

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022222\  
 Data File : VD072055.D  
 Acq On : 22 Feb 2022 14:11  
 Operator : VA/SY  
 Sample : N1626-03RE  
 Misc : 5.17G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 23 05:30:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

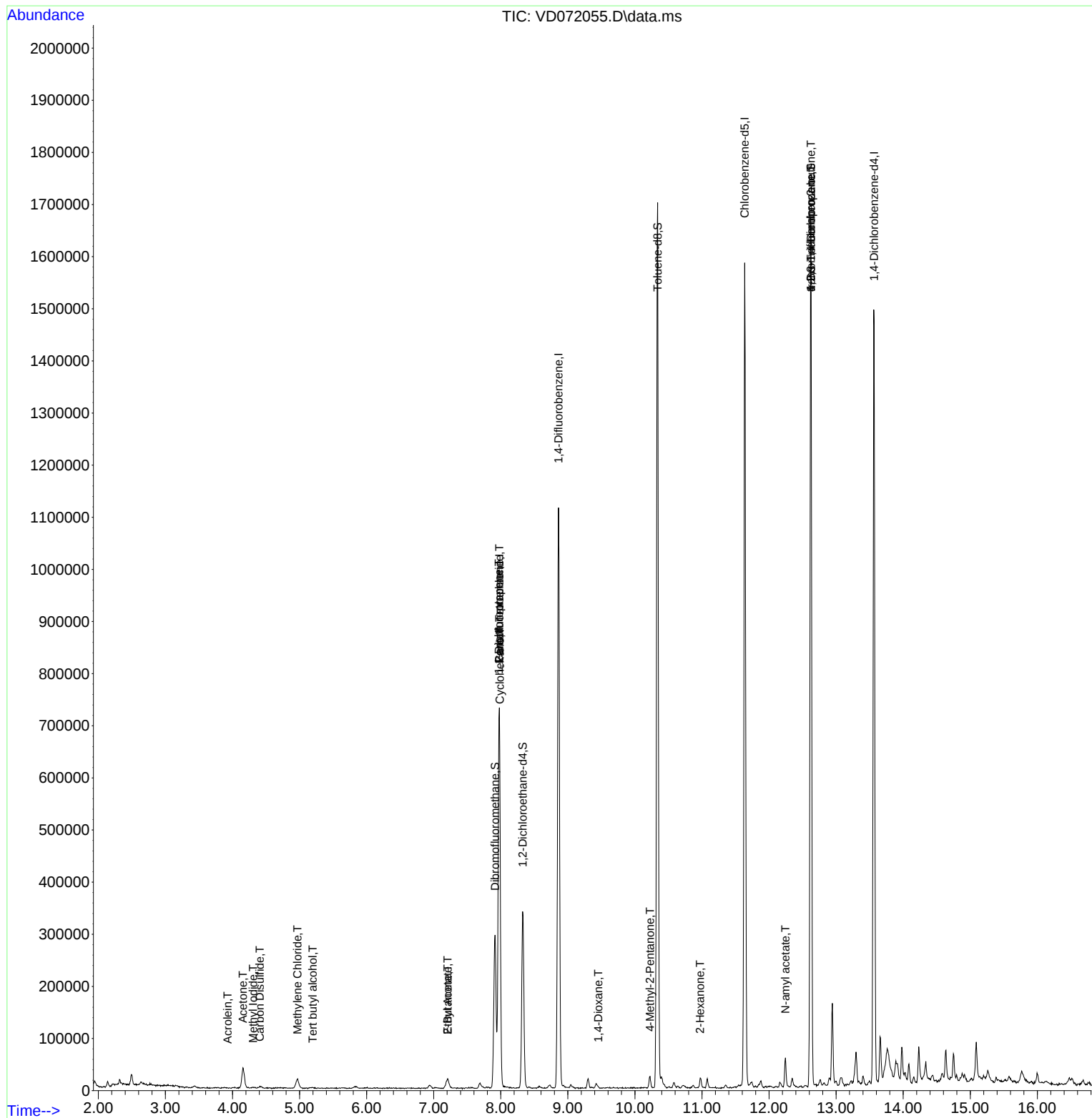
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 545514   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 942854   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 888289   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 404169   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 269629   | 47.650    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 95.300%  |
| 35) Dibromofluoromethane      | 7.914  | 113   | 216832   | 37.958    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 75.920%  |
| 50) Toluene-d8                | 10.338 | 98    | 1152802  | 54.418    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 108.840% |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 420385   | 54.023    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 108.040% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.785  | 94    | 815      | Below Cal | #      | 65       |
| 10) Methyl Iodide             | 4.309  | 142   | 1938     | 3.219     | ug/l # | 81       |
| 11) Tert butyl alcohol        | 5.197  | 59    | 859      | 2.661     | ug/l # | 80       |
| 13) Acrolein                  | 3.926  | 56    | 788      | 1.238     | ug/l # | 52       |
| 16) Acetone                   | 4.156  | 43    | 68453    | 55.975    | ug/l   | 95       |
| 17) Carbon Disulfide          | 4.409  | 76    | 5077     | 1.022     | ug/l # | 76       |
| 18) Methyl Acetate            | 4.708  | 43    | 241      | Below Cal | #      | 52       |
| 20) Methylene Chloride        | 4.967  | 84    | 12919    | 2.123     | ug/l # | 93       |
| 25) 2-Butanone                | 7.208  | 43    | 24236    | 14.339    | ug/l   | 99       |
| 31) Cyclohexane               | 7.985  | 56    | 11592    | 1.160     | ug/l # | 3        |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 44214    | 5.110     | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.208  | 43    | 24236    | 6.040     | ug/l # | 74       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 55705    | 6.281     | ug/l # | 18       |
| 49) 1,4-Dioxane               | 9.455  | 88    | 86       | 2.109     | ug/l # | 20       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43    | 15302    | 3.864     | ug/l   | 97       |
| 59) 2-Hexanone                | 10.973 | 43    | 15284    | 5.658     | ug/l   | 80       |
| 74) N-amyl acetate            | 12.243 | 43    | 33279    | 4.966     | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 219291   | 57.280    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 219291   | 143.442   | ug/l # | 10       |
| -----                         |        |       |          |           |        |          |

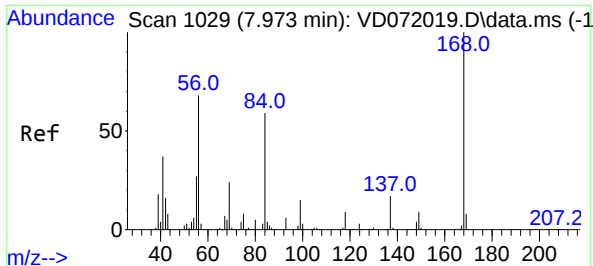
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Feb 19 04:05:38 2022  
Response via : Initial Calibration

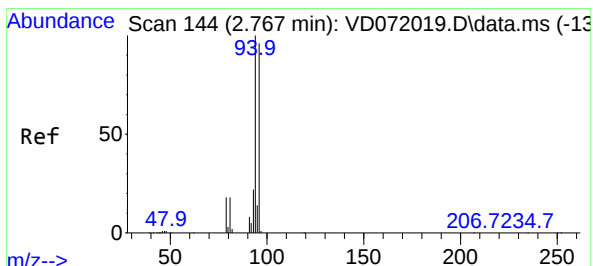
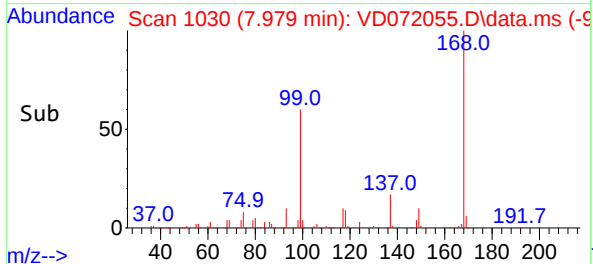
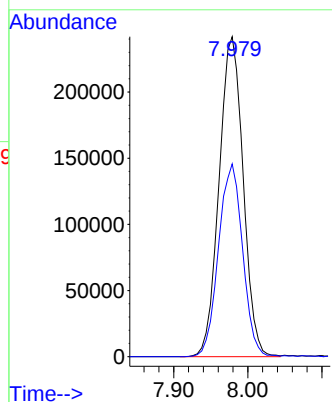
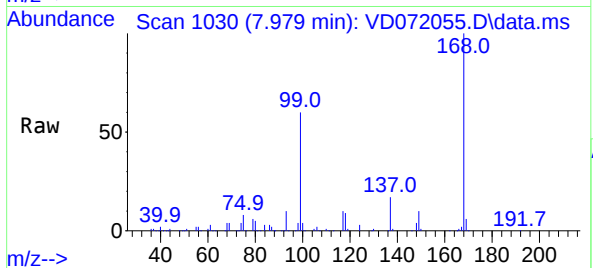




