

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111121\  
 Data File : VD070982.D  
 Acq On : 11 Nov 2021 10:36  
 Operator : VA/SY  
 Sample : VD1111SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 12 07:57:26 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

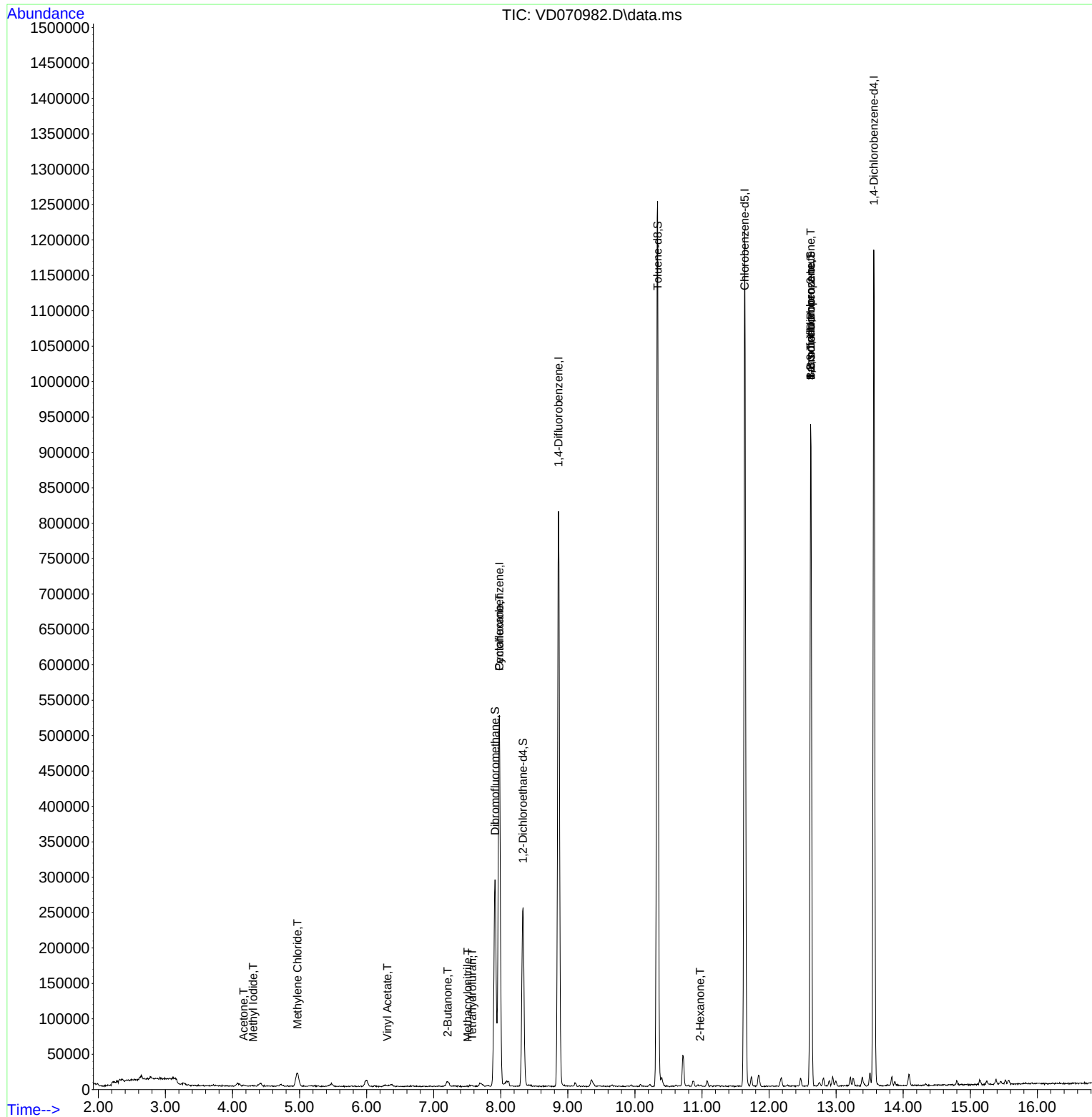
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 369343   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 672713   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 632128   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 293601   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 198339   | 50.437    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 100.880% |          |
| 35) Dibromofluoromethane      | 7.914  | 113   | 205667   | 54.180    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 108.360% |          |
| 50) Toluene-d8                | 10.338 | 98    | 837879   | 56.362    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 112.720% |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 307292   | 57.409    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 114.820% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 10) Methyl Iodide             | 4.309  | 142   | 1191     | 6.266     | ug/l #     | 72       |
| 13) Acrolein                  | 3.903  | 56    | 112      | Below Cal | #          | 33       |
| 16) Acetone                   | 4.167  | 43    | 2019     | 21.547    | ug/l #     | 40       |
| 20) Methylene Chloride        | 4.967  | 84    | 13648    | 2.651     | ug/l       | 96       |
| 23) Vinyl Acetate             | 6.308  | 43    | 2582     | 21.288    | ug/l #     | 72       |
| 25) 2-Butanone                | 7.208  | 43    | 214      | 20.511    | ug/l #     | 45       |
| 29) Tetrahydrofuran           | 7.573  | 42    | 1087     | 1.360     | ug/l #     | 39       |
| 31) Cyclohexane               | 7.979  | 56    | 13316    | 1.647     | ug/l #     | 26       |
| 41) Methacrylonitrile         | 7.508  | 41    | 169      | 3.584     | ug/l #     | 12       |
| 59) 2-Hexanone                | 10.973 | 43    | 1689     | 16.654    | ug/l       | 67       |
| 71) Bromoform                 | 12.620 | 173   | 2987     | 1.431     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 161978   | 64.586    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 161978   | 119.420   | ug/l #     | 18       |
| -----                         |        |       |          |           |            |          |

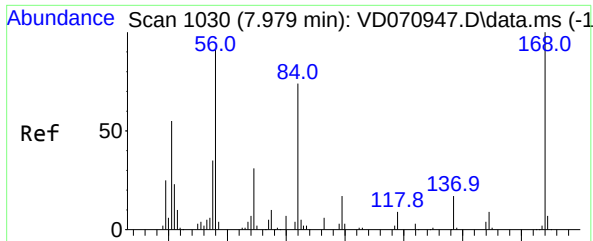
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111121\  
Data File : VD070982.D  
Acq On : 11 Nov 2021 10:36  
Operator : VA/SY  
Sample : VD1111SBL01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

