

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY040122\  
 Data File : VY008171.D  
 Acq On : 01 Apr 2022 19:11  
 Operator : SY/MD  
 Sample : N2220-14  
 Misc : 4.35g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 A06015

Quant Time: Apr 02 03:59:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032522S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 03:24:51 2022  
 Response via : Initial Calibration

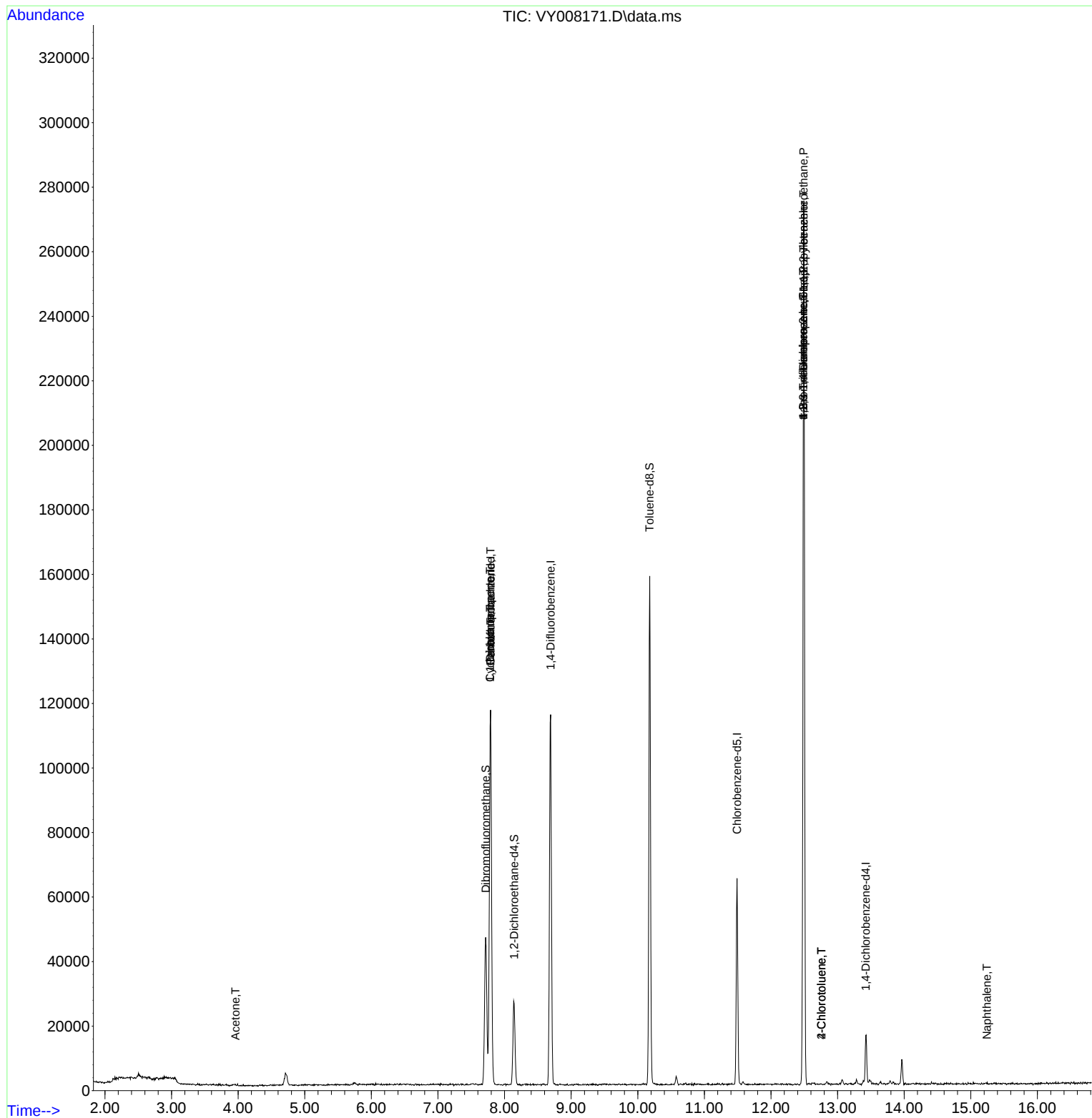
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 90231      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 105965     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 35468      | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 4058       | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143          | 65   | 19485      | 21.524    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 43.040%#  |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 33107      | 49.832    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 99.660%   |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 105512     | 42.154    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 84.300%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 7281       | 8.245     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 16.500%#  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 16) Acetone                   | 3.960          | 43   | 648        | 3.132     | ug/l # | 47       |
| 18) Methyl Acetate            | 4.479          | 43   | 240        | Below Cal | #      | 56       |
| 20) Methylene Chloride        | 4.710          | 84   | 2926       | Below Cal | #      | 75       |
| 31) Cyclohexane               | 7.783          | 56   | 1748       | 1.033     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 7057       | 6.762     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 9414       | 8.278     | ug/l # | 15       |
| 73) Isopropylbenzene          | 12.489         | 105  | 791        | 2.362     | ug/l # | 42       |
| 75) 1,1,2,2-Tetrachloroethane | 12.489         | 83   | 68         | 1.044     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 6428       | 129.945   | ug/l # | 100      |
| 79) 2-Chlorotoluene           | 12.758         | 91   | 259        | 1.182     | ug/l # | 41       |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 6428       | 289.927   | ug/l # | 14       |
| 82) 4-Chlorotoluene           | 12.758         | 91   | 259        | 1.152     | ug/l # | 41       |
| 95) Naphthalene               | 15.239         | 128  | 344        | 1.937     | ug/l # | 69       |
| -----                         |                |      |            |           |        |          |

