

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021122\  
 Data File : VD071944.D  
 Acq On : 11 Feb 2022 18:44  
 Operator : VA/SY  
 Sample : N1494-02  
 Misc : 5.01G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 12 00:00:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012622S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 27 06:04:38 2022  
 Response via : Initial Calibration

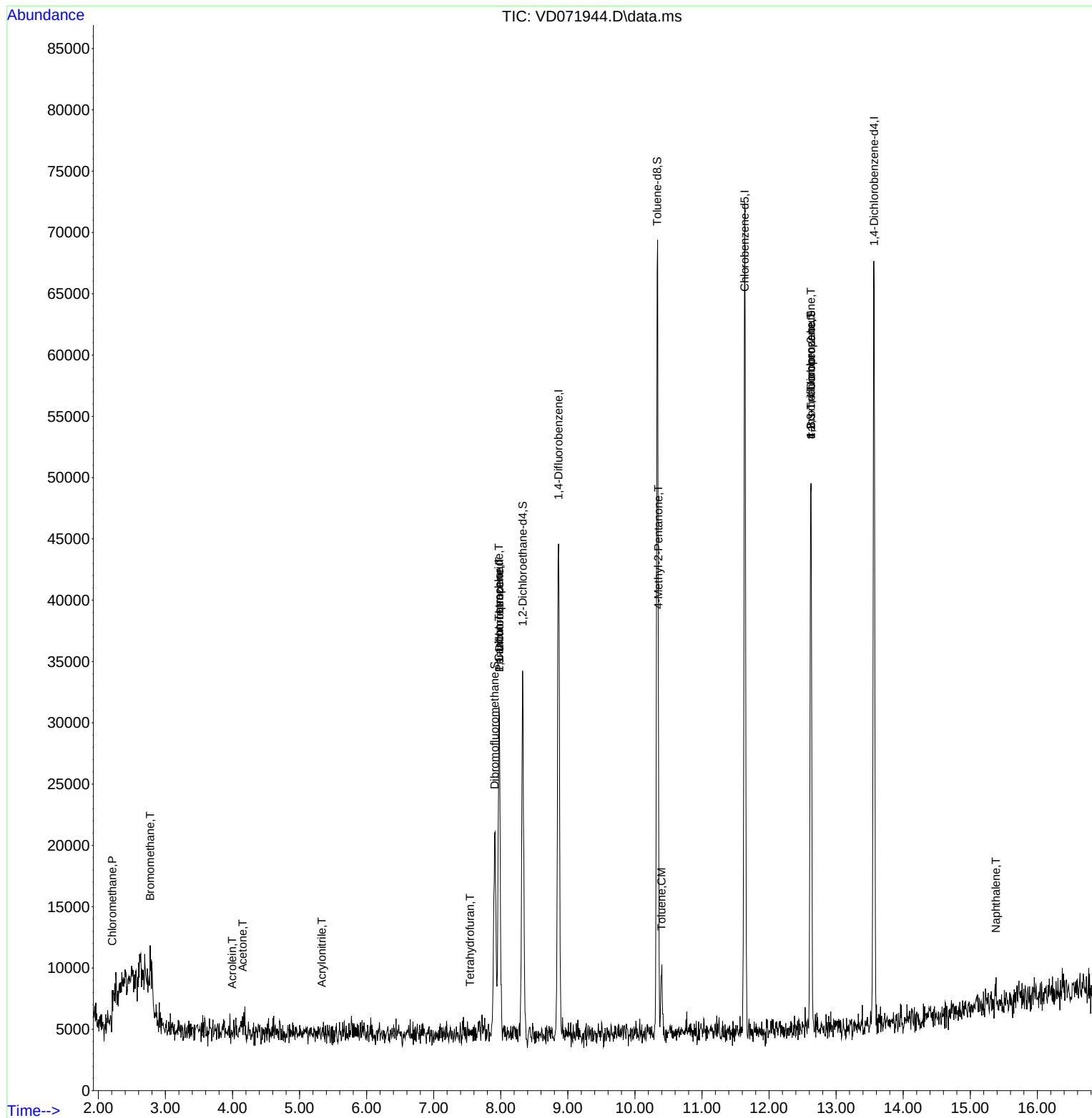
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 17668    | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 32625    | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 34892    | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 16080    | 50.000    | ug/l        | 0.00     |
|                               |        |       |          |           |             |          |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 21320    | 95.471    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 190.940%# |          |
| 35) Dibromofluoromethane      | 7.908  | 113   | 10811    | 50.412    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.820%  |          |
| 50) Toluene-d8                | 10.332 | 98    | 41357    | 51.637    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 103.280%  |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 14839    | 53.055    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 106.120%  |          |
|                               |        |       |          |           |             |          |
| Target Compounds              |        |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 2.209  | 50    | 474      | 1.890     | ug/l #      | 40       |
| 5) Bromomethane               | 2.773  | 94    | 726      | 4.190     | ug/l #      | 60       |
| 11) Tert butyl alcohol        | 5.150  | 59    | 55       | Below Cal | #           | 74       |
| 13) Acrolein                  | 3.997  | 56    | 73       | 3.680     | ug/l #      | 14       |
| 15) Acrylonitrile             | 5.332  | 53    | 58       | 1.149     | ug/l #      | 17       |
| 16) Acetone                   | 4.150  | 43    | 825      | 13.496    | ug/l #      | 55       |
| 29) Tetrahydrofuran           | 7.544  | 42    | 65       | 1.542     | ug/l #      | 38       |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 1124     | 3.054     | ug/l #      | 43       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 2179     | 5.986     | ug/l #      | 13       |
| 51) 4-Methyl-2-Pentanone      | 10.349 | 43    | 161      | 1.000     | ug/l #      | 1        |
| 52) Toluene                   | 10.397 | 92    | 1803     | 2.918     | ug/l #      | 64       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 8382     | 49.462    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 8382     | 121.616   | ug/l #      | 7        |
| 95) Naphthalene               | 15.384 | 128   | 1420     | 3.922     | ug/l #      | 86       |
| -----                         |        |       |          |           |             |          |

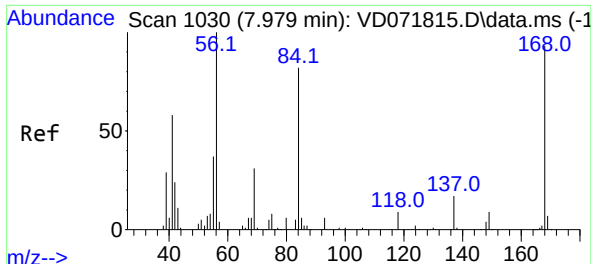
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N1494-02  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Feb 12 00:00:36 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012622S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 27 06:04:38 2022  
Response via : Initial Calibration

