

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD082021\  
 Data File : VD070205.D  
 Acq On : 20 Aug 2021 16:18  
 Operator : VA/SY  
 Sample : M3449-10RE  
 Misc : 5.45G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 23 03:53:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 2021  
 Response via : Initial Calibration

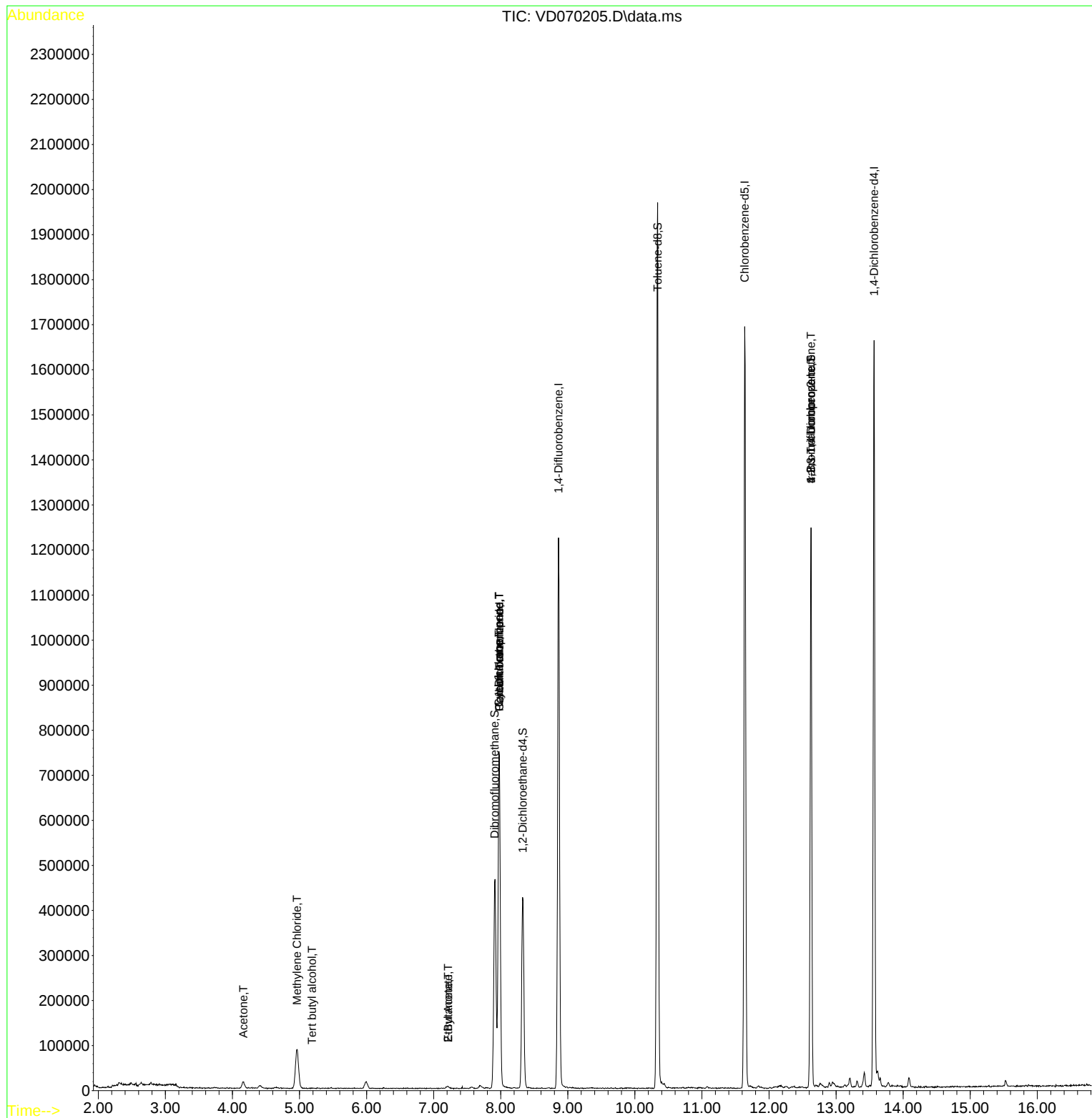
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 532540   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 1027436  | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 1005244  | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 430401   | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 338366   | 54.022    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 108.040% |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 345250   | 52.012    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 104.020% |          |
| 50) Toluene-d8                | 10.338 | 98    | 1337545  | 51.807    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 103.620% |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 429250   | 50.478    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 100.960% |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.985  | 85    | 612      | Below Cal | #          | 42       |
| 3) Chloromethane              | 2.209  | 50    | 1179     | Below Cal |            | 98       |
| 5) Bromomethane               | 2.773  | 94    | 2437     | Below Cal |            | 94       |
| 11) Tert butyl alcohol        | 5.185  | 59    | 571      | 1.649     | ug/l #     | 71       |
| 16) Acetone                   | 4.162  | 43    | 25419    | 22.030    | ug/l       | 97       |
| 20) Methylene Chloride        | 4.962  | 84    | 72113    | 1.217     | ug/l       | 91       |
| 25) 2-Butanone                | 7.214  | 43    | 5854     | 3.713     | ug/l       | 92       |
| 31) Cyclohexane               | 7.973  | 56    | 13151    | 1.061     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 50784    | 4.595     | ug/l #     | 49       |
| 37) Ethyl Acetate             | 7.214  | 43    | 5854     | 1.458     | ug/l #     | 67       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 56177    | 5.598     | ug/l #     | 14       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 207723   | 47.590    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 207723   | 123.526   | ug/l #     | 18       |
| -----                         |        |       |          |           |            |          |

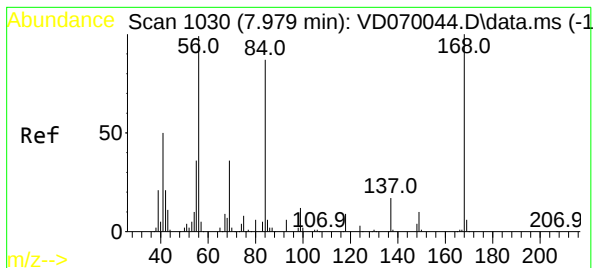
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD082021\  
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Sample : M3449-10RE  
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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 23 03:53:50 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 14 02:33:51 2021  
Response via : Initial Calibration



