

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120221\  
 Data File : VX025434.D  
 Acq On : 02 Dec 2021 17:30  
 Operator : JC/MD  
 Sample : M4917-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 03 03:09:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

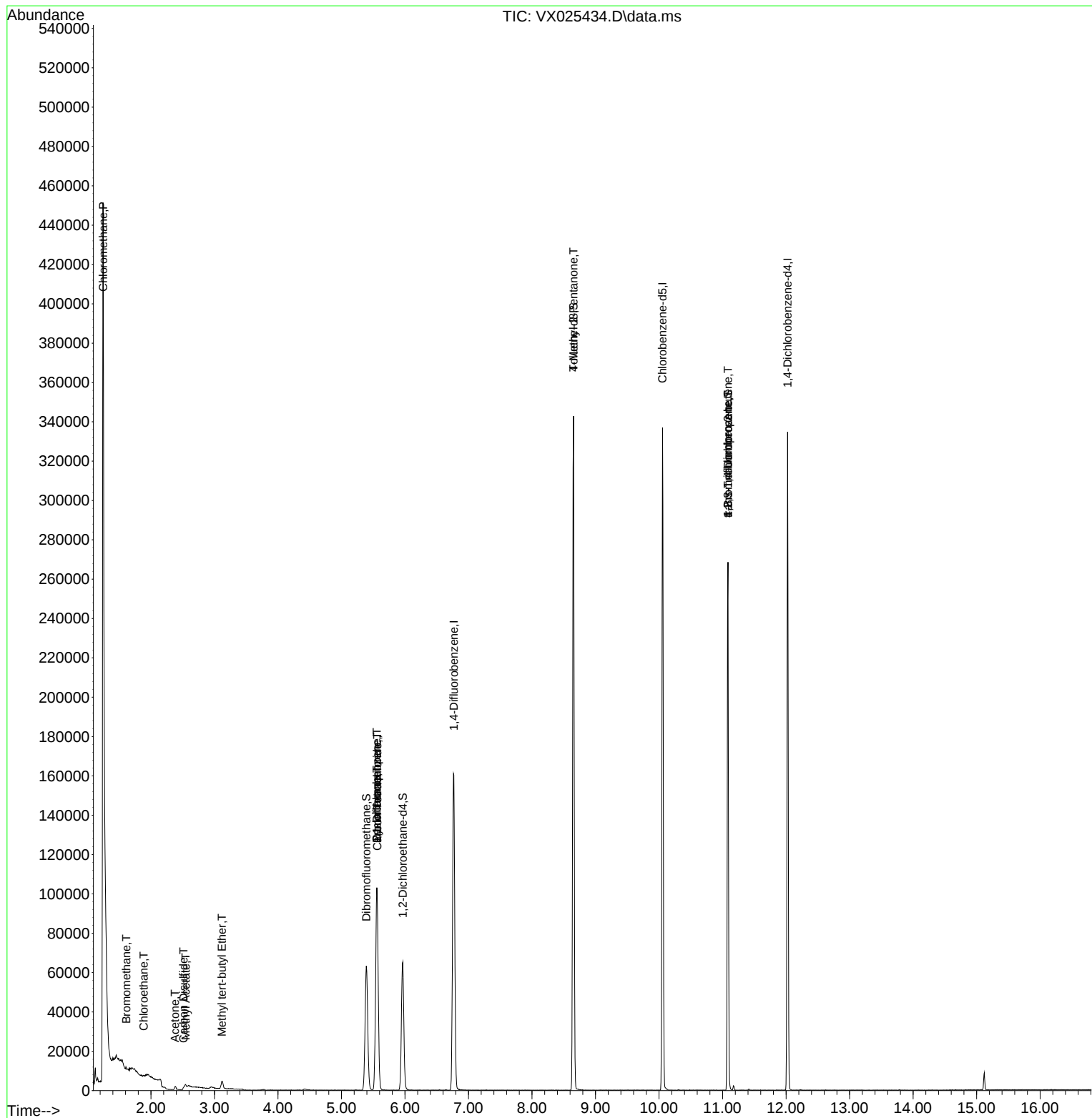
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 103808   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 175579   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 160263   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 70080    | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 61404    | 56.117    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 112.240% |          |
| 35) Dibromofluoromethane      | 5.391  | 113   | 55151    | 51.194    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 102.380% |          |
| 50) Toluene-d8                | 8.653  | 98    | 203105   | 50.143    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 100.280% |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 70509    | 46.014    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 92.020%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 1.246  | 50    | 14088    | 12.644    | ug/l #     | 42       |
| 5) Bromomethane               | 1.611  | 94    | 170      | 0.323     | ug/l #     | 70       |
| 6) Chloroethane               | 1.886  | 64    | 579      | 0.686     | ug/l #     | 45       |
| 11) Tert butyl alcohol        | 2.971  | 59    | 722      | Below Cal | #          | 72       |
| 16) Acetone                   | 2.380  | 43    | 2002     | 3.293     | ug/l       | 96       |
| 17) Carbon Disulfide          | 2.514  | 76    | 1987     | 0.734     | ug/l #     | 92       |
| 18) Methyl Acetate            | 2.544  | 43    | 608      | 0.313     | ug/l #     | 52       |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 4404     | 1.314     | ug/l       | 94       |
| 31) Cyclohexane               | 5.556  | 56    | 1912     | 1.131     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6723     | 4.389     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 9801     | 5.809     | ug/l #     | 17       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 812      | 0.446     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 33881    | 23.609    | ug/l #     | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 33881    | 59.475    | ug/l #     | 9        |
| 95) Naphthalene               | 13.780 | 128   | 228      | Below Cal | #          | 69       |
| -----                         |        |       |          |           |            |          |

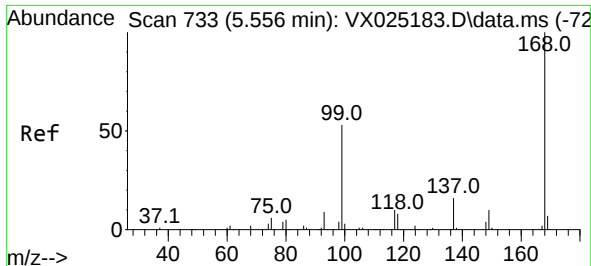
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120221\  
Data File : VX025434.D  
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Sample : M4917-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

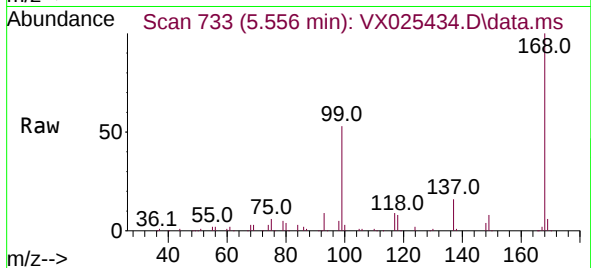
Quant Time: Dec 03 03:09:12 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration



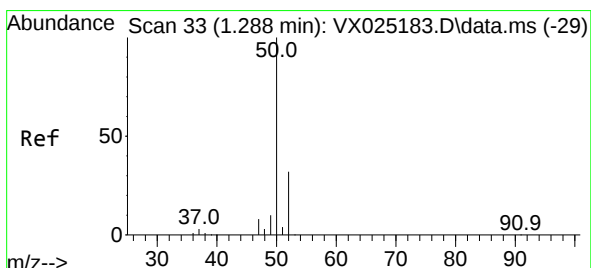
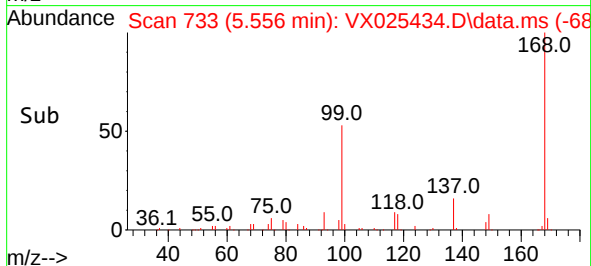
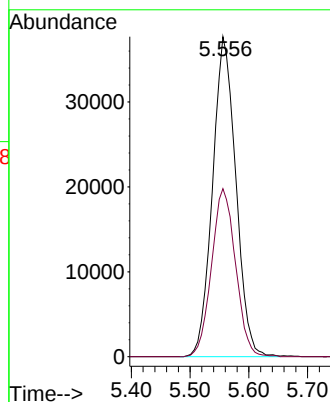


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Instrument :  
MSVOA\_X  
ClientSampleId :

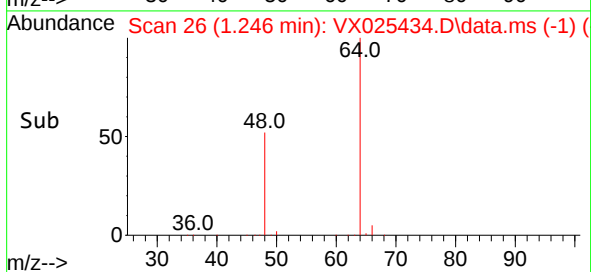
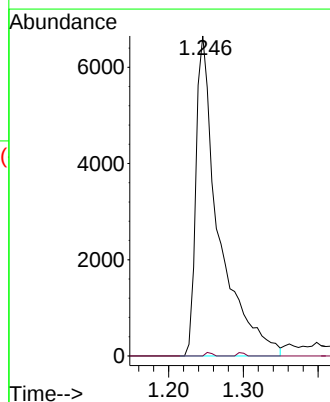
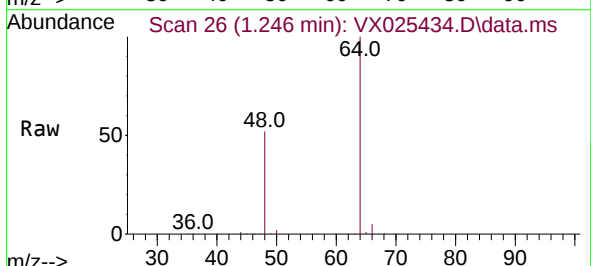


Tgt Ion:168 Resp: 103808  
Ion Ratio Lower Upper  
168 100  
99 52.5 46.4 69.6



#3  
Chloromethane  
Concen: 12.644 ug/l  
RT: 1.246 min Scan# 26  
Delta R.T. -0.042 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 50 Resp: 14088  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.9 38.9#

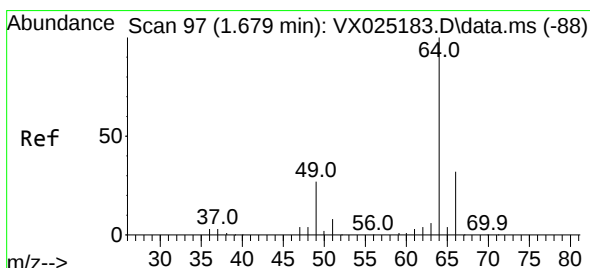
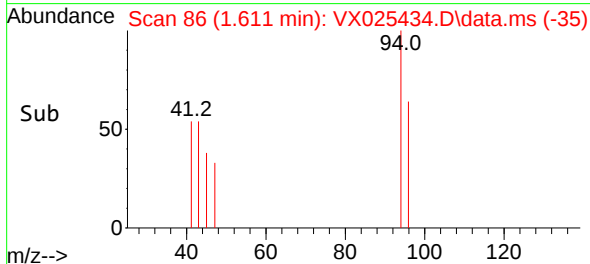
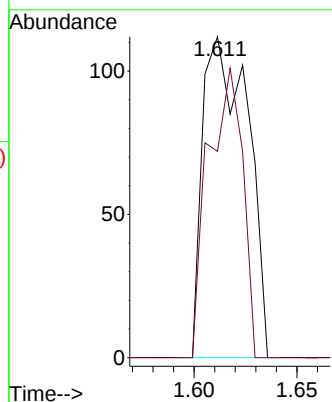
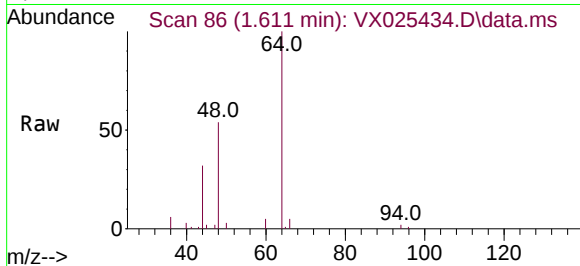




#5  
Bromomethane  
Concen: 0.323 ug/l  
RT: 1.611 min Scan# 80  
Delta R.T. 0.012 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

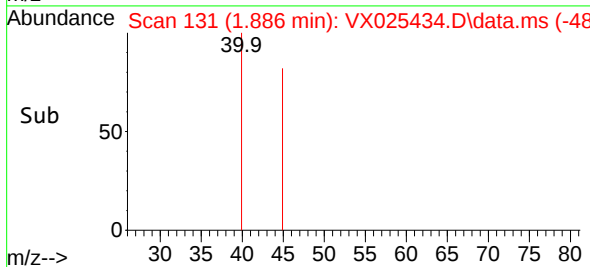
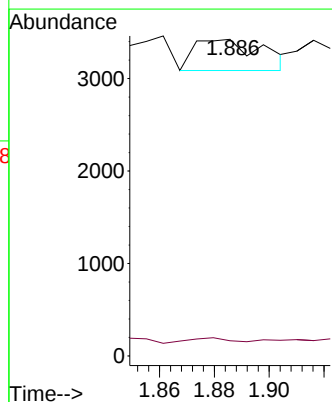
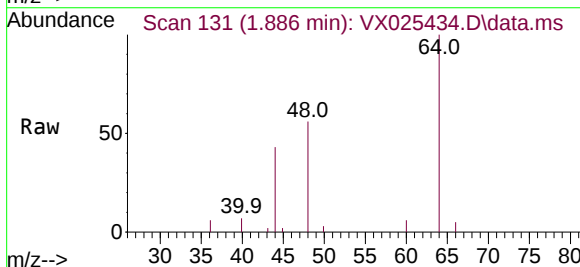
Instrument :  
MSVOA\_X  
ClientSampleId :

