

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051722\  
 Data File : VD073060.D  
 Acq On : 17 May 2022 16:42  
 Operator : VA/SY  
 Sample : N2829-01  
 Misc : 5.01 G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OK-02-051222

Quant Time: May 17 18:00:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 17 13:03:08 2022  
 Response via : Initial Calibration

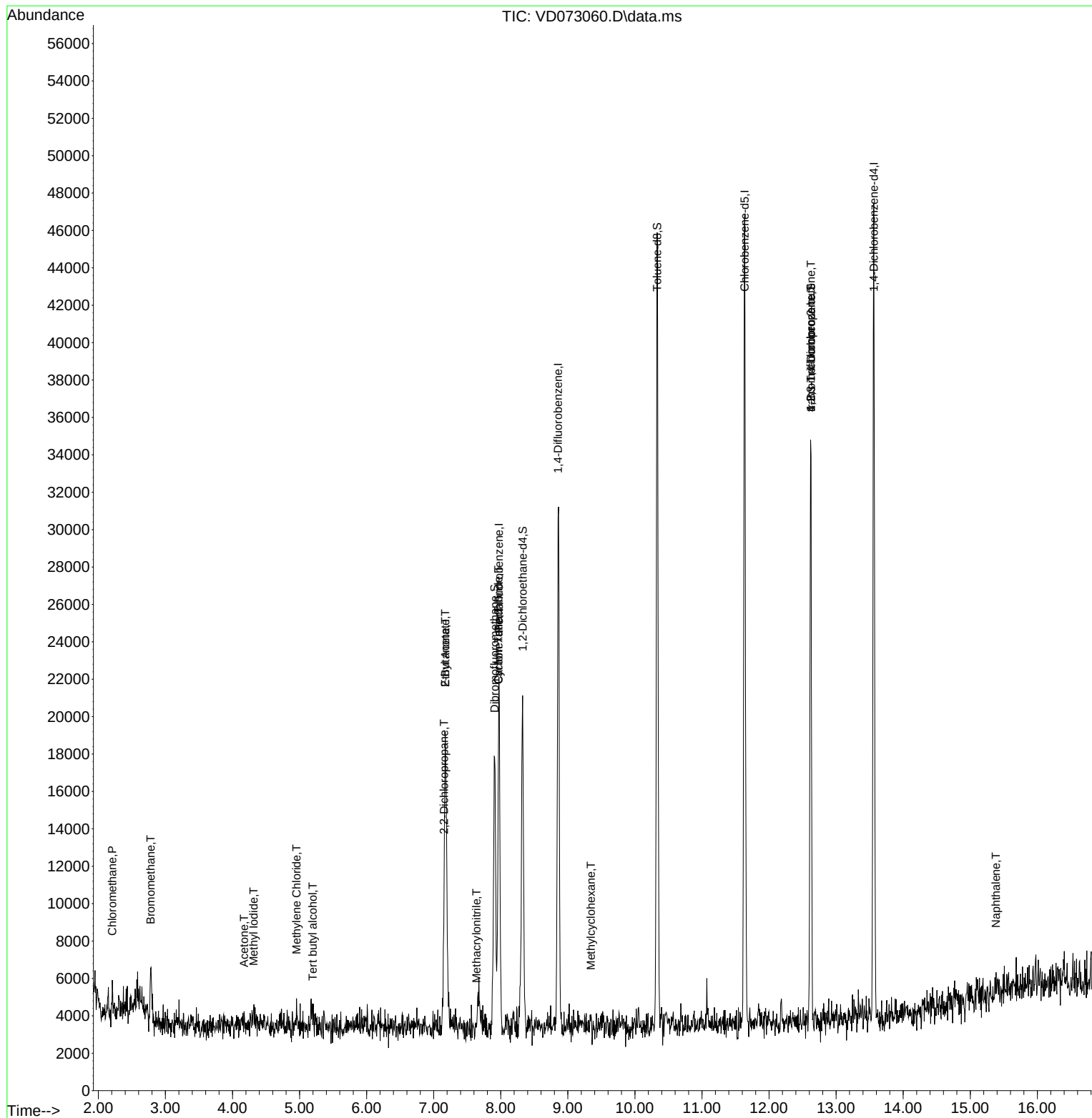
| Compound                      | R.T. QIon |       | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|-------------|----------|
| -----                         |           |       |          |          |             |          |
| Internal Standards            |           |       |          |          |             |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 13208    | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855     | 114   | 22061    | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 25910    | 50.000   | ug/l        | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.561    | 152   | 11005    | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |           |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.326     | 65    | 13616    | 82.433   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | = 164.860%# |          |
| 35) Dibromofluoromethane      | 7.908     | 113   | 10958    | 70.746   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | = 141.500%  |          |
| 50) Toluene-d8                | 10.332    | 98    | 27330    | 48.637   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery | = 97.280%   |          |
| 62) 4-Bromofluorobenzene      | 12.626    | 95    | 10517    | 51.674   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery | = 103.340%  |          |
| Target Compounds              |           |       |          |          |             |          |
|                               |           |       |          |          | Qvalue      |          |
| 3) Chloromethane              | 2.209     | 50    | 747      | 4.387    | ug/l        | 98       |
| 5) Bromomethane               | 2.779     | 94    | 1940     | 17.443   | ug/l #      | 77       |
| 10) Methyl Iodide             | 4.314     | 142   | 994      | 8.882    | ug/l #      | 89       |
| 11) Tert butyl alcohol        | 5.197     | 59    | 477      | 18.670   | ug/l #      | 74       |
| 16) Acetone                   | 4.173     | 43    | 72       | 2.409    | ug/l #      | 47       |
| 20) Methylene Chloride        | 4.956     | 84    | 467      | 2.153    | ug/l #      | 38       |
| 25) 2-Butanone                | 7.173     | 43    | 607      | 13.411   | ug/l #      | 52       |
| 26) 2,2-Dichloropropane       | 7.156     | 77    | 497      | 1.808    | ug/l #      | 54       |
| 31) Cyclohexane               | 7.967     | 56    | 491      | 1.650    | ug/l #      | 61       |
| 37) Ethyl Acetate             | 7.173     | 43    | 607      | 5.727    | ug/l #      | 1        |
| 38) Carbon Tetrachloride      | 7.967     | 117   | 1048     | 4.059    | ug/l #      | 13       |
| 39) Methylcyclohexane         | 9.344     | 83    | 338      | 1.149    | ug/l #      | 46       |
| 41) Methacrylonitrile         | 7.638     | 41    | 68       | 1.138    | ug/l #      | 27       |
| 76) 1,2,3-Trichloropropane    | 12.626    | 75    | 6072     | 48.230   | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626    | 75    | 6072     | 117.032  | ug/l #      | 7        |
| 95) Naphthalene               | 15.384    | 128   | 143      | 4.565    | ug/l #      | 70       |
| -----                         |           |       |          |          |             |          |

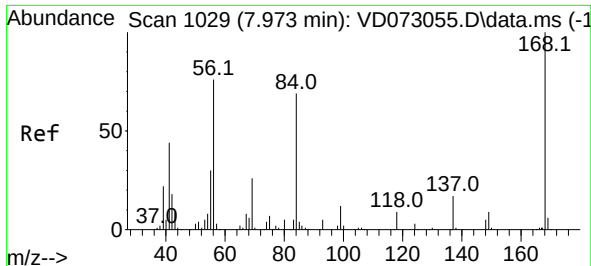
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :  
OK-02-051222

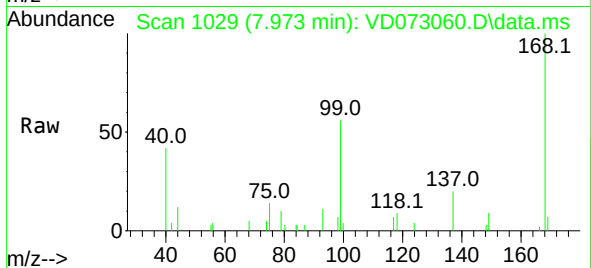
Quant Time: May 17 18:00:59 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051722S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 17 13:03:08 2022  
Response via : Initial Calibration



