

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121223\  
 Data File : VD077839.D  
 Acq On : 12 Dec 2023 13:57  
 Operator : JC/SY  
 Sample : 05699-01  
 Misc : 5.02G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 12 14:23:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 2023  
 Response via : Initial Calibration

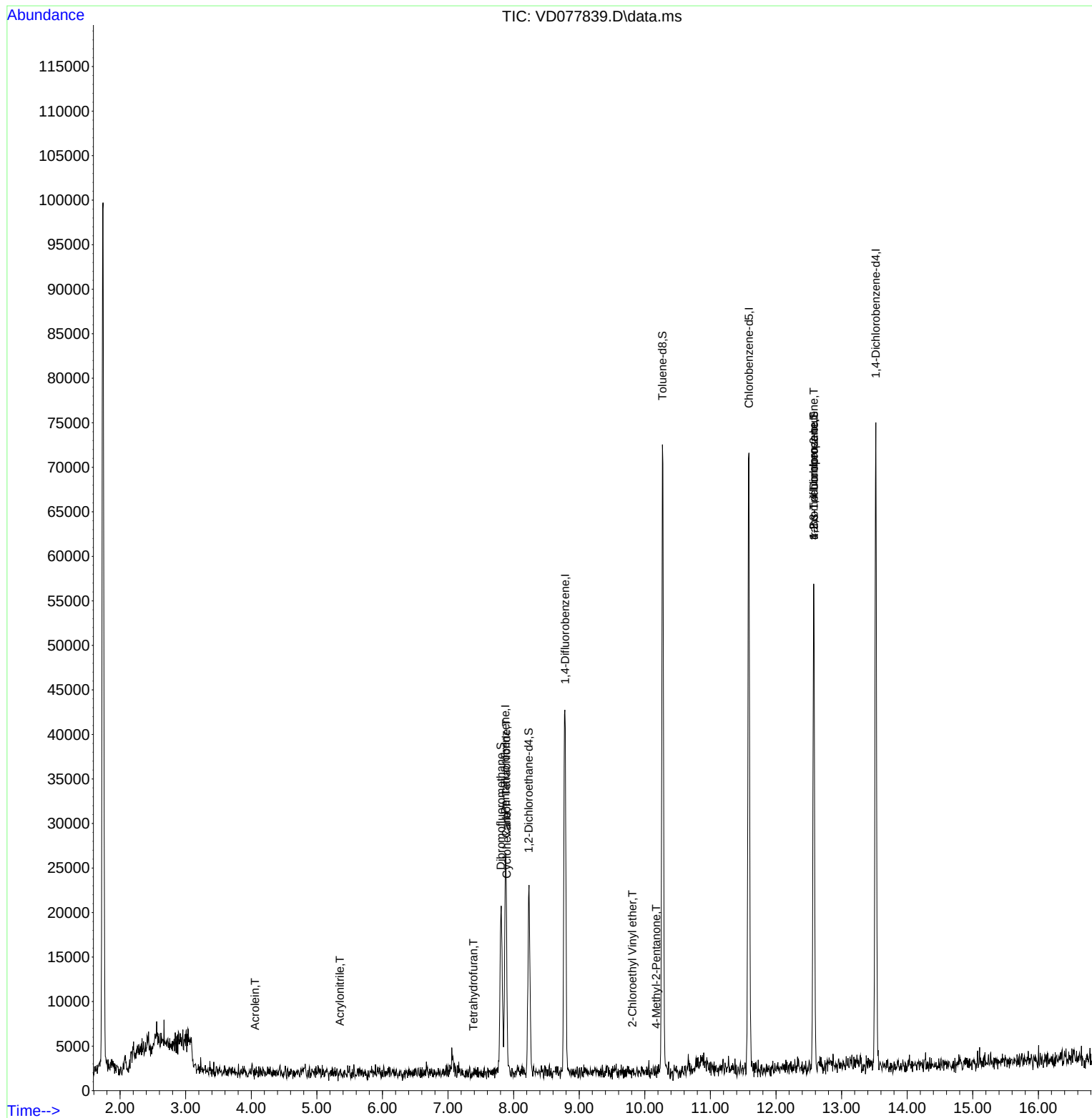
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 19436    | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.787  | 114   | 37519    | 50.000    | ug/l       | 0.01     |
| 63) Chlorobenzene-d5          | 11.587 | 117   | 41589    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 18797    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 15994    | 69.835    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 139.680% |          |
| 35) Dibromofluoromethane      | 7.805  | 113   | 13203    | 50.238    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 100.480% |          |
| 50) Toluene-d8                | 10.269 | 98    | 49377    | 46.910    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 93.820%  |          |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 16625    | 52.829    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 105.660% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 11) Tert butyl alcohol        | 5.099  | 59    | 76       | Below Cal | #          | 1        |
| 13) Acrolein                  | 4.058  | 56    | 58       | 2.394     | ug/l #     | 15       |
| 15) Acrylonitrile             | 5.352  | 53    | 75       | 1.508     | ug/l #     | 18       |
| 16) Acetone                   | 4.017  | 43    | 318      | Below Cal | #          | 32       |
| 20) Methylene Chloride        | 4.793  | 84    | 399      | Below Cal | #          | 17       |
| 25) 2-Butanone                | 7.075  | 43    | 59       | Below Cal | #          | 37       |
| 29) Tetrahydrofuran           | 7.387  | 42    | 57       | 1.563     | ug/l #     | 23       |
| 31) Cyclohexane               | 7.893  | 56    | 535      | 1.313     | ug/l #     | 11       |
| 38) Carbon Tetrachloride      | 7.887  | 117   | 1238     | 2.954     | ug/l #     | 11       |
| 51) 4-Methyl-2-Pentanone      | 10.175 | 43    | 150      | 1.009     | ug/l #     | 28       |
| 58) 2-Chloroethyl Vinyl ether | 9.810  | 63    | 222      | 2.104     | ug/l #     | 43       |
| 65) Chlorobenzene             | 11.604 | 112   | 149      | Below Cal | #          | 43       |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 8850     | 54.210    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 8850     | 109.834   | ug/l #     | 18       |
| -----                         |        |       |          |           |            |          |

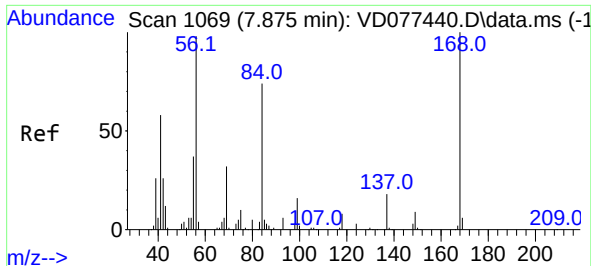
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Dec 12 14:23:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 08 13:33:18 2023  
Response via : Initial Calibration