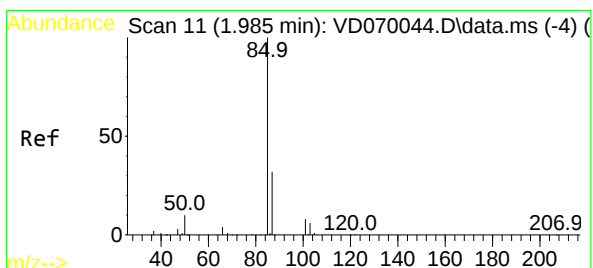
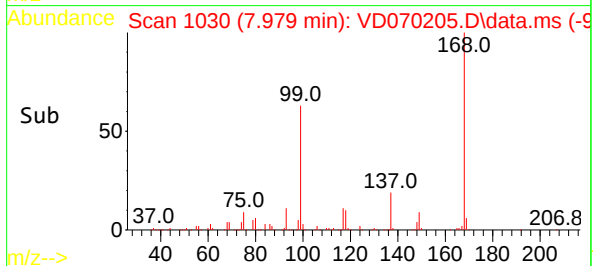
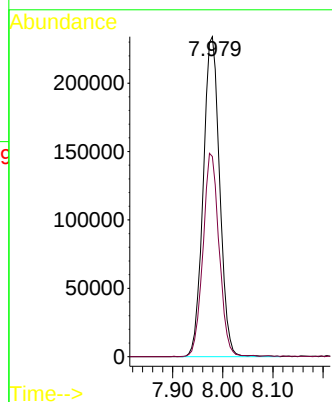
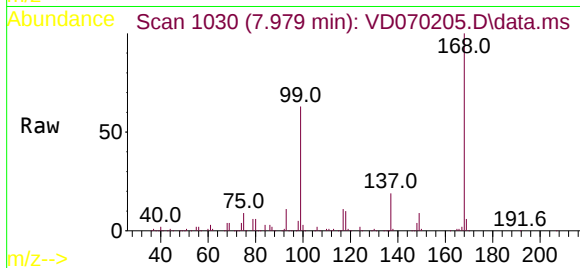


#1

Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.979 min Scan# 1030  
 Delta R.T. 0.000 min  
 Lab File: VD070205.D  
 Acq: 20 Aug 2021 16:18

Instrument :  
 MSVOA\_D  
 ClientSampleId :

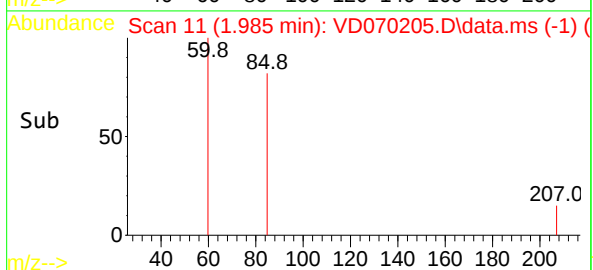
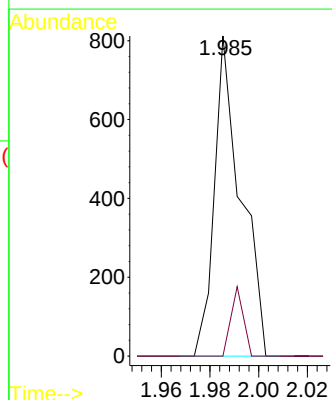
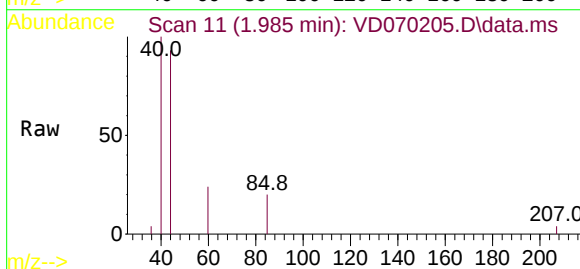
Tgt Ion:168 Resp: 532540  
 Ion Ratio Lower Upper  
 168 100  
 99 62.5 50.3 75.5

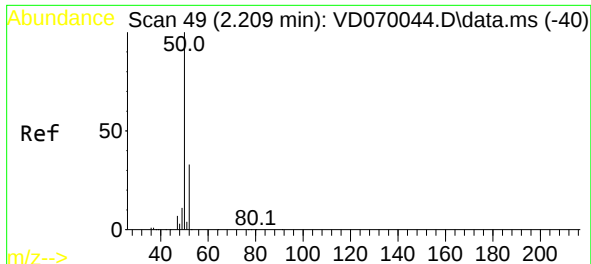


#2

Dichlorodifluoromethane  
 Concen: Below Cal  
 RT: 1.985 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VD070205.D  
 Acq: 20 Aug 2021 16:18

Tgt Ion: 85 Resp: 612  
 Ion Ratio Lower Upper  
 85 100  
 87 0.0 16.2 48.6#

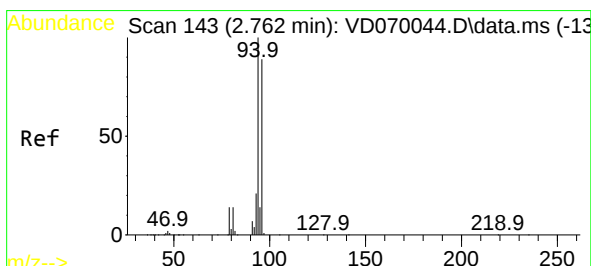
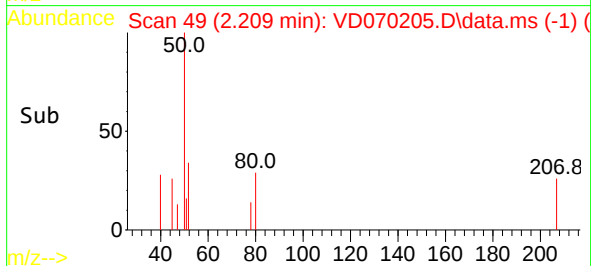
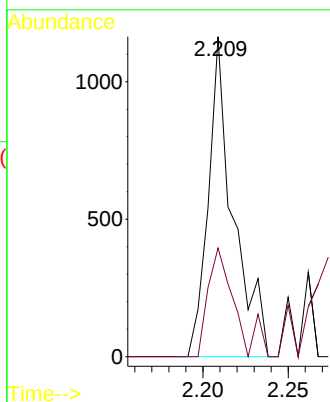
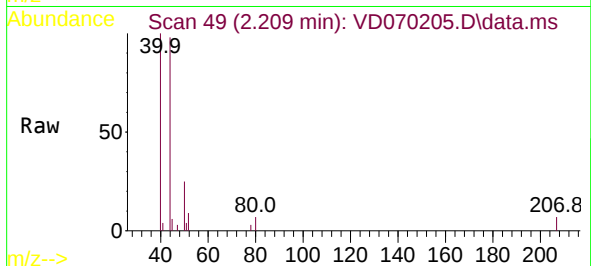