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

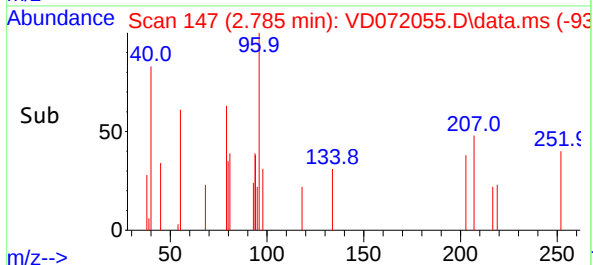
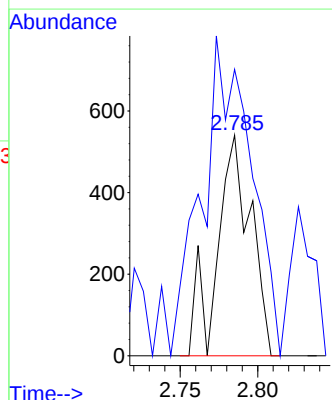
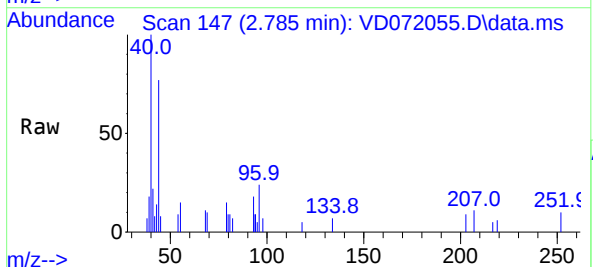
Instrument :  
MSVOA\_D  
ClientSampleId :

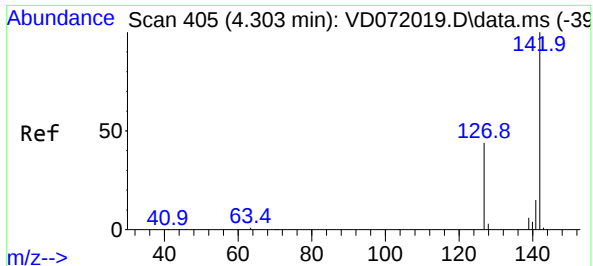
Tgt Ion:168 Resp: 545514  
Ion Ratio Lower Upper  
168 100  
99 60.2 47.1 70.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.785 min Scan# 147  
Delta R.T. 0.018 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

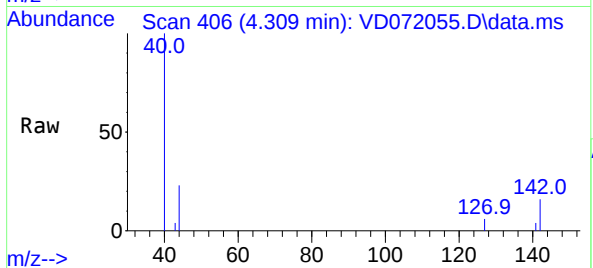
Tgt Ion: 94 Resp: 815  
Ion Ratio Lower Upper  
94 100  
96 129.8 76.8 115.2#



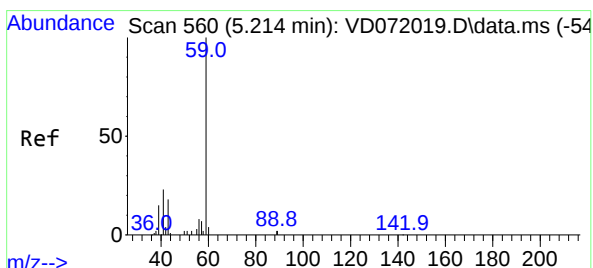
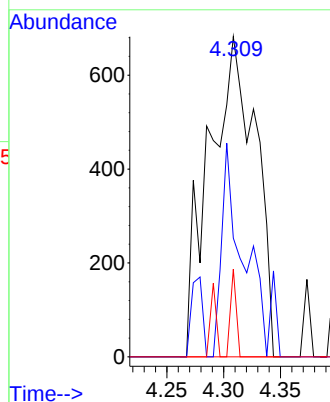
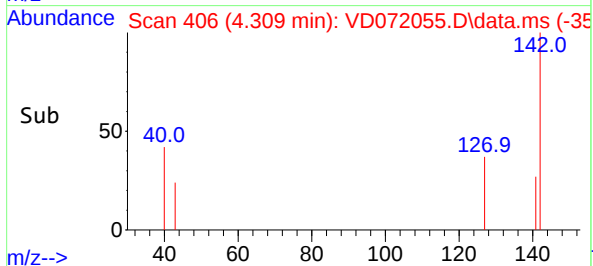


#10  
Methyl Iodide  
Concen: 3.219 ug/l  
RT: 4.309 min Scan# 405  
Delta R.T. 0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

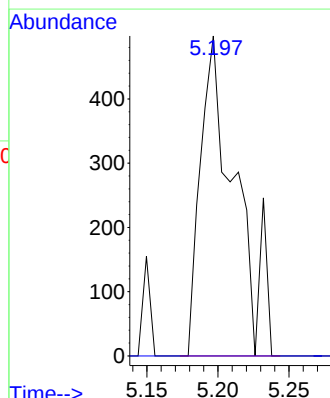
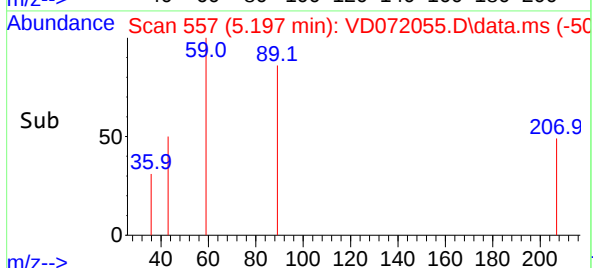
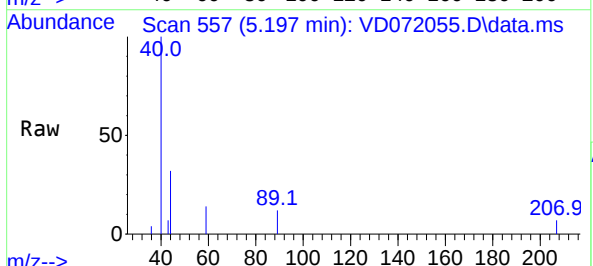


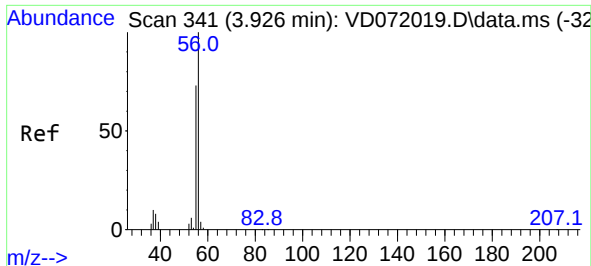
Tgt Ion:142 Resp: 1938  
Ion Ratio Lower Upper  
142 100  
127 34.0 35.8 53.8#  
141 3.4 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 2.661 ug/l  
RT: 5.197 min Scan# 557  
Delta R.T. -0.018 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

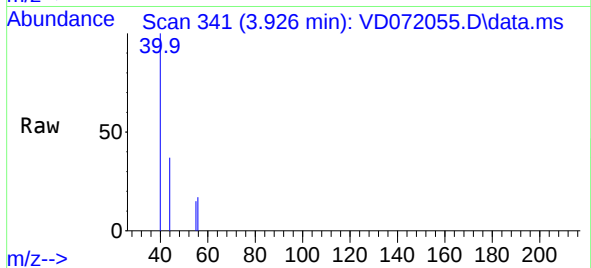
Tgt Ion: 59 Resp: 859  
Ion Ratio Lower Upper  
59 100  
57 0.0 5.4 8.2#



