

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051222\  
 Data File : VD072960.D  
 Acq On : 12 May 2022 21:13  
 Operator : VA/SY  
 Sample : N2817-02  
 Misc : 4.25G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P007-SS018-0006-01

Quant Time: May 13 05:58:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 310031   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.855  | 114  | 551668   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 531414   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 202019   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 181005   | 44.976   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 89.960% |
| 35) Dibromofluoromethane    | 7.908  | 113   | 189773   | 48.981   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 97.960% |
| 50) Toluene-d8              | 10.332 | 98    | 673285   | 48.445   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 96.880% |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 220330   | 42.517   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 85.040% |

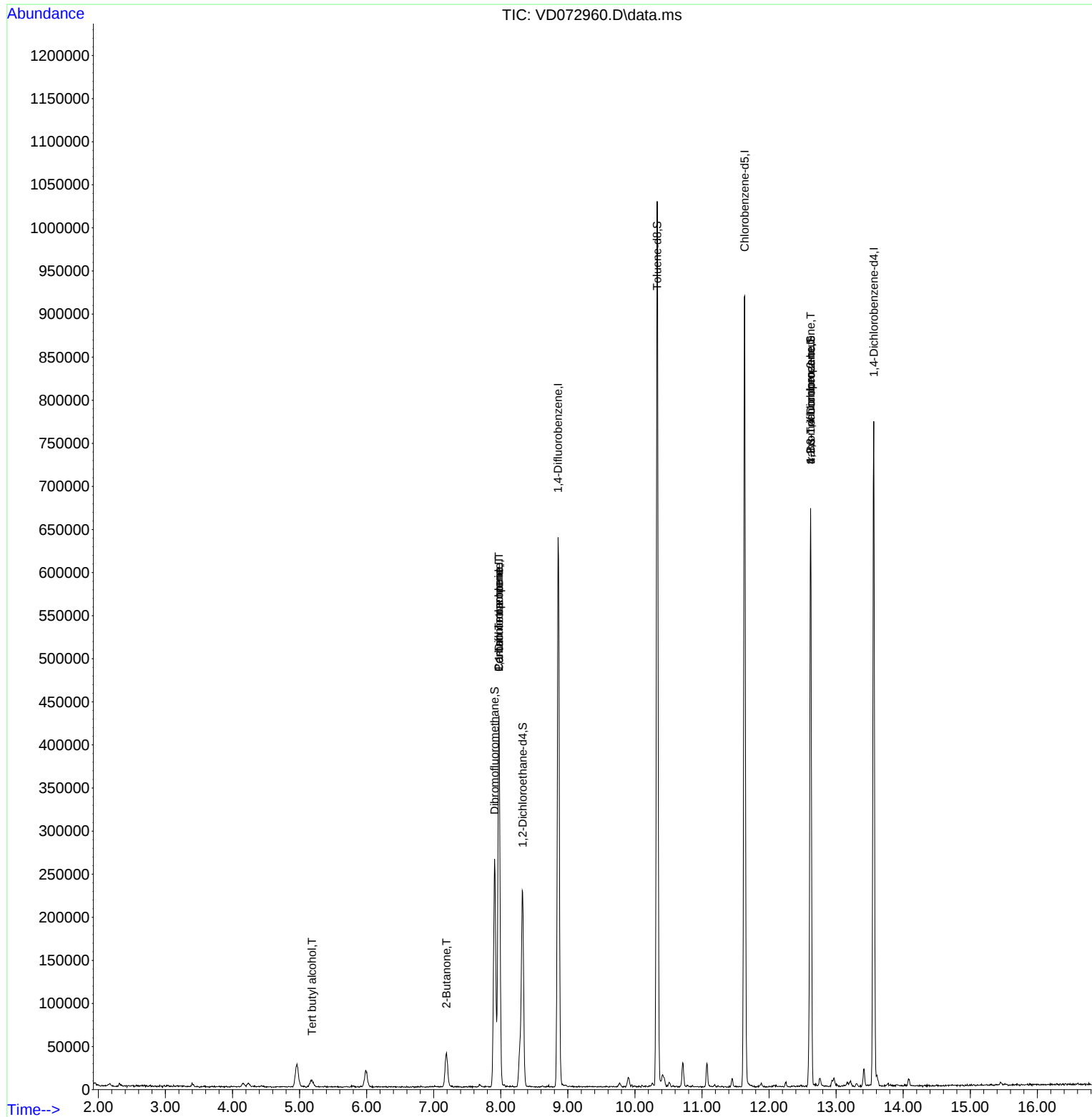
| Target Compounds              |        |     |        |           | Qvalue |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| 5) Bromomethane               | 2.779  | 94  | 680    | Below Cal | #      | 47  |
| 11) Tert butyl alcohol        | 5.185  | 59  | 8597   | 24.690    | ug/l # | 74  |
| 16) Acetone                   | 4.150  | 43  | 7966   | Below Cal | #      | 73  |
| 18) Methyl Acetate            | 4.561  | 43  | 67     | Below Cal | #      | 55  |
| 20) Methylene Chloride        | 4.961  | 84  | 20154  | Below Cal |        | 93  |
| 25) 2-Butanone                | 7.191  | 43  | 1740   | 1.484     | ug/l # | 52  |
| 36) 1,1-Dichloropropene       | 7.973  | 75  | 25151  | 3.992     | ug/l # | 53  |
| 38) Carbon Tetrachloride      | 7.973  | 117 | 34514  | 5.278     | ug/l # | 17  |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75  | 115228 | 51.152    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75  | 115228 | 117.630   | ug/l # | 7   |

