

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030623\  
 Data File : VX034350.D  
 Acq On : 06 Mar 2023 15:24  
 Operator : JC/MD  
 Sample : 01816-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 31957

Quant Time: Mar 07 00:39:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 17 12:33:35 2023  
 Response via : Initial Calibration

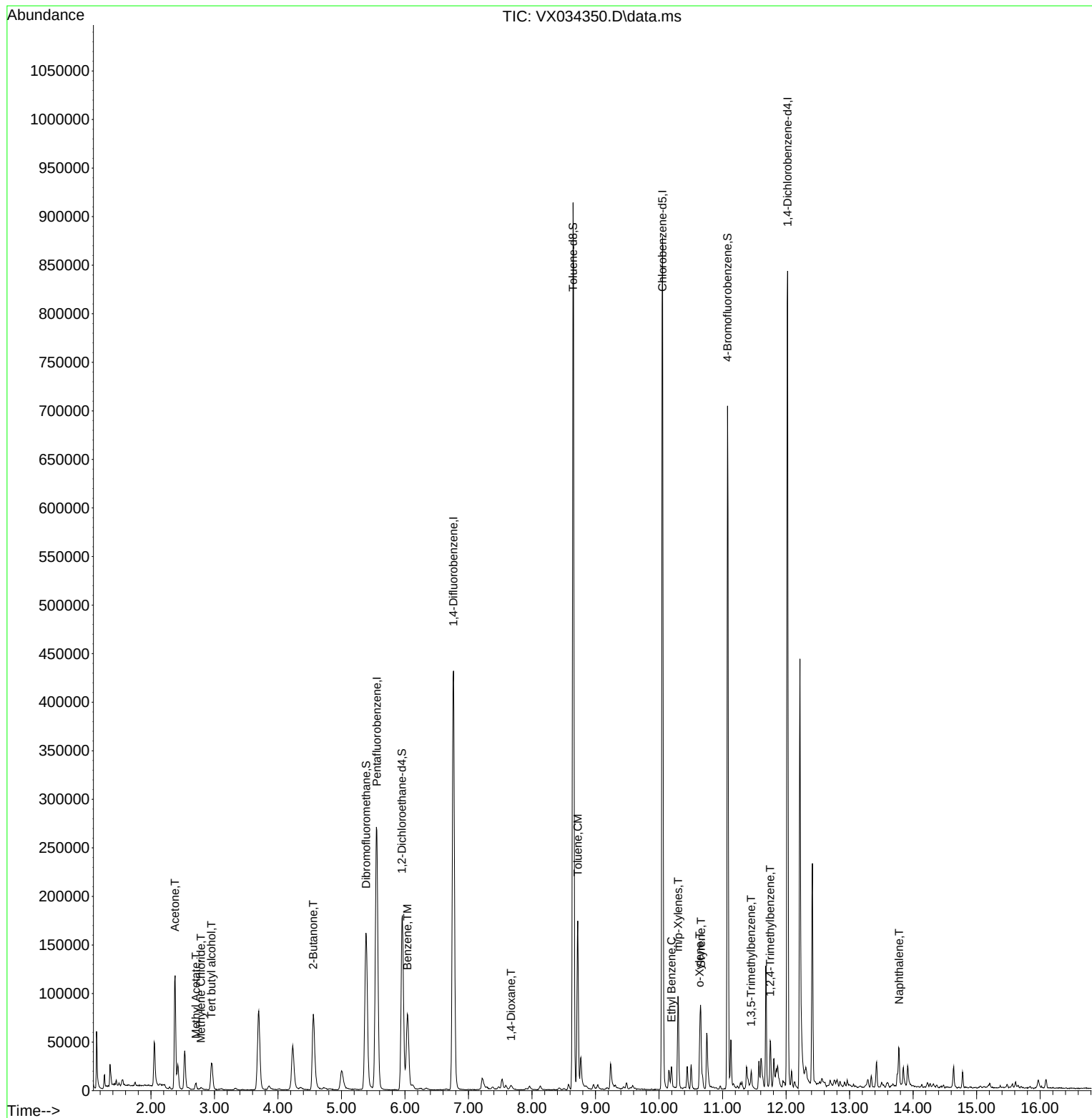
| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 5.556          | 168  | 268705     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.763          | 114  | 449595     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.055         | 117  | 401161     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024         | 152  | 179066     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.952          | 65   | 167404     | 46.259   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 78 - 117 |      | Recovery = | 92.520%  |        |          |
| 35) Dibromofluoromethane    | 5.385          | 113  | 142879     | 48.809   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 97.620%  |        |          |
| 50) Toluene-d8              | 8.647          | 98   | 540633     | 51.440   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 92 - 112 |      | Recovery = | 102.880% |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 187814     | 46.718   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 93.440%  |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          |        | Qvalue   |
| 11) Tert butyl alcohol      | 2.953          | 59   | 31034      | 38.342   | ug/l # | 82       |
| 16) Acetone                 | 2.380          | 43   | 123730     | 66.280   | ug/l   | 93       |
| 18) Methyl Acetate          | 2.709          | 43   | 8204       | 1.420    | ug/l   | 99       |
| 20) Methylene Chloride      | 2.788          | 84   | 796        | 0.237    | ug/l # | 80       |
| 25) 2-Butanone              | 4.556          | 43   | 141880     | 52.528   | ug/l   | 99       |
| 40) Benzene                 | 6.037          | 78   | 93813      | 7.312    | ug/l   | 98       |
| 49) 1,4-Dioxane             | 7.671          | 88   | 2461       | 30.447   | ug/l # | 99       |
| 52) Toluene                 | 8.720          | 92   | 64924      | 8.352    | ug/l   | 98       |
| 67) Ethyl Benzene           | 10.195         | 91   | 12398      | 0.825    | ug/l   | 95       |
| 68) m/p-Xylenes             | 10.299         | 106  | 22785      | 3.963    | ug/l   | 97       |
| 69) o-Xylene                | 10.640         | 106  | 10619      | 1.855    | ug/l   | 96       |
| 70) Styrene                 | 10.659         | 104  | 29092      | 3.125    | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene  | 11.451         | 105  | 6837       | 0.596    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 11.750         | 105  | 21496      | 1.853    | ug/l   | 98       |
| 95) Naphthalene             | 13.780         | 128  | 23920      | 1.835    | ug/l   | 99       |
| -----                       |                |      |            |          |        |          |

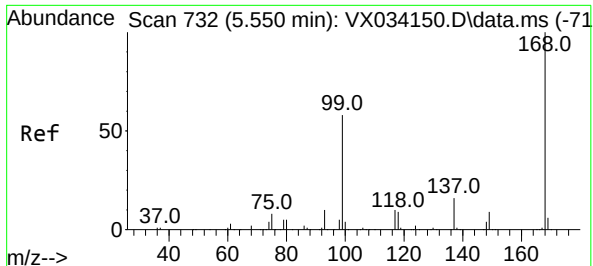
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 17 12:33:35 2023  
Response via : Initial Calibration

