

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031822\  
 Data File : VD072303.D  
 Acq On : 18 Mar 2022 21:31  
 Operator : VA/SY  
 Sample : N1962-09  
 Misc : 5.10G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 C-22-23-25

Quant Time: Mar 19 05:29:26 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

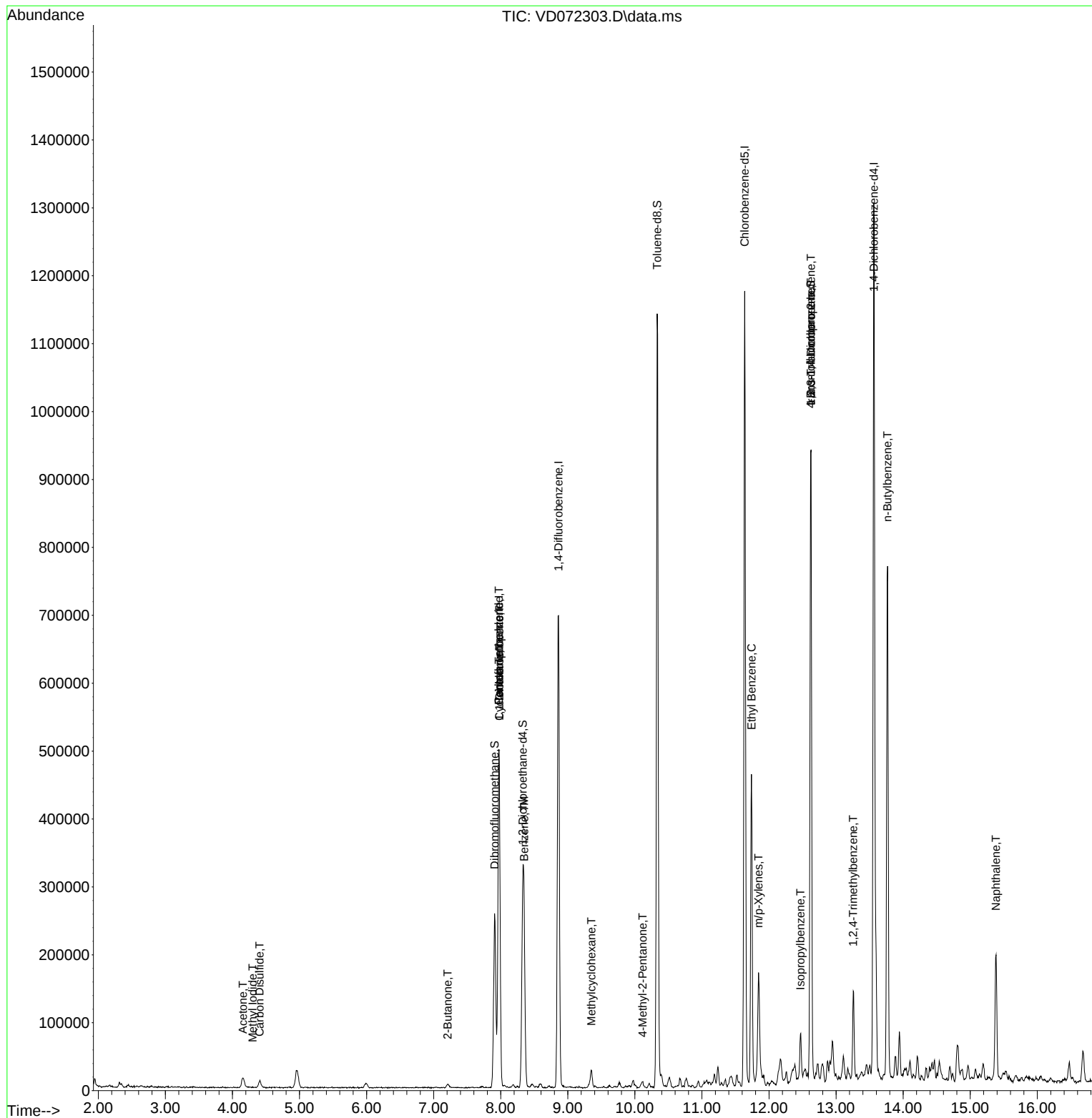
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 355075   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 597538   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 647539   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 332774   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 169185   | 42.755    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 85.500%  |
| 35) Dibromofluoromethane      | 7.909  | 113   | 180585   | 42.946    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 85.900%  |
| 50) Toluene-d8                | 10.332 | 98    | 750145   | 48.789    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 97.580%  |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 326736   | 54.692    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 109.380% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.303  | 142   | 487      | 2.355     | ug/l # | 59       |
| 16) Acetone                   | 4.156  | 43    | 27501    | 32.009    | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.403  | 76    | 19930    | 4.040     | ug/l   | 99       |
| 20) Methylene Chloride        | 4.956  | 84    | 19630    | Below Cal |        | 89       |
| 25) 2-Butanone                | 7.209  | 43    | 8284     | 7.232     | ug/l # | 71       |
| 31) Cyclohexane               | 7.979  | 56    | 10094    | 1.633     | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 30336    | 5.143     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 38410    | 5.728     | ug/l # | 17       |
| 39) Methylcyclohexane         | 9.350  | 83    | 8841     | 1.332     | ug/l   | 97       |
| 40) Benzene                   | 8.350  | 78    | 217473   | 12.923    | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.114 | 43    | 4043     | 1.535     | ug/l # | 39       |
| 67) Ethyl Benzene             | 11.738 | 91    | 323976   | 12.636    | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.844 | 106   | 49858    | 5.121     | ug/l   | 98       |
| 73) Isopropylbenzene          | 12.467 | 105   | 44733    | 1.696     | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 169381   | 46.143    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 169381   | 114.485   | ug/l # | 7        |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105   | 72300    | 3.239     | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.767 | 91    | 64211    | 2.745     | ug/l # | 45       |
| 95) Naphthalene               | 15.385 | 128   | 167900   | 13.565    | ug/l   | 98       |
| -----                         |        |       |          |           |        |          |

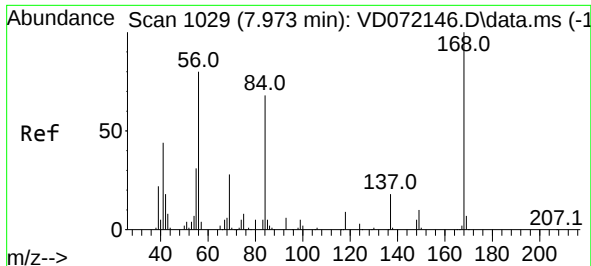
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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C-22-23-25

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 14 05:18:06 2022  
Response via : Initial Calibration

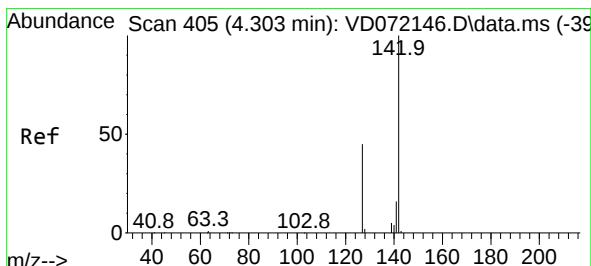
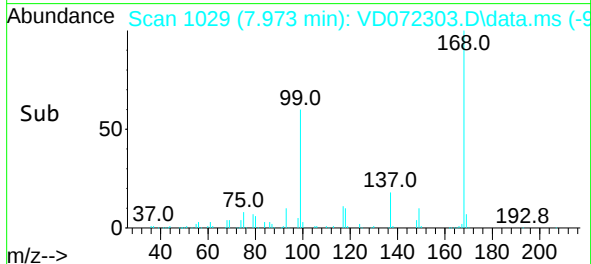
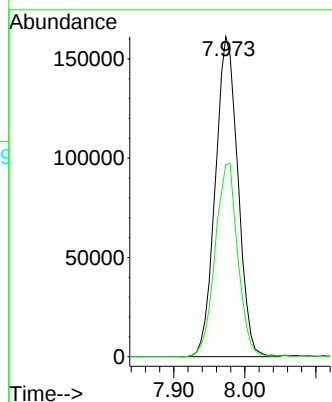
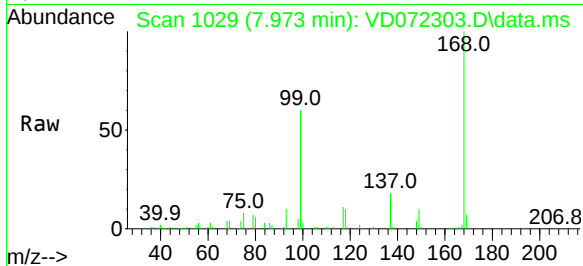




