

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090321\  
 Data File : VX024100.D  
 Acq On : 03 Sep 2021 14:18  
 Operator : JC/MD  
 Sample : M3646-16 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 93-94

Quant Time: Sep 04 01:29:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 11:57:51 2021  
 Response via : Initial Calibration

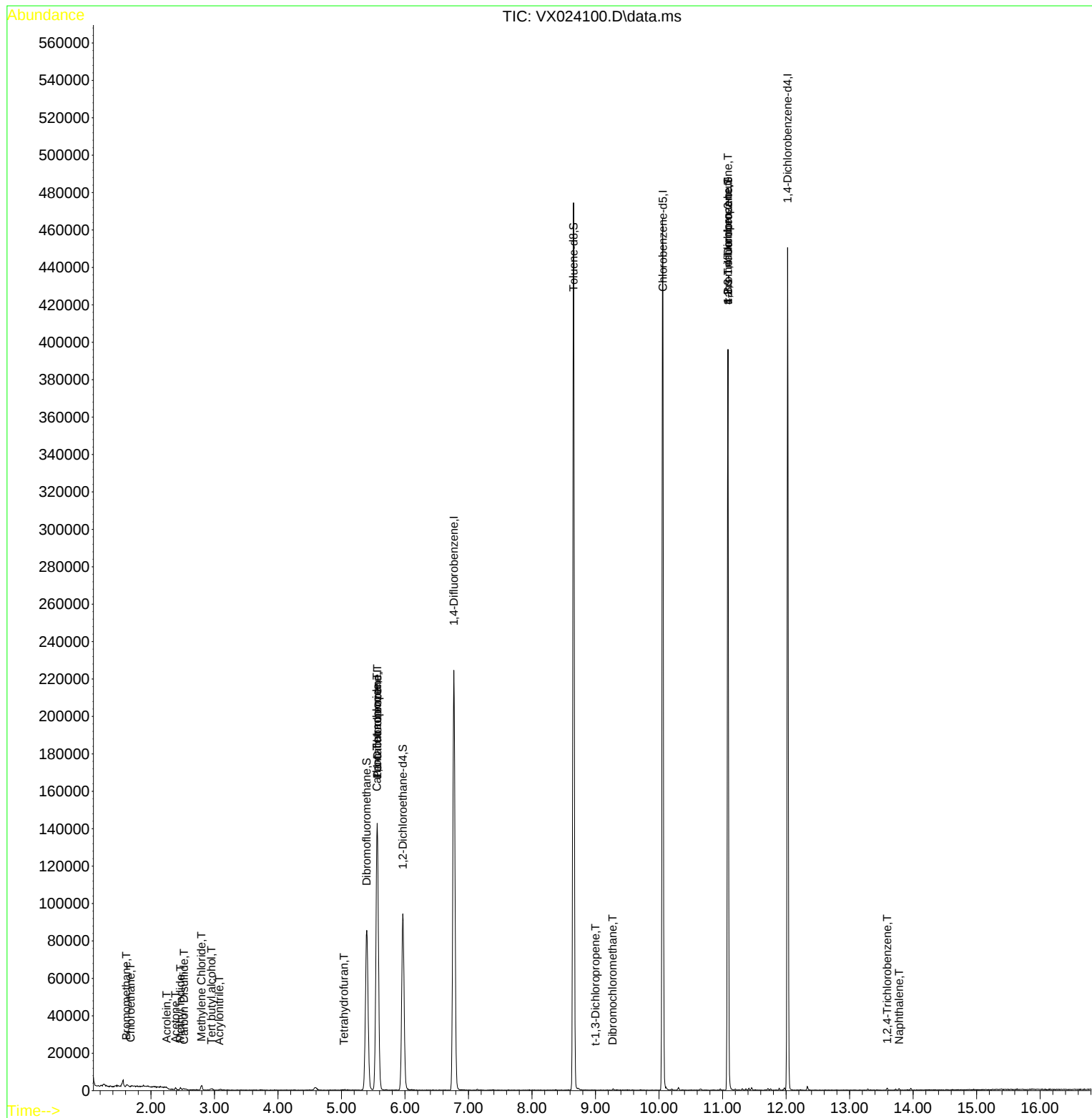
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 132519              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 222106              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 209280              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 87600               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 95361               | 51.559 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 103.120% |        |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 73023               | 49.673 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.340%  |        |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 268558              | 47.998 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 96.000%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 97232               | 47.206 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 94.420%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 1.612          | 94   | 212                 | 0.225  | ug/l # | 65       |
| 6) Chloroethane               | 1.679          | 64   | 336                 | 2.474  | ug/l # | 43       |
| 10) Methyl Iodide             | 2.465          | 142  | 1203                | 0.650  | ug/l   | 96       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 573                 | 1.532  | ug/l # | 73       |
| 13) Acrolein                  | 2.246          | 56   | 146                 | 0.656  | ug/l # | 48       |
| 15) Acrylonitrile             | 3.075          | 53   | 193                 | 0.232  | ug/l # | 44       |
| 16) Acetone                   | 2.386          | 43   | 896                 | 1.083  | ug/l   | 90       |
| 17) Carbon Disulfide          | 2.520          | 76   | 819                 | 0.270  | ug/l # | 75       |
| 20) Methylene Chloride        | 2.794          | 84   | 1004                | 0.636  | ug/l   | 96       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 202                 | 0.249  | ug/l # | 44       |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 10498               | 5.104  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 13757               | 6.414  | ug/l # | 16       |
| 53) t-1,3-Dichloropropene     | 9.000          | 75   | 105                 | 2.175  | ug/l # | 44       |
| 60) Dibromochloromethane      | 9.269          | 129  | 110                 | 1.747  | ug/l # | 11       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 51947               | 25.421 | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 51947               | 74.777 | ug/l # | 12       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 387                 | 0.223  | ug/l   | 90       |
| 95) Naphthalene               | 13.780         | 128  | 729                 | 1.393  | ug/l # | 72       |
| -----                         |                |      |                     |        |        |          |

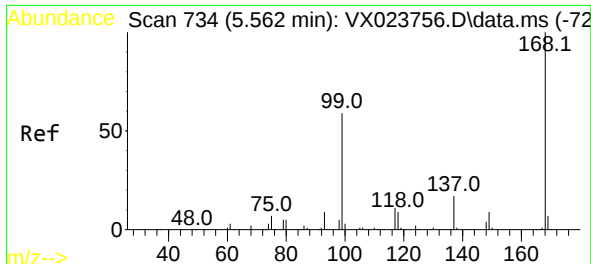
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
93-94

Quant Time: Sep 04 01:29:00 2021  
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Quant Title : SW846 8260  
QLast Update : Tue Aug 17 11:57:51 2021  
Response via : Initial Calibration

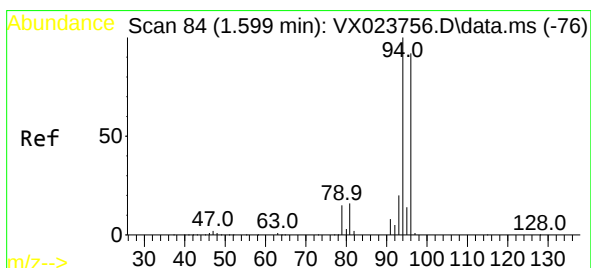
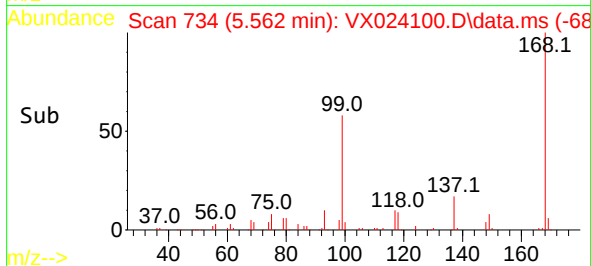
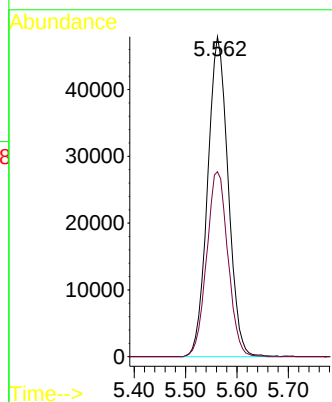
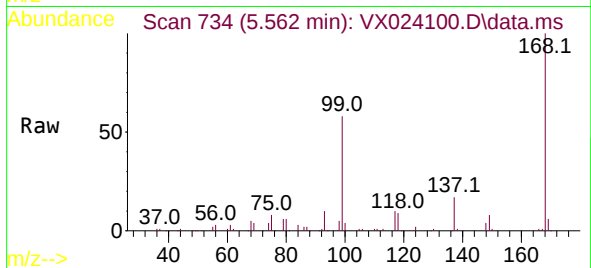