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

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Response via : Initial Calibration





#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.973 min Scan# 10

Delta R.T. -0.006 min

Lab File: VD072960.D

Acq: 12 May 2022 21:13

Instrument :

MSVOA\_D

ClientSampleId :

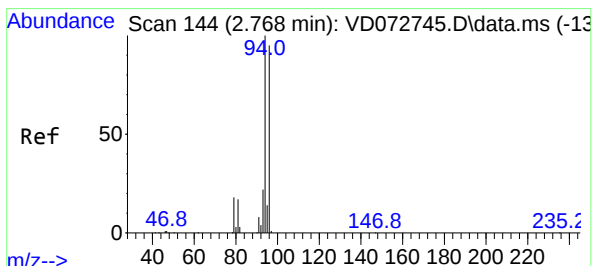
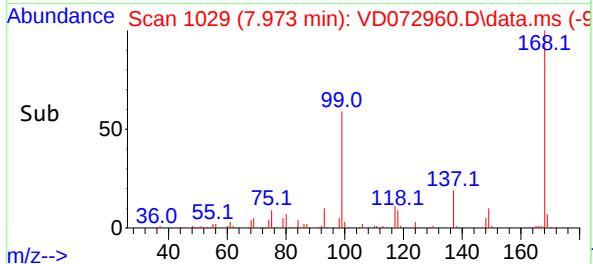
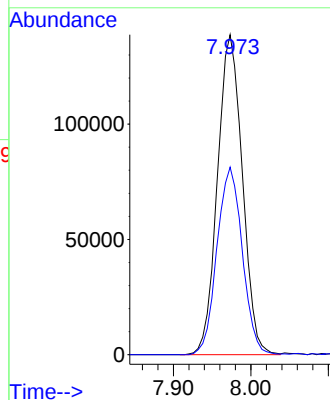
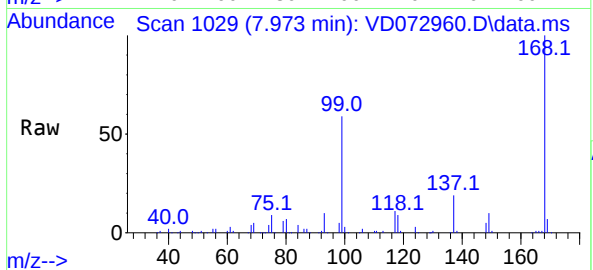
P007-SS018-0006-01

Tgt Ion:168 Resp: 310031

Ion Ratio Lower Upper

168 100

99 58.6 49.8 74.6



#5

Bromomethane

Concen: Below Cal

RT: 2.779 min Scan# 146

Delta R.T. 0.011 min

Lab File: VD072960.D

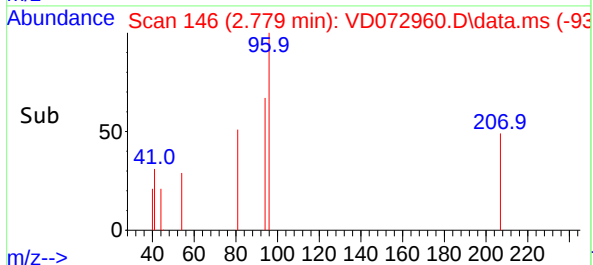
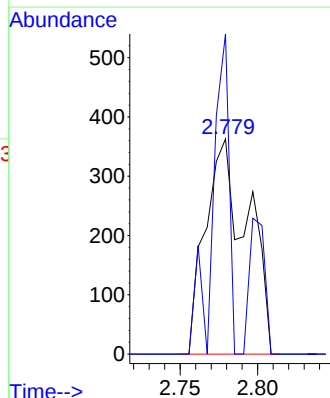
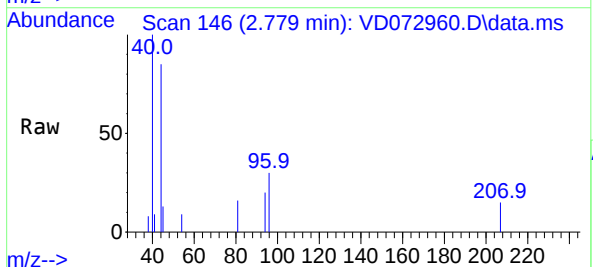
Acq: 12 May 2022 21:13