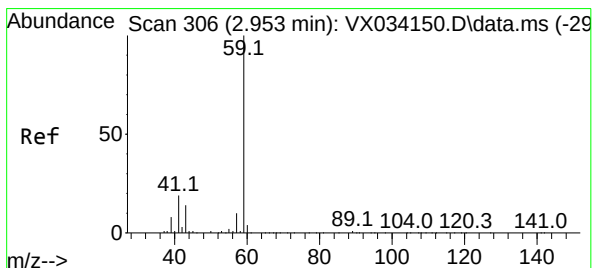
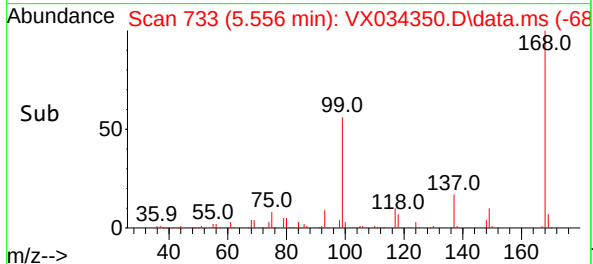
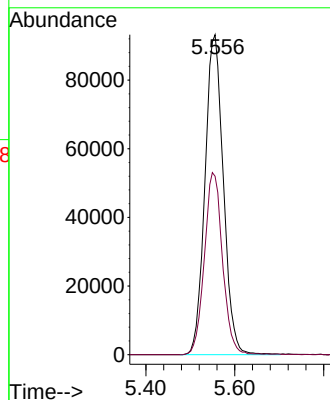
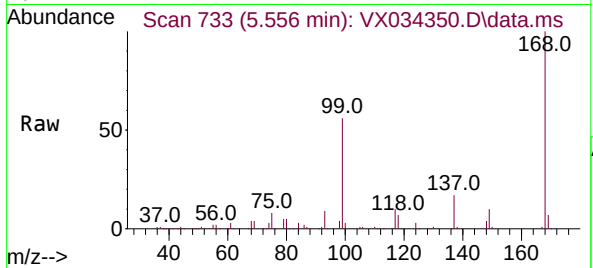




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

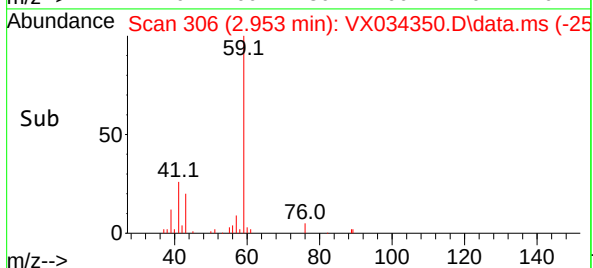
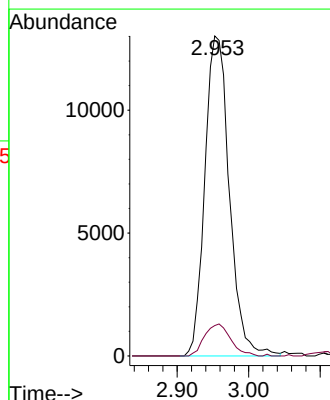
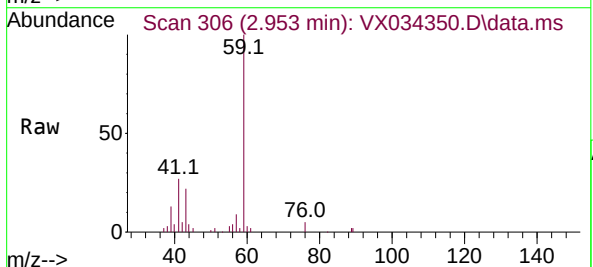
Instrument :  
MSVOA\_X  
ClientSampleId :  
31957

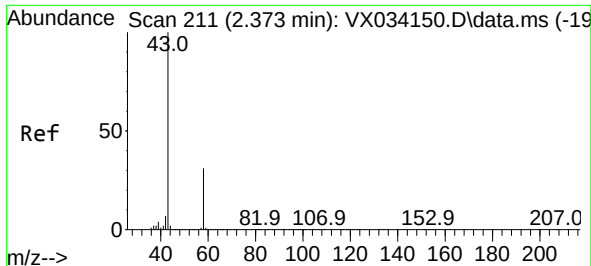
Tgt Ion:168 Resp: 268705  
Ion Ratio Lower Upper  
168 100  
99 55.7 39.6 59.4



#11  
Tert butyl alcohol  
Concen: 38.342 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. 0.000 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

Tgt Ion: 59 Resp: 31034  
Ion Ratio Lower Upper  
59 100  
57 10.6 3.7 5.5#

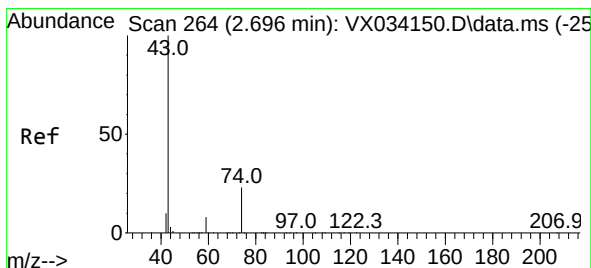
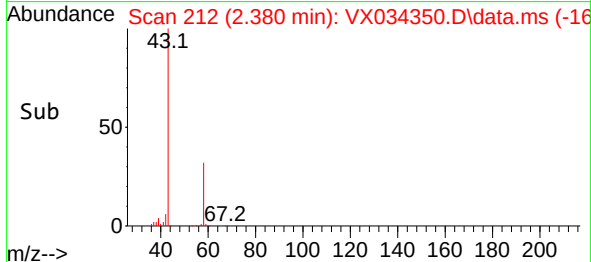
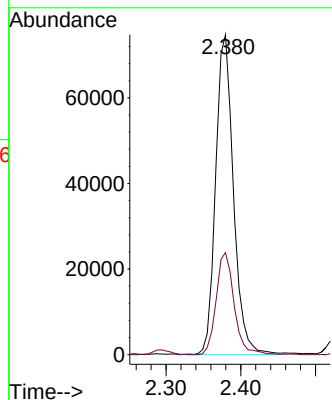
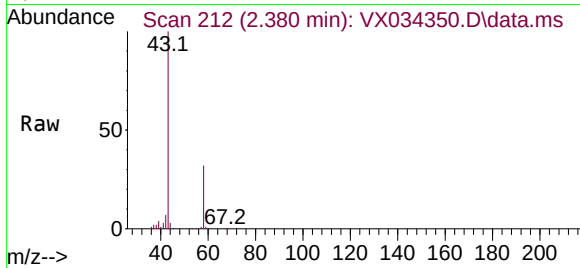




#16  
Acetone  
Concen: 66.280 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

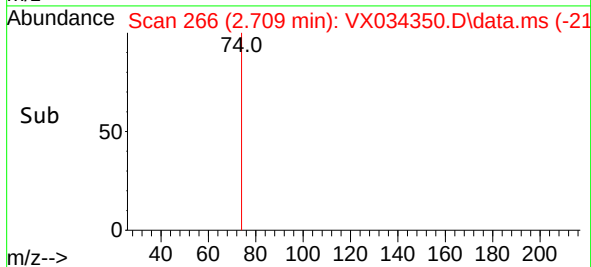
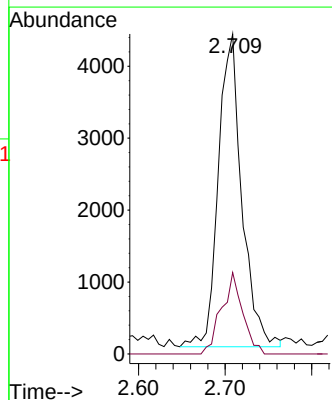
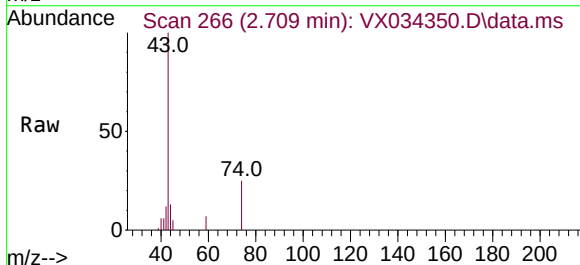
Instrument :  
MSVOA\_X  
ClientSampleId :  
31957