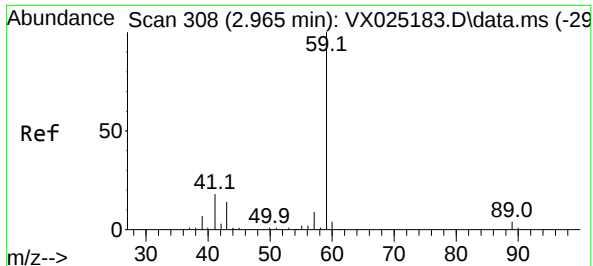
Tgt Ion: 94 Resp: 170  
Ion Ratio Lower Upper  
94 100  
96 64.3 74.8 112.2#



#6  
Chloroethane  
Concen: 0.686 ug/l  
RT: 1.886 min Scan# 131  
Delta R.T. 0.207 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 64 Resp: 579  
Ion Ratio Lower Upper  
64 100  
66 1.2 25.6 38.4#

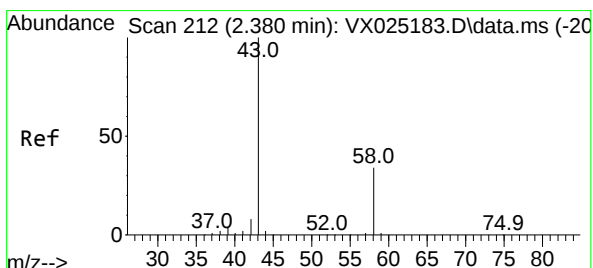
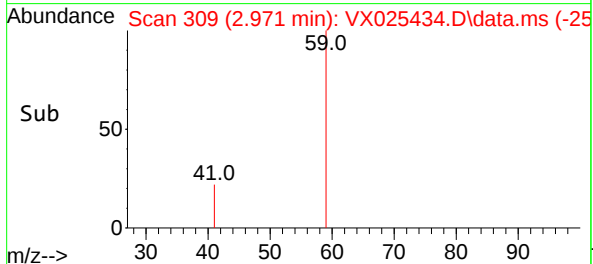
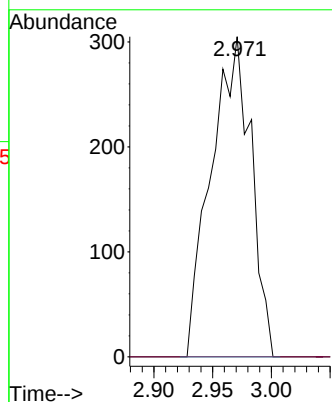
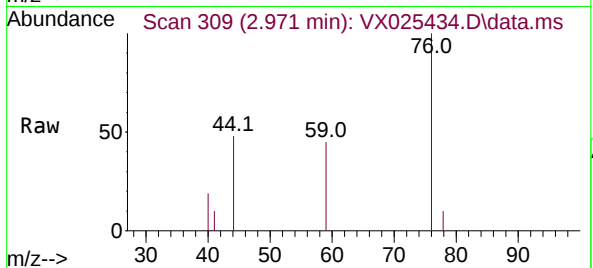




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.971 min Scan# 30  
Delta R.T. 0.006 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

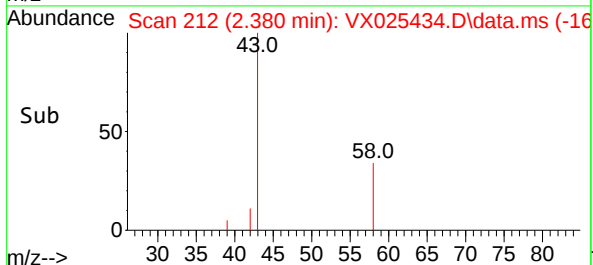
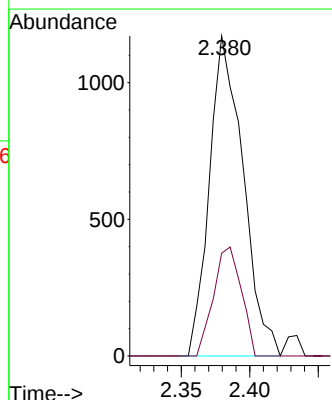
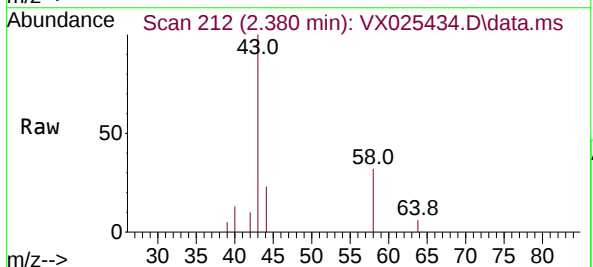
Instrument :  
MSVOA\_X  
ClientSampleId :

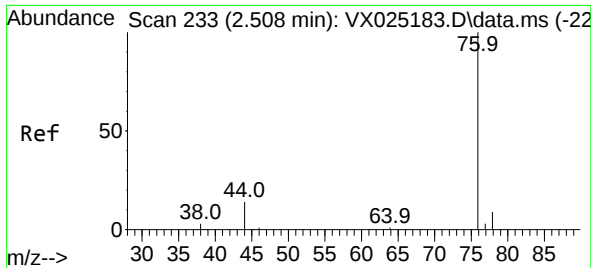
Tgt Ion: 59 Resp: 722  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#16  
Acetone  
Concen: 3.293 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

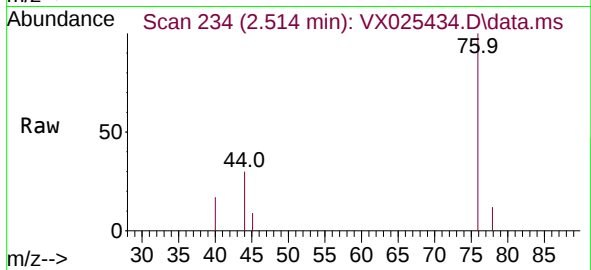
Tgt Ion: 43 Resp: 2002  
Ion Ratio Lower Upper  
43 100  
58 32.1 24.0 36.0



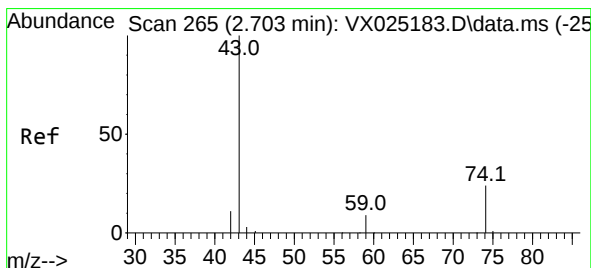
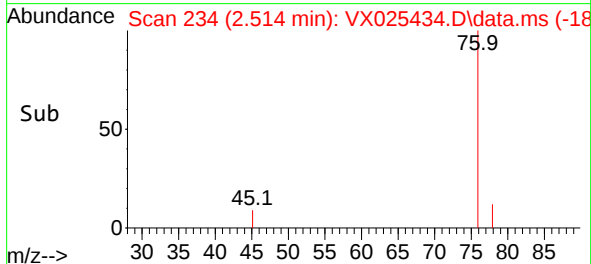
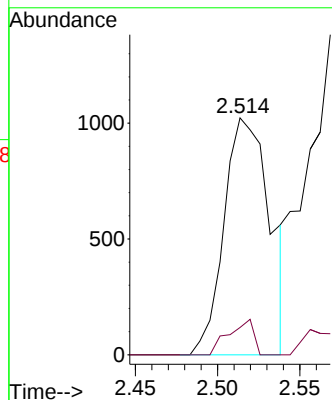