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

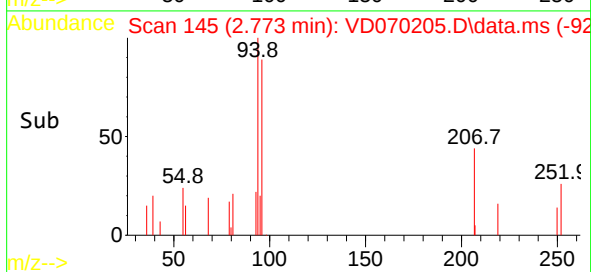
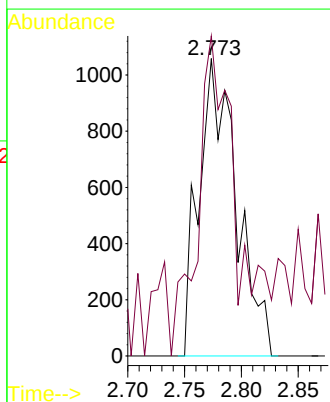
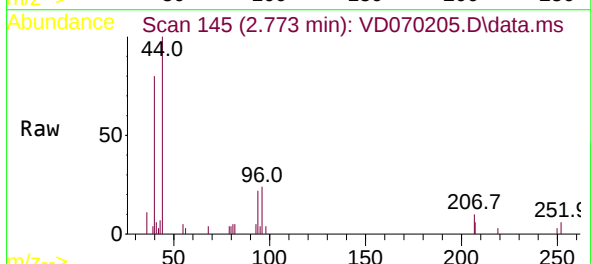
Instrument :  
MSVOA\_D  
ClientSampled :

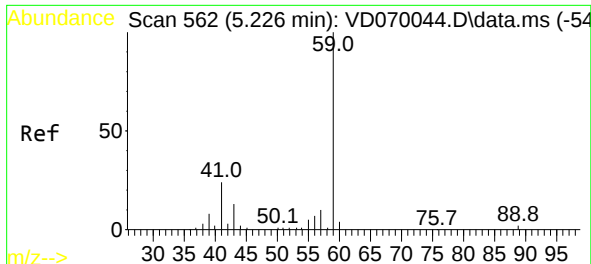
Tgt Ion: 50 Resp: 1179  
Ion Ratio Lower Upper  
50 100  
52 33.9 26.3 39.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.011 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

Tgt Ion: 94 Resp: 2437  
Ion Ratio Lower Upper  
94 100  
96 82.7 70.9 106.3



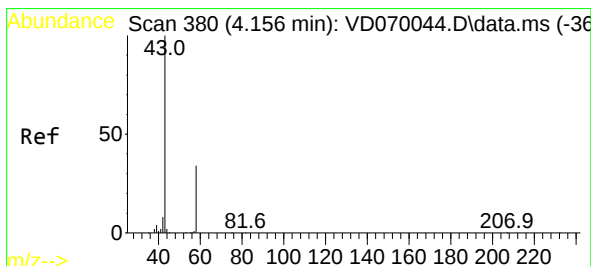
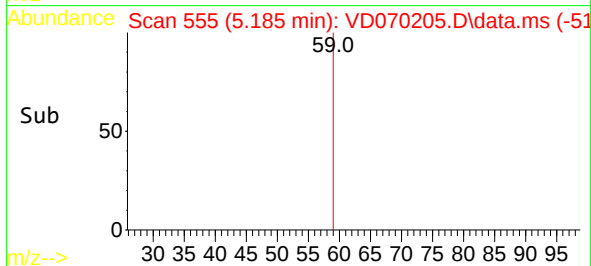
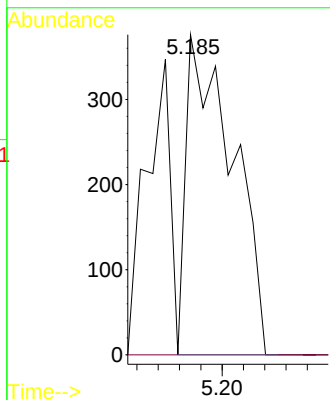
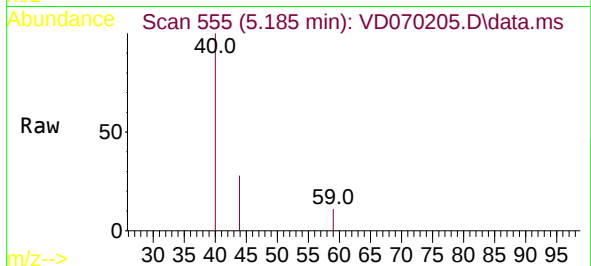


#11

Tert butyl alcohol  
Concen: 1.649 ug/l  
RT: 5.185 min Scan# 555  
Delta R.T. -0.041 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

Instrument :  
MSVOA\_D  
ClientSampled :

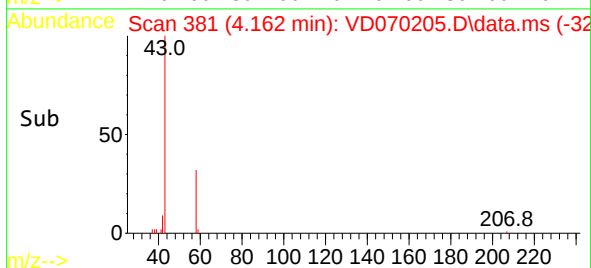
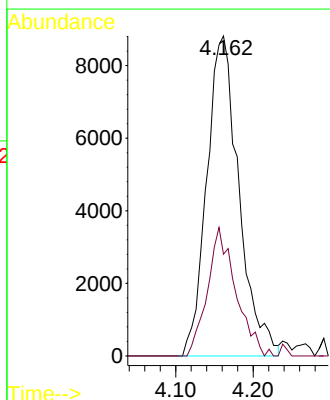
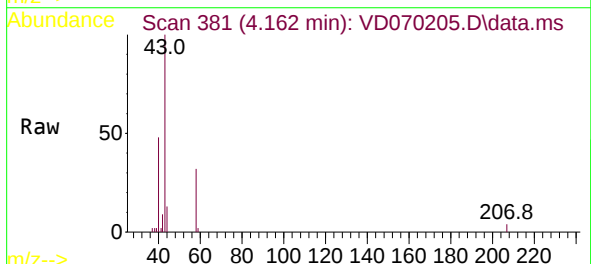
Tgt Ion: 59 Resp: 571  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.8 13.2#