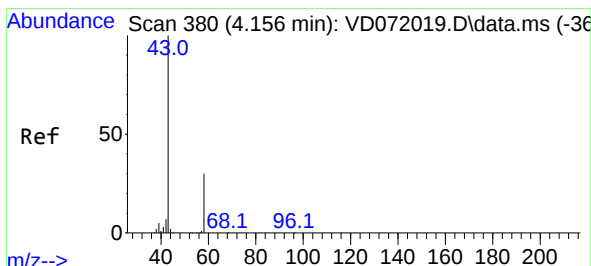
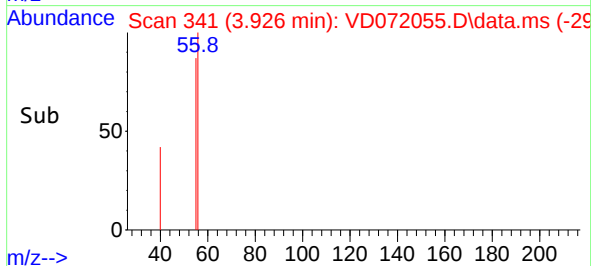
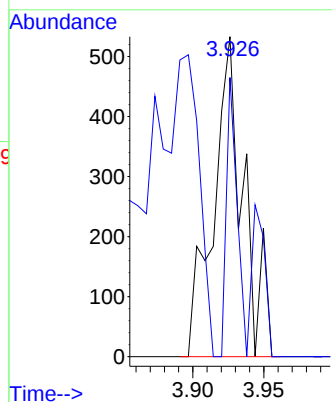


#13  
Acrolein  
Concen: 1.238 ug/l  
RT: 3.926 min Scan# 341  
Delta R.T. -0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

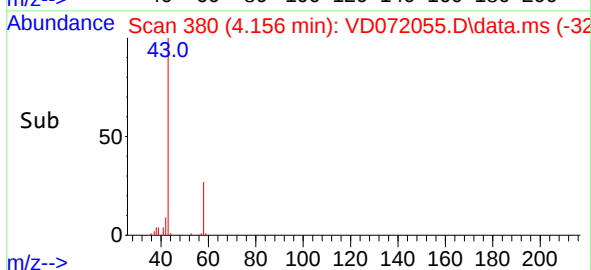
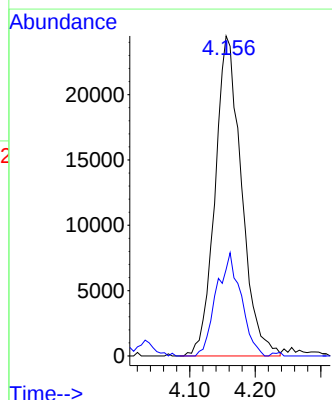
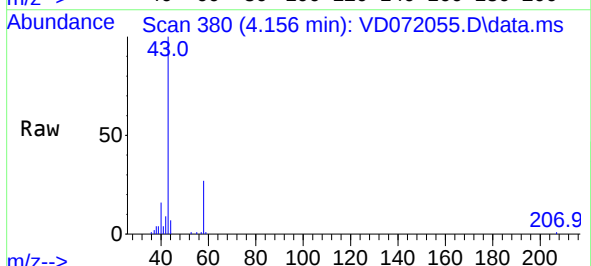


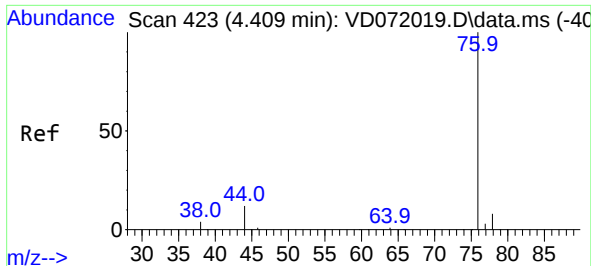
Tgt Ion: 56 Resp: 788  
Ion Ratio Lower Upper  
56 100  
55 30.3 55.8 83.6#



#16  
Acetone  
Concen: 55.975 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

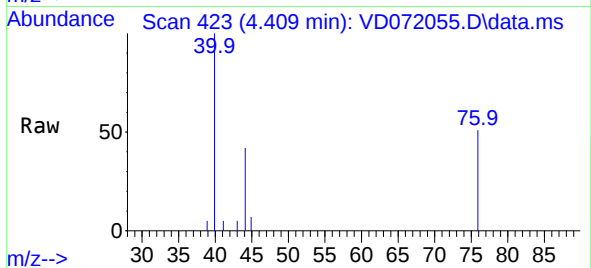
Tgt Ion: 43 Resp: 68453  
Ion Ratio Lower Upper  
43 100  
58 27.1 23.8 35.6



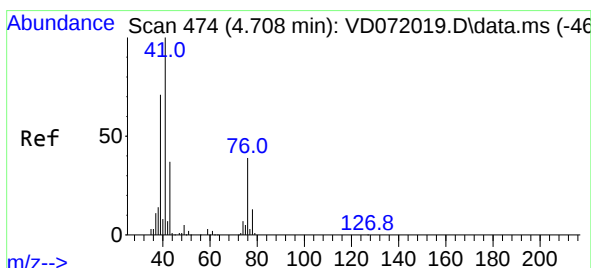
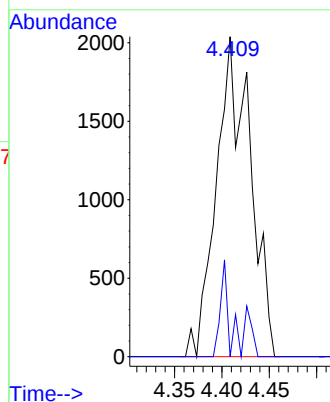
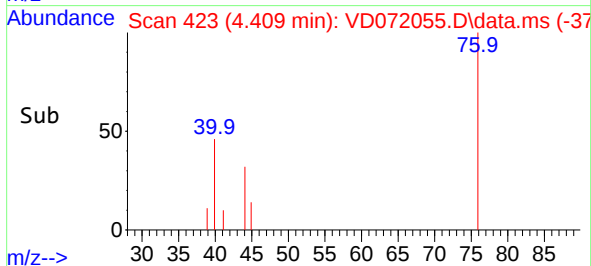


#17  
Carbon Disulfide  
Concen: 1.022 ug/l  
RT: 4.409 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

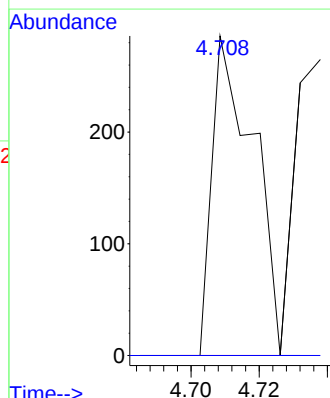
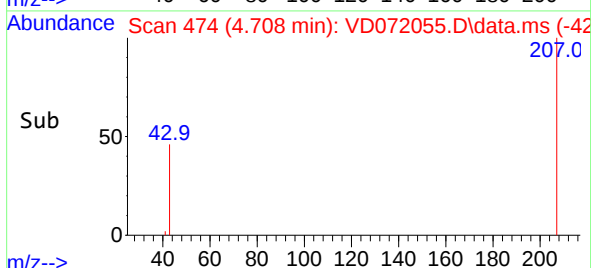
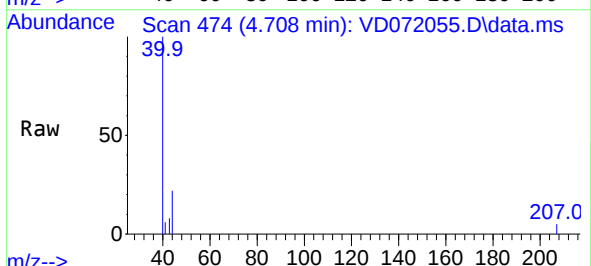


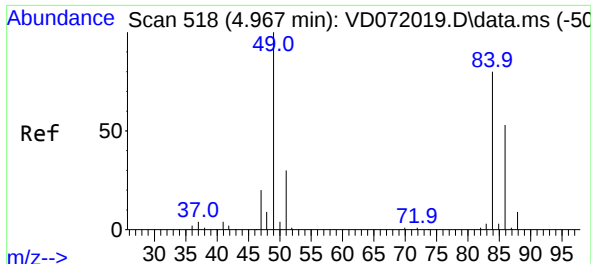
Tgt Ion: 76 Resp: 5077  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.7 10.1#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.708 min Scan# 474  
Delta R.T. 0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

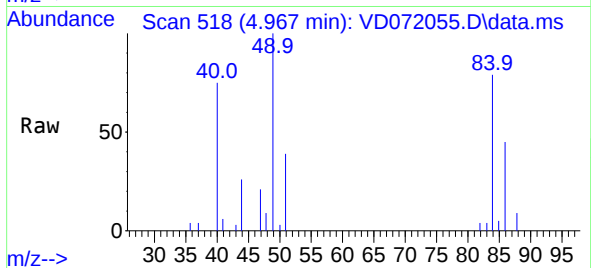
Tgt Ion: 43 Resp: 241  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 27.8#





