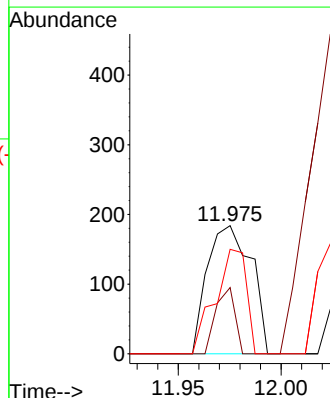
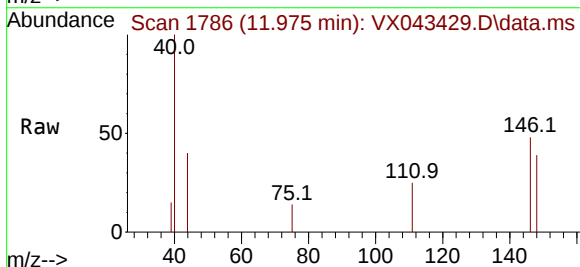
Tgt Ion:146 Resp: 273

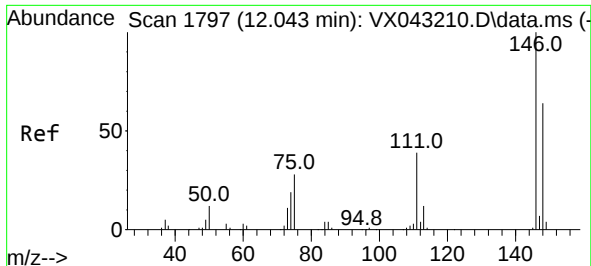
Ion Ratio Lower Upper

146 100

111 22.3 21.8 65.3

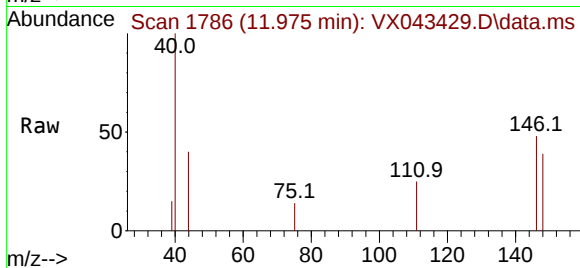
148 58.2 32.4 97.2



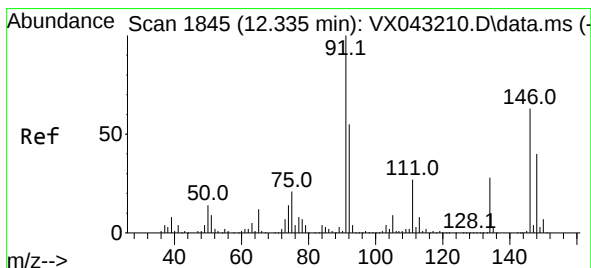
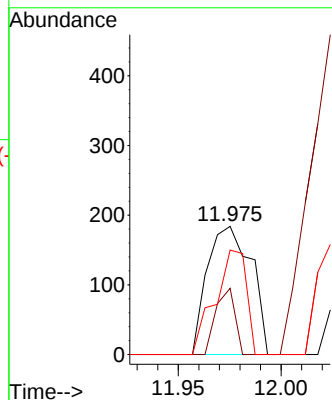
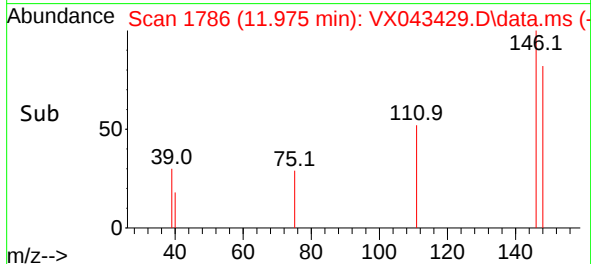


#88  
1,4-Dichlorobenzene  
Concen: 0.217 ug/l  
RT: 11.975 min Scan# 11  
Delta R.T. -0.067 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14