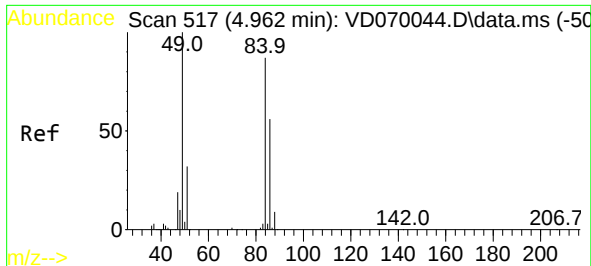


#16

Acetone  
Concen: 22.030 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

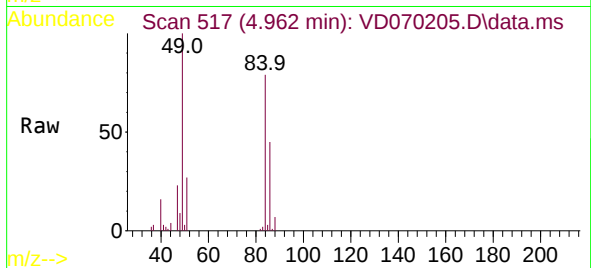
Tgt Ion: 43 Resp: 25419  
Ion Ratio Lower Upper  
43 100  
58 31.8 26.8 40.2



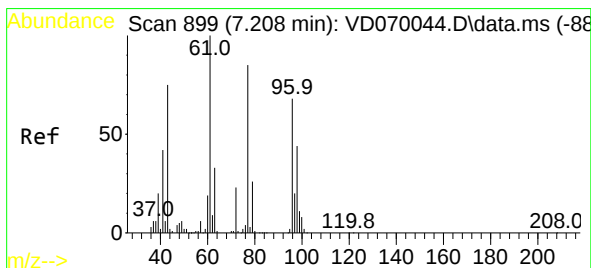
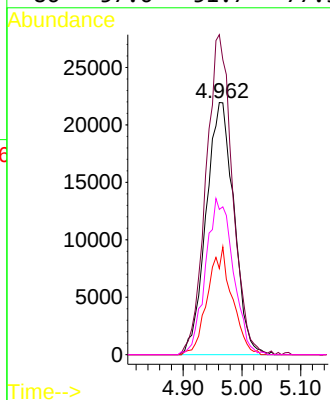
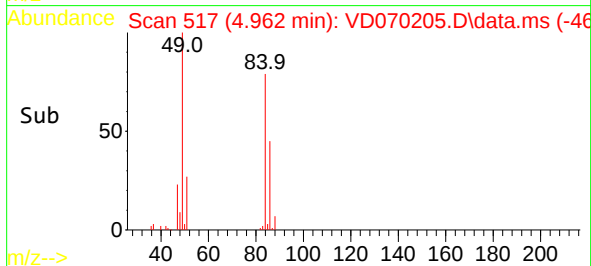


#20  
Methylene Chloride  
Concen: 1.217 ug/l  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

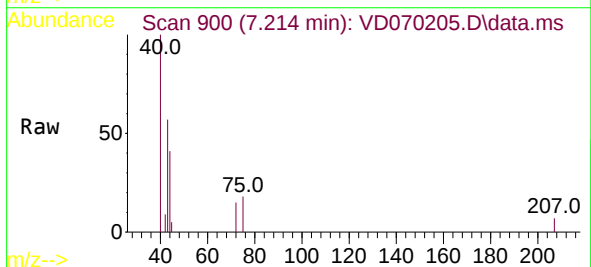
Instrument :  
MSVOA\_D  
ClientSampled :



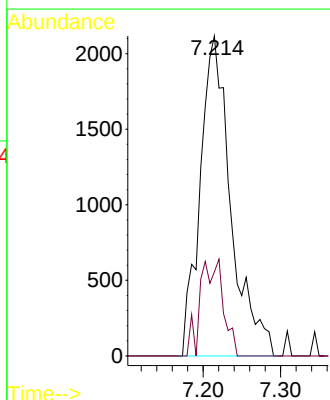
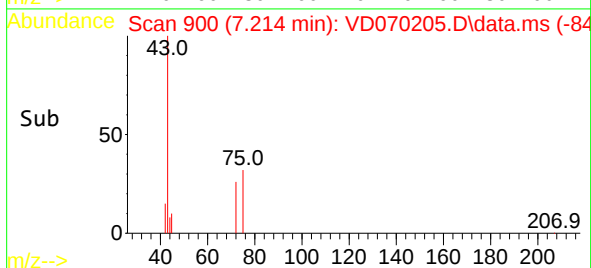
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 72113 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.9 | 92.5  | 138.7 |
| 51       | 34.2  | 29.7  | 44.5  |
| 86       | 57.6  | 51.7  | 77.5  |

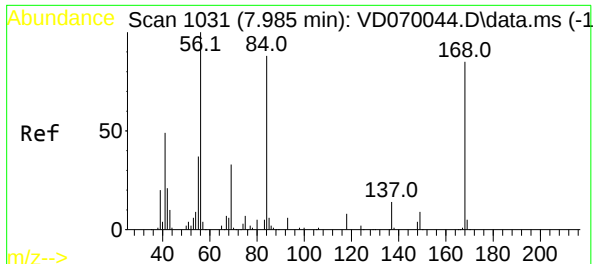


#25  
2-Butanone  
Concen: 3.713 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.006 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18



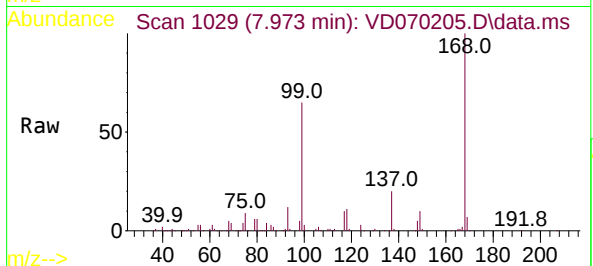
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5854  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 26.2  | 24.2  | 36.4  |



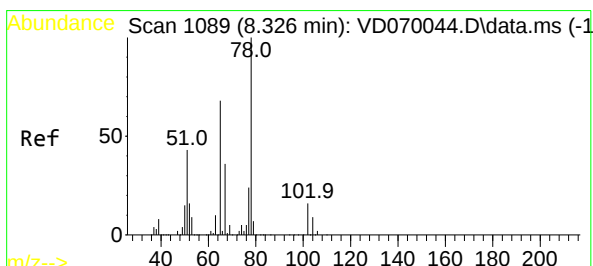
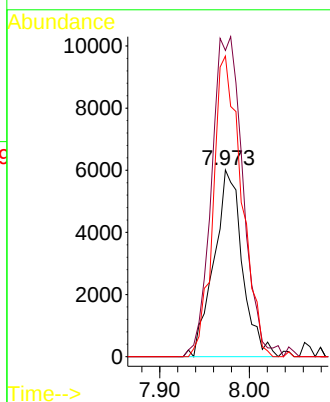
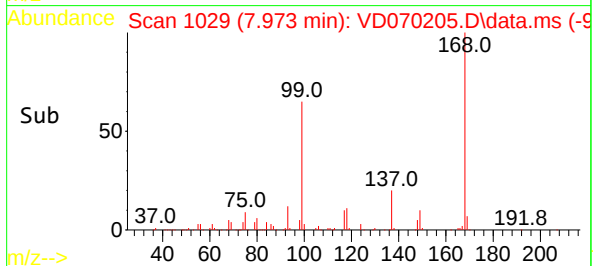