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

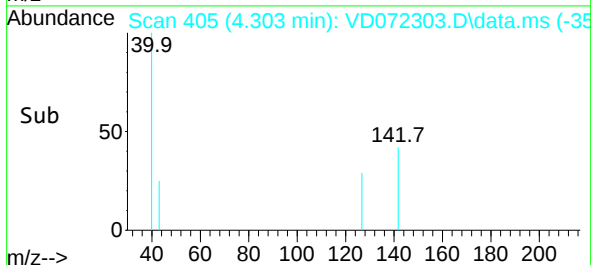
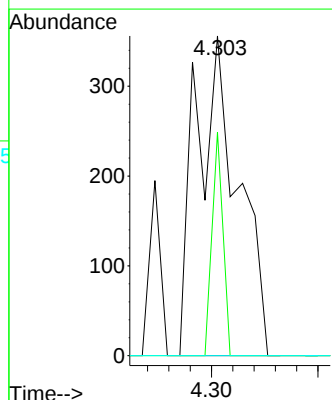
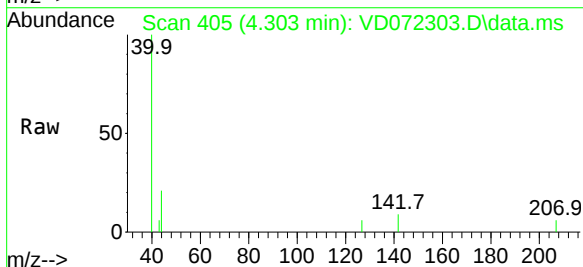
Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

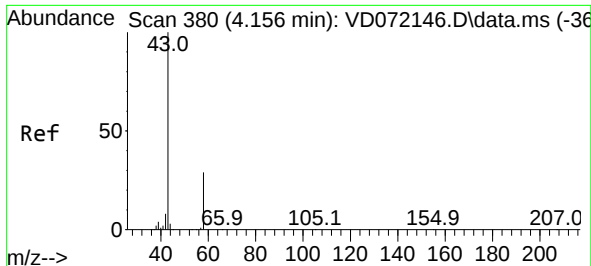
Tgt Ion:168 Resp: 355075  
Ion Ratio Lower Upper  
168 100  
99 60.1 49.8 74.6



#10  
Methyl Iodide  
Concen: 2.355 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion:142 Resp: 487  
Ion Ratio Lower Upper  
142 100  
127 18.1 37.3 55.9#  
141 0.0 11.7 17.5#

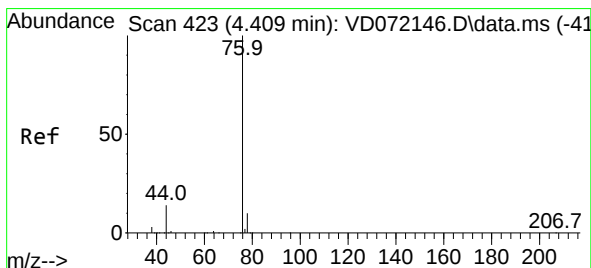
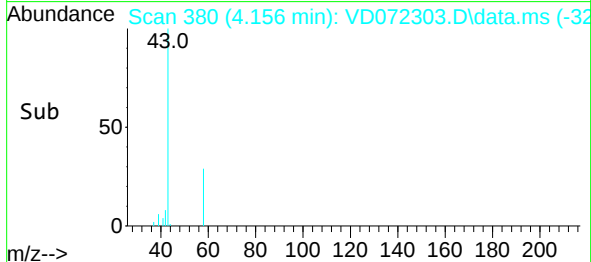
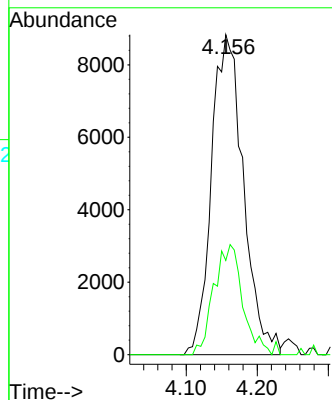
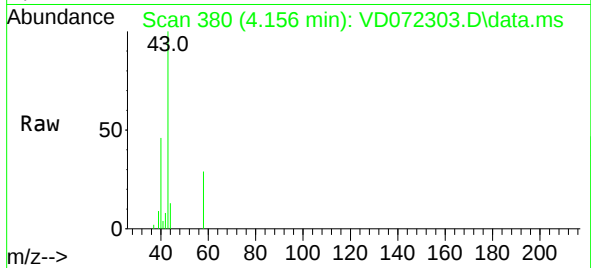




#16  
Acetone  
Concen: 32.009 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

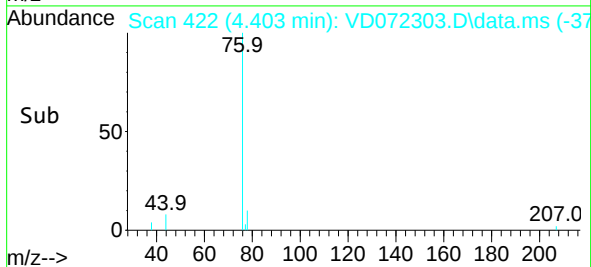
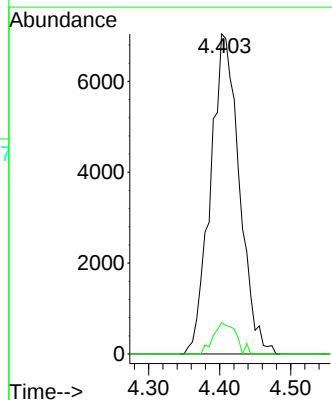
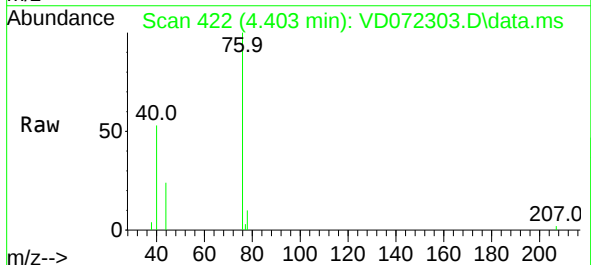
Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

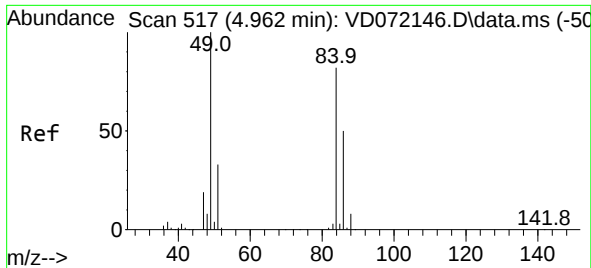
Tgt Ion: 43 Resp: 27501  
Ion Ratio Lower Upper  
43 100  
58 29.5 22.1 33.1



#17  
Carbon Disulfide  
Concen: 4.040 ug/l  
RT: 4.403 min Scan# 422  
Delta R.T. -0.006 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion: 76 Resp: 19930  
Ion Ratio Lower Upper  
76 100  
78 9.8 7.5 11.3



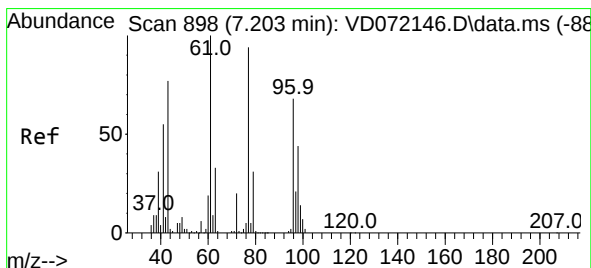
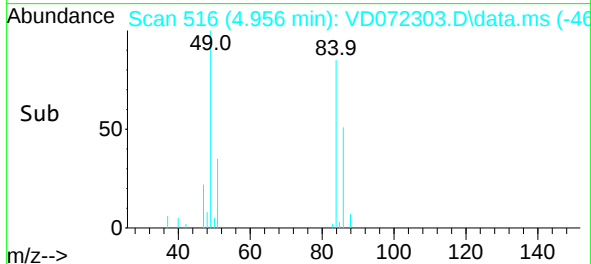
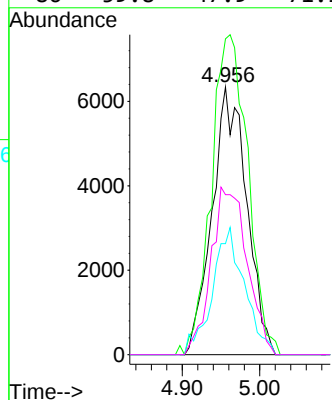
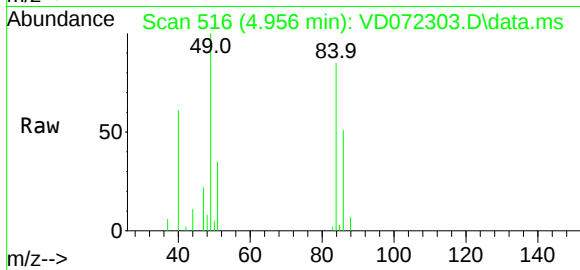