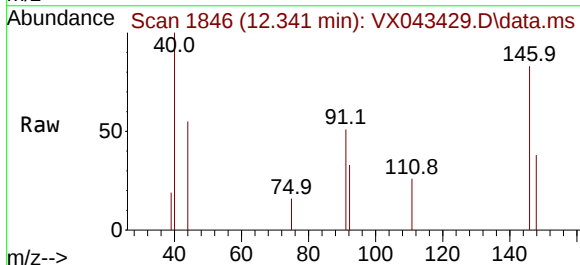
Instrument :  
MSVOA\_X  
ClientSampleId :



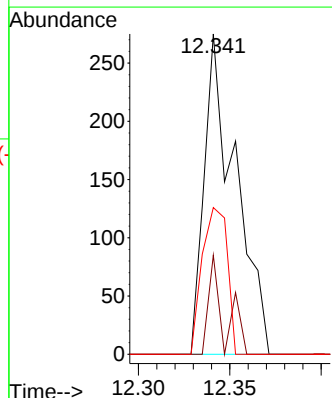
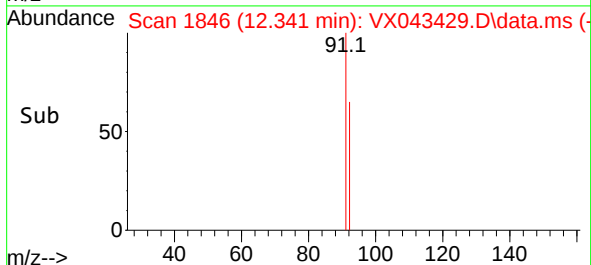
Tgt Ion:146 Resp: 273  
Ion Ratio Lower Upper  
146 100  
111 22.3 20.8 62.5  
148 58.2 32.4 97.0

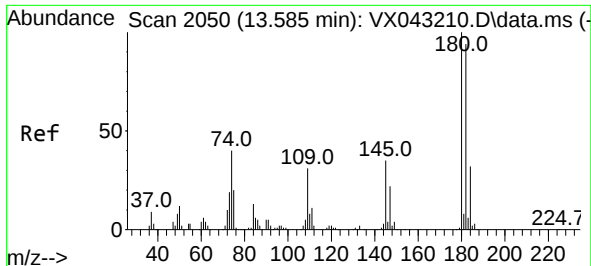


#91  
1,2-Dichlorobenzene  
Concen: 0.262 ug/l  
RT: 12.341 min Scan# 1846  
Delta R.T. 0.006 min  
Lab File: VX043429.D  
Acq: 18 Oct 2024 13:14



Tgt Ion:146 Resp: 326  
Ion Ratio Lower Upper  
146 100  
111 15.3 21.9 65.5#  
148 36.8 31.9 95.5





#93

1,2,4-Trichlorobenzene

Concen: 0.571 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

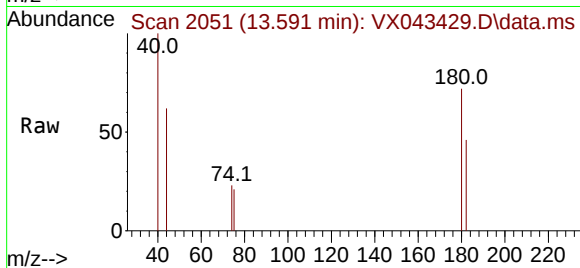
Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

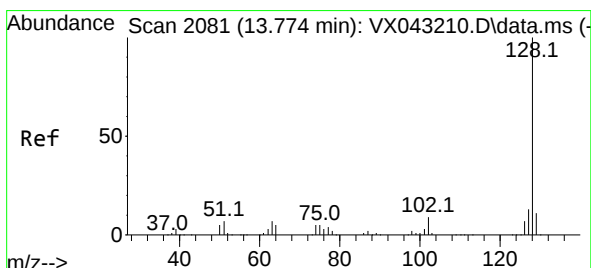
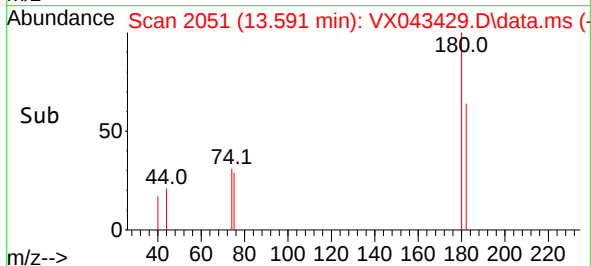
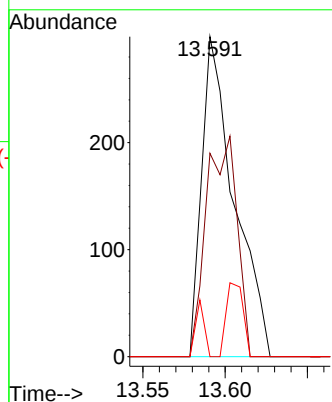
Instrument :