#31  
Cyclohexane  
Concen: 1.061 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

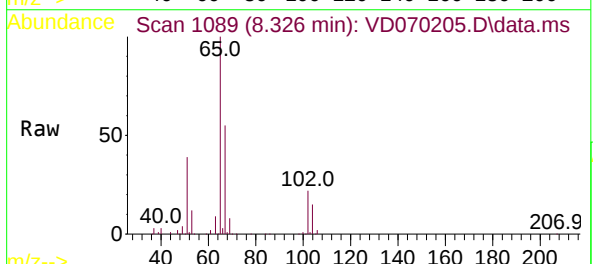
Instrument :  
MSVOA\_D  
ClientSampleId :



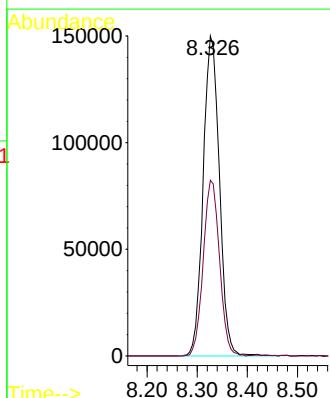
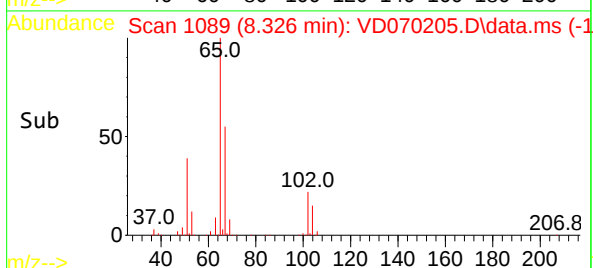
Tgt Ion: 56 Resp: 13151  
Ion Ratio Lower Upper  
56 100  
69 163.9 26.7 40.1#  
84 161.0 70.4 105.6#

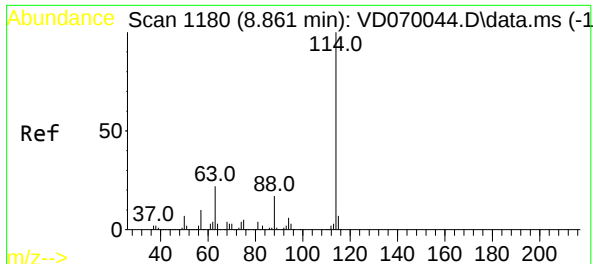


#33  
1,2-Dichloroethane-d4  
Concen: 54.022 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18



Tgt Ion: 65 Resp: 338366  
Ion Ratio Lower Upper  
65 100  
67 54.9 0.0 107.8



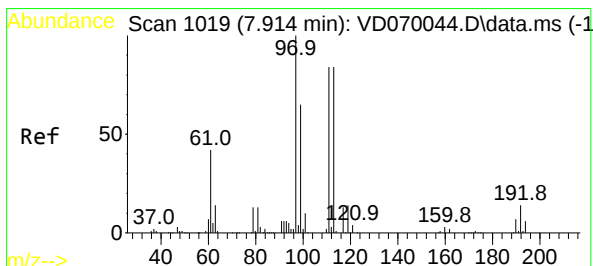
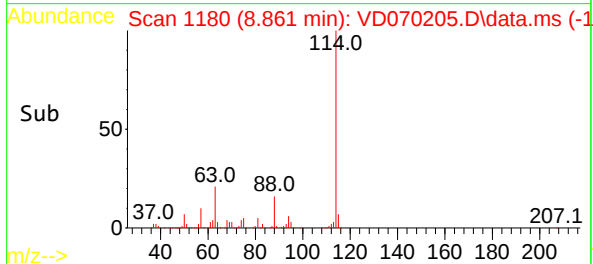
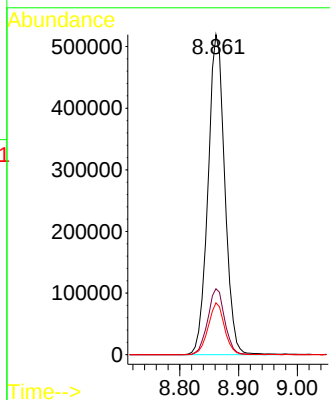
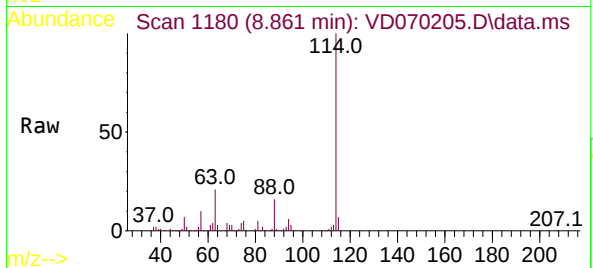


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

Instrument :  
MSVOA\_D  
ClientSampleId :

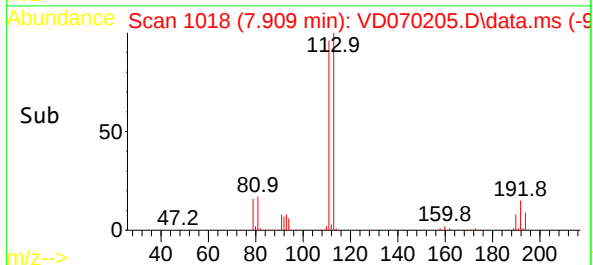
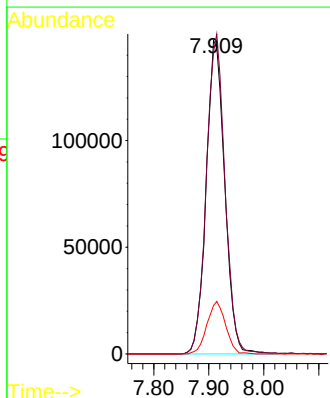
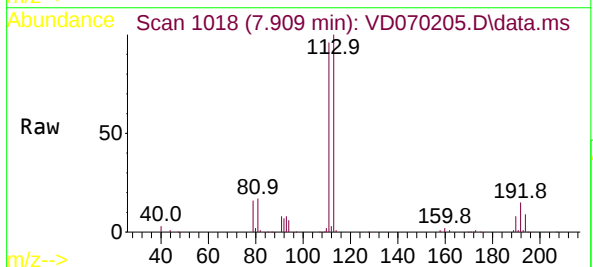
Tgt Ion:114 Resp: 1027436  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 43.6  
88 16.2 0.0 33.4

