

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031622\  
 Data File : VD072234.D  
 Acq On : 16 Mar 2022 22:45  
 Operator : VA/SY  
 Sample : N1942-05  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S-DRUM-C

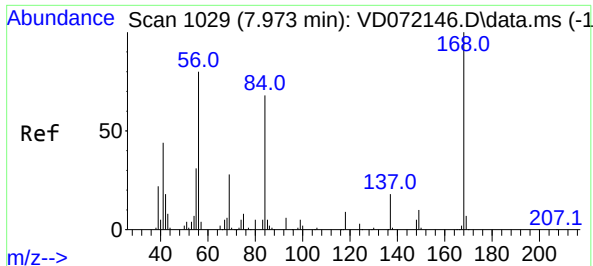
Quant Time: Mar 17 02:30:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 389484     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 648172     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 689107     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 365961     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 202060     | 46.551    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 93.100%   |        |          |
| 35) Dibromofluoromethane      | 7.908          | 113  | 203575     | 44.632    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 89.260%   |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 803564     | 48.180    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 96.360%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 349497     | 53.931    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 107.860%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 10) Methyl Iodide             | 4.297          | 142  | 186        | 2.271     | ug/l # | 38       |
| 11) Tert butyl alcohol        | 5.173          | 59   | 4056       | 16.116    | ug/l # | 78       |
| 16) Acetone                   | 4.150          | 43   | 4540       | 4.817     | ug/l # | 84       |
| 17) Carbon Disulfide          | 4.409          | 76   | 5176       | 2.102     | ug/l   | 100      |
| 20) Methylene Chloride        | 4.973          | 84   | 14326      | Below Cal | #      | 82       |
| 31) Cyclohexane               | 7.967          | 56   | 8558       | 1.262     | ug/l # | 5        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 31616      | 4.941     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 40608      | 5.583     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 183016     | 45.336    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 183016     | 112.483   | ug/l # | 7        |
| -----                         |                |      |            |           |        |          |

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

Quant Time: Mar 17 02:30:07 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

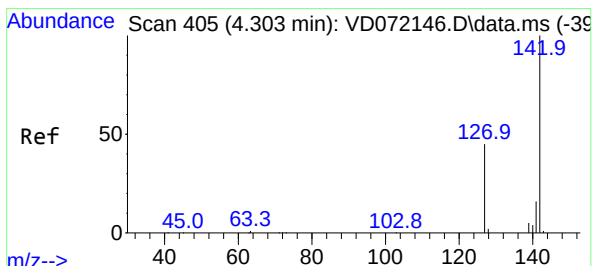
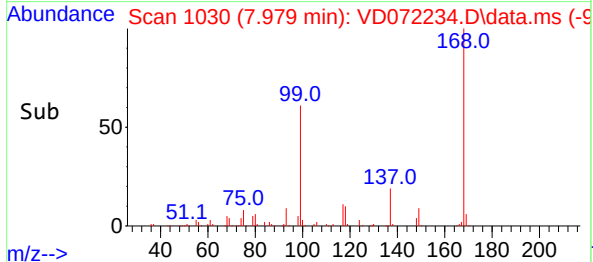
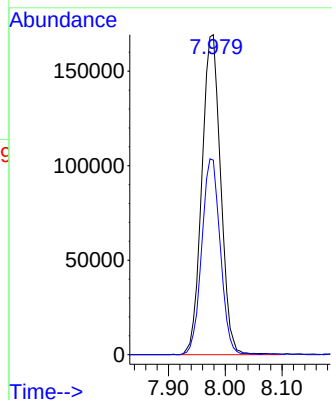
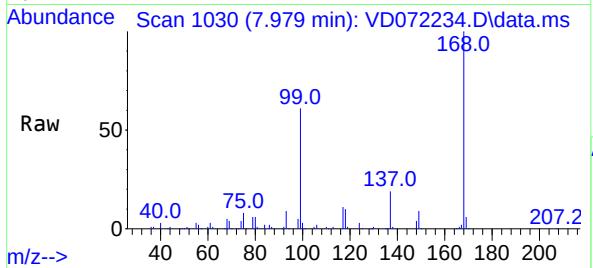




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1029  
Delta R.T. 0.006 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

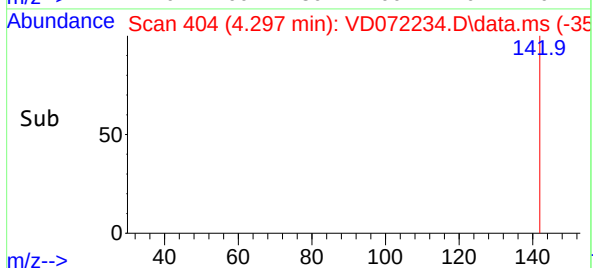
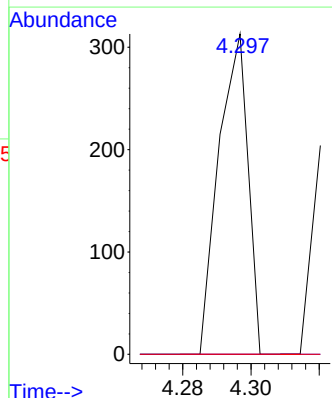
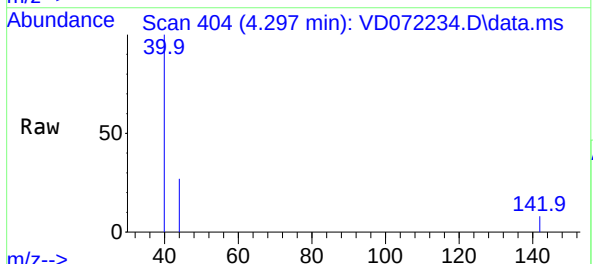
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-DRUM-C