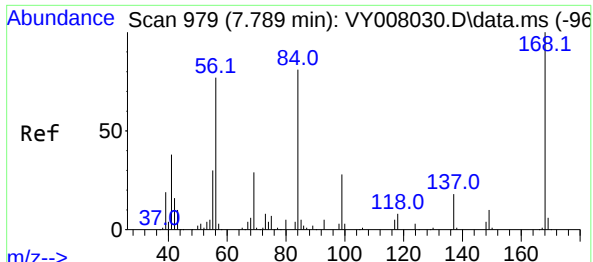
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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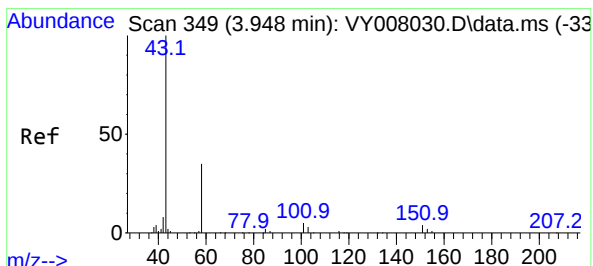
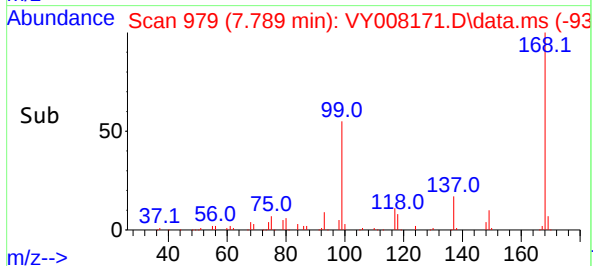
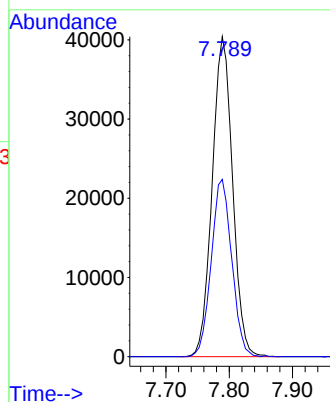
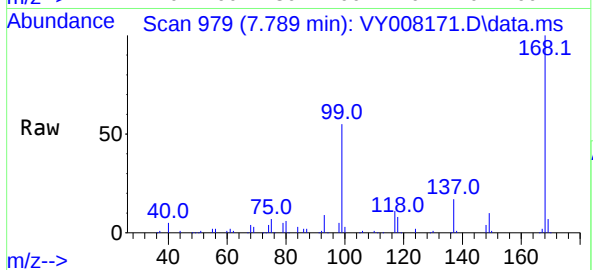




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

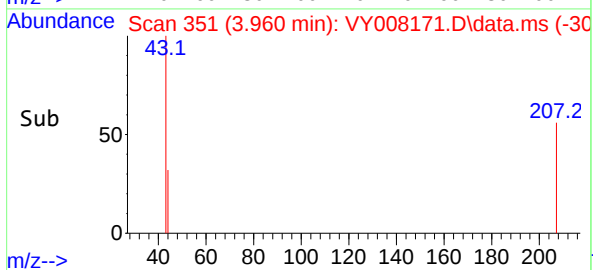
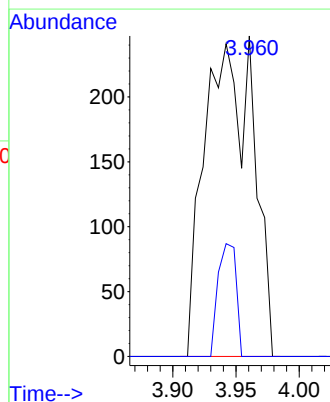
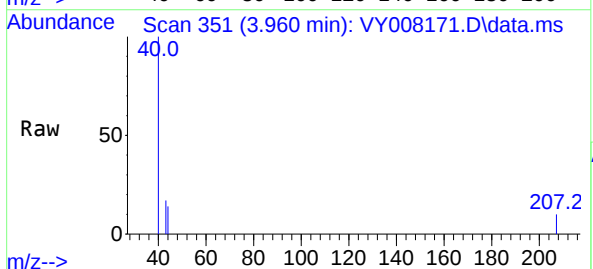
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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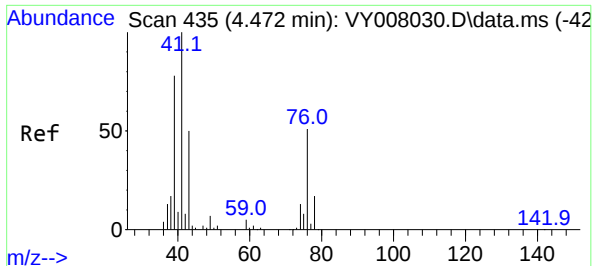
Tgt Ion:168 Resp: 90231  
Ion Ratio Lower Upper  
168 100  
99 55.4 46.9 70.3



#16  
Acetone  
Concen: 3.132 ug/l  
RT: 3.960 min Scan# 351  
Delta R.T. 0.012 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

Tgt Ion: 43 Resp: 648  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.0 33.0#

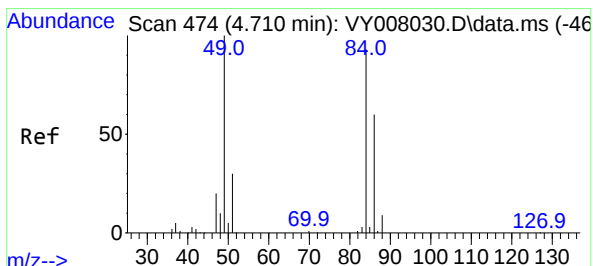
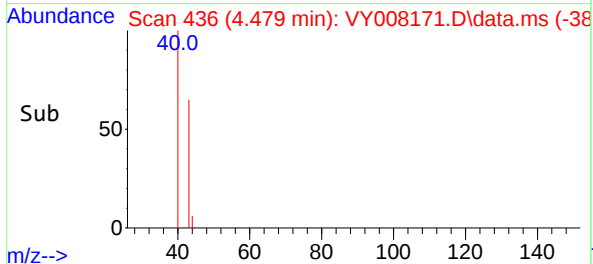
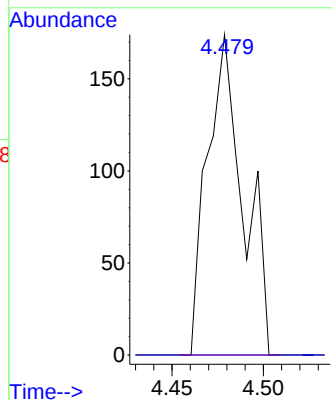
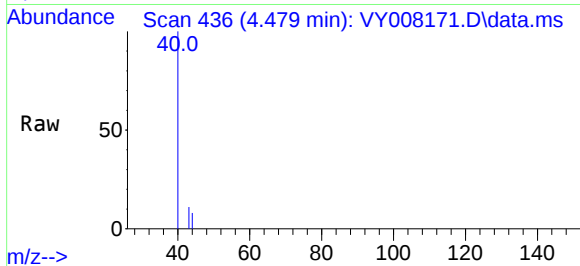




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.479 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