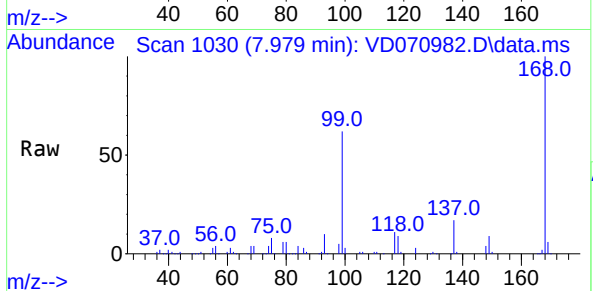
Quant Time: Nov 12 07:57:26 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110921S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 10 03:55:51 2021  
Response via : Initial Calibration



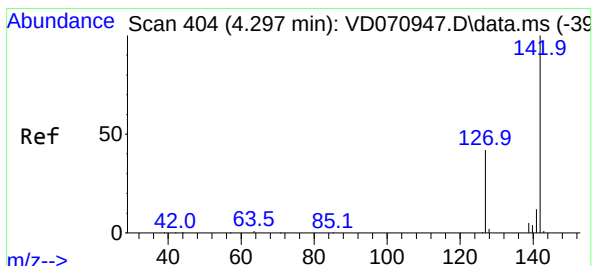
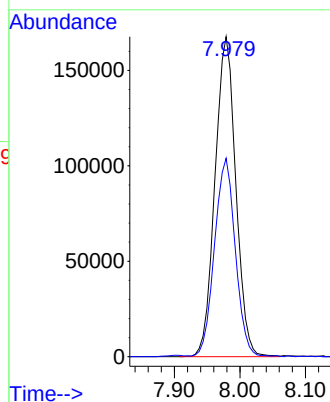
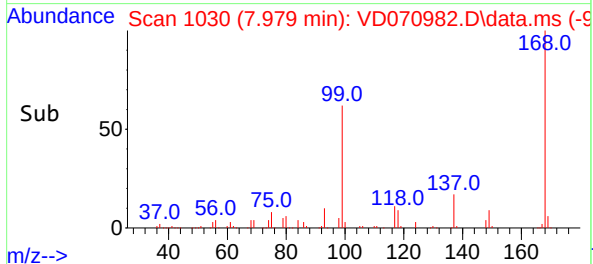


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Instrument :  
MSVOA\_D  
ClientSampleId :

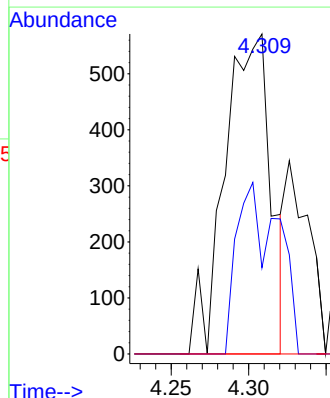
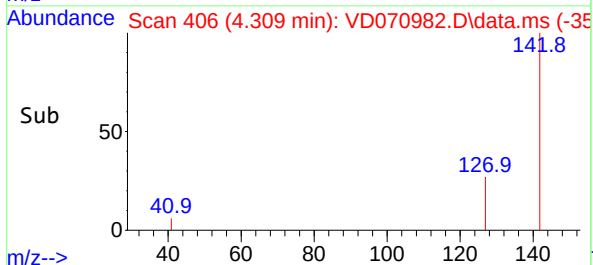
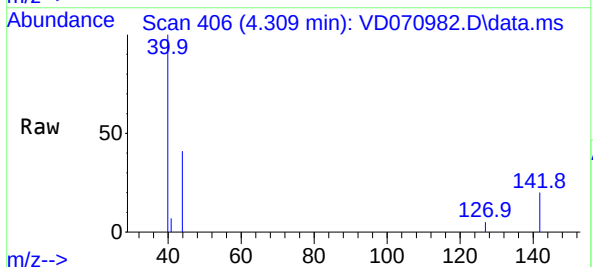


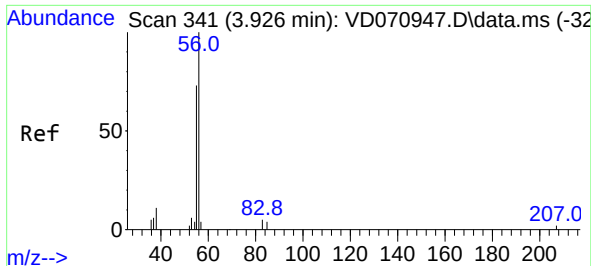
Tgt Ion:168 Resp: 369343  
Ion Ratio Lower Upper  
168 100  
99 61.9 46.6 69.8



#10  
Methyl Iodide  
Concen: 6.266 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Tgt Ion:142 Resp: 1191  
Ion Ratio Lower Upper  
142 100  
127 27.7 35.0 52.4#  
141 0.0 12.0 18.0#

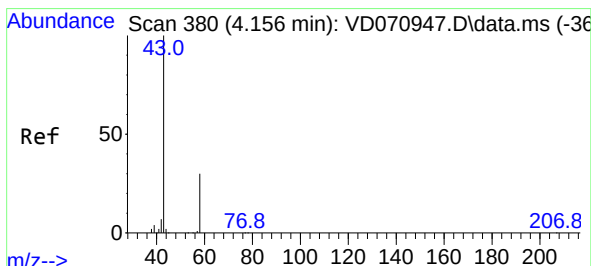
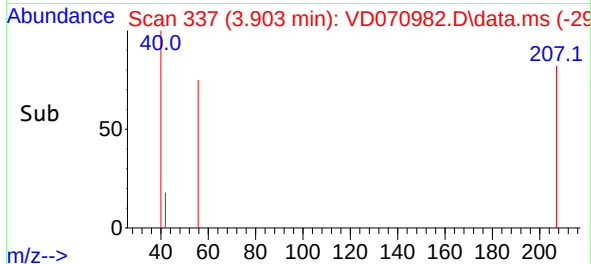
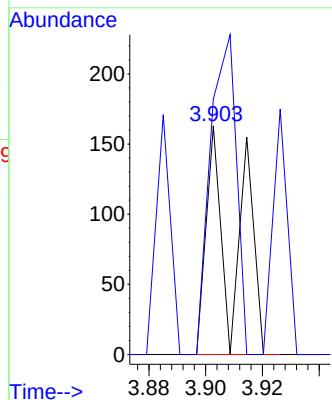
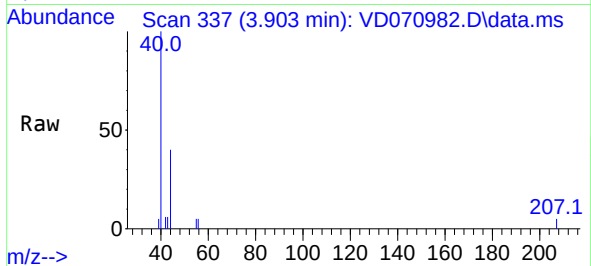




#13  
Acrolein  
Concen: Below Cal  
RT: 3.903 min Scan# 31  
Delta R.T. -0.023 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