#17  
Carbon Disulfide  
Concen: 0.734 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Instrument :  
MSVOA\_X  
ClientSampleId :

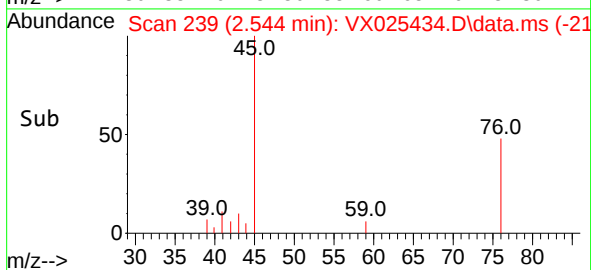
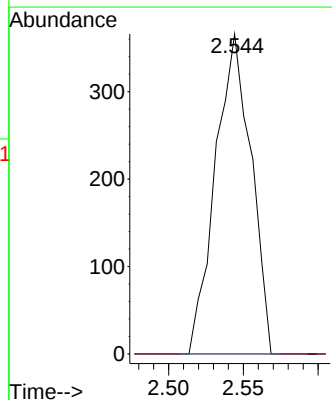
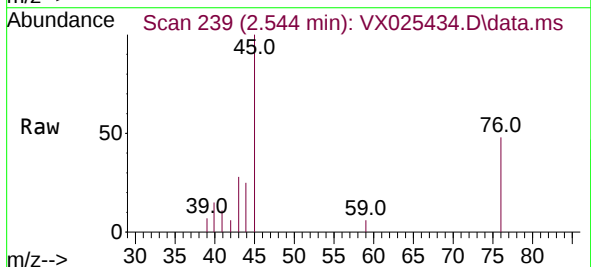


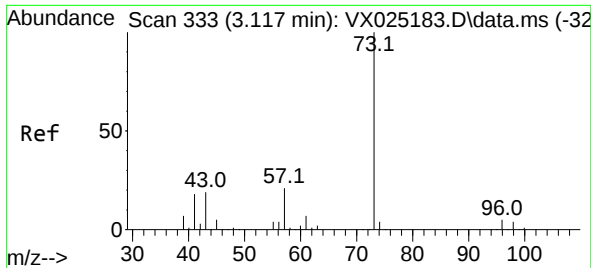
Tgt Ion: 76 Resp: 1987  
Ion Ratio Lower Upper  
76 100  
78 11.5 6.9 10.3#



#18  
Methyl Acetate  
Concen: 0.313 ug/l  
RT: 2.544 min Scan# 239  
Delta R.T. -0.159 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 43 Resp: 608  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.6#

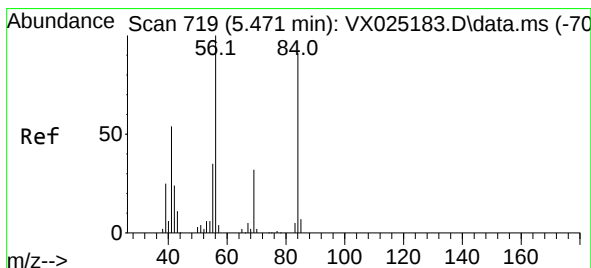
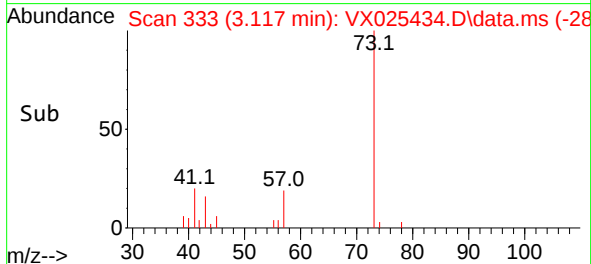
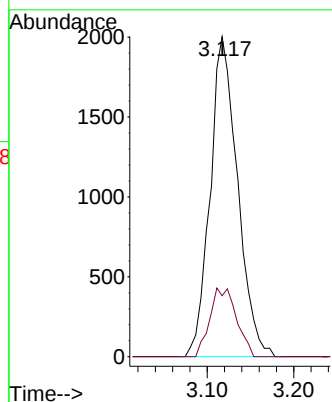
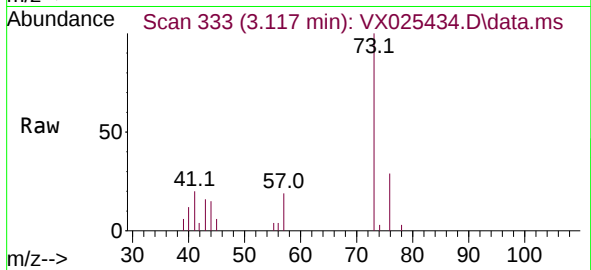




#19  
Methyl tert-butyl Ether  
Concen: 1.314 ug/l  
RT: 3.117 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

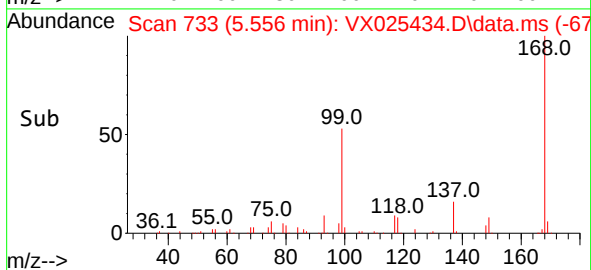
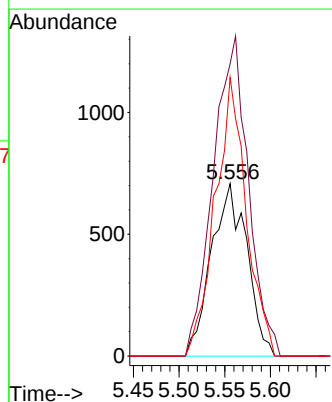
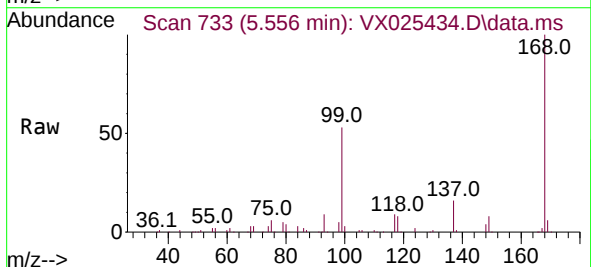
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MSVOA\_X  
ClientSampleId :

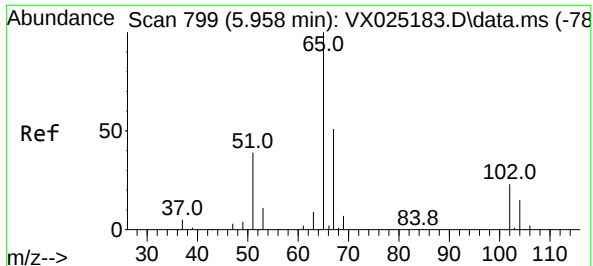
Tgt Ion: 73 Resp: 4404  
Ion Ratio Lower Upper  
73 100  
57 19.1 17.5 26.3