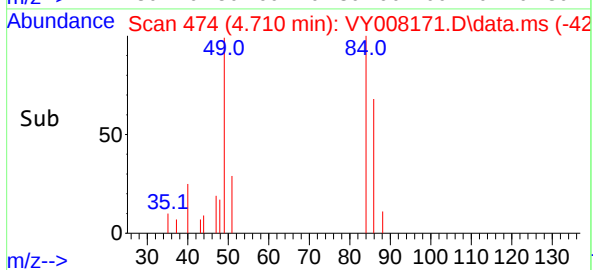
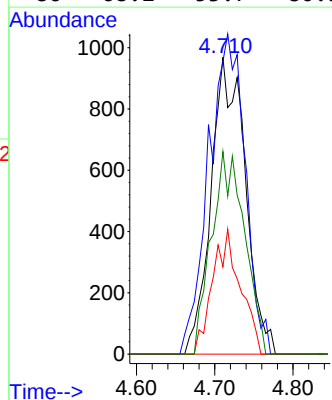
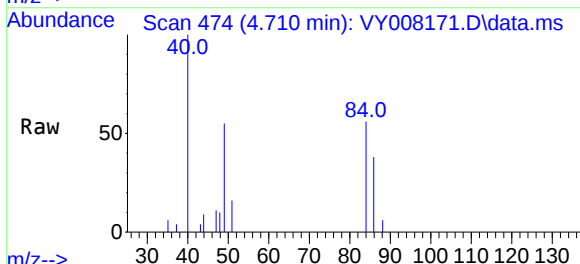
Instrument :  
MSVOA\_Y  
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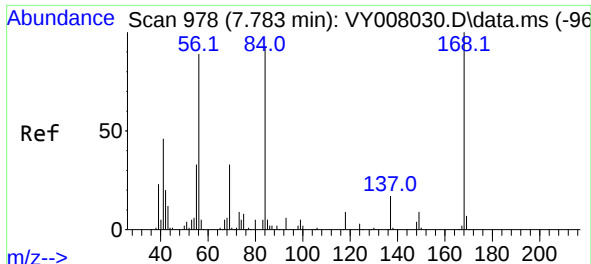
Tgt Ion: 43 Resp: 240  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.710 min Scan# 474  
Delta R.T. 0.000 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

Tgt Ion: 84 Resp: 2926  
Ion Ratio Lower Upper  
84 100  
49 98.6 114.4 171.6#  
51 29.4 35.3 52.9#  
86 68.2 53.7 80.5

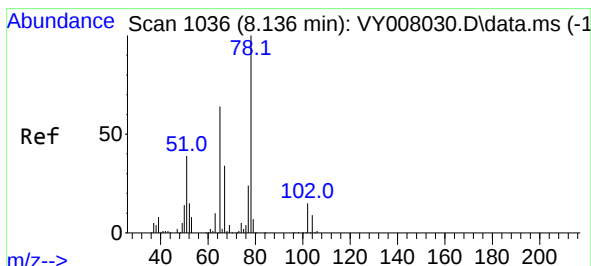
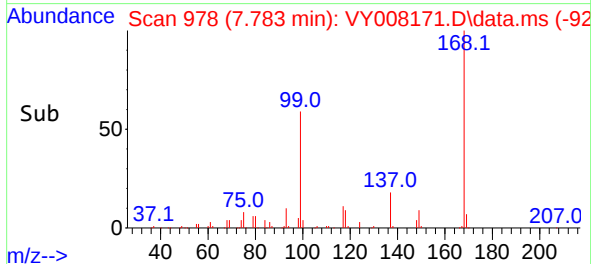
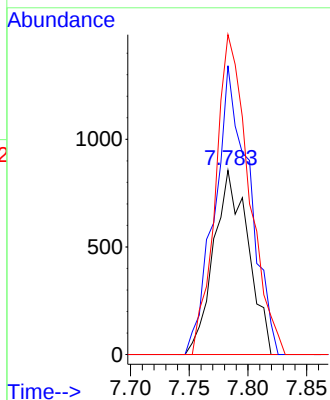
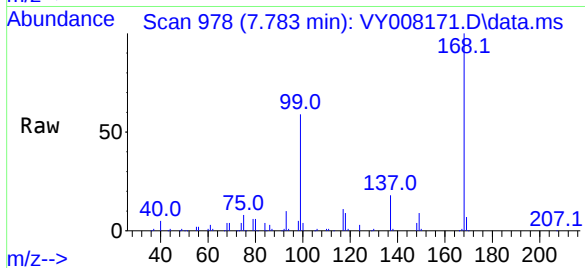




#31  
Cyclohexane  
Concen: 1.033 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

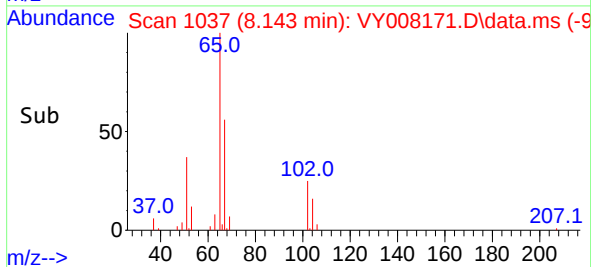
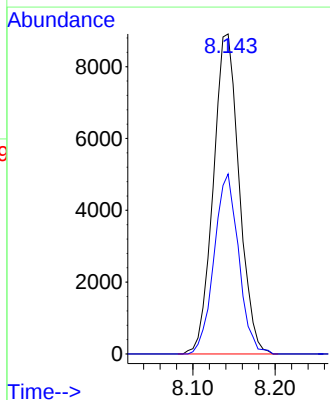
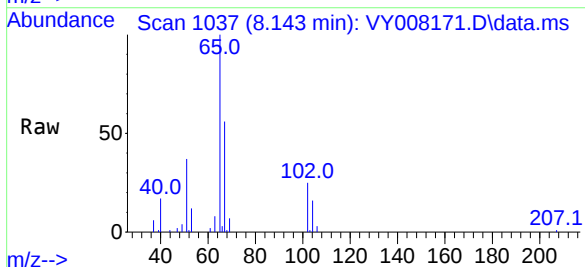
Instrument :  
MSVOA\_Y  
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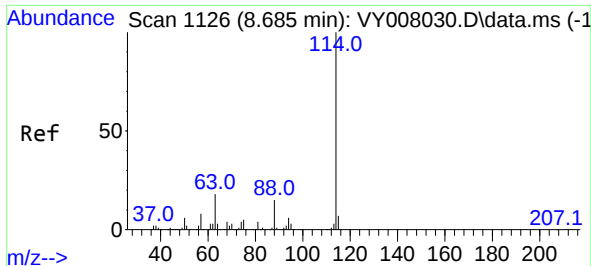
Tgt Ion: 56 Resp: 1748  
Ion Ratio Lower Upper  
56 100  
69 156.8 26.7 40.1#  
84 173.6 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 21.524 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.007 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

Tgt Ion: 65 Resp: 19485  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY008171.D

Acq: 01 Apr 2022 19:11

Instrument :

MSVOA\_Y

ClientSampleId :