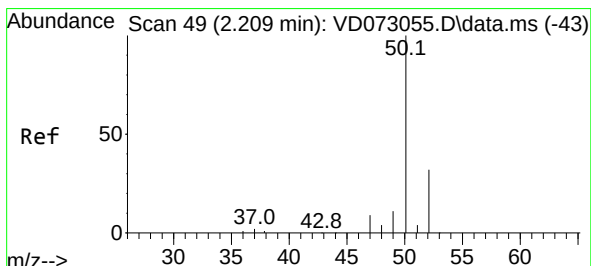
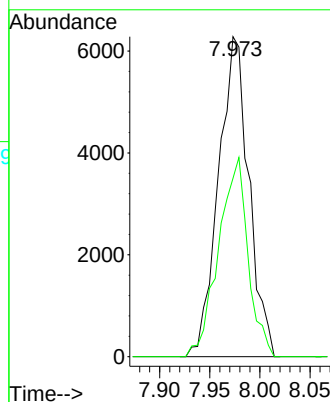
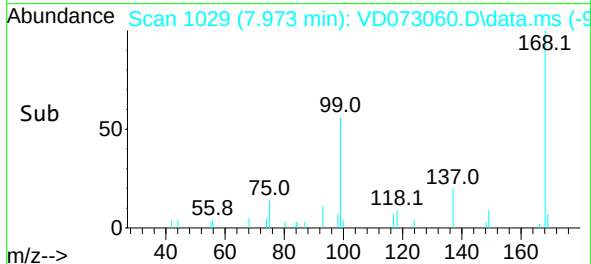


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-051222

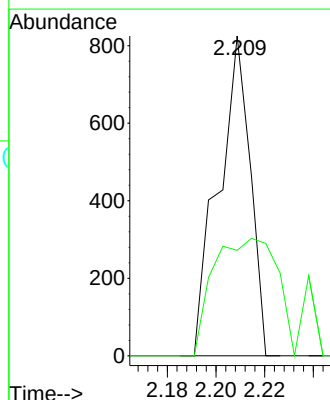
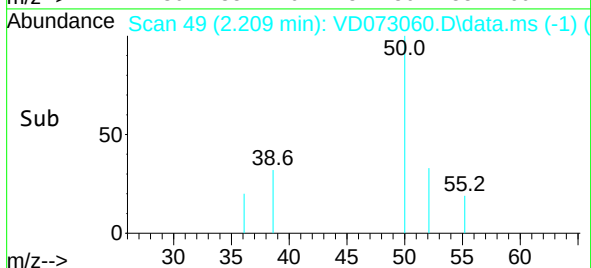
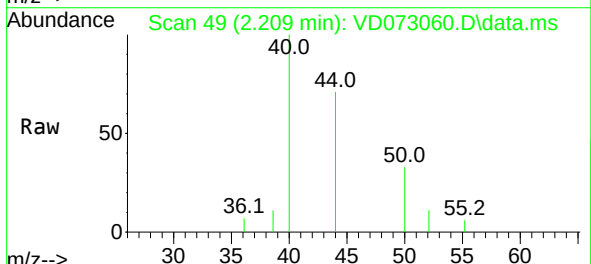


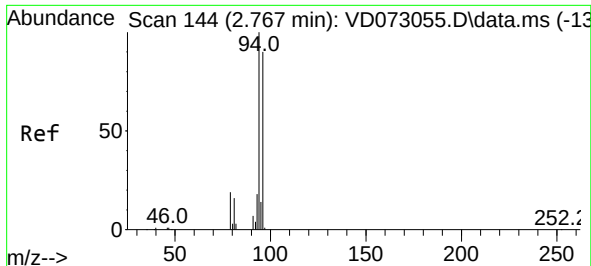
Tgt Ion:168 Resp: 13208  
Ion Ratio Lower Upper  
168 100  
99 55.7 49.8 74.6



#3  
Chloromethane  
Concen: 4.387 ug/l  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Tgt Ion: 50 Resp: 747  
Ion Ratio Lower Upper  
50 100  
52 33.0 27.4 41.0

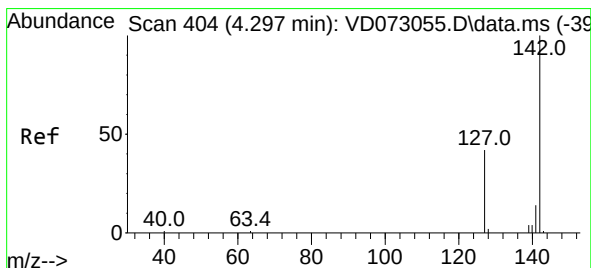
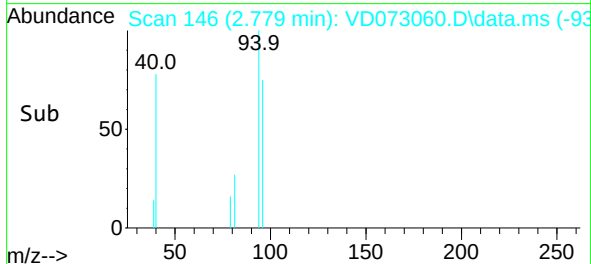
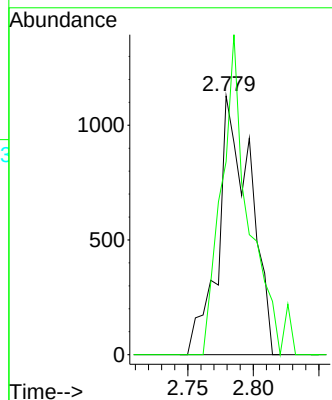
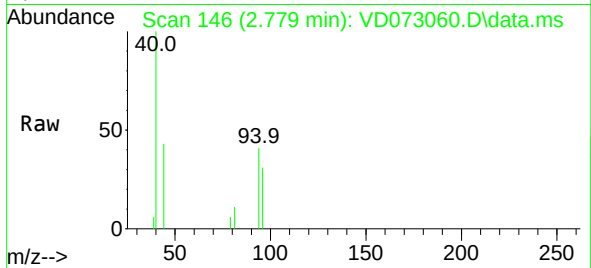




#5  
Bromomethane  
Concen: 17.443 ug/l  
RT: 2.779 min Scan# 144  
Delta R.T. 0.012 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

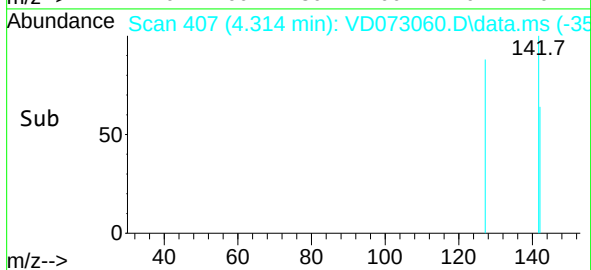
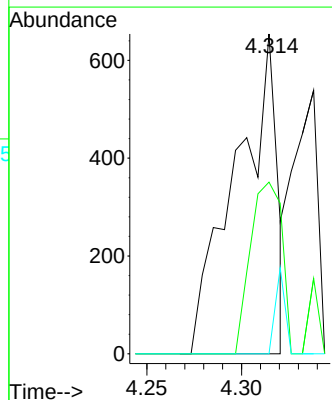
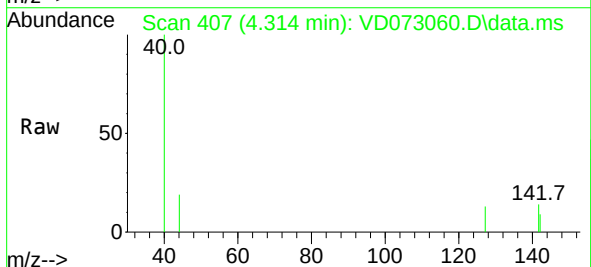
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-051222