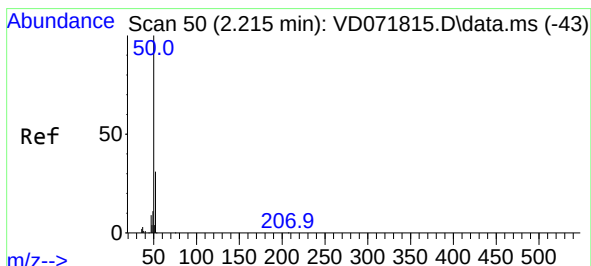
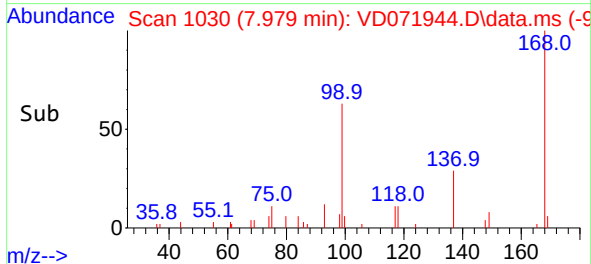
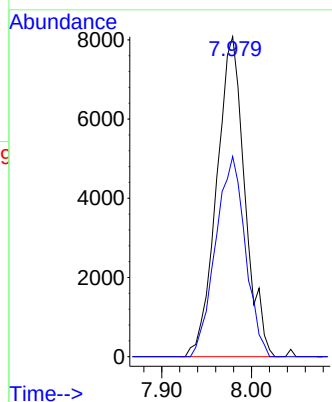
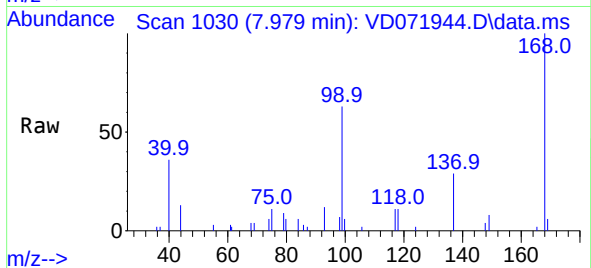




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

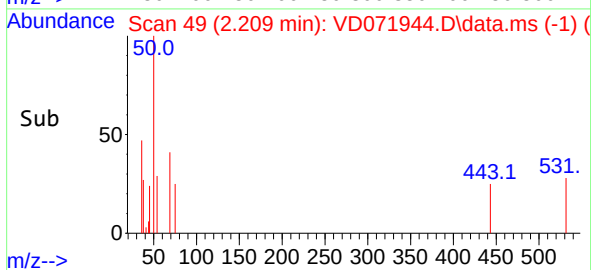
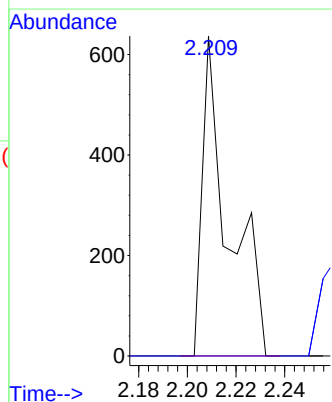
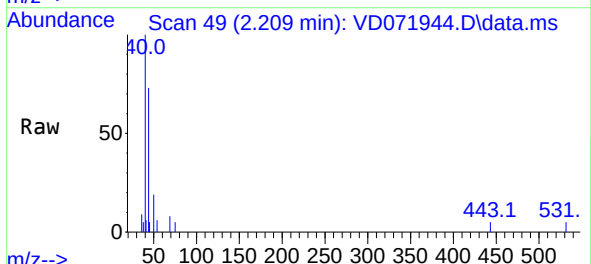
Instrument :  
MSVOA\_D  
ClientSampleId :

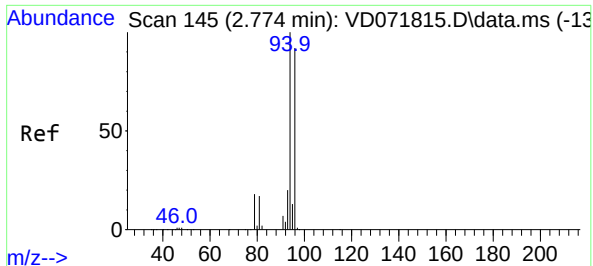
Tgt Ion:168 Resp: 17668  
Ion Ratio Lower Upper  
168 100  
99 62.5 49.8 74.6



#3  
Chloromethane  
Concen: 1.890 ug/l  
RT: 2.209 min Scan# 49  
Delta R.T. -0.006 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion: 50 Resp: 474  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.4 41.0#

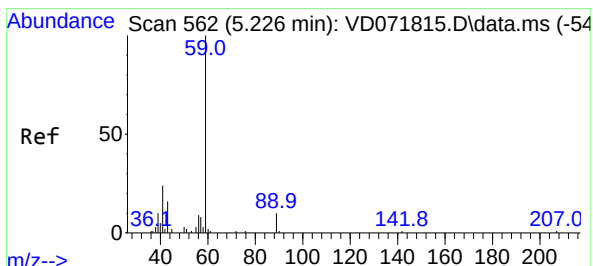
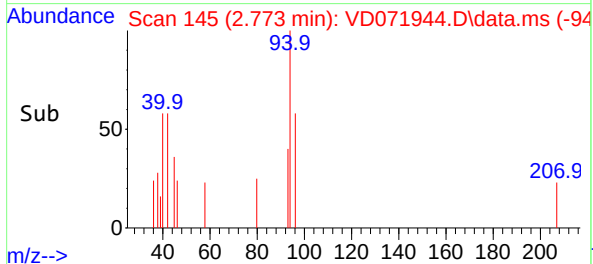
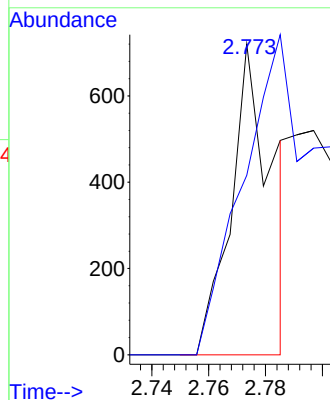
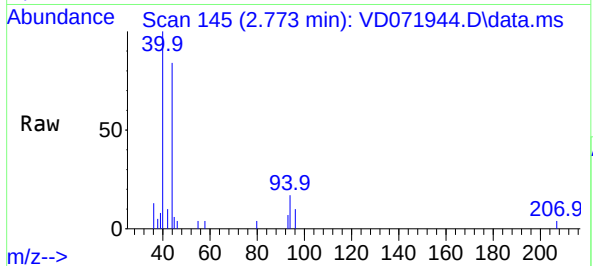




#5  
Bromomethane  
Concen: 4.190 ug/l  
RT: 2.773 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

