

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120721\  
 Data File : VD071192.D  
 Acq On : 07 Dec 2021 19:19  
 Operator : VA/SY  
 Sample : M4954-04RE  
 Misc : 6.41G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 08 02:52:56 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

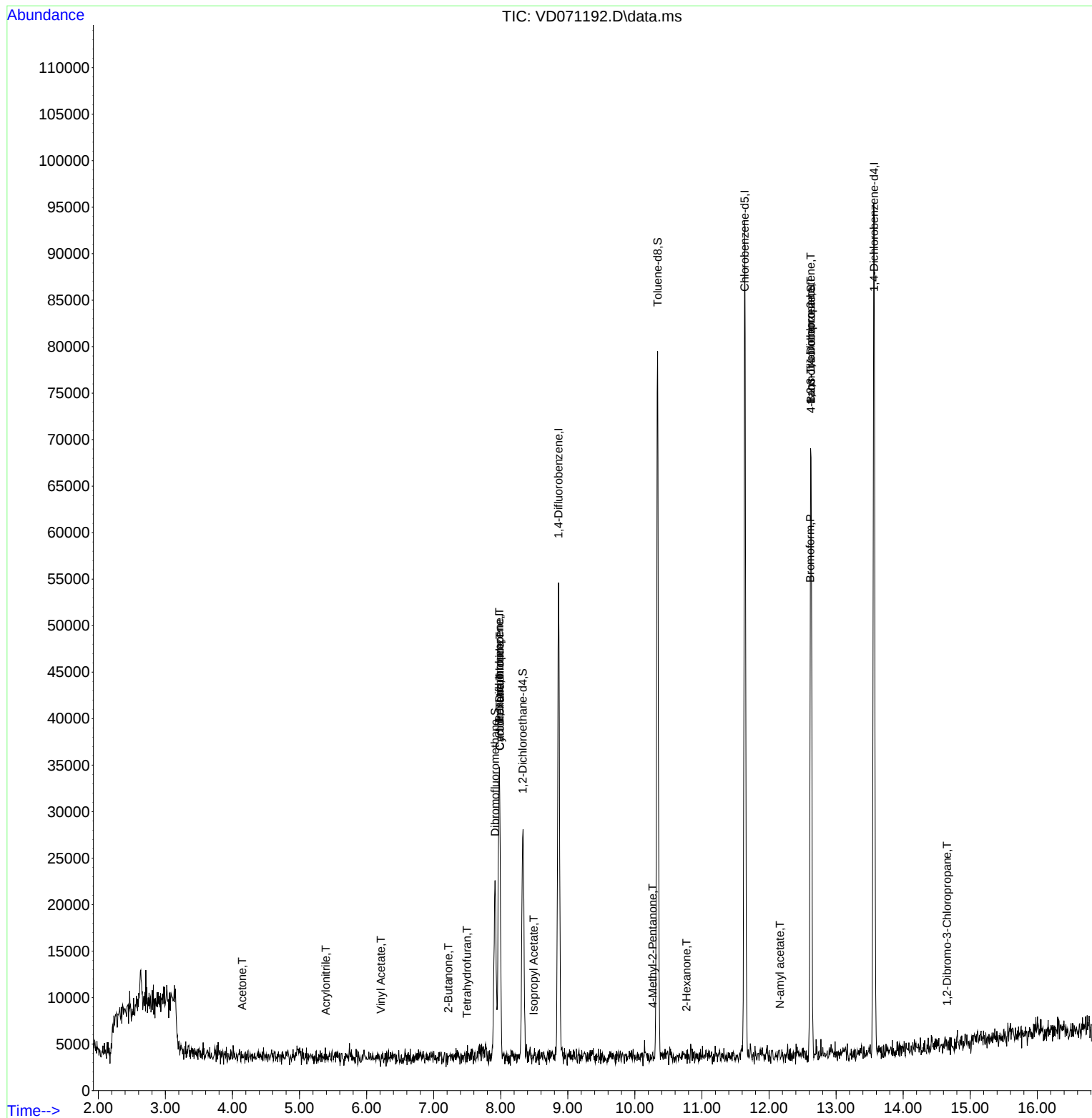
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 22832              | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 37564              | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 44863              | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 23488              | 50.00     | ug/l   | 0.00     |
|                               |                |      |                    |           |        |          |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 19320              | 72.11     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 144.22% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 13343              | 55.78     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 111.56% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 48079              | 52.82     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 105.64% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 21652              | 68.62     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 137.24% |           |        |          |
|                               |                |      |                    |           |        |          |
| Target Compounds              |                |      |                    |           | Qvalue |          |
| 15) Acrylonitrile             | 5.391          | 53   | 57                 | 1.11      | ug/l # | 19       |
| 16) Acetone                   | 4.144          | 43   | 61                 | 31.55     | ug/l # | 40       |
| 20) Methylene Chloride        | 4.950          | 84   | 375                | Below Cal | #      | 59       |
| 23) Vinyl Acetate             | 6.215          | 43   | 148                | 27.52     | ug/l # | 72       |
| 25) 2-Butanone                | 7.220          | 43   | 74                 | 29.16     | ug/l # | 45       |
| 29) Tetrahydrofuran           | 7.497          | 42   | 64                 | 1.50      | ug/l # | 34       |
| 31) Cyclohexane               | 7.985          | 56   | 810                | 1.78      | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 2074               | 5.91      | ug/l # | 41       |
| 38) Carbon Tetrachloride      | 7.985          | 117  | 1393               | 4.03      | ug/l # | 12       |
| 41) Methacrylonitrile         | 7.538          | 41   | 135                | Below Cal | #      | 34       |
| 43) Isopropyl Acetate         | 8.491          | 43   | 56                 | 5.37      | ug/l # | 47       |
| 51) 4-Methyl-2-Pentanone      | 10.267         | 43   | 56                 | 30.94     | ug/l # | 34       |
| 59) 2-Hexanone                | 10.767         | 43   | 60                 | 34.98     | ug/l # | 22       |
| 71) Bromoform                 | 12.614         | 173  | 423                | 2.69      | ug/l # | 1        |
| 74) N-amyl acetate            | 12.161         | 43   | 116                | 5.92      | ug/l # | 40       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 12192              | 54.48     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 12192              | 118.49    | ug/l # | 18       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.655         | 75   | 62                 | 1.36      | ug/l # | 4        |
| -----                         |                |      |                    |           |        |          |

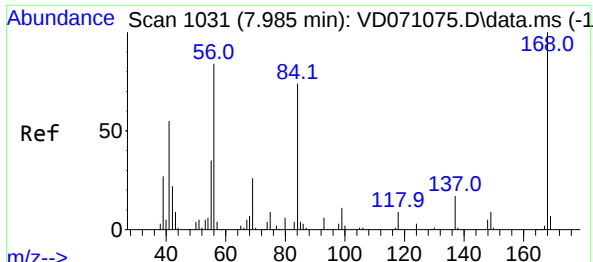
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120721\  
Data File : VD071192.D  
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Operator : VA/SY  
Sample : M4954-04RE  
Misc : 6.41G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

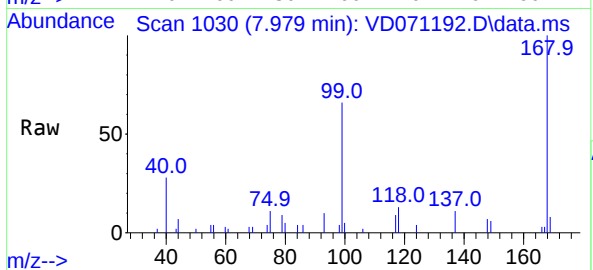
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration



