

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111521\  
 Data File : VD071033.D  
 Acq On : 15 Nov 2021 17:36  
 Operator : VA/SY  
 Sample : M4602-03RE  
 Misc : 5.07G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 16 03:22:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 10 03:55:51 2021  
 Response via : Initial Calibration

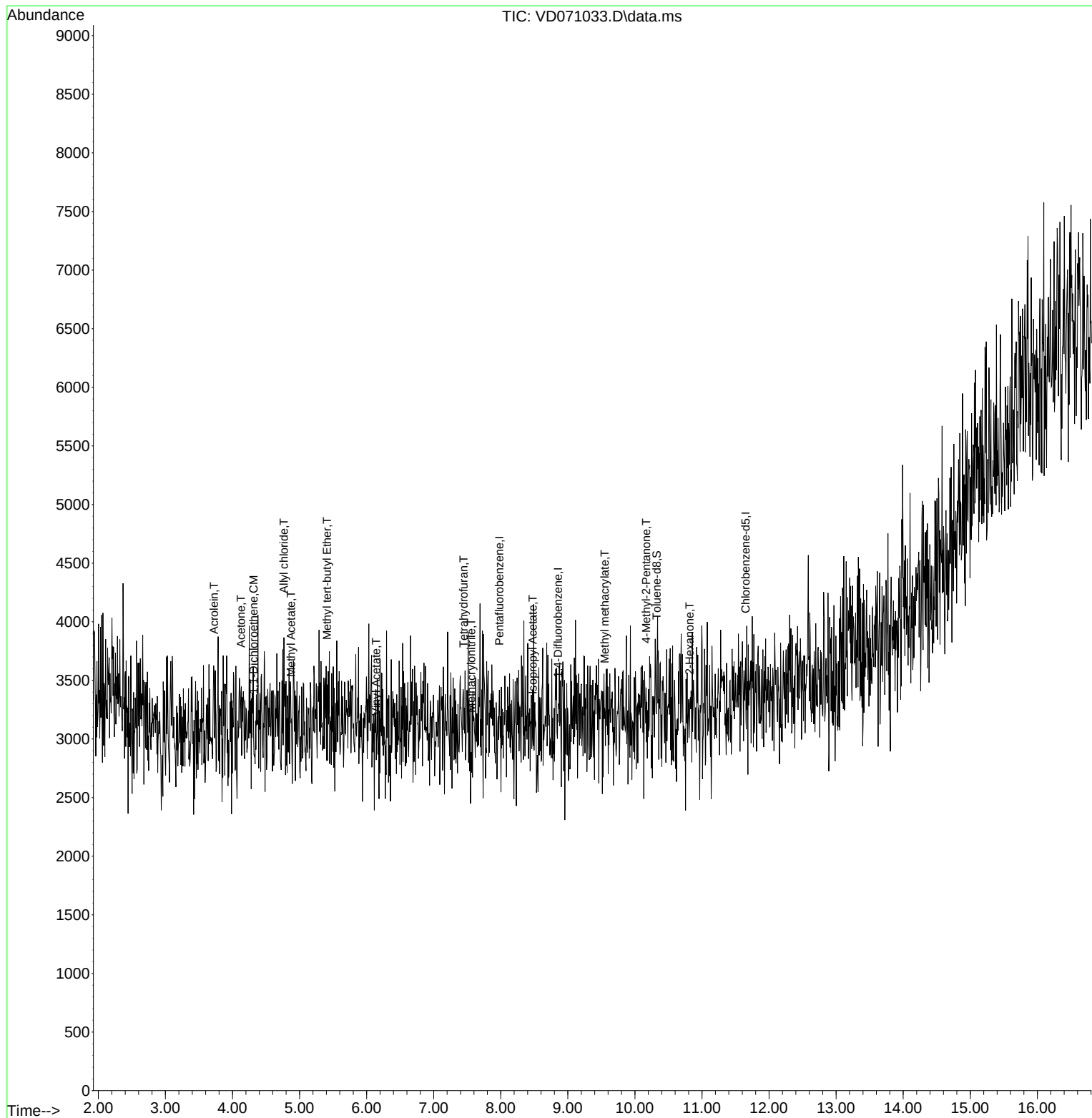
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 7.979  | 168   | 72       | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene     | 8.855  | 114   | 397      | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.649 | 117   | 68       | 50.000   | ug/l   | # 0.01   |
| 72) 1,4-Dichlorobenzene-d4  | 0.000  | 152   | 0        | 0.000    | ug/l   | -13.56   |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 0.000  | 65    | 0        | 0.000    | ug/l   |          |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =      | 0.000%#  |
| 35) Dibromofluoromethane    | 0.000  | 113   | 0        | 0.000    | ug/l   |          |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =      | 0.000%#  |
| 50) Toluene-d8              | 10.326 | 98    | 460      | 52.433   | ug/l   | -0.01    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =      | 104.860% |
| 62) 4-Bromofluorobenzene    | 0.000  | 95    | 0        | 0.000    | ug/l   |          |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =      | 0.000%#  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 12) 1,1-Dichloroethene      | 4.314  | 96    | 60       | 87.758   | ug/l   | # 1      |
| 13) Acrolein                | 3.726  | 56    | 54       | 3217.260 | ug/l   | # 13     |
| 14) Allyl chloride          | 4.767  | 41    | 64       | 44.941   | ug/l   | # 28     |
| 16) Acetone                 | 4.126  | 43    | 64       | 304.465  | ug/l   | # 40     |
| 18) Methyl Acetate          | 4.873  | 43    | 59       | 89.711   | ug/l   | # 51     |
| 19) Methyl tert-butyl Ether | 5.408  | 73    | 58       | 32.861   | ug/l   | # 52     |
| 23) Vinyl Acetate           | 6.144  | 43    | 66       | 60.993   | ug/l   | # 72     |
| 29) Tetrahydrofuran         | 7.443  | 42    | 74       | 475.098  | ug/l   | # 34     |
| 41) Methacrylonitrile       | 7.561  | 41    | 60       | 51.661   | ug/l   | # 12     |
| 43) Isopropyl Acetate       | 8.479  | 43    | 64       | 18.700   | ug/l   | # 47     |
| 48) Methyl methacrylate     | 9.549  | 41    | 68       | 40.501   | ug/l   | # 15     |
| 51) 4-Methyl-2-Pentanone    | 10.167 | 43    | 66       | 39.776   | ug/l   | # 34     |
| 59) 2-Hexanone              | 10.814 | 43    | 59       | 58.507   | ug/l   | # 22     |
| -----                       |        |       |          |          |        |          |