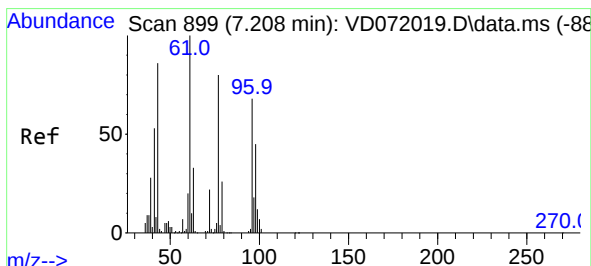
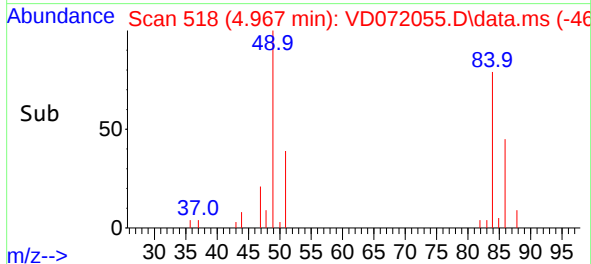
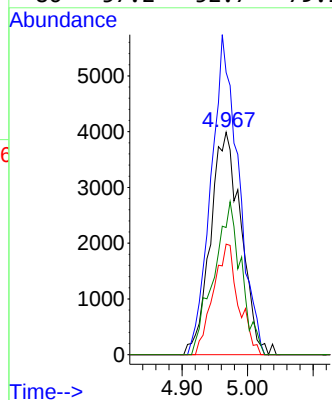
#20  
Methylene Chloride  
Concen: 2.123 ug/l  
RT: 4.967 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 84 Resp: 12919

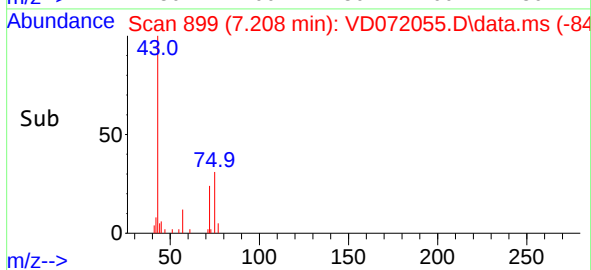
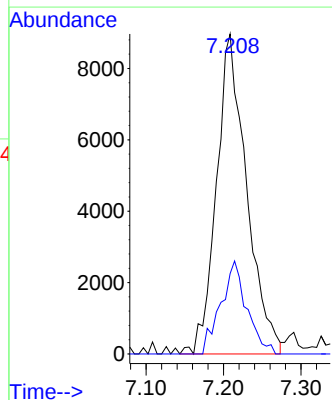
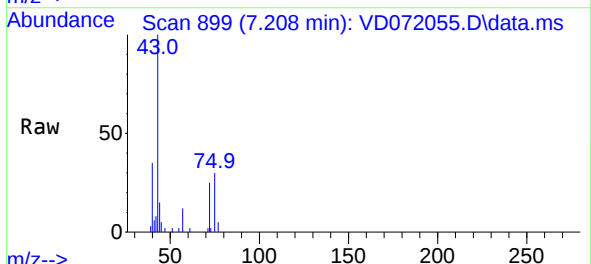
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 126.9 | 100.0 | 150.0 |
| 51  | 49.7  | 30.2  | 45.4# |
| 86  | 57.2  | 52.7  | 79.1  |

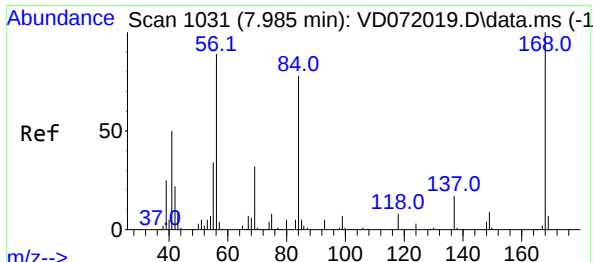


#25  
2-Butanone  
Concen: 14.339 ug/l  
RT: 7.208 min Scan# 899  
Delta R.T. 0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Tgt Ion: 43 Resp: 24236

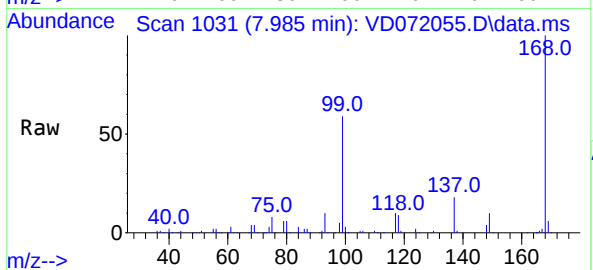
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 25.1  | 20.3  | 30.5  |



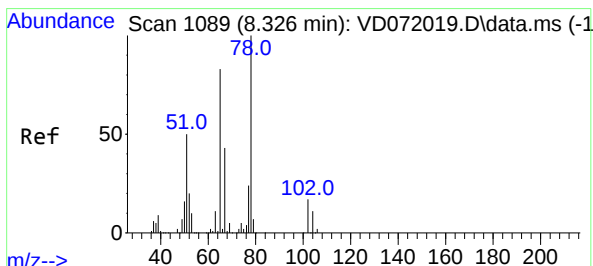
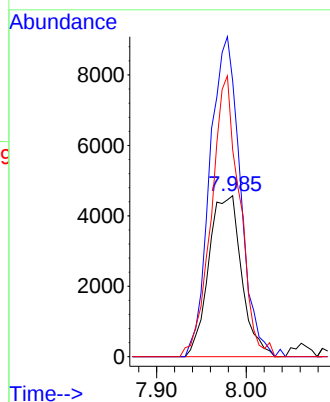
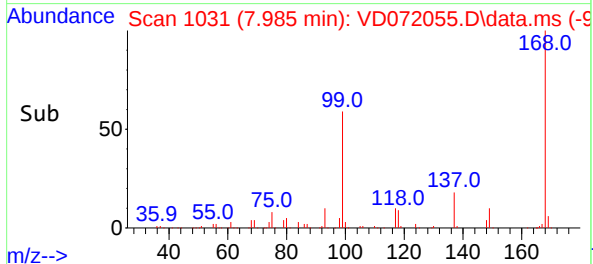


#31  
Cyclohexane  
Concen: 1.160 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VD072055.D  
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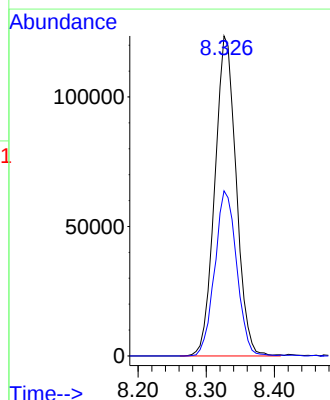
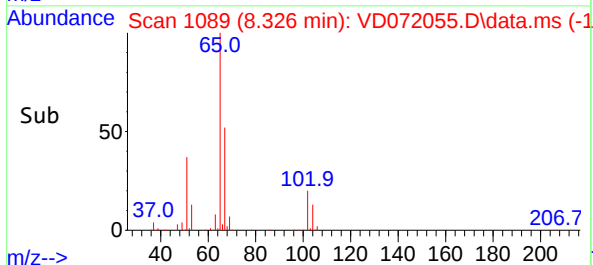
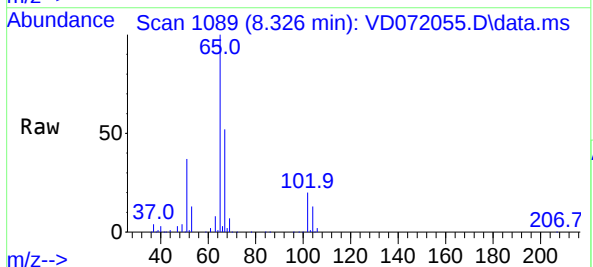


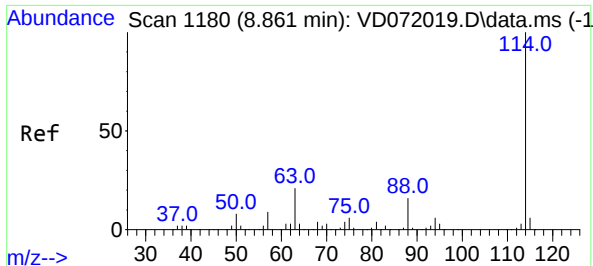
Tgt Ion: 56 Resp: 11592  
Ion Ratio Lower Upper  
56 100  
69 171.3 28.9 43.3#  
84 128.5 70.6 105.8#