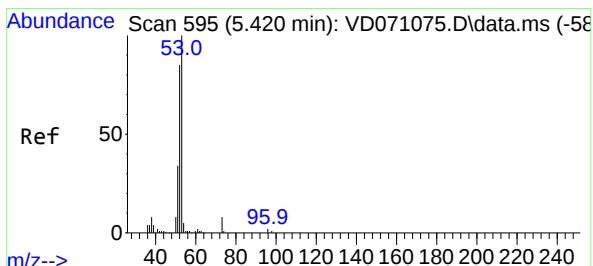
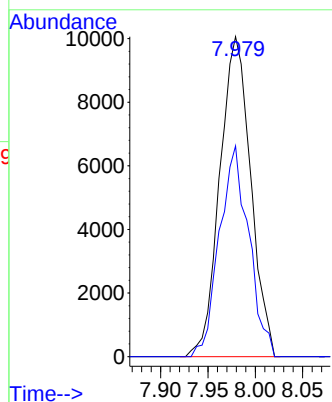
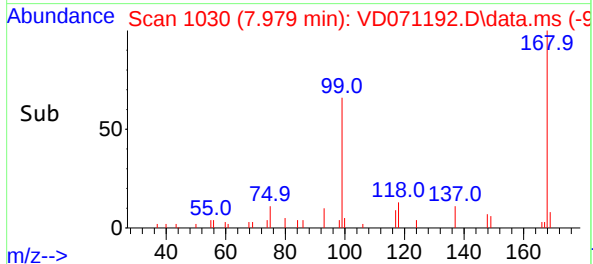


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Instrument :  
MSVOA\_D  
ClientSampleId :

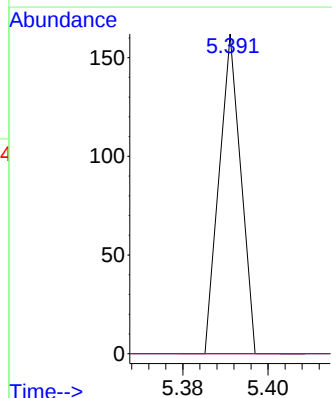
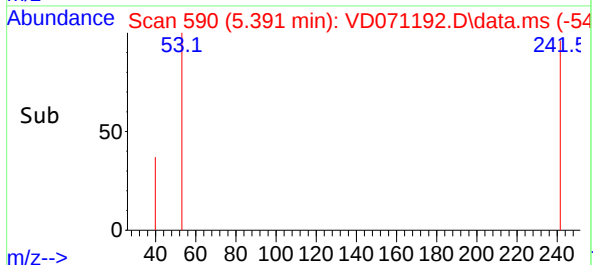
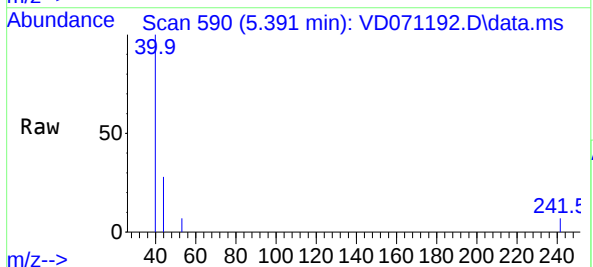


Tgt Ion:168 Resp: 22832  
Ion Ratio Lower Upper  
168 100  
99 65.9 46.6 69.8



#15  
Acrylonitrile  
Concen: 1.11 ug/l  
RT: 5.391 min Scan# 590  
Delta R.T. -0.029 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Tgt Ion: 53 Resp: 57  
Ion Ratio Lower Upper  
53 100  
52 0.0 63.8 95.8#  
51 0.0 28.5 42.7#

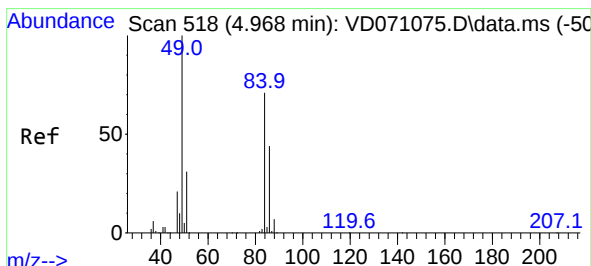
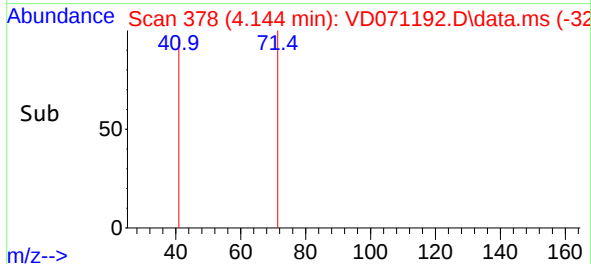
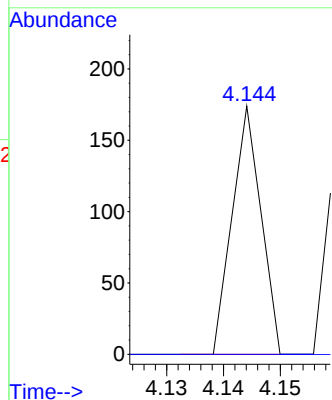
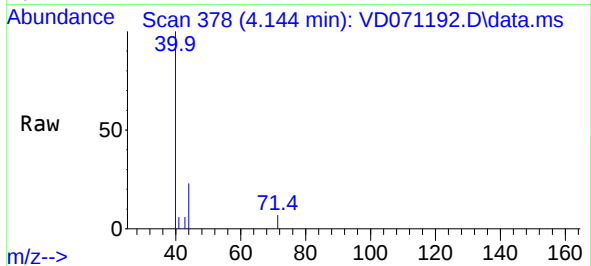




#16  
Acetone  
Concen: 31.55 ug/l  
RT: 4.144 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

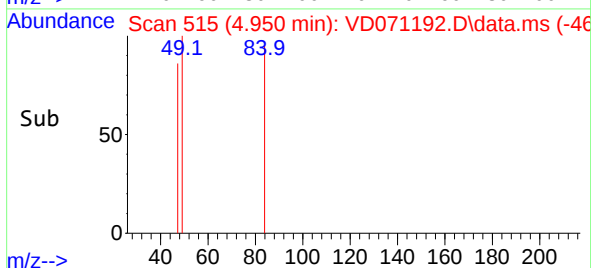
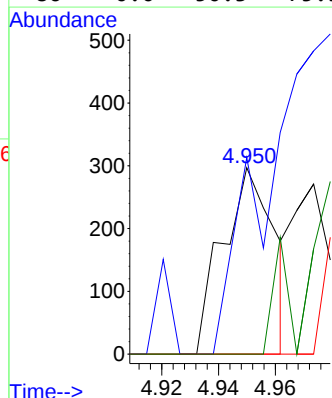
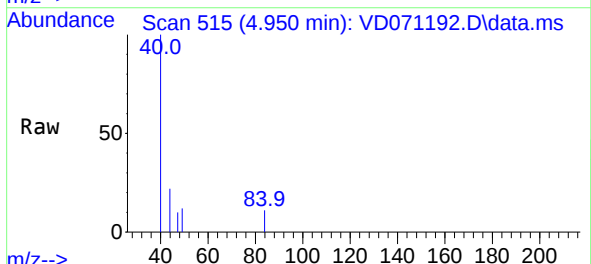
Instrument :  
MSVOA\_D  
ClientSampleId :

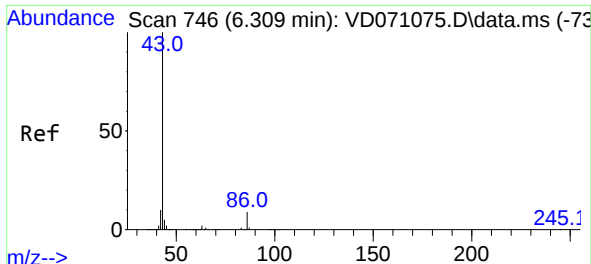
Tgt Ion: 43 Resp: 61  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.950 min Scan# 515  
Delta R.T. -0.018 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Tgt Ion: 84 Resp: 375  
Ion Ratio Lower Upper  
84 100  
49 105.4 95.8 143.6  
51 0.0 30.9 46.3#  
86 0.0 50.3 75.5#