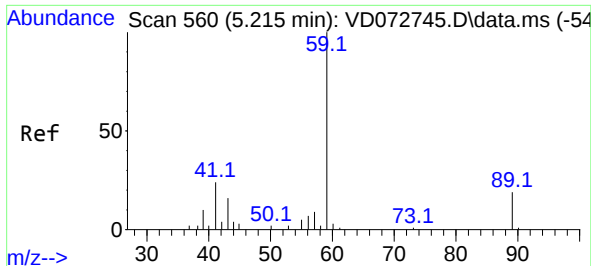
Tgt Ion: 94 Resp: 680

Ion Ratio Lower Upper

94 100

96 148.8 77.6 116.4#

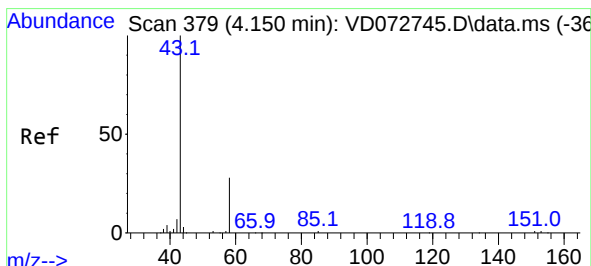
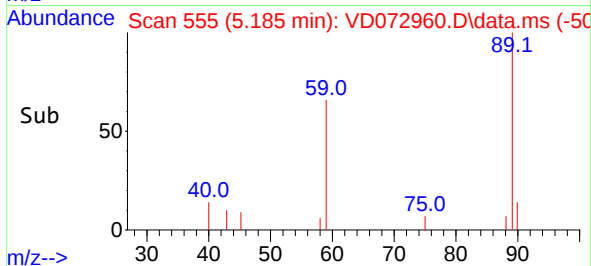
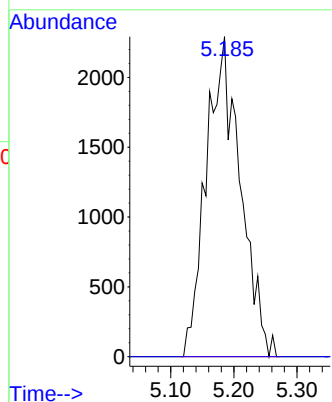
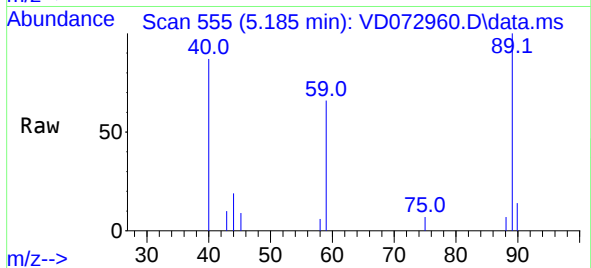




#11  
Tert butyl alcohol  
Concen: 24.690 ug/l  
RT: 5.185 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

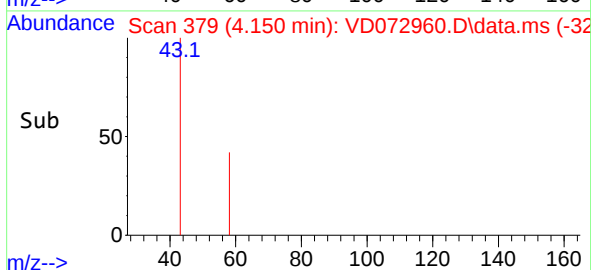
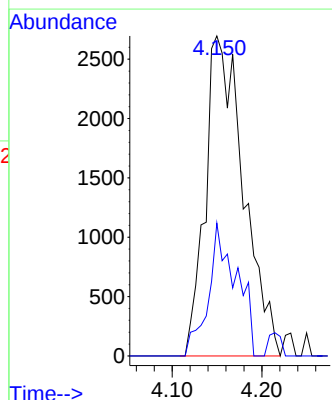
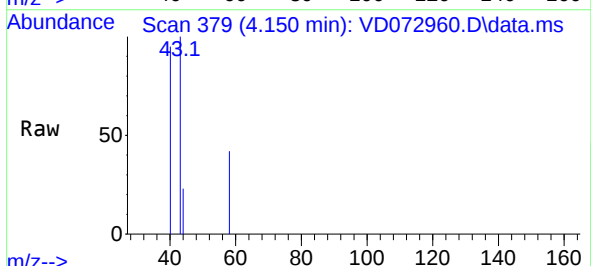
Instrument :  
MSVOA\_D  
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P007-SS018-0006-01

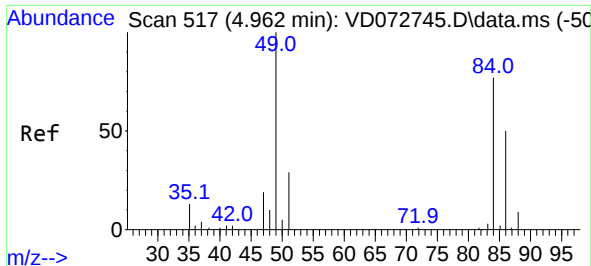
Tgt Ion: 59 Resp: 8597  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: Below Cal  
RT: 4.150 min Scan# 379  
Delta R.T. -0.000 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

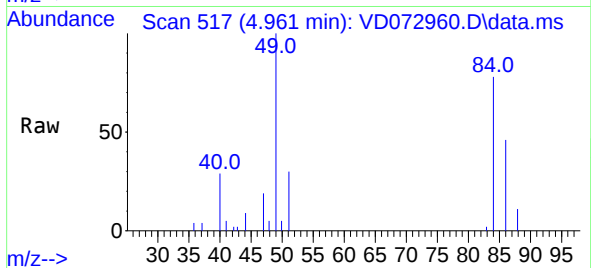
Tgt Ion: 43 Resp: 7966  
Ion Ratio Lower Upper  
43 100  
58 41.5 22.1 33.1#