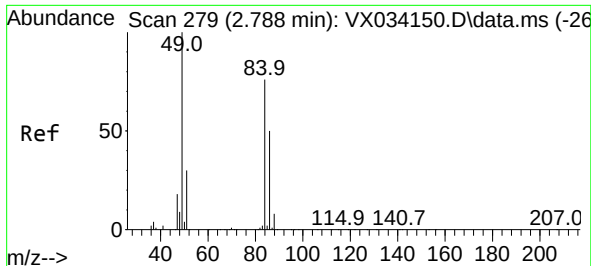
Tgt Ion: 43 Resp: 123730  
Ion Ratio Lower Upper  
43 100  
58 31.8 22.6 33.8



#18  
Methyl Acetate  
Concen: 1.420 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.012 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

Tgt Ion: 43 Resp: 8204  
Ion Ratio Lower Upper  
43 100  
74 23.3 18.2 27.4

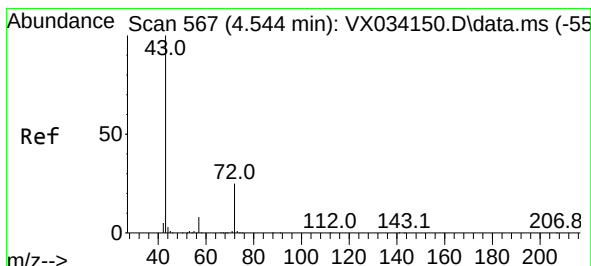
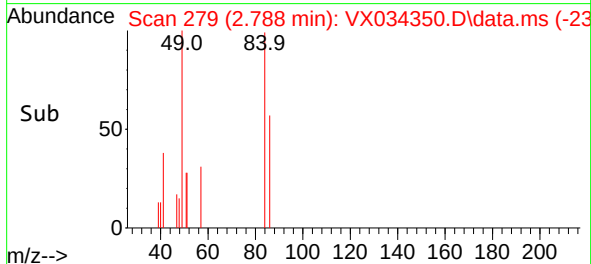
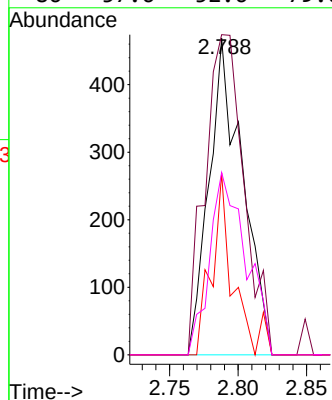
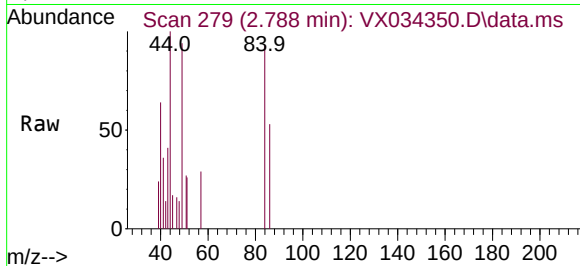




#20  
Methylene Chloride  
Concen: 0.237 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

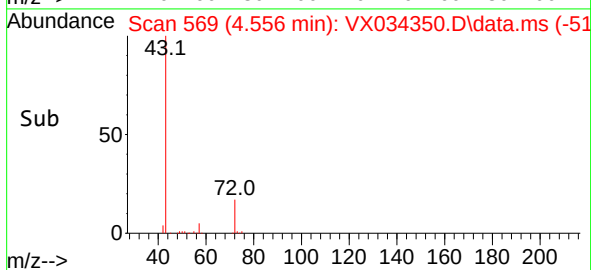
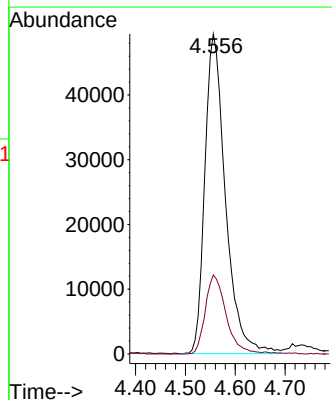
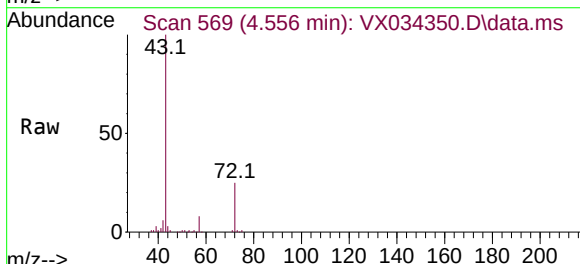
Instrument :  
MSVOA\_X  
ClientSampleId :  
31957

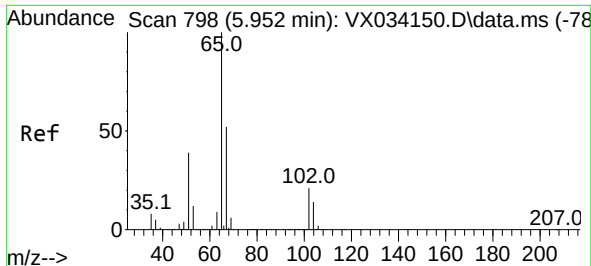
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 796    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 101.1 | 101.1 | 151.7# |
| 51       | 57.4  | 31.0  | 46.6#  |
| 86       | 57.6  | 52.6  | 79.0   |



#25  
2-Butanone  
Concen: 52.528 ug/l  
RT: 4.556 min Scan# 569  
Delta R.T. 0.012 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 141880 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 24.7  | 19.4  | 29.2   |





#33

1,2-Dichloroethane-d4

Concen: 46.259 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA\_X

ClientSampleId :