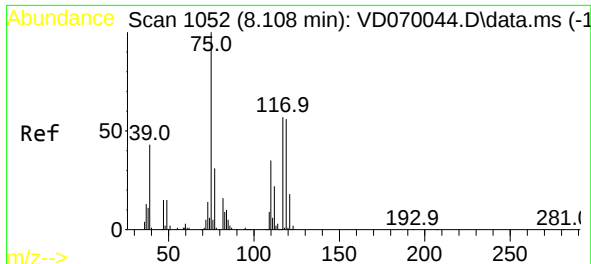


#35

Dibromofluoromethane  
Concen: 52.012 ug/l  
RT: 7.909 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

Tgt Ion:113 Resp: 345250  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.8 122.6  
192 16.8 13.2 19.8

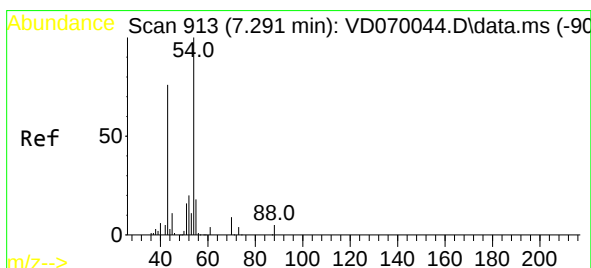
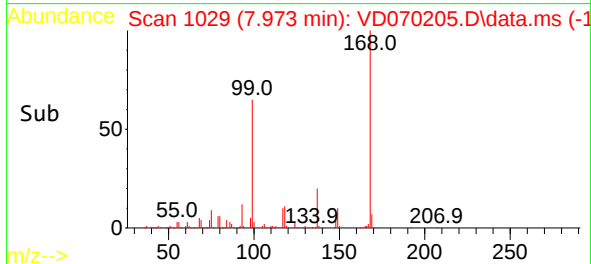
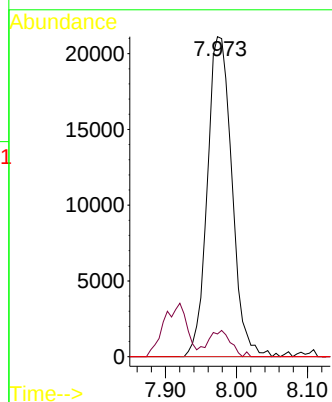
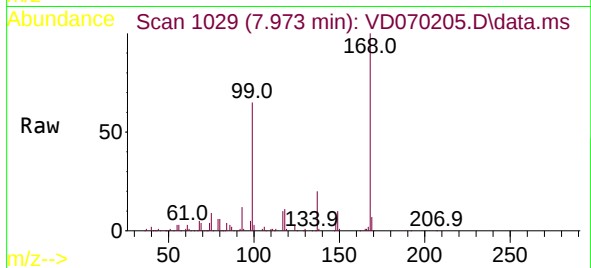




#36  
1,1-Dichloropropene  
Concen: 4.595 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

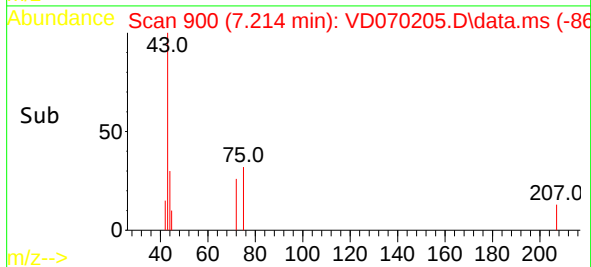
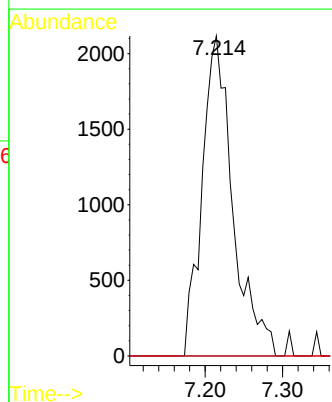
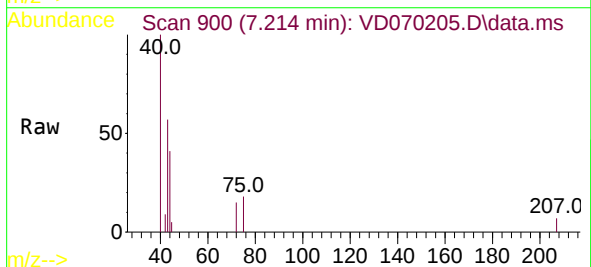
Instrument :  
MSVOA\_D  
ClientSampled :

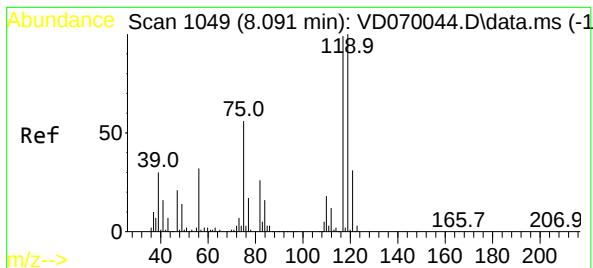
Tgt Ion: 75 Resp: 50784  
Ion Ratio Lower Upper  
75 100  
110 7.4 16.9 50.7#  
77 0.0 25.2 37.8#



#37  
Ethyl Acetate  
Concen: 1.458 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. -0.076 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

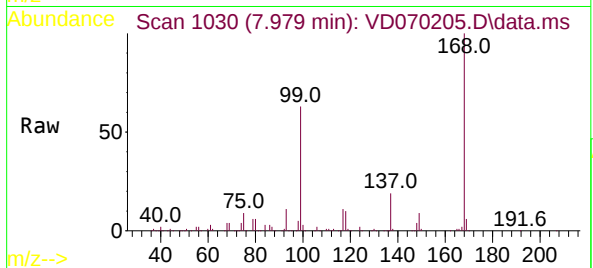
Tgt Ion: 43 Resp: 5854  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.8 17.6#  
70 0.0 9.0 13.6#



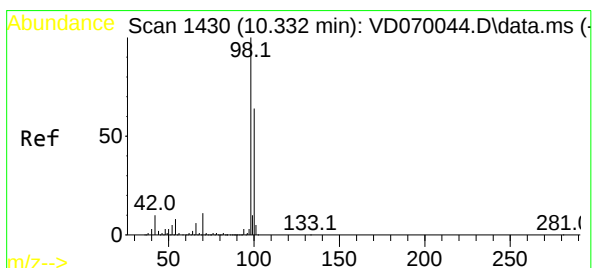
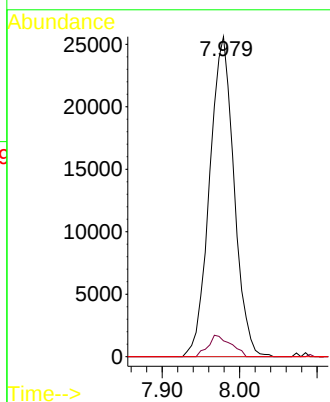
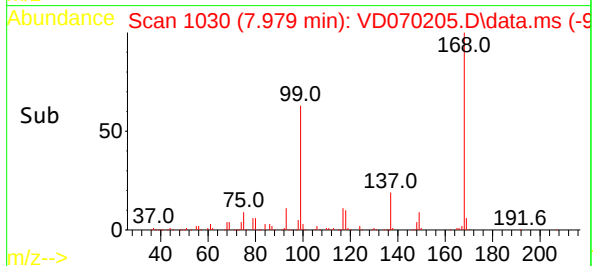