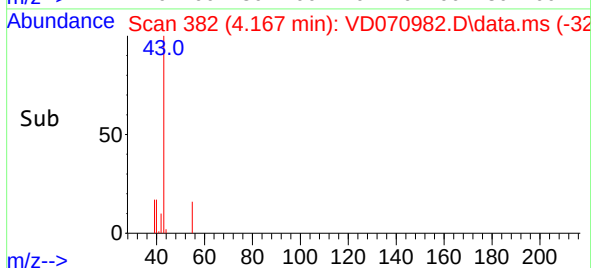
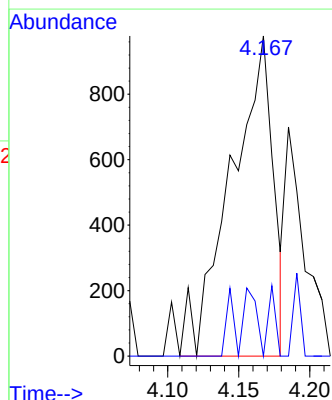
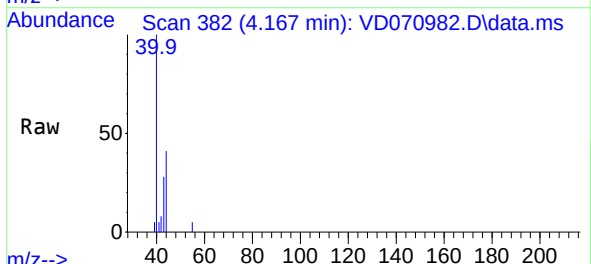
Instrument :  
MSVOA\_D  
ClientSampleId :

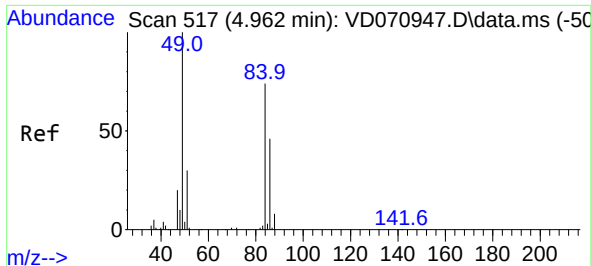
Tgt Ion: 56 Resp: 112  
Ion Ratio Lower Upper  
56 100  
55 129.5 58.6 87.8#



#16  
Acetone  
Concen: 21.547 ug/l  
RT: 4.167 min Scan# 382  
Delta R.T. 0.011 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

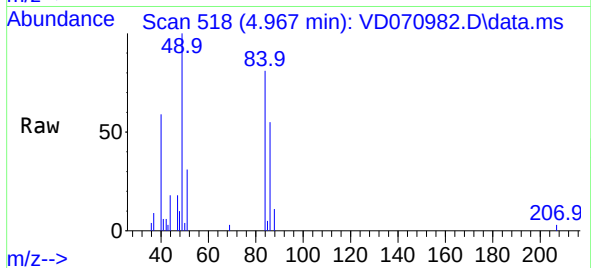
Tgt Ion: 43 Resp: 2019  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#





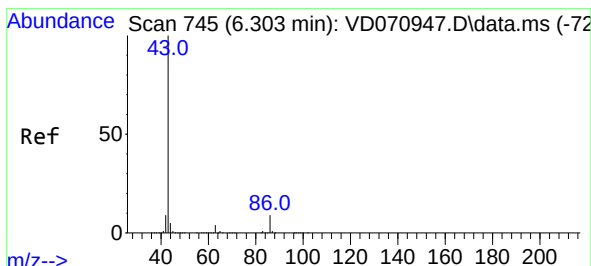
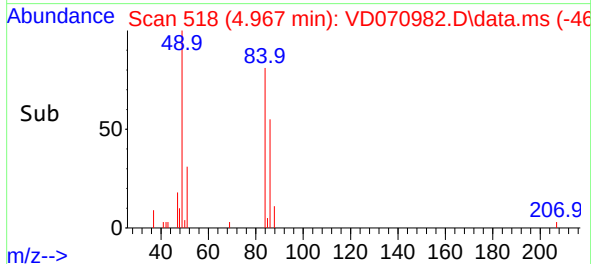
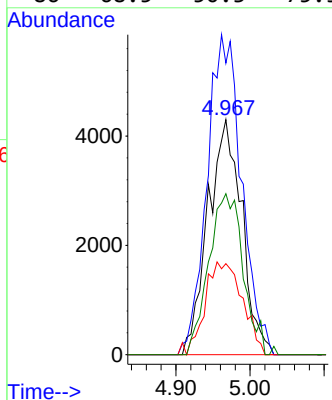
#20  
Methylene Chloride  
Concen: 2.651 ug/l  
RT: 4.967 min Scan# 517  
Delta R.T. 0.005 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 84 Resp: 13648

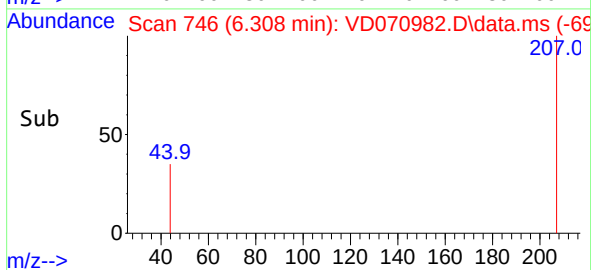
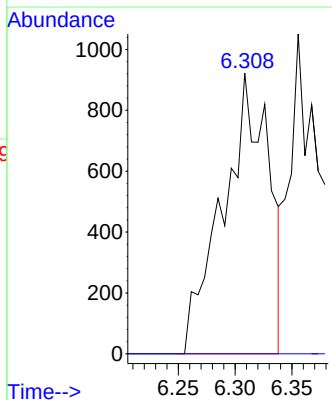
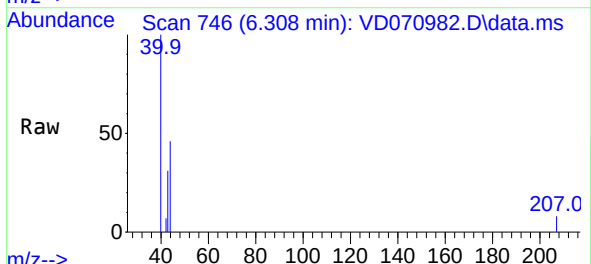
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 124.1 | 95.8  | 143.6 |
| 51  | 38.8  | 30.9  | 46.3  |
| 86  | 68.5  | 50.3  | 75.5  |