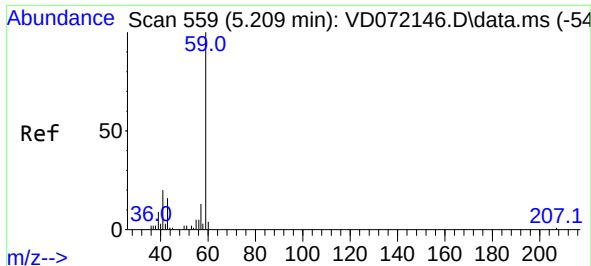
Tgt Ion:168 Resp: 389484  
Ion Ratio Lower Upper  
168 100  
99 60.8 49.8 74.6



#10  
Methyl Iodide  
Concen: 2.271 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

Tgt Ion:142 Resp: 186  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.3 55.9#  
141 0.0 11.7 17.5#





#11

Tert butyl alcohol

Concen: 16.116 ug/l

RT: 5.173 min Scan# 51

Delta R.T. -0.035 min

Lab File: VD072234.D

Acq: 16 Mar 2022 22:45

Instrument :

MSVOA\_D

ClientSampleId :

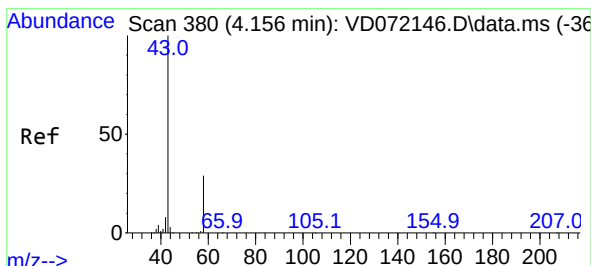
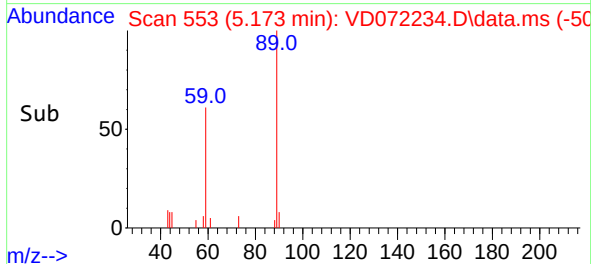
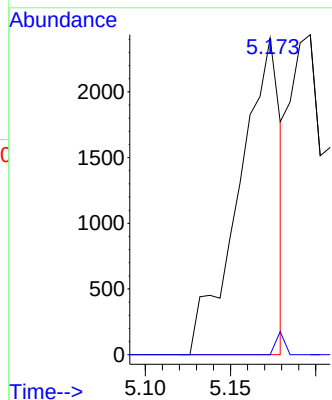
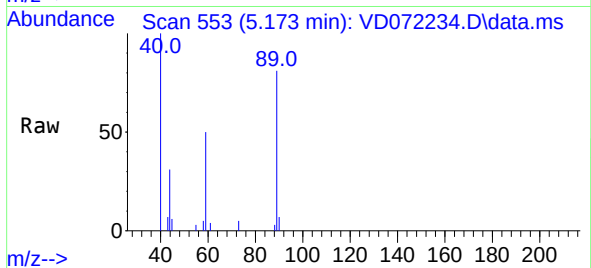
S-DRUM-C

Tgt Ion: 59 Resp: 4056

Ion Ratio Lower Upper

59 100

57 1.5 7.8 11.6#



#16

Acetone

Concen: 4.817 ug/l

RT: 4.150 min Scan# 379

Delta R.T. -0.006 min

Lab File: VD072234.D

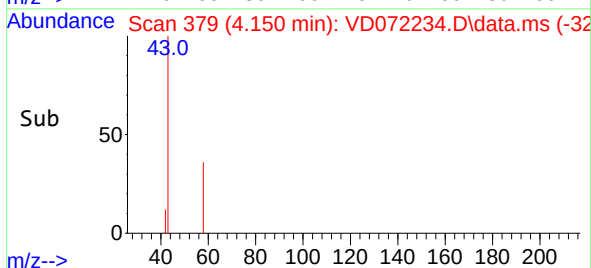
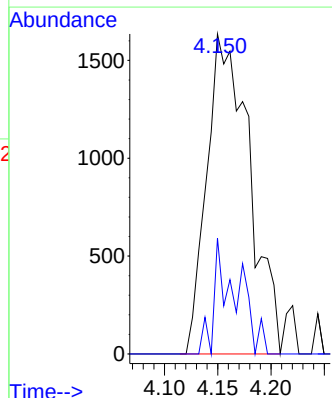
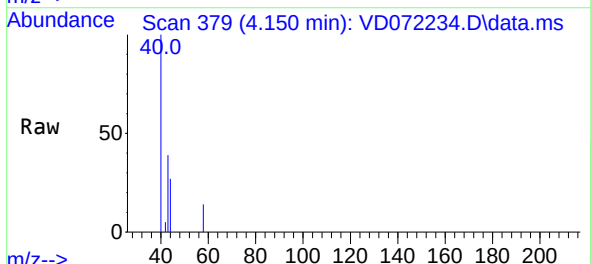
Acq: 16 Mar 2022 22:45