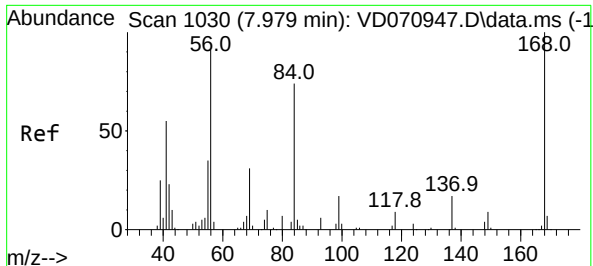
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111521\  
Data File : VD071033.D  
Acq On : 15 Nov 2021 17:36  
Operator : VA/SY  
Sample : M4602-03RE  
Misc : 5.07G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

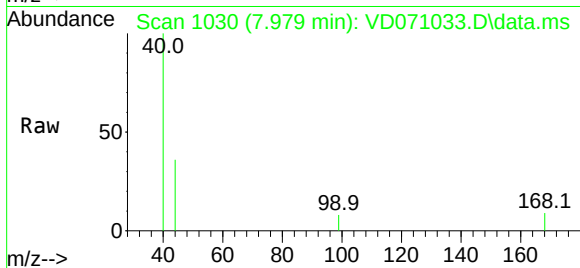
Quant Time: Nov 16 03:22:16 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 10 03:55:51 2021  
Response via : Initial Calibration



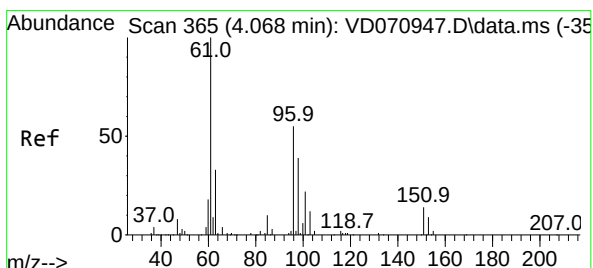
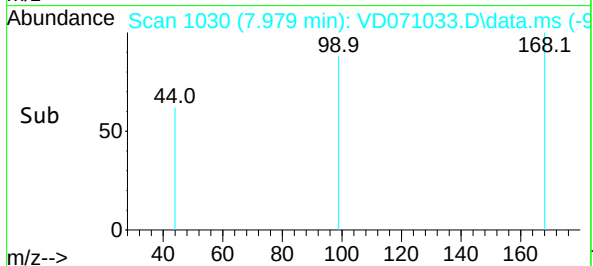
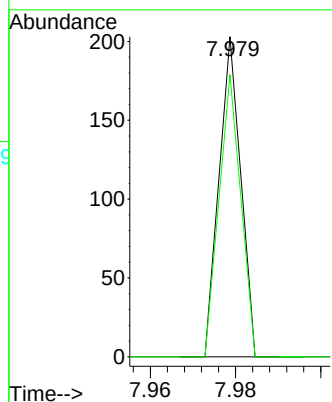


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Instrument :  
MSVOA\_D  
ClientSampleId :

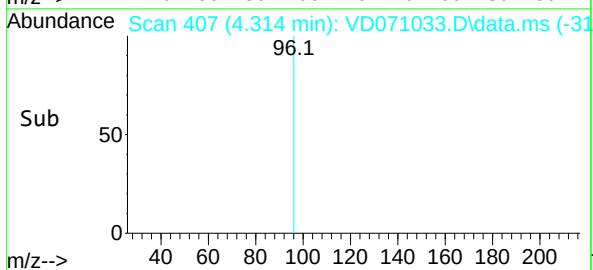
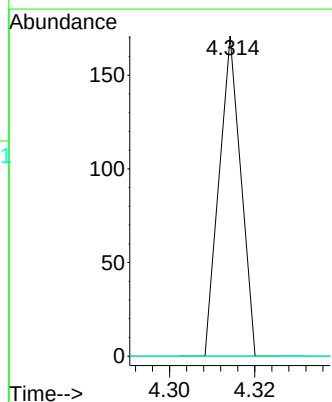
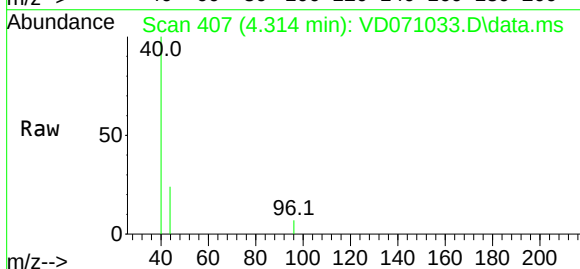


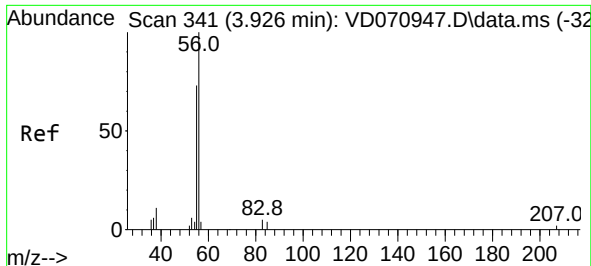
Tgt Ion:168 Resp: 72  
Ion Ratio Lower Upper  
168 100  
99 88.2 46.6 69.8#



#12  
1,1-Dichloroethene  
Concen: 87.758 ug/l  
RT: 4.314 min Scan# 407  
Delta R.T. 0.246 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Tgt Ion: 96 Resp: 60  
Ion Ratio Lower Upper  
96 100  
61 0.0 120.3 180.5#  
98 0.0 54.4 81.6#

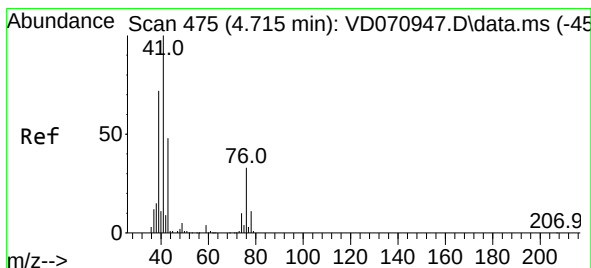
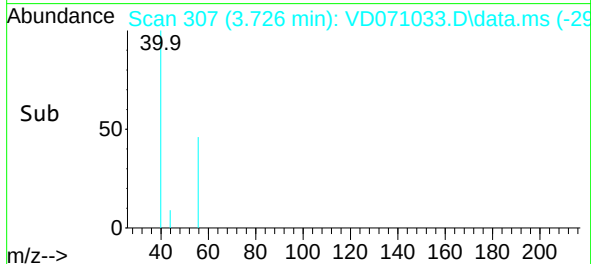
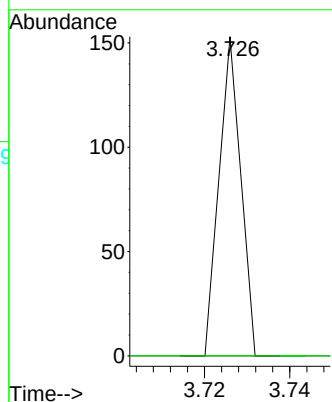
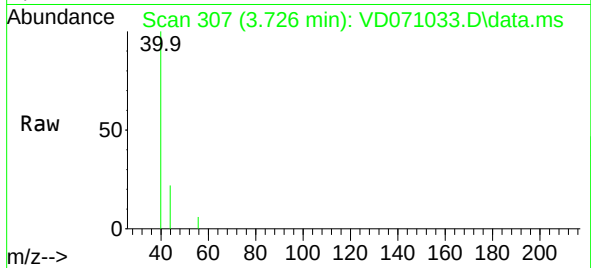