#31  
Cyclohexane  
Concen: 1.131 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 56 Resp: 1912  
Ion Ratio Lower Upper  
56 100  
69 169.5 24.2 36.2#  
84 161.4 71.5 107.3#





#33

1,2-Dichloroethane-d4

Concen: 56.117 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX025434.D

Acq: 02 Dec 2021 17:30

Instrument :

MSVOA\_X

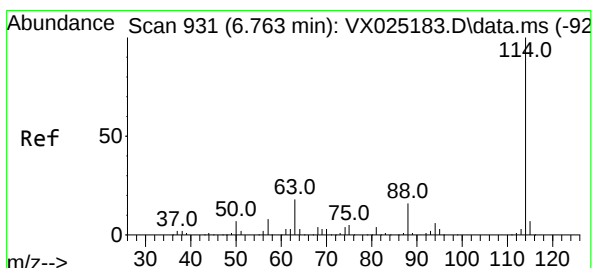
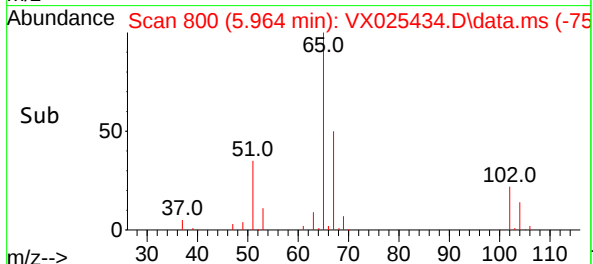
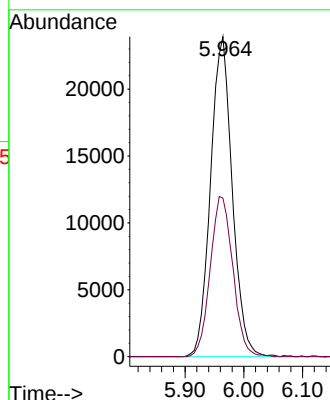
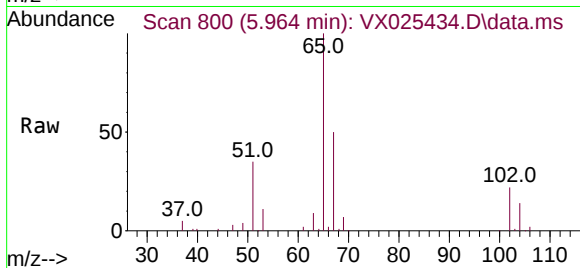
ClientSampleId :

Tgt Ion: 65 Resp: 61404

Ion Ratio Lower Upper

65 100

67 52.1 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX025434.D

Acq: 02 Dec 2021 17:30

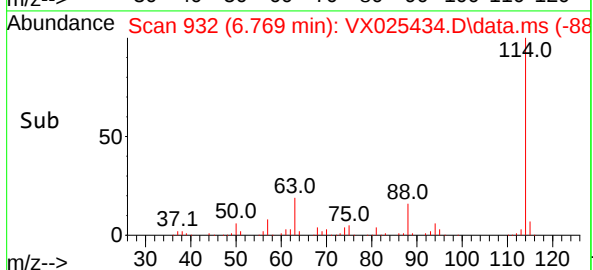
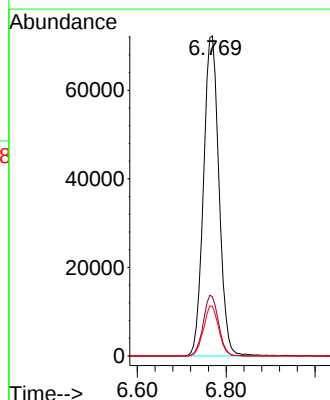
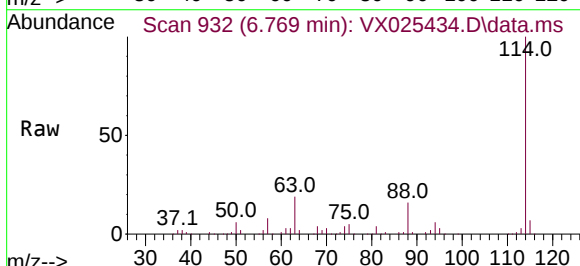
Tgt Ion: 114 Resp: 175579

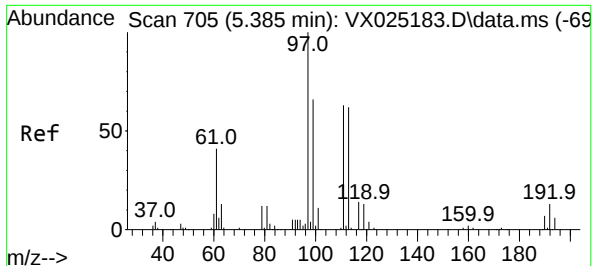
Ion Ratio Lower Upper

114 100

63 18.6 0.0 41.0

88 15.6 0.0 34.8





#35

Dibromofluoromethane

Concen: 51.194 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

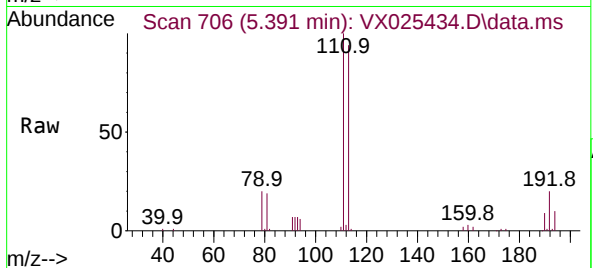
Lab File: VX025434.D

Acq: 02 Dec 2021 17:30

Instrument :

MSVOA\_X

ClientSampleId :



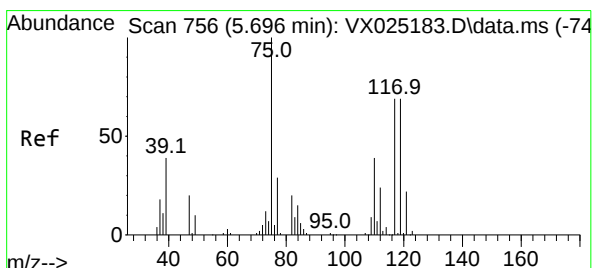
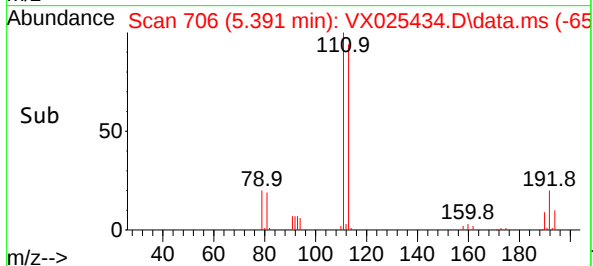
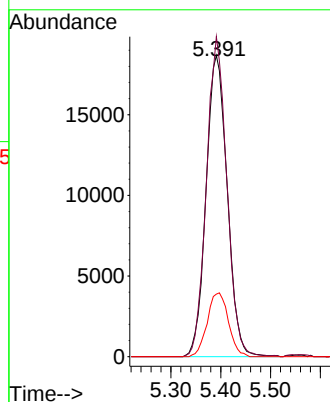
Tgt Ion:113 Resp: 55151