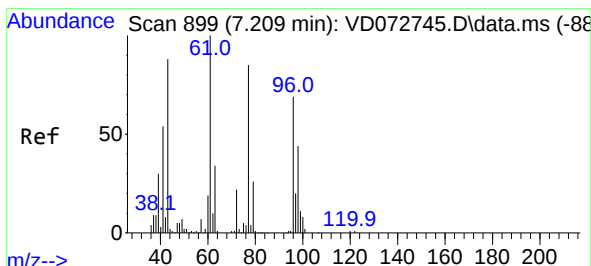
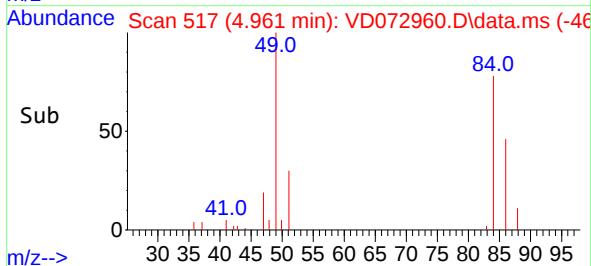
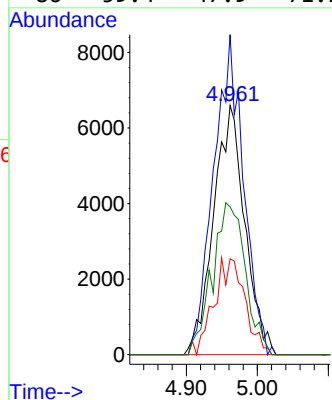
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.961 min Scan# 517  
Delta R.T. -0.001 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS018-0006-01



Tgt Ion: 84 Resp: 20154

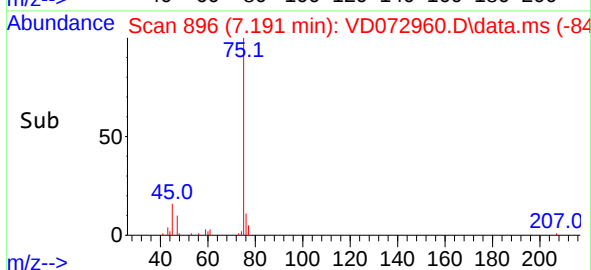
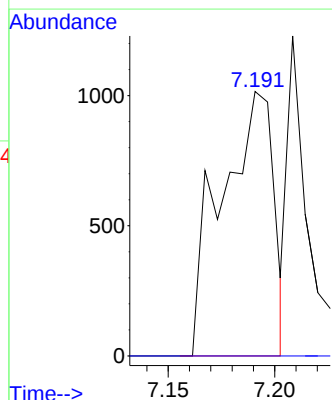
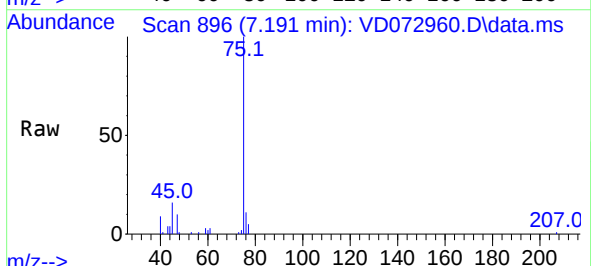
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 128.4 | 112.8 | 169.2 |
| 51  | 38.4  | 32.6  | 48.8  |
| 86  | 59.4  | 47.9  | 71.9  |

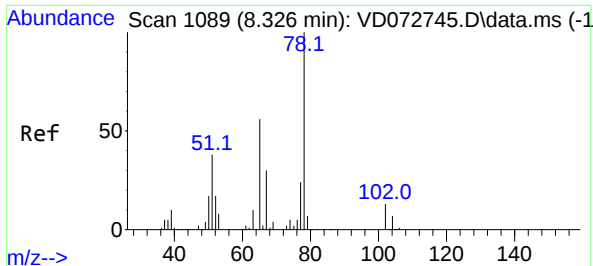


#25  
2-Butanone  
Concen: 1.484 ug/l  
RT: 7.191 min Scan# 896  
Delta R.T. -0.018 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

Tgt Ion: 43 Resp: 1740

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 18.6  | 27.8  |





#33

1,2-Dichloroethane-d4

Concen: 44.976 ug/l

RT: 8.326 min Scan# 1107

Delta R.T. 0.000 min

Lab File: VD072960.D

Acq: 12 May 2022 21:13

Instrument :

MSVOA\_D

ClientSampleId :

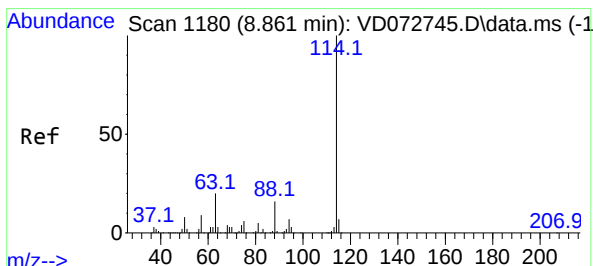
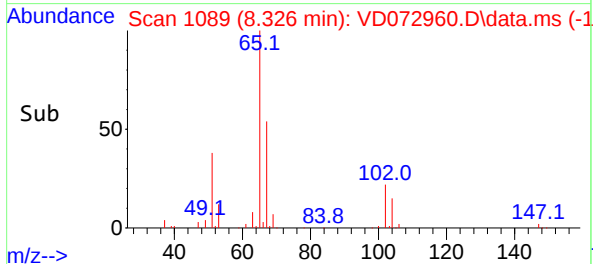
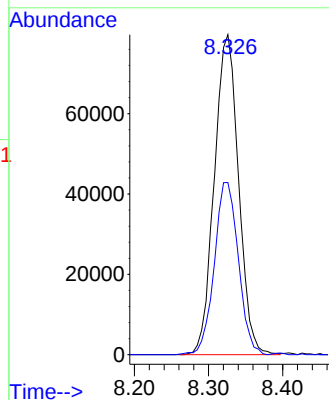
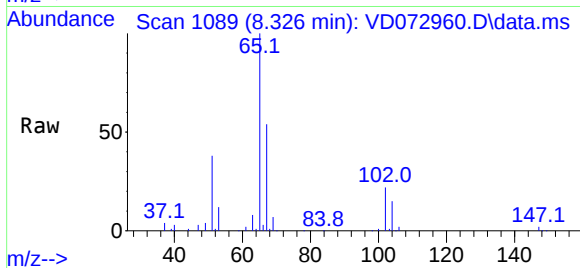
P007-SS018-0006-01