#13  
Acrolein  
Concen: 3217.260 ug/l  
RT: 3.726 min Scan# 30  
Delta R.T. -0.200 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

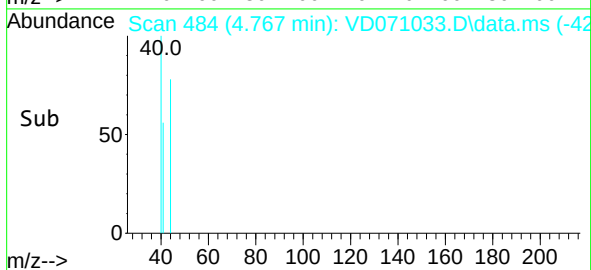
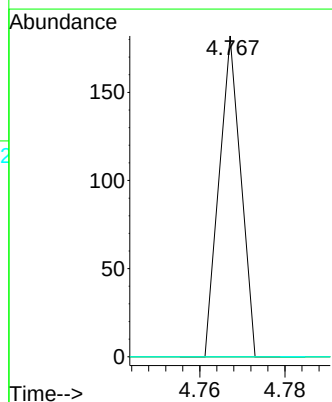
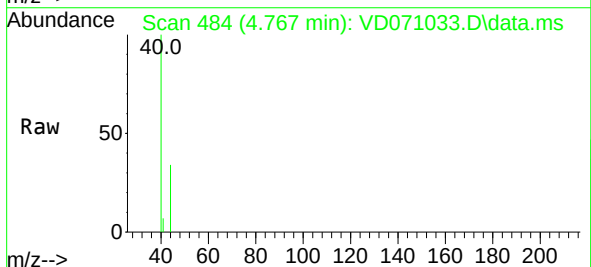
Instrument :  
MSVOA\_D  
ClientSampleId :

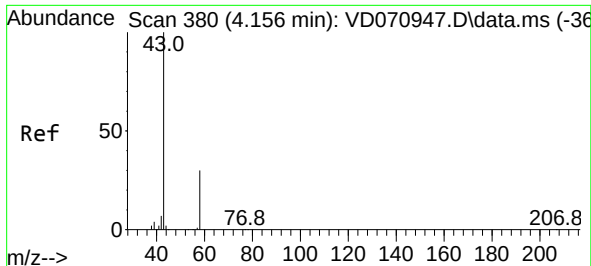
Tgt Ion: 56 Resp: 54  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.6 87.8#



#14  
Allyl chloride  
Concen: 44.941 ug/l  
RT: 4.767 min Scan# 484  
Delta R.T. 0.052 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Tgt Ion: 41 Resp: 64  
Ion Ratio Lower Upper  
41 100  
39 0.0 45.6 68.4#  
76 0.0 30.2 45.4#

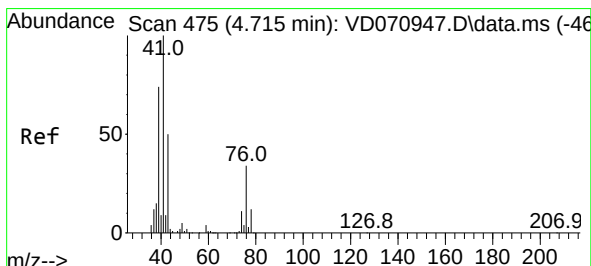
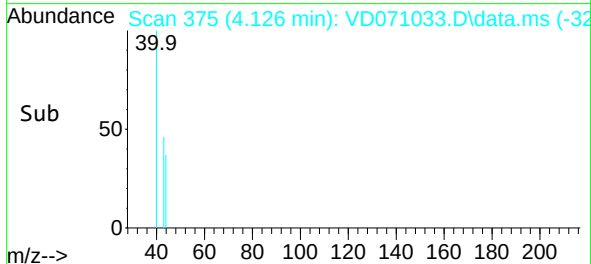
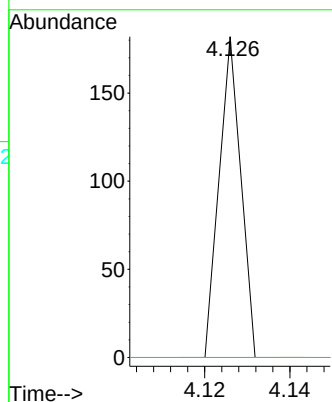
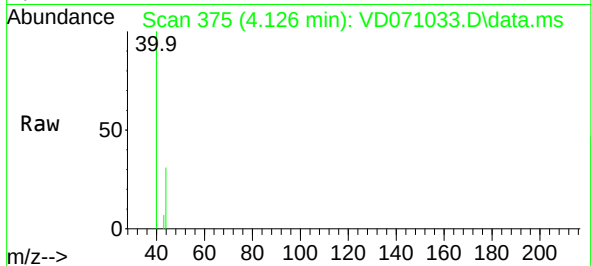




#16  
Acetone  
Concen: 304.465 ug/l  
RT: 4.126 min Scan# 31  
Delta R.T. -0.030 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

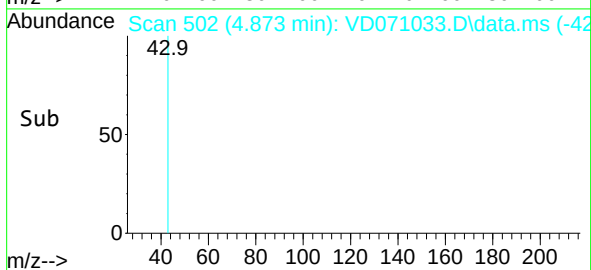
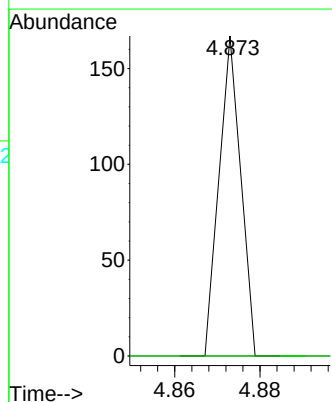
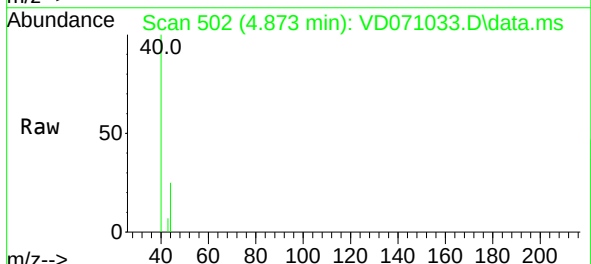
Instrument :  
MSVOA\_D  
ClientSampleId :