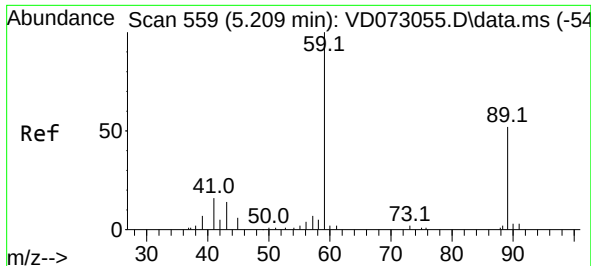
Tgt Ion: 94 Resp: 1940  
Ion Ratio Lower Upper  
94 100  
96 74.6 77.6 116.4#



#10  
Methyl Iodide  
Concen: 8.882 ug/l  
RT: 4.314 min Scan# 407  
Delta R.T. 0.017 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Tgt Ion: 142 Resp: 994  
Ion Ratio Lower Upper  
142 100  
127 40.9 37.3 55.9  
141 6.2 11.7 17.5#





#11

Tert butyl alcohol

Concen: 18.670 ug/l

RT: 5.197 min Scan# 51

Delta R.T. -0.012 min

Lab File: VD073060.D

Acq: 17 May 2022 16:42

Instrument :

MSVOA\_D

ClientSampleId :

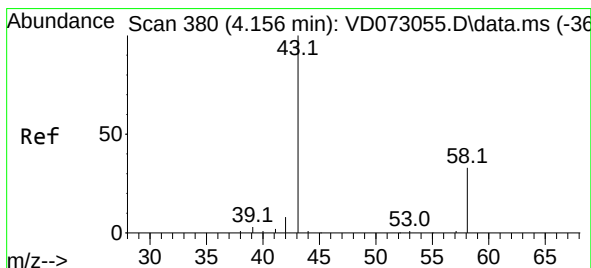
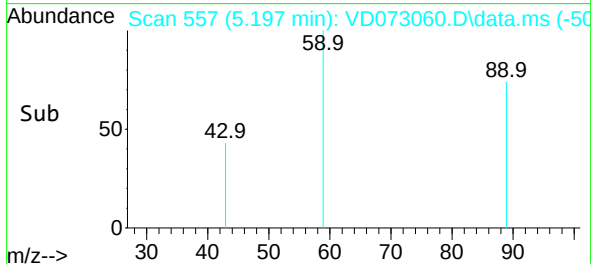
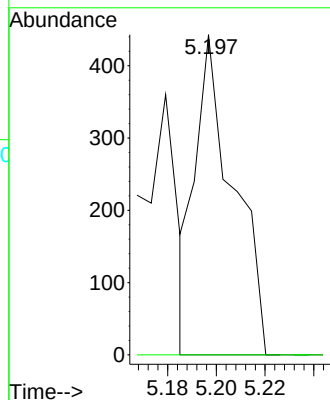
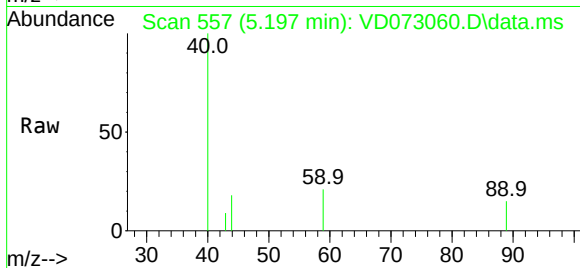
OK-02-051222

Tgt Ion: 59 Resp: 477

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: 2.409 ug/l

RT: 4.173 min Scan# 383

Delta R.T. 0.017 min

Lab File: VD073060.D

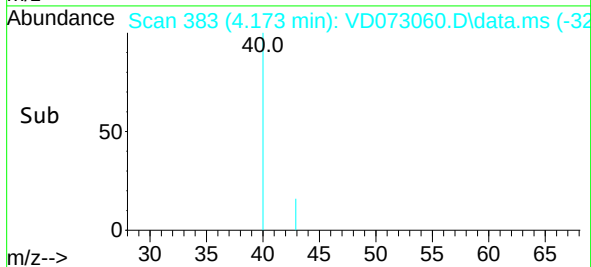
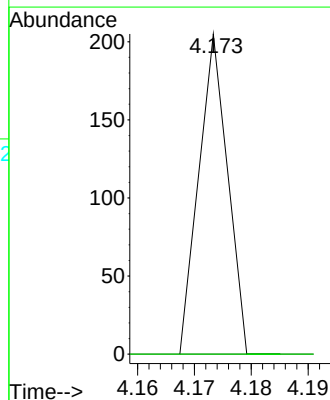
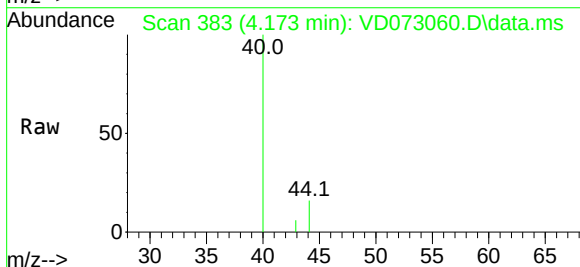
Acq: 17 May 2022 16:42

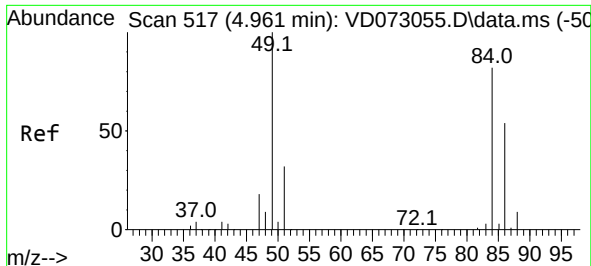
Tgt Ion: 43 Resp: 72

Ion Ratio Lower Upper

43 100

58 0.0 22.1 33.1#

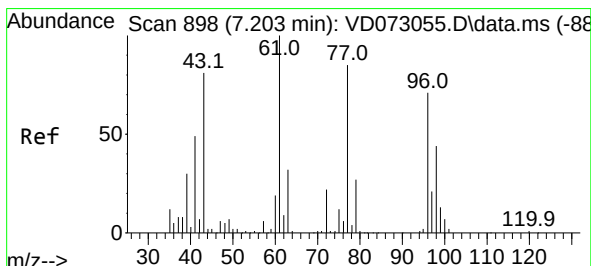
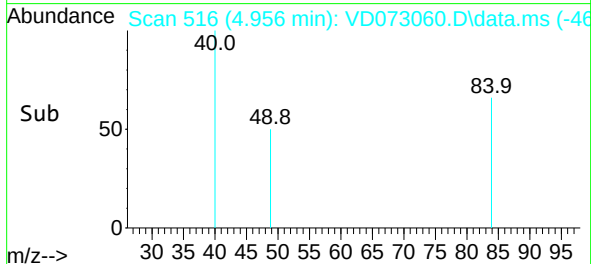
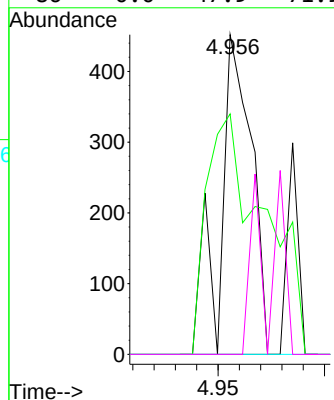
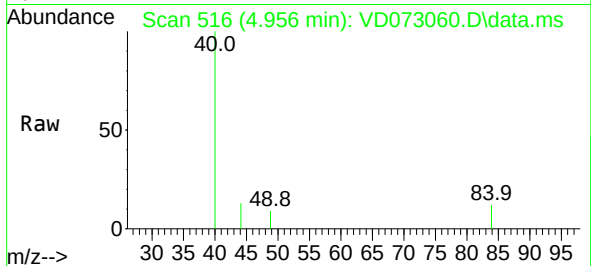