MSVOA\_X

ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 410         |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 0.0   | 47.1 141.3# |
| 145         | 4.6   | 16.6 49.8#  |



#95

Naphthalene

Concen: 0.916 ug/l

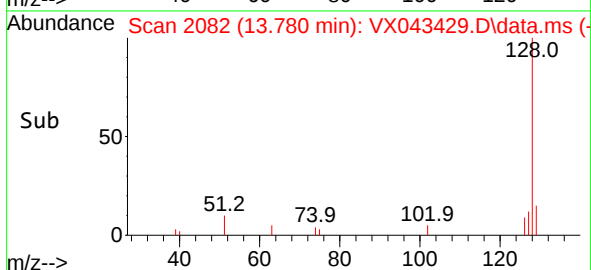
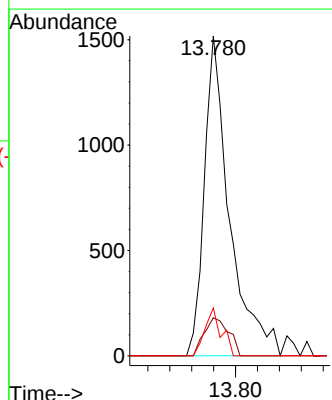
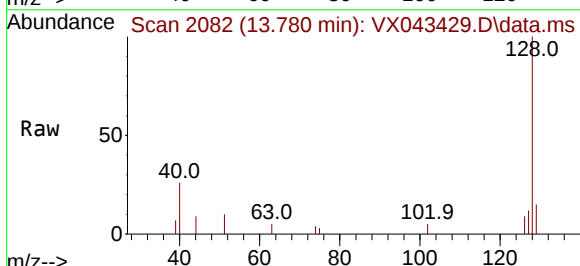
RT: 13.780 min Scan# 2082

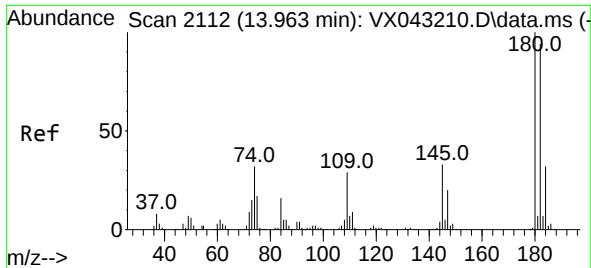
Delta R.T. 0.006 min

Lab File: VX043429.D

Acq: 18 Oct 2024 13:14

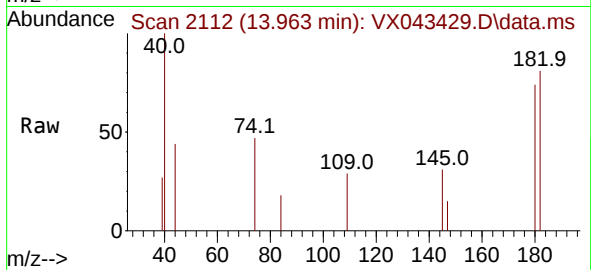
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 2419        |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 11.6  | 10.2 15.2   |
| 129         | 9.8   | 8.6 13.0    |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.564 ug/l  
 RT: 13.963 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VX043429.D  
 Acq: 18 Oct 2024 13:14

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 418   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 116.0 | 46.5  | 139.3 |
| 145      | 33.5  | 17.2  | 51.6  |