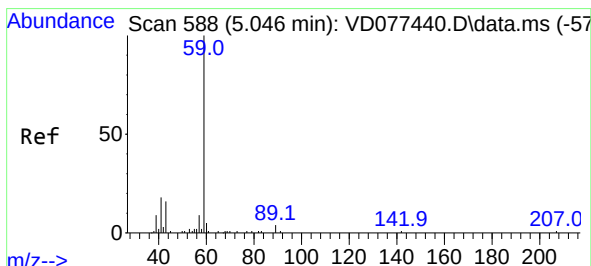
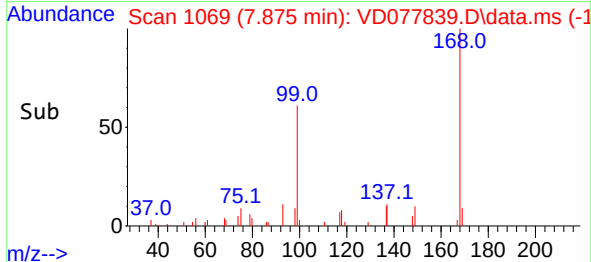
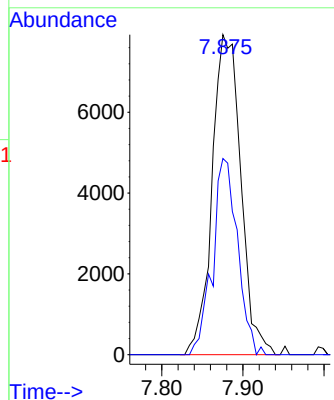
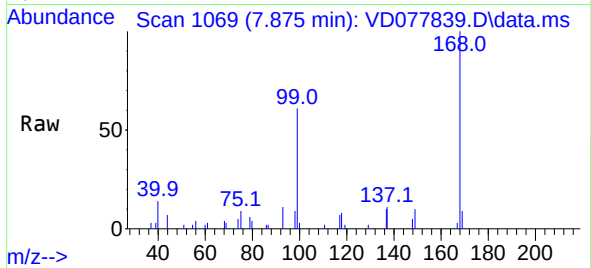




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

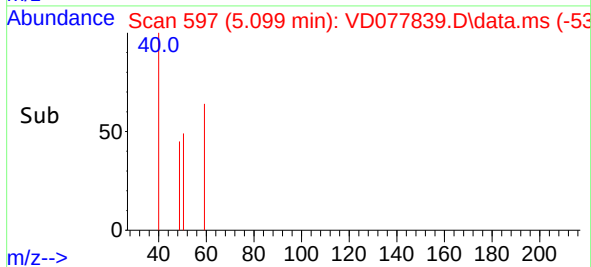
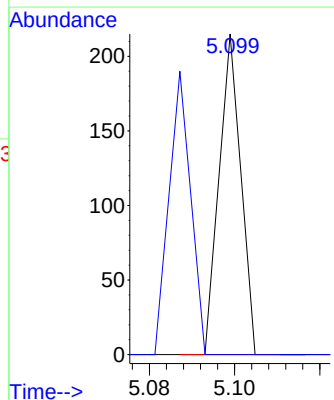
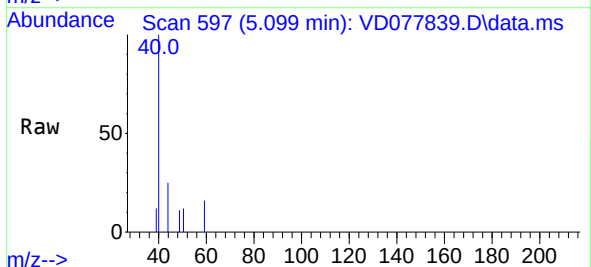
Instrument :  
MSVOA\_D  
ClientSampleId :

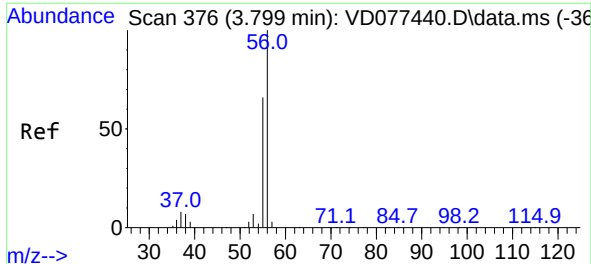
Tgt Ion:168 Resp: 19436  
Ion Ratio Lower Upper  
168 100  
99 61.3 36.7 55.1#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.099 min Scan# 597  
Delta R.T. 0.053 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion: 59 Resp: 76  
Ion Ratio Lower Upper  
59 100  
57 88.2 7.8 11.8#





#13

Acrolein

Concen: 2.394 ug/l

RT: 4.058 min Scan# 41

Delta R.T. 0.259 min

Lab File: VD077839.D

Acq: 12 Dec 2023 13:57

Instrument :

MSVOA\_D

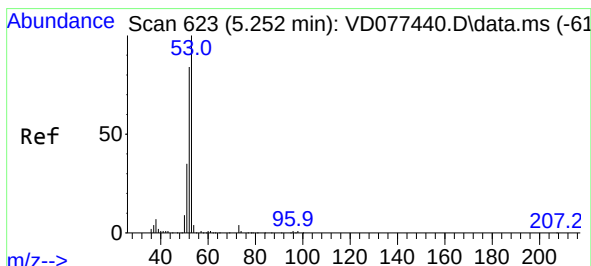
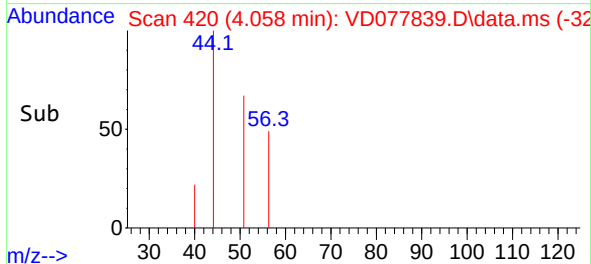
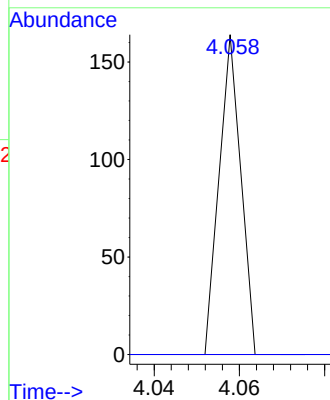
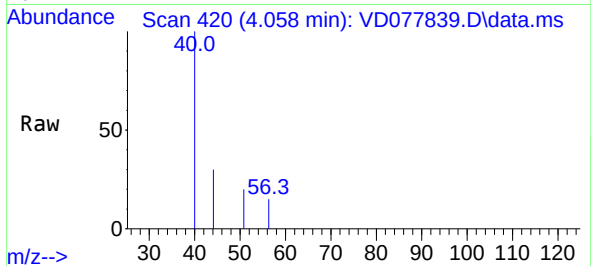
ClientSampleId :