#23

Vinyl Acetate

Concen: 27.52 ug/l

RT: 6.215 min Scan# 71

Delta R.T. -0.094 min

Lab File: VD071192.D

Acq: 07 Dec 2021 19:19

Instrument :

MSVOA\_D

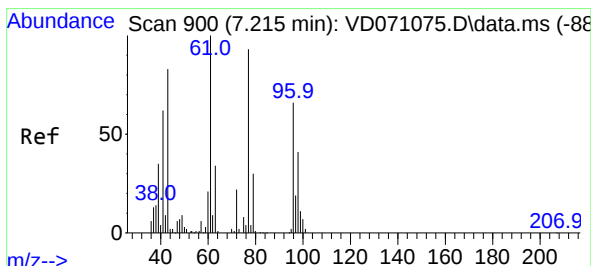
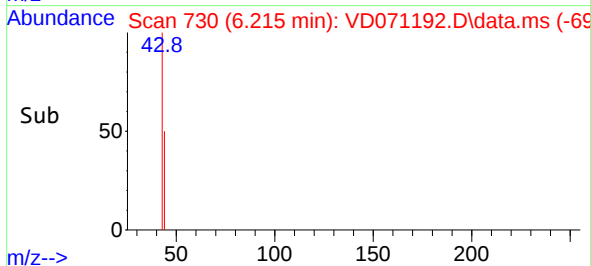
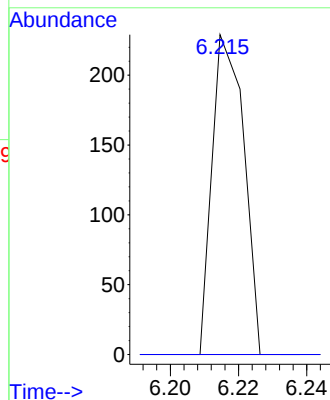
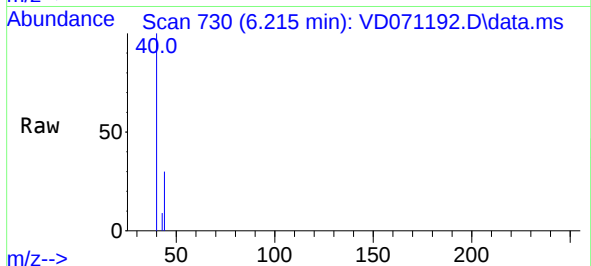
ClientSampleId :

Tgt Ion: 43 Resp: 148

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#25

2-Butanone

Concen: 29.16 ug/l

RT: 7.220 min Scan# 901

Delta R.T. 0.005 min

Lab File: VD071192.D

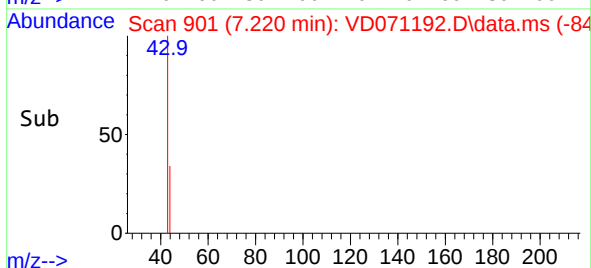
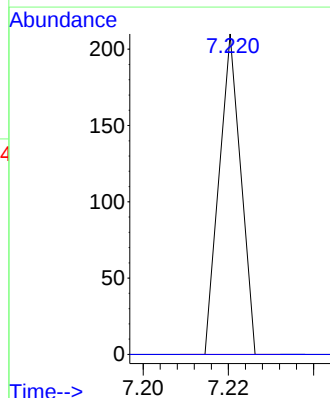
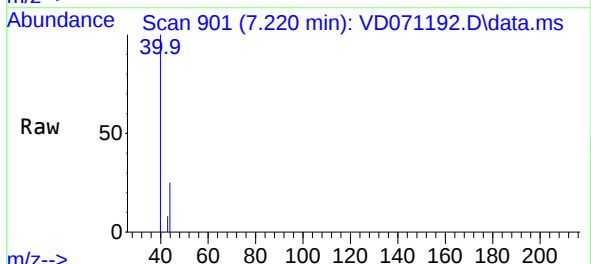
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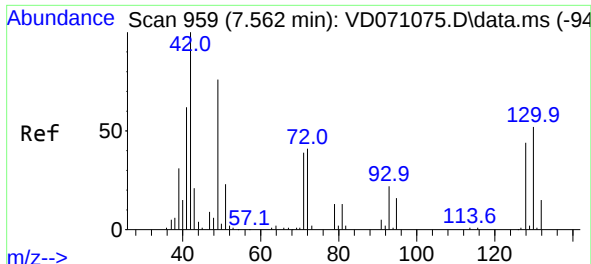
Tgt Ion: 43 Resp: 74

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#

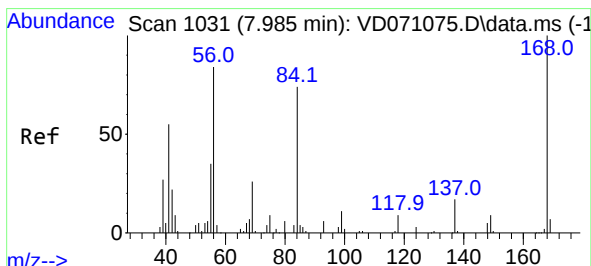
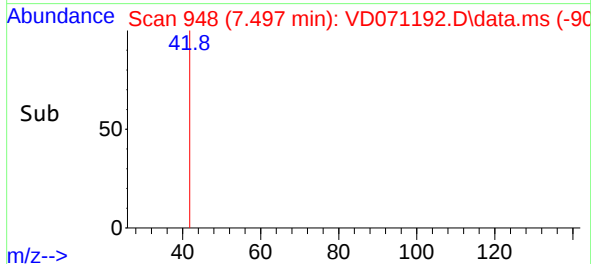
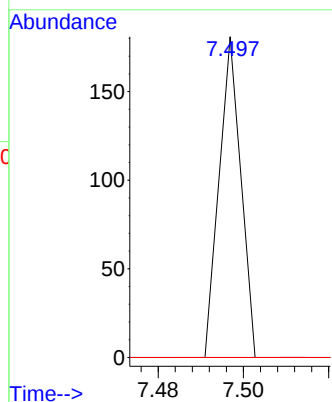
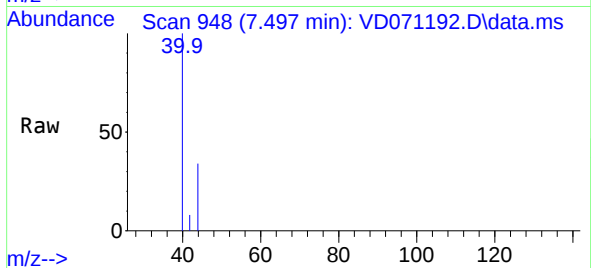




#29  
Tetrahydrofuran  
Concen: 1.50 ug/l  
RT: 7.497 min Scan# 94  
Delta R.T. -0.065 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