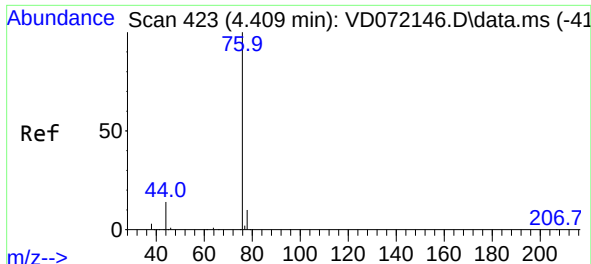
Tgt Ion: 43 Resp: 4540

Ion Ratio Lower Upper

43 100

58 36.2 22.1 33.1#

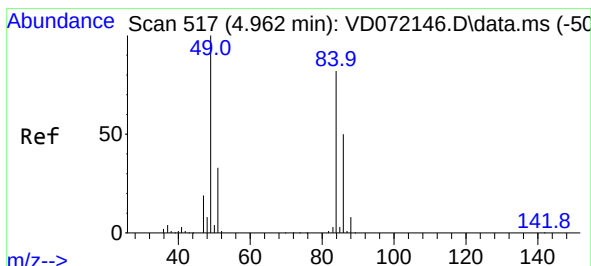
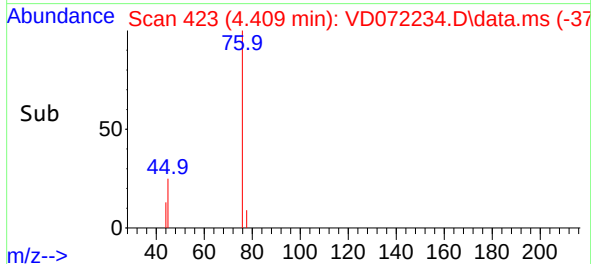
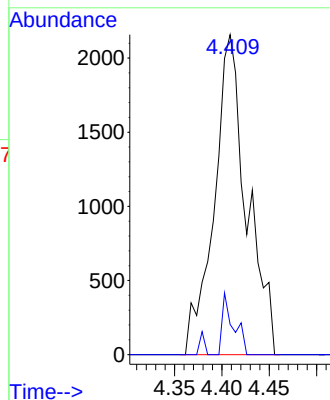
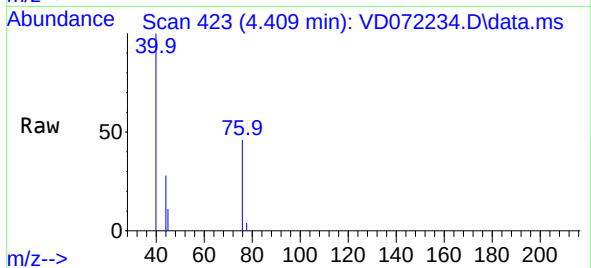




#17  
Carbon Disulfide  
Concen: 2.102 ug/l  
RT: 4.409 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

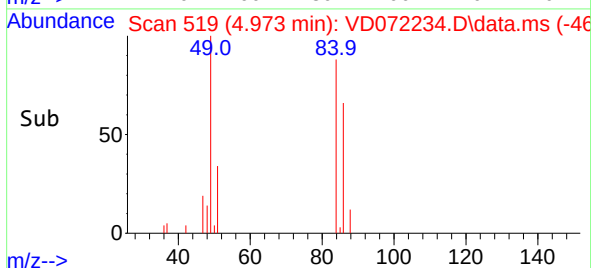
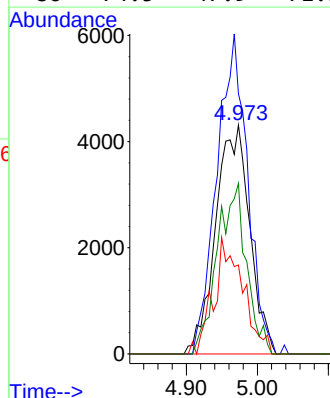
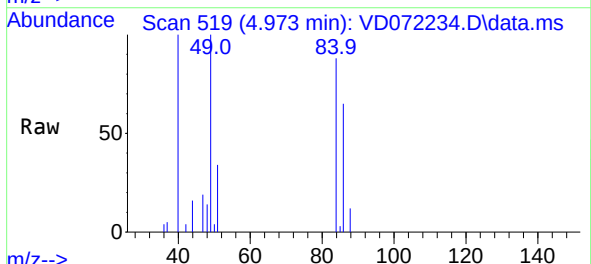
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-DRUM-C

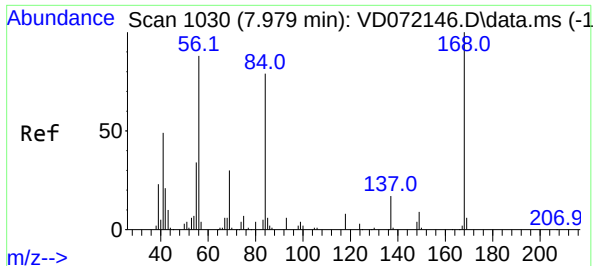
Tgt Ion: 76 Resp: 5176  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.5 11.3