Ion Ratio Lower Upper

113 100

111 102.0 82.1 123.1

192 21.2 15.6 23.4



#36

1,1-Dichloropropene

Concen: 4.389 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX025434.D

Acq: 02 Dec 2021 17:30

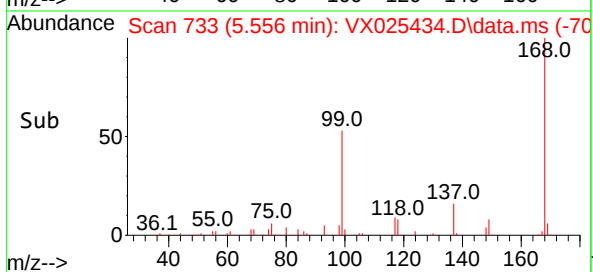
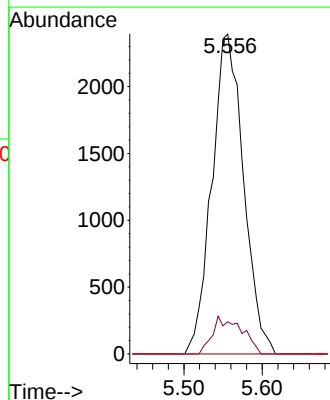
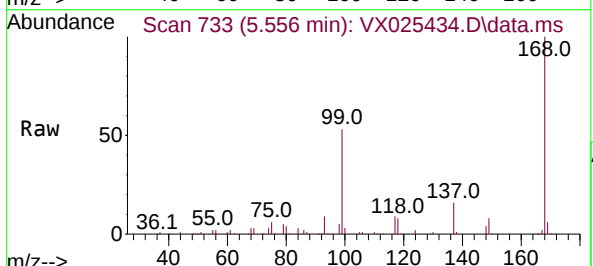
Tgt Ion: 75 Resp: 6723

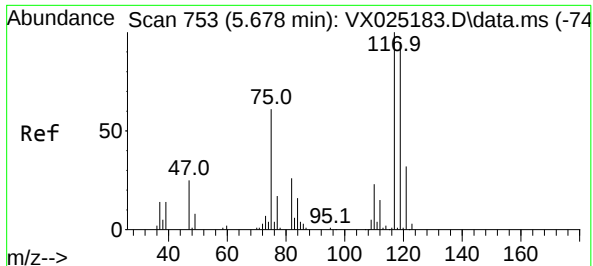
Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.3#

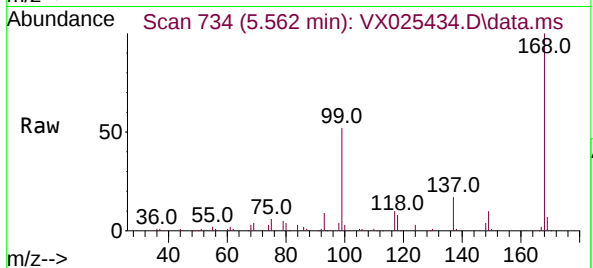
77 0.0 24.4 36.6#



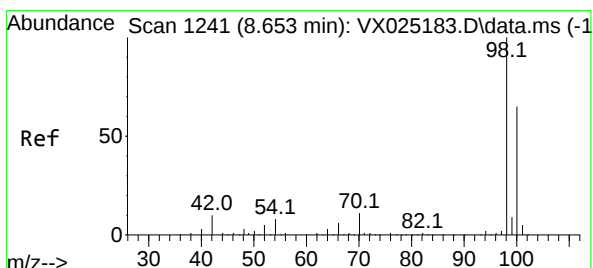
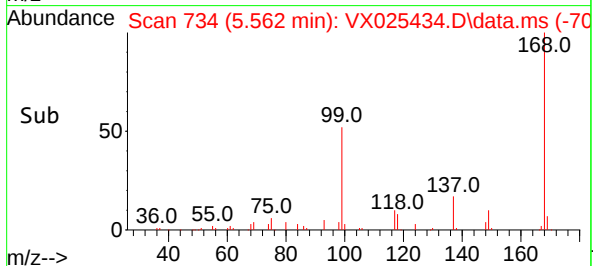
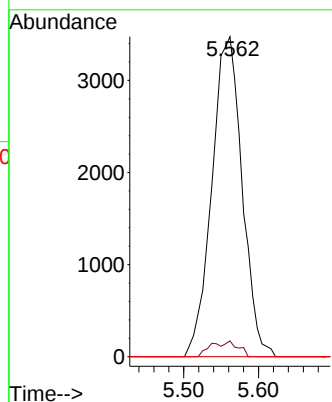


#38  
Carbon Tetrachloride  
Concen: 5.809 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.116 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Instrument :  
MSVOA\_X  
ClientSampleId :

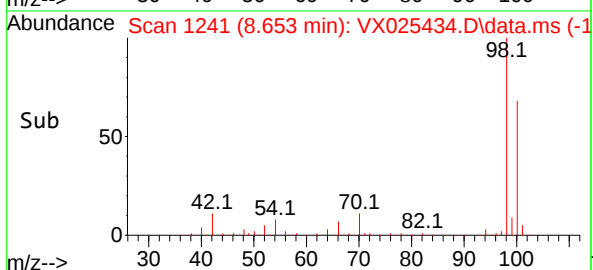
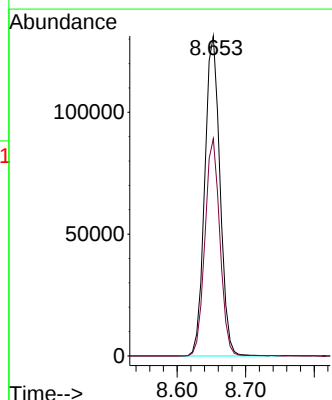
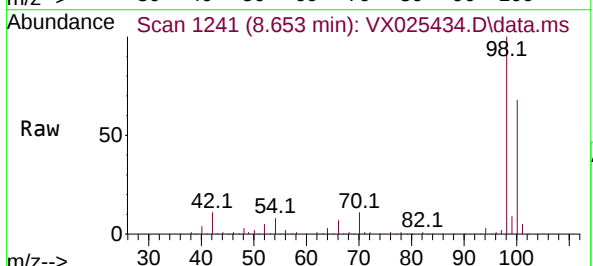


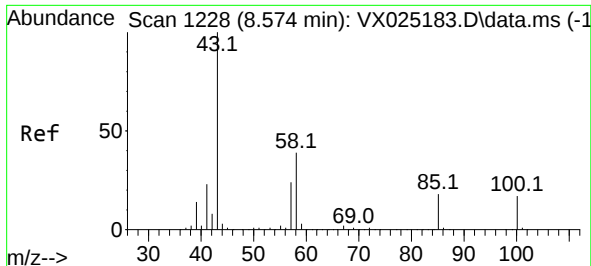
Tgt Ion:117 Resp: 9801  
Ion Ratio Lower Upper  
117 100  
119 5.0 75.6 113.4#  
121 0.0 23.7 35.5#



#50  
Toluene-d8  
Concen: 50.143 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 98 Resp: 203105  
Ion Ratio Lower Upper  
98 100  
100 66.7 51.4 77.0