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

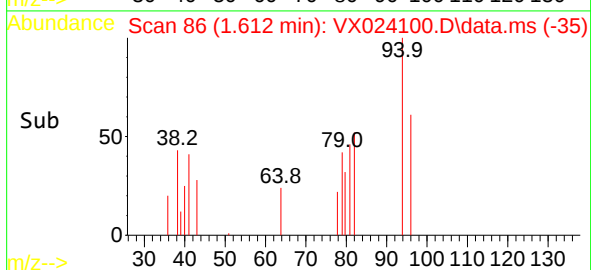
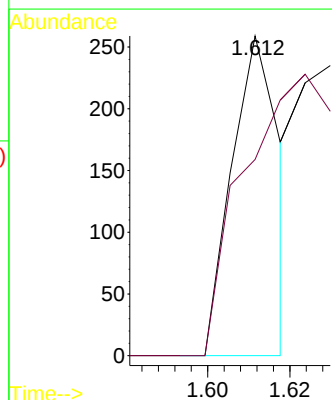
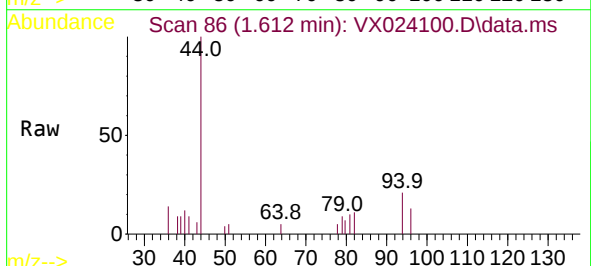
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

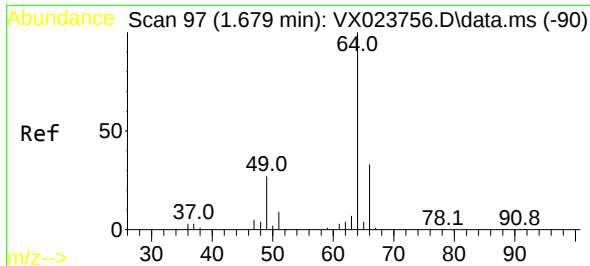
Tgt Ion:168 Resp: 132519  
Ion Ratio Lower Upper  
168 100  
99 57.8 45.8 68.6



#5  
Bromomethane  
Concen: 0.225 ug/l  
RT: 1.612 min Scan# 86  
Delta R.T. 0.013 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion: 94 Resp: 212  
Ion Ratio Lower Upper  
94 100  
96 61.4 76.4 114.6#

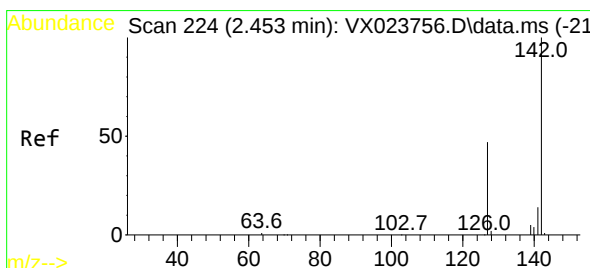
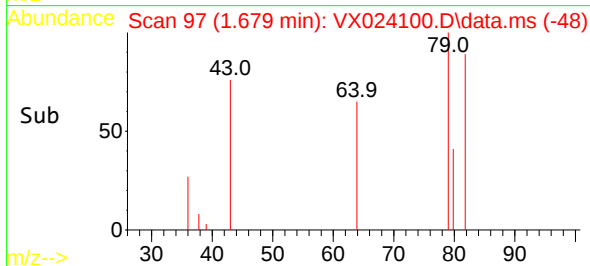
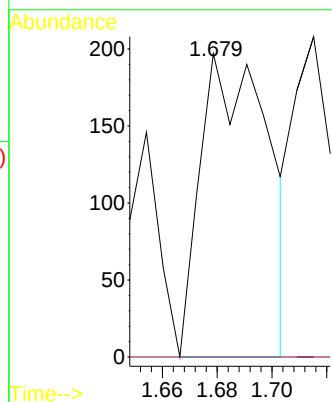
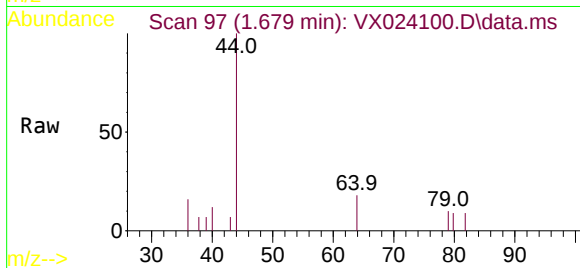




#6  
Chloroethane  
Concen: 2.474 ug/l  
RT: 1.679 min Scan# 97  
Delta R.T. -0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

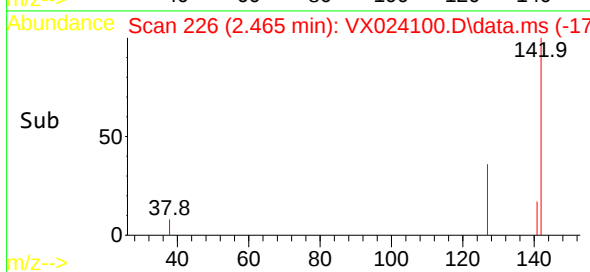
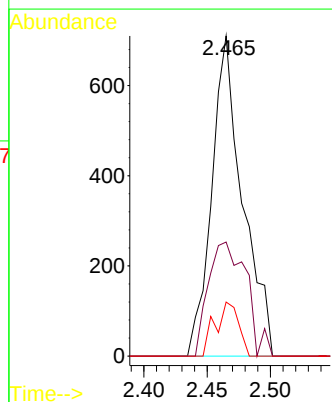
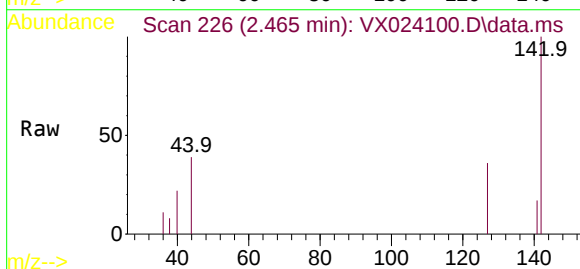
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

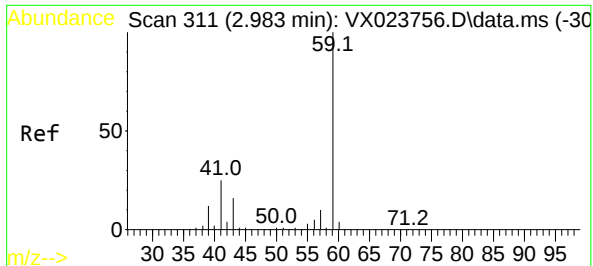
Tgt Ion: 64 Resp: 336  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#10  
Methyl Iodide  
Concen: 0.650 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion: 142 Resp: 1203  
Ion Ratio Lower Upper  
142 100  
127 43.9 33.3 49.9  
141 12.7 11.4 17.0