Tgt Ion: 56 Resp: 58

Ion Ratio Lower Upper

56 100

55 0.0 55.1 82.7#



#15

Acrylonitrile

Concen: 1.508 ug/l

RT: 5.352 min Scan# 640

Delta R.T. 0.100 min

Lab File: VD077839.D

Acq: 12 Dec 2023 13:57

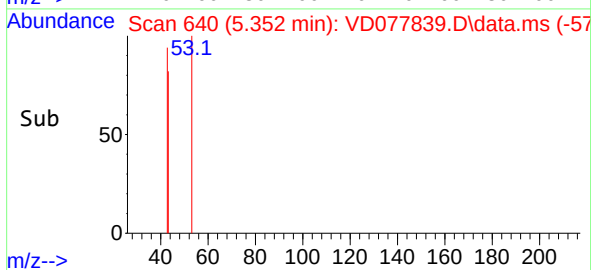
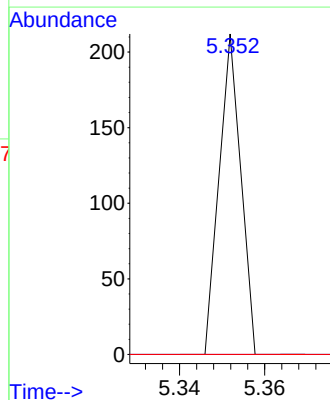
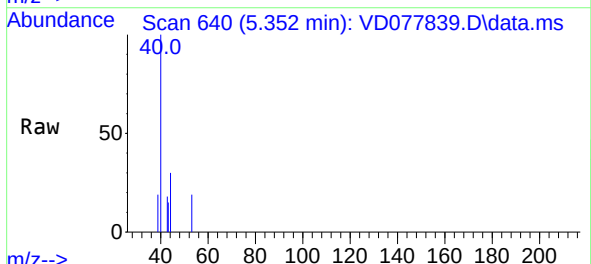
Tgt Ion: 53 Resp: 75

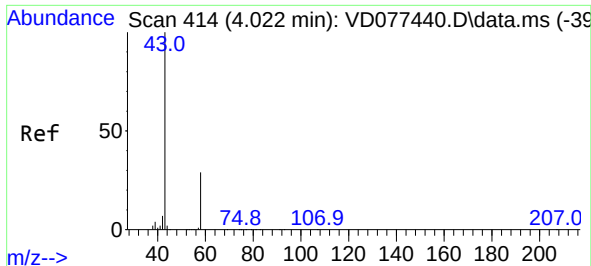
Ion Ratio Lower Upper

53 100

52 0.0 65.0 97.4#

51 0.0 28.3 42.5#

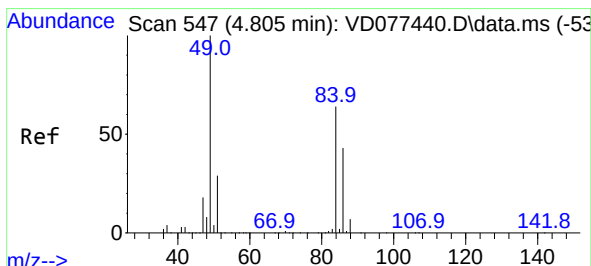
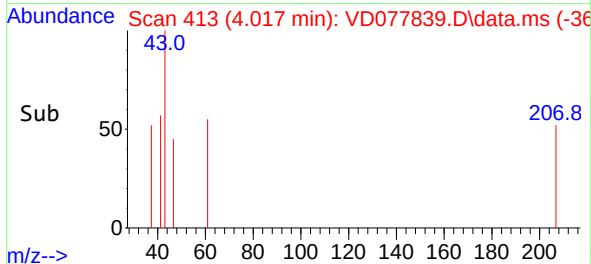
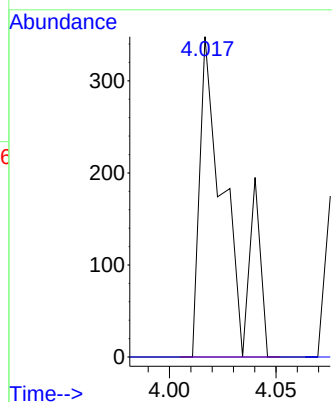
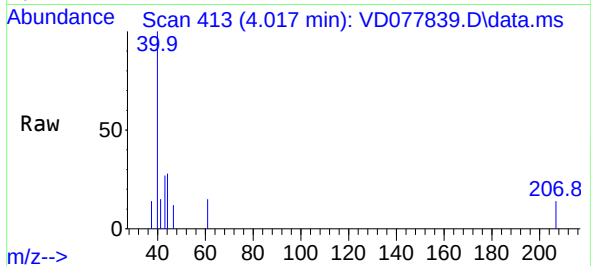




#16  
Acetone  
Concen: Below Cal  
RT: 4.017 min Scan# 41  
Delta R.T. -0.005 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

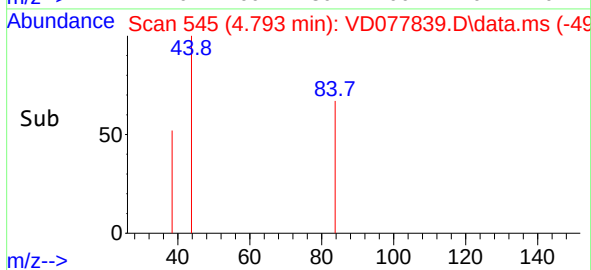
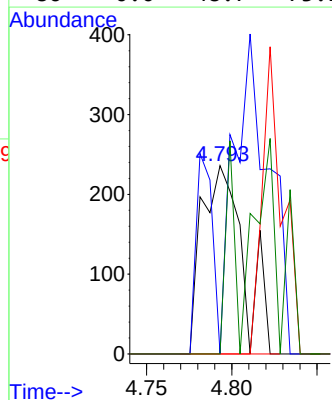
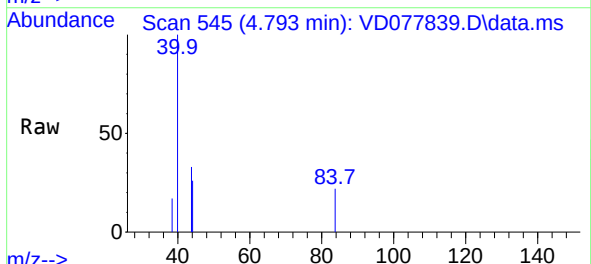
Instrument :  
MSVOA\_D  
ClientSampleId :

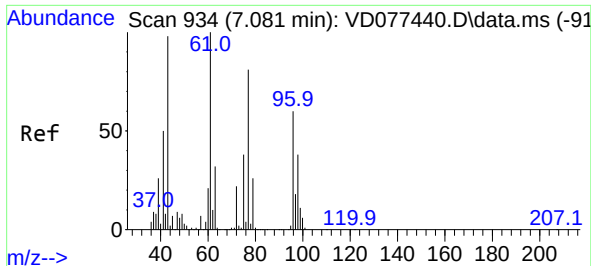
Tgt Ion: 43 Resp: 318  
Ion Ratio Lower Upper  
43 100  
58 0.0 34.7 52.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.793 min Scan# 545  
Delta R.T. -0.012 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

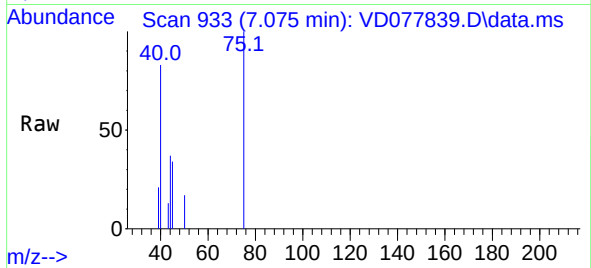
Tgt Ion: 84 Resp: 399  
Ion Ratio Lower Upper  
84 100  
49 0.0 71.4 107.2#  
51 0.0 24.5 36.7#  
86 0.0 48.7 73.1#