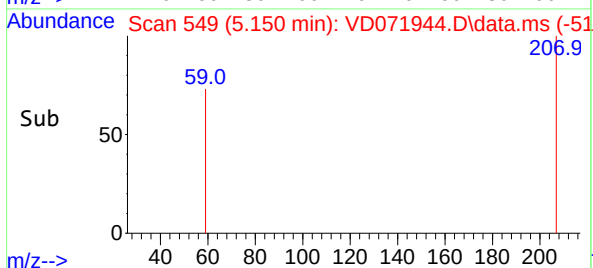
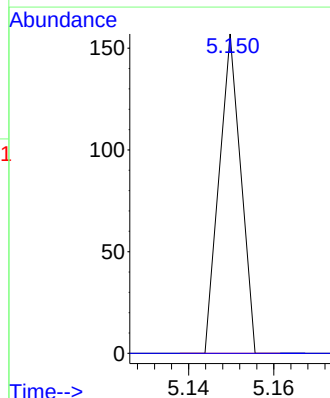
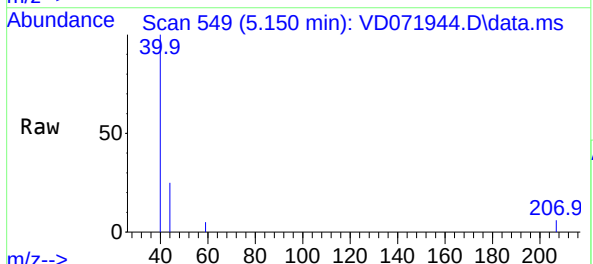
Instrument :  
MSVOA\_D  
ClientSampleId :

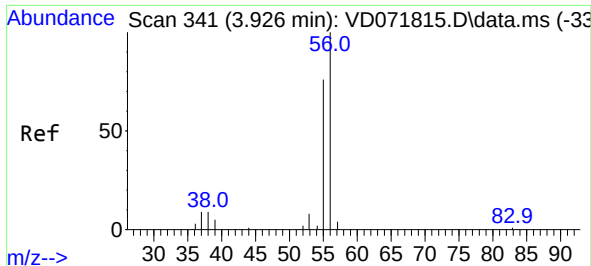
Tgt Ion: 94 Resp: 726  
Ion Ratio Lower Upper  
94 100  
96 57.8 77.6 116.4#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.150 min Scan# 549  
Delta R.T. -0.071 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion: 59 Resp: 55  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#

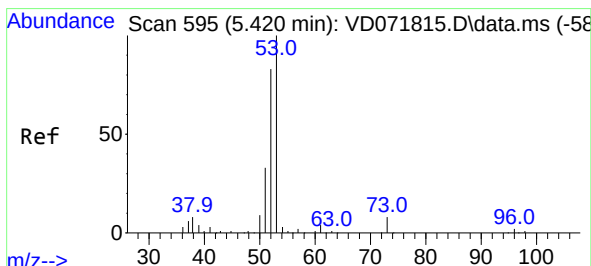
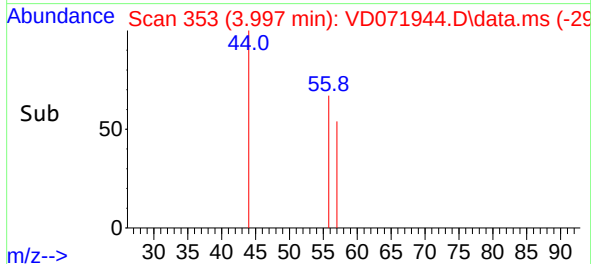
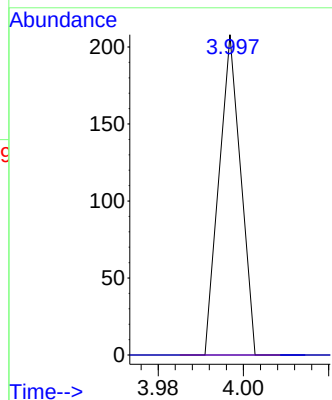
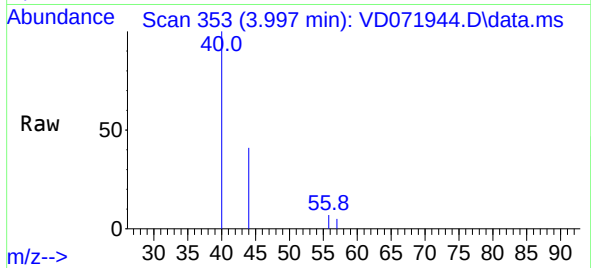




#13  
Acrolein  
Concen: 3.680 ug/l  
RT: 3.997 min Scan# 31  
Delta R.T. 0.071 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

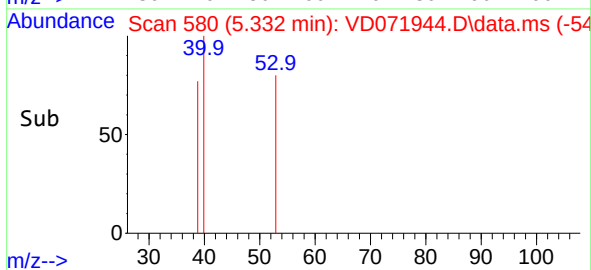
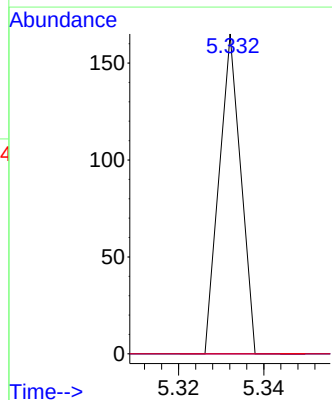
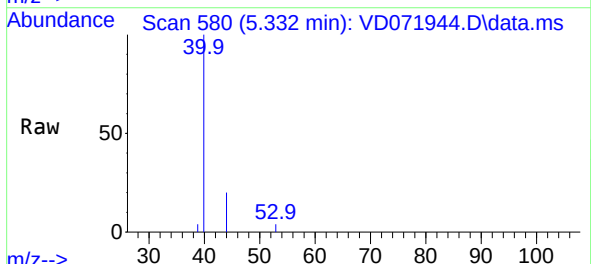
Instrument :  
MSVOA\_D  
ClientSampleId :

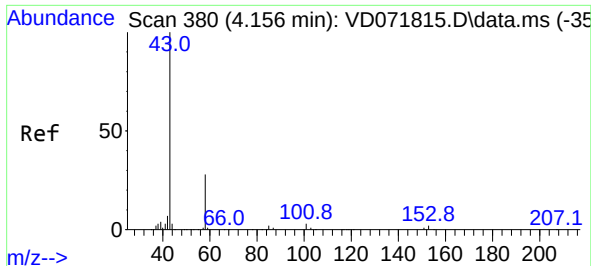
Tgt Ion: 56 Resp: 73  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#15  
Acrylonitrile  
Concen: 1.149 ug/l  
RT: 5.332 min Scan# 580  
Delta R.T. -0.088 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion: 53 Resp: 58  
Ion Ratio Lower Upper  
53 100  
52 0.0 67.2 100.8#  
51 0.0 30.3 45.5#