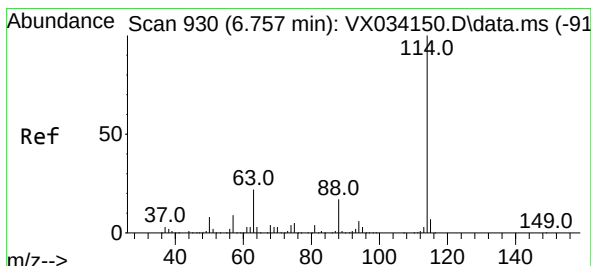
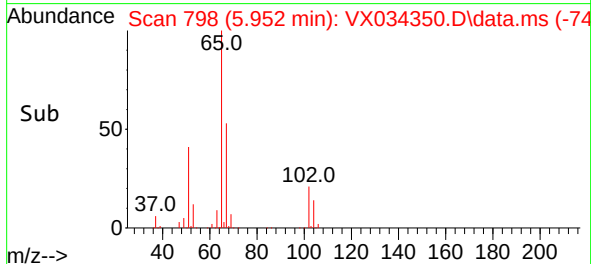
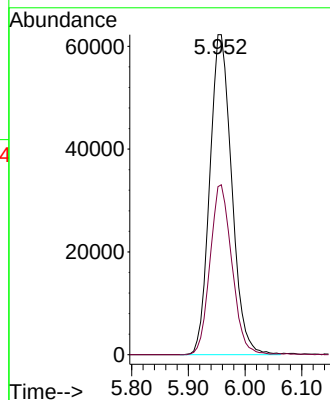
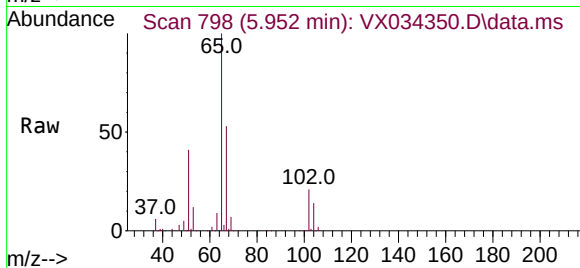
31957

Tgt Ion: 65 Resp: 167404

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

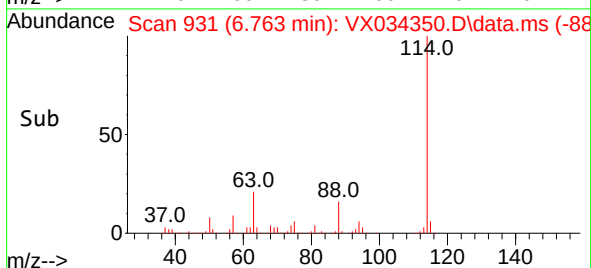
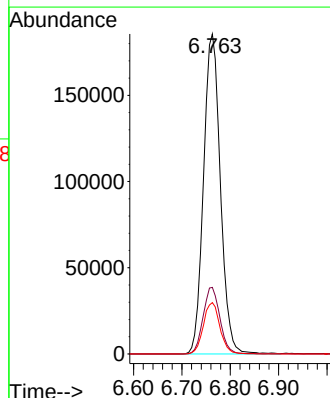
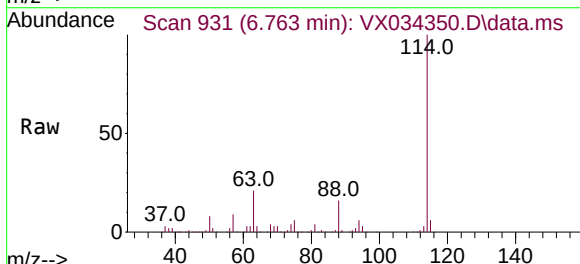
Tgt Ion: 114 Resp: 449595

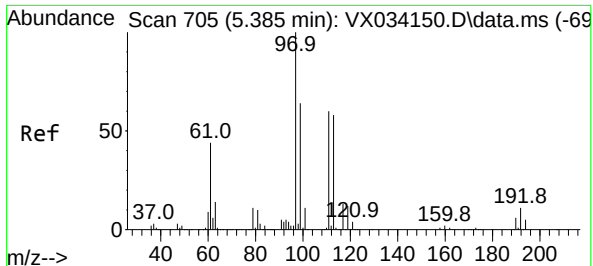
Ion Ratio Lower Upper

114 100

63 20.8 0.0 37.4

88 16.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.809 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX034350.D

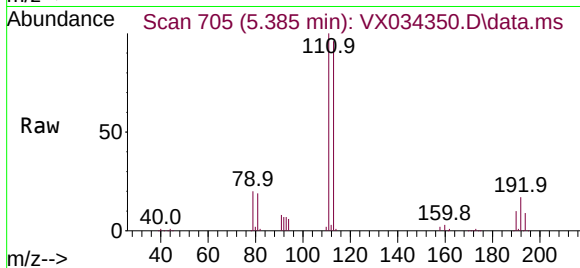
Acq: 06 Mar 2023 15:24

Instrument :

MSVOA\_X

ClientSampleId :

31957



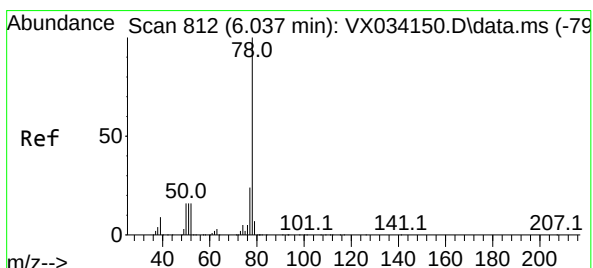
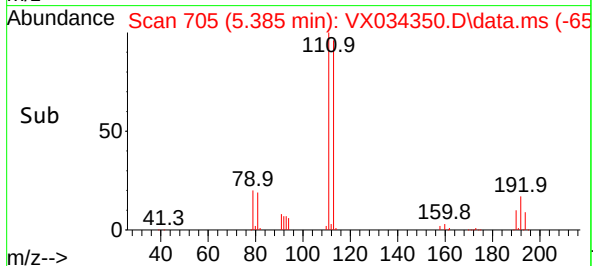
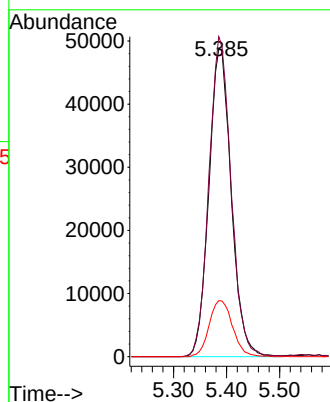
Tgt Ion:113 Resp: 142879

Ion Ratio Lower Upper

113 100

111 102.9 83.0 124.6

192 19.0 19.0 28.4



#40

Benzene

Concen: 7.312 ug/l

RT: 6.037 min Scan# 812

Delta R.T. 0.000 min

Lab File: VX034350.D

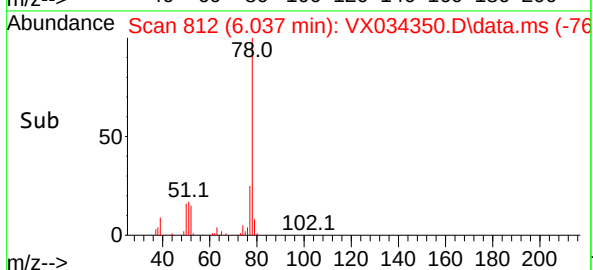
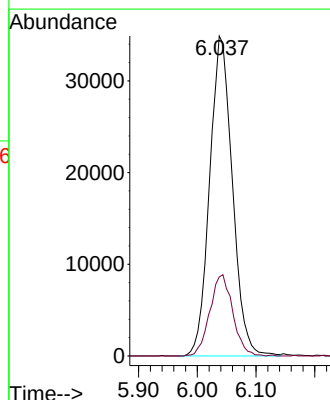
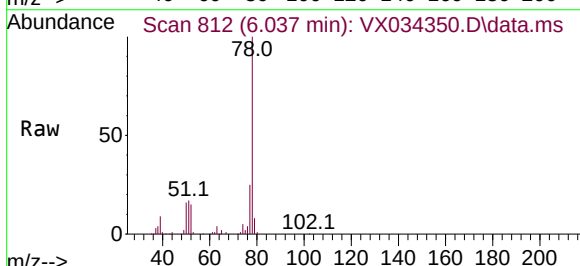
Acq: 06 Mar 2023 15:24