Tgt Ion: 65 Resp: 181005

Ion Ratio Lower Upper

65 100

67 53.4 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: VD072960.D

Acq: 12 May 2022 21:13

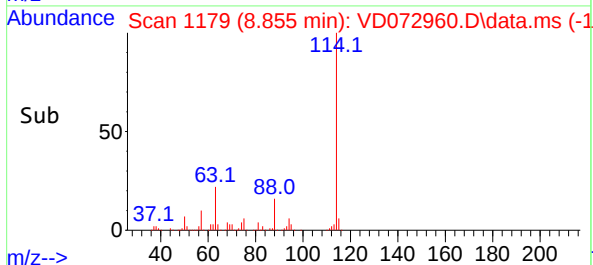
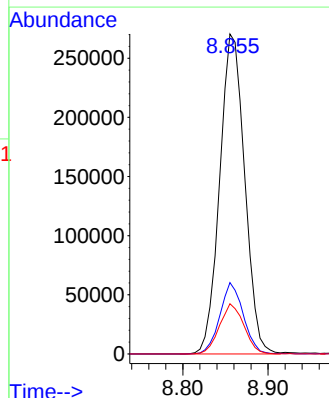
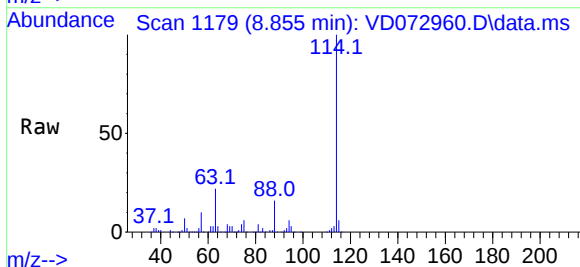
Tgt Ion: 114 Resp: 551668

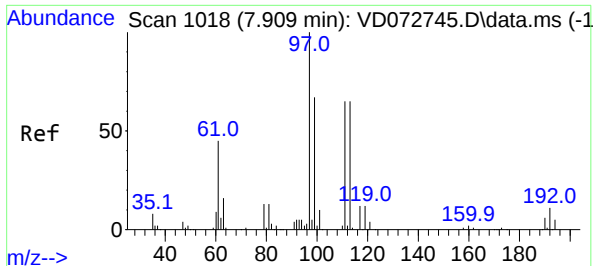
Ion Ratio Lower Upper

114 100

63 22.3 0.0 46.6

88 15.7 0.0 33.2

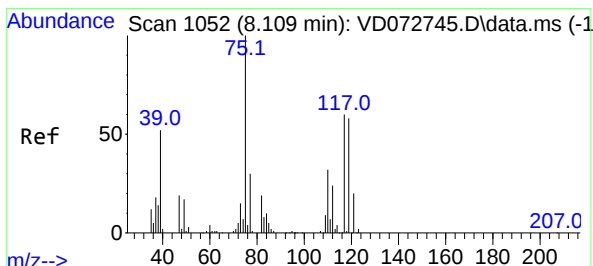
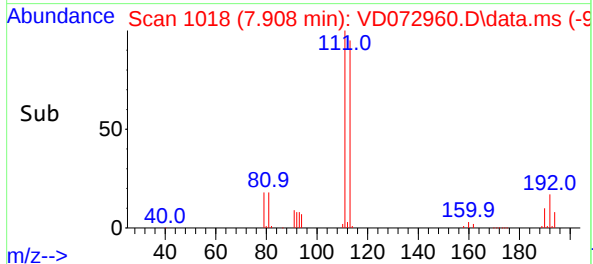
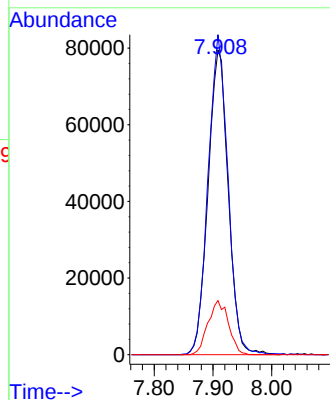
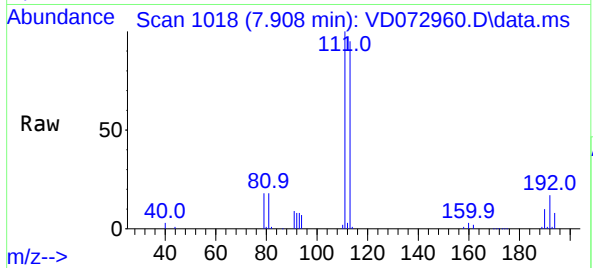




#35  
Dibromofluoromethane  
Concen: 48.981 ug/l  
RT: 7.908 min Scan# 1018  
Delta R.T. -0.001 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