#20  
Methylene Chloride  
Concen: 2.153 ug/l  
RT: 4.956 min Scan# 517  
Delta R.T. -0.005 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

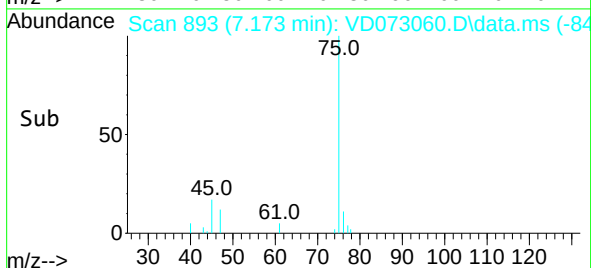
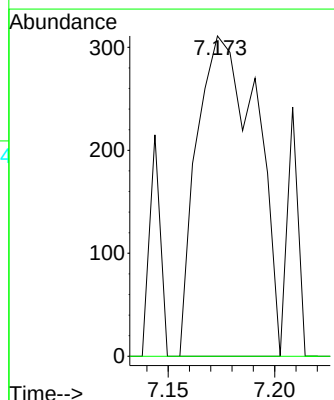
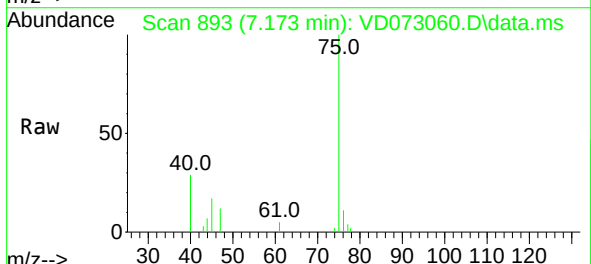
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-051222

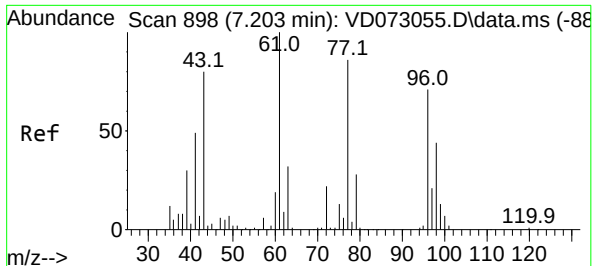
|             |              |
|-------------|--------------|
| Tgt Ion: 84 | Resp: 467    |
| Ion Ratio   | Lower Upper  |
| 84 100      |              |
| 49 75.2     | 112.8 169.2# |
| 51 0.0      | 32.6 48.8#   |
| 86 0.0      | 47.9 71.9#   |



#25  
2-Butanone  
Concen: 13.411 ug/l  
RT: 7.173 min Scan# 893  
Delta R.T. -0.030 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

|             |           |       |  |
|-------------|-----------|-------|--|
| Tgt Ion: 43 | Resp: 607 |       |  |
| Ion Ratio   | Lower     | Upper |  |
| 43 100      |           |       |  |
| 72 0.0      | 18.6      | 27.8# |  |





#26

2,2-Dichloropropane

Concen: 1.808 ug/l

RT: 7.156 min Scan# 89

Delta R.T. -0.047 min

Lab File: VD073060.D

Acq: 17 May 2022 16:42

Instrument :

MSVOA\_D

ClientSampleId :

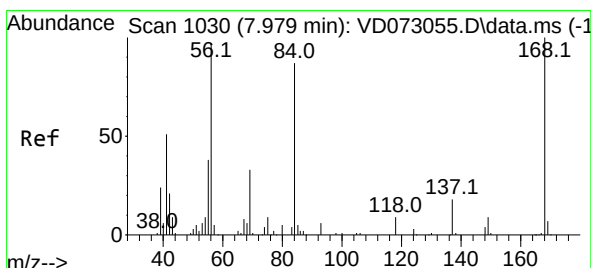
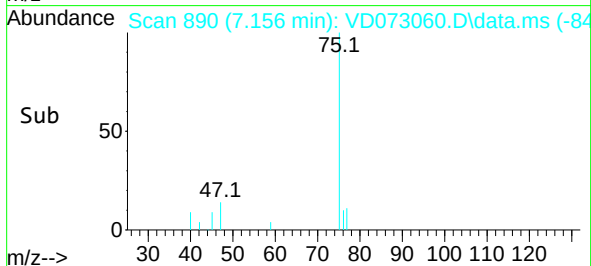
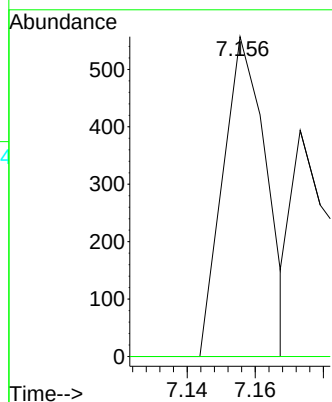
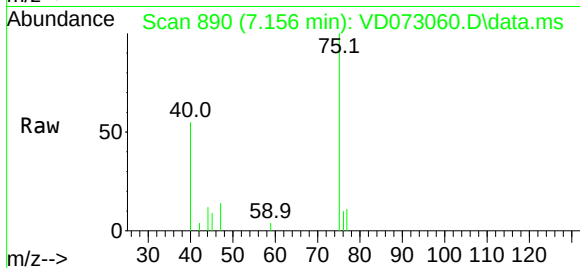
OK-02-051222

Tgt Ion: 77 Resp: 497

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



#31

Cyclohexane

Concen: 1.650 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD073060.D

Acq: 17 May 2022 16:42

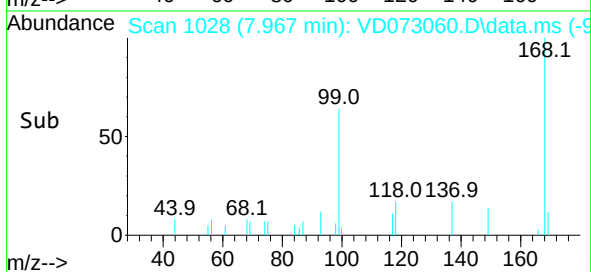
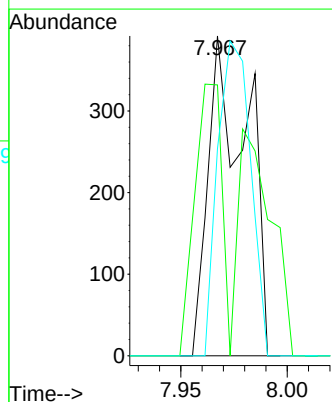
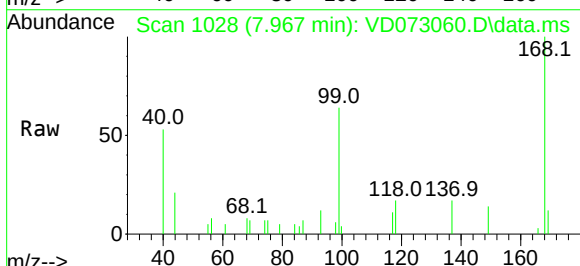
Tgt Ion: 56 Resp: 491