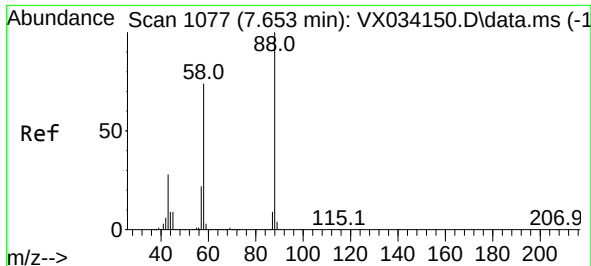
Tgt Ion: 78 Resp: 93813

Ion Ratio Lower Upper

78 100

77 24.7 19.0 28.4





#49

1,4-Dioxane

Concen: 30.447 ug/l

RT: 7.671 min Scan# 1077

Delta R.T. 0.018 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA\_X

ClientSampleId :

31957

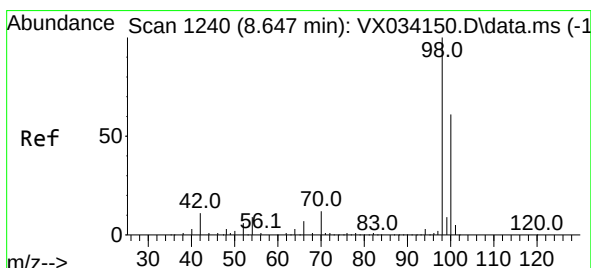
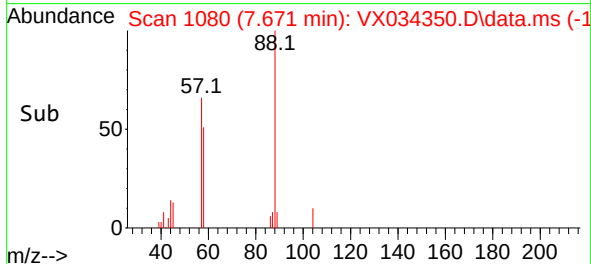
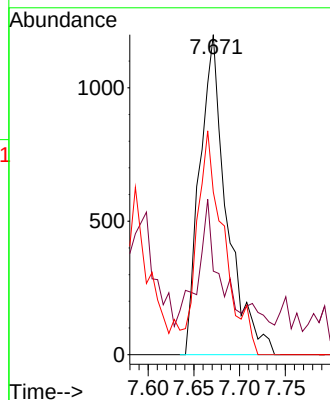
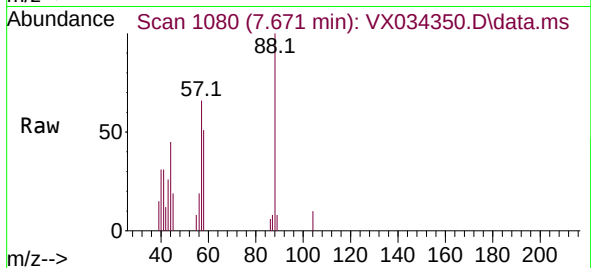
Tgt Ion: 88 Resp: 2461

Ion Ratio Lower Upper

88 100

43 29.7 0.0 0.0#

58 69.4 56.5 84.7



#50

Toluene-d8

Concen: 51.440 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX034350.D

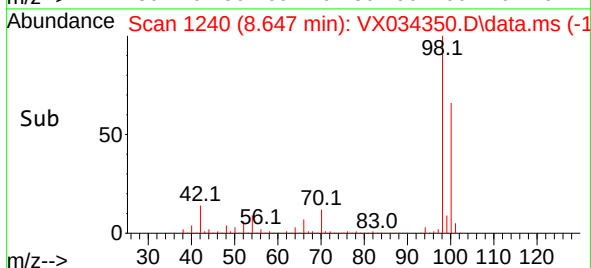
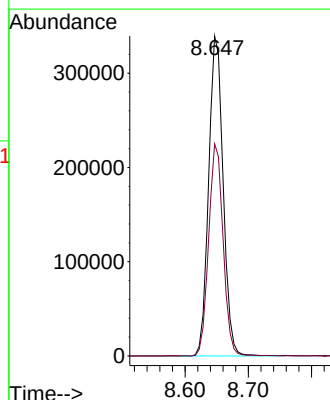
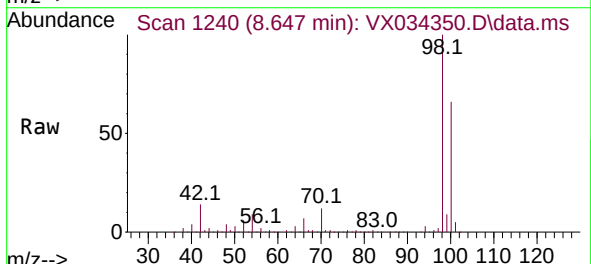
Acq: 06 Mar 2023 15:24

Tgt Ion: 98 Resp: 540633

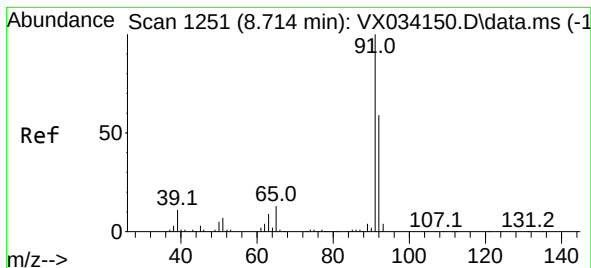
Ion Ratio Lower Upper

98 100

100 66.1 53.6 80.4







#52

Toluene

Concen: 8.352 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA\_X

ClientSampleId :

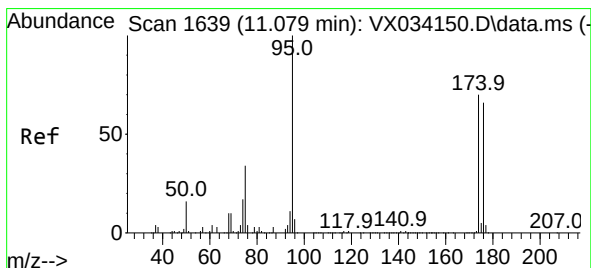
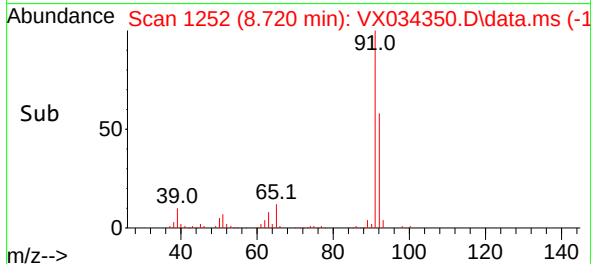
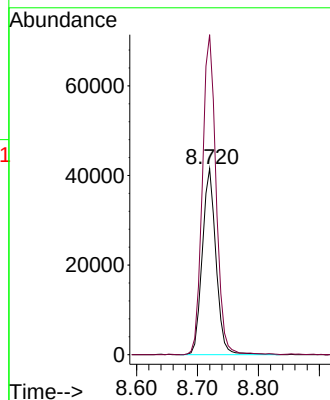
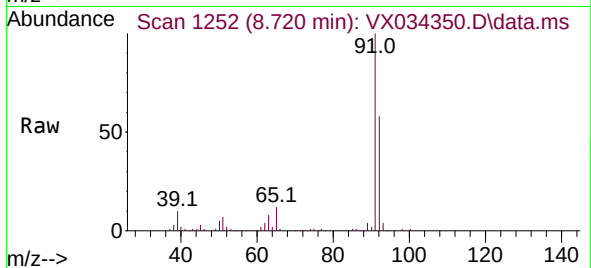
31957