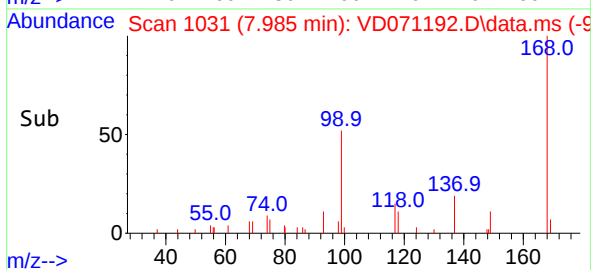
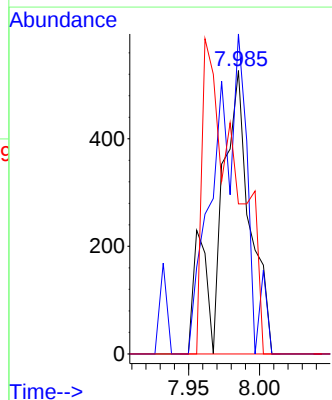
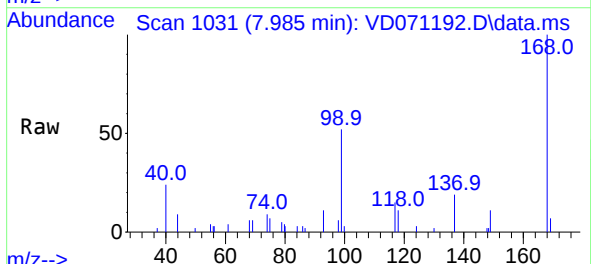
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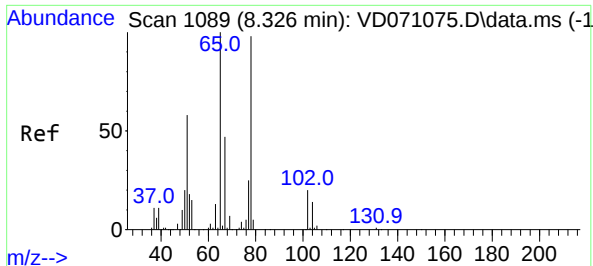
Tgt Ion: 42 Resp: 64  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.7 50.5#  
71 0.0 32.7 49.1#



#31  
Cyclohexane  
Concen: 1.78 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Tgt Ion: 56 Resp: 810  
Ion Ratio Lower Upper  
56 100  
69 112.9 25.9 38.9#  
84 52.9 64.3 96.5#

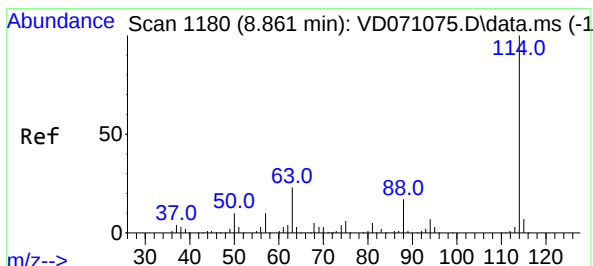
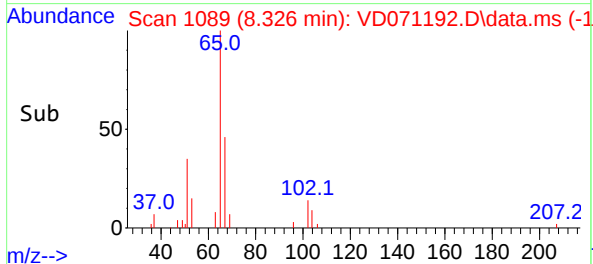
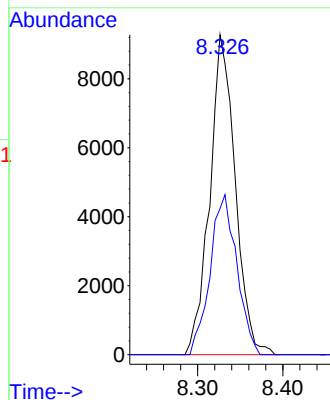
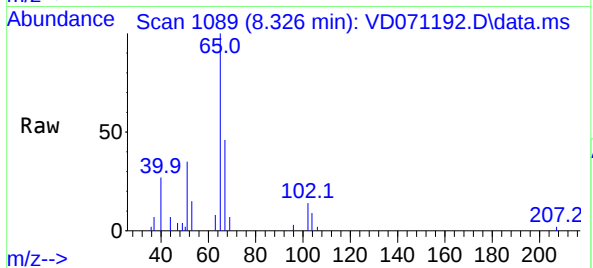




#33  
1,2-Dichloroethane-d4  
Concen: 72.11 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

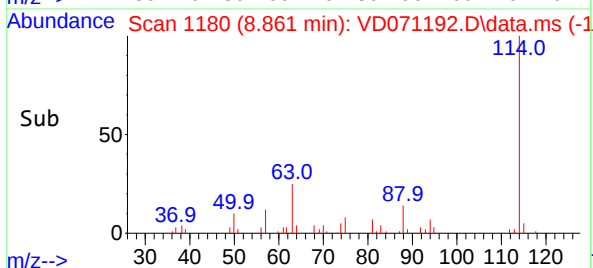
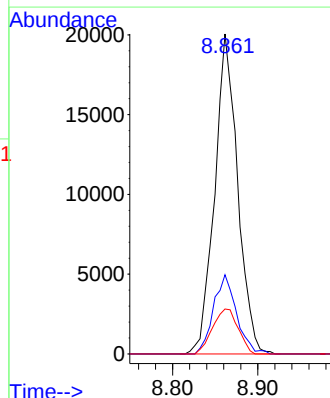
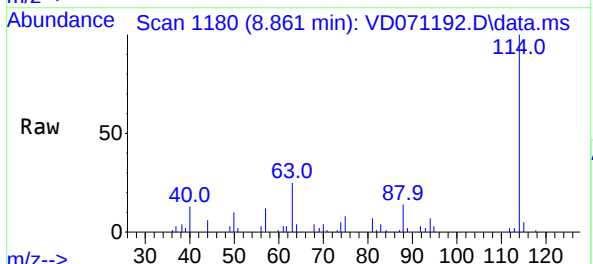
Instrument :  
MSVOA\_D  
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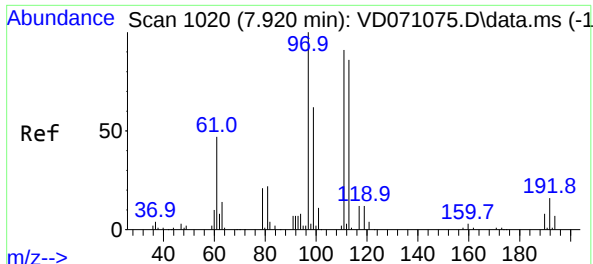
Tgt Ion: 65 Resp: 19320  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 112.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

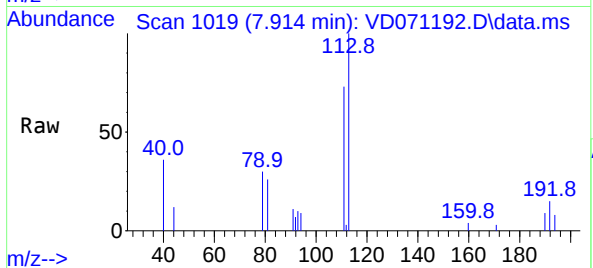
Tgt Ion: 114 Resp: 37564  
Ion Ratio Lower Upper  
114 100  
63 24.7 0.0 41.8  
88 14.1 0.0 32.8



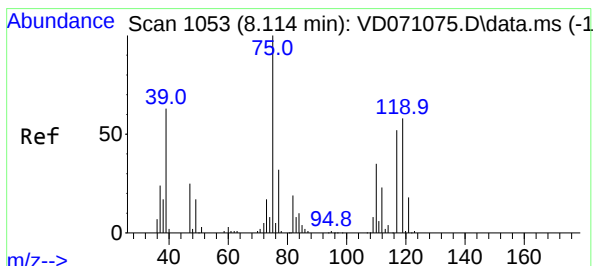
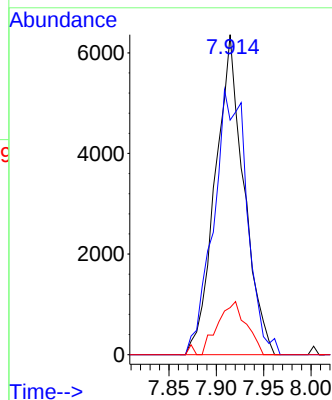
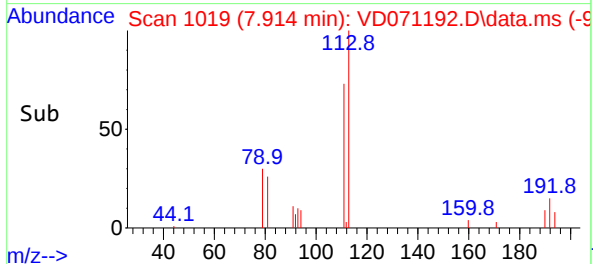