#38  
Carbon Tetrachloride  
Concen: 5.598 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.112 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

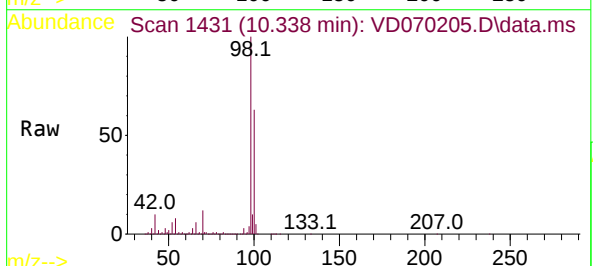
Instrument :  
MSVOA\_D  
ClientSampleId :



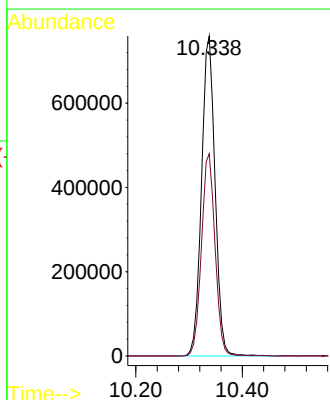
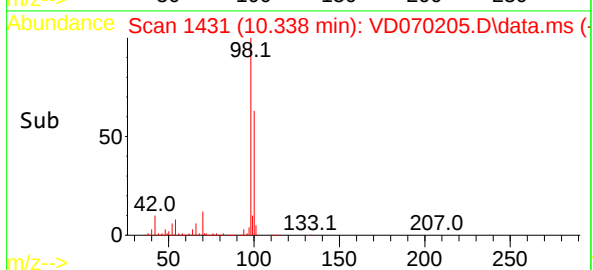
Tgt Ion:117 Resp: 56177  
Ion Ratio Lower Upper  
117 100  
119 5.0 81.0 121.6#  
121 0.0 25.0 37.6#

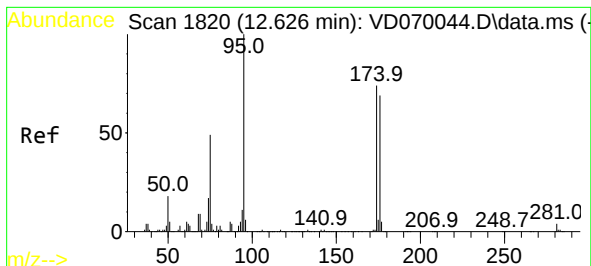


#50  
Toluene-d8  
Concen: 51.807 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18



Tgt Ion: 98 Resp: 1337545  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.6 78.8

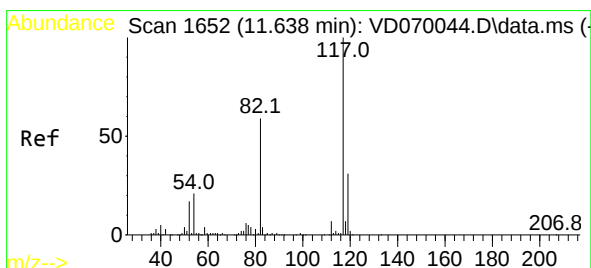
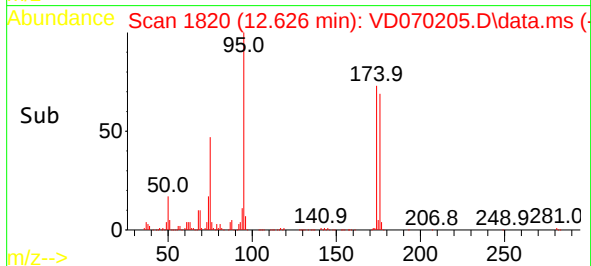
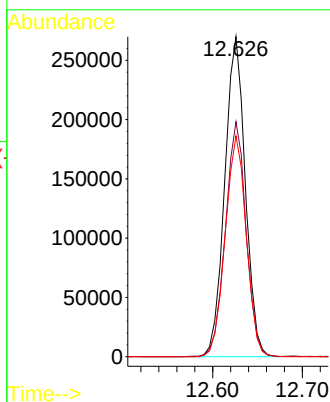
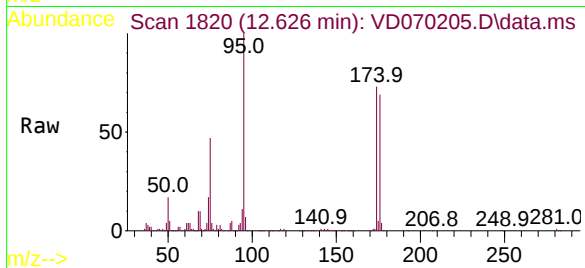




#62  
4-Bromofluorobenzene  
Concen: 50.478 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

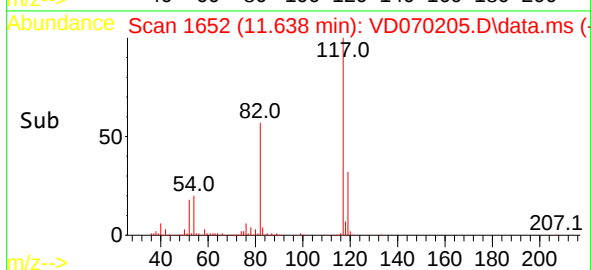
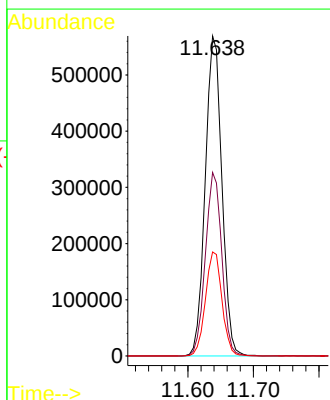
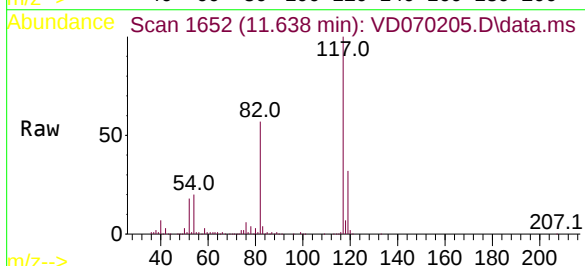
Instrument :  
MSVOA\_D  
ClientSampled :