Tgt Ion: 92 Resp: 64924

Ion Ratio Lower Upper

92 100

91 172.5 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 46.718 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

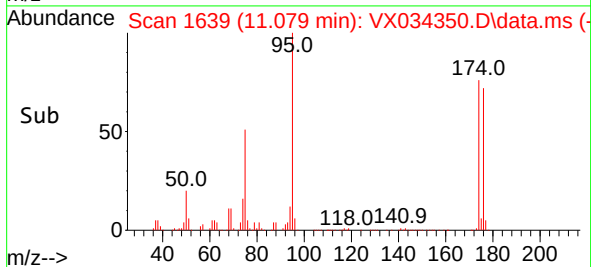
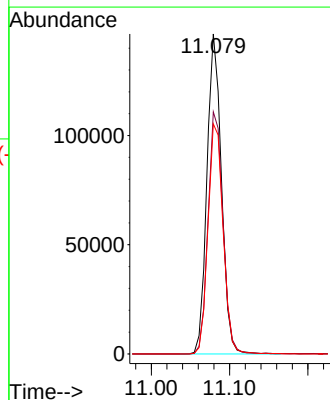
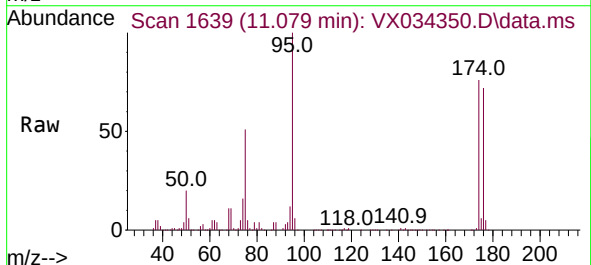
Tgt Ion: 95 Resp: 187814

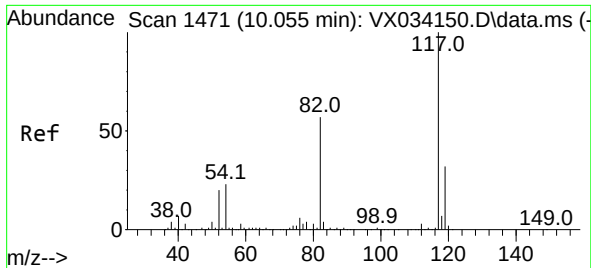
Ion Ratio Lower Upper

95 100

174 78.1 0.0 184.4

176 75.0 0.0 178.8

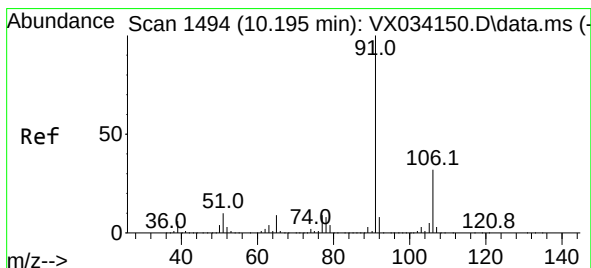
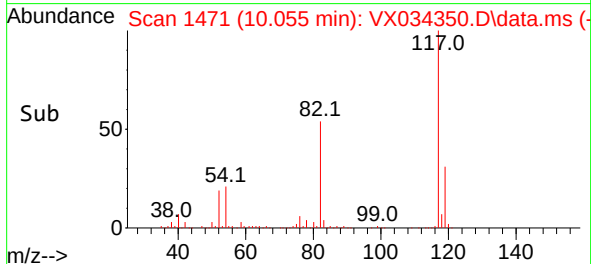
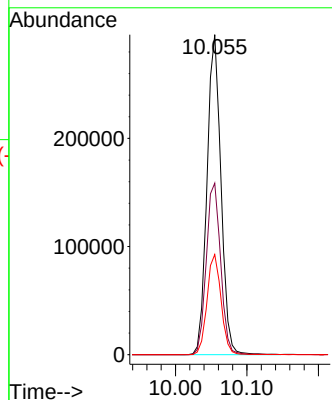
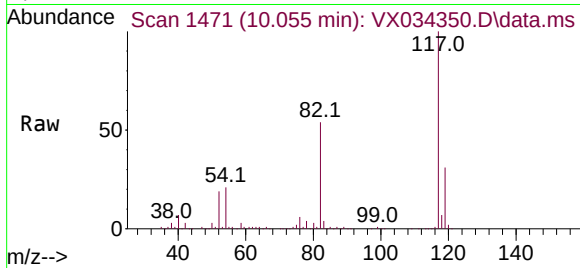




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

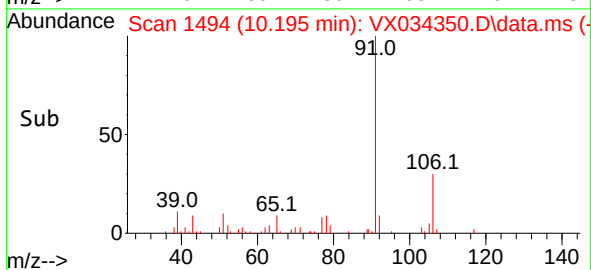
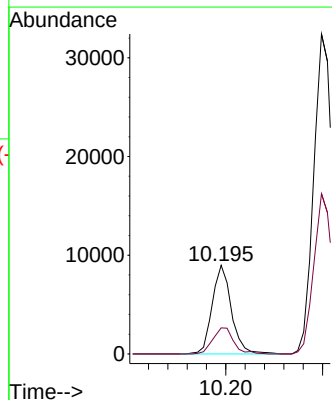
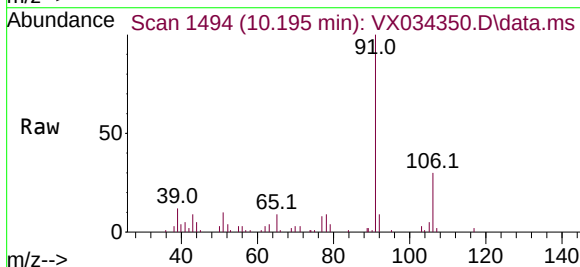
Instrument :  
MSVOA\_X  
ClientSampleId :  
31957

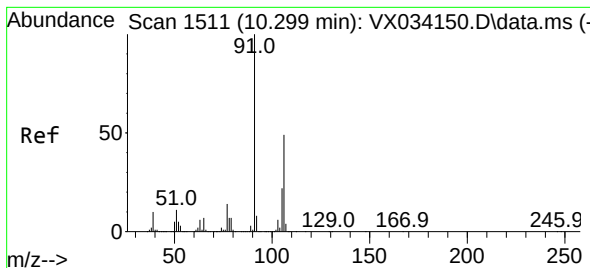
Tgt Ion:117 Resp: 401161  
Ion Ratio Lower Upper  
117 100  
82 53.6 40.6 60.8  
119 31.3 25.6 38.4