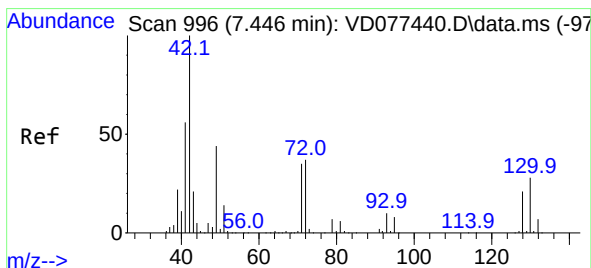
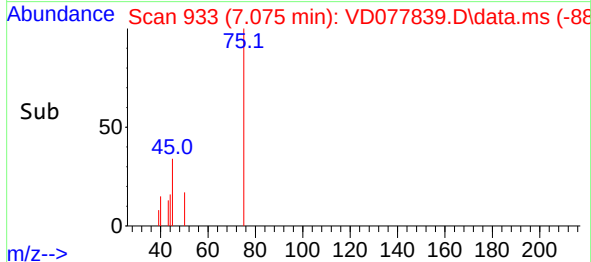
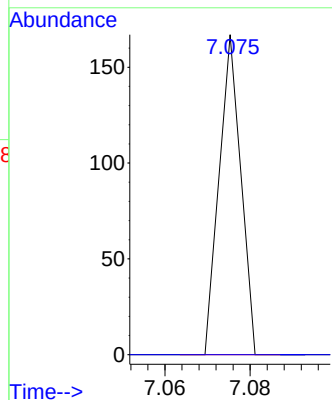


#25  
2-Butanone  
Concen: Below Cal  
RT: 7.075 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Instrument :  
MSVOA\_D  
ClientSampleId :

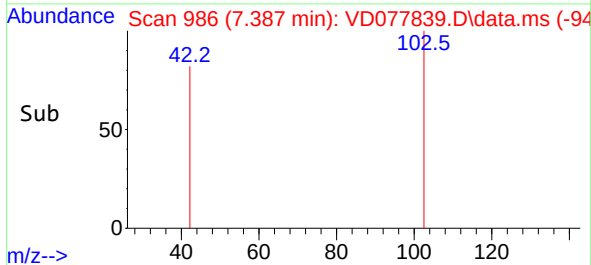
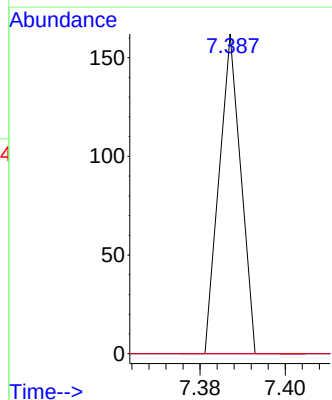
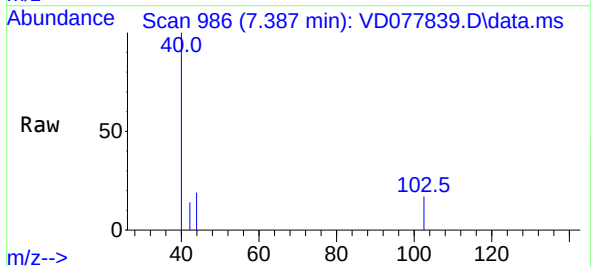


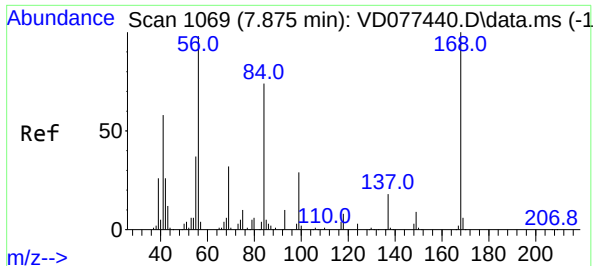
Tgt Ion: 43 Resp: 59  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.7 46.1#



#29  
Tetrahydrofuran  
Concen: 1.563 ug/l  
RT: 7.387 min Scan# 986  
Delta R.T. -0.059 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

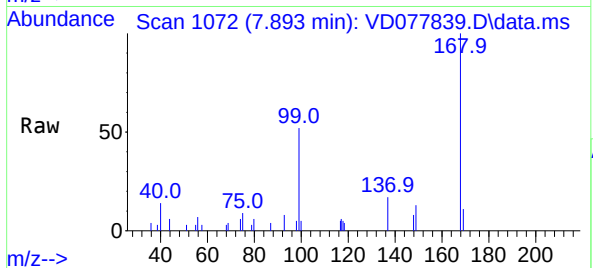
Tgt Ion: 42 Resp: 57  
Ion Ratio Lower Upper  
42 100  
72 0.0 46.5 69.7#  
71 0.0 44.5 66.7#



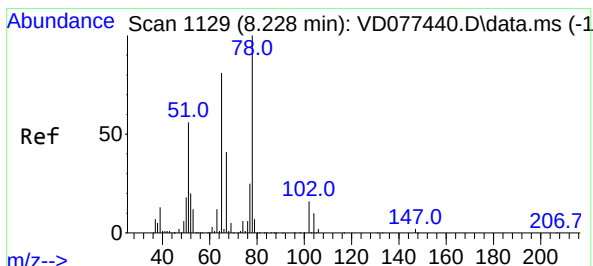
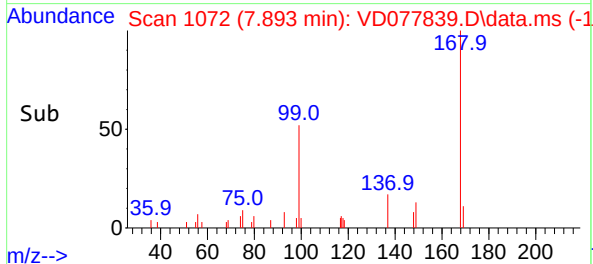
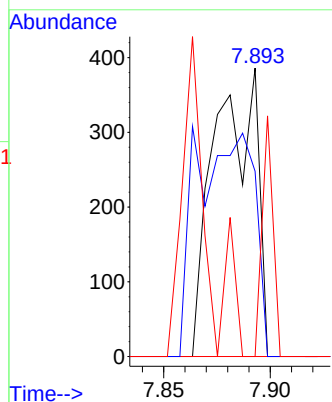


#31  
Cyclohexane  
Concen: 1.313 ug/l  
RT: 7.893 min Scan# 1069  
Delta R.T. 0.018 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Instrument :  
MSVOA\_D  
ClientSampleId :