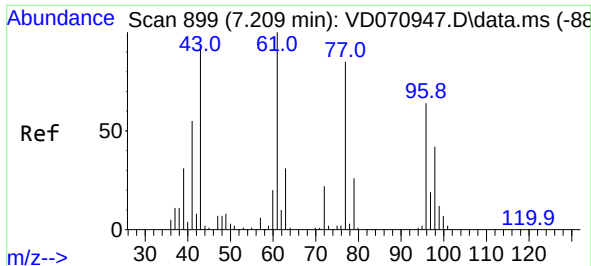


#23  
Vinyl Acetate  
Concen: 21.288 ug/l  
RT: 6.308 min Scan# 746  
Delta R.T. 0.005 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Tgt Ion: 43 Resp: 2582

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.0   | 8.2   | 12.4# |

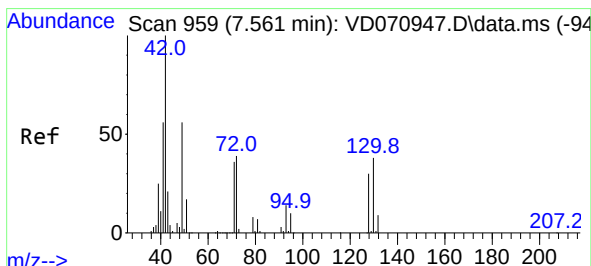
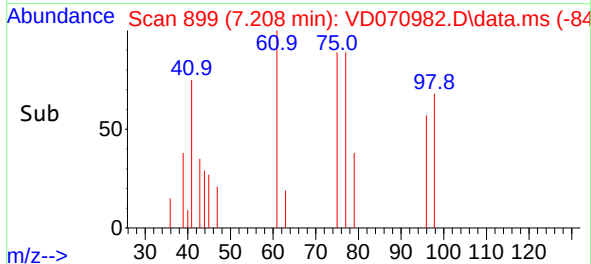
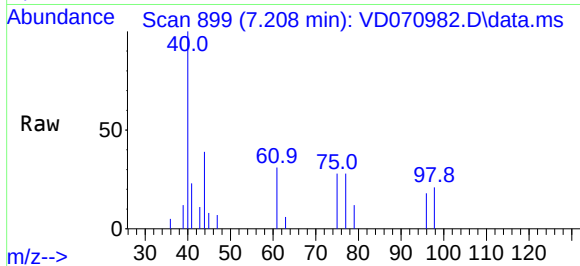




#25  
2-Butanone  
Concen: 20.511 ug/l  
RT: 7.208 min Scan# 899  
Delta R.T. -0.001 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

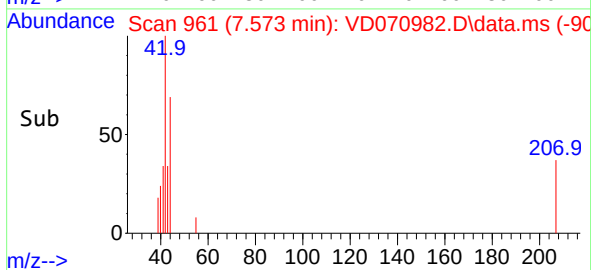
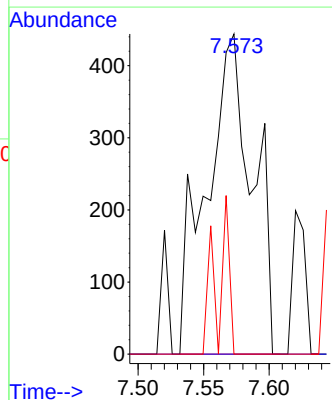
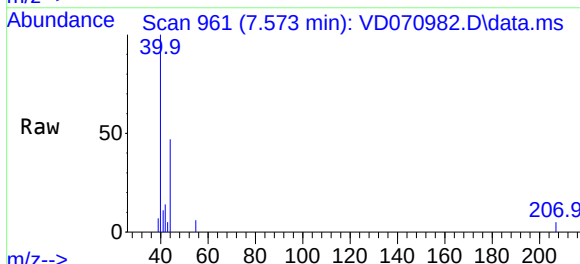
Instrument :  
MSVOA\_D  
ClientSampleId :

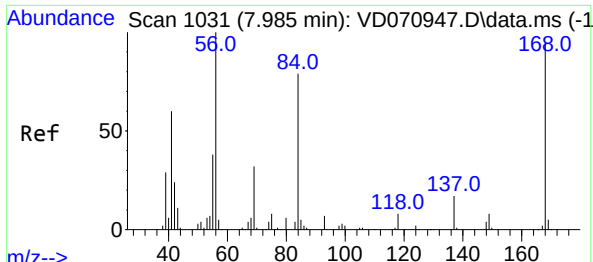
Tgt Ion: 43 Resp: 214  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.8 35.6#



#29  
Tetrahydrofuran  
Concen: 1.360 ug/l  
RT: 7.573 min Scan# 961  
Delta R.T. 0.012 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

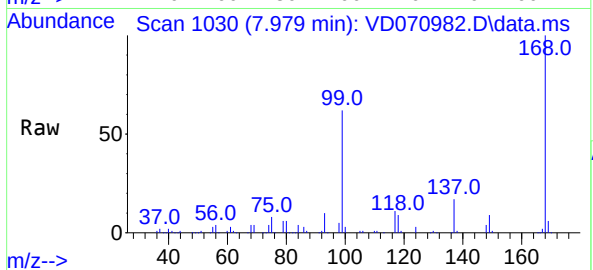
Tgt Ion: 42 Resp: 1087  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.7 50.5#  
71 5.8 32.7 49.1#



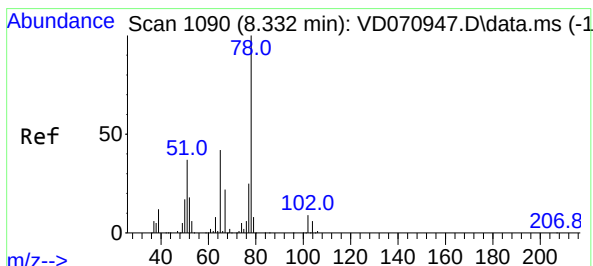
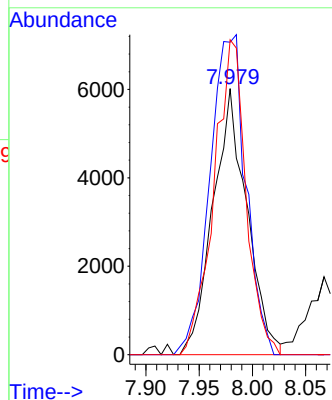
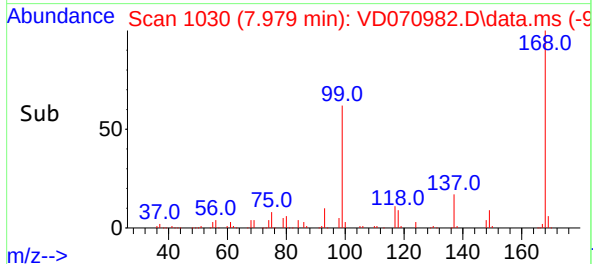