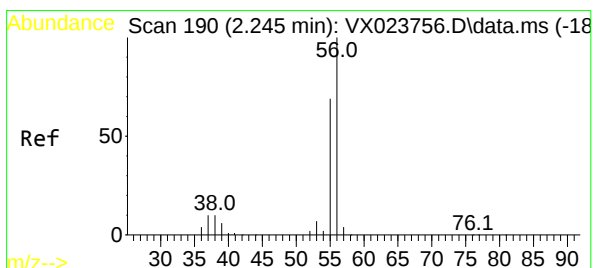
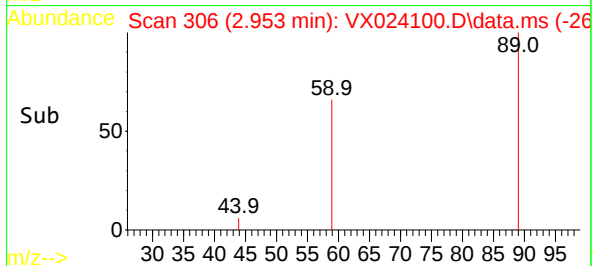
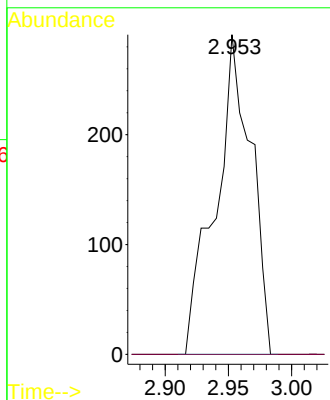
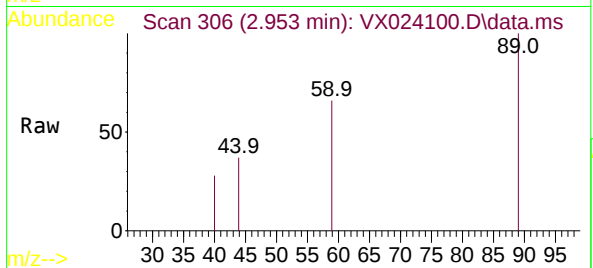


#11

Tert butyl alcohol  
Concen: 1.532 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

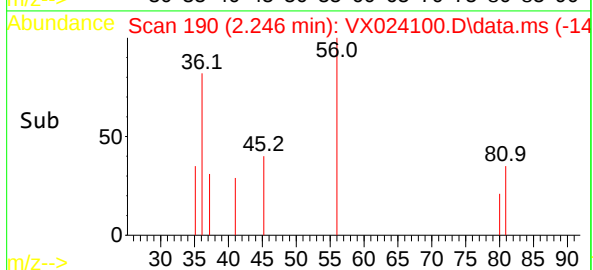
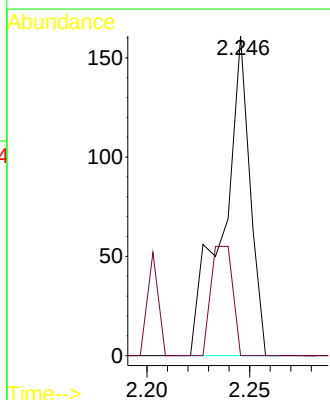
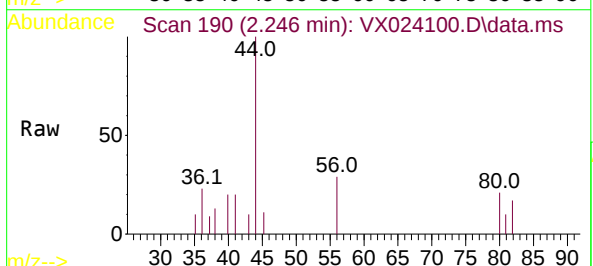
Tgt Ion: 59 Resp: 573  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

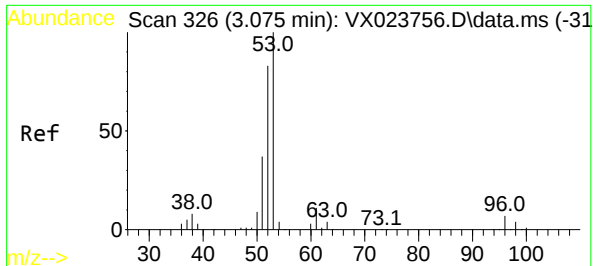


#13

Acrolein  
Concen: 0.656 ug/l  
RT: 2.246 min Scan# 190  
Delta R.T. 0.001 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion: 56 Resp: 146  
Ion Ratio Lower Upper  
56 100  
55 27.4 56.4 84.6#

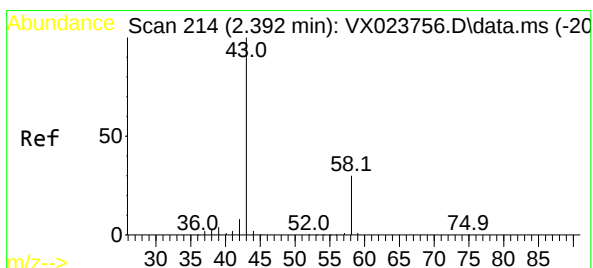
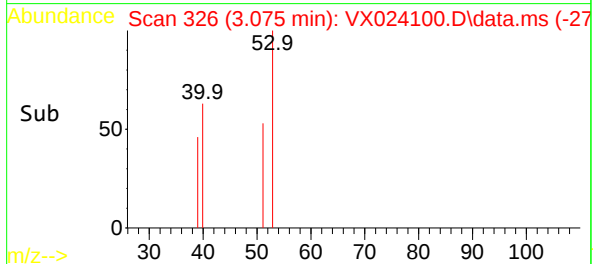
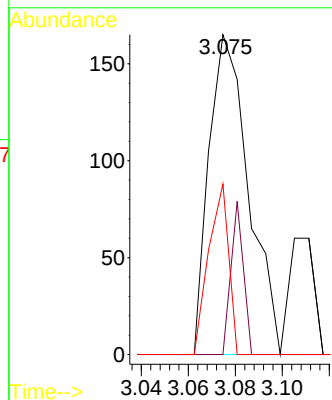
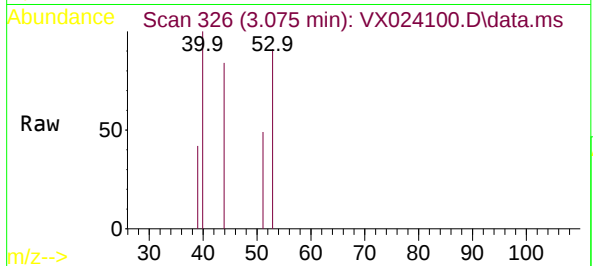




#15  
Acrylonitrile  
Concen: 0.232 ug/l  
RT: 3.075 min Scan# 326  
Delta R.T. -0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

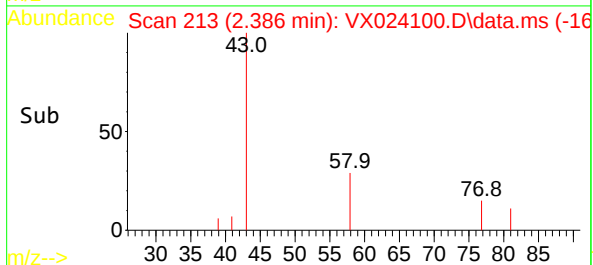
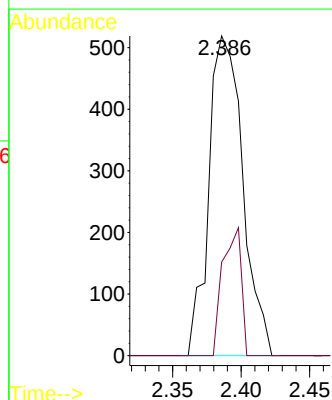
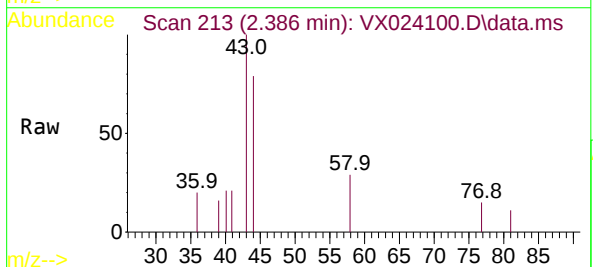
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