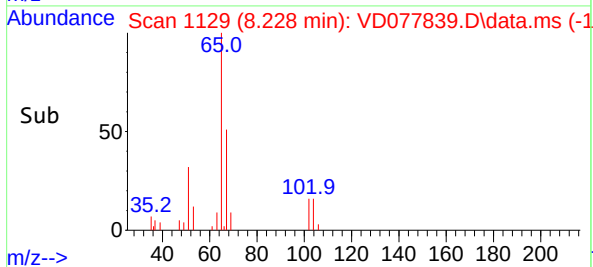
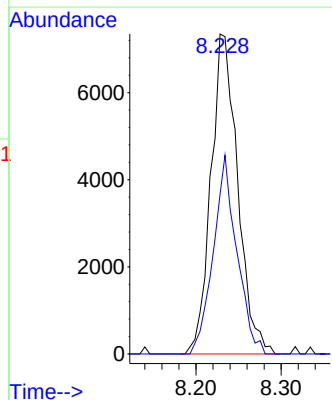
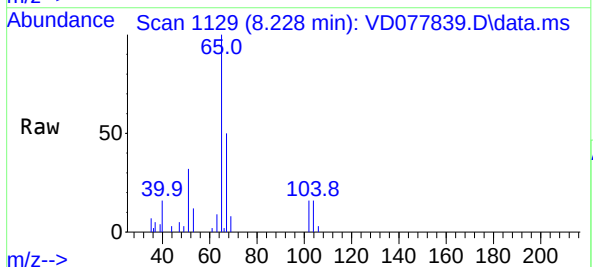


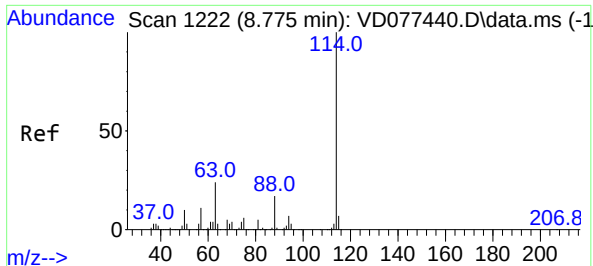
Tgt Ion: 56 Resp: 535  
Ion Ratio Lower Upper  
56 100  
69 64.2 28.6 43.0#  
84 0.0 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 69.835 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion: 65 Resp: 15994  
Ion Ratio Lower Upper  
65 100  
67 54.8 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.787 min Scan# 114

Delta R.T. 0.012 min

Lab File: VD077839.D

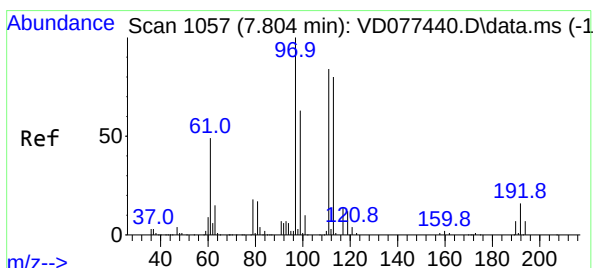
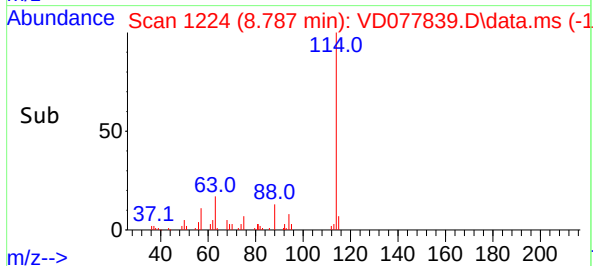
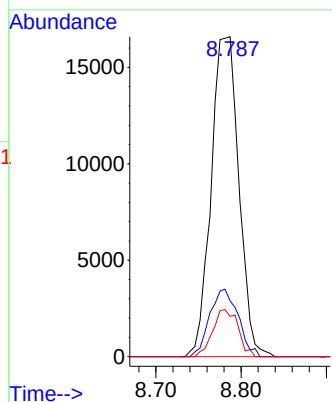
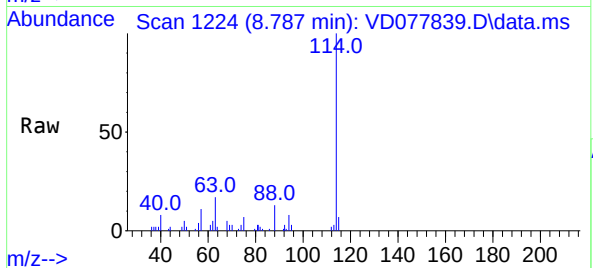
Acq: 12 Dec 2023 13:57

Instrument :

MSVOA\_D

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 37519 |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 17.4  | 0.0   | 33.4  |
| 88       | 12.6  | 0.0   | 26.2  |



#35

Dibromofluoromethane

Concen: 50.238 ug/l

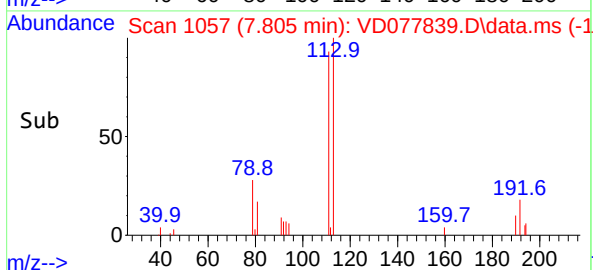
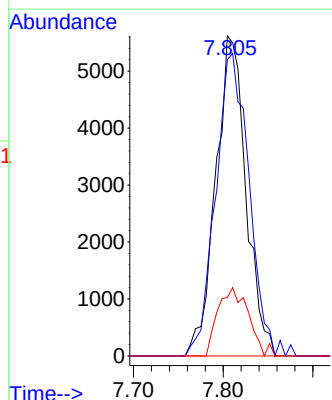
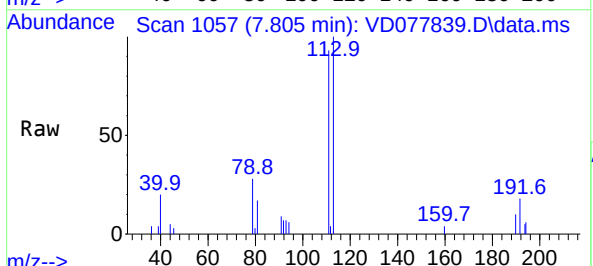
RT: 7.805 min Scan# 1057

Delta R.T. 0.001 min

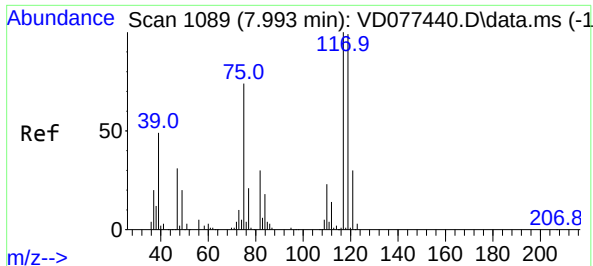
Lab File: VD077839.D

Acq: 12 Dec 2023 13:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 13203 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 104.3 | 84.7  | 127.1 |
| 192      | 21.5  | 16.8  | 25.2  |