#31  
Cyclohexane  
Concen: 1.647 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Instrument :  
MSVOA\_D  
ClientSampleId :

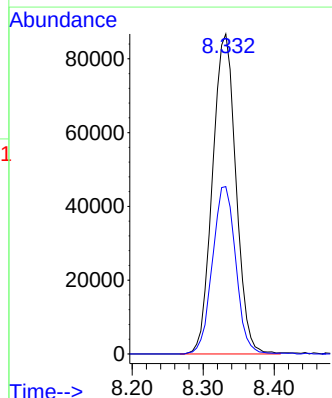
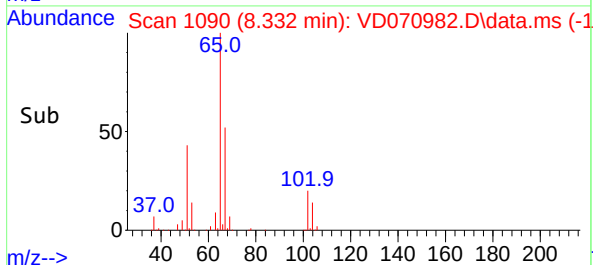
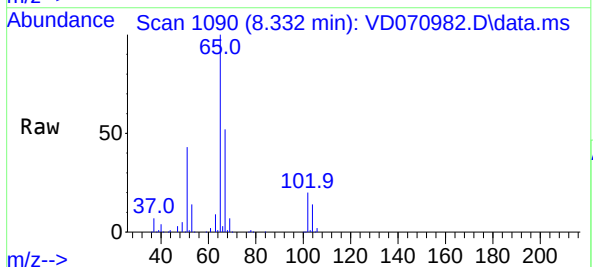


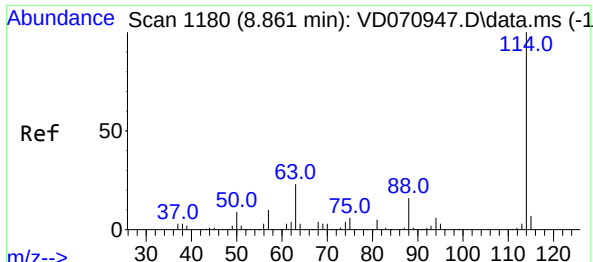
Tgt Ion: 56 Resp: 13316  
Ion Ratio Lower Upper  
56 100  
69 117.4 25.9 38.9#  
84 118.3 64.3 96.5#



#33  
1,2-Dichloroethane-d4  
Concen: 50.437 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. -0.000 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Tgt Ion: 65 Resp: 198339  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070982.D

Acq: 11 Nov 2021 10:36

Instrument :

MSVOA\_D

ClientSampleId :

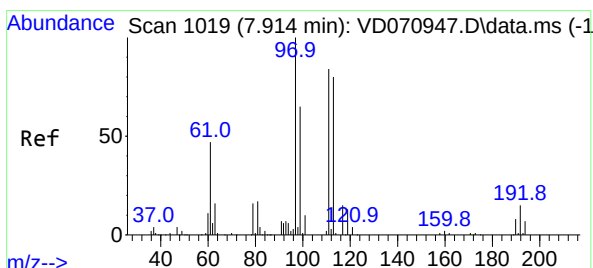
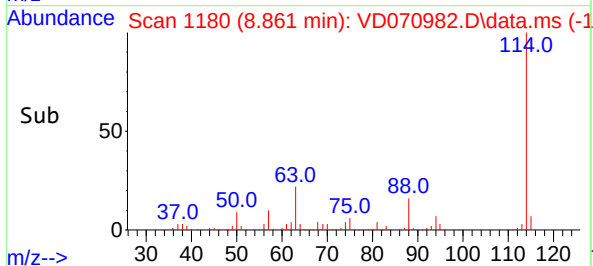
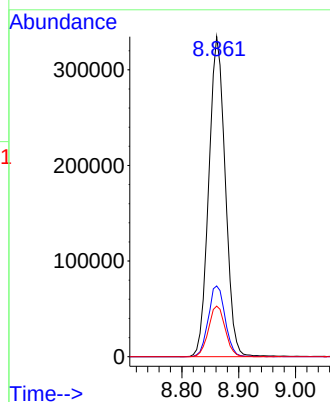
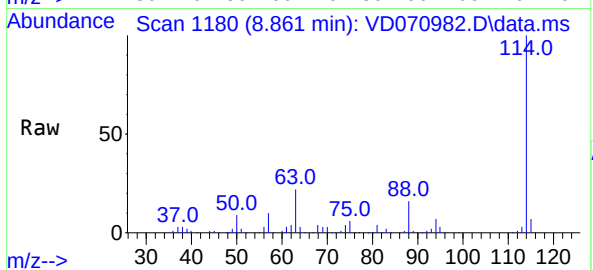
Tgt Ion:114 Resp: 672713

Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.8

88 15.8 0.0 32.8



#35

Dibromofluoromethane

Concen: 54.180 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD070982.D

Acq: 11 Nov 2021 10:36

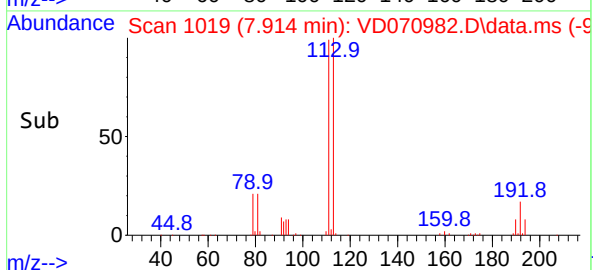
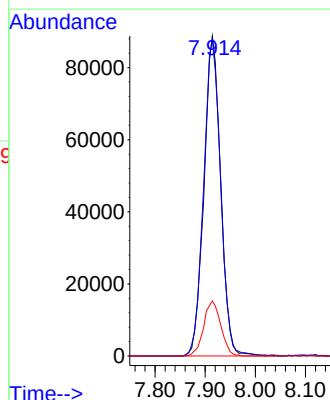
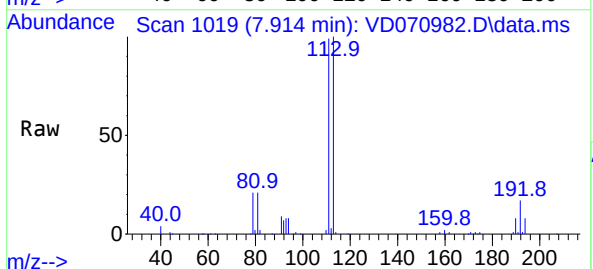
Tgt Ion:113 Resp: 205667