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

Tgt Ion: 84 Resp: 19630

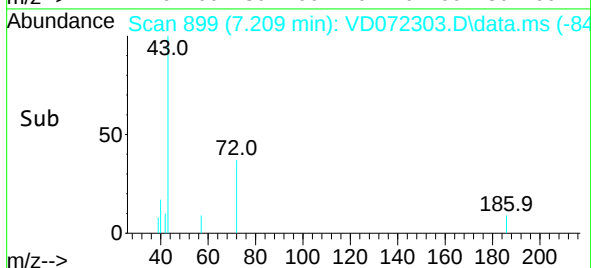
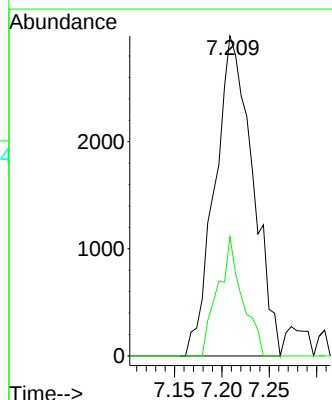
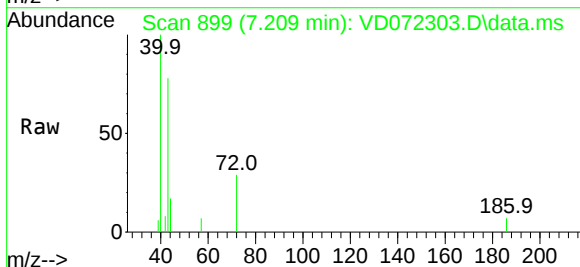
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 118.0 | 112.8 | 169.2 |
| 51  | 41.5  | 32.6  | 48.8  |
| 86  | 59.8  | 47.9  | 71.9  |

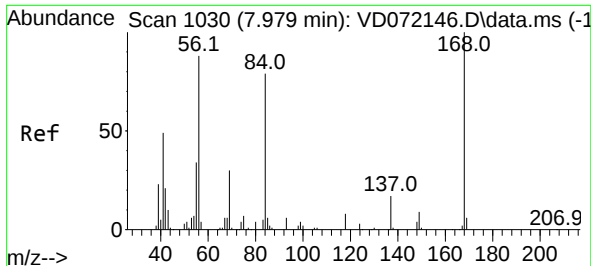


#25  
2-Butanone  
Concen: 7.232 ug/l  
RT: 7.209 min Scan# 899  
Delta R.T. 0.006 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion: 43 Resp: 8284

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 37.2  | 18.6  | 27.8  |





#31

Cyclohexane

Concen: 1.633 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD072303.D

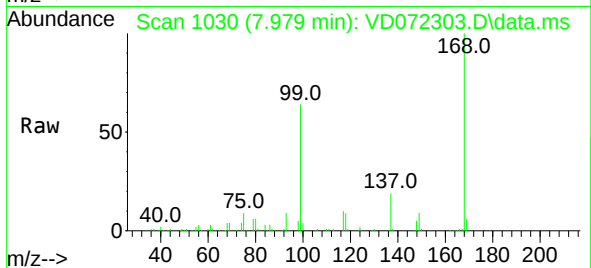
Acq: 18 Mar 2022 21:31

Instrument :

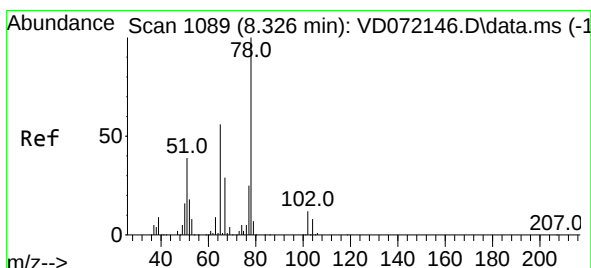
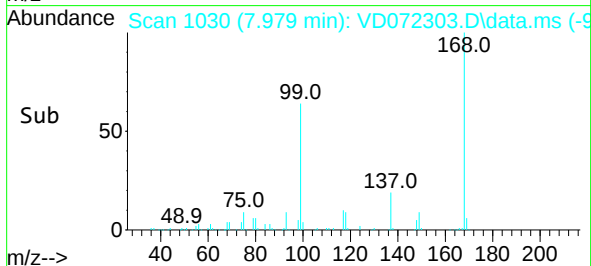
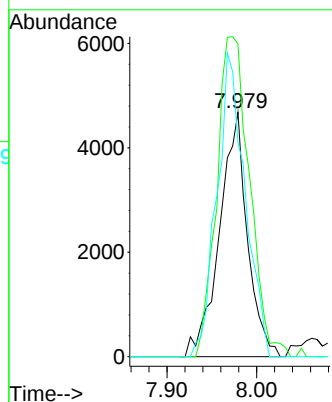
MSVOA\_D

ClientSampleId :

C-22-23-25



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 10094 |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 128.0 | 25.4  | 38.2# |
| 84        | 87.7  | 63.0  | 94.4  |



#33

1,2-Dichloroethane-d4

Concen: 42.755 ug/l

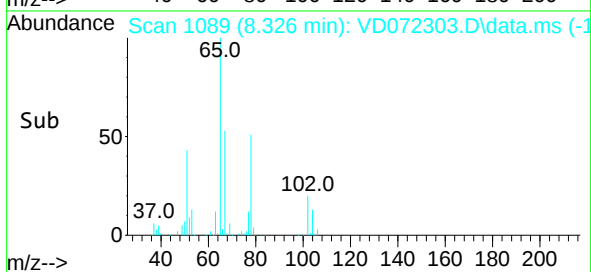
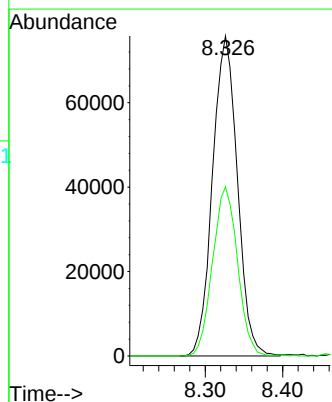
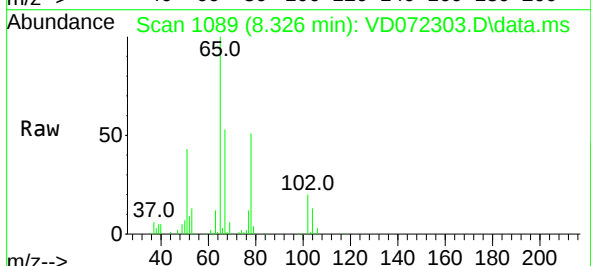
RT: 8.326 min Scan# 1089

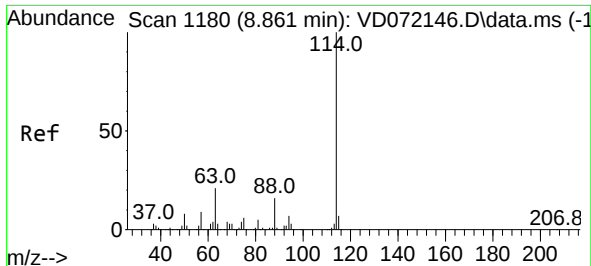
Delta R.T. 0.000 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 169185 |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 67        | 53.1  | 0.0   | 101.4  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

Instrument :

MSVOA\_D

ClientSampleId :