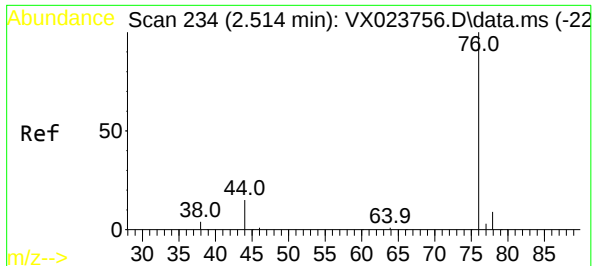
Tgt Ion: 53 Resp: 193  
Ion Ratio Lower Upper  
53 100  
52 15.0 65.3 97.9#  
51 26.9 28.2 42.2#



#16  
Acetone  
Concen: 1.083 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

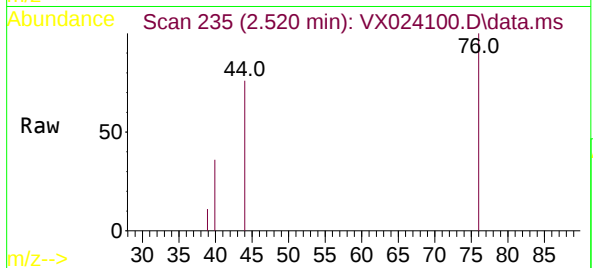
Tgt Ion: 43 Resp: 896  
Ion Ratio Lower Upper  
43 100  
58 29.3 27.8 41.8



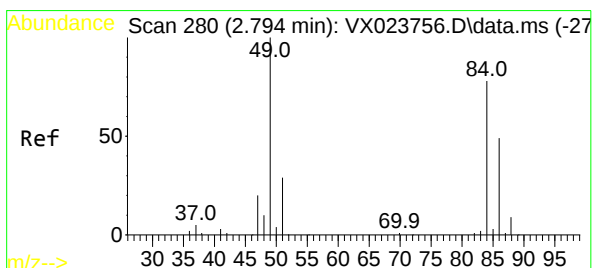
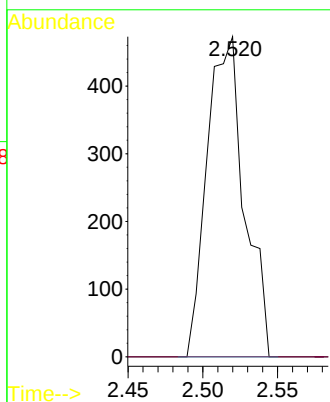
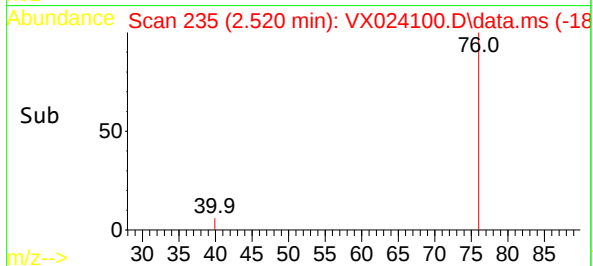


#17  
Carbon Disulfide  
Concen: 0.270 ug/l  
RT: 2.520 min Scan# 235  
Delta R.T. 0.006 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

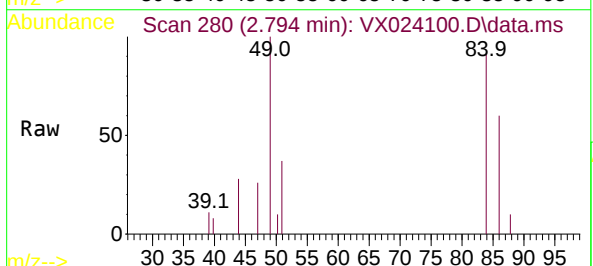
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94



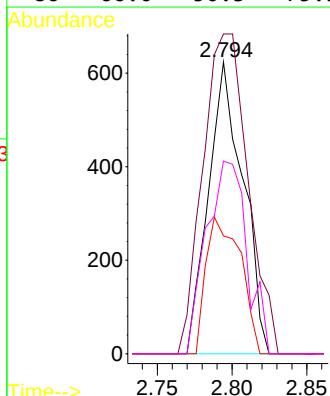
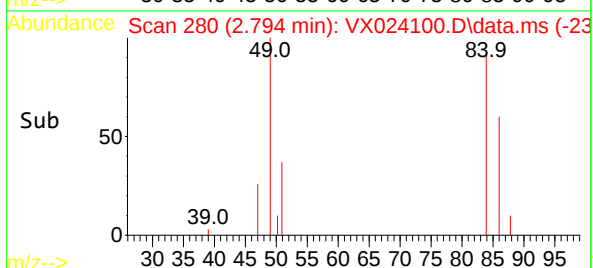
Tgt Ion: 76 Resp: 819  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

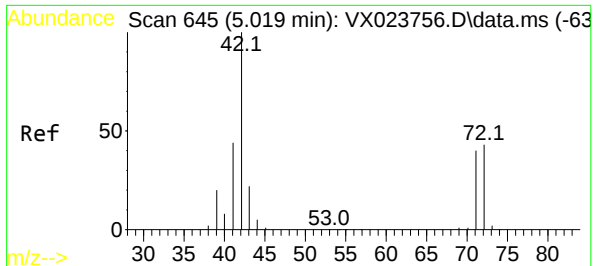


#20  
Methylene Chloride  
Concen: 0.636 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18



Tgt Ion: 84 Resp: 1004  
Ion Ratio Lower Upper  
84 100  
49 109.6 88.6 132.8  
51 40.4 27.0 40.6  
86 66.0 50.3 75.5





#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 5.038 min Scan# 648

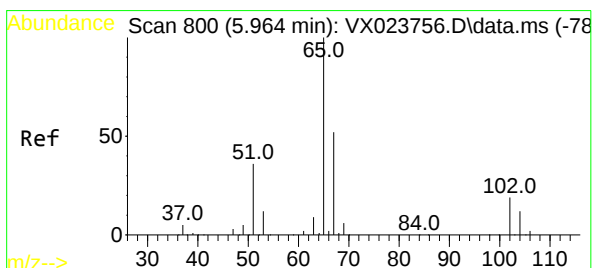
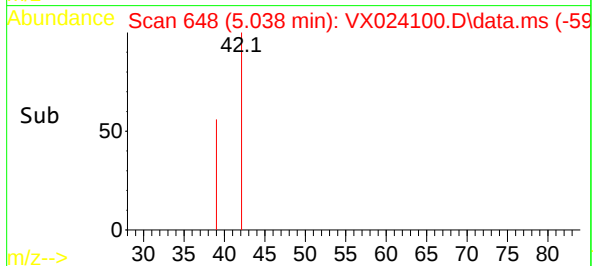
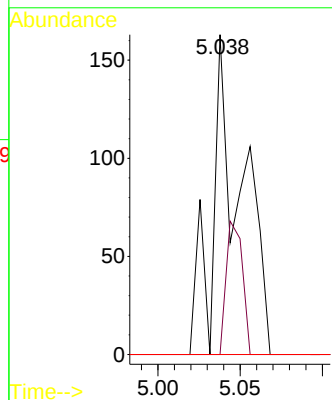
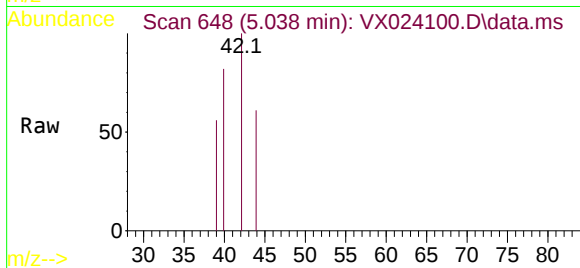
Delta R.T. 0.019 min

Lab File: VX024100.D

Acq: 03 Sep 2021 14:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 202   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 22.8  | 41.7  | 62.5# |
| 71       | 0.0   | 38.4  | 57.6# |