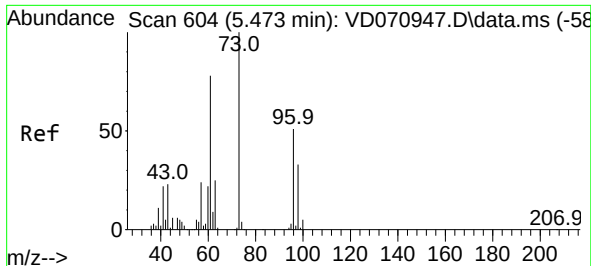
Tgt Ion: 43 Resp: 64  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#



#18  
Methyl Acetate  
Concen: 89.711 ug/l  
RT: 4.873 min Scan# 502  
Delta R.T. 0.158 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

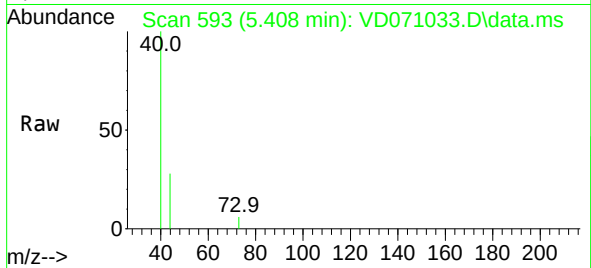
Tgt Ion: 43 Resp: 59  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.3 28.9#



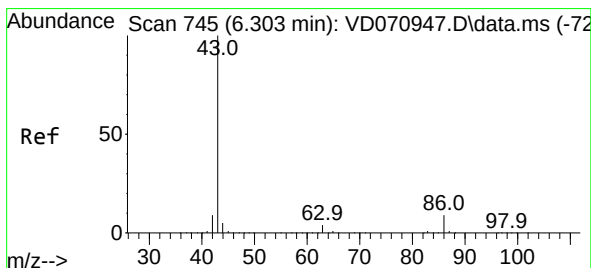
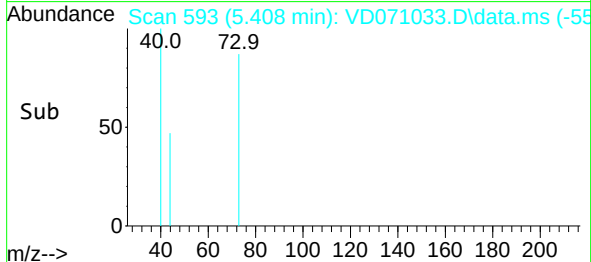
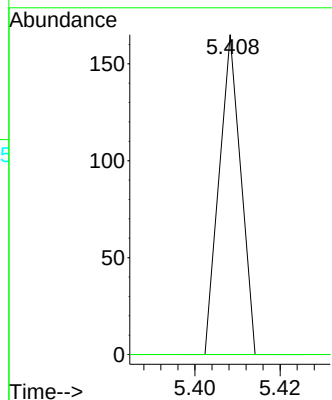


#19  
Methyl tert-butyl Ether  
Concen: 32.861 ug/l  
RT: 5.408 min Scan# 51  
Delta R.T. -0.065 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Instrument :  
MSVOA\_D  
ClientSampleId :

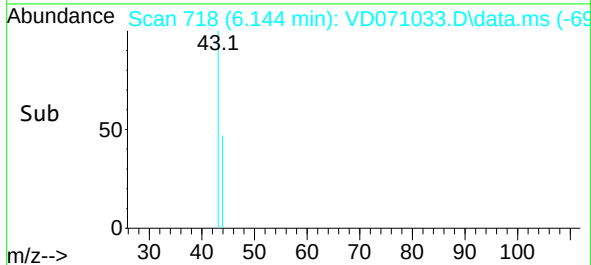
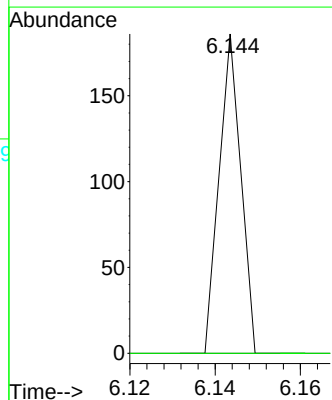
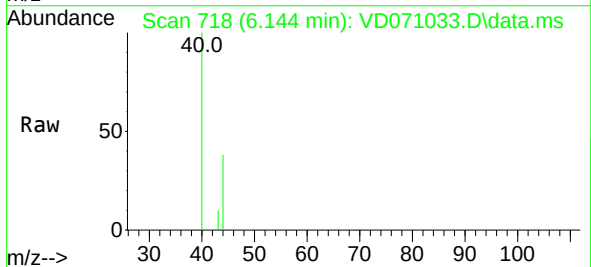


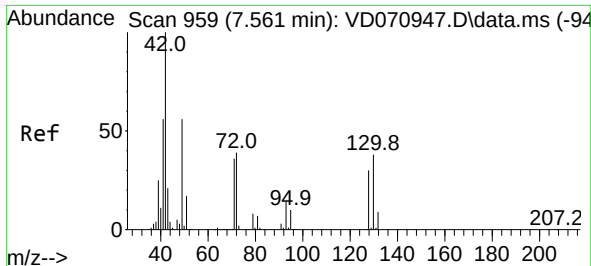
Tgt Ion: 73 Resp: 58  
Ion Ratio Lower Upper  
73 100  
57 0.0 18.9 28.3#



#23  
Vinyl Acetate  
Concen: 60.993 ug/l  
RT: 6.144 min Scan# 718  
Delta R.T. -0.159 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Tgt Ion: 43 Resp: 66  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.2 12.4#