#35  
Dibromofluoromethane  
Concen: 55.78 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Instrument :  
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ClientSampleId :

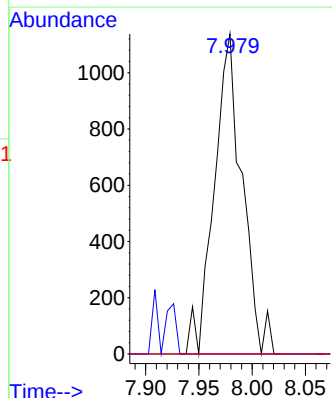
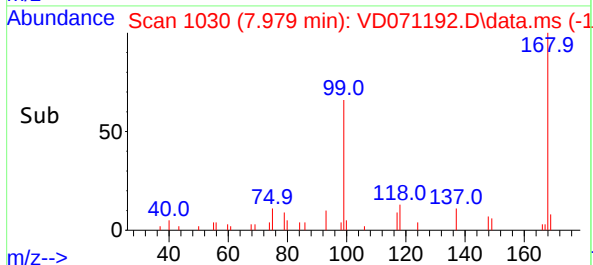
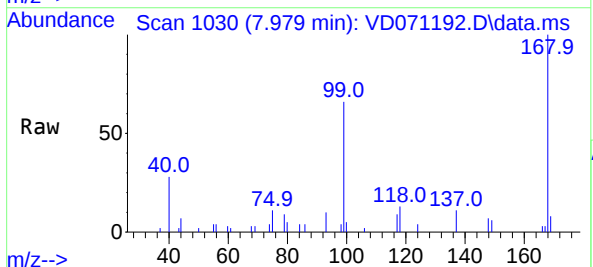


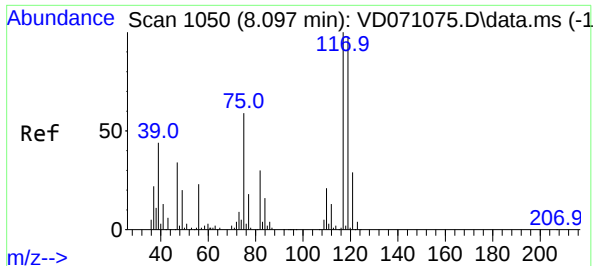
Tgt Ion:113 Resp: 13343  
Ion Ratio Lower Upper  
113 100  
111 96.9 82.0 123.0  
192 16.6 15.2 22.8



#36  
1,1-Dichloropropene  
Concen: 5.91 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.135 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

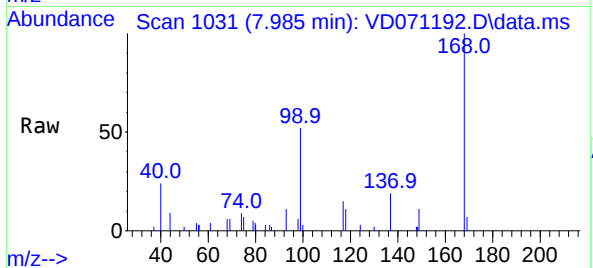
Tgt Ion: 75 Resp: 2074  
Ion Ratio Lower Upper  
75 100  
110 0.0 17.8 53.4#  
77 0.0 24.8 37.2#



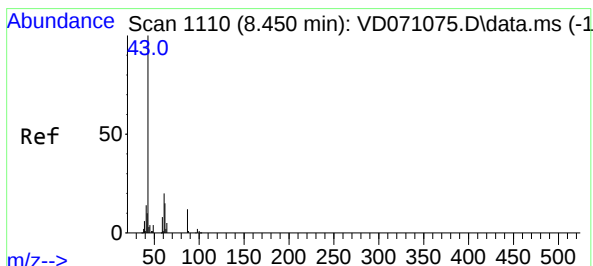
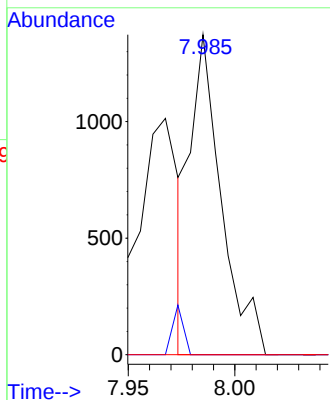
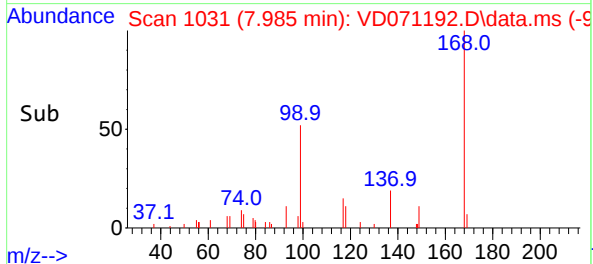


#38  
Carbon Tetrachloride  
Concen: 4.03 ug/l  
RT: 7.985 min Scan# 1109  
Delta R.T. -0.112 min  
Lab File: VD071192.D  
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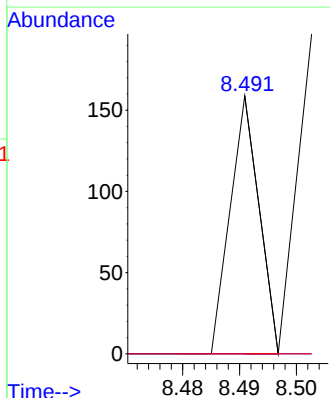
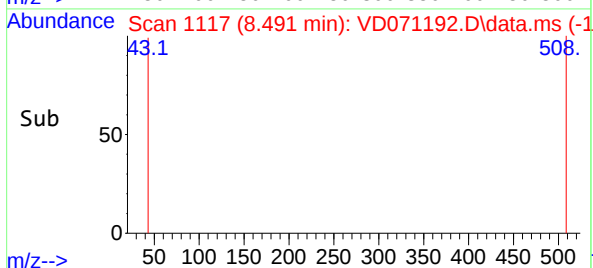
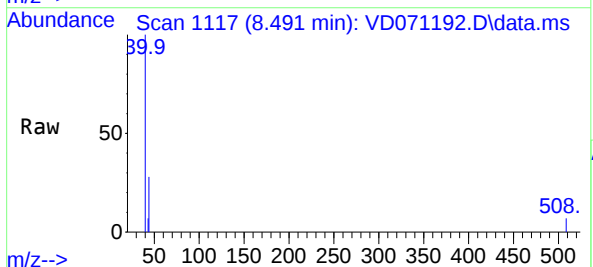


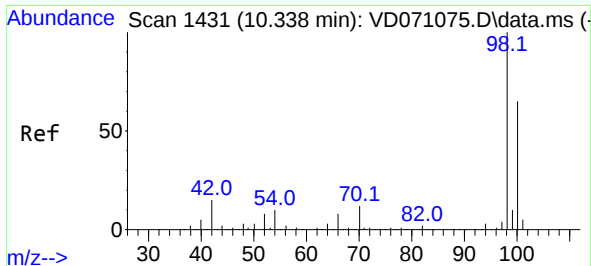
Tgt Ion:117 Resp: 1393  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 23.6 35.4#



#43  
Isopropyl Acetate  
Concen: 5.37 ug/l  
RT: 8.491 min Scan# 1117  
Delta R.T. 0.041 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Tgt Ion: 43 Resp: 56  
Ion Ratio Lower Upper  
43 100  
61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#