Instrument :  
MSVOA\_X  
ClientSampled :  
93-94



#33

1,2-Dichloroethane-d4

Concen: 51.559 ug/l

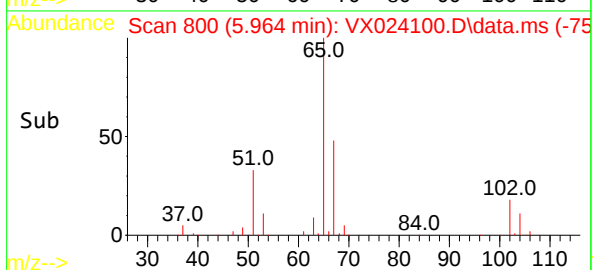
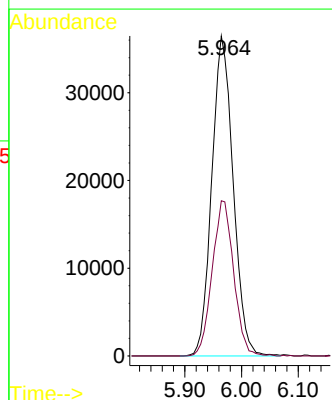
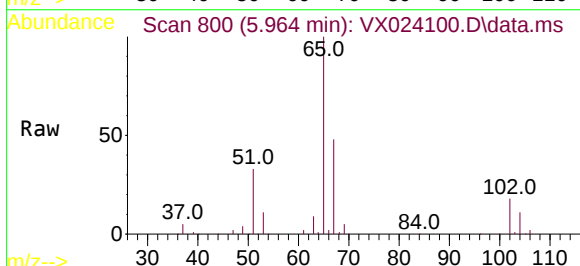
RT: 5.964 min Scan# 800

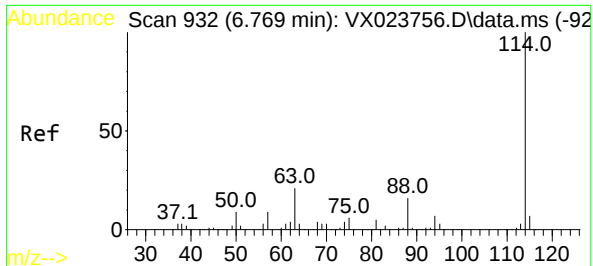
Delta R.T. 0.000 min

Lab File: VX024100.D

Acq: 03 Sep 2021 14:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 95361 |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 48.7  | 0.0   | 105.4 |

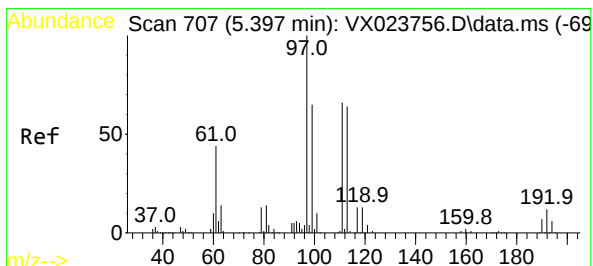
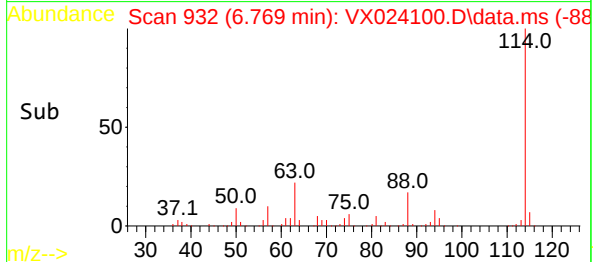
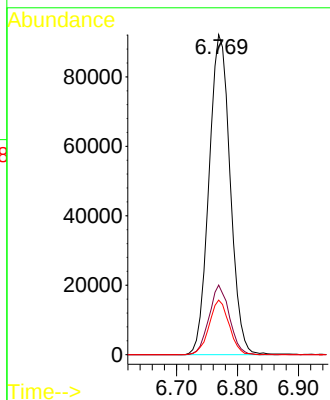
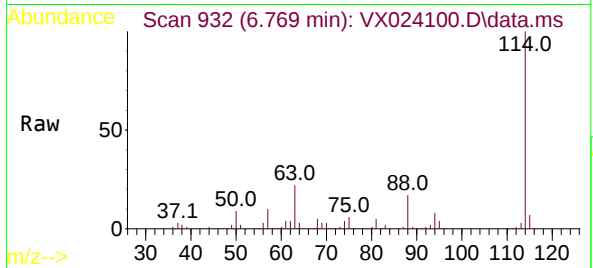




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

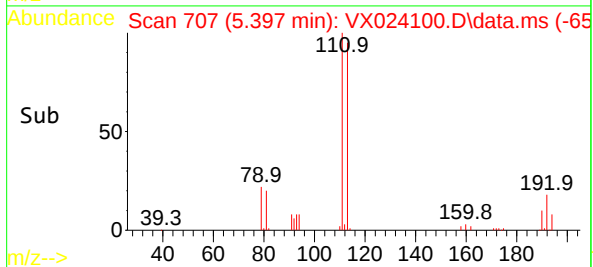
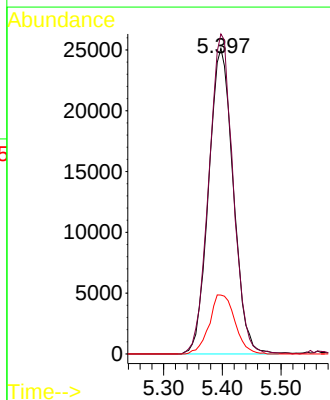
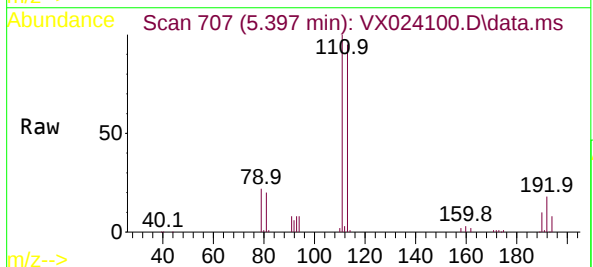
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

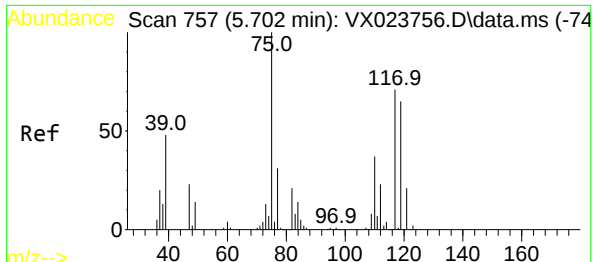
Tgt Ion:114 Resp: 222106  
Ion Ratio Lower Upper  
114 100  
63 21.8 0.0 40.8  
88 17.0 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.673 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion:113 Resp: 73023  
Ion Ratio Lower Upper  
113 100  
111 103.3 81.9 122.9  
192 20.1 16.7 25.1

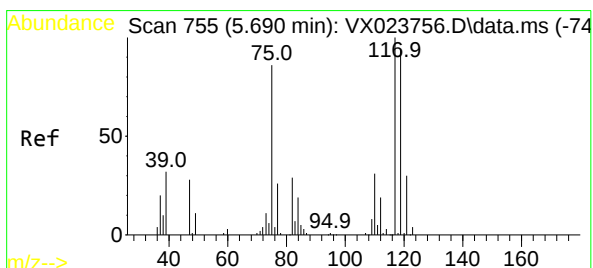
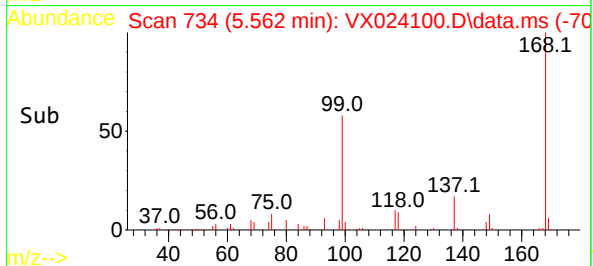
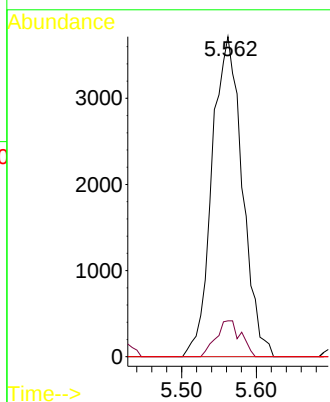
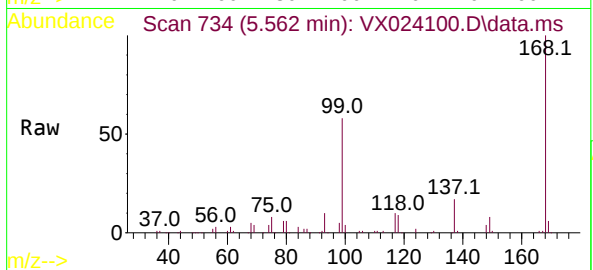