A06015

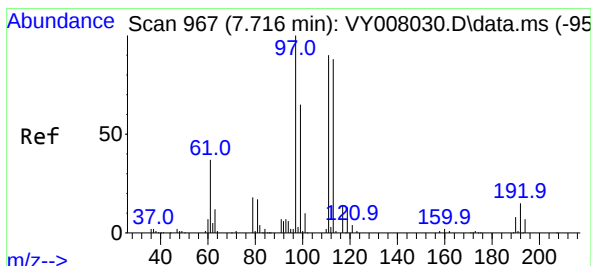
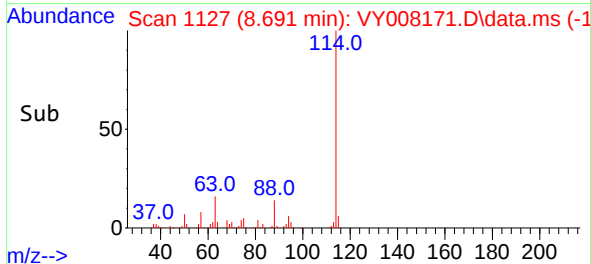
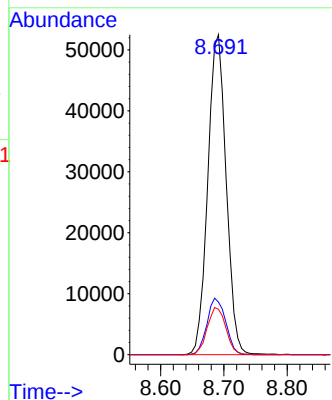
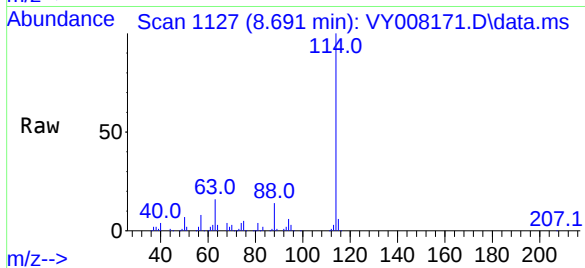
Tgt Ion:114 Resp: 105965

Ion Ratio Lower Upper

114 100

63 16.4 0.0 43.2

88 14.2 0.0 31.8



#35

Dibromofluoromethane

Concen: 49.832 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY008171.D

Acq: 01 Apr 2022 19:11

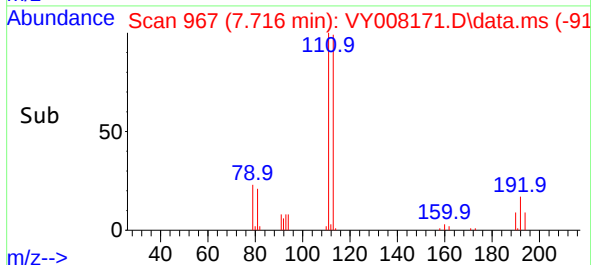
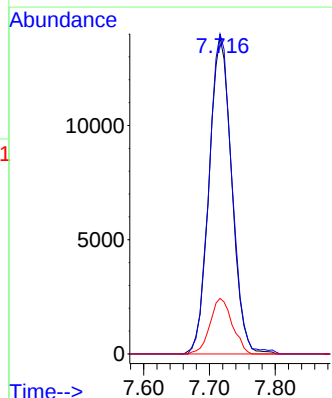
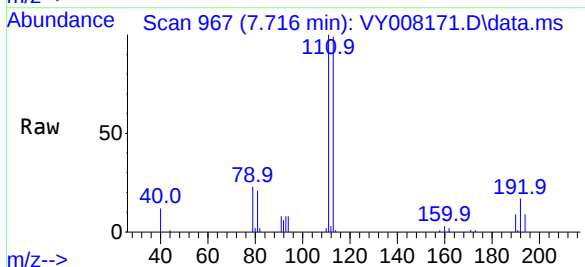
Tgt Ion:113 Resp: 33107

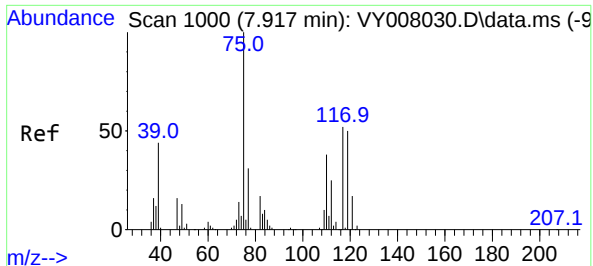
Ion Ratio Lower Upper

113 100

111 102.2 82.6 124.0

192 17.3 17.6 26.4#





#36

1,1-Dichloropropene

Concen: 6.762 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY008171.D

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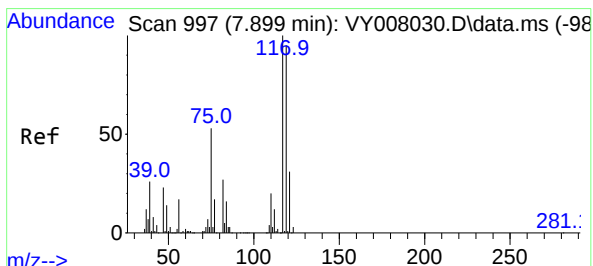
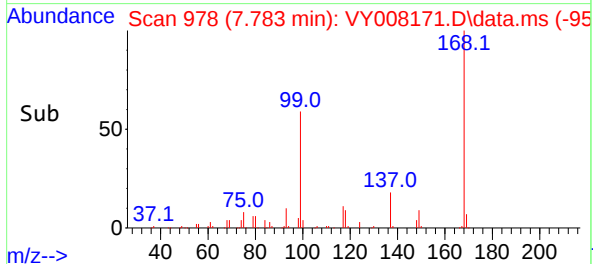
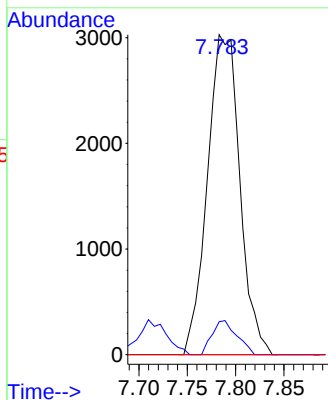
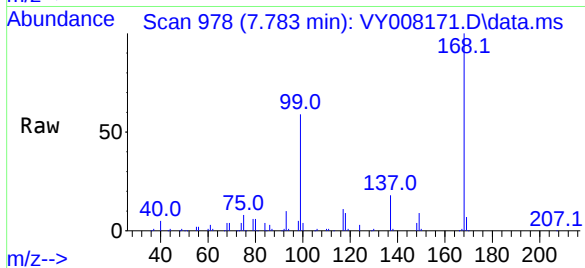
Tgt Ion: 75 Resp: 7057