C-22-23-25

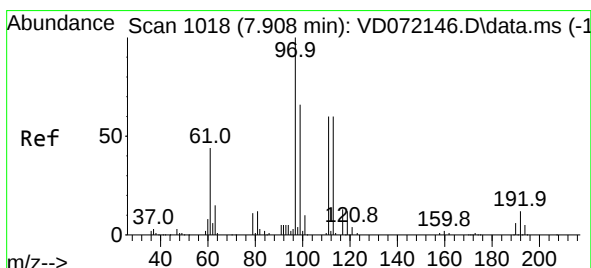
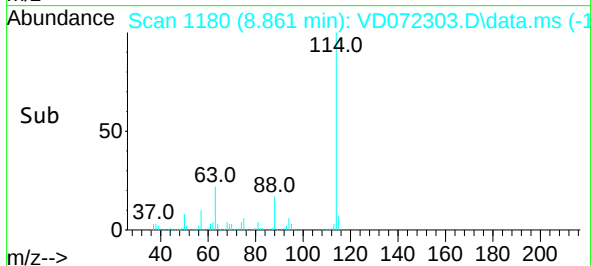
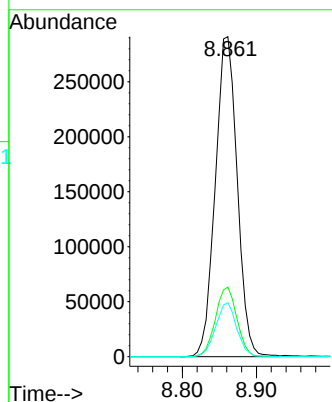
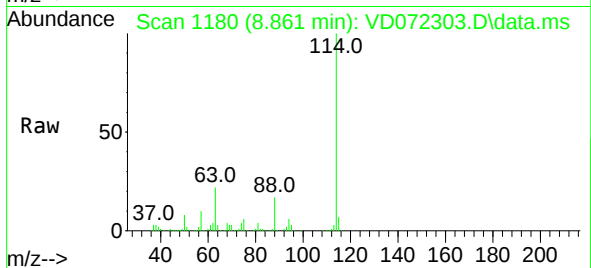
Tgt Ion:114 Resp: 597538

Ion Ratio Lower Upper

114 100

63 21.8 0.0 46.6

88 16.9 0.0 33.2



#35

Dibromofluoromethane

Concen: 42.946 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

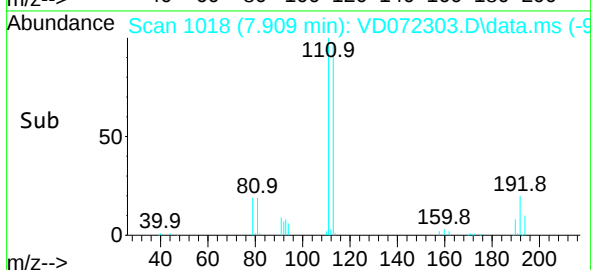
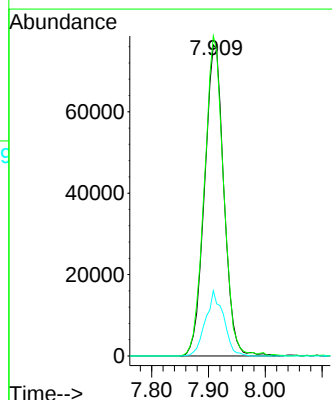
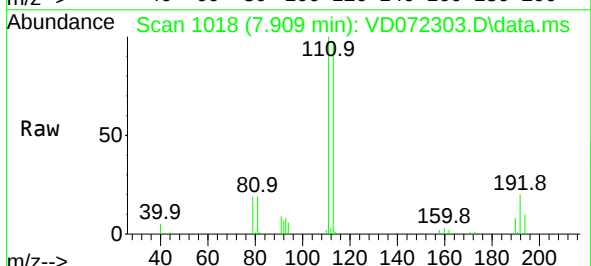
Tgt Ion:113 Resp: 180585

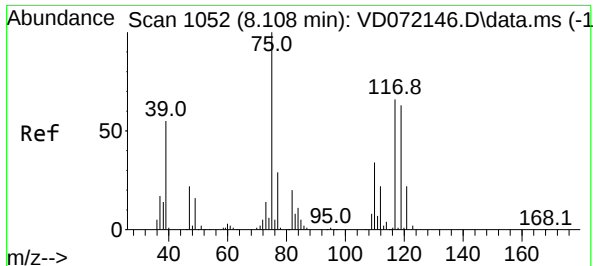
Ion Ratio Lower Upper

113 100

111 101.9 83.8 125.6

192 19.6 14.6 21.8





#36

1,1-Dichloropropene

Concen: 5.143 ug/l

RT: 7.979 min Scan# 1029

Delta R.T. -0.129 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

Instrument :

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ClientSampleId :

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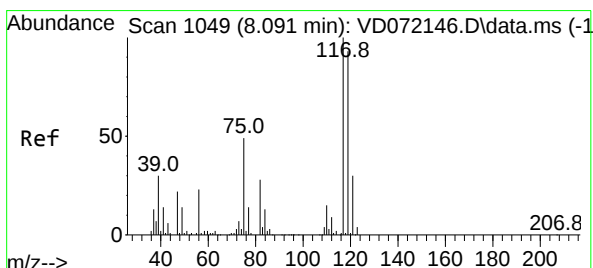
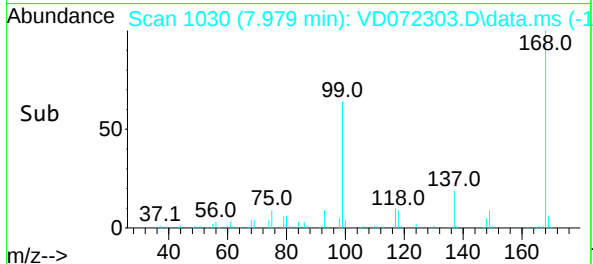
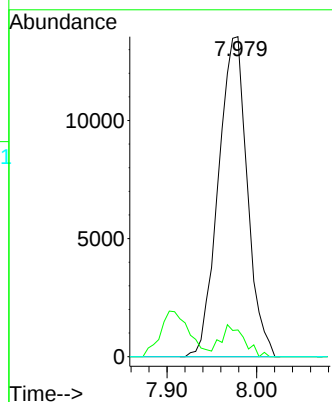
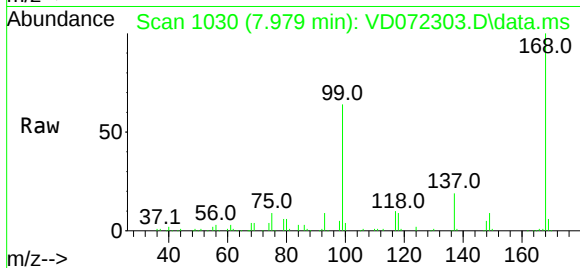
Tgt Ion: 75 Resp: 30336

Ion Ratio Lower Upper

75 100

110 7.9 16.4 49.1#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 5.728 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.118 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

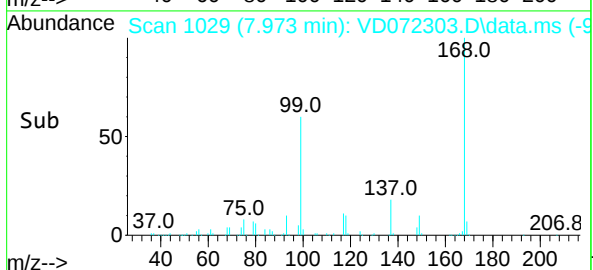
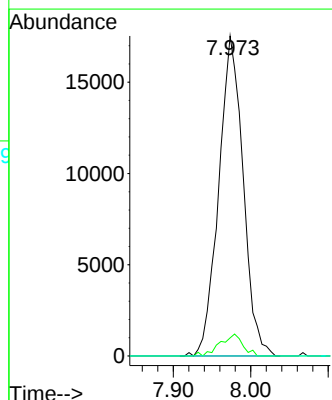
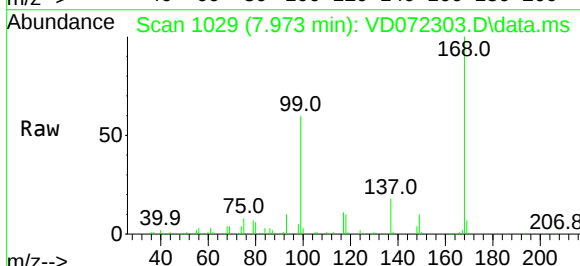
Tgt Ion: 117 Resp: 38410