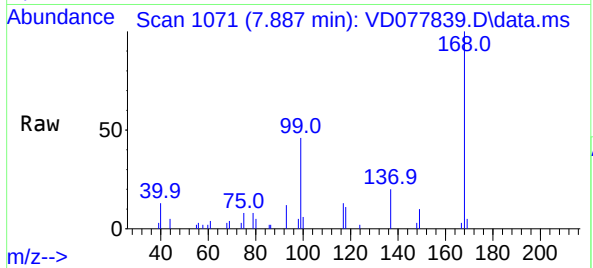




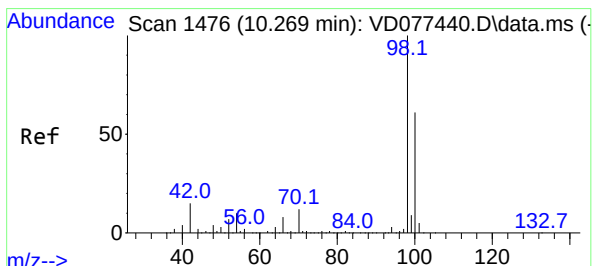
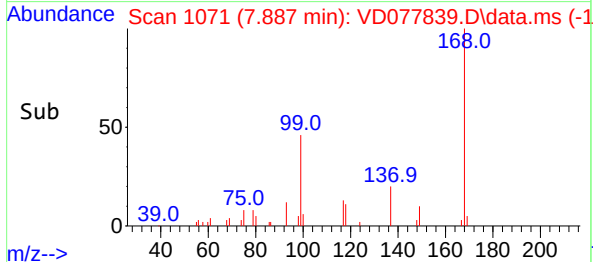
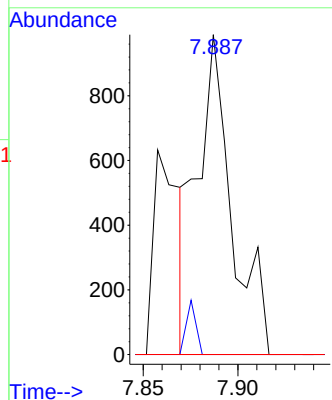


#38  
Carbon Tetrachloride  
Concen: 2.954 ug/l  
RT: 7.887 min Scan# 1089  
Delta R.T. -0.106 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Instrument :  
MSVOA\_D  
ClientSampleId :

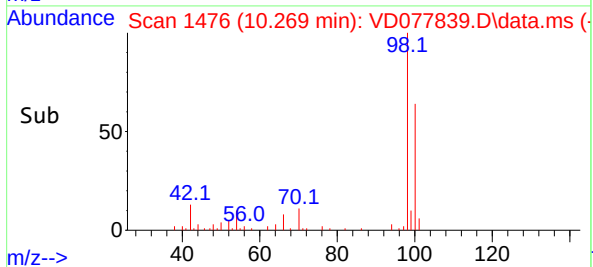
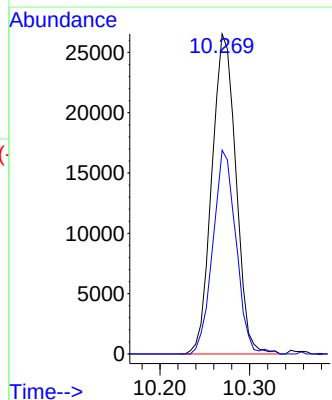
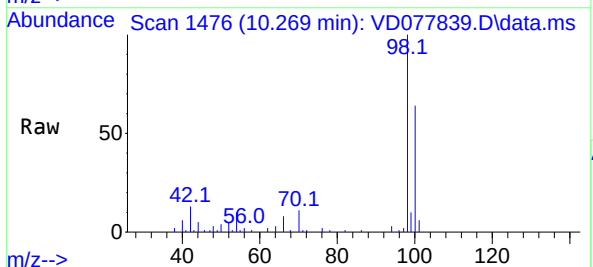


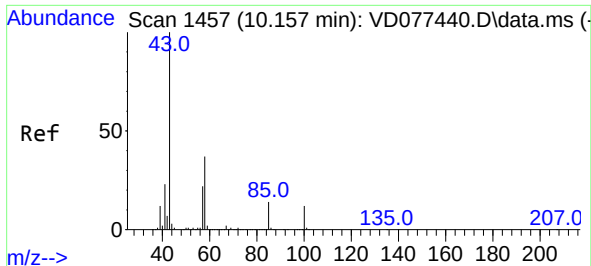
Tgt Ion:117 Resp: 1238  
Ion Ratio Lower Upper  
117 100  
119 0.0 78.0 117.0#  
121 0.0 24.2 36.2#



#50  
Toluene-d8  
Concen: 46.910 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion: 98 Resp: 49377  
Ion Ratio Lower Upper  
98 100  
100 61.4 50.3 75.5

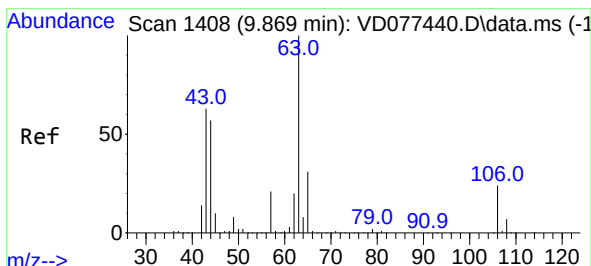
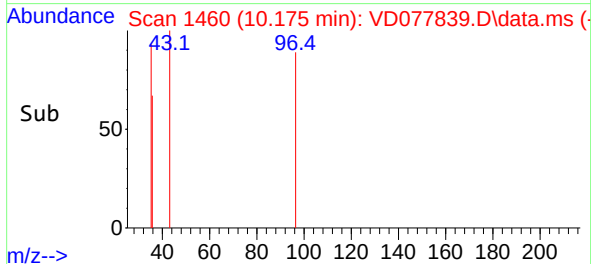
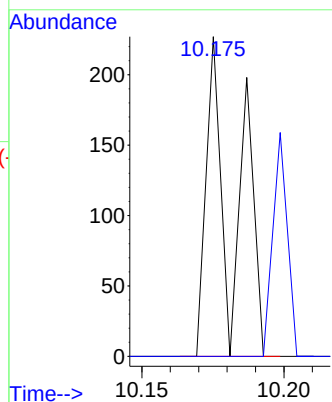
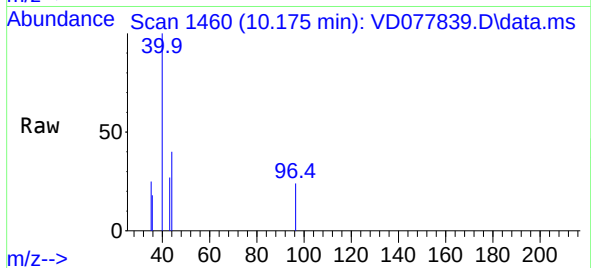




#51  
4-Methyl-2-Pentanone  
Concen: 1.009 ug/l  
RT: 10.175 min Scan# 1457  
Delta R.T. 0.018 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