#36  
1,1-Dichloropropene  
Concen: 5.104 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

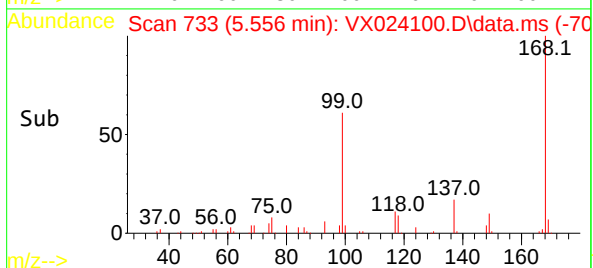
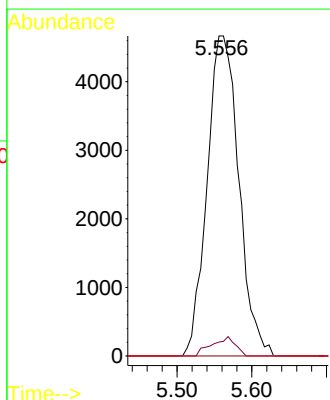
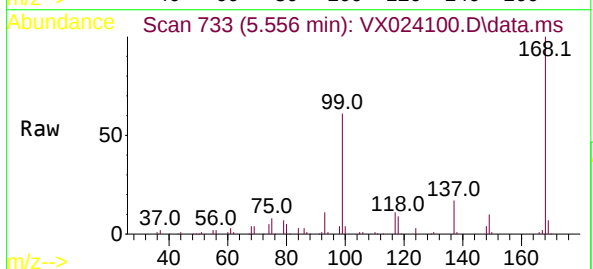
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

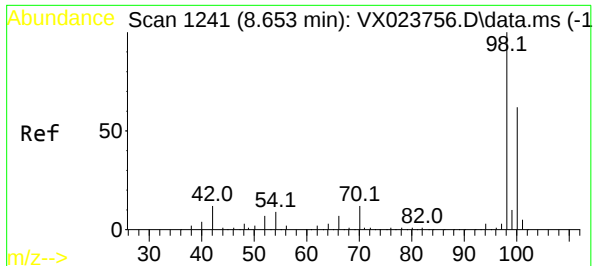
Tgt Ion: 75 Resp: 10498  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.414 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion: 117 Resp: 13757  
Ion Ratio Lower Upper  
117 100  
119 4.3 76.2 114.2#  
121 0.0 24.8 37.2#

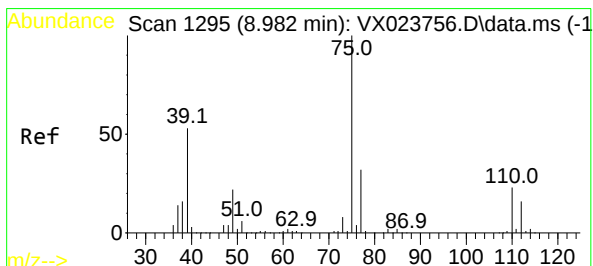
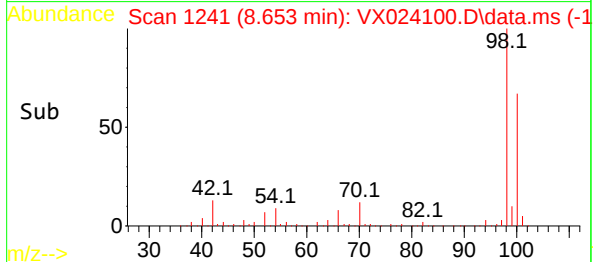
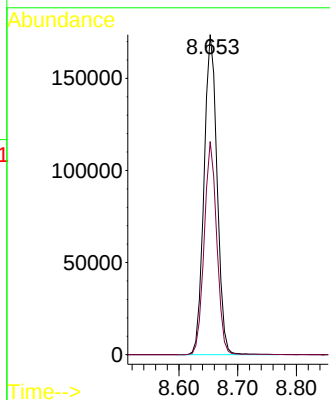
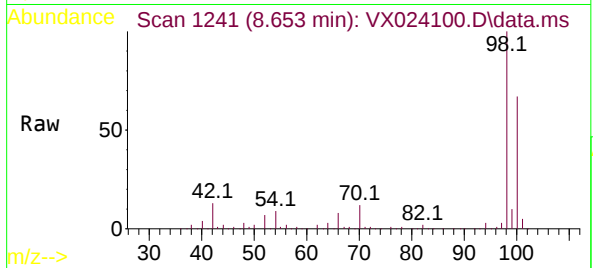




#50  
Toluene-d8  
Concen: 47.998 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

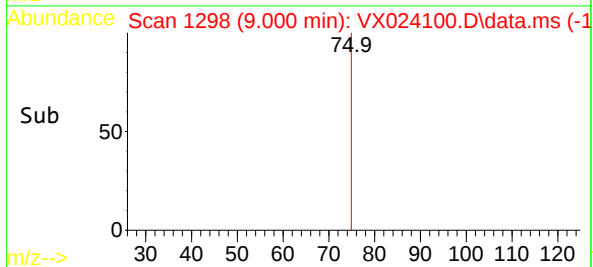
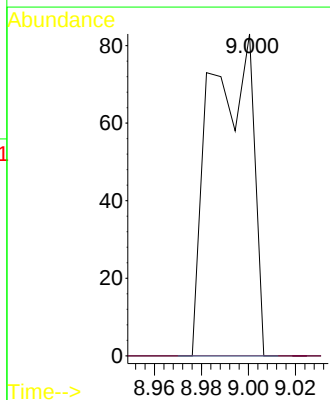
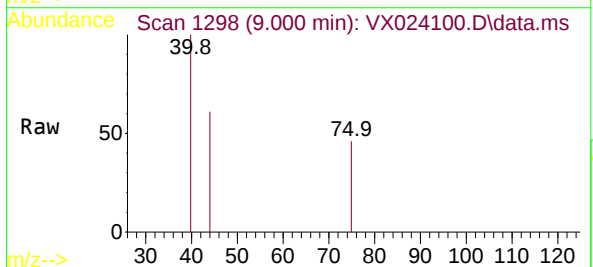
Instrument :  
MSVOA\_X  
ClientSampleId :  
93-94

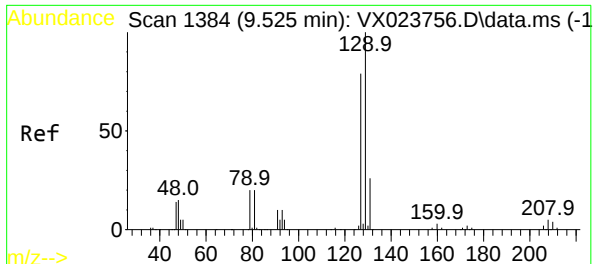
Tgt Ion: 98 Resp: 268558  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.9 77.9



#53  
t-1,3-Dichloropropene  
Concen: 2.175 ug/l  
RT: 9.000 min Scan# 1298  
Delta R.T. 0.018 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion: 75 Resp: 105  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.9 37.3#