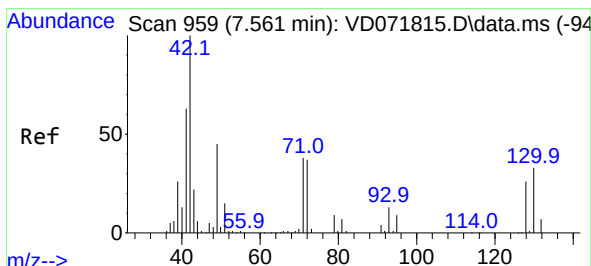
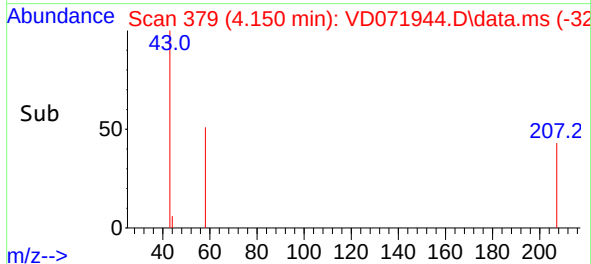
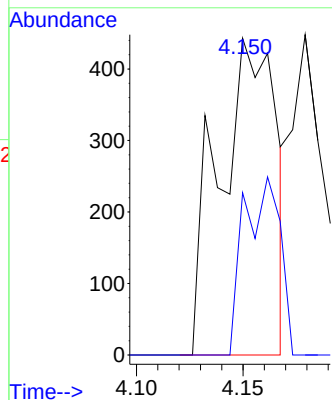
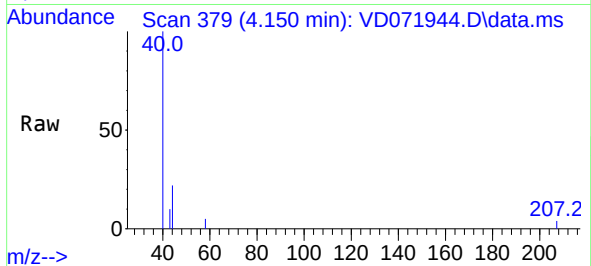




#16  
Acetone  
Concen: 13.496 ug/l  
RT: 4.150 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

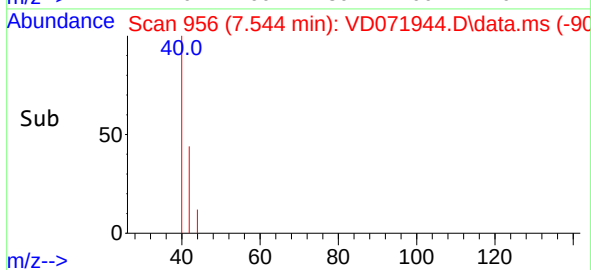
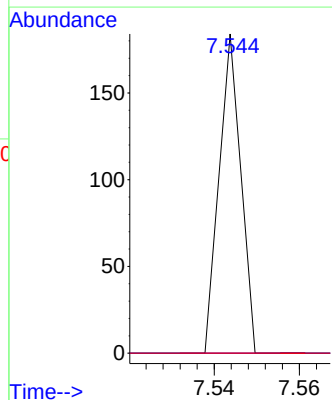
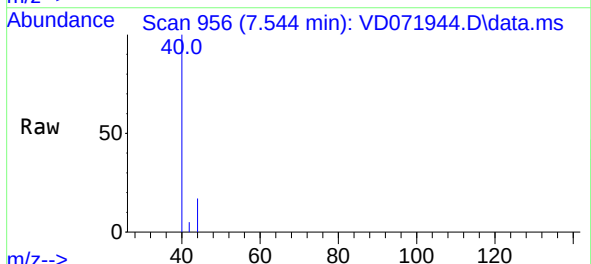
Instrument :  
MSVOA\_D  
ClientSampleId :

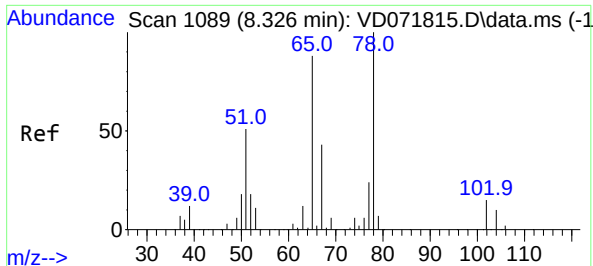
Tgt Ion: 43 Resp: 825  
Ion Ratio Lower Upper  
43 100  
58 51.2 22.1 33.1#



#29  
Tetrahydrofuran  
Concen: 1.542 ug/l  
RT: 7.544 min Scan# 956  
Delta R.T. -0.018 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion: 42 Resp: 65  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.7 46.1#  
71 0.0 28.6 43.0#





#33

1,2-Dichloroethane-d4

Concen: 95.471 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VD071944.D

Acq: 11 Feb 2022 18:44

Instrument :

MSVOA\_D

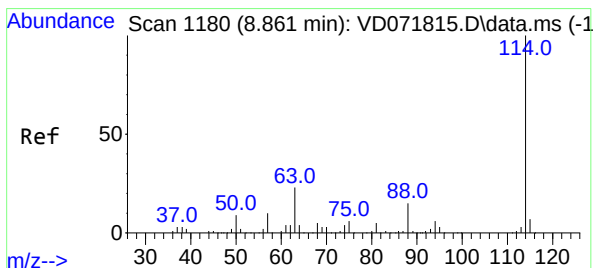
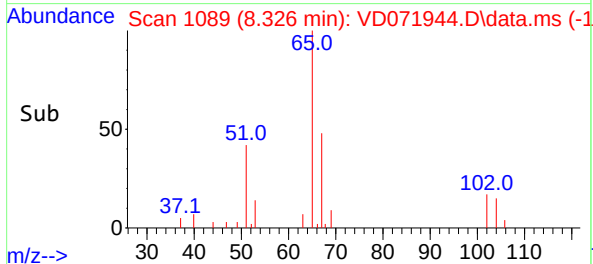
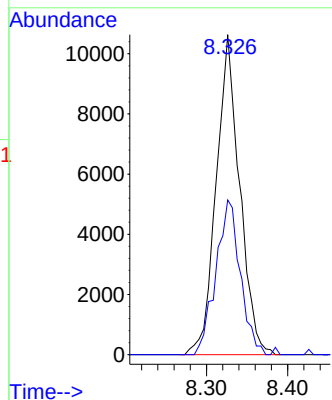
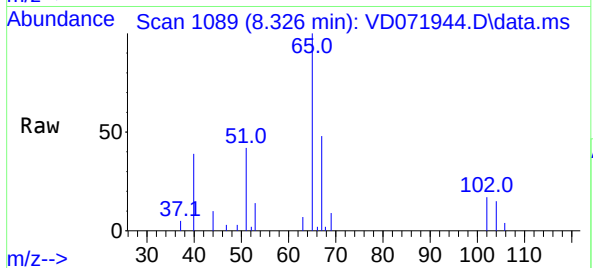
ClientSampleId :