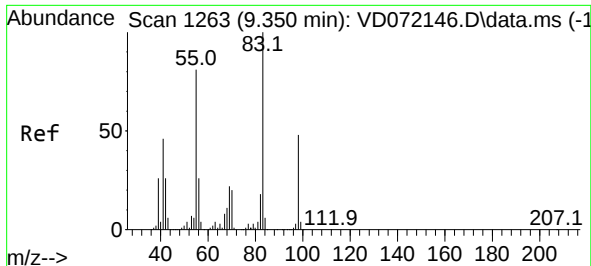
Ion Ratio Lower Upper

117 100

119 5.7 75.8 113.6#

121 0.0 24.5 36.7#





#39

Methylcyclohexane

Concen: 1.332 ug/l

RT: 9.350 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

Instrument :

MSVOA\_D

ClientSampleId :

C-22-23-25

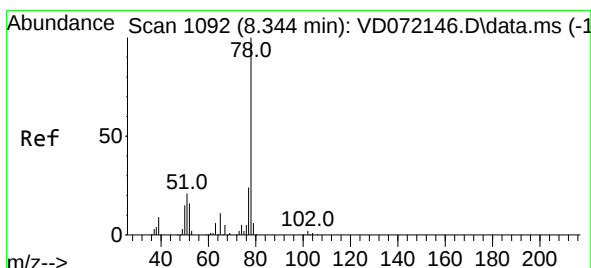
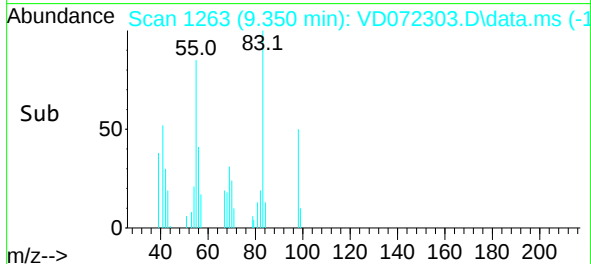
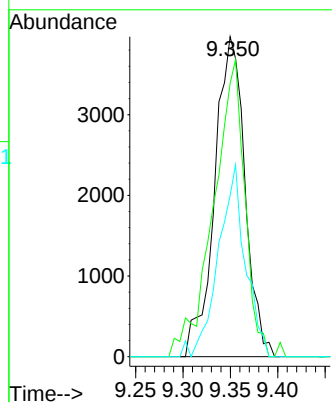
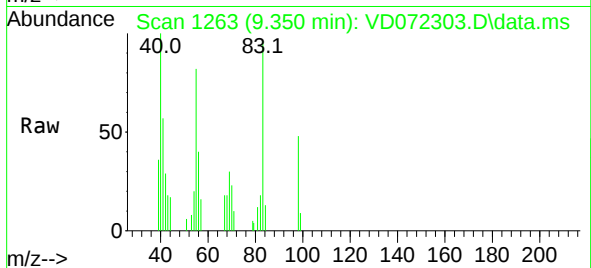
Tgt Ion: 83 Resp: 8841

Ion Ratio Lower Upper

83 100

55 80.9 63.2 94.8

98 50.4 38.2 57.4



#40

Benzene

Concen: 12.923 ug/l

RT: 8.350 min Scan# 1093

Delta R.T. 0.006 min

Lab File: VD072303.D

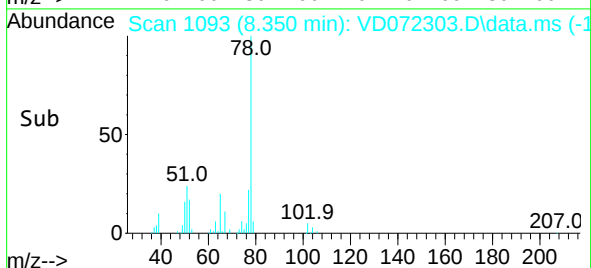
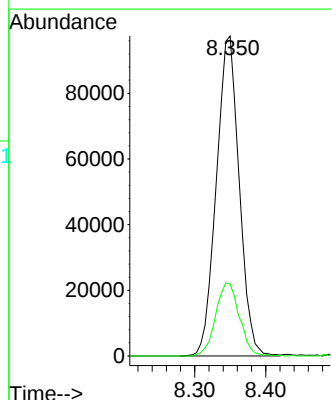
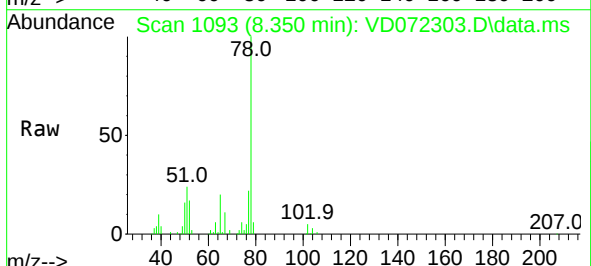
Acq: 18 Mar 2022 21:31

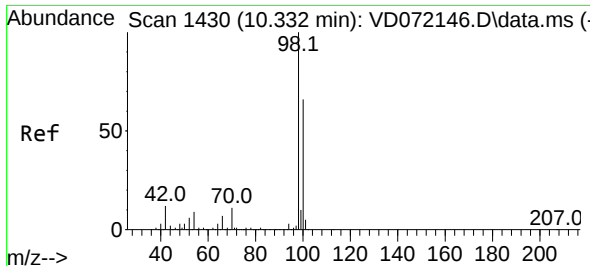
Tgt Ion: 78 Resp: 217473

Ion Ratio Lower Upper

78 100

77 22.5 19.1 28.7

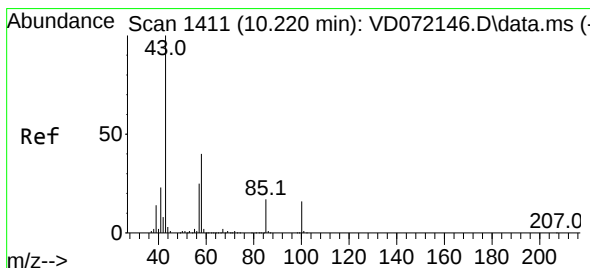
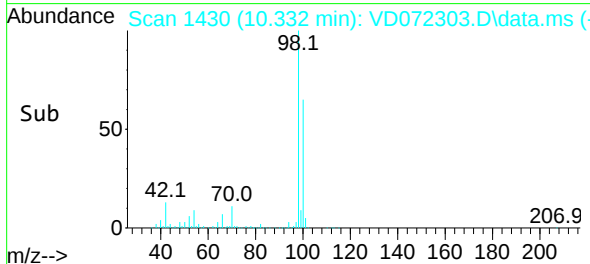
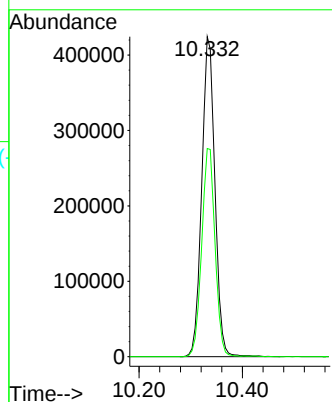
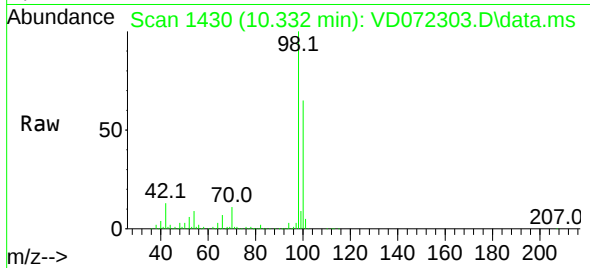




#50  
Toluene-d8  
Concen: 48.789 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

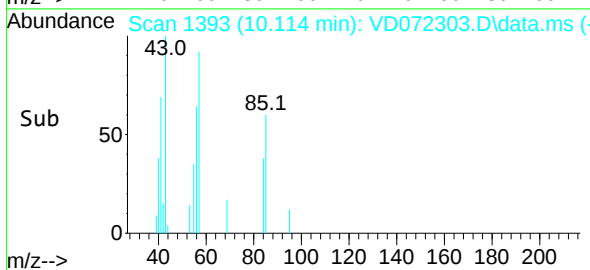
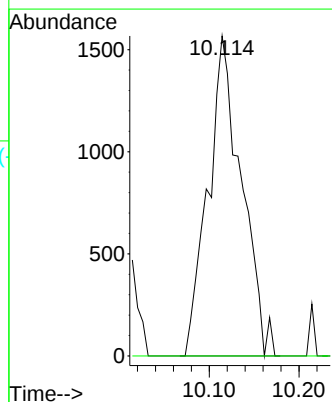
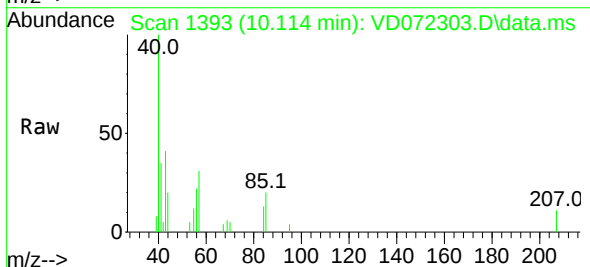
Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