Ion Ratio Lower Upper

75 100

110 8.2 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 8.278 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY008171.D

Acq: 01 Apr 2022 19:11

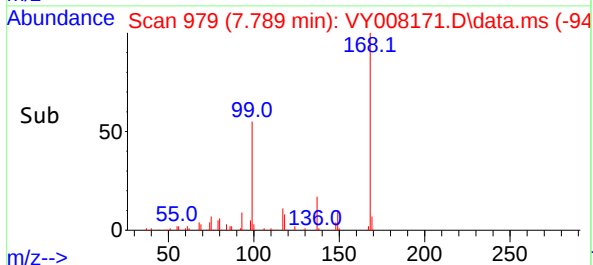
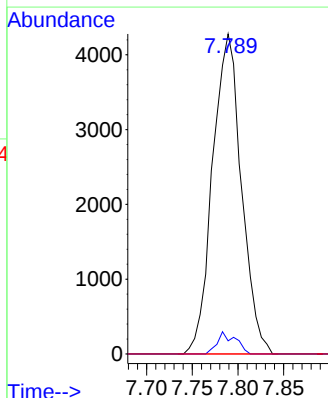
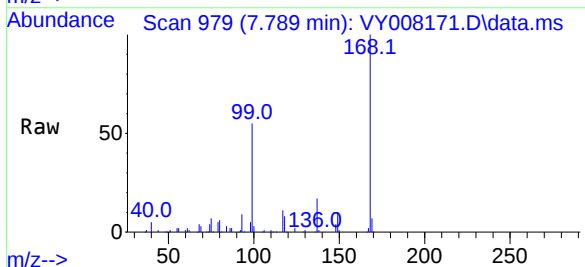
Tgt Ion: 117 Resp: 9414

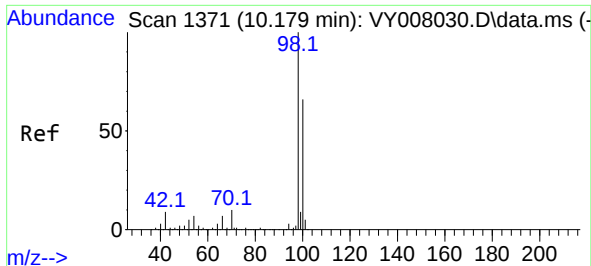
Ion Ratio Lower Upper

117 100

119 4.1 77.9 116.9#

121 0.0 24.8 37.2#

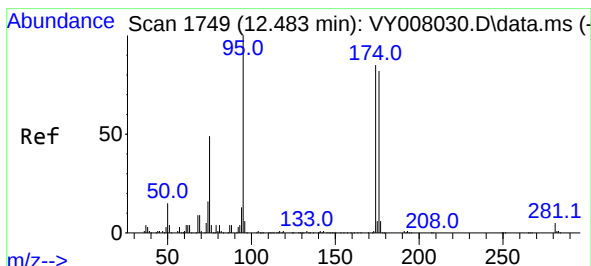
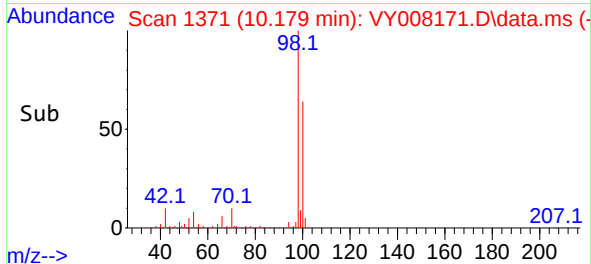
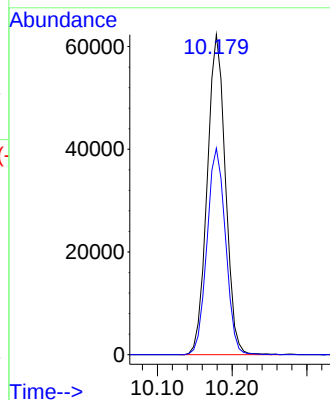
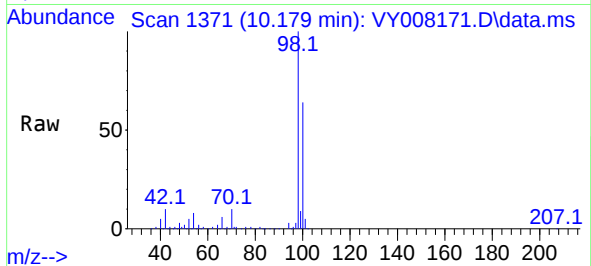




#50  
Toluene-d8  
Concen: 42.154 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

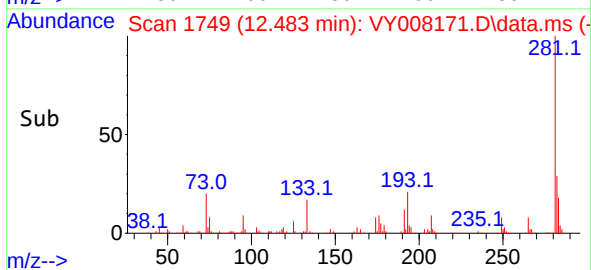
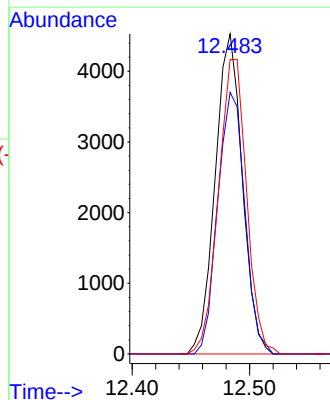
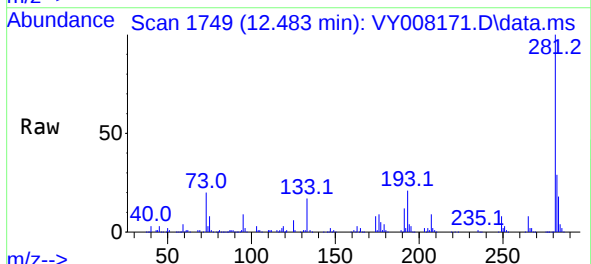
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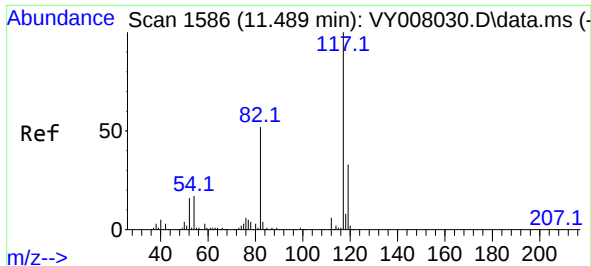
Tgt Ion: 98 Resp: 105512  
Ion Ratio Lower Upper  
98 100  
100 65.5 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 8.245 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