#29

Tetrahydrofuran

Concen: 475.098 ug/l

RT: 7.443 min Scan# 91

Delta R.T. -0.118 min

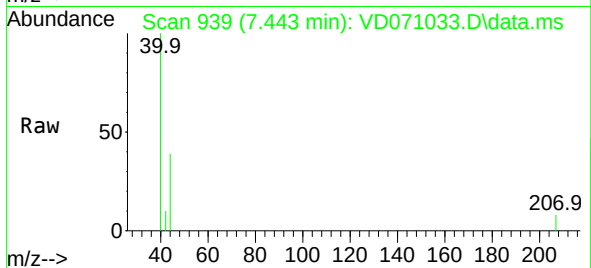
Lab File: VD071033.D

Acq: 15 Nov 2021 17:36

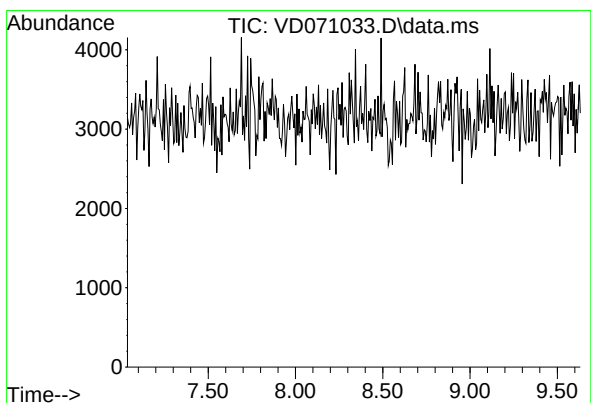
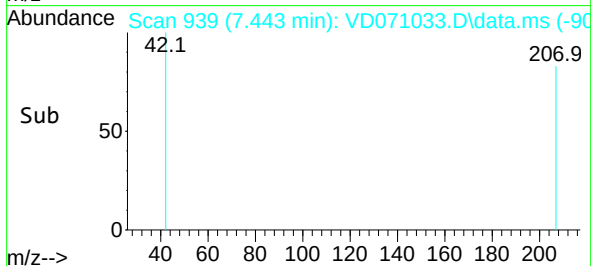
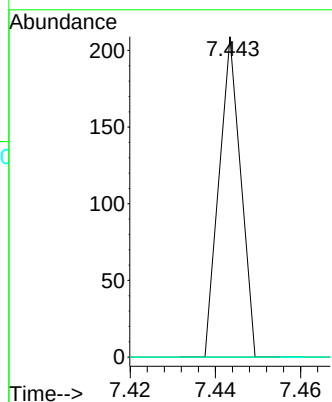
Instrument :

MSVOA\_D

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 74    |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 33.7  | 50.5# |
| 71       | 0.0   | 32.7  | 49.1# |



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.33 min

Lab File: VD071033.D

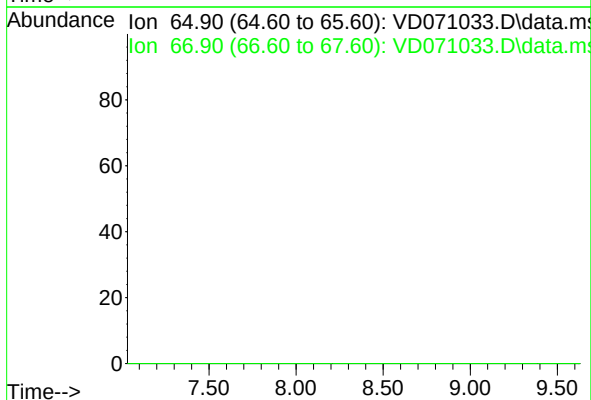
Acq: 15 Nov 2021 17:36

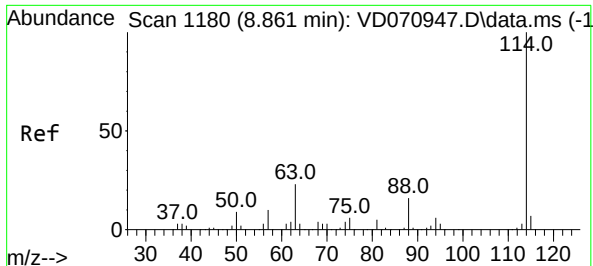
Tgt Ion: 65

Sig Exp Ratio

65 100

67 56.1





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 11

Delta R.T. -0.006 min

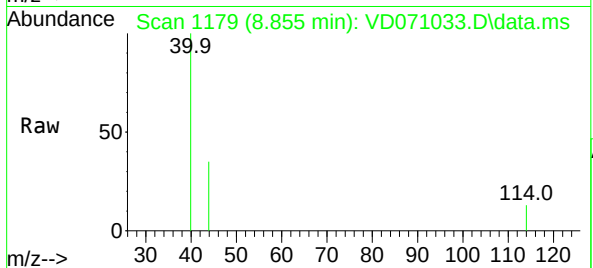
Lab File: VD071033.D

Acq: 15 Nov 2021 17:36

Instrument :

MSVOA\_D

ClientSampleId :



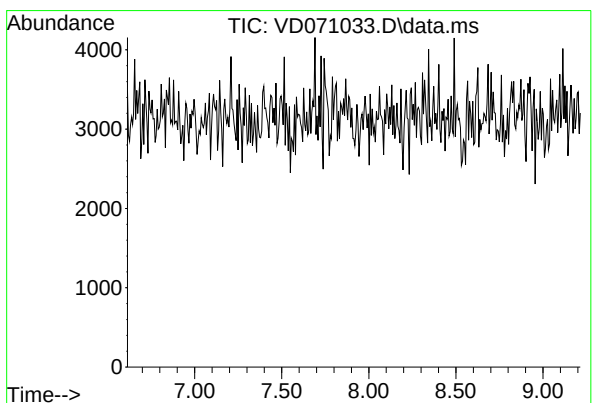
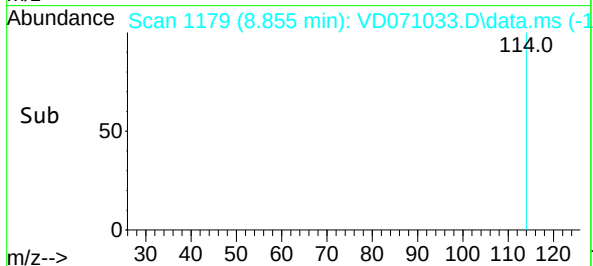
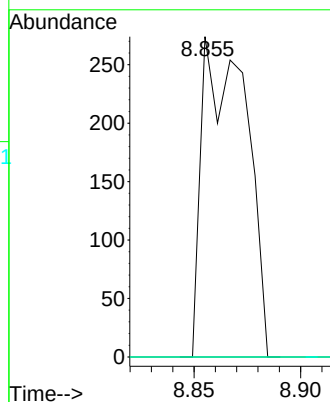
Tgt Ion:114 Resp: 397