#33  
1,2-Dichloroethane-d4  
Concen: 47.650 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Tgt Ion: 65 Resp: 269629  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD072055.D

Acq: 22 Feb 2022 14:11

Instrument :

MSVOA\_D

ClientSampleId :

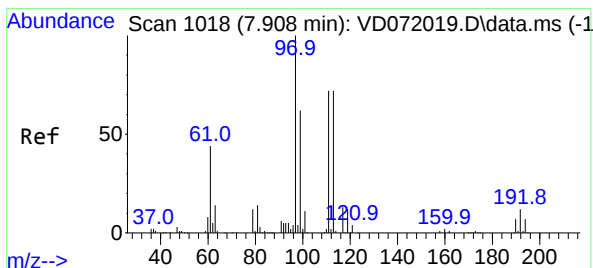
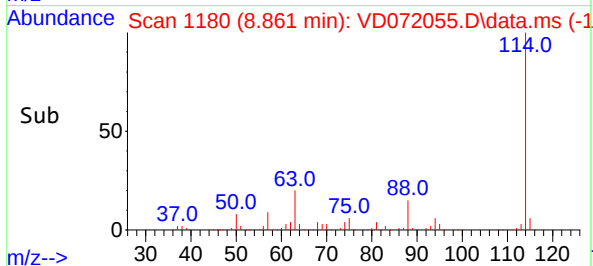
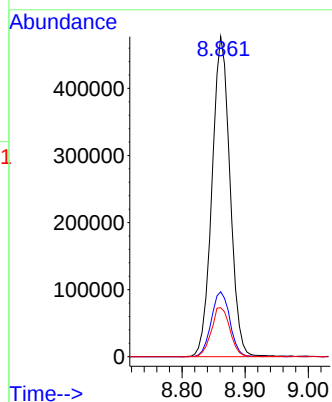
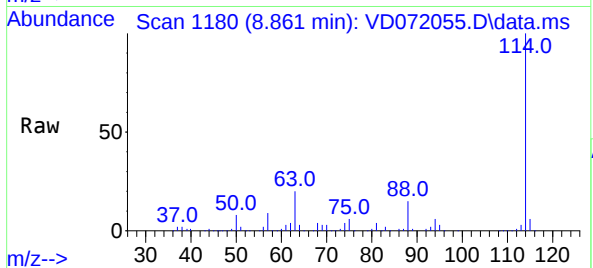
Tgt Ion:114 Resp: 942854

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.2

88 15.3 0.0 31.2



#35

Dibromofluoromethane

Concen: 37.958 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VD072055.D

Acq: 22 Feb 2022 14:11

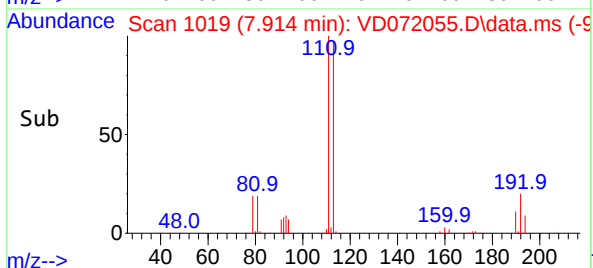
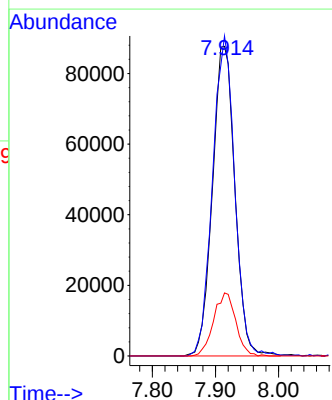
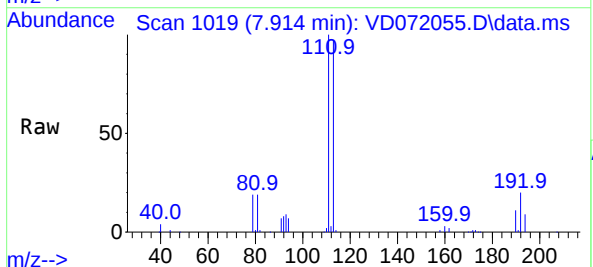
Tgt Ion:113 Resp: 216832

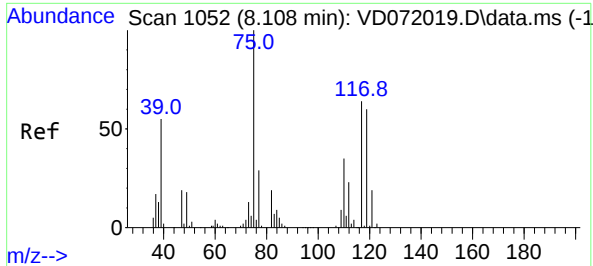
Ion Ratio Lower Upper

113 100

111 101.8 83.0 124.4

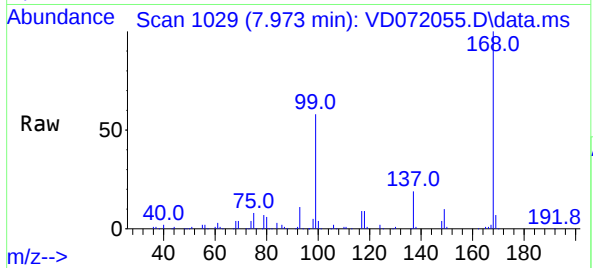
192 20.1 15.3 22.9



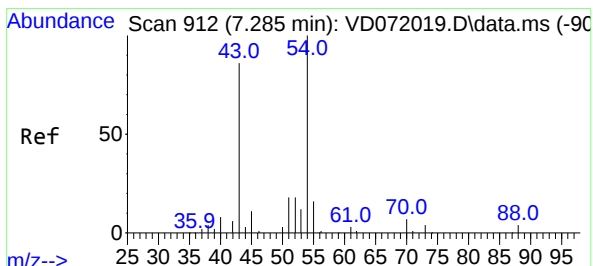
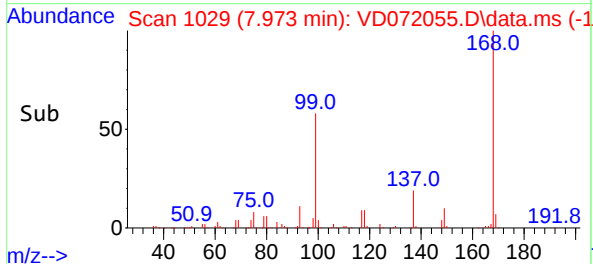
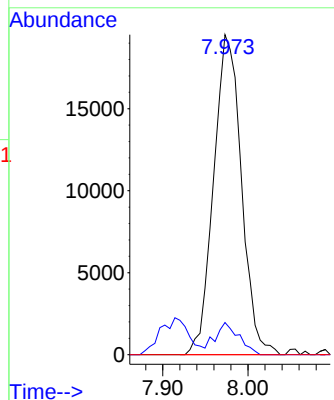


#36  
1,1-Dichloropropene  
Concen: 5.110 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

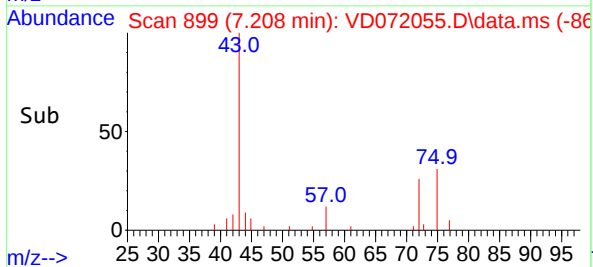
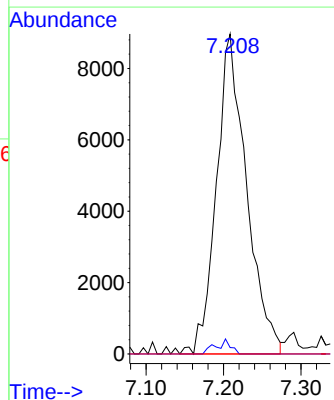
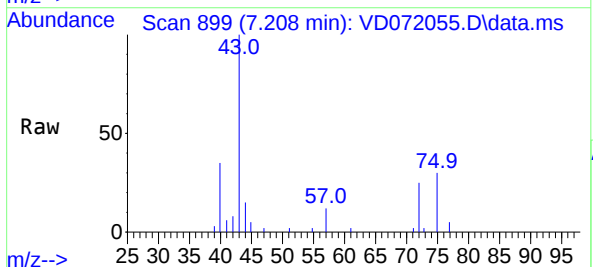