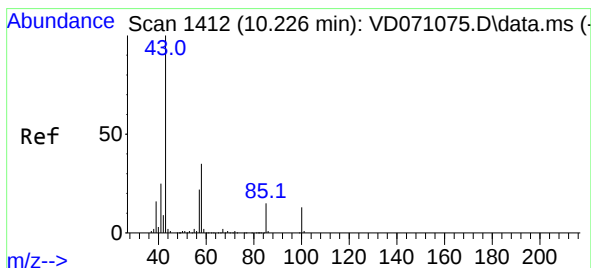
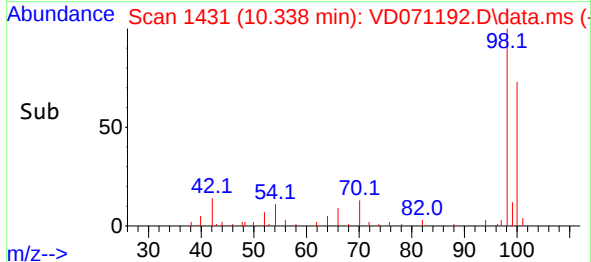
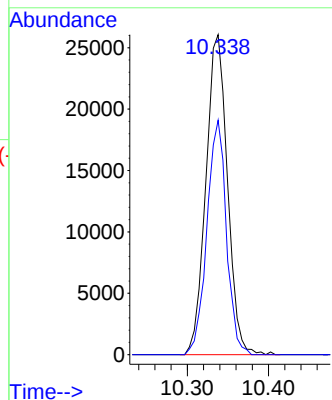
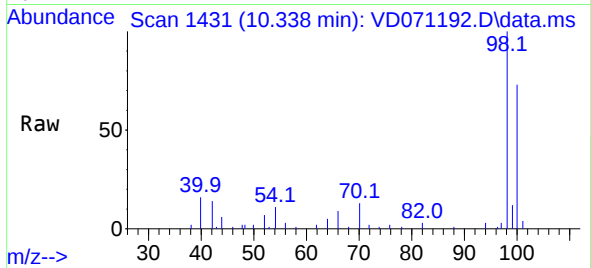




#50  
Toluene-d8  
Concen: 52.82 ug/l  
RT: 10.338 min Scan# 1419  
Delta R.T. -0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

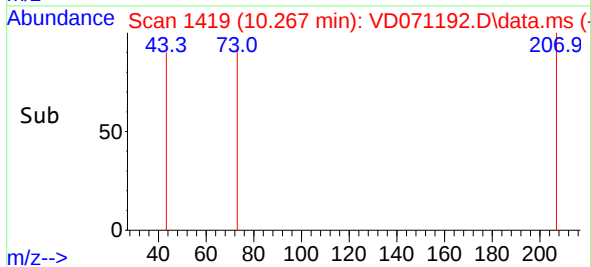
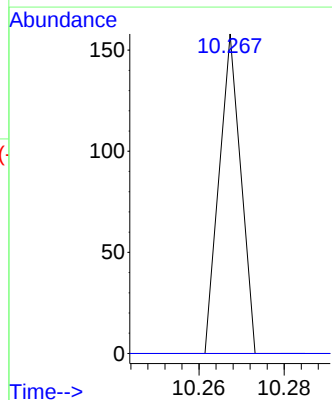
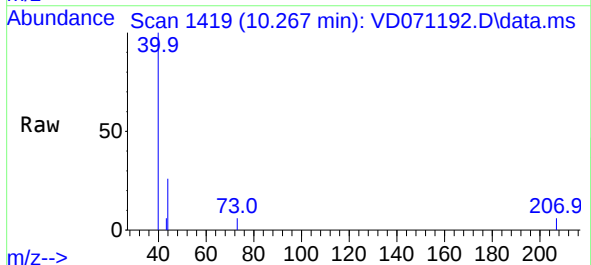
Instrument :  
MSVOA\_D  
ClientSampleId :

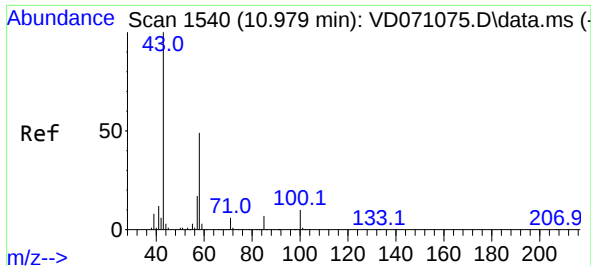
Tgt Ion: 98 Resp: 48079  
Ion Ratio Lower Upper  
98 100  
100 66.2 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 30.94 ug/l  
RT: 10.267 min Scan# 1419  
Delta R.T. 0.041 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Tgt Ion: 43 Resp: 56  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#

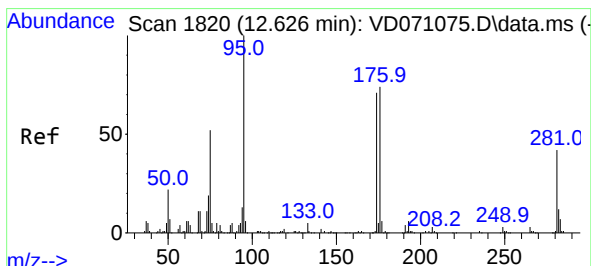
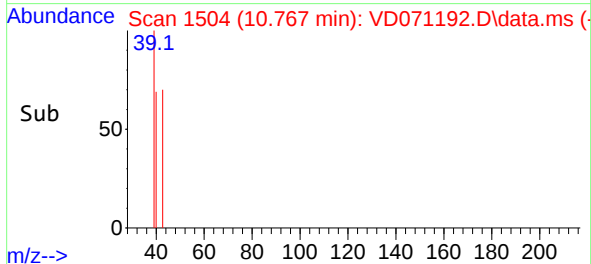
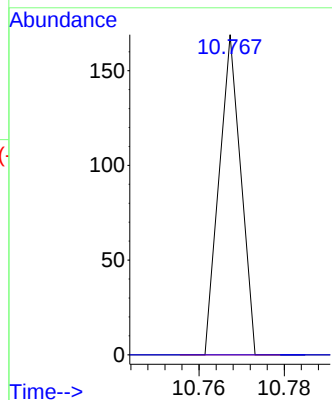
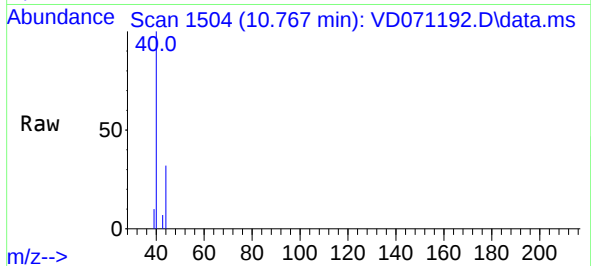




#59  
2-Hexanone  
Concen: 34.98 ug/l  
RT: 10.767 min Scan# 11  
Delta R.T. -0.212 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

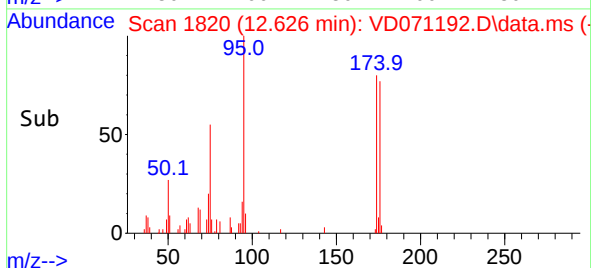
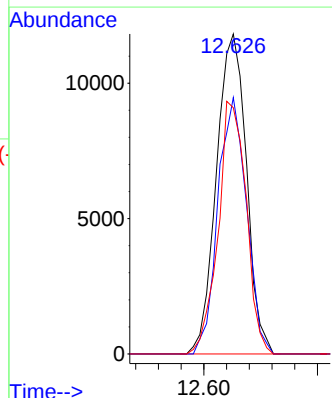
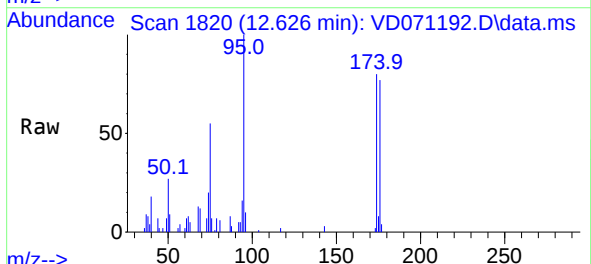
Instrument :  
MSVOA\_D  
ClientSampleId :