Ion Ratio Lower Upper

114 100

63 0.0 0.0 41.8

88 0.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 7.91 min

Lab File: VD071033.D

Acq: 15 Nov 2021 17:36

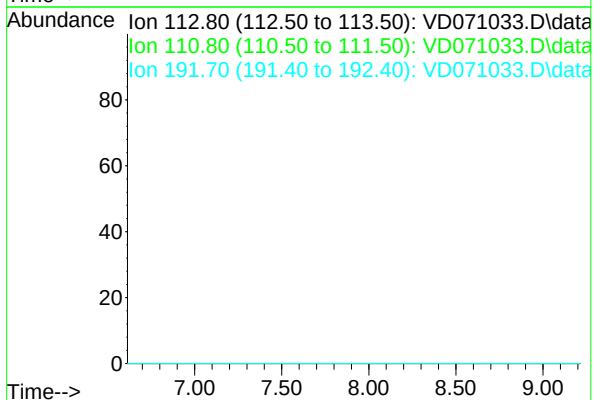
Tgt Ion: 113

Sig Exp Ratio

113 100

111 102.5

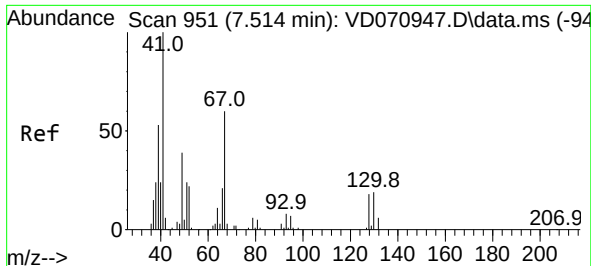
192 19.0



Ion 110.80 (110.50 to 111.50): VD071033.D\data.ms

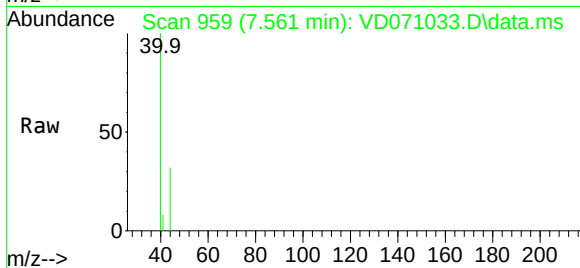
Ion 191.70 (191.40 to 192.40): VD071033.D\data.ms



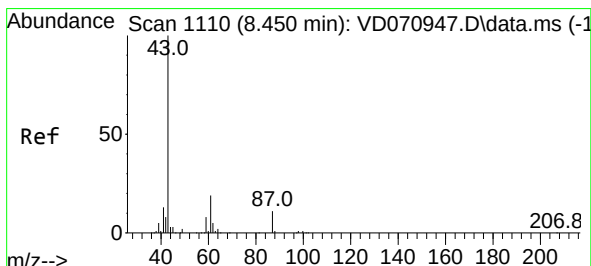
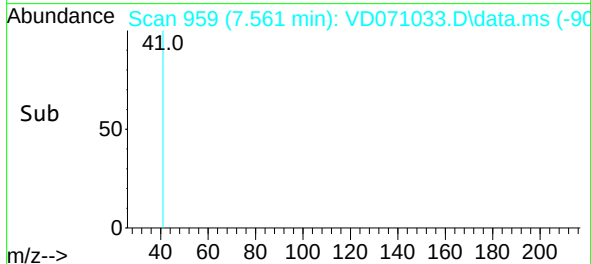
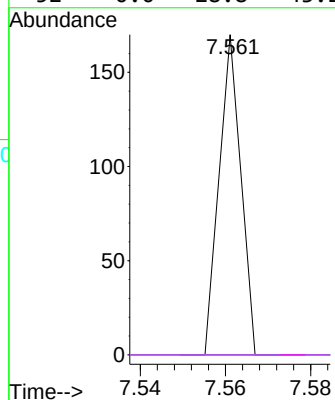


#41  
Methacrylonitrile  
Concen: 51.661 ug/l  
RT: 7.561 min Scan# 91  
Delta R.T. 0.047 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Instrument :  
MSVOA\_D  
ClientSampleId :

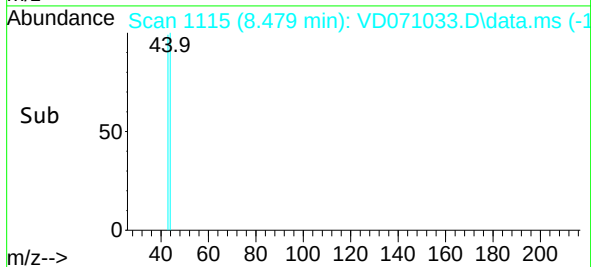
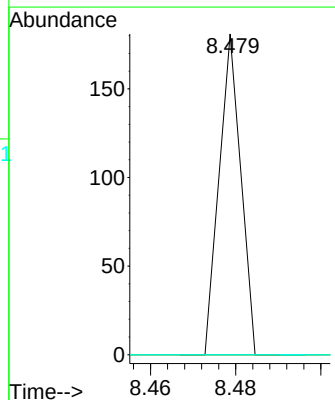
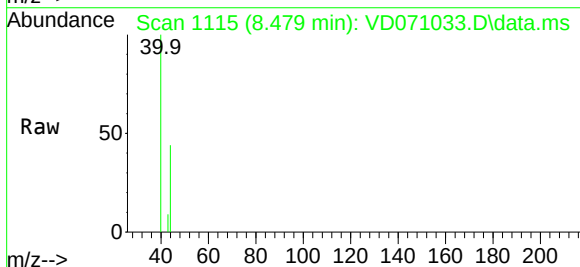


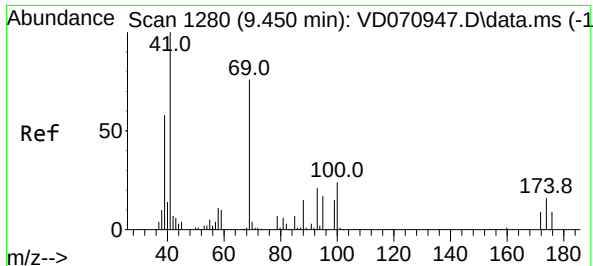
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 41 | Resp: | 60          |
| Ion         | Ratio | Lower Upper |
| 41          | 100   |             |
| 39          | 0.0   | 60.2 90.4#  |
| 67          | 0.0   | 74.8 112.2# |
| 52          | 0.0   | 28.8 43.2#  |



#43  
Isopropyl Acetate  
Concen: 18.700 ug/l  
RT: 8.479 min Scan# 1115  
Delta R.T. 0.029 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 64          |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 61          | 0.0   | 28.2 42.4#  |
| 87          | 0.0   | 10.7 16.1#  |





#48

Methyl methacrylate

Concen: 40.501 ug/l

RT: 9.549 min Scan# 11

Delta R.T. 0.099 min

Lab File: VD071033.D

Acq: 15 Nov 2021 17:36

Instrument :

MSVOA\_D

ClientSampleId :