Ion Ratio Lower Upper

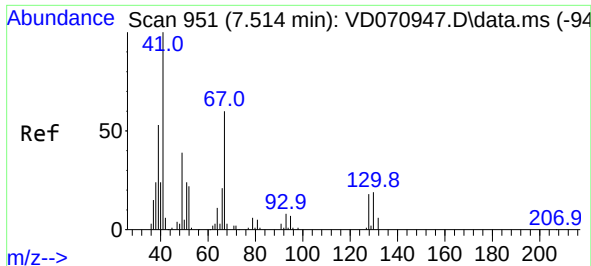
113 100

111 100.5 82.0 123.0

192 17.6 15.2 22.8

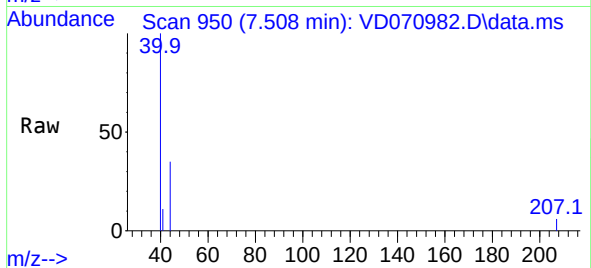






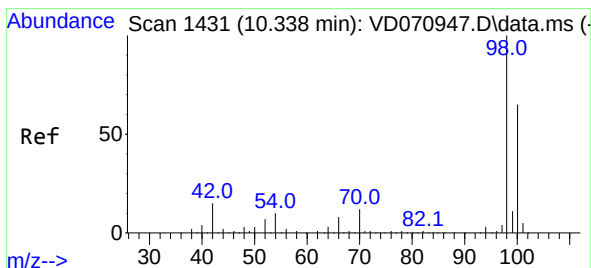
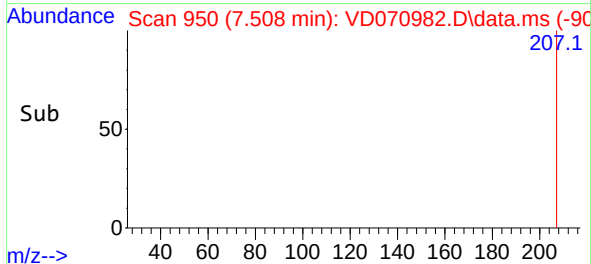
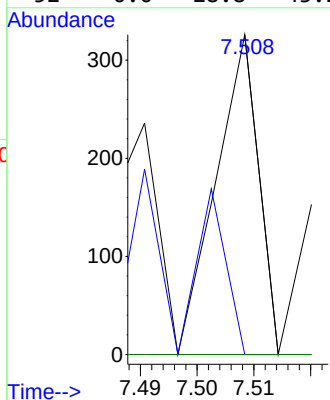
#41  
Methacrylonitrile  
Concen: 3.584 ug/l  
RT: 7.508 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 41 Resp: 169

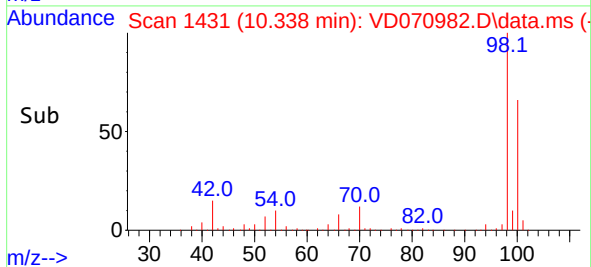
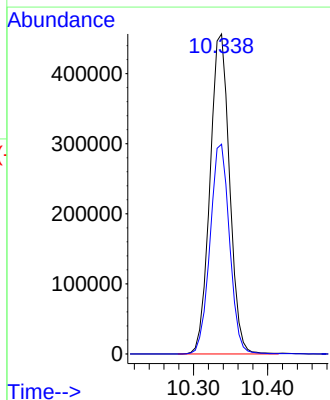
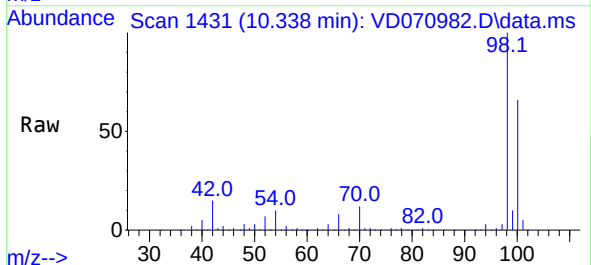
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 41  | 100   |       |        |
| 39  | 0.0   | 60.2  | 90.4#  |
| 67  | 0.0   | 74.8  | 112.2# |
| 52  | 0.0   | 28.8  | 43.2#  |

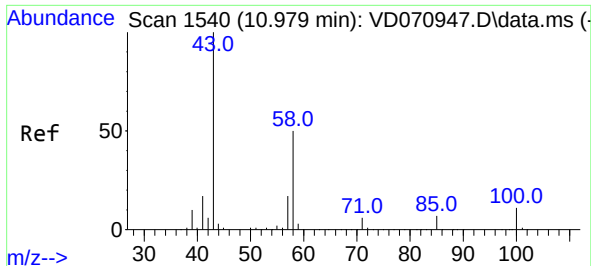


#50  
Toluene-d8  
Concen: 56.362 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Tgt Ion: 98 Resp: 837879

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 65.2  | 51.8  | 77.6  |

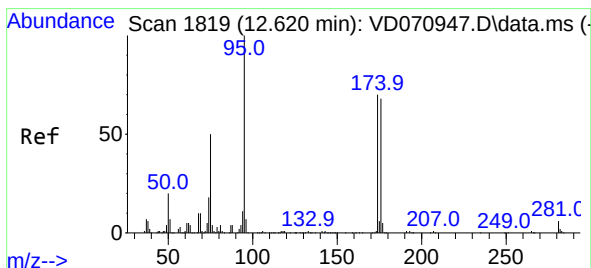
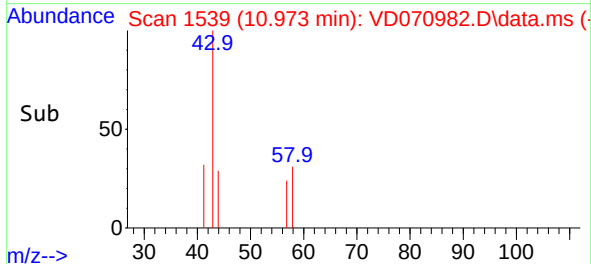
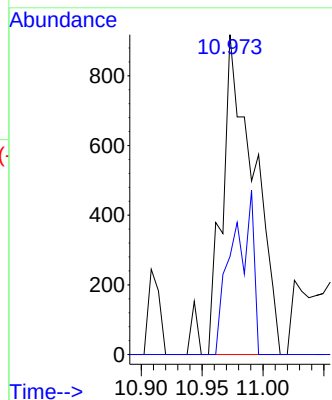
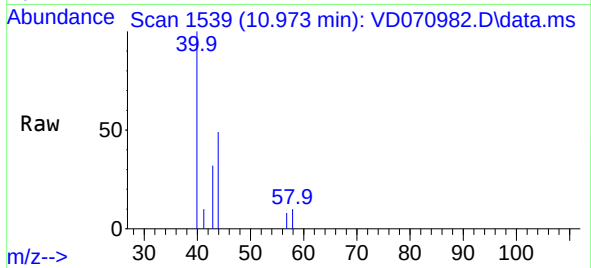