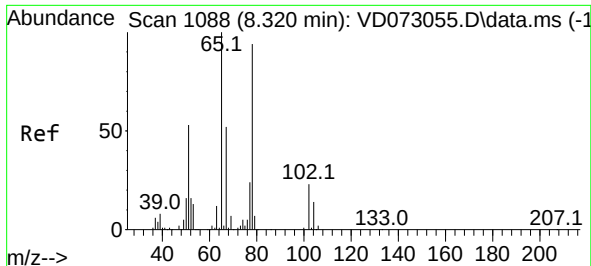
Ion Ratio Lower Upper

56 100

69 84.7 25.4 38.2#

84 64.8 63.0 94.4





#33

1,2-Dichloroethane-d4

Concen: 82.433 ug/l

RT: 8.326 min Scan# 1179

Delta R.T. 0.006 min

Lab File: VD073060.D

Acq: 17 May 2022 16:42

Instrument :

MSVOA\_D

ClientSampleId :

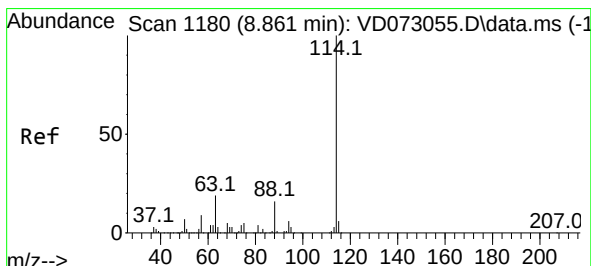
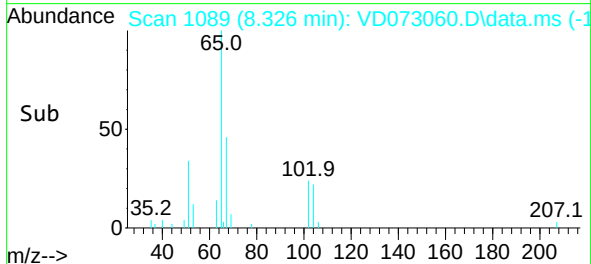
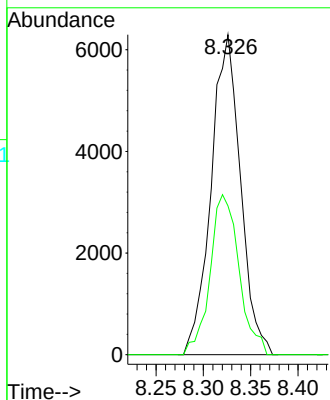
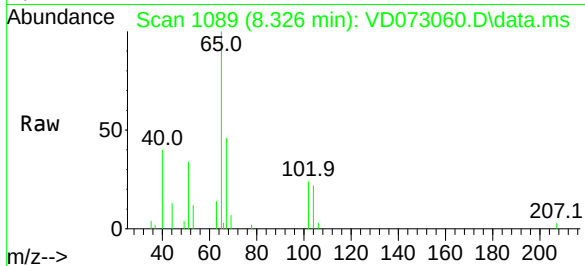
OK-02-051222

Tgt Ion: 65 Resp: 13616

Ion Ratio Lower Upper

65 100

67 49.3 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. -0.006 min

Lab File: VD073060.D

Acq: 17 May 2022 16:42

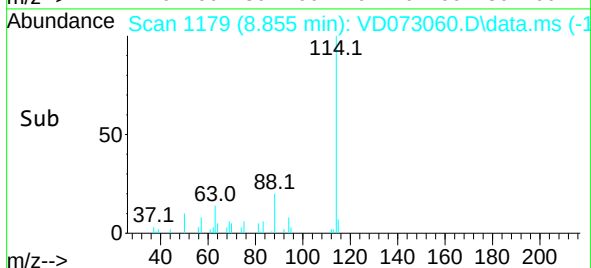
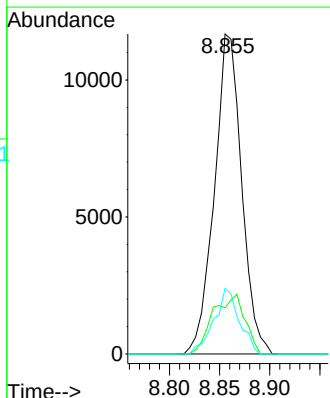
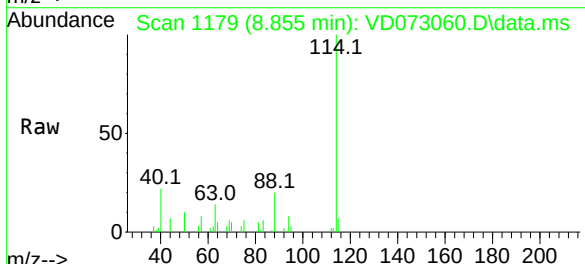
Tgt Ion: 114 Resp: 22061

Ion Ratio Lower Upper

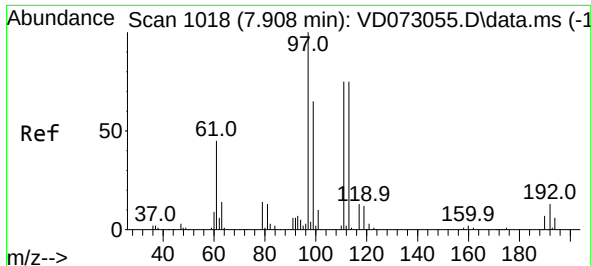
114 100

63 14.5 0.0 46.6

88 20.5 0.0 33.2







#35

Dibromofluoromethane

Concen: 70.746 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073060.D

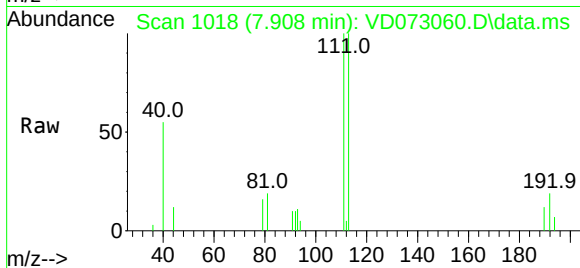
Acq: 17 May 2022 16:42

Instrument :

MSVOA\_D

ClientSampleId :

OK-02-051222



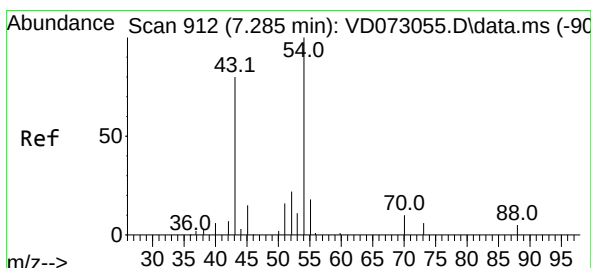
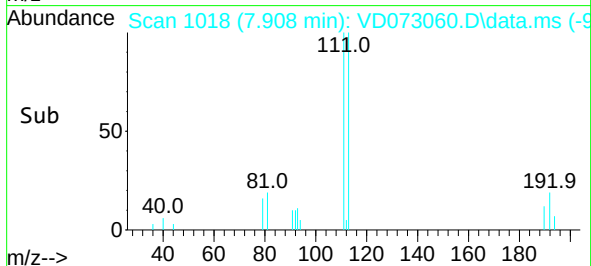
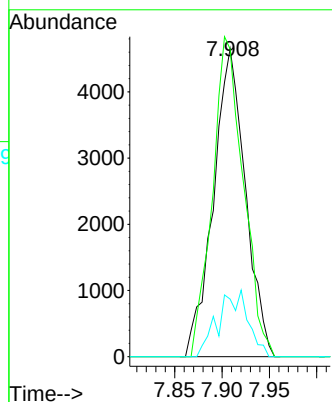
Tgt Ion:113 Resp: 10958