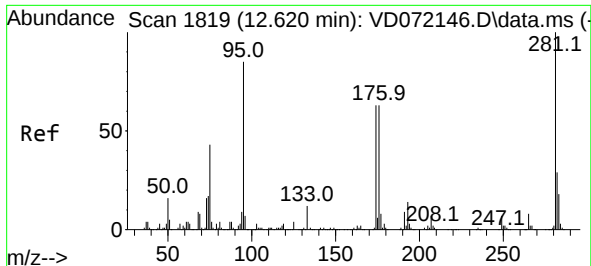
Tgt Ion: 98 Resp: 750145  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.4 78.6



#51  
4-Methyl-2-Pentanone  
Concen: 1.535 ug/l  
RT: 10.114 min Scan# 1393  
Delta R.T. -0.106 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion: 43 Resp: 4043  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#

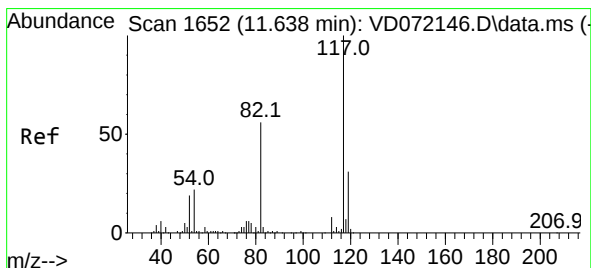
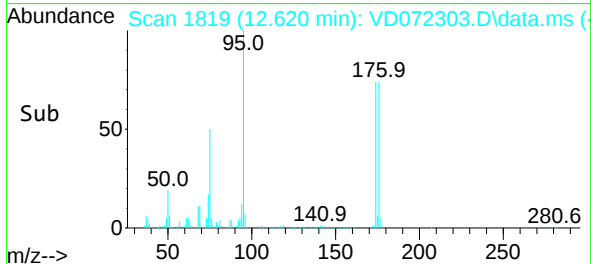
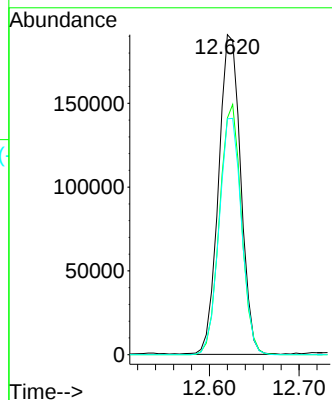
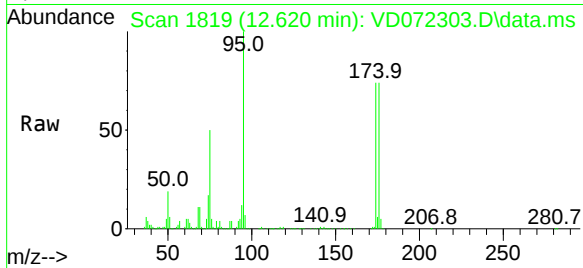




#62  
4-Bromofluorobenzene  
Concen: 54.692 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

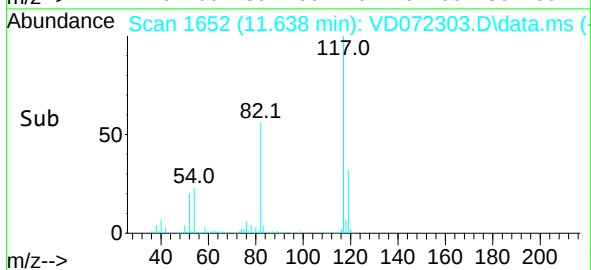
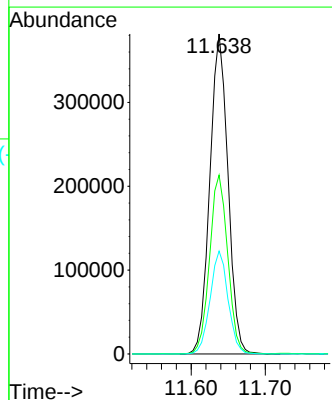
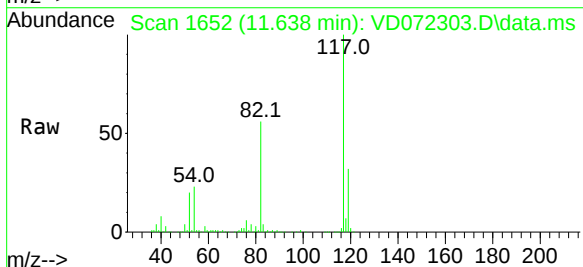
Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

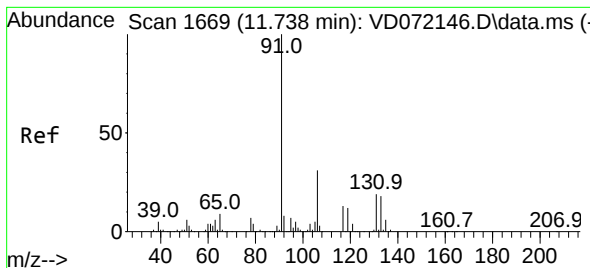
Tgt Ion: 95 Resp: 326736  
Ion Ratio Lower Upper  
95 100  
174 76.9 0.0 152.8  
176 74.9 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion: 117 Resp: 647539  
Ion Ratio Lower Upper  
117 100  
82 55.8 45.3 67.9  
119 32.1 26.6 40.0





#67

Ethyl Benzene

Concen: 12.636 ug/l

RT: 11.738 min Scan# 1669

Delta R.T. 0.000 min

Lab File: VD072303.D

Acq: 18 Mar 2022 21:31

Instrument :

MSVOA\_D

ClientSampleId :

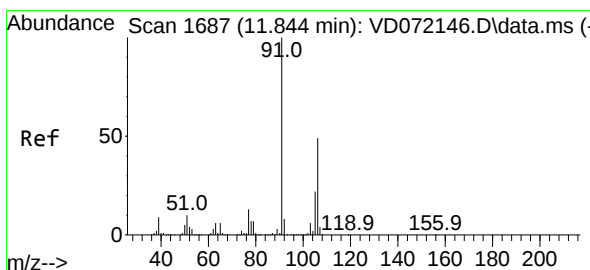
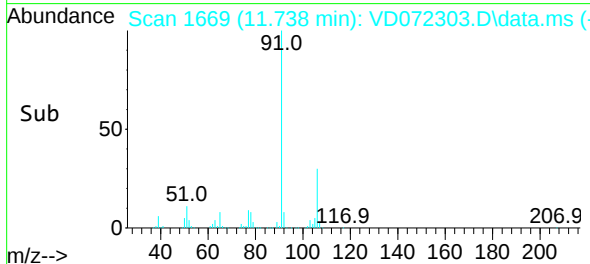
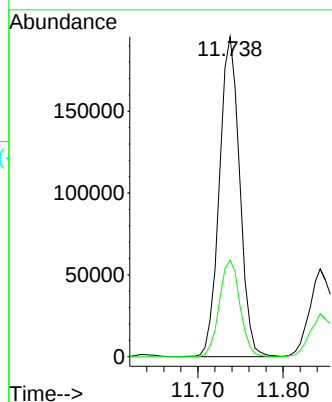
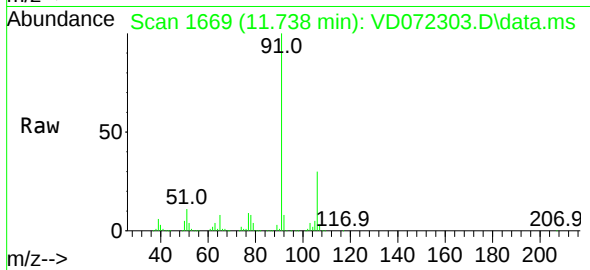
C-22-23-25