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.973 min Scan# 519  
Delta R.T. 0.011 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

Tgt Ion: 84 Resp: 14326  
Ion Ratio Lower Upper  
84 100  
49 113.6 112.8 169.2  
51 38.9 32.6 48.8  
86 74.5 47.9 71.9#





#31

Cyclohexane

Concen: 1.262 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD072234.D

Acq: 16 Mar 2022 22:45

Instrument :

MSVOA\_D

ClientSampleId :

S-DRUM-C

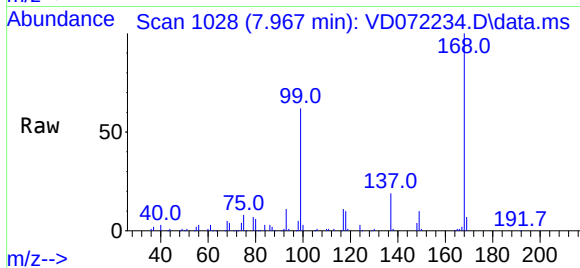
Tgt Ion: 56 Resp: 8558

Ion Ratio Lower Upper

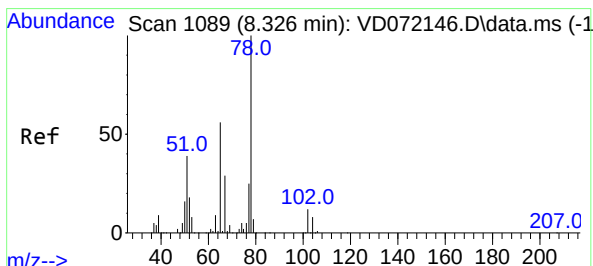
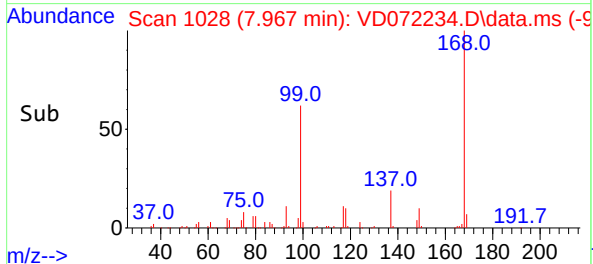
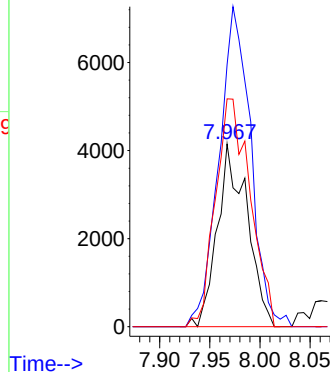
56 100

69 143.3 25.4 38.2#

84 124.6 63.0 94.4#



Abundance



#33

1,2-Dichloroethane-d4

Concen: 46.551 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VD072234.D

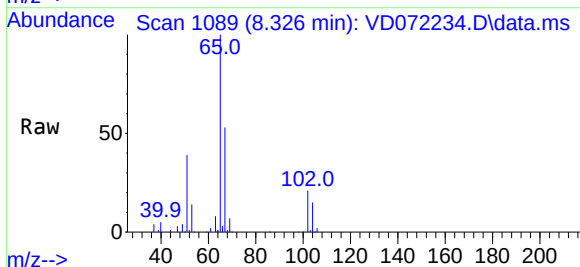
Acq: 16 Mar 2022 22:45

Tgt Ion: 65 Resp: 202060

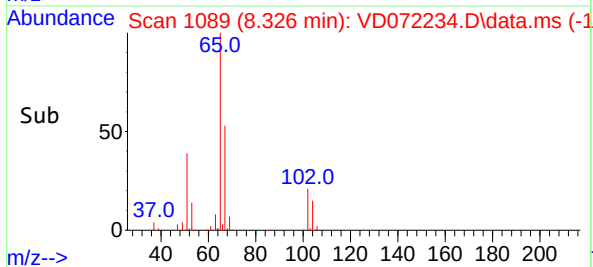
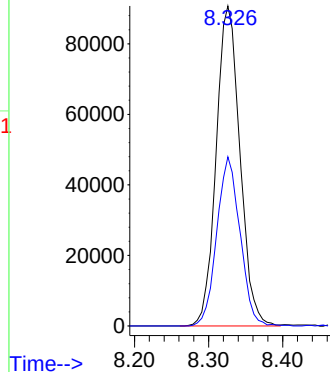
Ion Ratio Lower Upper

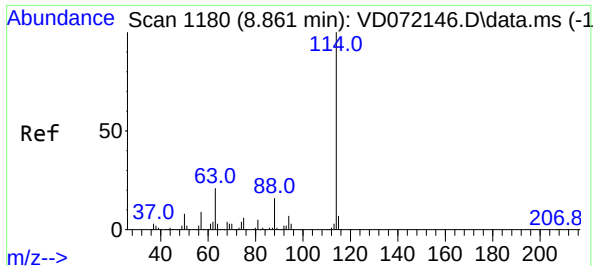
65 100

67 51.7 0.0 101.4



Abundance





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD072234.D

Acq: 16 Mar 2022 22:45

Instrument :

MSVOA\_D

ClientSampleId :