Ion Ratio Lower Upper

113 100

111 99.9 83.8 125.6

192 20.1 14.6 21.8



#37

Ethyl Acetate

Concen: 5.727 ug/l

RT: 7.173 min Scan# 893

Delta R.T. -0.112 min

Lab File: VD073060.D

Acq: 17 May 2022 16:42

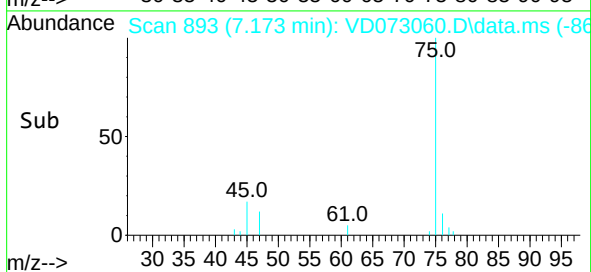
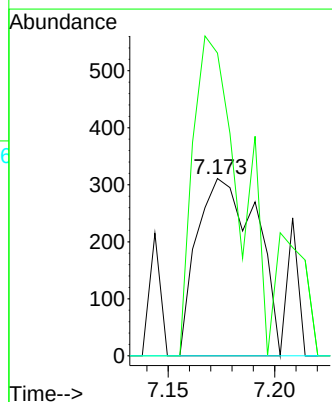
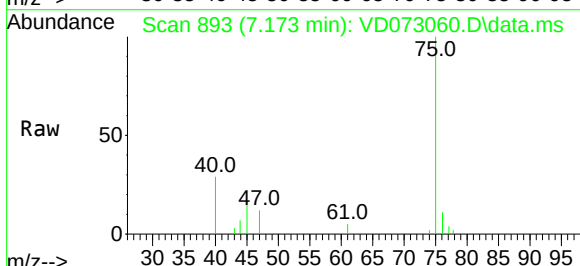
Tgt Ion: 43 Resp: 607

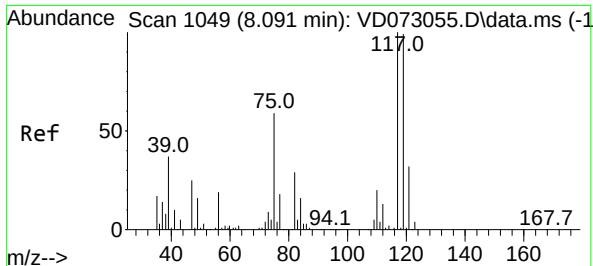
Ion Ratio Lower Upper

43 100

61 140.2 9.8 14.8#

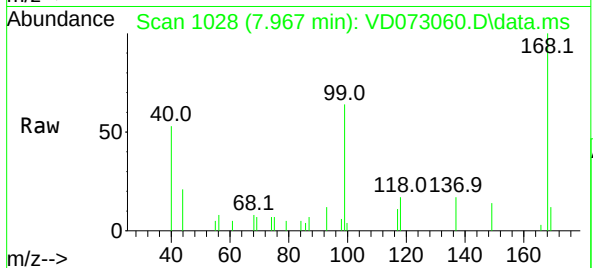
70 0.0 6.9 10.3#



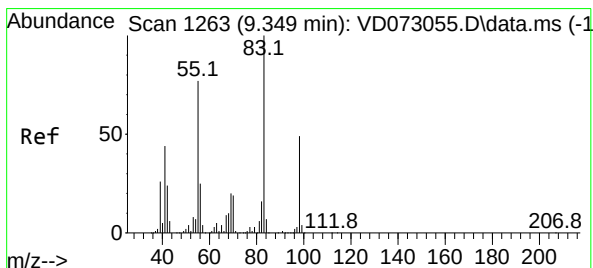
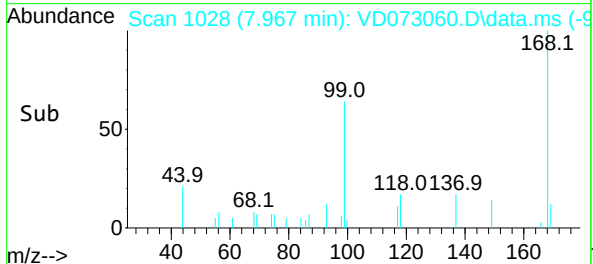
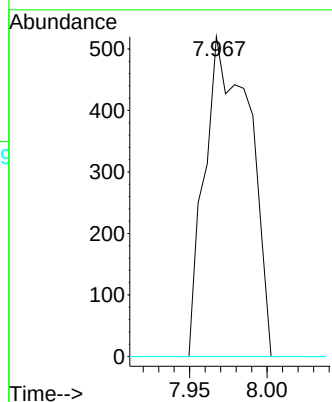


#38  
Carbon Tetrachloride  
Concen: 4.059 ug/l  
RT: 7.967 min Scan# 1048  
Delta R.T. -0.124 min  
Lab File: VD073060.D  
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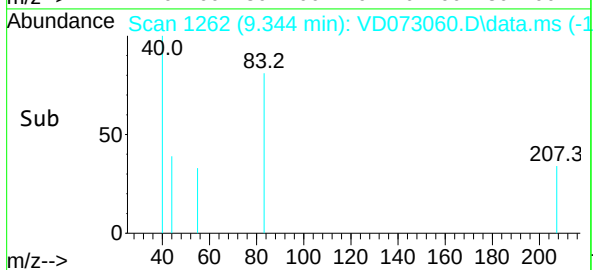
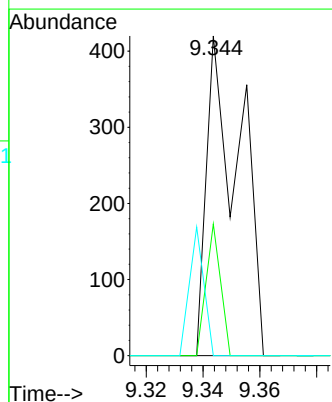
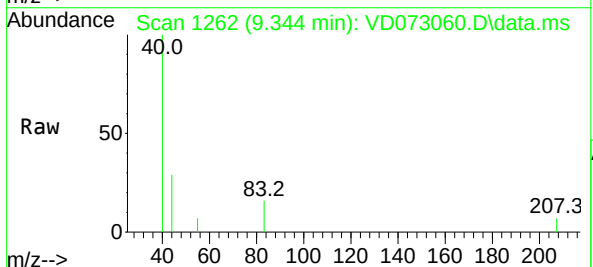


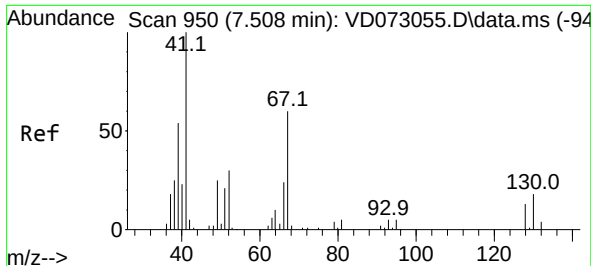
Tgt Ion:117 Resp: 1048  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 24.5 36.7#



#39  
Methylcyclohexane  
Concen: 1.149 ug/l  
RT: 9.344 min Scan# 1262  
Delta R.T. -0.005 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Tgt Ion: 83 Resp: 338  
Ion Ratio Lower Upper  
83 100  
55 41.2 63.2 94.8#  
98 0.0 38.2 57.4#