Tgt Ion: 91 Resp: 323976

Ion Ratio Lower Upper

91 100

106 30.1 24.2 36.4



#68

m/p-Xylenes

Concen: 5.121 ug/l

RT: 11.844 min Scan# 1687

Delta R.T. 0.000 min

Lab File: VD072303.D

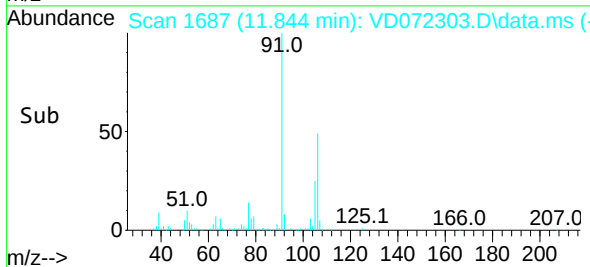
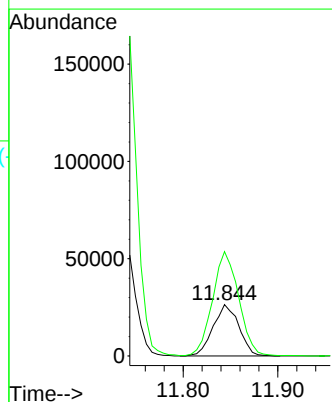
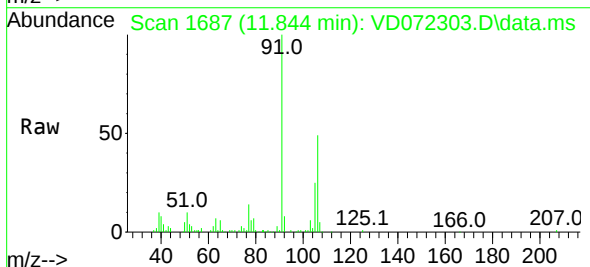
Acq: 18 Mar 2022 21:31

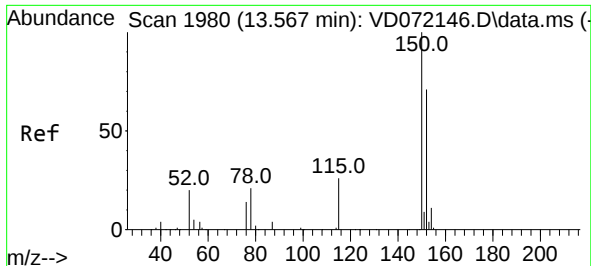
Tgt Ion: 106 Resp: 49858

Ion Ratio Lower Upper

106 100

91 207.3 163.7 245.5

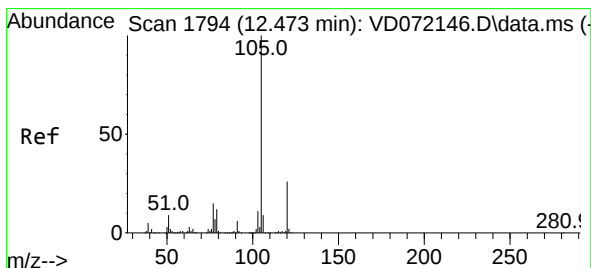
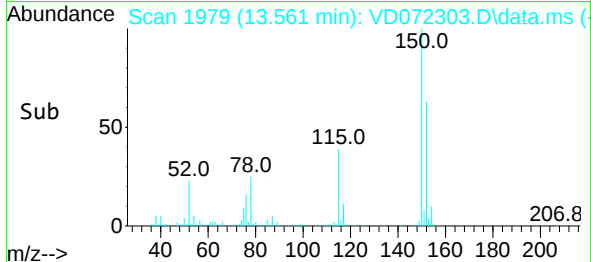
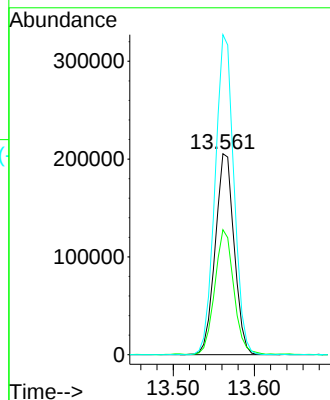
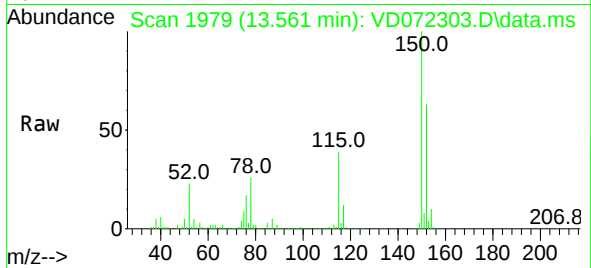




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1980  
Delta R.T. -0.006 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

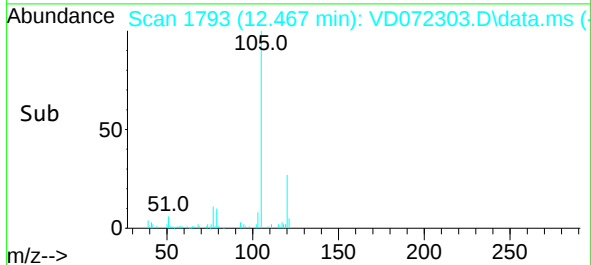
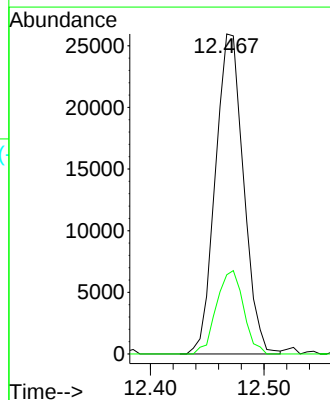
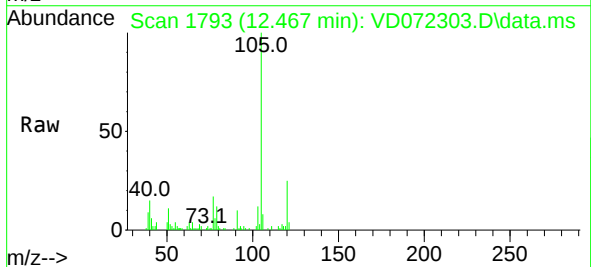
Instrument :  
MSVOA\_D  
ClientSampleId :  
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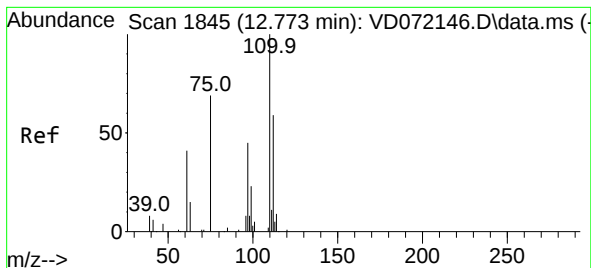
Tgt Ion:152 Resp: 332774  
Ion Ratio Lower Upper  
152 100  
115 62.2 31.3 93.8  
150 158.5 0.0 348.6



#73  
Isopropylbenzene  
Concen: 1.696 ug/l  
RT: 12.467 min Scan# 1793  
Delta R.T. -0.006 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion:105 Resp: 44733  
Ion Ratio Lower Upper  
105 100  
120 25.0 13.0 38.9

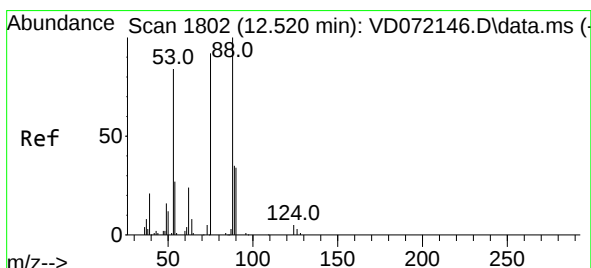
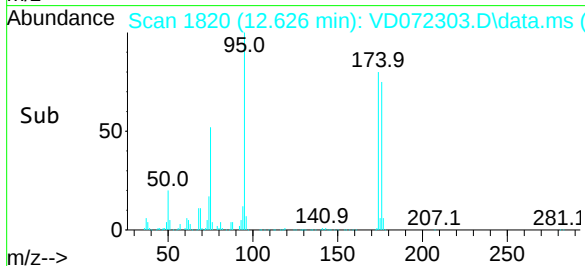
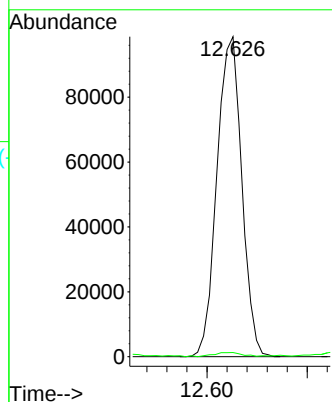
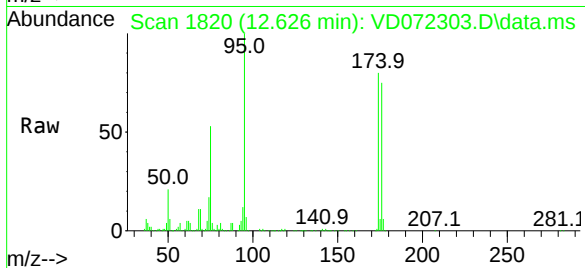