#59  
2-Hexanone  
Concen: 16.654 ug/l  
RT: 10.973 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

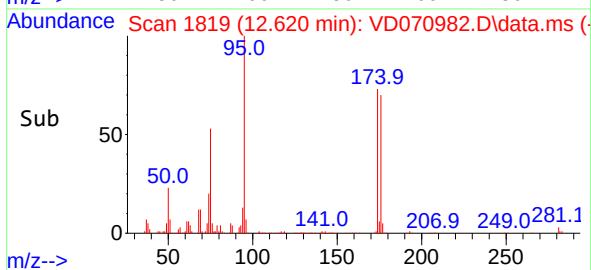
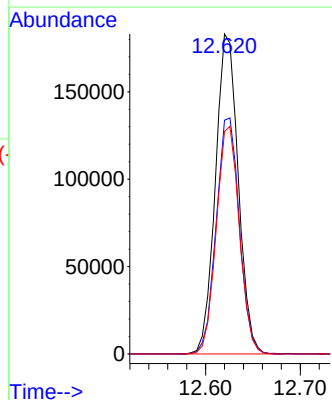
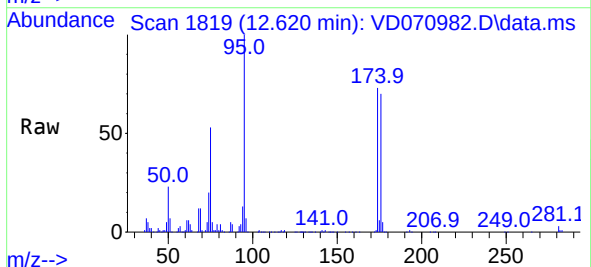
Instrument :  
MSVOA\_D  
ClientSampleId :

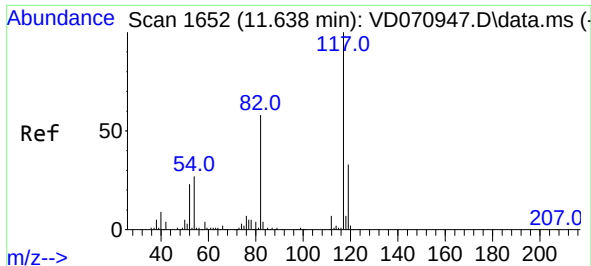
Tgt Ion: 43 Resp: 1689  
Ion Ratio Lower Upper  
43 100  
58 33.3 28.7 86.1



#62  
4-Bromofluorobenzene  
Concen: 57.409 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

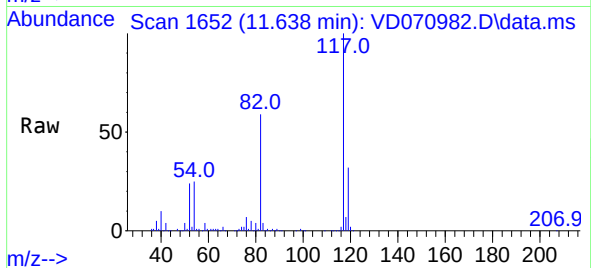
Tgt Ion: 95 Resp: 307292  
Ion Ratio Lower Upper  
95 100  
174 74.7 0.0 159.4  
176 71.4 0.0 154.0



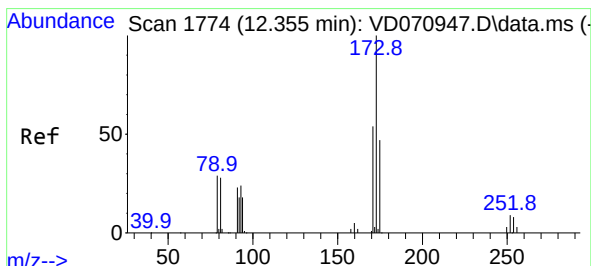
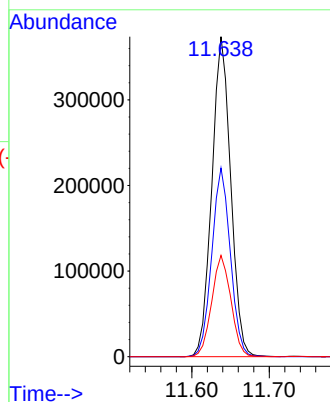
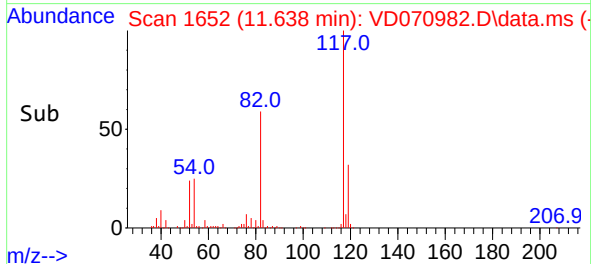


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Instrument :  
MSVOA\_D  
ClientSampleId :

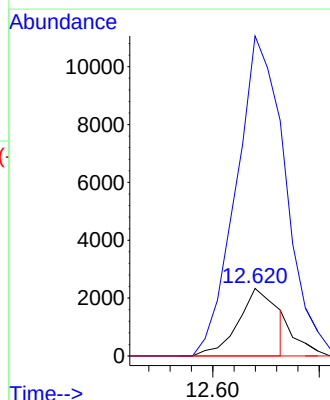
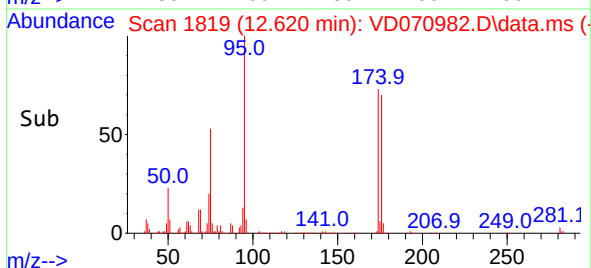
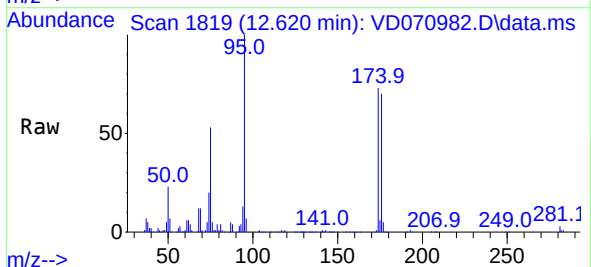