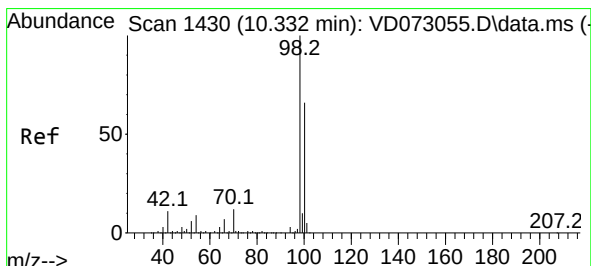
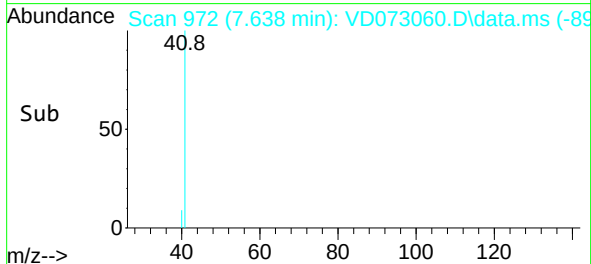
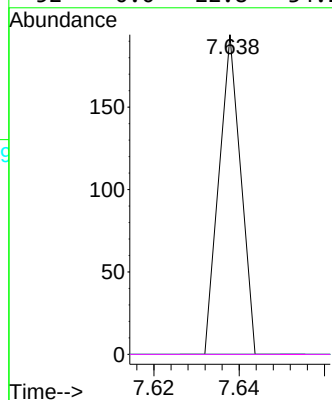
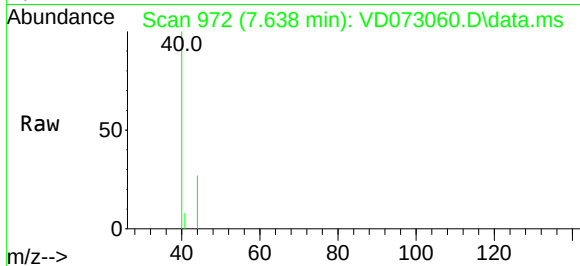




#41  
Methacrylonitrile  
Concen: 1.138 ug/l  
RT: 7.638 min Scan# 91  
Delta R.T. 0.130 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

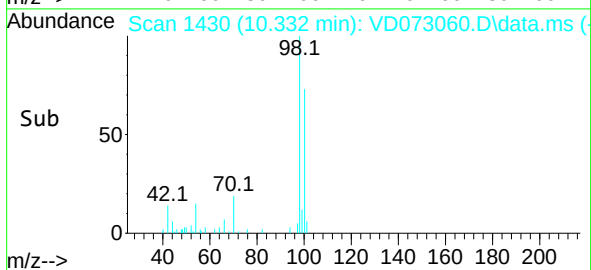
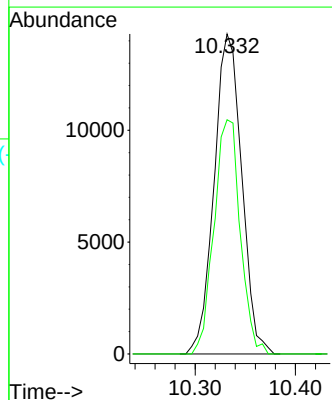
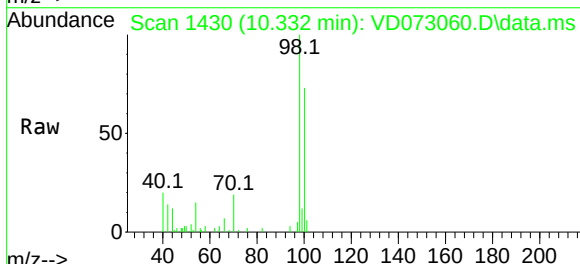
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-051222

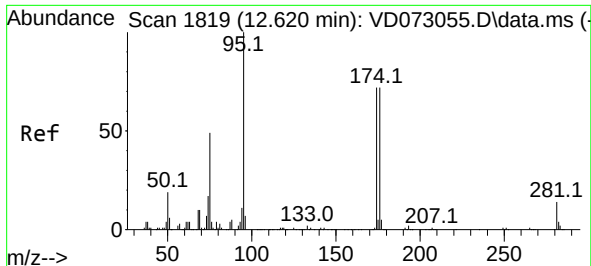
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 68    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 44.6  | 67.0# |
| 67       | 0.0   | 48.2  | 72.4# |
| 52       | 0.0   | 22.8  | 34.2# |



#50  
Toluene-d8  
Concen: 48.637 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 27330 |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 69.4  | 52.4  | 78.6  |

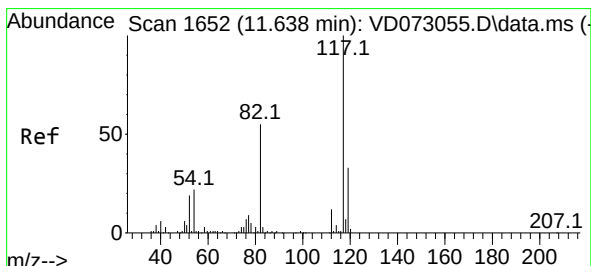
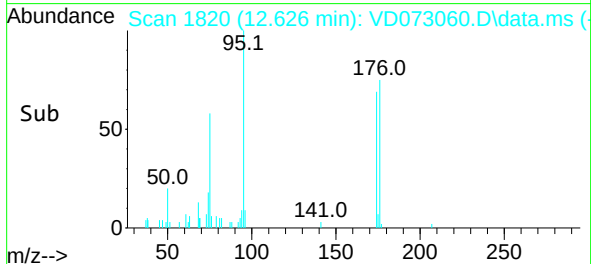
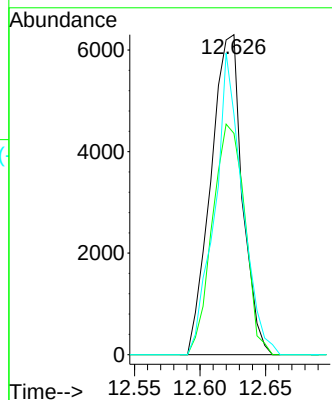
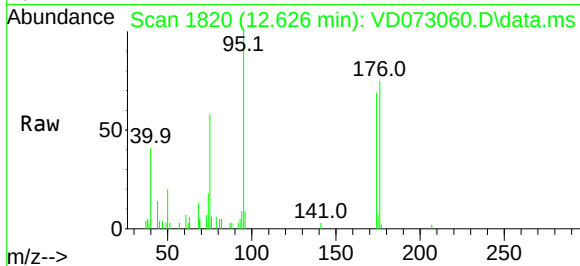




#62  
4-Bromofluorobenzene  
Concen: 51.674 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.006 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

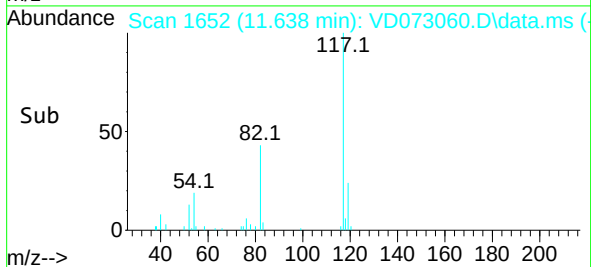
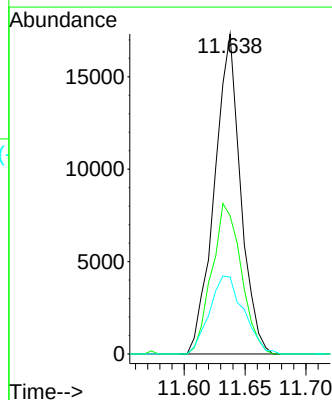
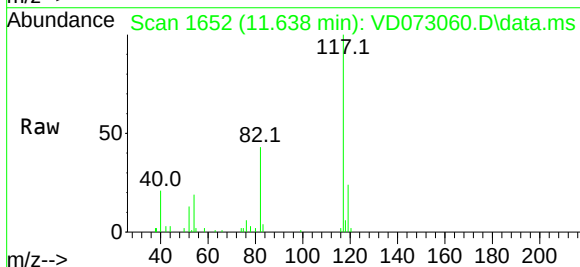
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-051222