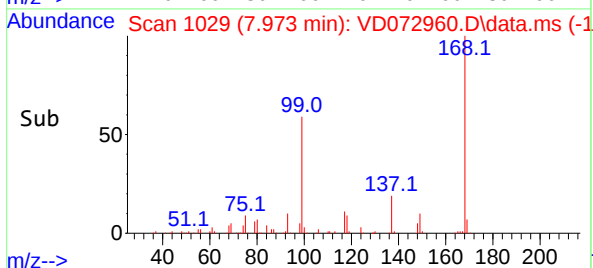
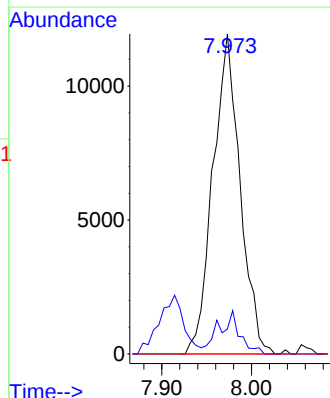
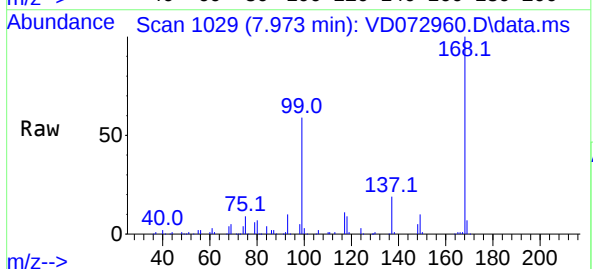
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MSVOA\_D  
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P007-SS018-0006-01

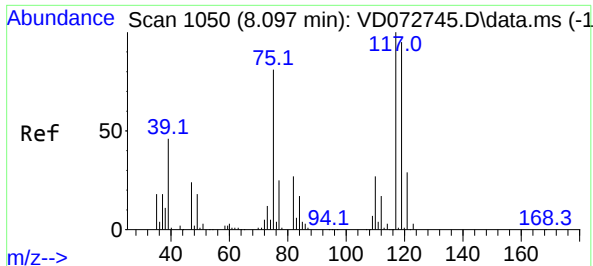
Tgt Ion:113 Resp: 189773  
Ion Ratio Lower Upper  
113 100  
111 102.7 83.8 125.6  
192 18.0 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 3.992 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.136 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

Tgt Ion: 75 Resp: 25151  
Ion Ratio Lower Upper  
75 100  
110 10.4 16.4 49.1#  
77 0.0 24.2 36.2#

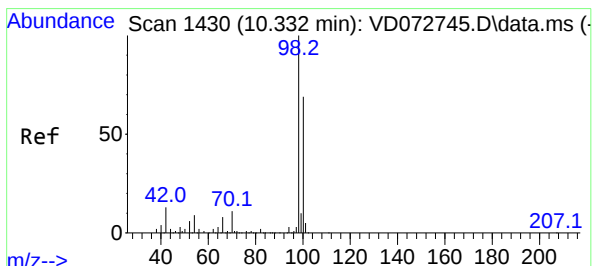
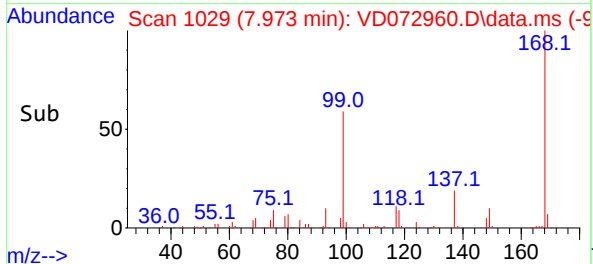
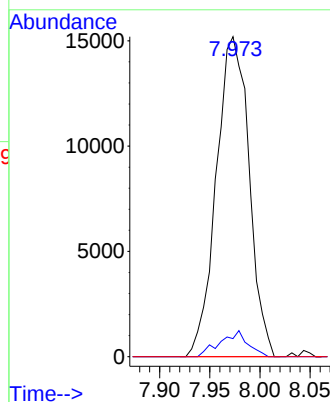
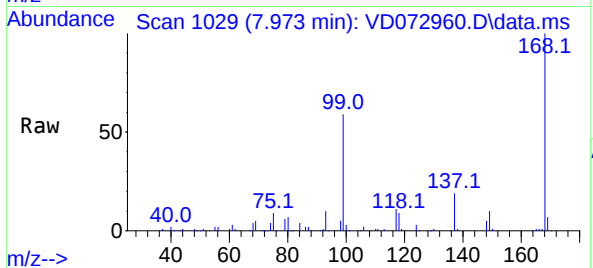




#38  
Carbon Tetrachloride  
Concen: 5.278 ug/l  
RT: 7.973 min Scan# 1050  
Delta R.T. -0.124 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

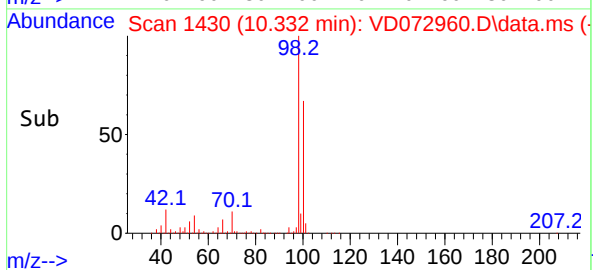
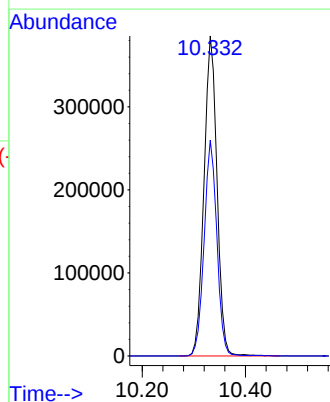
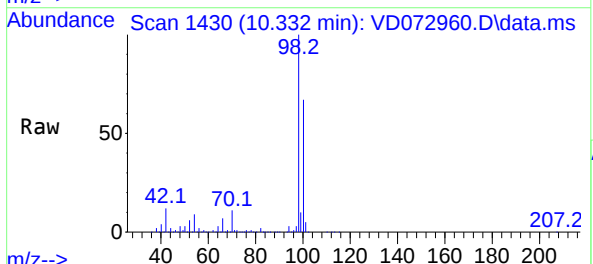
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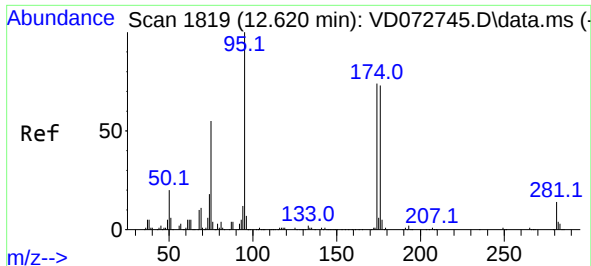
Tgt Ion:117 Resp: 34514  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 48.445 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