S-DRUM-C

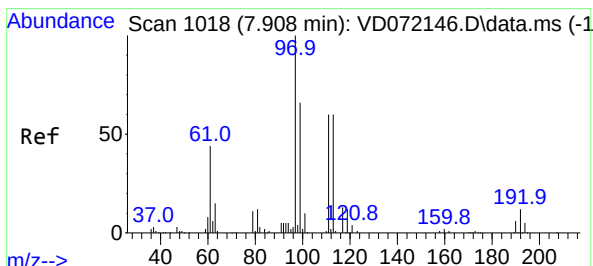
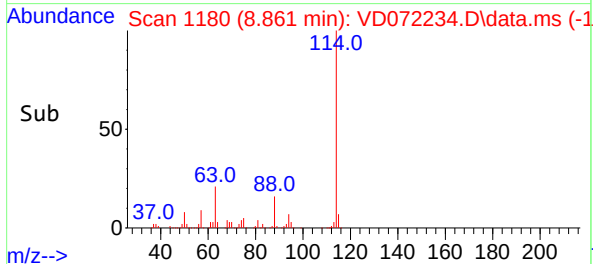
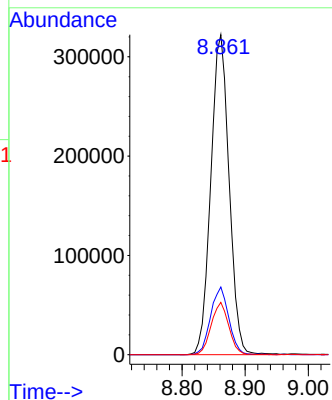
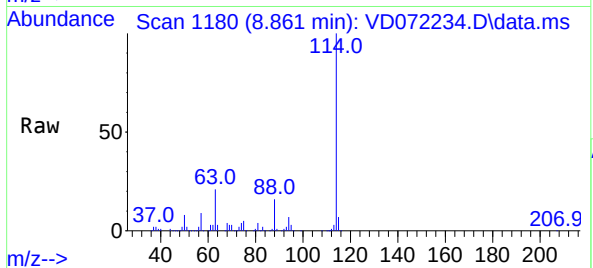
Tgt Ion:114 Resp: 648172

Ion Ratio Lower Upper

114 100

63 21.1 0.0 46.6

88 16.3 0.0 33.2



#35

Dibromofluoromethane

Concen: 44.632 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.000 min

Lab File: VD072234.D

Acq: 16 Mar 2022 22:45

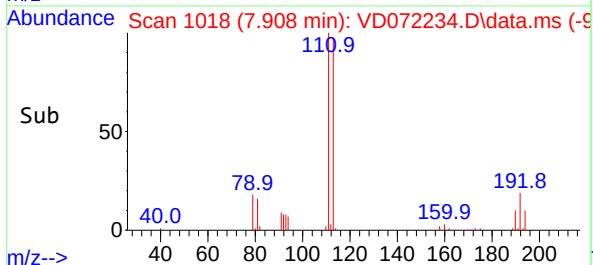
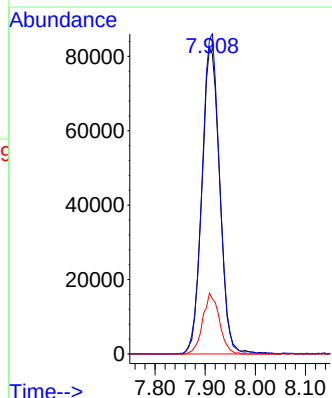
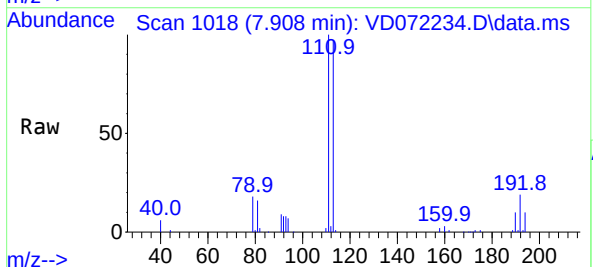
Tgt Ion:113 Resp: 203575

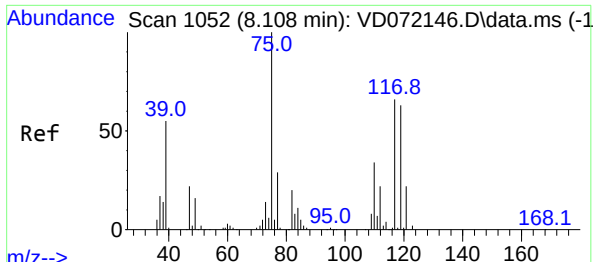
Ion Ratio Lower Upper

113 100

111 102.6 83.8 125.6

192 18.4 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.941 ug/l

RT: 7.973 min Scan# 10

Delta R.T. -0.135 min

Lab File: VD072234.D

Acq: 16 Mar 2022 22:45

Instrument :