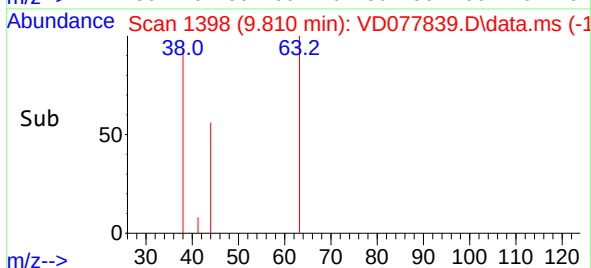
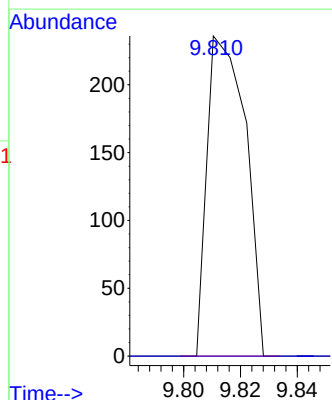
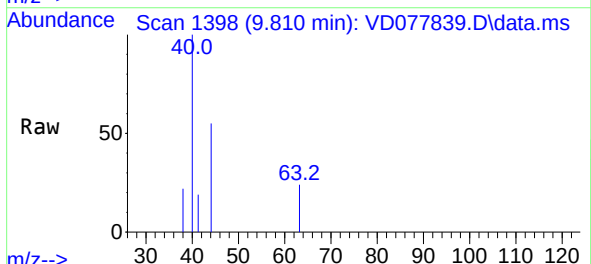
Instrument :  
MSVOA\_D  
ClientSampleId :

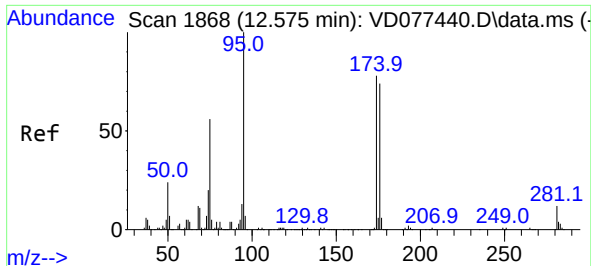
Tgt Ion: 43 Resp: 150  
Ion Ratio Lower Upper  
43 100  
58 0.0 38.9 58.3#



#58  
2-Chloroethyl Vinyl ether  
Concen: 2.104 ug/l  
RT: 9.810 min Scan# 1398  
Delta R.T. -0.059 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion: 63 Resp: 222  
Ion Ratio Lower Upper  
63 100  
106 0.0 25.3 37.9#

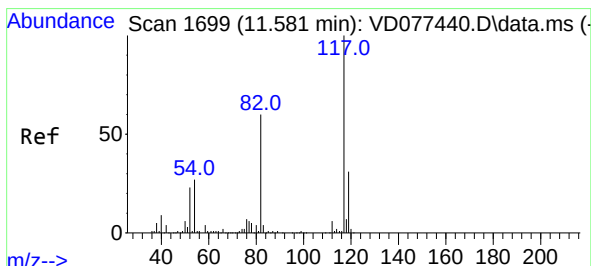
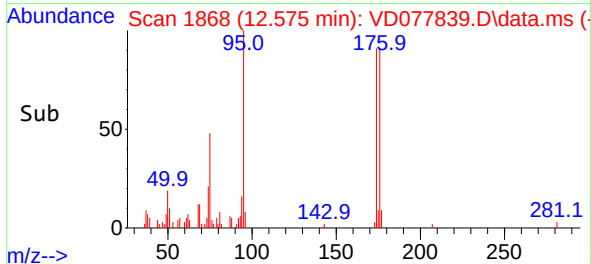
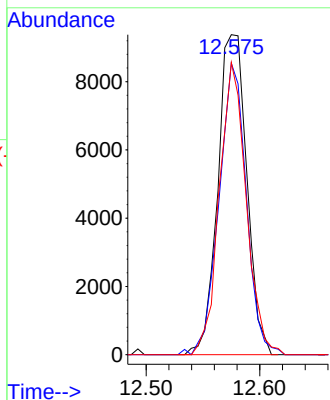
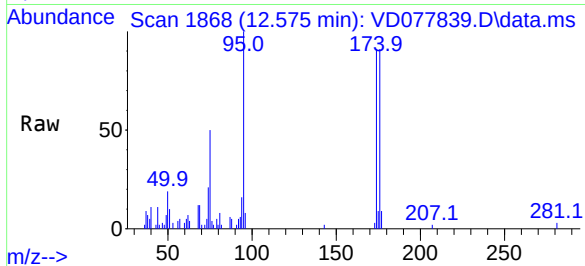




#62  
4-Bromofluorobenzene  
Concen: 52.829 ug/l  
RT: 12.575 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

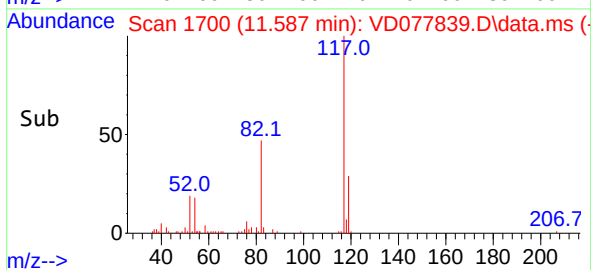
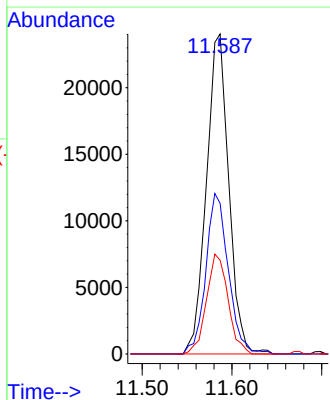
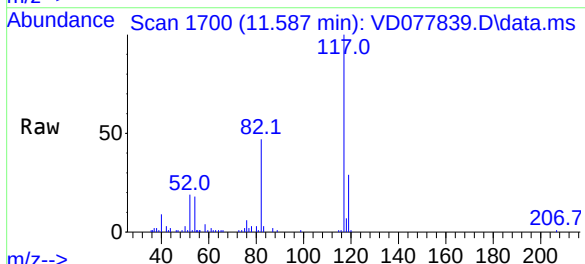
Instrument :  
MSVOA\_D  
ClientSampleId :

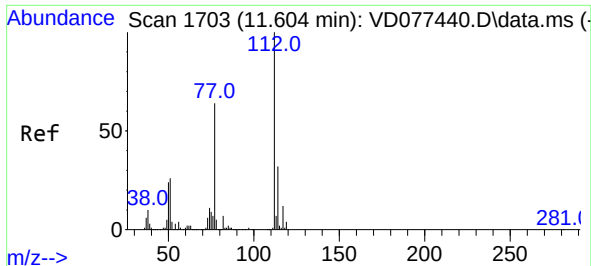
Tgt Ion: 95 Resp: 16625  
Ion Ratio Lower Upper  
95 100  
174 85.7 0.0 201.8  
176 84.5 0.0 191.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.587 min Scan# 1700  
Delta R.T. 0.006 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion: 117 Resp: 41589  
Ion Ratio Lower Upper  
117 100  
82 47.1 38.3 57.5  
119 29.3 25.0 37.4