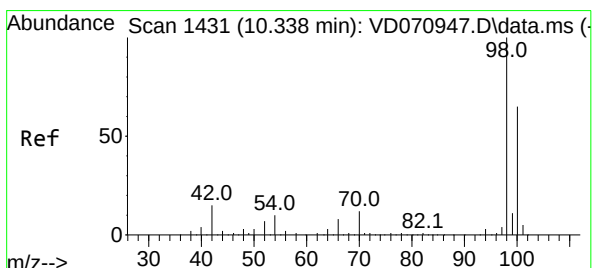
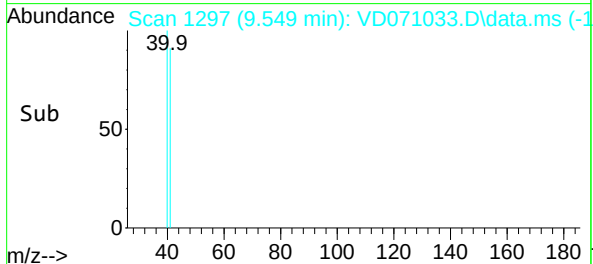
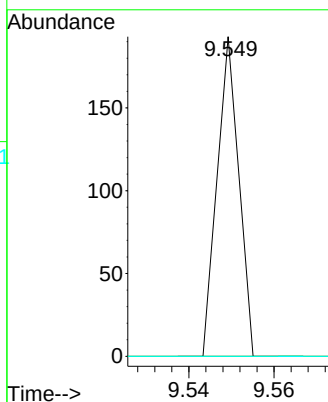
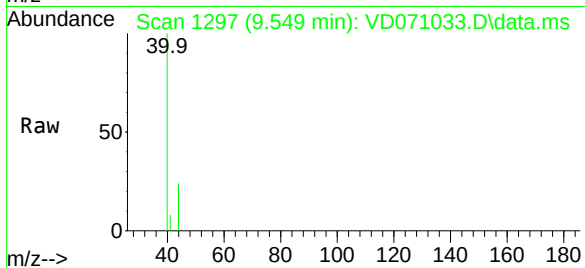
Tgt Ion: 41 Resp: 68

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#



#50

Toluene-d8

Concen: 52.433 ug/l

RT: 10.326 min Scan# 1429

Delta R.T. -0.012 min

Lab File: VD071033.D

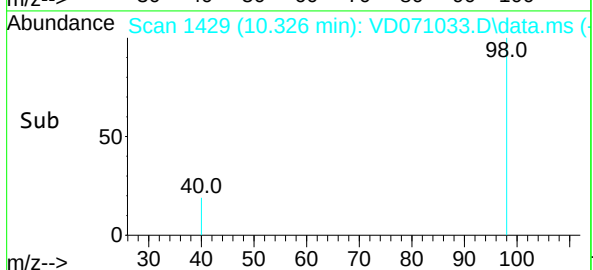
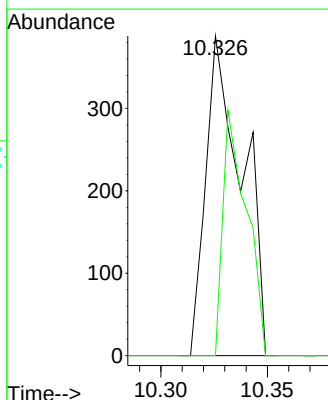
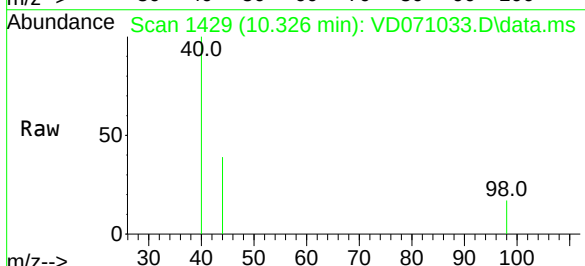
Acq: 15 Nov 2021 17:36

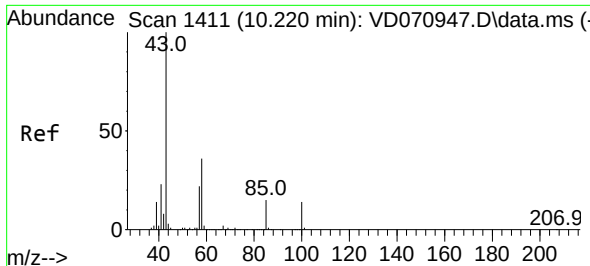
Tgt Ion: 98 Resp: 460

Ion Ratio Lower Upper

98 100

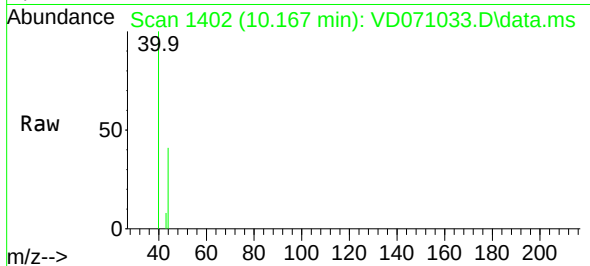
100 49.8 51.8 77.6#



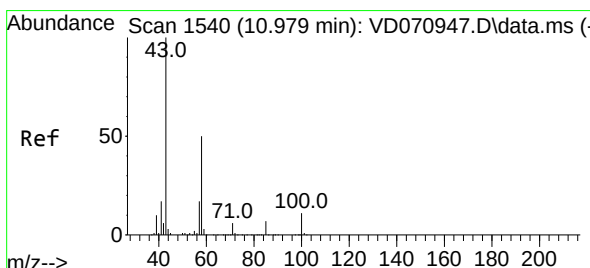
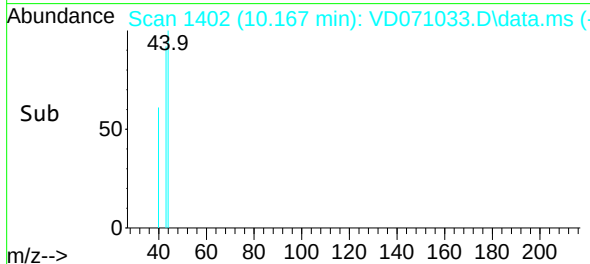
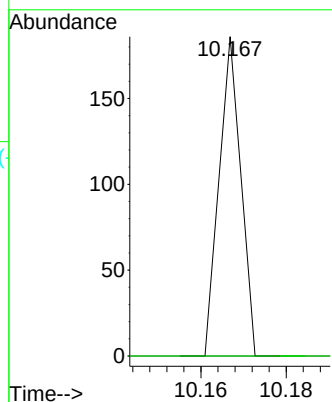


#51  
4-Methyl-2-Pentanone  
Concen: 39.776 ug/l  
RT: 10.167 min Scan# 1411  
Delta R.T. -0.053 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Instrument :  
MSVOA\_D  
ClientSampleId :