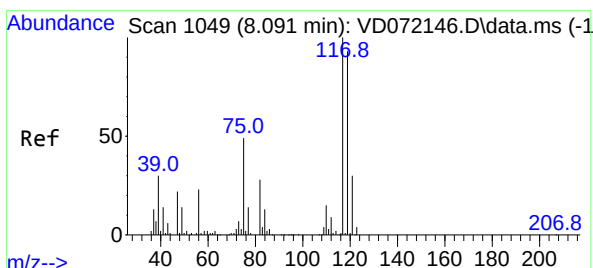
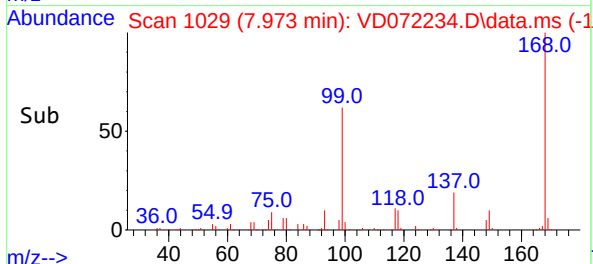
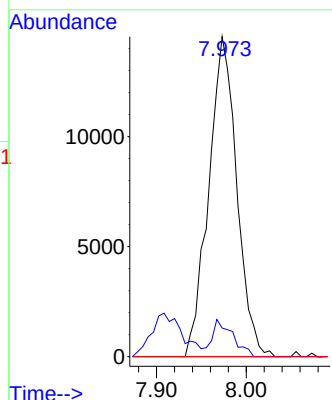
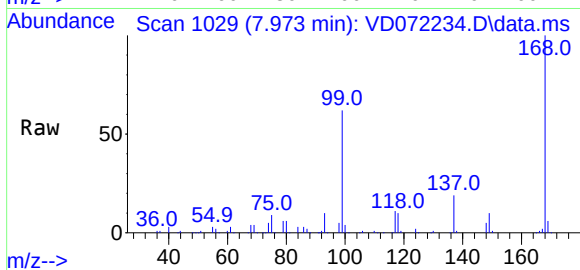
MSVOA\_D

ClientSampleId :

S-DRUM-C

Tgt Ion: 75 Resp: 31616

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 8.6   | 16.4  | 49.1# |
| 77  | 0.0   | 24.2  | 36.2# |



#38

Carbon Tetrachloride

Concen: 5.583 ug/l

RT: 7.979 min Scan# 1030

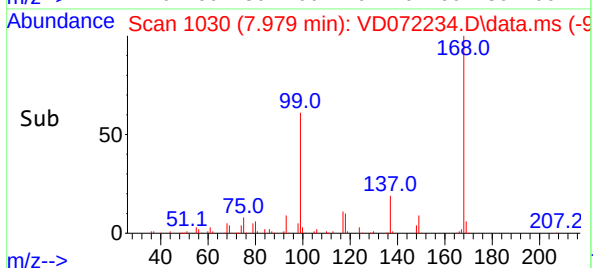
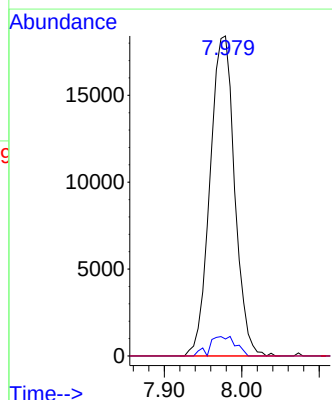
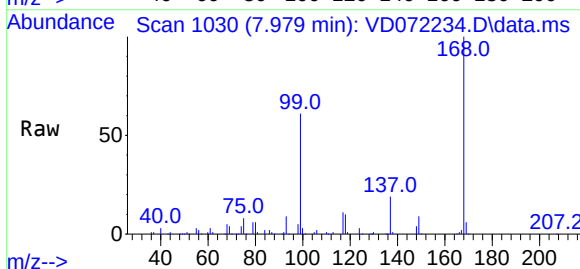
Delta R.T. -0.112 min

Lab File: VD072234.D

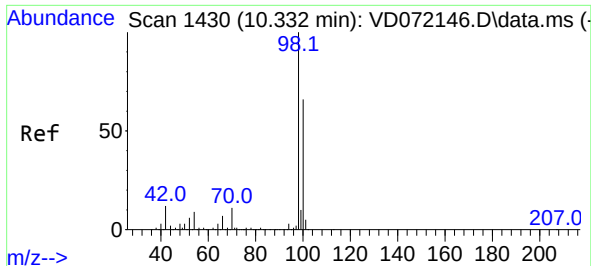
Acq: 16 Mar 2022 22:45

Tgt Ion: 117 Resp: 40608

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 5.3   | 75.8  | 113.6# |
| 121 | 0.0   | 24.5  | 36.7#  |



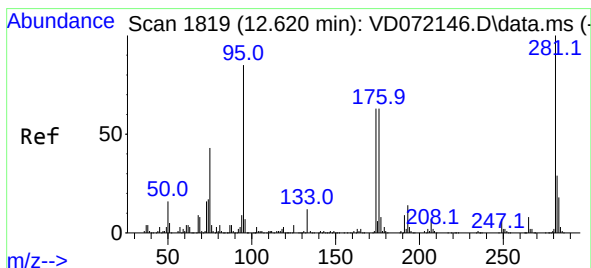
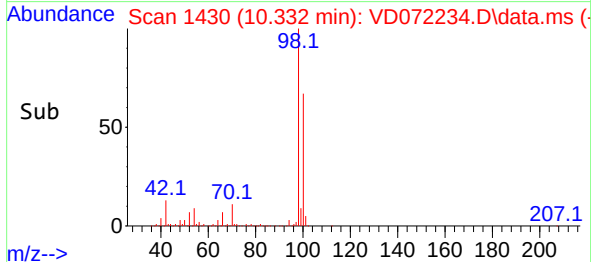
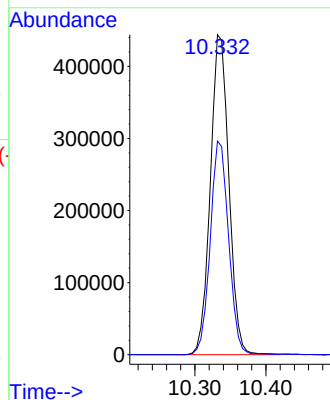
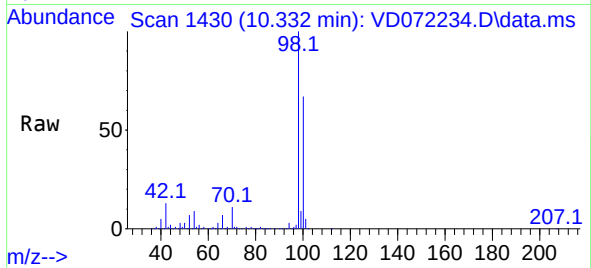