Tgt Ion: 95 Resp: 7281  
Ion Ratio Lower Upper  
95 100  
174 81.5 0.0 177.0  
176 95.3 0.0 175.8

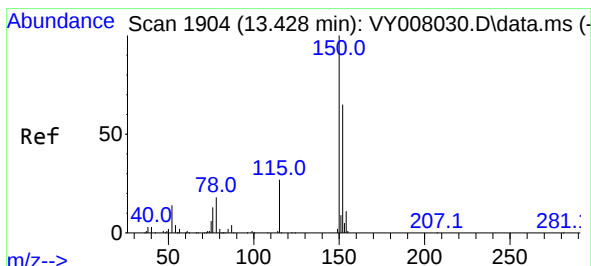
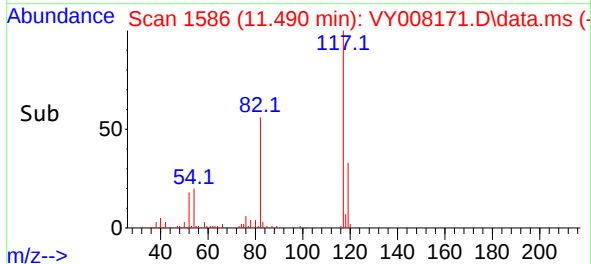
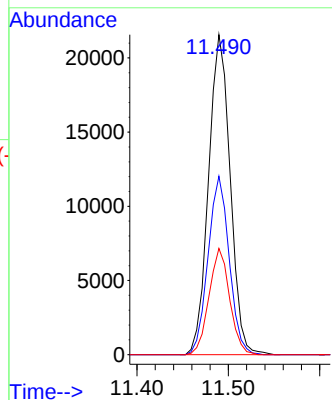
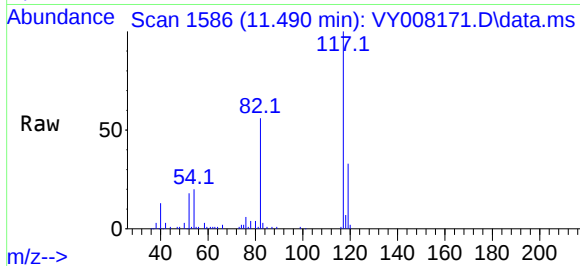




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. 0.001 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

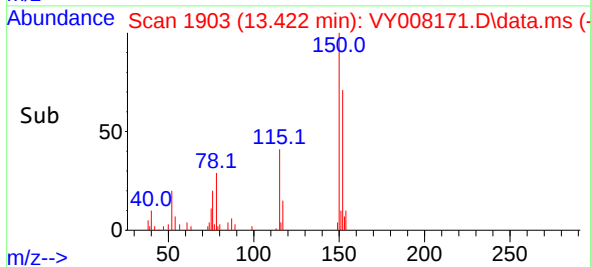
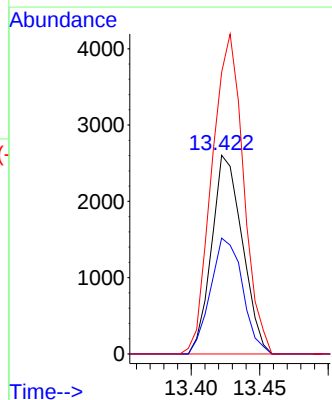
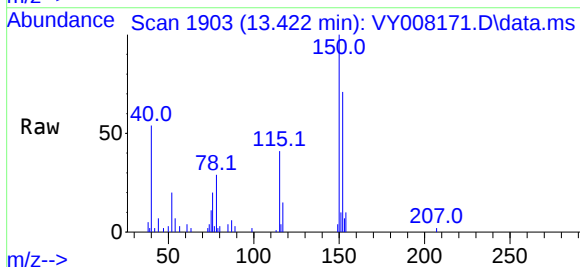
Instrument :  
MSVOA\_Y  
ClientSampleId :  
A06015

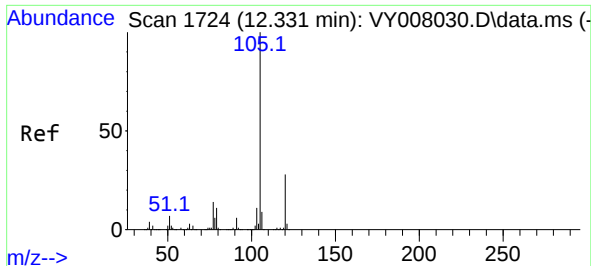
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 35468 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 55.8  | 43.0  | 64.4  |
| 119       | 33.2  | 25.4  | 38.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 4058  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 115       | 60.8  | 28.2  | 84.7  |
| 150       | 165.5 | 0.0   | 347.6 |

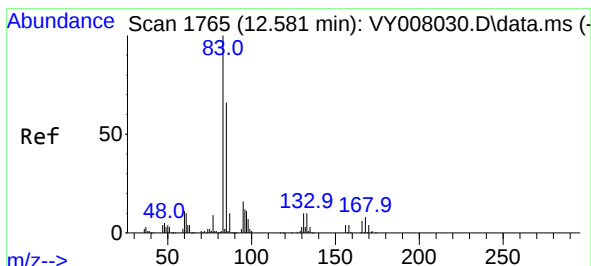
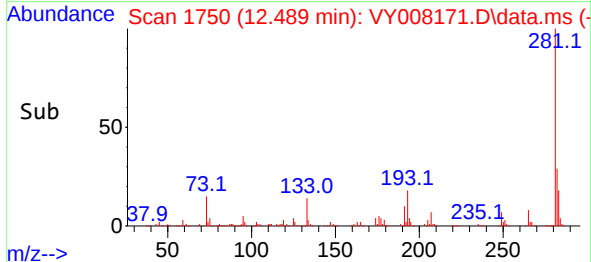
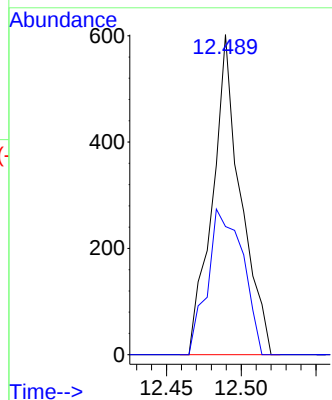
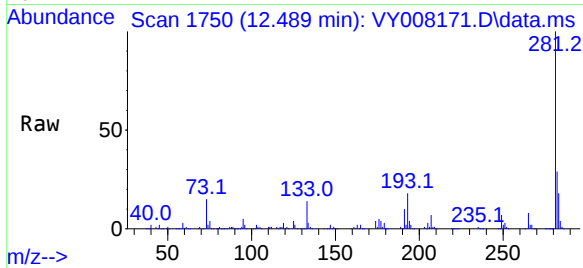