Tgt Ion: 65 Resp: 21320

Ion Ratio Lower Upper

65 100

67 50.3 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD071944.D

Acq: 11 Feb 2022 18:44

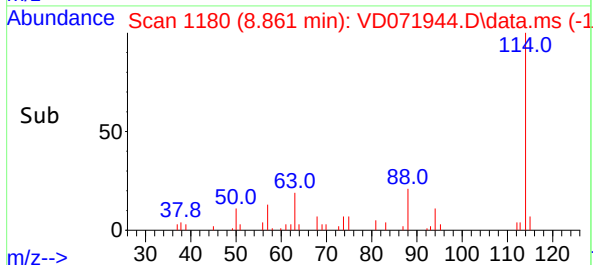
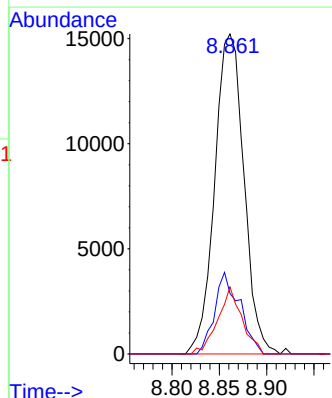
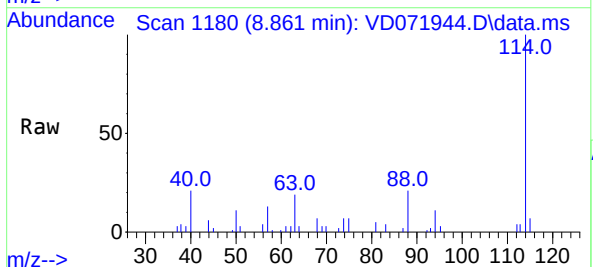
Tgt Ion: 114 Resp: 32625

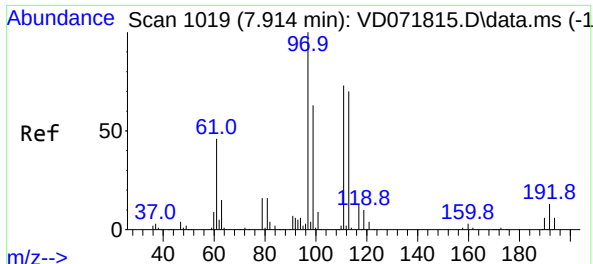
Ion Ratio Lower Upper

114 100

63 18.9 0.0 46.6

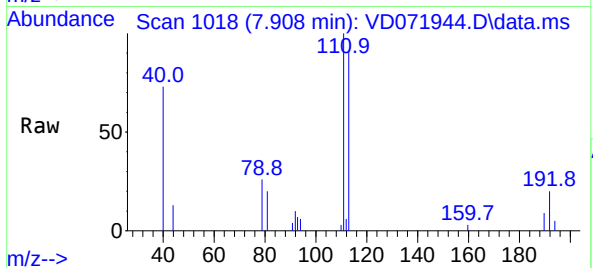
88 21.0 0.0 33.2



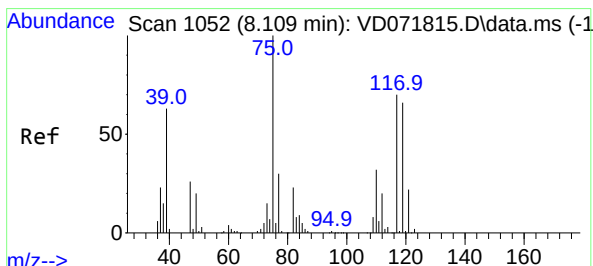
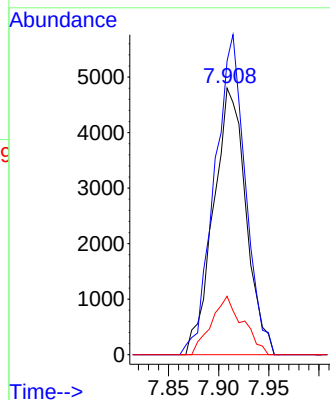
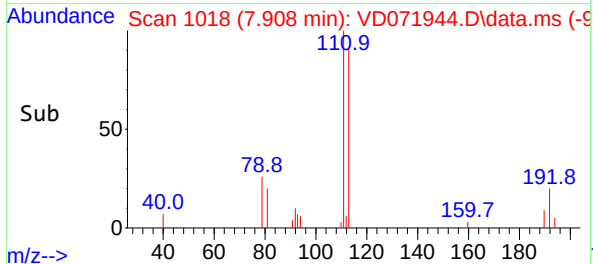


#35  
Dibromofluoromethane  
Concen: 50.412 ug/l  
RT: 7.908 min Scan# 10811  
Delta R.T. -0.006 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

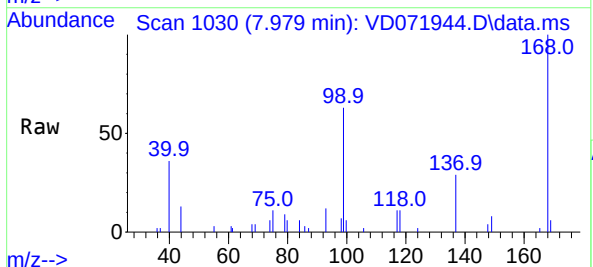
Instrument :  
MSVOA\_D  
ClientSampleId :



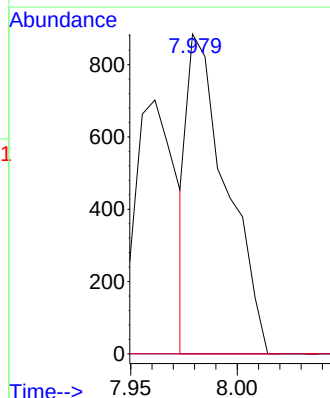
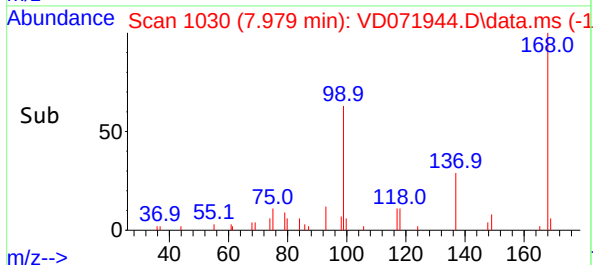
Tgt Ion:113 Resp: 10811  
Ion Ratio Lower Upper  
113 100  
111 114.0 83.8 125.6  
192 21.3 14.6 21.8



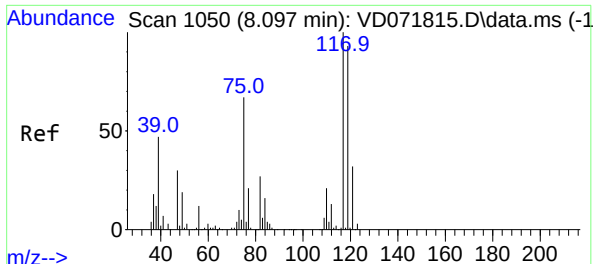
#36  
1,1-Dichloropropene  
Concen: 3.054 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.135 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44



Tgt Ion: 75 Resp: 1124  
Ion Ratio Lower Upper  
75 100  
110 0.0 16.4 49.1#  
77 0.0 24.2 36.2#