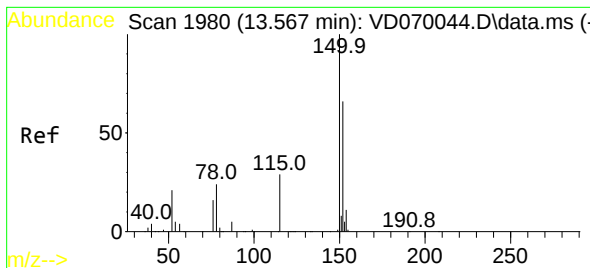
Tgt Ion: 95 Resp: 429250  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 141.6  
176 70.7 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070205.D  
Acq: 20 Aug 2021 16:18

Tgt Ion: 117 Resp: 1005244  
Ion Ratio Lower Upper  
117 100  
82 57.4 47.5 71.3  
119 32.5 25.1 37.7

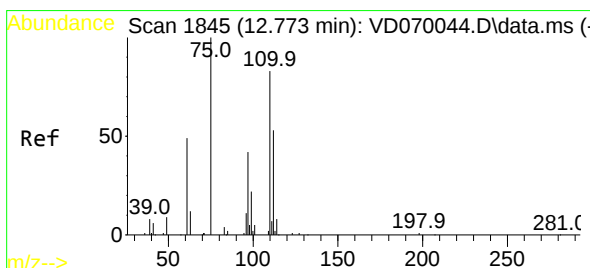
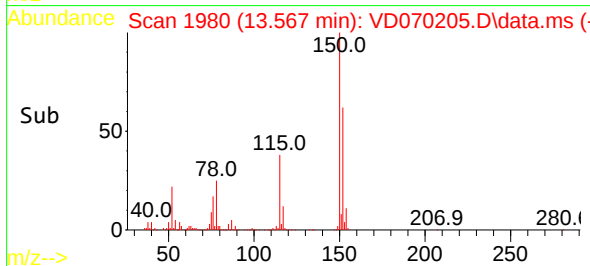
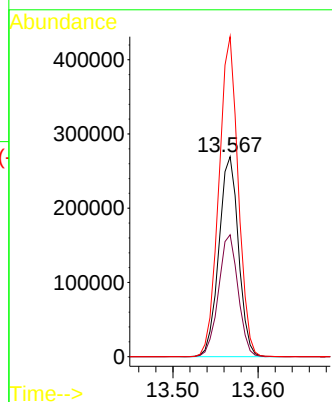
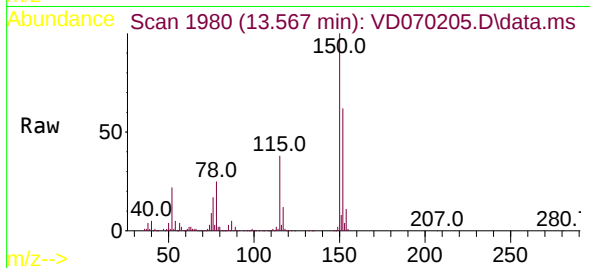




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.567 min Scan# 1980  
 Delta R.T. 0.000 min  
 Lab File: VD070205.D  
 Acq: 20 Aug 2021 16:18

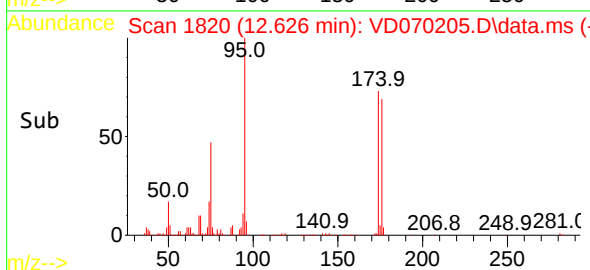
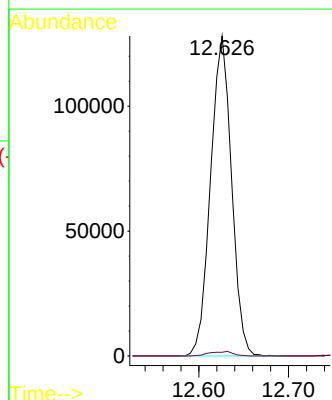
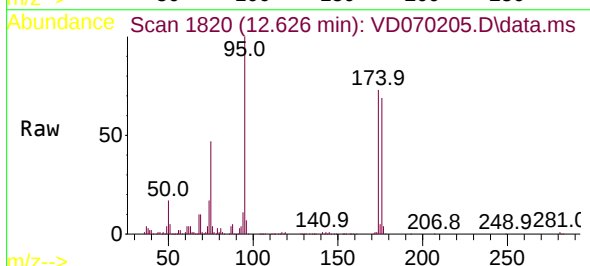
Instrument :  
 MSVOA\_D  
 ClientSampleId :

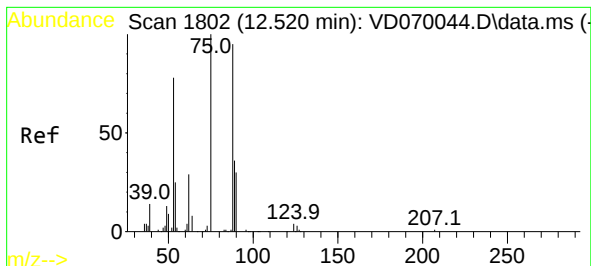
Tgt Ion:152 Resp: 430401  
 Ion Ratio Lower Upper  
 152 100  
 115 60.9 31.2 93.6  
 150 157.8 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 47.590 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.147 min  
 Lab File: VD070205.D  
 Acq: 20 Aug 2021 16:18

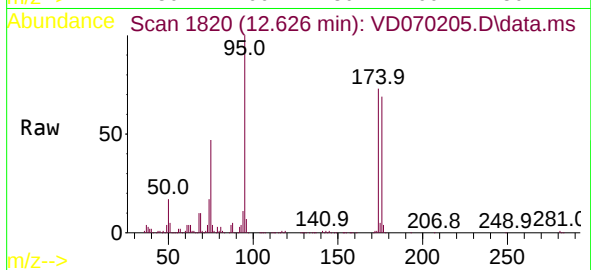
Tgt Ion: 75 Resp: 207723  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 182.4 547.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 123.526 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD070205.D  
 Acq: 20 Aug 2021 16:18

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion: 75 Resp: 207723  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 53  | 0.4   | 64.5  | 96.7# |
| 89  | 0.0   | 33.7  | 50.5# |