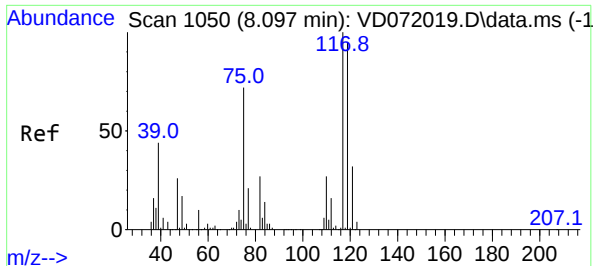
Tgt Ion: 75 Resp: 44214  
Ion Ratio Lower Upper  
75 100  
110 8.5 17.7 53.1#  
77 0.0 24.8 37.2#



#37  
Ethyl Acetate  
Concen: 6.040 ug/l  
RT: 7.208 min Scan# 899  
Delta R.T. -0.076 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

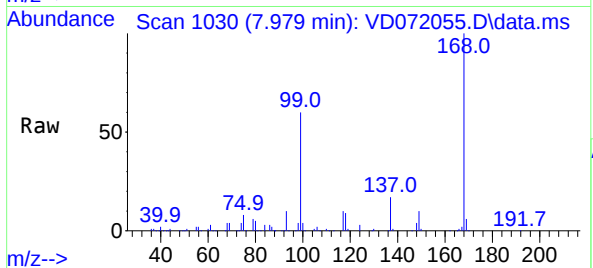
Tgt Ion: 43 Resp: 24236  
Ion Ratio Lower Upper  
43 100  
61 2.2 9.8 14.8#  
70 0.0 7.4 11.2#



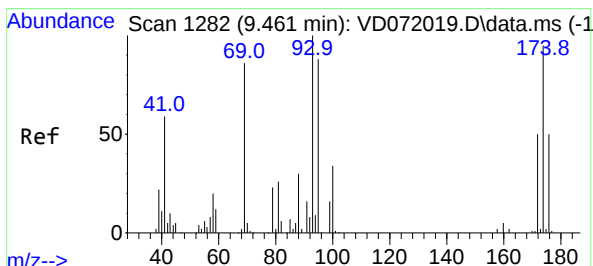
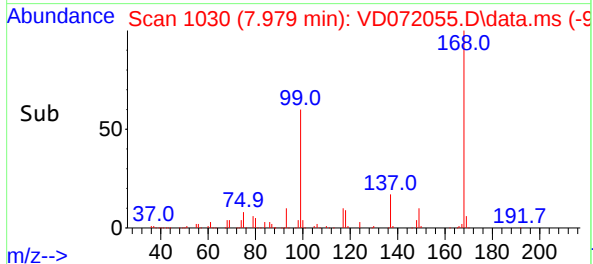
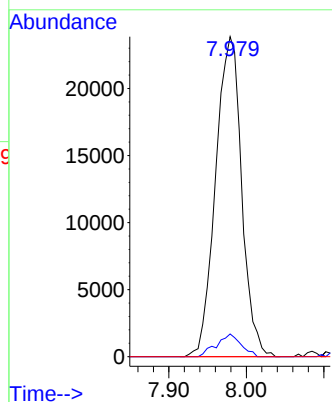


#38  
Carbon Tetrachloride  
Concen: 6.281 ug/l  
RT: 7.979 min Scan# 1050  
Delta R.T. -0.118 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

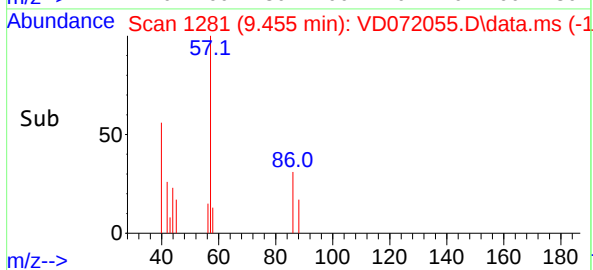
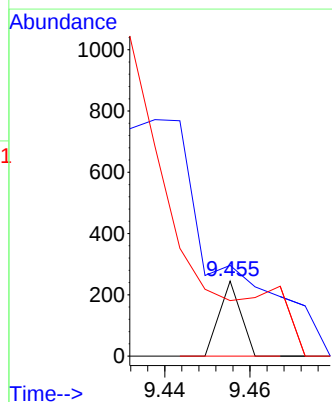
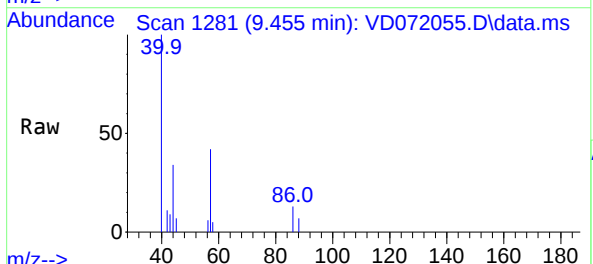


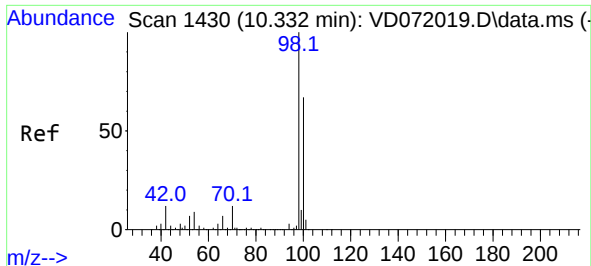
Tgt Ion:117 Resp: 55705  
Ion Ratio Lower Upper  
117 100  
119 7.1 75.8 113.8#  
121 0.0 25.8 38.6#



#49  
1,4-Dioxane  
Concen: 2.109 ug/l  
RT: 9.455 min Scan# 1281  
Delta R.T. -0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Tgt Ion: 88 Resp: 86  
Ion Ratio Lower Upper  
88 100  
43 0.0 29.9 44.9#  
58 0.0 61.0 91.4#

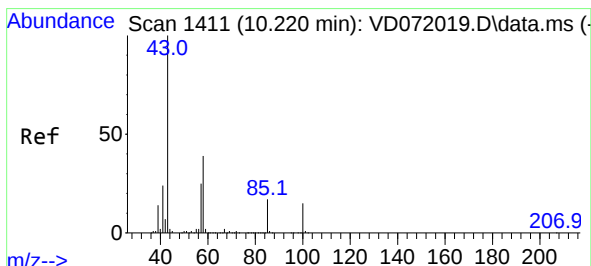
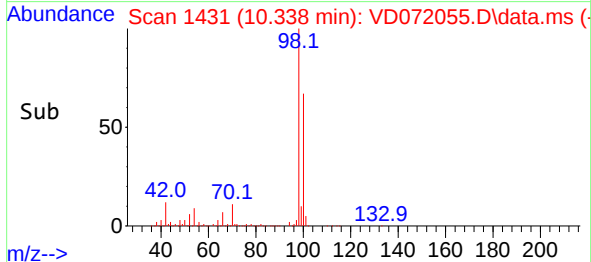
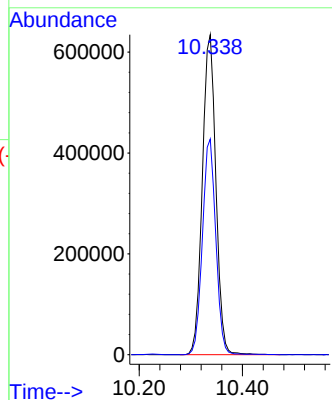
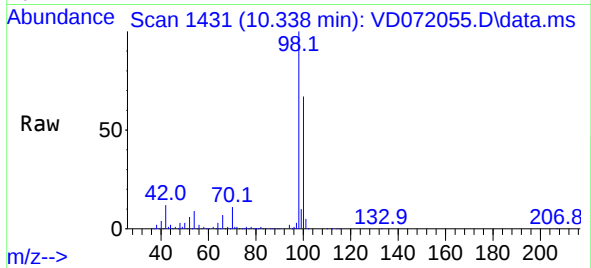




#50  
Toluene-d8  
Concen: 54.418 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