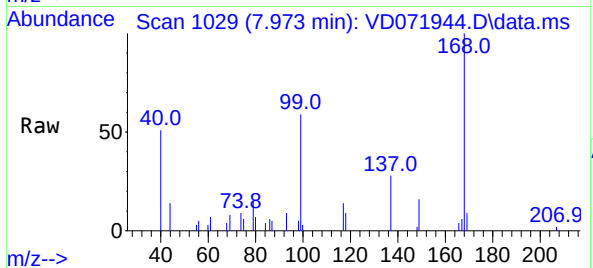




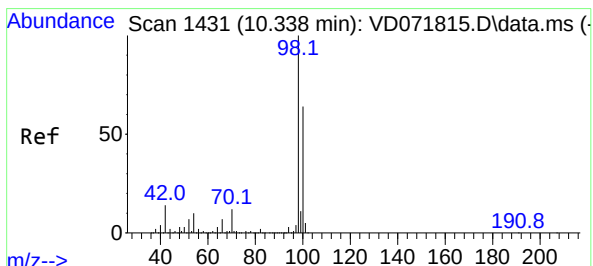
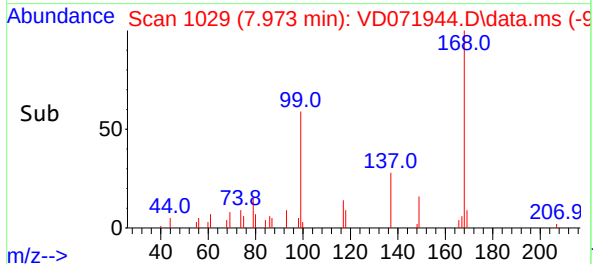
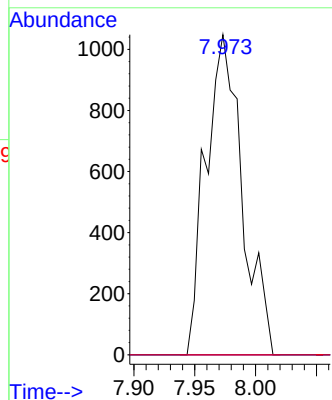


#38  
Carbon Tetrachloride  
Concen: 5.986 ug/l  
RT: 7.973 min Scan# 1050  
Delta R.T. -0.124 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Instrument :  
MSVOA\_D  
ClientSampleId :

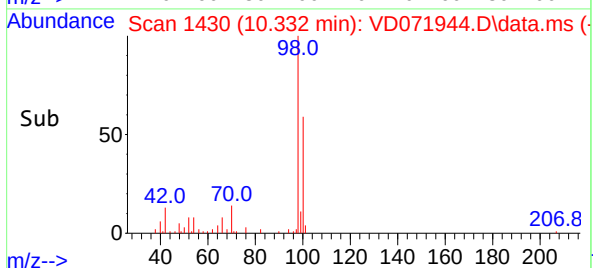
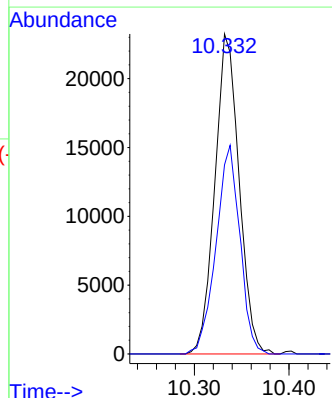
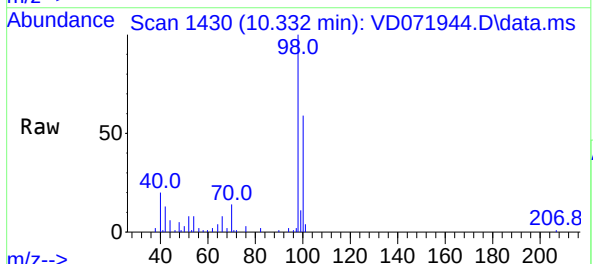


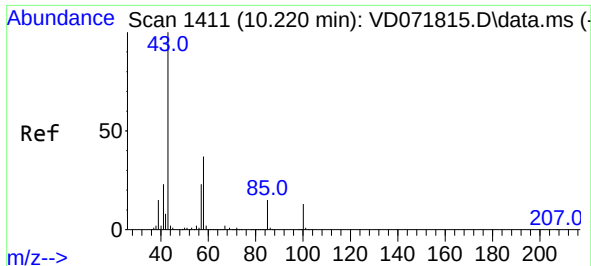
Tgt Ion:117 Resp: 2179  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 51.637 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.006 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion: 98 Resp: 41357  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.4 78.6

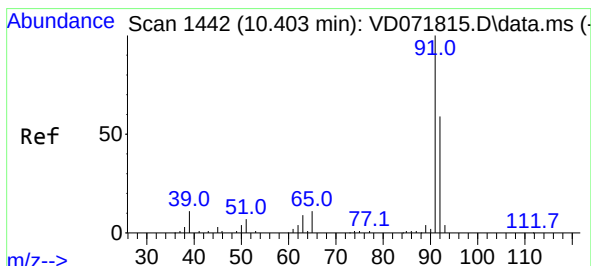
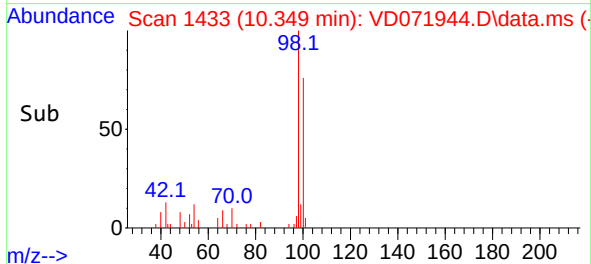
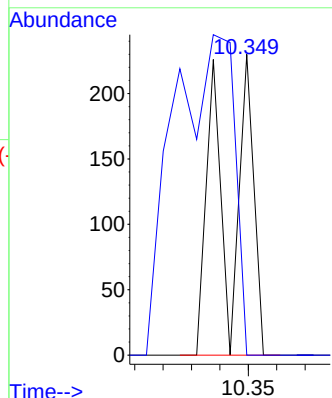
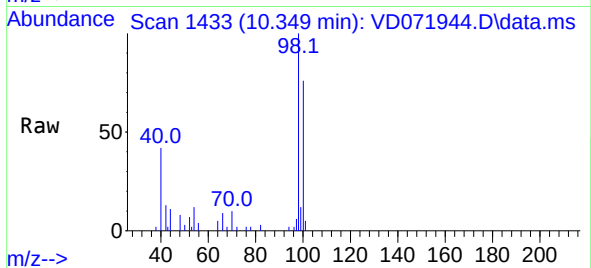




#51  
4-Methyl-2-Pentanone  
Concen: 1.000 ug/l  
RT: 10.349 min Scan# 1411  
Delta R.T. 0.123 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