#50  
Toluene-d8  
Concen: 48.180 ug/l  
RT: 10.332 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

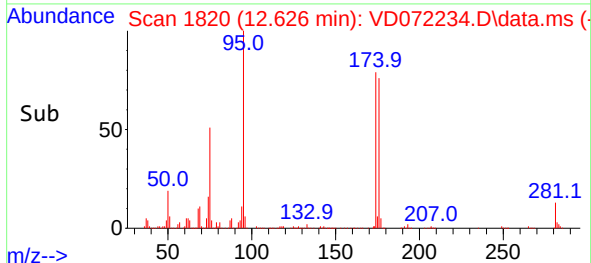
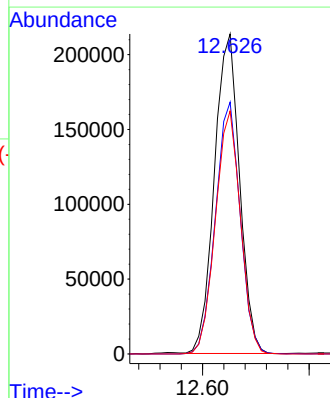
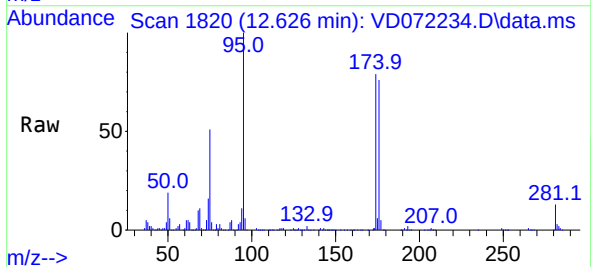
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-DRUM-C

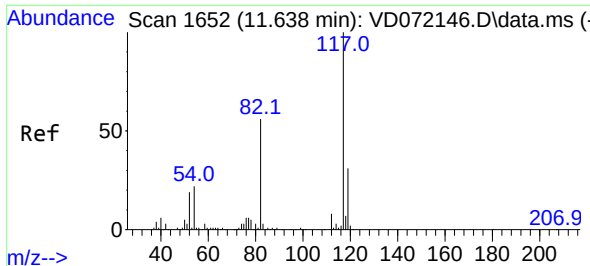
Tgt Ion: 98 Resp: 803564  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 53.931 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.006 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

Tgt Ion: 95 Resp: 349497  
Ion Ratio Lower Upper  
95 100  
174 77.7 0.0 152.8  
176 75.6 0.0 145.4

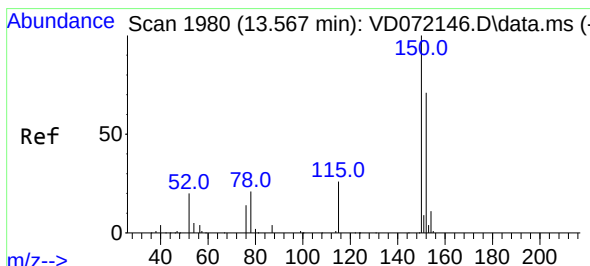
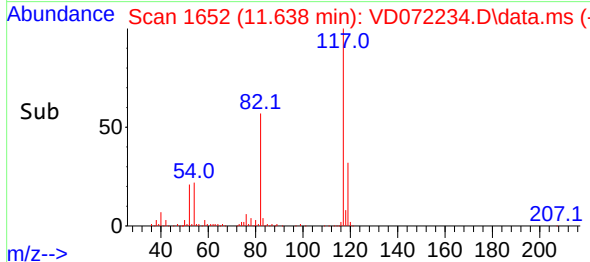
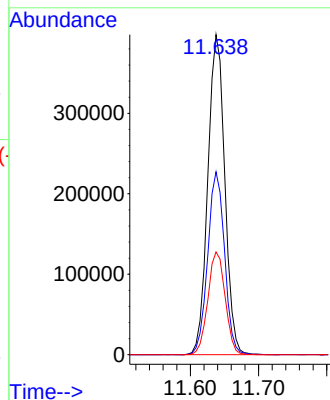
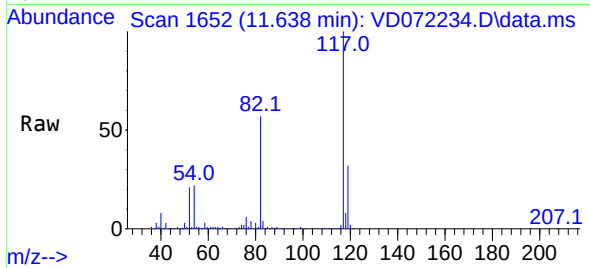