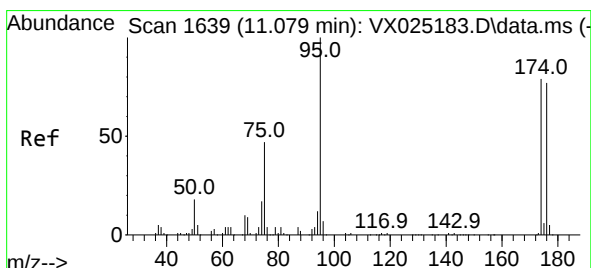
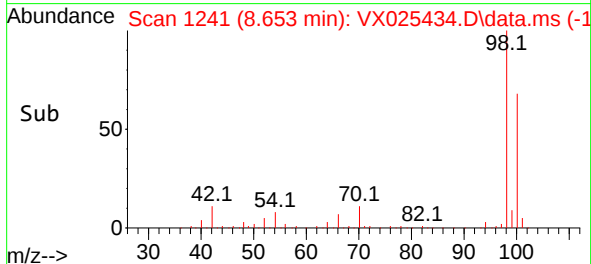
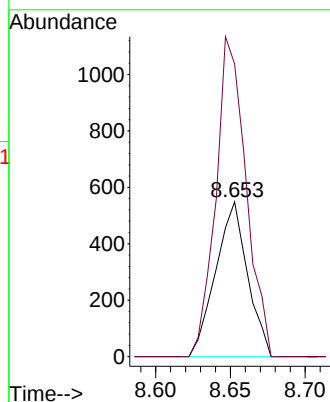
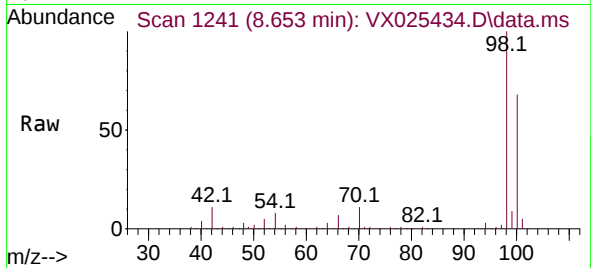




#51  
4-Methyl-2-Pentanone  
Concen: 0.446 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.079 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

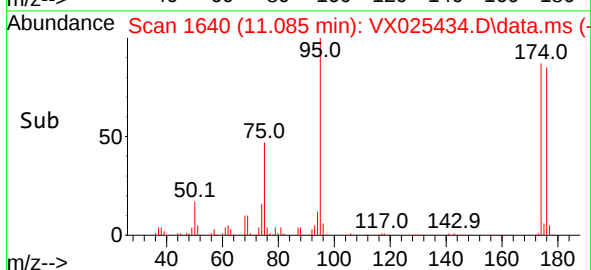
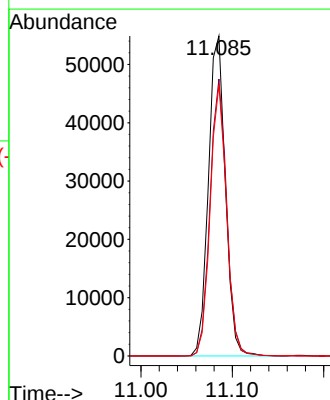
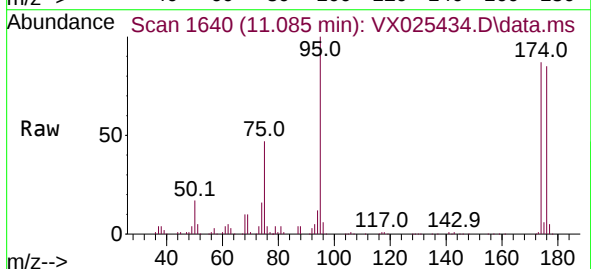
Instrument :  
MSVOA\_X  
ClientSampleId :

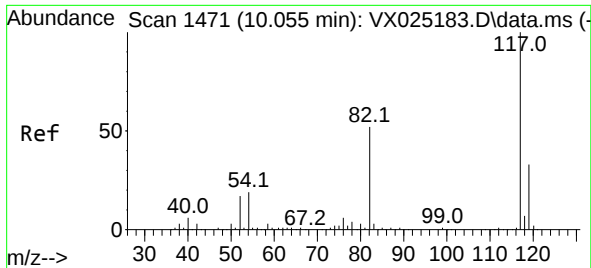
Tgt Ion: 43 Resp: 812  
Ion Ratio Lower Upper  
43 100  
58 196.1 30.9 46.3#



#62  
4-Bromofluorobenzene  
Concen: 46.014 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.006 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 95 Resp: 70509  
Ion Ratio Lower Upper  
95 100  
174 85.1 0.0 158.0  
176 81.7 0.0 153.6

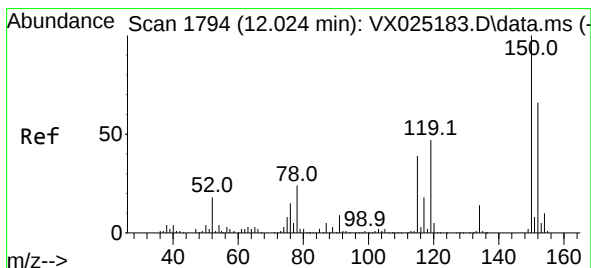
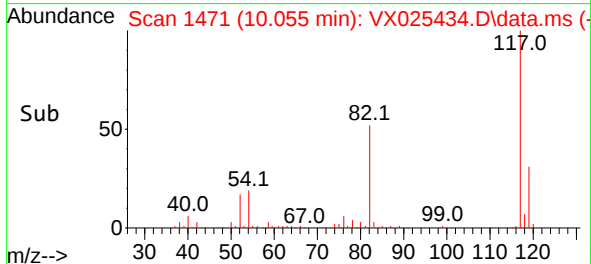
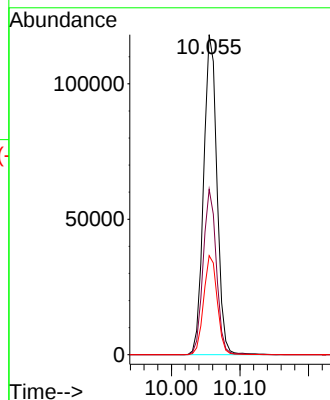
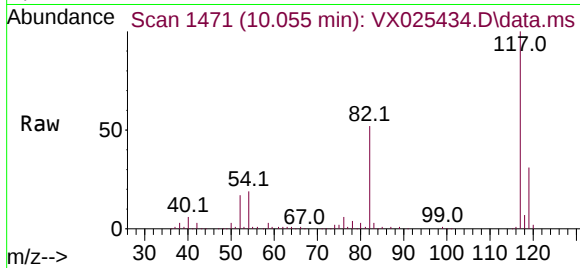