Tgt Ion: 98 Resp: 673285  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.4 78.6

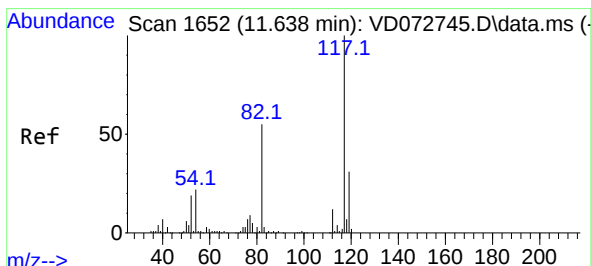
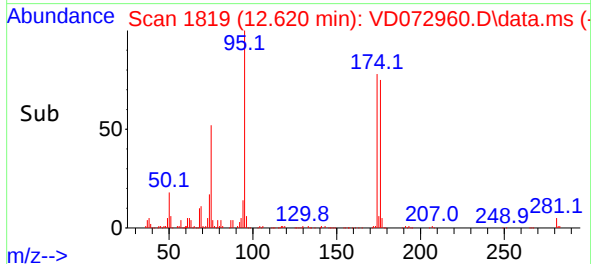
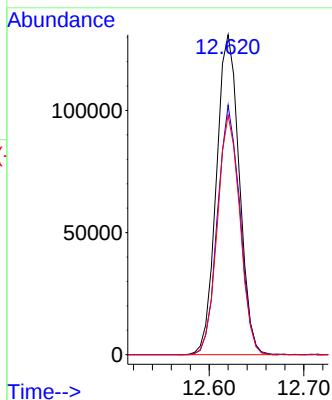
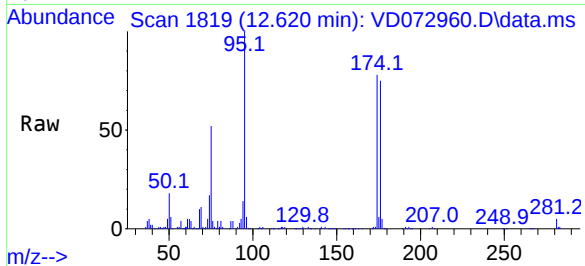




#62  
4-Bromofluorobenzene  
Concen: 42.517 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

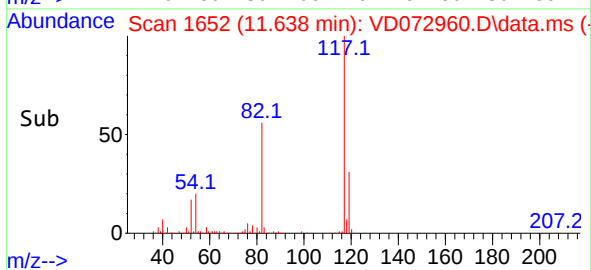
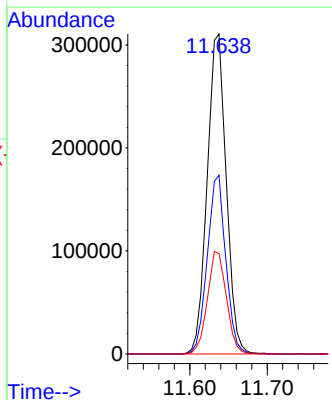
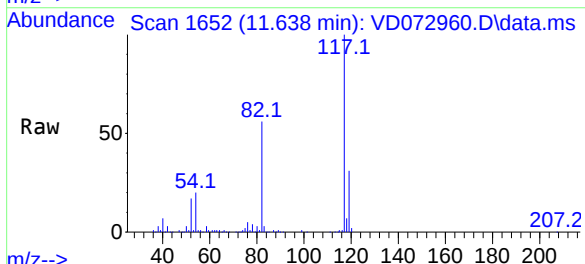
Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS018-0006-01

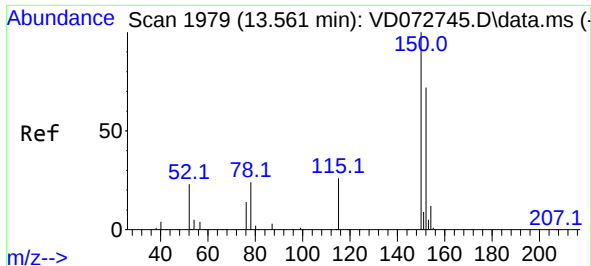
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 220330 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 76.2  | 0.0   | 152.8  |
| 176      | 73.5  | 0.0   | 145.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 531414 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 55.9  | 45.3  | 67.9   |
| 119      | 31.4  | 26.6  | 40.0   |