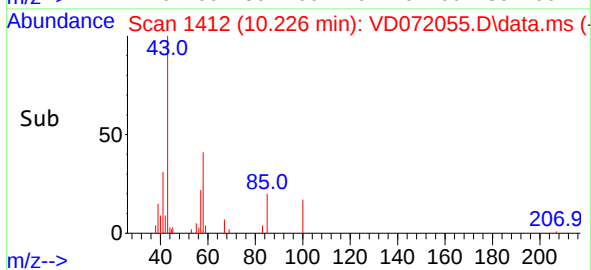
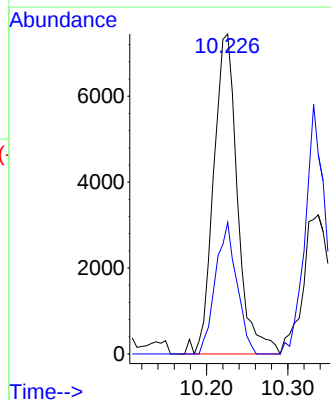
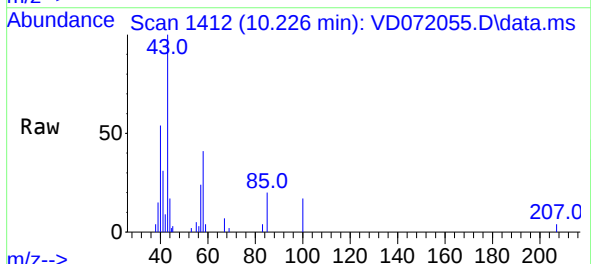
Instrument :  
MSVOA\_D  
ClientSampleId :

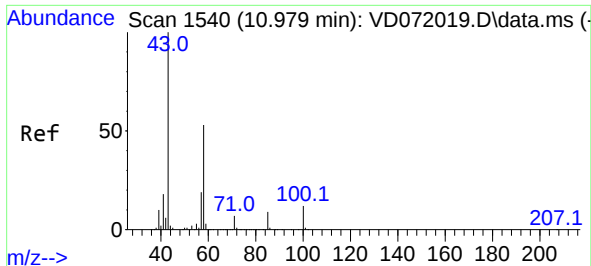
Tgt Ion: 98 Resp: 1152802  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.8 80.6



#51  
4-Methyl-2-Pentanone  
Concen: 3.864 ug/l  
RT: 10.226 min Scan# 1412  
Delta R.T. 0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

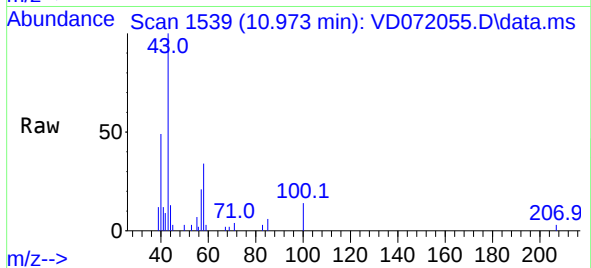
Tgt Ion: 43 Resp: 15302  
Ion Ratio Lower Upper  
43 100  
58 36.5 30.8 46.2



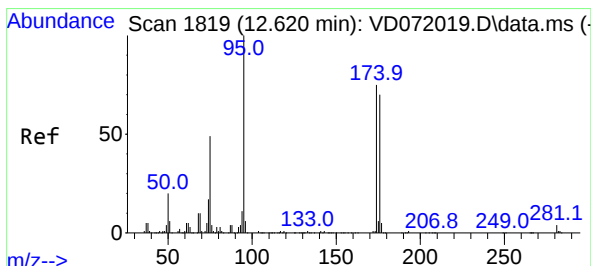
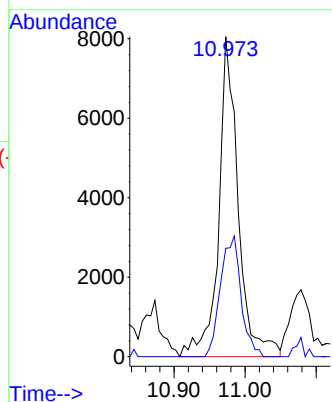
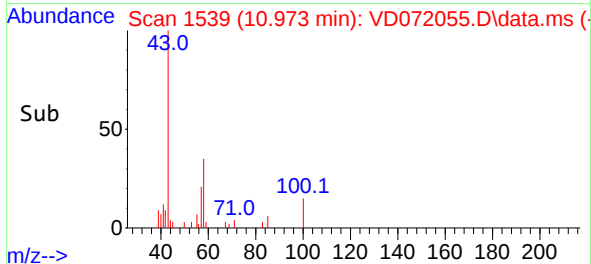


#59  
2-Hexanone  
Concen: 5.658 ug/l  
RT: 10.973 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

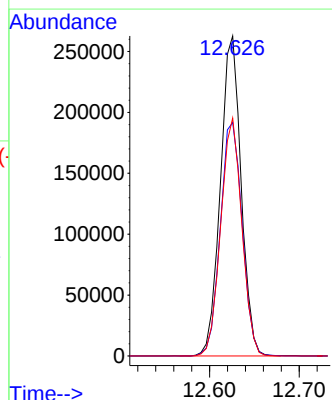
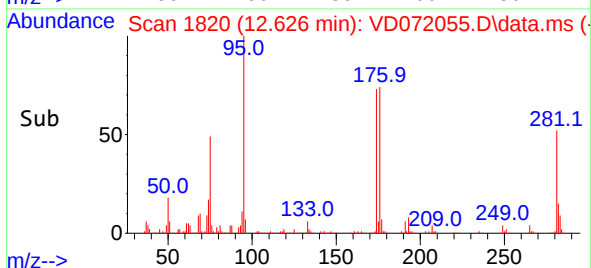
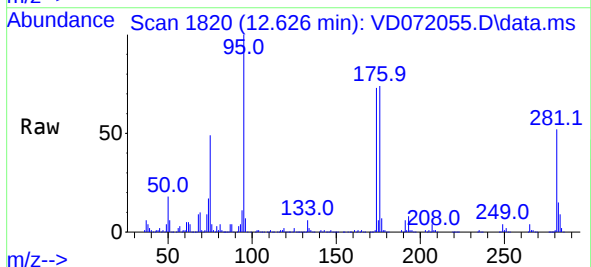


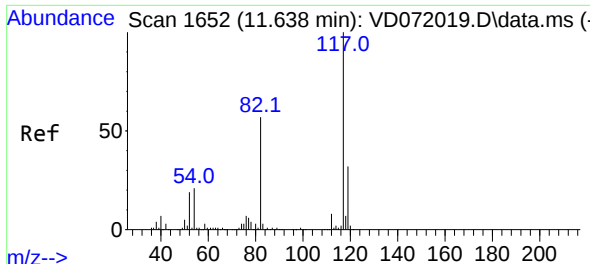
Tgt Ion: 43 Resp: 15284  
Ion Ratio Lower Upper  
43 100  
58 39.8 27.0 80.8



#62  
4-Bromofluorobenzene  
Concen: 54.023 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

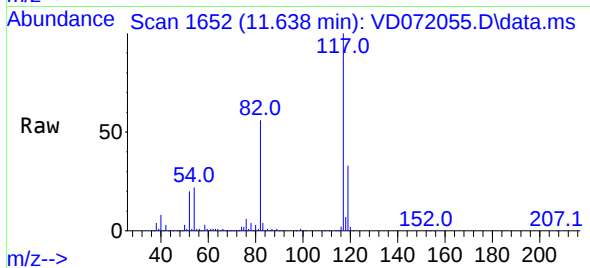
Tgt Ion: 95 Resp: 420385  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 155.0  
176 75.6 0.0 148.8



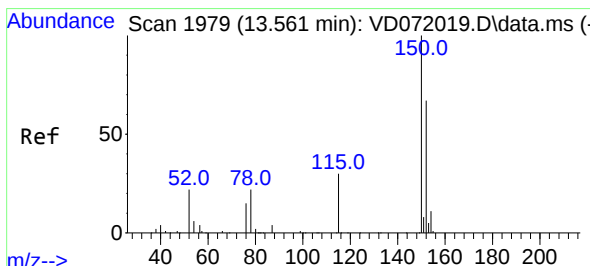
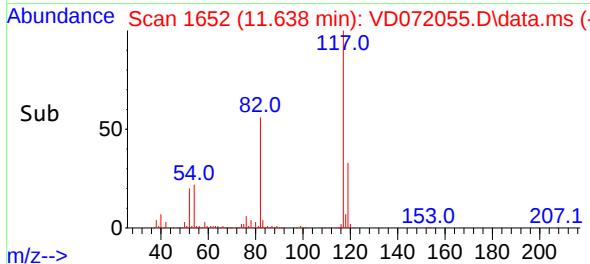
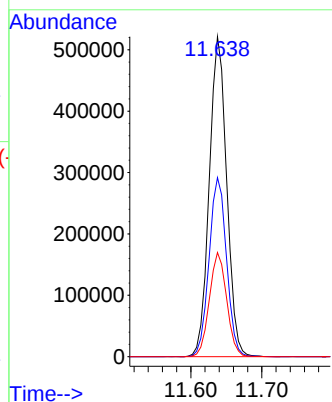