#60

Dibromochloromethane

Concen: 1.747 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.256 min

Lab File: VX024100.D

Acq: 03 Sep 2021 14:18

Tgt Ion:129 Resp: 110

Ion Ratio Lower Upper

129 100

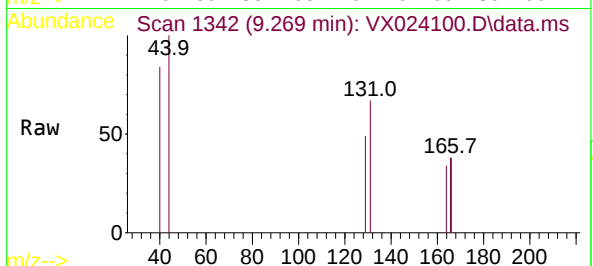
127 0.0 38.4 115.2#

Instrument :

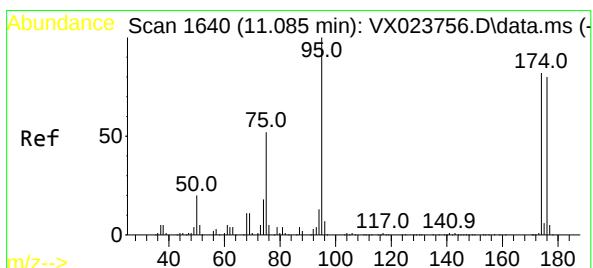
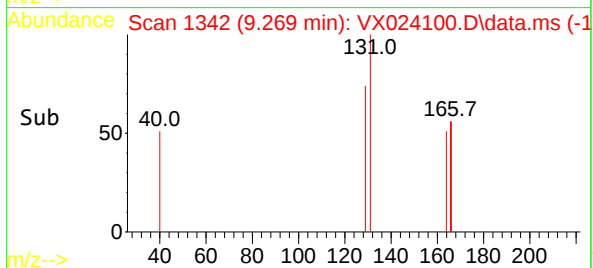
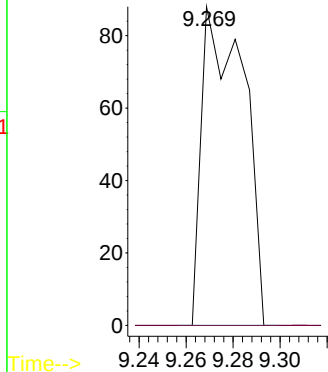
MSVOA\_X

ClientSampled :

93-94



Abundance



#62

4-Bromofluorobenzene

Concen: 47.206 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX024100.D

Acq: 03 Sep 2021 14:18

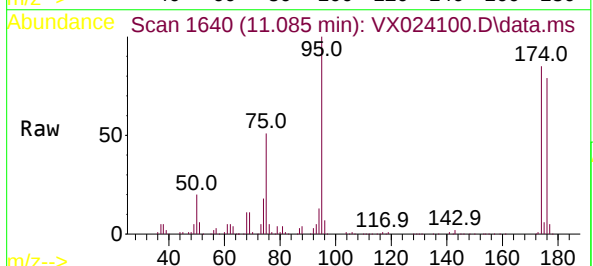
Tgt Ion: 95 Resp: 97232

Ion Ratio Lower Upper

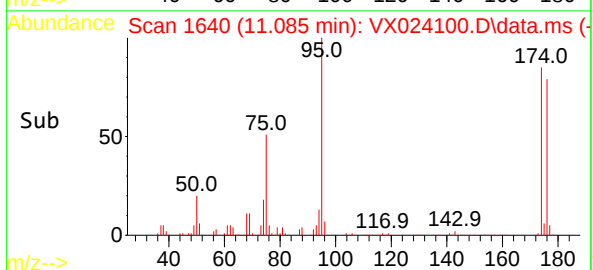
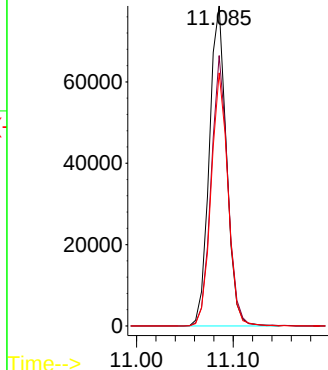
95 100

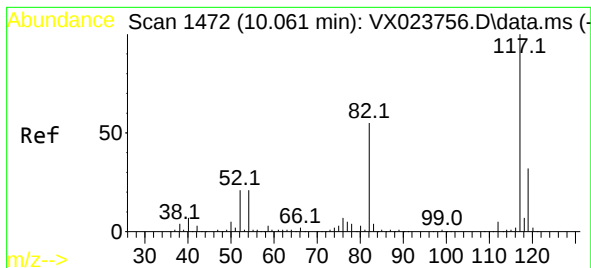
174 81.9 0.0 154.6

176 77.4 0.0 155.8



Abundance

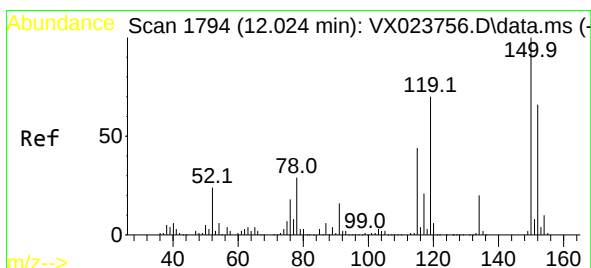
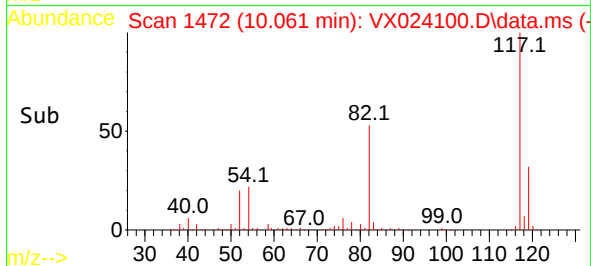
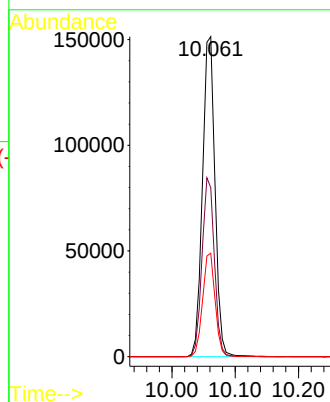
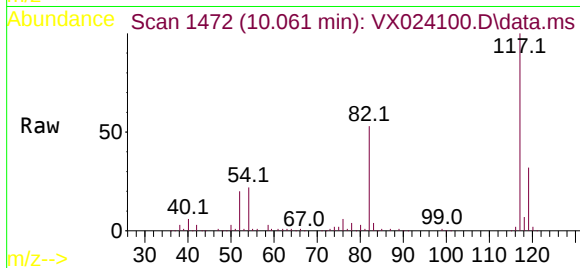




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

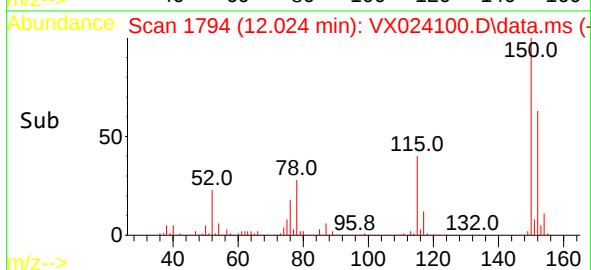
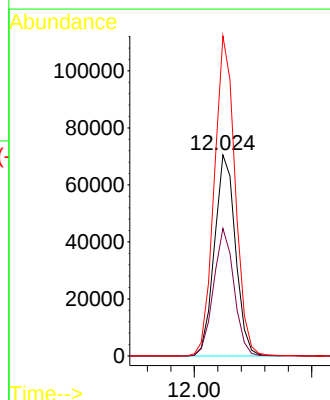
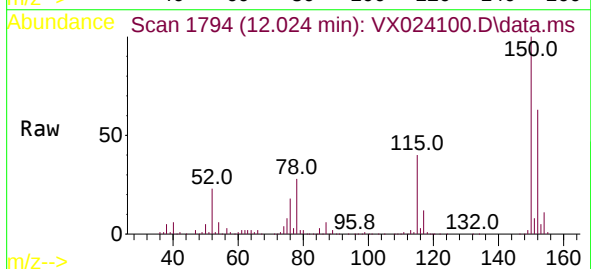
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