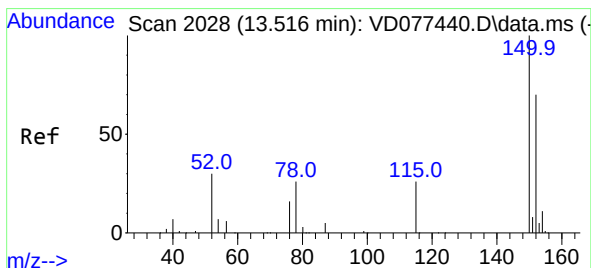
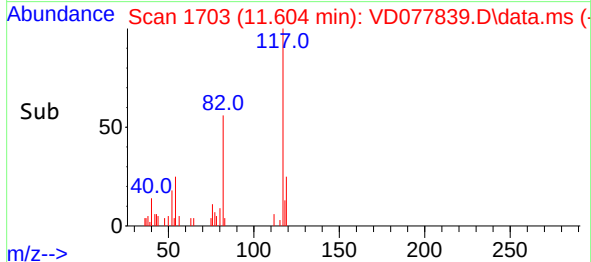
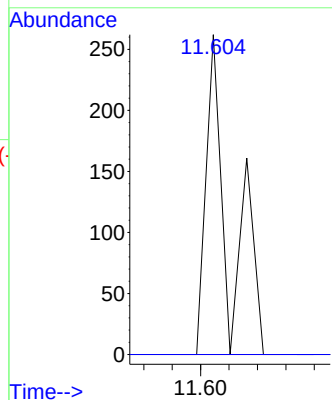
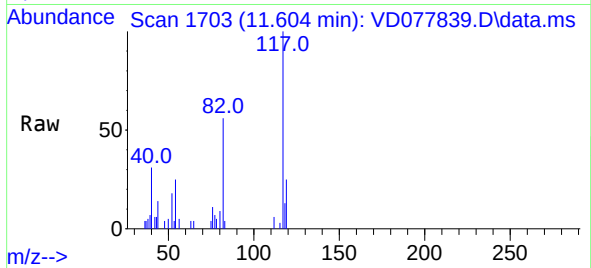




#65  
Chlorobenzene  
Concen: Below Cal  
RT: 11.604 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

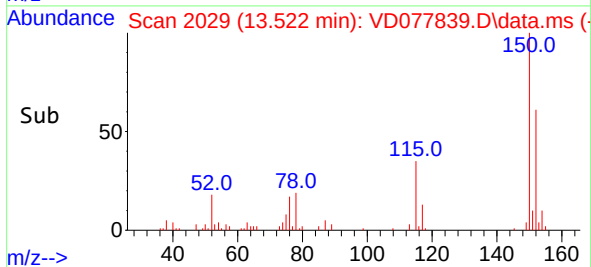
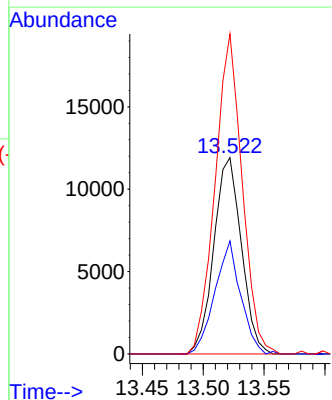
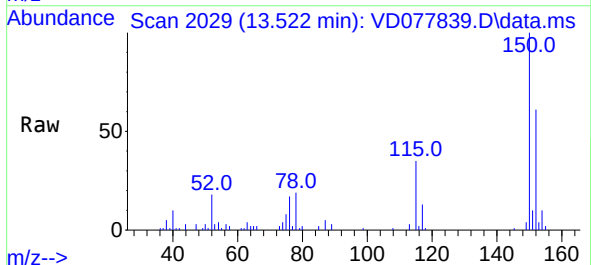
Instrument :  
MSVOA\_D  
ClientSampleId :

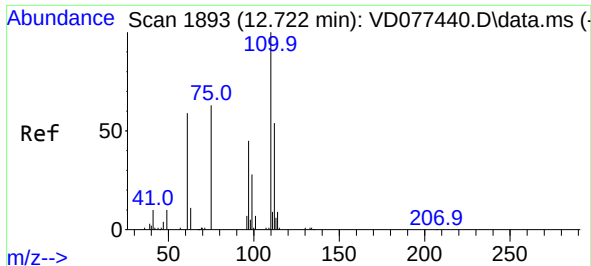
Tgt Ion:112 Resp: 149  
Ion Ratio Lower Upper  
112 100  
114 0.0 25.1 37.7#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion:152 Resp: 18797  
Ion Ratio Lower Upper  
152 100  
115 53.9 27.1 81.3  
150 159.9 0.0 353.6

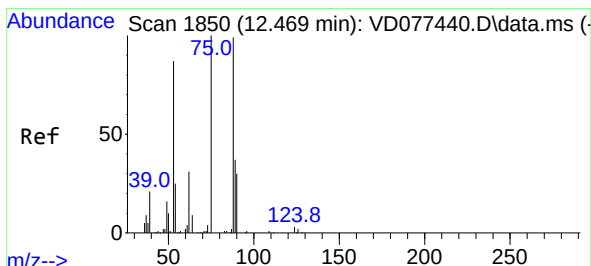
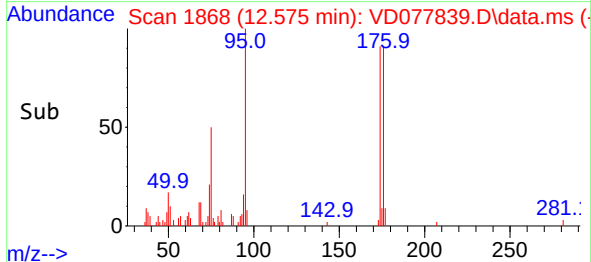
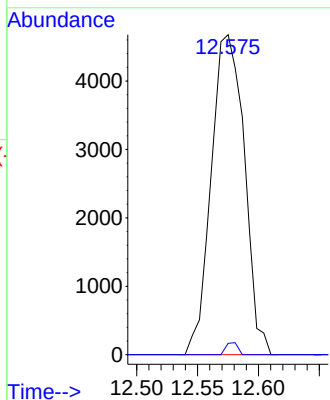
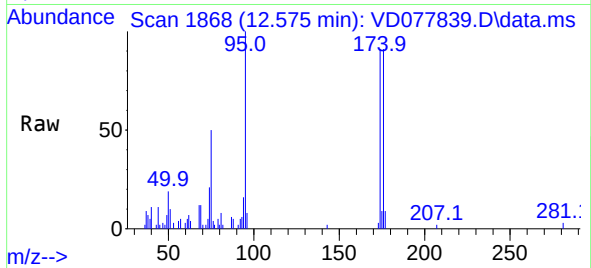




#76  
1,2,3-Trichloropropane  
Concen: 54.210 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 8850  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 109.834 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD077839.D  
Acq: 12 Dec 2023 13:57

Tgt Ion: 75 Resp: 8850  
Ion Ratio Lower Upper  
75 100  
53 1.1 63.0 94.4#  
89 0.0 37.9 56.9#