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

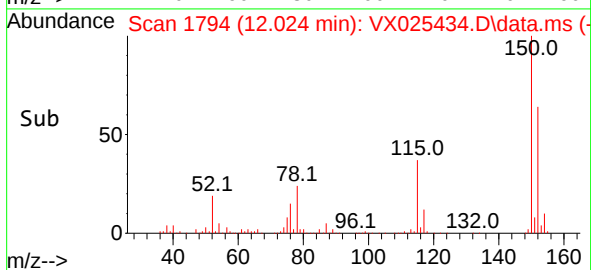
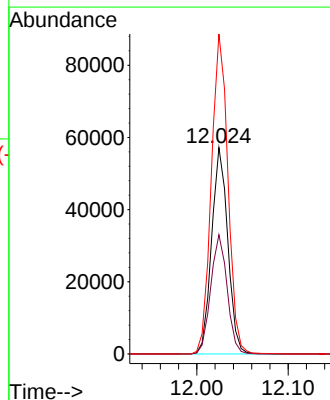
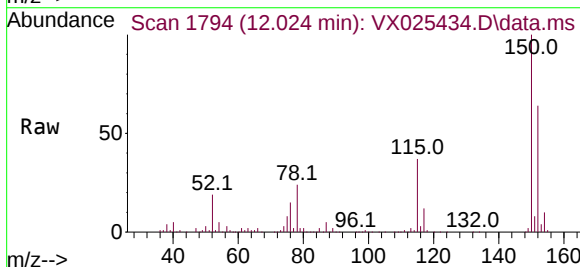
Instrument :  
MSVOA\_X  
ClientSampleId :

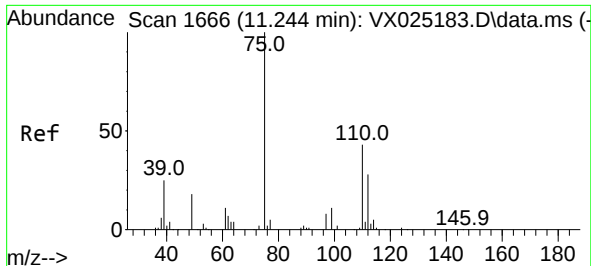
Tgt Ion:117 Resp: 160263  
Ion Ratio Lower Upper  
117 100  
82 51.7 44.6 67.0  
119 31.0 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion:152 Resp: 70080  
Ion Ratio Lower Upper  
152 100  
115 58.5 43.3 129.8  
150 159.1 0.0 351.2

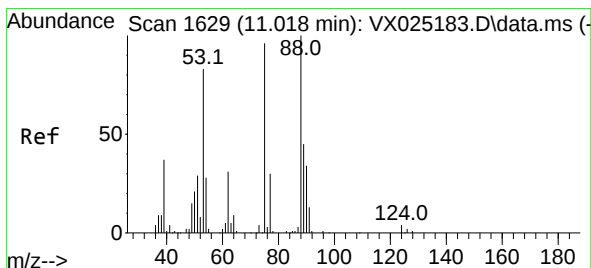
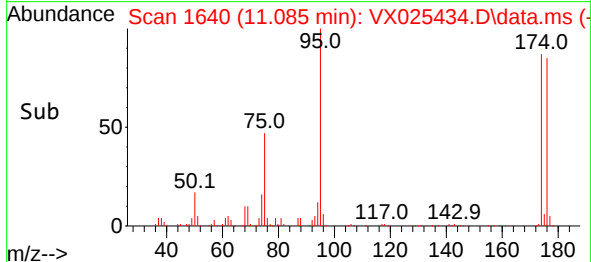
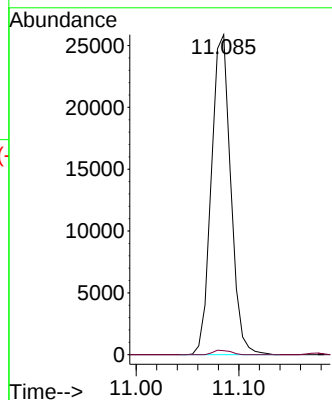
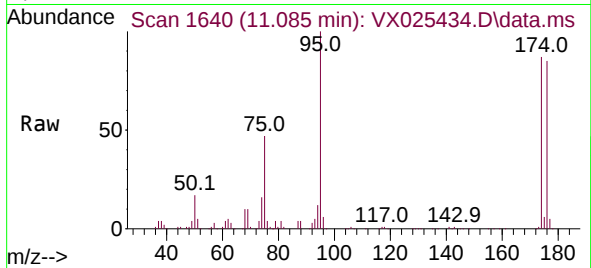




#76  
1,2,3-Trichloropropane  
Concen: 23.609 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

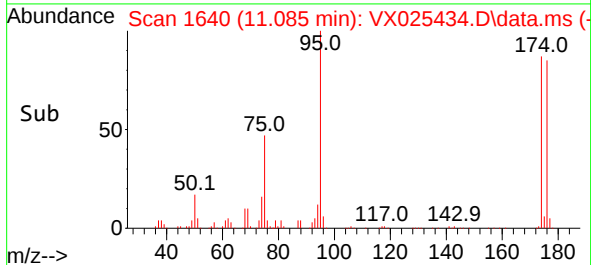
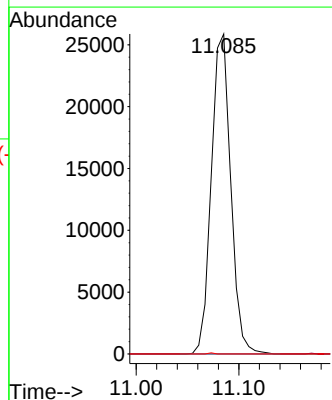
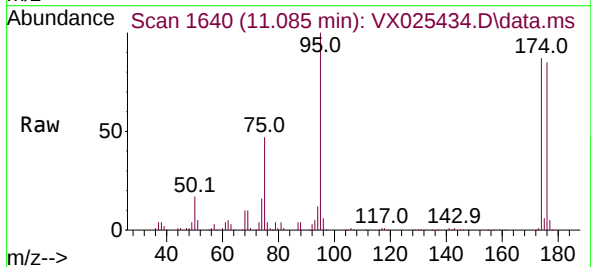
Instrument :  
MSVOA\_X  
ClientSampleId :

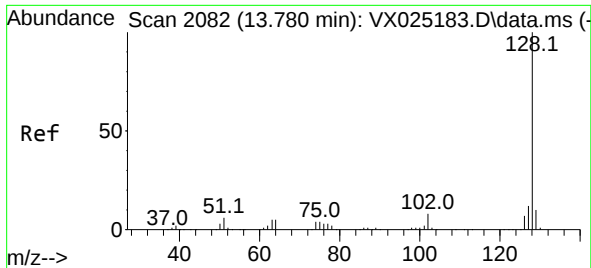
Tgt Ion: 75 Resp: 33881  
Ion Ratio Lower Upper  
75 100  
77 1.3 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 59.475 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX025434.D  
Acq: 02 Dec 2021 17:30

Tgt Ion: 75 Resp: 33881  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.1 38.2 57.2#





#95

Naphthalene

Concen: Below Cal

RT: 13.780 min Scan# 20

Delta R.T. -0.000 min

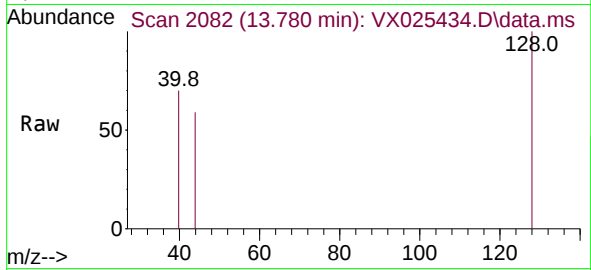
Lab File: VX025434.D

Acq: 02 Dec 2021 17:30

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:128 Resp: 228

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#