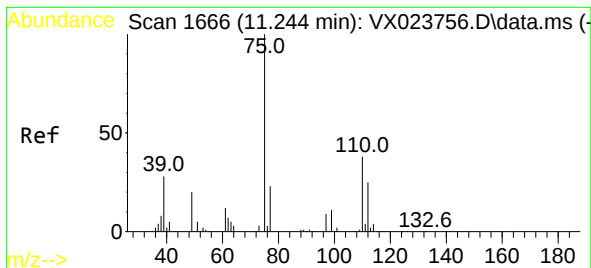
Tgt Ion:117 Resp: 209280  
Ion Ratio Lower Upper  
117 100  
82 52.8 47.4 71.2  
119 32.3 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion:152 Resp: 87600  
Ion Ratio Lower Upper  
152 100  
115 61.8 41.1 123.3  
150 157.9 0.0 349.0

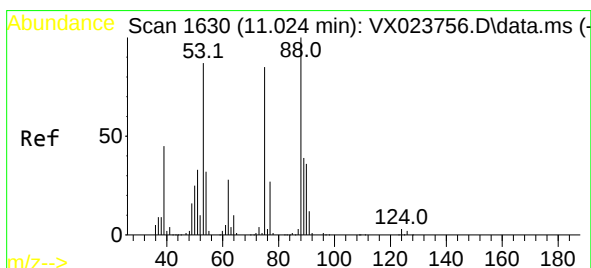
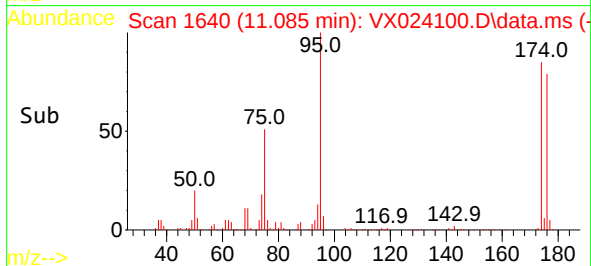
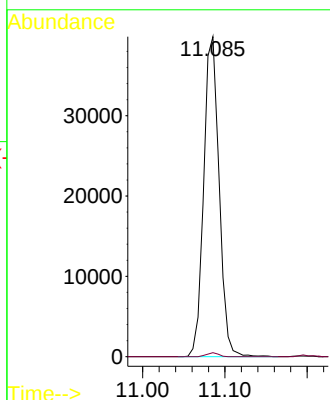
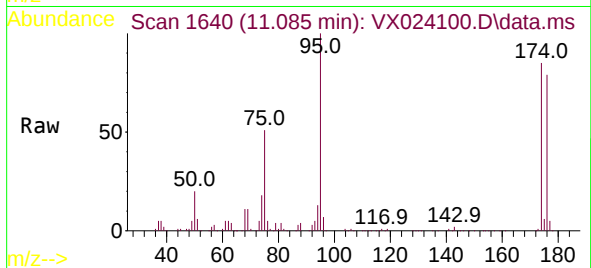




#76  
1,2,3-Trichloropropane  
Concen: 25.421 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

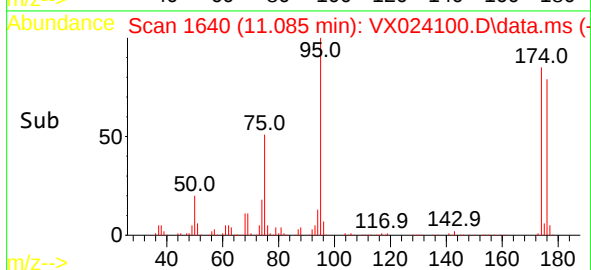
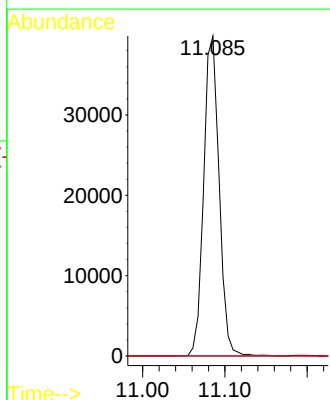
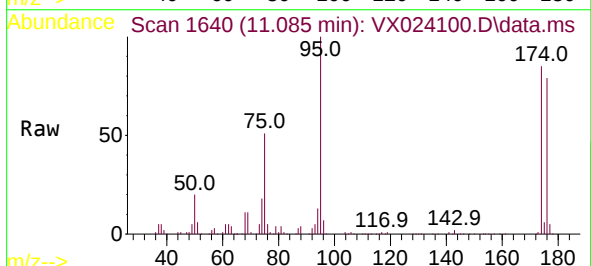
Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

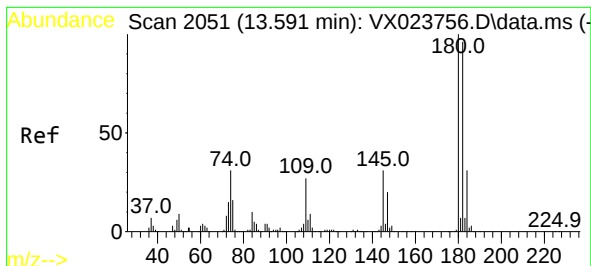
Tgt Ion: 75 Resp: 51947  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.777 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion: 75 Resp: 51947  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

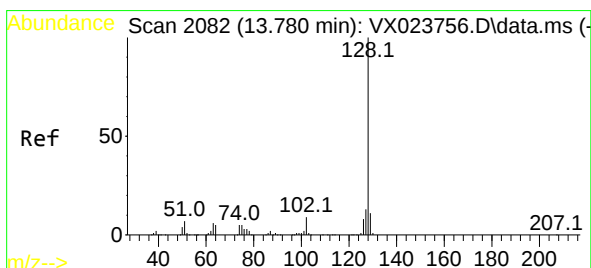
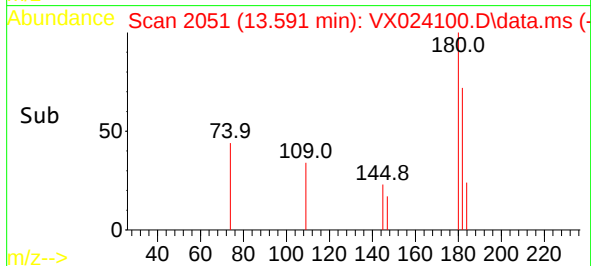
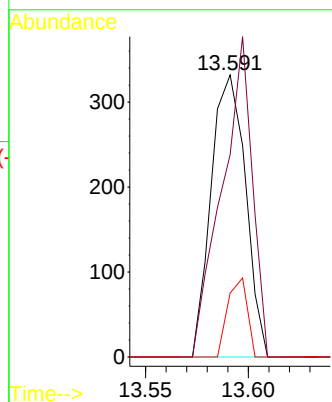
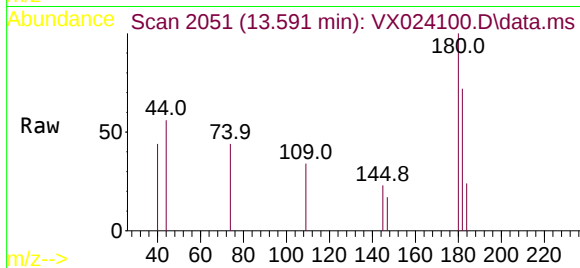




#93  
1,2,4-Trichlorobenzene  
Concen: 0.223 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Instrument :  
MSVOA\_X  
ClientSampled :  
93-94

Tgt Ion:180 Resp: 387  
Ion Ratio Lower Upper  
180 100  
182 99.7 47.7 143.1  
145 15.8 15.0 45.0



#95  
Naphthalene  
Concen: 1.393 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: VX024100.D  
Acq: 03 Sep 2021 14:18

Tgt Ion:128 Resp: 729  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 2.6 8.8 13.2#