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

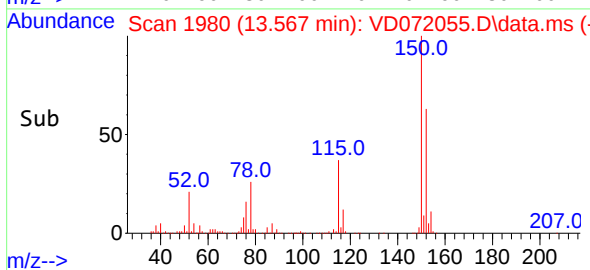
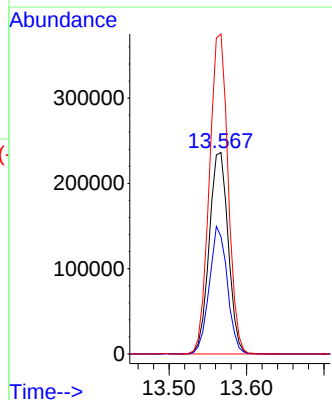
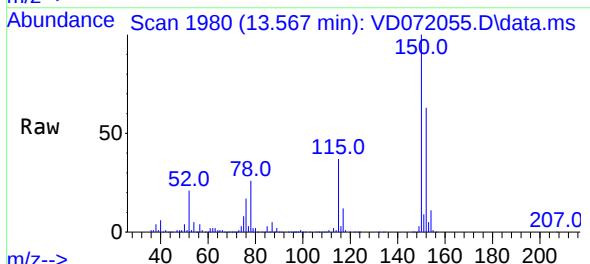


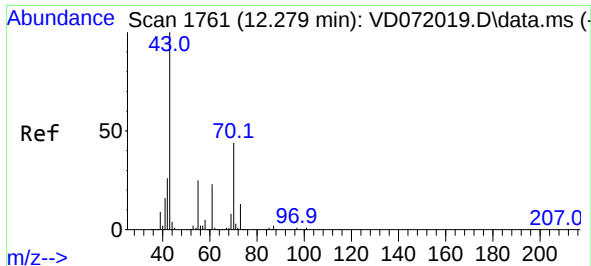
Tgt Ion:117 Resp: 888289  
Ion Ratio Lower Upper  
117 100  
82 56.0 45.4 68.0  
119 32.5 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.006 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

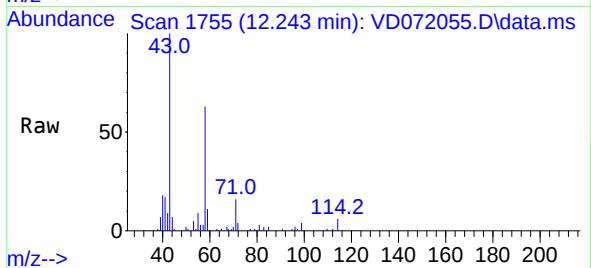
Tgt Ion:152 Resp: 404169  
Ion Ratio Lower Upper  
152 100  
115 60.0 29.9 89.7  
150 156.3 0.0 347.6



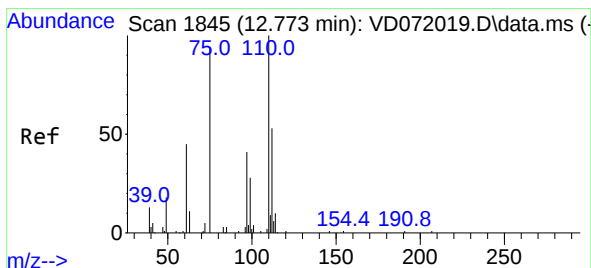
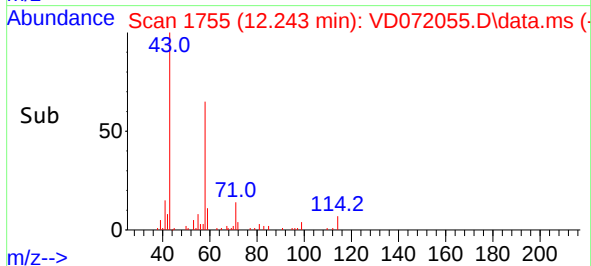
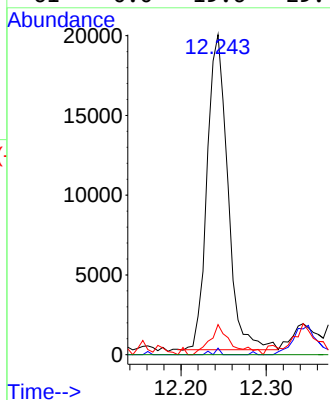


#74  
N-amy1 acetate  
Concen: 4.966 ug/l  
RT: 12.243 min Scan# 11  
Delta R.T. -0.035 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

Instrument :  
MSVOA\_D  
ClientSampleId :

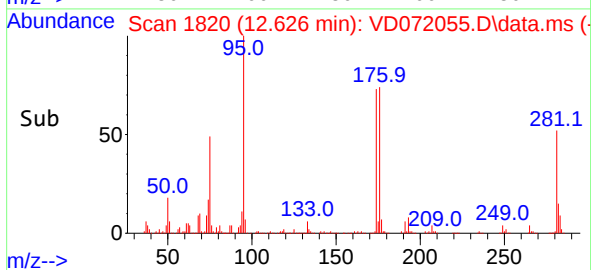
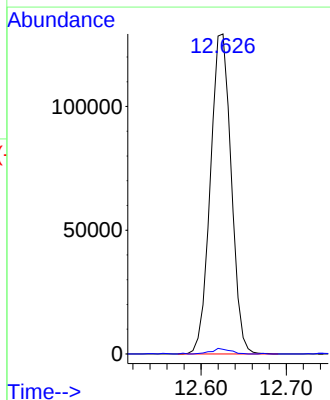
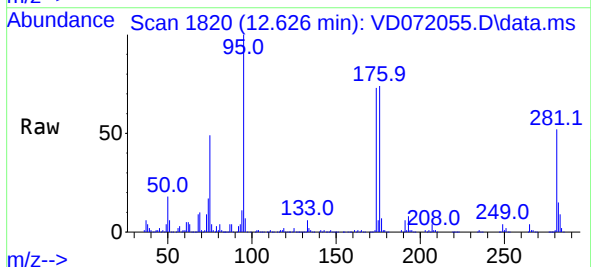


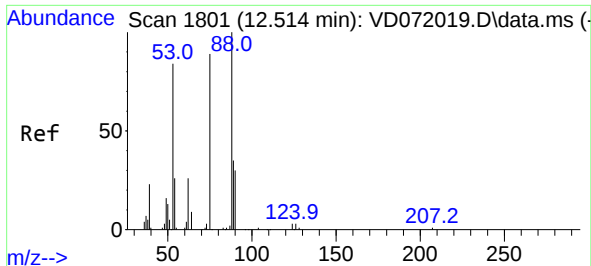
Tgt Ion: 43 Resp: 33279  
Ion Ratio Lower Upper  
43 100  
70 0.7 33.2 49.8#  
55 9.8 20.6 30.8#  
61 0.0 19.6 29.4#



#76  
1,2,3-Trichloropropane  
Concen: 57.280 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072055.D  
Acq: 22 Feb 2022 14:11

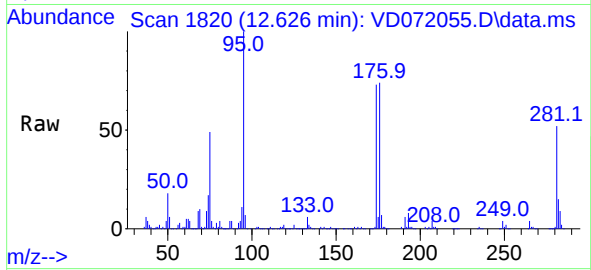
Tgt Ion: 75 Resp: 219291  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 143.442 ug/l  
 RT: 12.626 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VD072055.D  
 Acq: 22 Feb 2022 14:11

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 219291  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 80.2 120.4#  
 89 0.9 36.4 54.6#