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

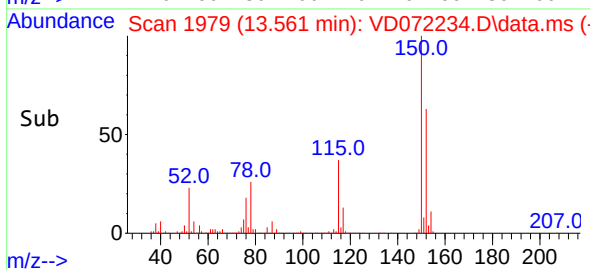
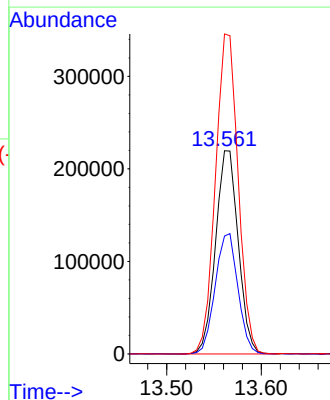
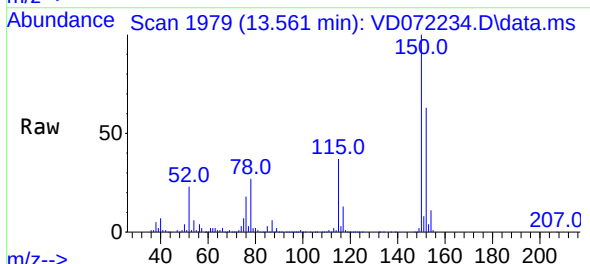
Instrument :  
MSVOA\_D  
ClientSampleId :  
S-DRUM-C

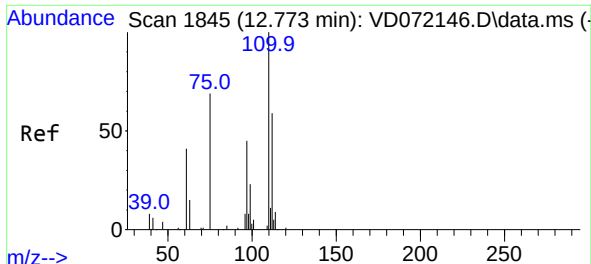
Tgt Ion:117 Resp: 689107  
Ion Ratio Lower Upper  
117 100  
82 57.2 45.3 67.9  
119 32.1 26.6 40.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. -0.006 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

Tgt Ion:152 Resp: 365961  
Ion Ratio Lower Upper  
152 100  
115 59.5 31.3 93.8  
150 157.6 0.0 348.6

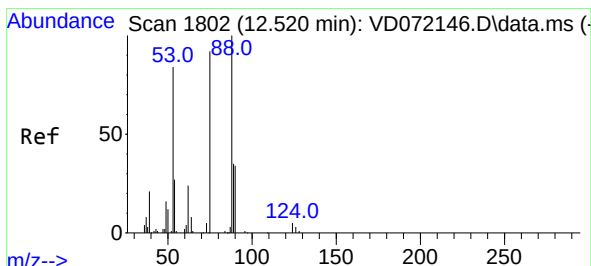
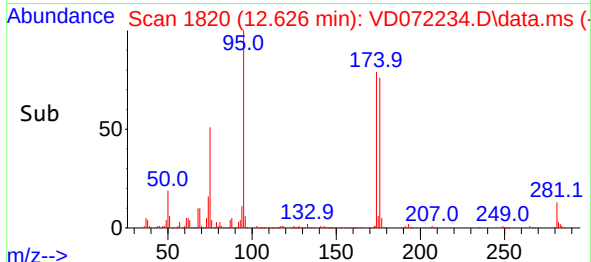
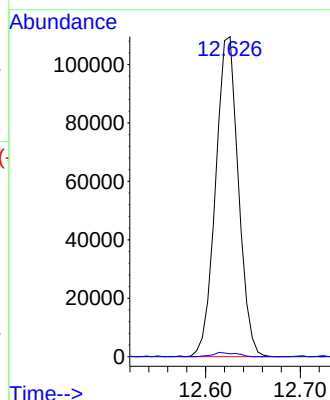
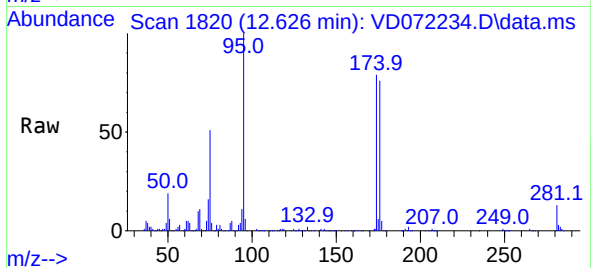




#76  
1,2,3-Trichloropropane  
Concen: 45.336 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
S-DRUM-C

Tgt Ion: 75 Resp: 183016  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 112.483 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD072234.D  
Acq: 16 Mar 2022 22:45

Tgt Ion: 75 Resp: 183016  
Ion Ratio Lower Upper  
75 100  
53 0.4 86.5 129.7#  
89 0.2 33.9 50.9#