#67  
Ethyl Benzene  
Concen: 0.825 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

Tgt Ion: 91 Resp: 12398  
Ion Ratio Lower Upper  
91 100  
106 29.5 25.8 38.8

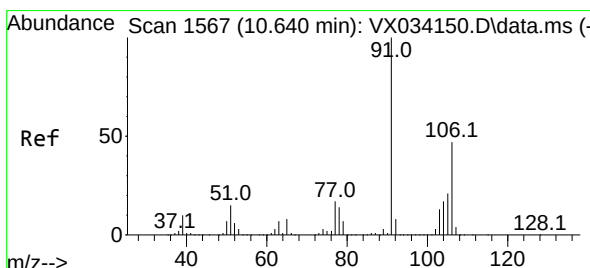
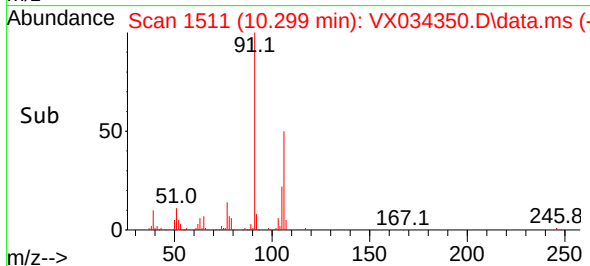
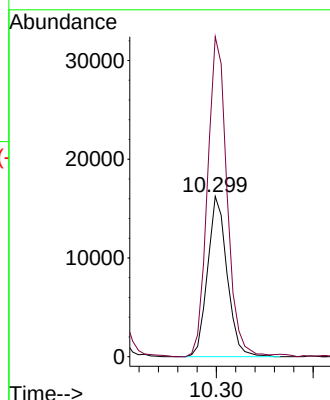
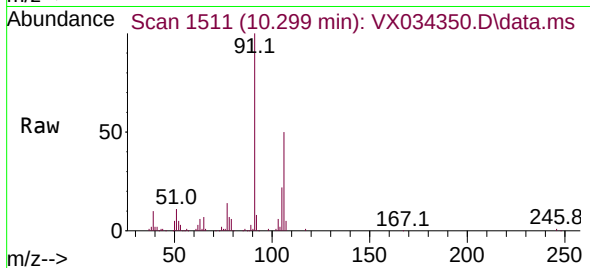




#68  
m/p-Xylenes  
Concen: 3.963 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

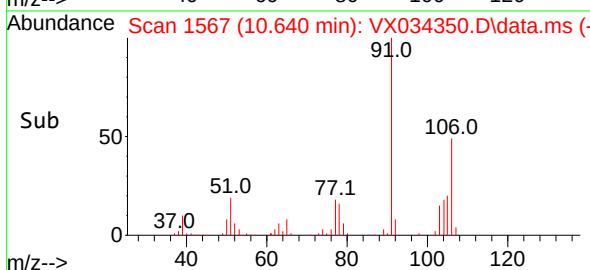
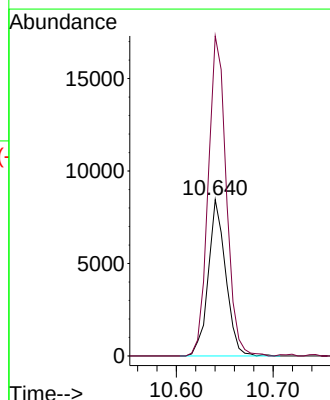
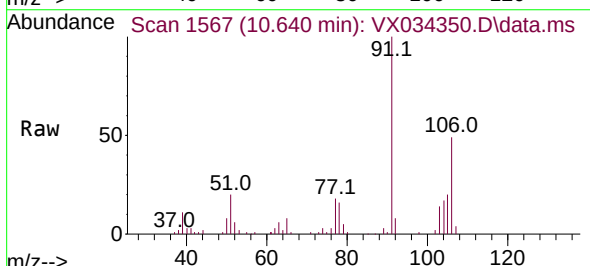
Instrument :  
MSVOA\_X  
ClientSampleId :  
31957

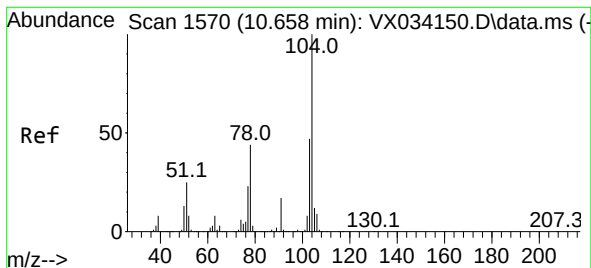
Tgt Ion:106 Resp: 22785  
Ion Ratio Lower Upper  
106 100  
91 199.8 156.4 234.6



#69  
o-Xylene  
Concen: 1.855 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: VX034350.D  
Acq: 06 Mar 2023 15:24

Tgt Ion:106 Resp: 10619  
Ion Ratio Lower Upper  
106 100  
91 212.0 103.1 309.3





#70

Styrene

Concen: 3.125 ug/l

RT: 10.659 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA\_X

ClientSampleId :

31957

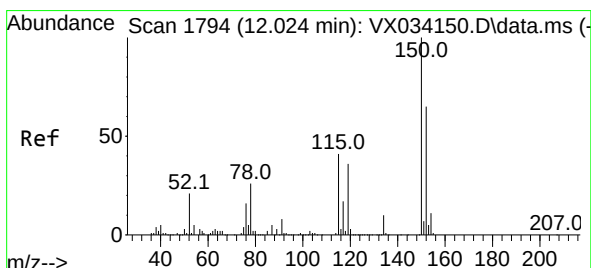
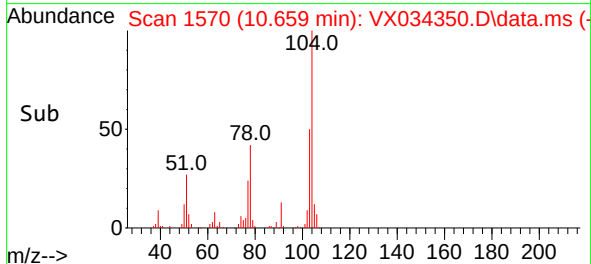
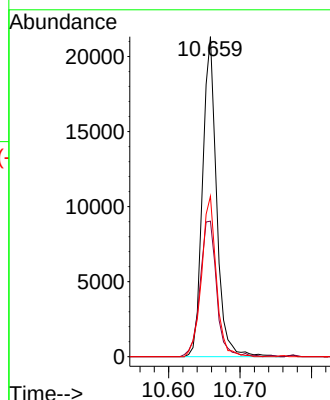
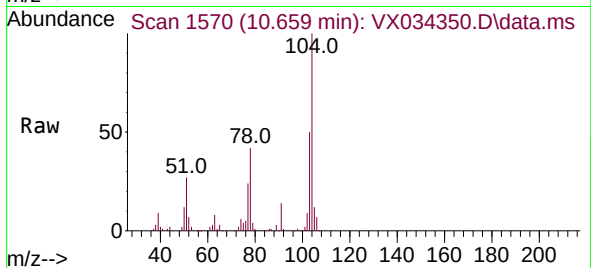
Tgt Ion:104 Resp: 29092