#73  
Isopropylbenzene  
Concen: 2.362 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.158 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

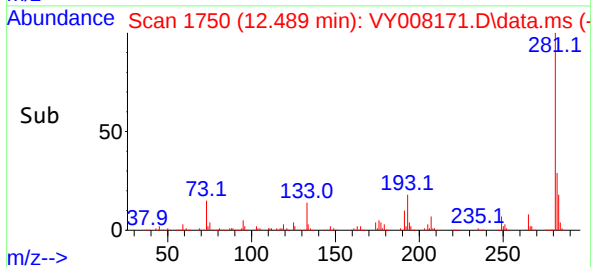
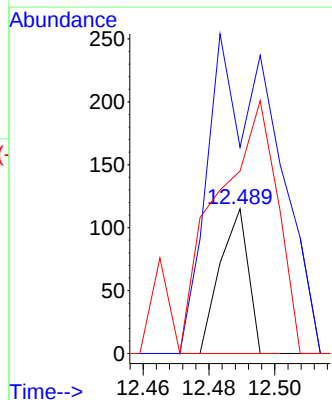
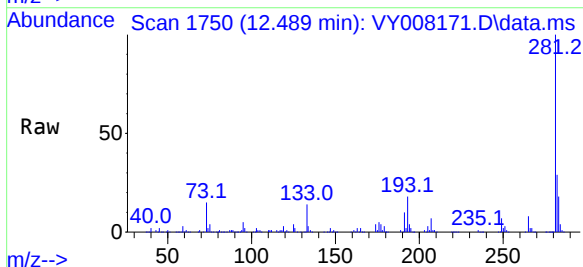
Instrument :  
MSVOA\_Y  
ClientSampleId :  
A06015

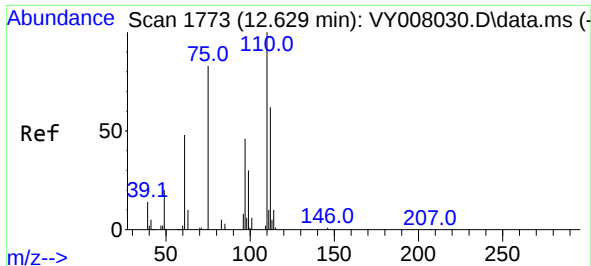
Tgt Ion:105 Resp: 791  
Ion Ratio Lower Upper  
105 100  
120 56.5 13.4 40.2#



#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.044 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. -0.092 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

Tgt Ion: 83 Resp: 68  
Ion Ratio Lower Upper  
83 100  
131 530.9 5.6 16.8#  
85 416.2 32.3 96.8#

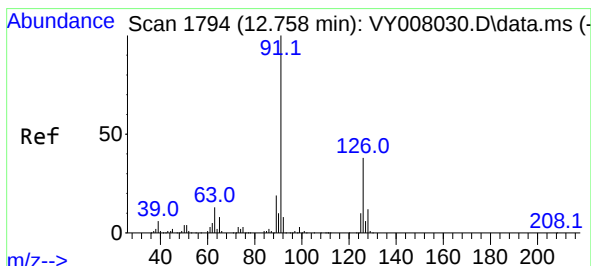
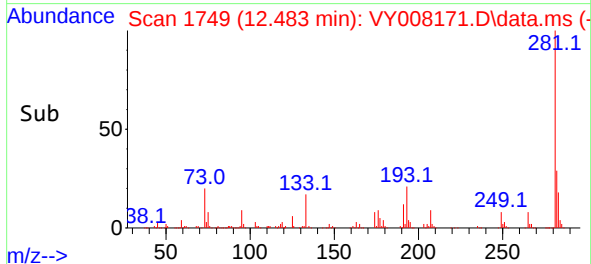
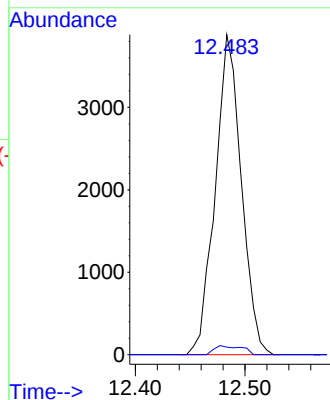
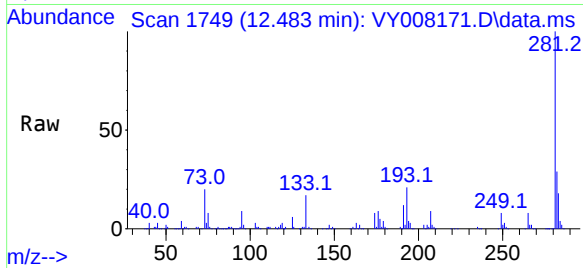




#76  
1,2,3-Trichloropropane  
Concen: 129.945 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. -0.146 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

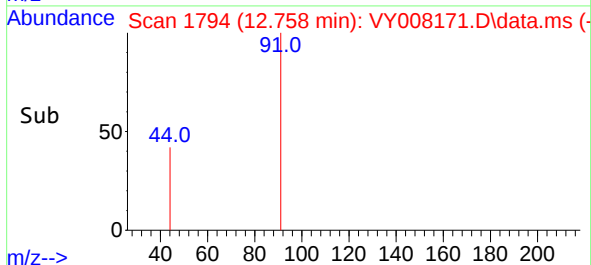
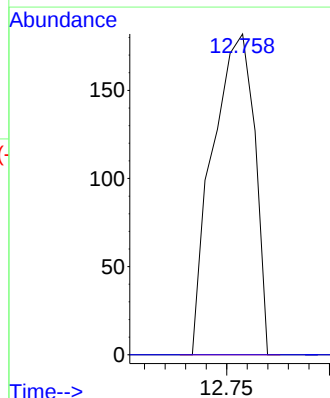
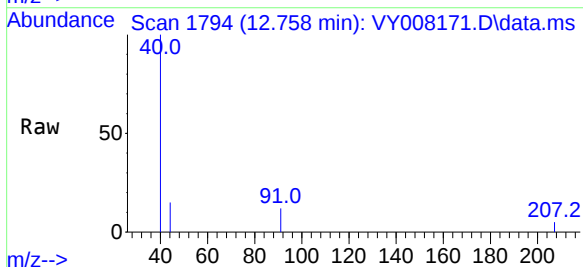
Instrument :  
MSVOA\_Y  
ClientSampleId :  
A06015