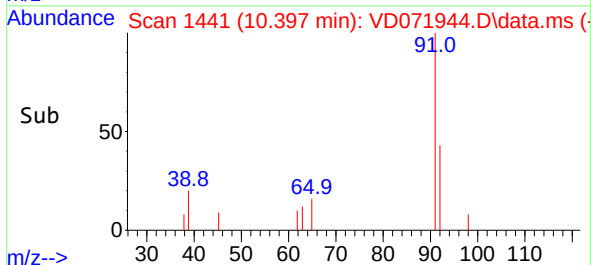
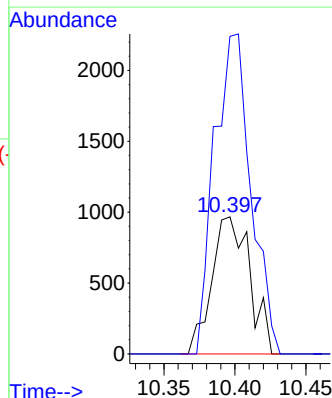
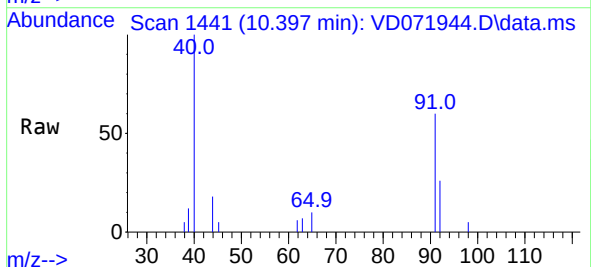
Instrument :  
MSVOA\_D  
ClientSampleId :

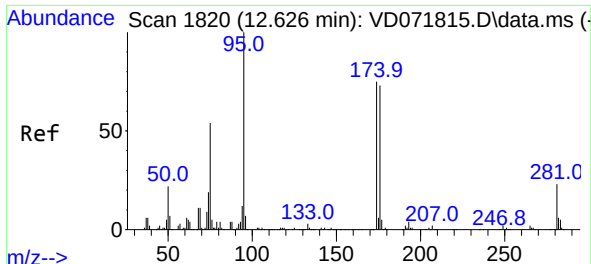
Tgt Ion: 43 Resp: 161  
Ion Ratio Lower Upper  
43 100  
58 224.2 28.6 43.0#



#52  
Toluene  
Concen: 2.918 ug/l  
RT: 10.397 min Scan# 1441  
Delta R.T. -0.006 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

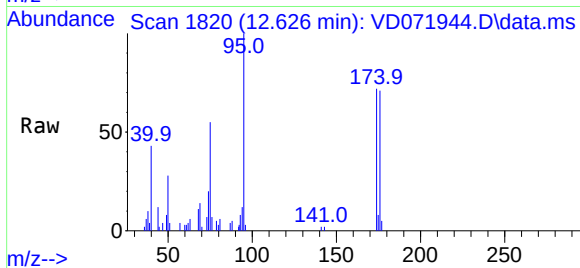
Tgt Ion: 92 Resp: 1803  
Ion Ratio Lower Upper  
92 100  
91 224.1 139.6 209.4#



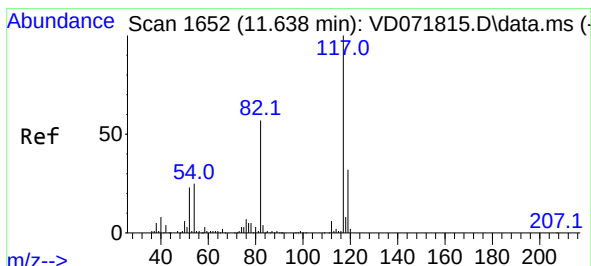
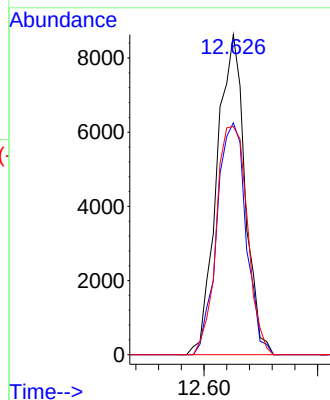
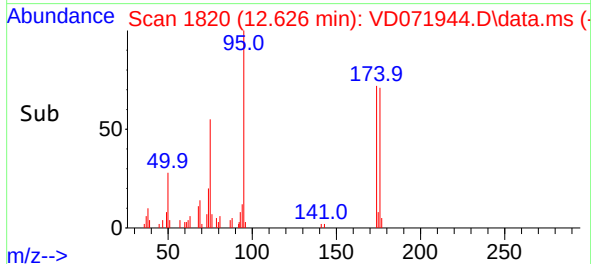


#62  
4-Bromofluorobenzene  
Concen: 53.055 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

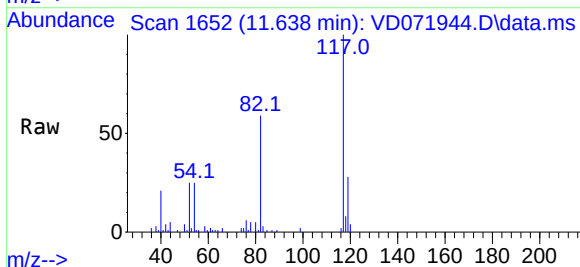
Instrument :  
MSVOA\_D  
ClientSampleId :



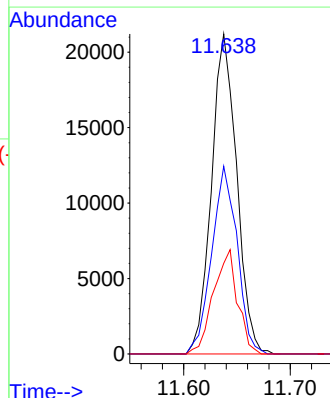
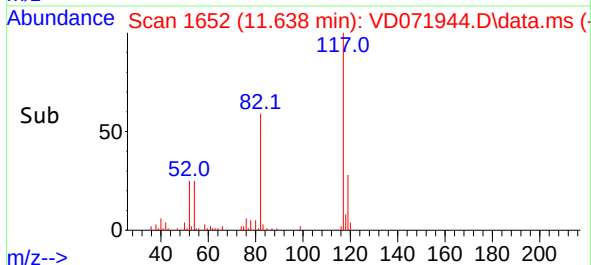
Tgt Ion: 95 Resp: 14839  
Ion Ratio Lower Upper  
95 100  
174 75.1 0.0 152.8  
176 78.1 0.0 145.4

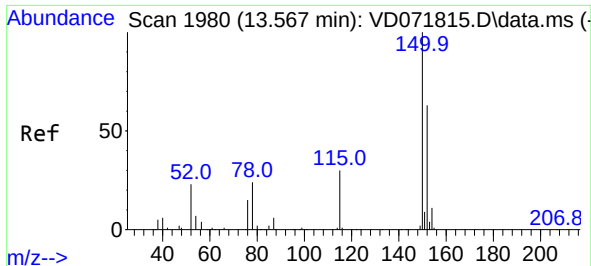


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44



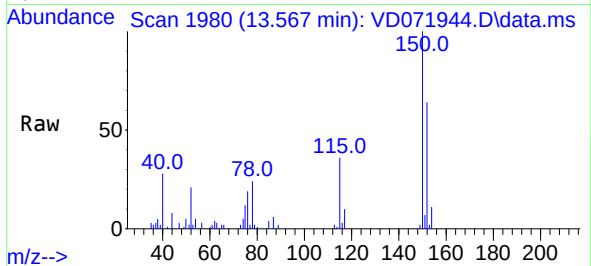
Tgt Ion: 117 Resp: 34892  
Ion Ratio Lower Upper  
117 100  
82 58.6 45.3 67.9  
119 28.3 26.6 40.0