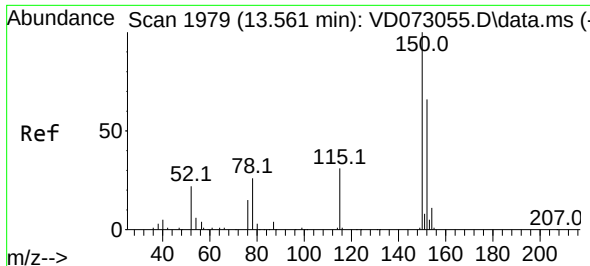
Tgt Ion: 95 Resp: 10517  
Ion Ratio Lower Upper  
95 100  
174 74.1 0.0 152.8  
176 82.7 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Tgt Ion: 117 Resp: 25910  
Ion Ratio Lower Upper  
117 100  
82 43.2 45.3 67.9#  
119 24.1 26.6 40.0#

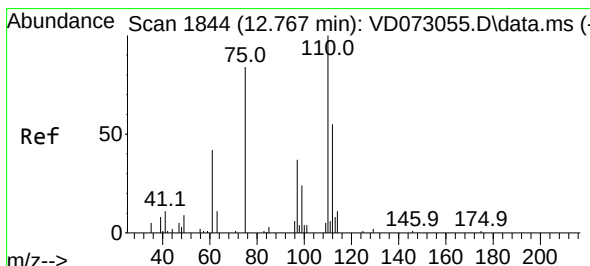
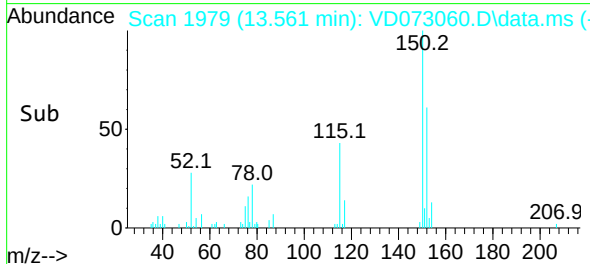
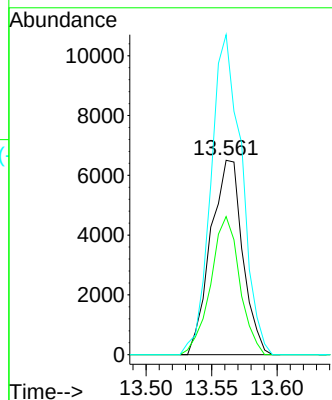
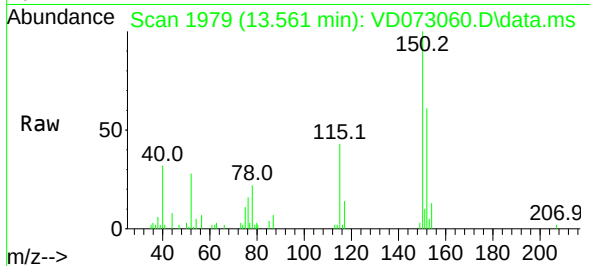




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VD073060.D  
 Acq: 17 May 2022 16:42

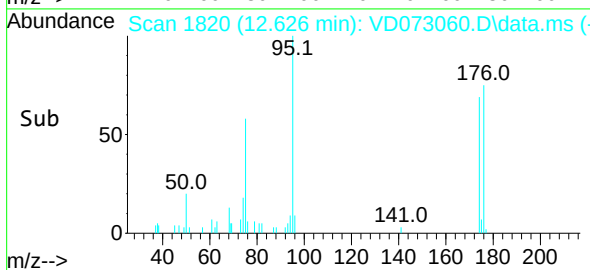
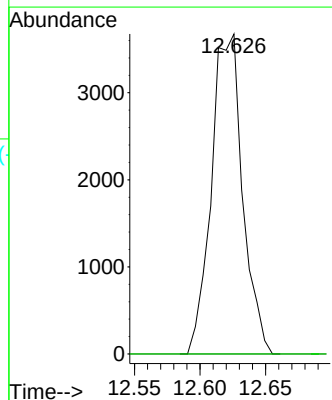
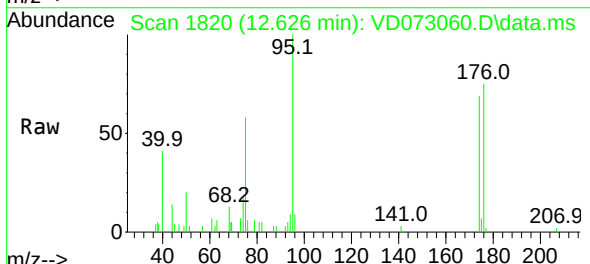
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OK-02-051222

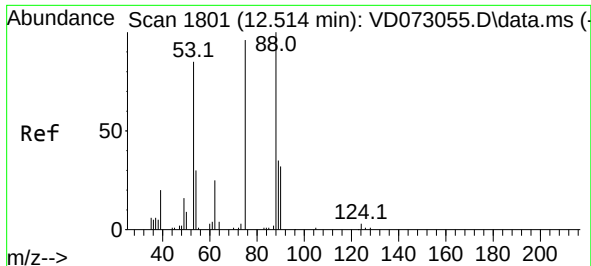
Tgt Ion:152 Resp: 11005  
 Ion Ratio Lower Upper  
 152 100  
 115 64.5 31.3 93.8  
 150 158.1 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 48.230 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.141 min  
 Lab File: VD073060.D  
 Acq: 17 May 2022 16:42

Tgt Ion: 75 Resp: 6072  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0

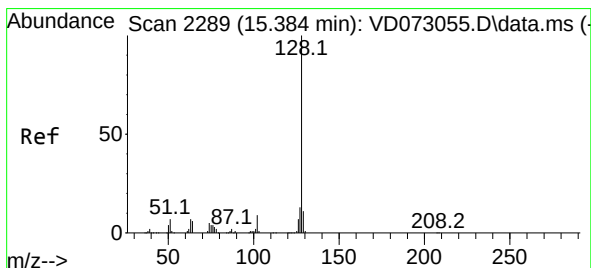
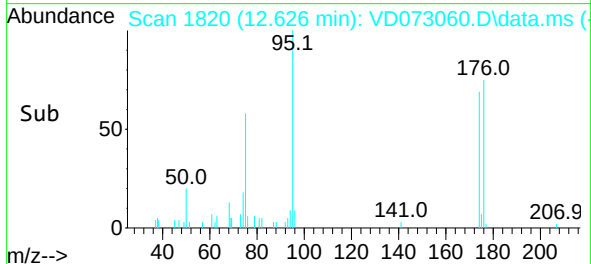
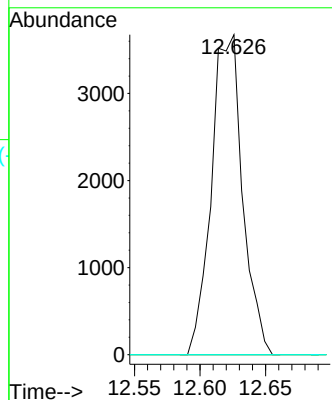
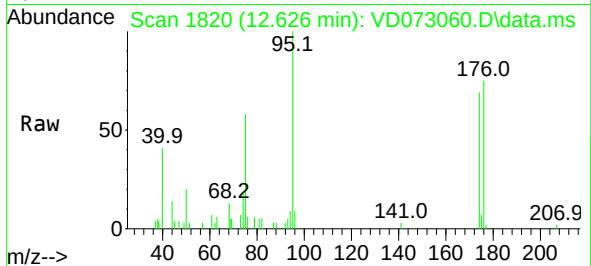




#81  
trans-1,4-Dichloro-2-butene  
Concen: 117.032 ug/l  
RT: 12.626 min Scan# 1801  
Delta R.T. 0.112 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-051222

Tgt Ion: 75 Resp: 6072  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 33.9 50.9#



#95  
Naphthalene  
Concen: 4.565 ug/l  
RT: 15.384 min Scan# 2289  
Delta R.T. 0.000 min  
Lab File: VD073060.D  
Acq: 17 May 2022 16:42

Tgt Ion: 128 Resp: 143  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.4 12.6#