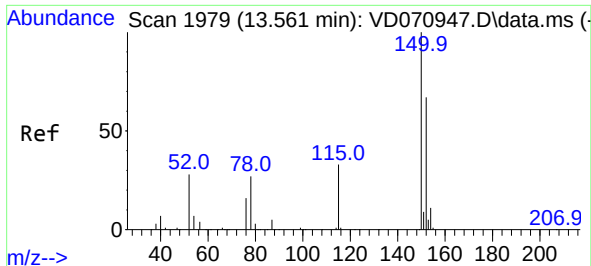
Tgt Ion:117 Resp: 632128  
Ion Ratio Lower Upper  
117 100  
82 59.0 44.7 67.1  
119 31.6 26.2 39.4



#71  
Bromoform  
Concen: 1.431 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.265 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

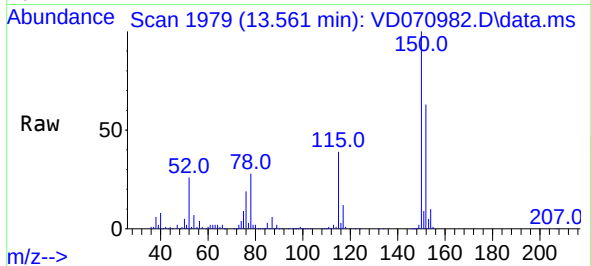
Tgt Ion:173 Resp: 2987  
Ion Ratio Lower Upper  
173 100  
175 515.3 24.1 72.2#  
254 0.0 0.1 0.1#



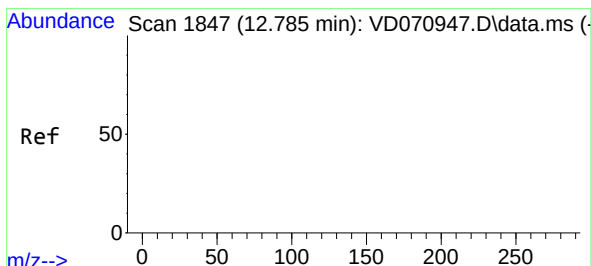
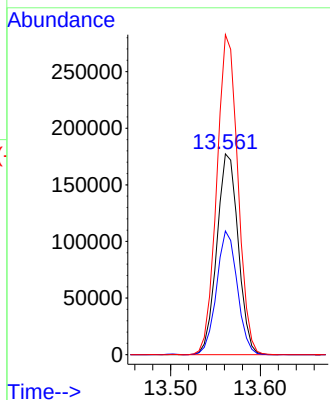
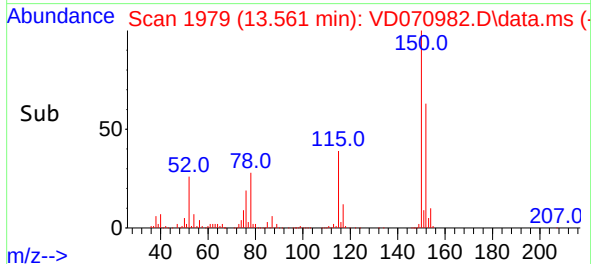


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

Instrument :  
MSVOA\_D  
ClientSampleId :

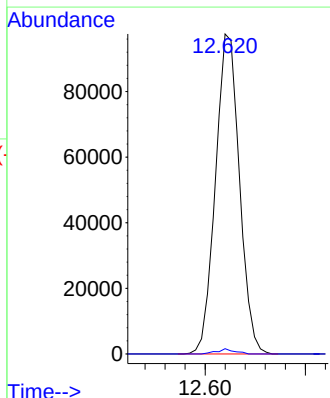
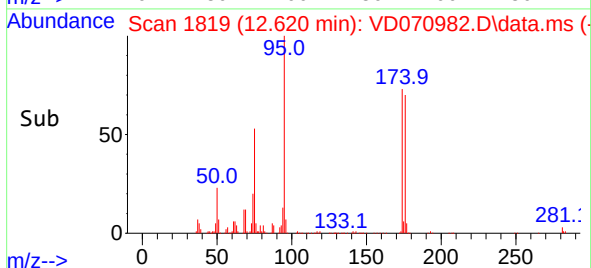
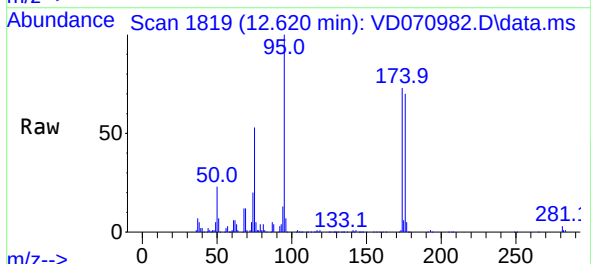


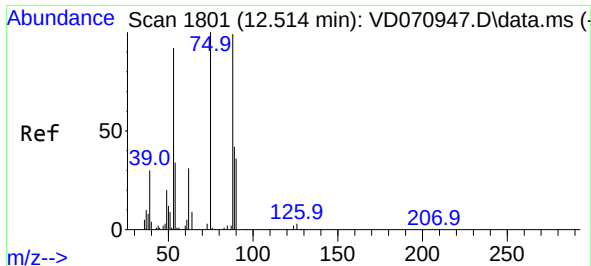
Tgt Ion:152 Resp: 293601  
Ion Ratio Lower Upper  
152 100  
115 59.9 29.8 89.3  
150 157.2 0.0 349.2



#76  
1,2,3-Trichloropropane  
Concen: 64.586 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.165 min  
Lab File: VD070982.D  
Acq: 11 Nov 2021 10:36

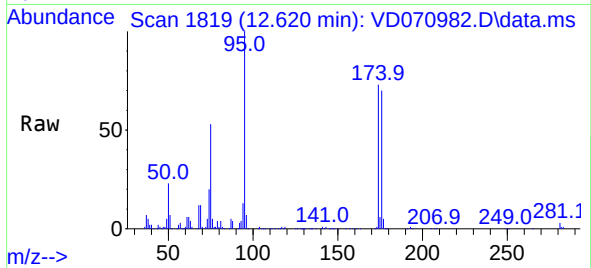
Tgt Ion: 75 Resp: 161978  
Ion Ratio Lower Upper  
75 100  
77 1.2 158.4 475.3#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 119.420 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. 0.106 min  
 Lab File: VD070982.D  
 Acq: 11 Nov 2021 10:36

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 161978

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 0.0   | 62.6  | 94.0# |
| 89  | 0.0   | 34.5  | 51.7# |