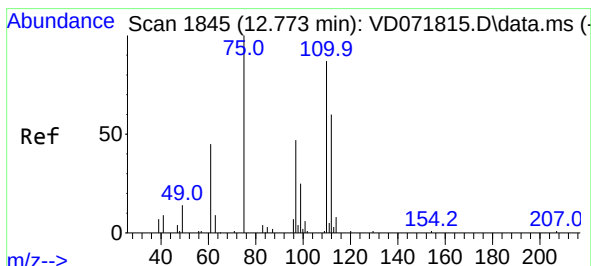
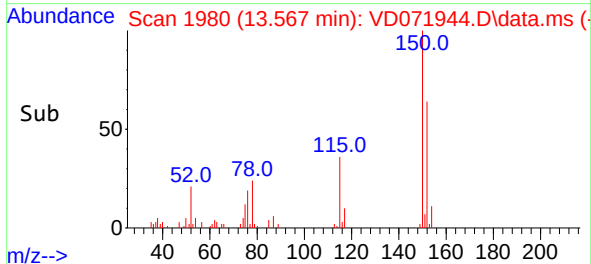
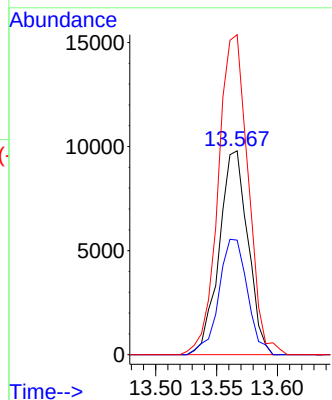


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Instrument :  
MSVOA\_D  
ClientSampleId :

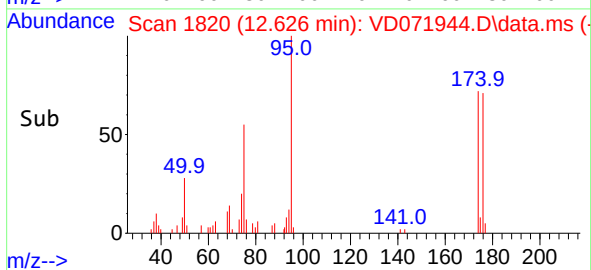
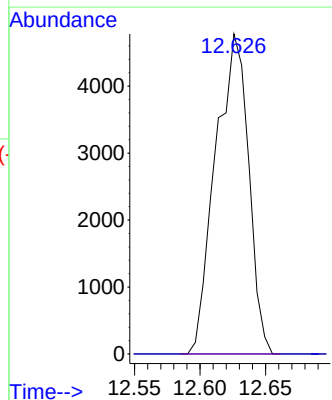
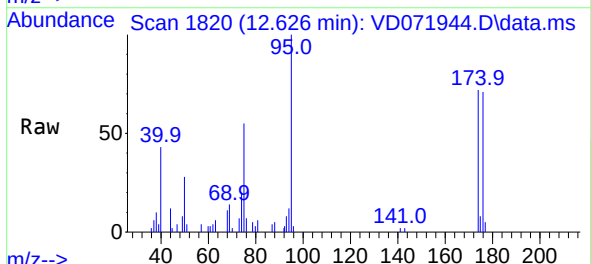


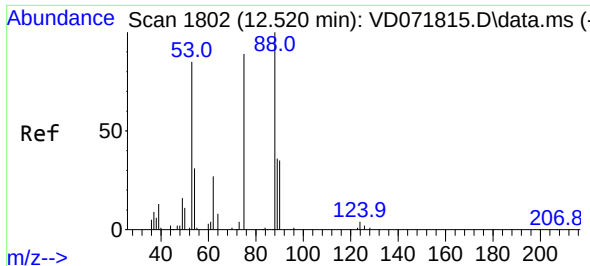
Tgt Ion:152 Resp: 16080  
Ion Ratio Lower Upper  
152 100  
115 56.6 31.3 93.8  
150 163.4 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 49.462 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion: 75 Resp: 8382  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0

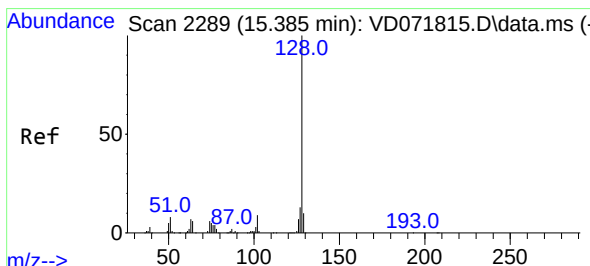
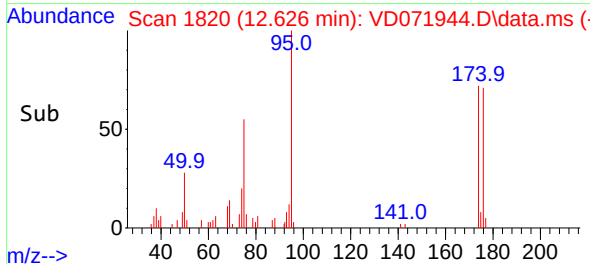
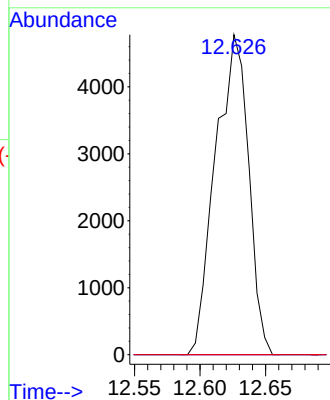
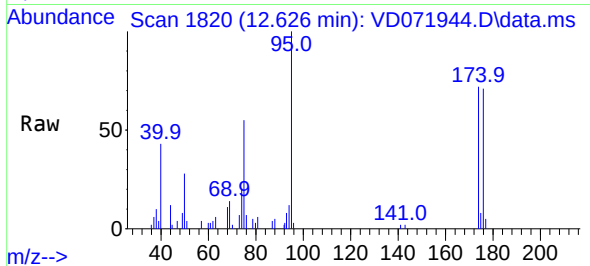




#81  
trans-1,4-Dichloro-2-butene  
Concen: 121.616 ug/l  
RT: 12.626 min Scan# 1802  
Delta R.T. 0.106 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 8382  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 33.9 50.9#



#95  
Naphthalene  
Concen: 3.922 ug/l  
RT: 15.384 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: VD071944.D  
Acq: 11 Feb 2022 18:44

Tgt Ion:128 Resp: 1420  
Ion Ratio Lower Upper  
128 100  
127 8.5 10.3 15.5#  
129 3.9 8.4 12.6#