#76  
1,2,3-Trichloropropane  
Concen: 46.143 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

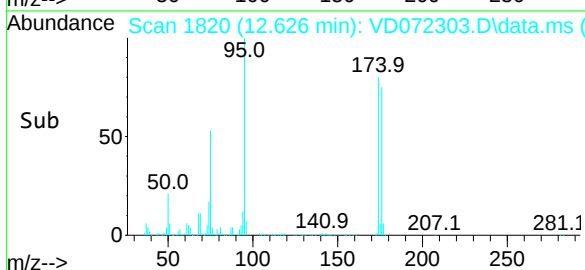
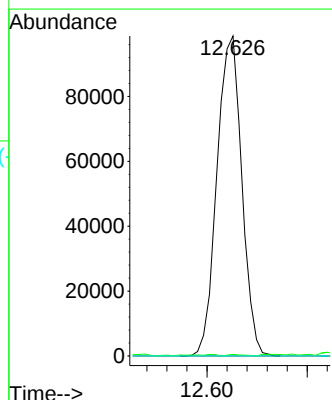
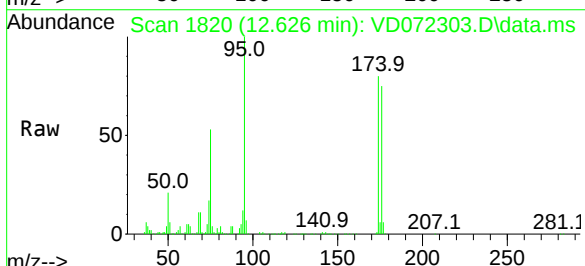
Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

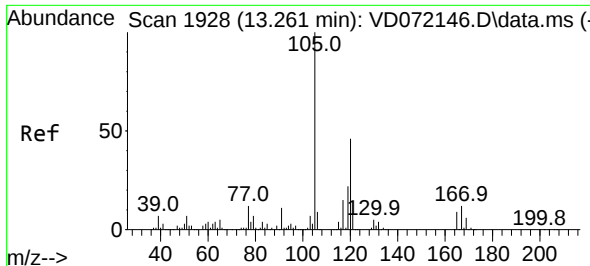
Tgt Ion: 75 Resp: 169381  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.485 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Tgt Ion: 75 Resp: 169381  
Ion Ratio Lower Upper  
75 100  
53 0.3 86.5 129.7#  
89 0.0 33.9 50.9#

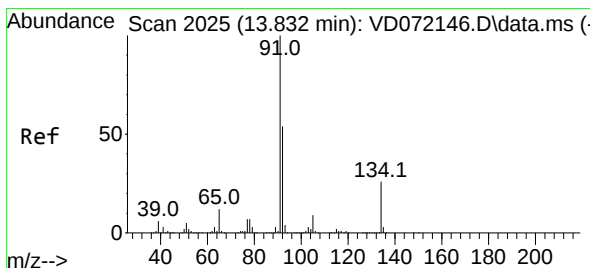
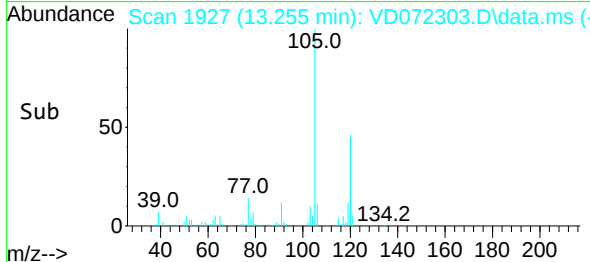
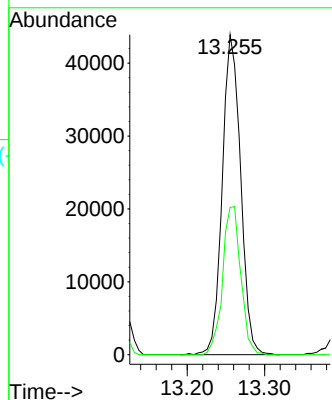
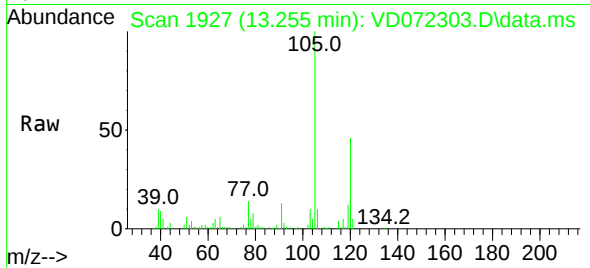




#84  
1,2,4-Trimethylbenzene  
Concen: 3.239 ug/l  
RT: 13.255 min Scan# 1927  
Delta R.T. -0.006 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

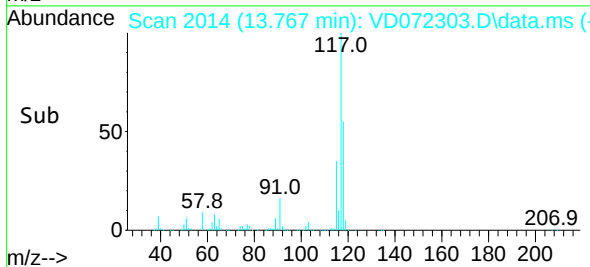
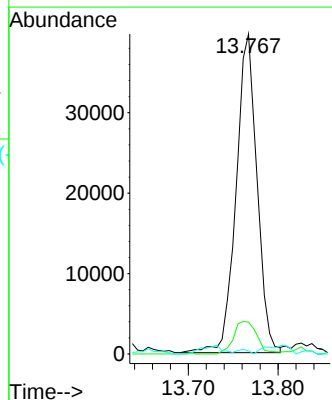
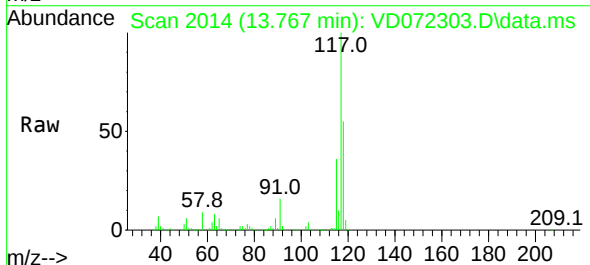
Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25

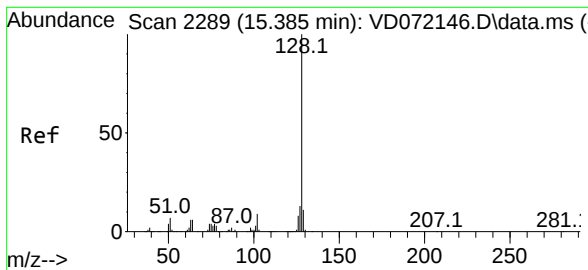
Tgt Ion:105 Resp: 72300  
Ion Ratio Lower Upper  
105 100  
120 46.0 22.3 66.8



#89  
n-Butylbenzene  
Concen: 2.745 ug/l  
RT: 13.767 min Scan# 2014  
Delta R.T. -0.065 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

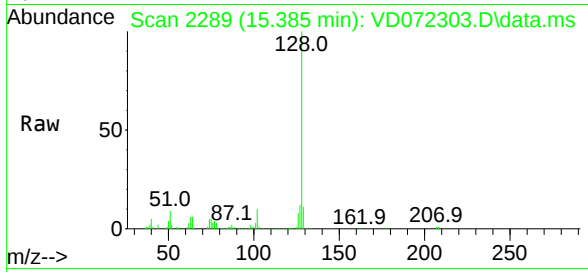
Tgt Ion: 91 Resp: 64211  
Ion Ratio Lower Upper  
91 100  
92 11.5 26.6 79.8#  
134 0.7 12.3 36.9#





#95  
Naphthalene  
Concen: 13.565 ug/l  
RT: 15.385 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VD072303.D  
Acq: 18 Mar 2022 21:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
C-22-23-25



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 167900 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 12.6  | 10.3  | 15.5   |
| 129      | 11.4  | 8.4   | 12.6   |