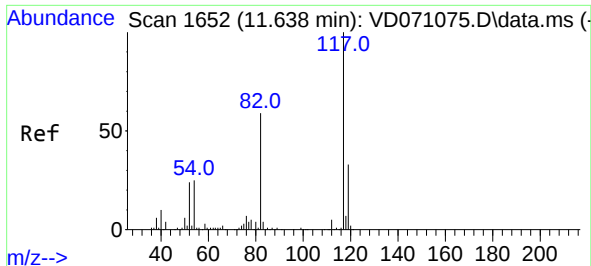
Tgt Ion: 43 Resp: 60  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#



#62  
4-Bromofluorobenzene  
Concen: 68.62 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

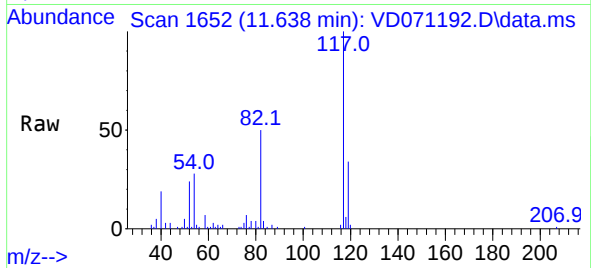
Tgt Ion: 95 Resp: 21652  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 159.4  
176 73.7 0.0 154.0



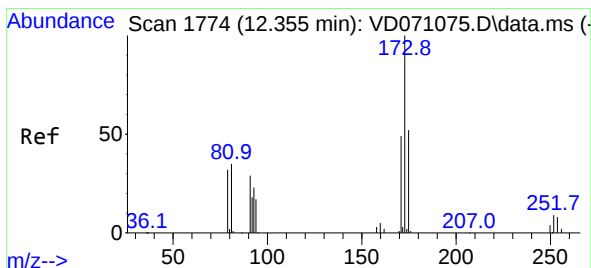
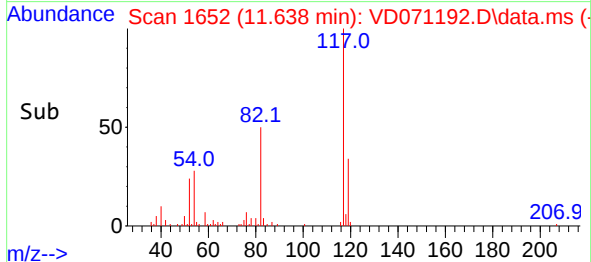
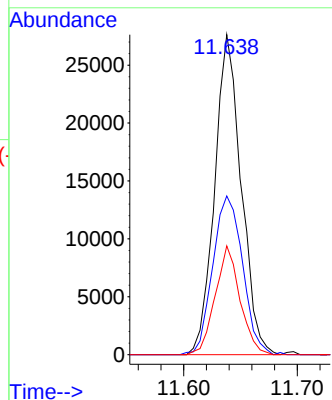


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

Instrument :  
MSVOA\_D  
ClientSampleId :

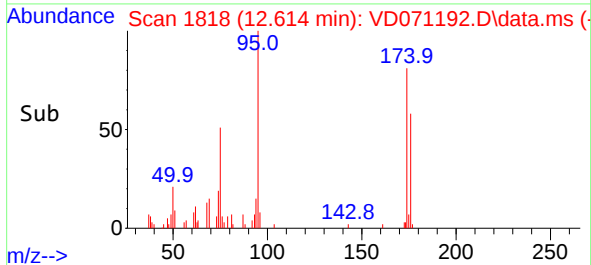
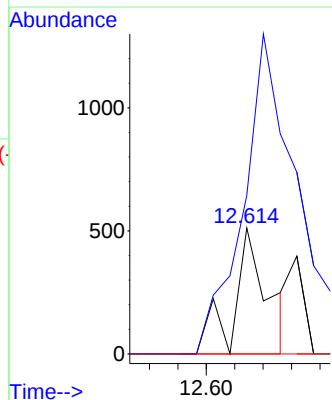
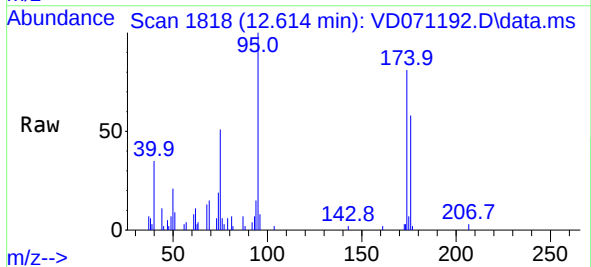


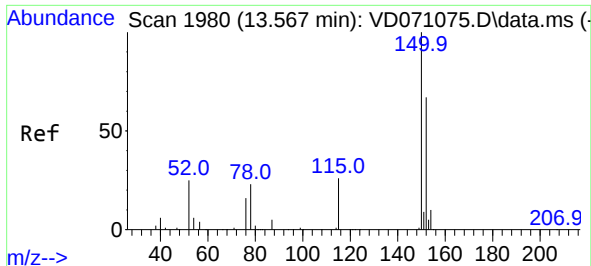
Tgt Ion:117 Resp: 44863  
Ion Ratio Lower Upper  
117 100  
82 49.6 44.7 67.1  
119 34.0 26.2 39.4



#71  
Bromoform  
Concen: 2.69 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. 0.259 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

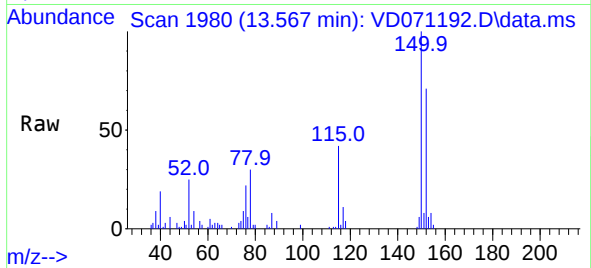
Tgt Ion:173 Resp: 423  
Ion Ratio Lower Upper  
173 100  
175 344.7 24.1 72.2#  
254 0.0 0.1 0.1#



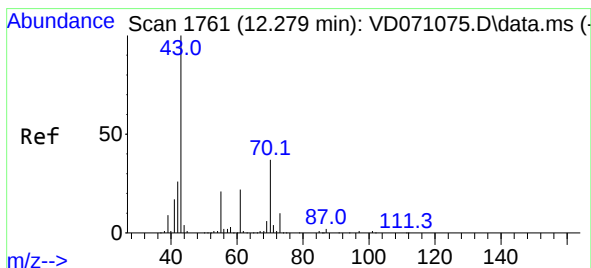
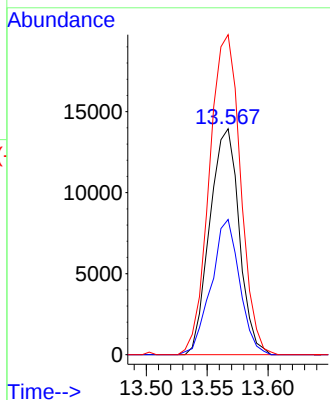
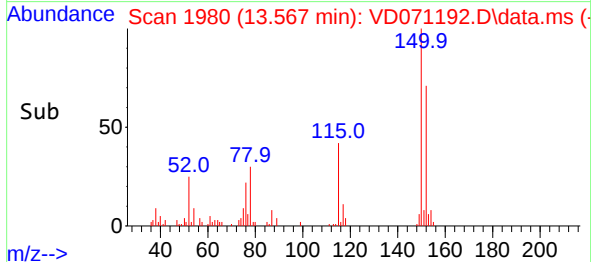