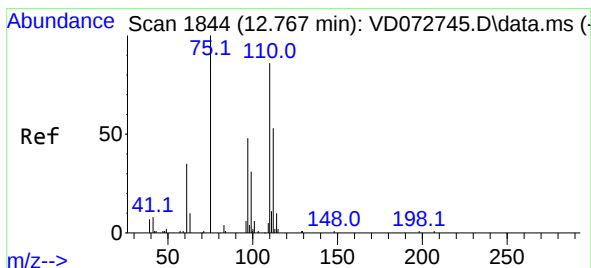
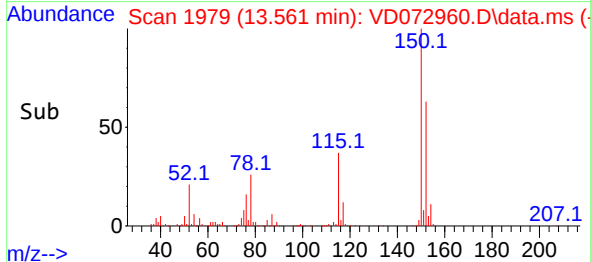
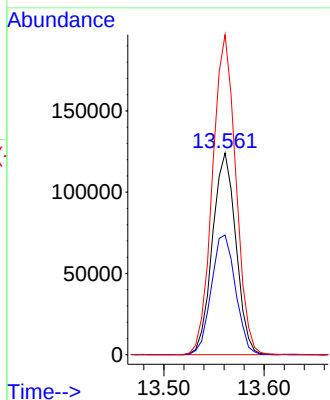
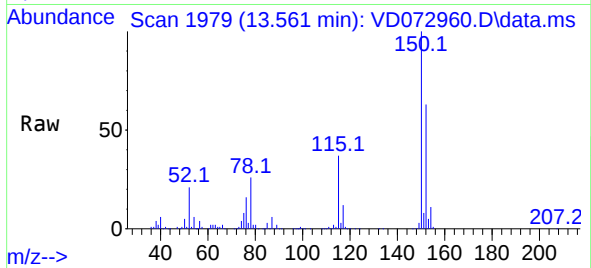




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

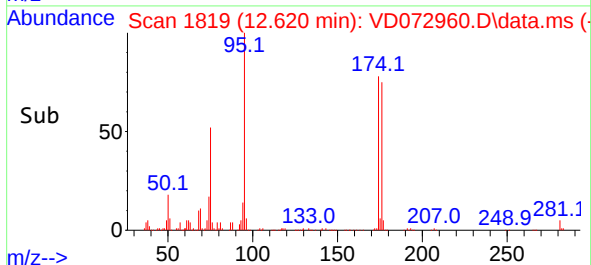
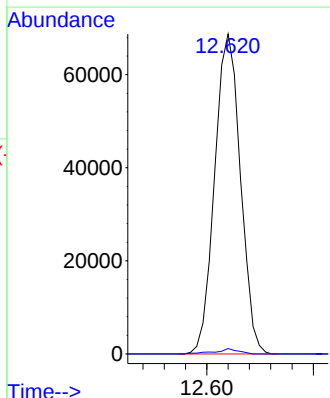
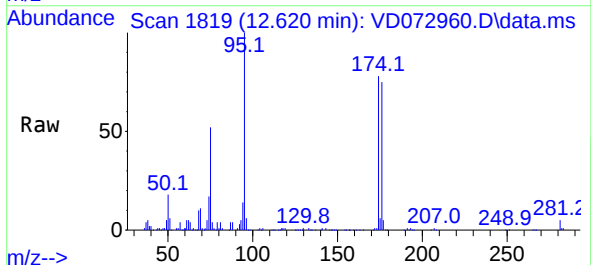
Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS018-0006-01

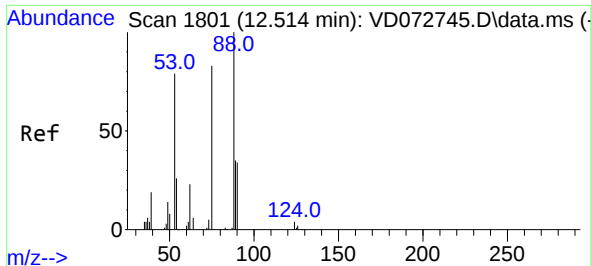
Tgt Ion:152 Resp: 202019  
Ion Ratio Lower Upper  
152 100  
115 61.2 31.3 93.8  
150 157.8 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 51.152 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD072960.D  
Acq: 12 May 2022 21:13

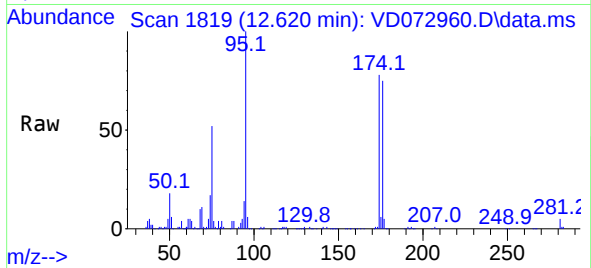
Tgt Ion: 75 Resp: 115228  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 117.630 ug/l  
 RT: 12.620 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD072960.D  
 Acq: 12 May 2022 21:13

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P007-SS018-0006-01



Tgt Ion: 75 Resp: 115228  
 Ion Ratio Lower Upper  
 75 100  
 53 0.6 86.5 129.7#  
 89 0.0 33.9 50.9#