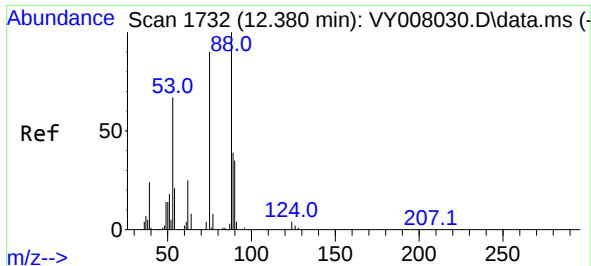
Tgt Ion: 75 Resp: 6428  
Ion Ratio Lower Upper  
75 100  
77 3.0 0.0 0.0#



#79  
2-Chlorotoluene  
Concen: 1.182 ug/l  
RT: 12.758 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

Tgt Ion: 91 Resp: 259  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.9 50.6#

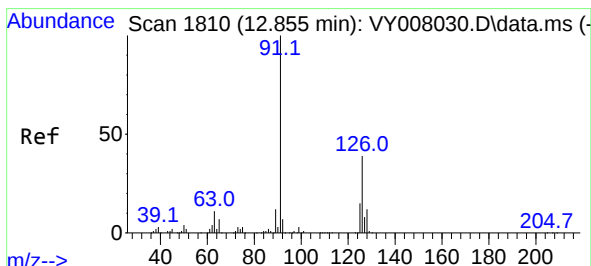
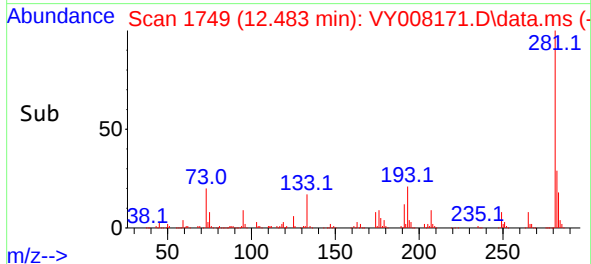
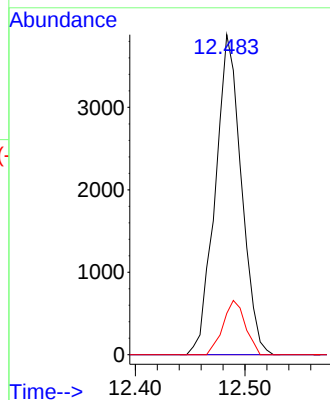
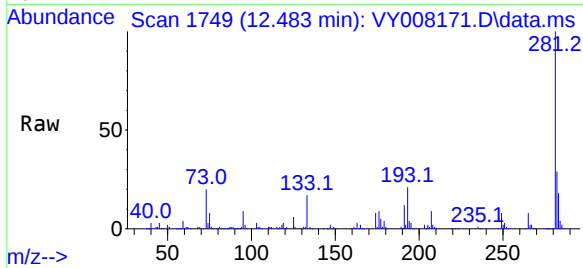




#81  
trans-1,4-Dichloro-2-butene  
Concen: 289.927 ug/l  
RT: 12.483 min Scan# 1794  
Delta R.T. 0.103 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

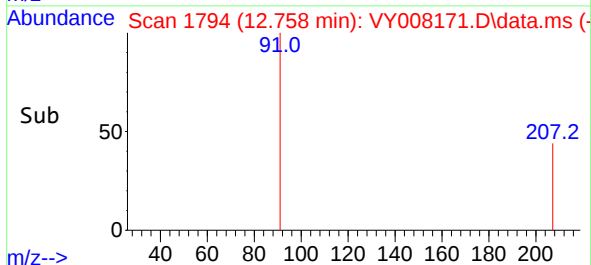
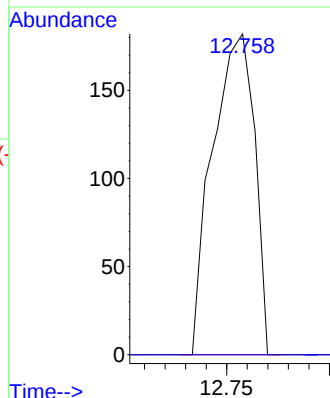
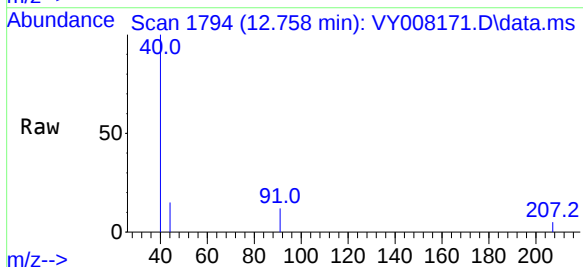
Instrument :  
MSVOA\_Y  
ClientSampleId :  
A06015

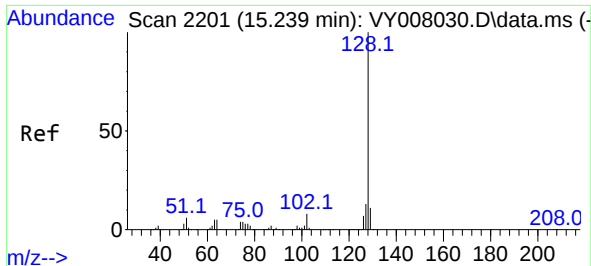
Tgt Ion: 75 Resp: 6428  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 14.4 37.0 55.4#



#82  
4-Chlorotoluene  
Concen: 1.152 ug/l  
RT: 12.758 min Scan# 1794  
Delta R.T. -0.097 min  
Lab File: VY008171.D  
Acq: 01 Apr 2022 19:11

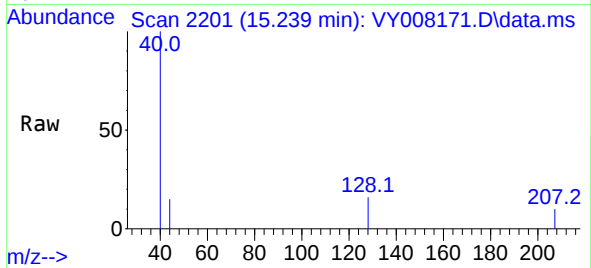
Tgt Ion: 91 Resp: 259  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.0 51.0#





#95  
 Naphthalene  
 Concen: 1.937 ug/l  
 RT: 15.239 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VY008171.D  
 Acq: 01 Apr 2022 19:11

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 A06015



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 344   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 11.0  | 16.4# |
| 129      | 0.0   | 8.4   | 12.6# |