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

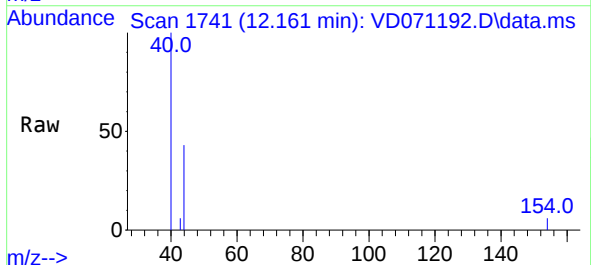
Instrument :  
MSVOA\_D  
ClientSampleId :



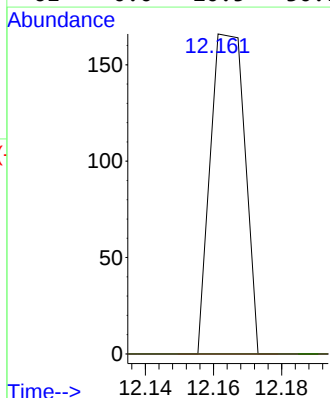
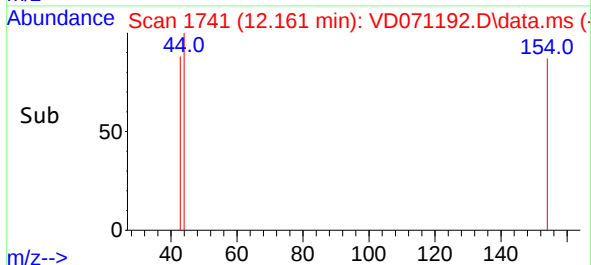
Tgt Ion:152 Resp: 23488  
Ion Ratio Lower Upper  
152 100  
115 57.7 29.8 89.3  
150 149.5 0.0 349.2

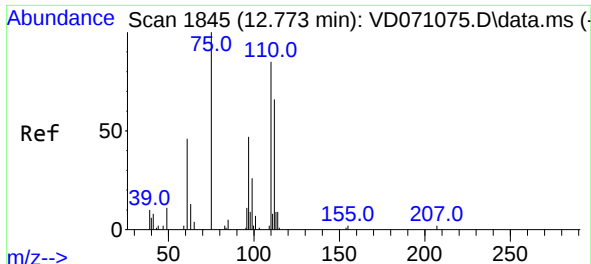


#74  
N-ethyl acetate  
Concen: 5.92 ug/l  
RT: 12.161 min Scan# 1741  
Delta R.T. -0.118 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19



Tgt Ion: 43 Resp: 116  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.6 55.0#  
55 0.0 22.5 33.7#  
61 0.0 20.5 30.7#

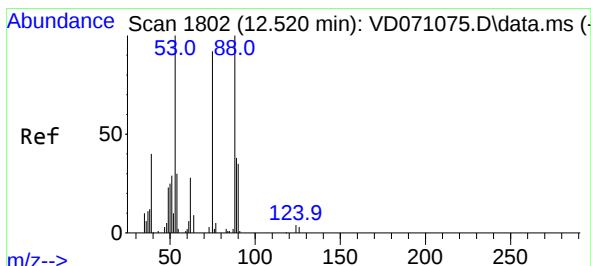
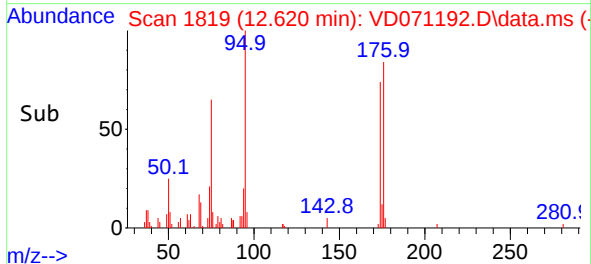
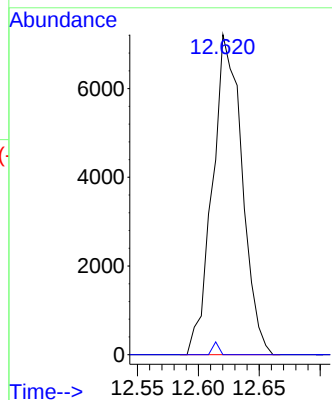
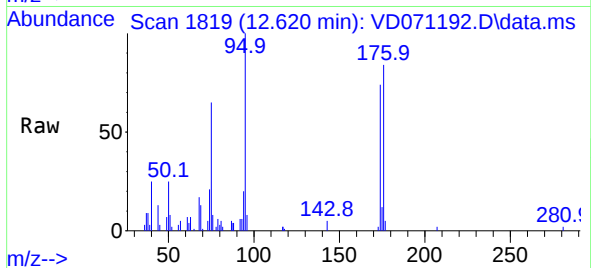




#76  
1,2,3-Trichloropropane  
Concen: 54.48 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

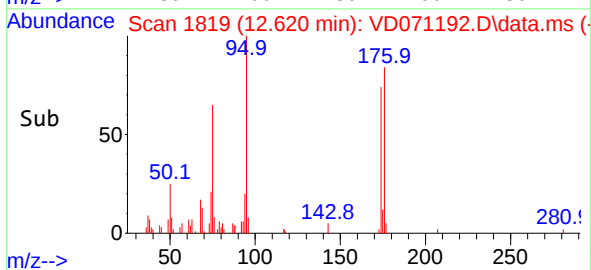
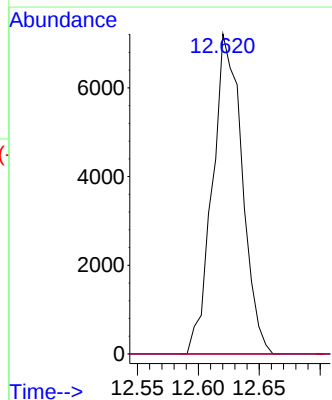
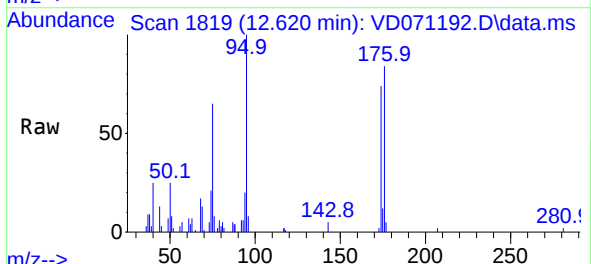
Instrument :  
MSVOA\_D  
ClientSampleId :

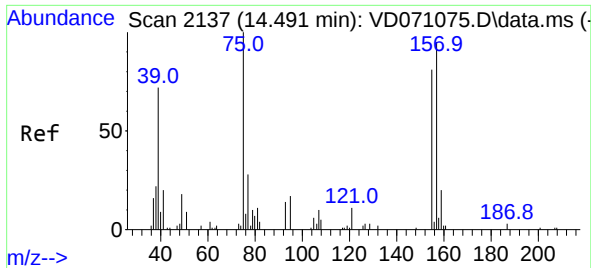
Tgt Ion: 75 Resp: 12192  
Ion Ratio Lower Upper  
75 100  
77 0.8 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 118.49 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD071192.D  
Acq: 07 Dec 2021 19:19

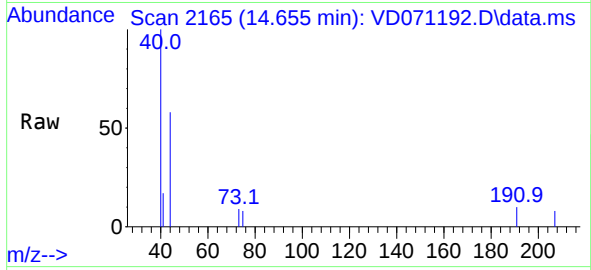
Tgt Ion: 75 Resp: 12192  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.0 34.5 51.7#





#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.36 ug/l  
 RT: 14.655 min Scan# 21  
 Delta R.T. 0.164 min  
 Lab File: VD071192.D  
 Acq: 07 Dec 2021 19:19

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 62

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 155 | 0.0   | 40.0  | 120.0# |
| 157 | 0.0   | 49.8  | 149.3# |