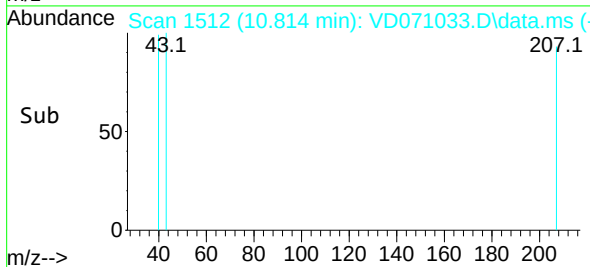
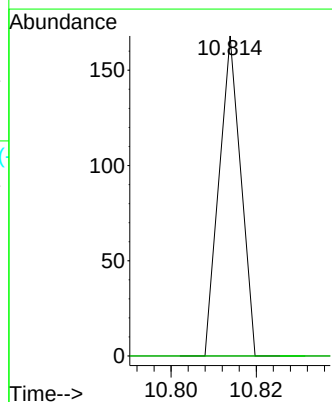
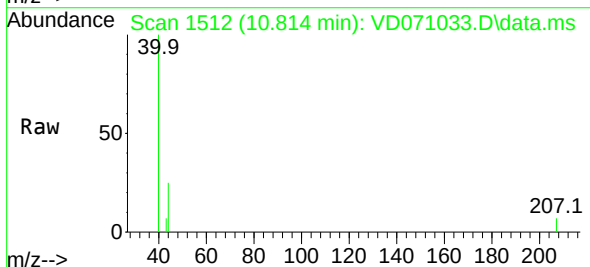


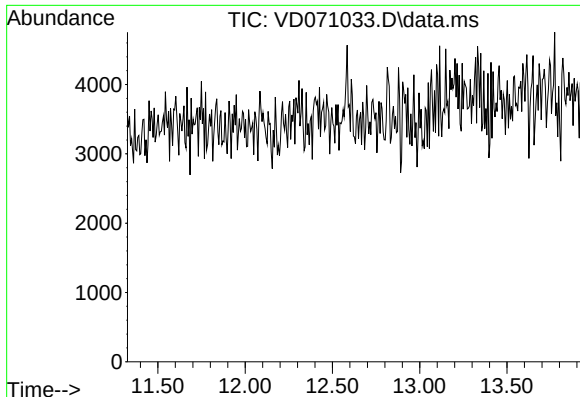
Tgt Ion: 43 Resp: 66  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#



#59  
2-Hexanone  
Concen: 58.507 ug/l  
RT: 10.814 min Scan# 1512  
Delta R.T. -0.165 min  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Tgt Ion: 43 Resp: 59  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#

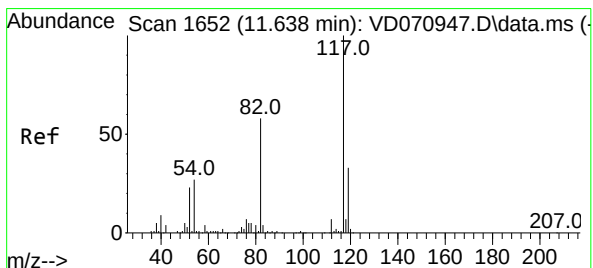
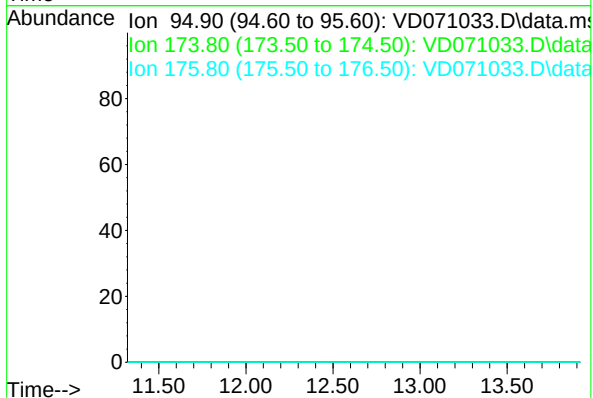




#62  
 4-Bromofluorobenzene  
 Concen: 0.000 ug/l  
 Expected RT: 12.62 min  
 Lab File: VD071033.D  
 Acq: 15 Nov 2021 17:36

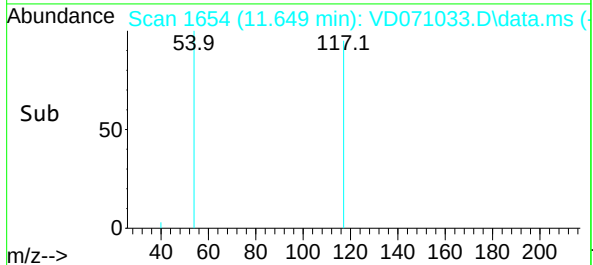
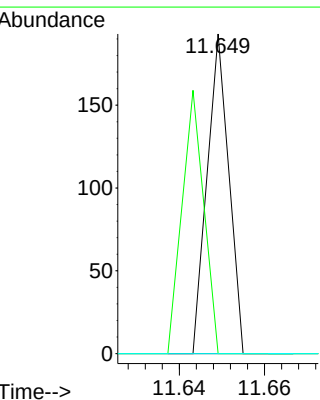
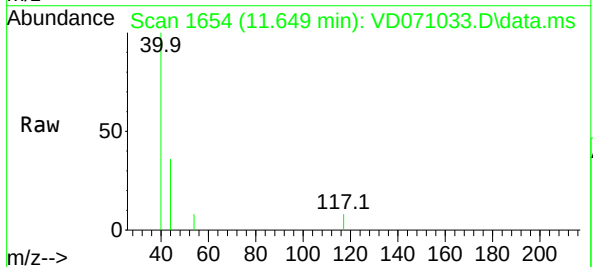
Instrument :  
 MSVOA\_D  
 ClientSampleId :

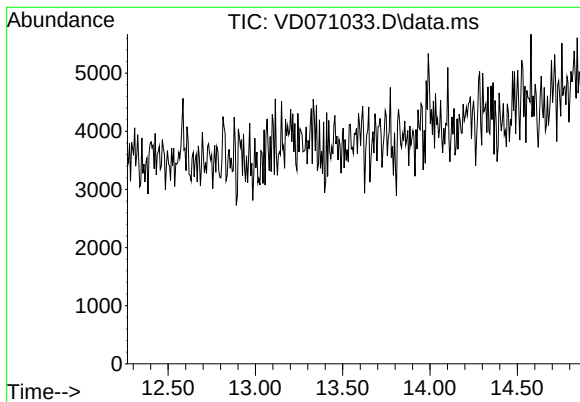
Tgt Ion: 95  
 Sig Exp Ratio  
 95 100  
 174 79.7  
 176 77.0



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.649 min Scan# 1654  
 Delta R.T. 0.011 min  
 Lab File: VD071033.D  
 Acq: 15 Nov 2021 17:36

Tgt Ion:117 Resp: 68  
 Ion Ratio Lower Upper  
 117 100  
 82 0.0 44.7 67.1#  
 119 0.0 26.2 39.4#





#72  
1,4-Dichlorobenzene-d4  
Concen: 0.000 ug/l  
Expected RT: 13.56 min  
  
Lab File: VD071033.D  
Acq: 15 Nov 2021 17:36

Instrument :  
MSVOA\_D  
ClientSampleId :

| Tgt Ion: | 152       |
|----------|-----------|
| Sig      | Exp Ratio |
| 152      | 100       |
| 115      | 59.5      |
| 150      | 174.6     |