Ion Ratio Lower Upper

104 100

78 49.8 37.5 56.3

103 52.4 43.3 64.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

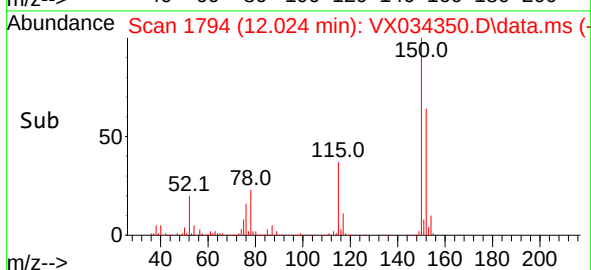
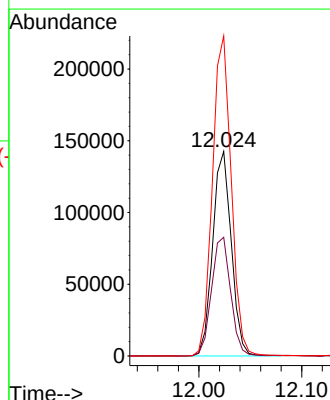
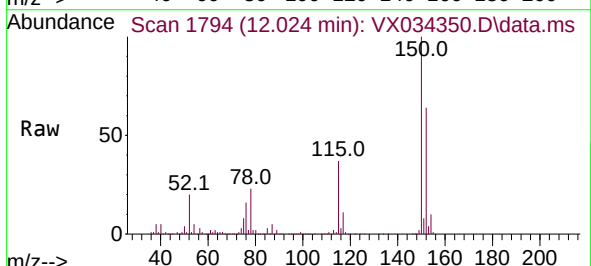
Tgt Ion:152 Resp: 179066

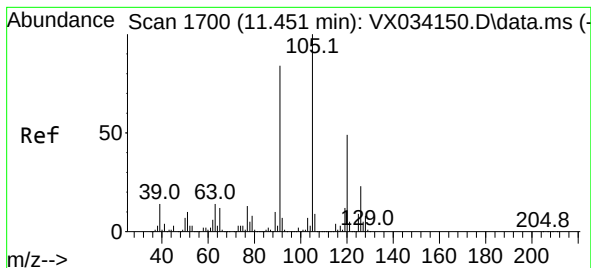
Ion Ratio Lower Upper

152 100

115 59.6 38.7 116.1

150 157.9 0.0 348.2





#80

1,3,5-Trimethylbenzene

Concen: 0.596 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA\_X

ClientSampleId :

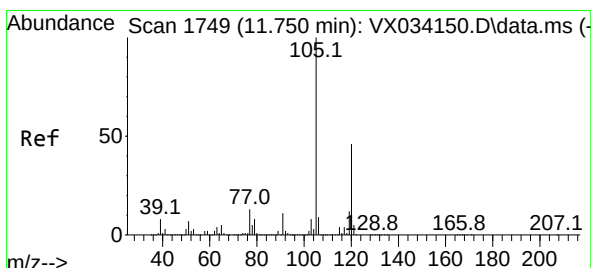
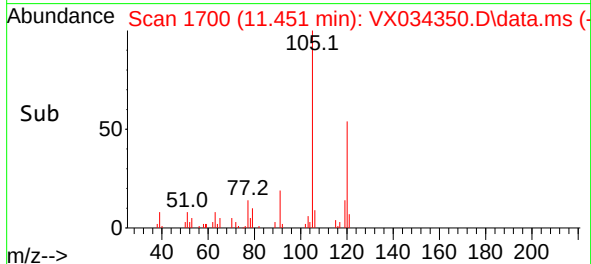
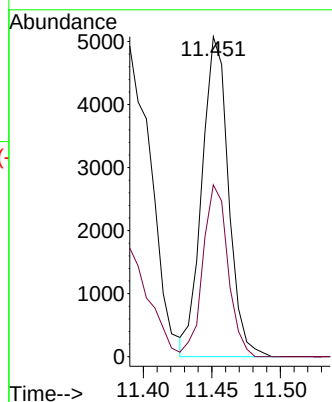
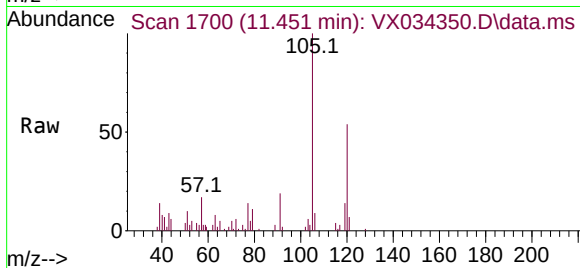
31957

Tgt Ion:105 Resp: 6837

Ion Ratio Lower Upper

105 100

120 50.6 25.6 76.8



#84

1,2,4-Trimethylbenzene

Concen: 1.853 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX034350.D

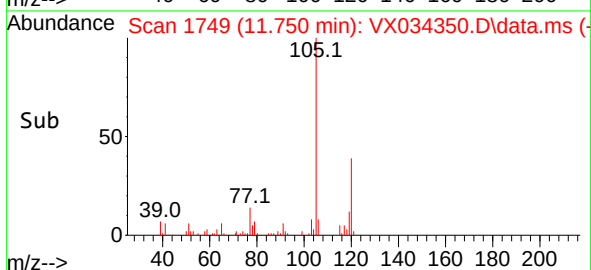
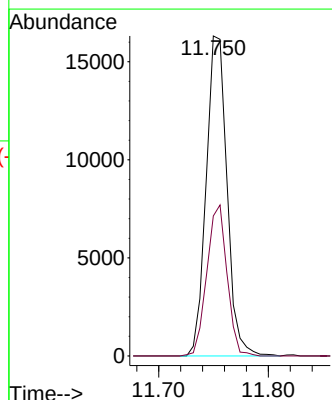
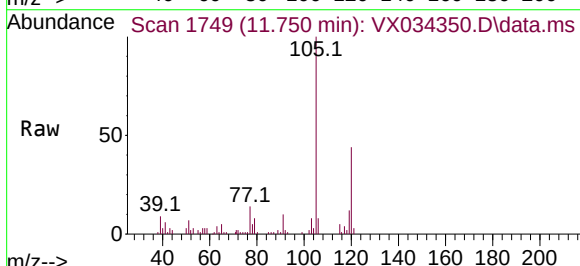
Acq: 06 Mar 2023 15:24

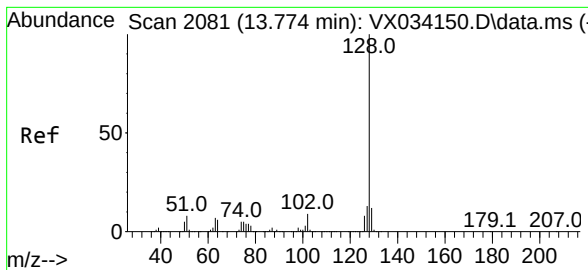
Tgt Ion:105 Resp: 21496

Ion Ratio Lower Upper

105 100

120 45.7 23.4 70.2





#95  
 Naphthalene  
 Concen: 1.835 ug/l  
 RT: 13.780 min Scan# 2081  
 Delta R.T. 0.006 min  
 Lab File: VX034350.D  
 Acq: 06 Mar 2023 15:24

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 31957

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 23920 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.9  | 10.3  | 15.5  |
| 129      | 11.4  | 8.7   | 13.1  |

