

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022822\  
 Data File : VD072121.D  
 Acq On : 28 Feb 2022 14:31  
 Operator : VA/SY  
 Sample : N1678-01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OK-02-022522

Quant Time: Mar 01 08:12:51 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

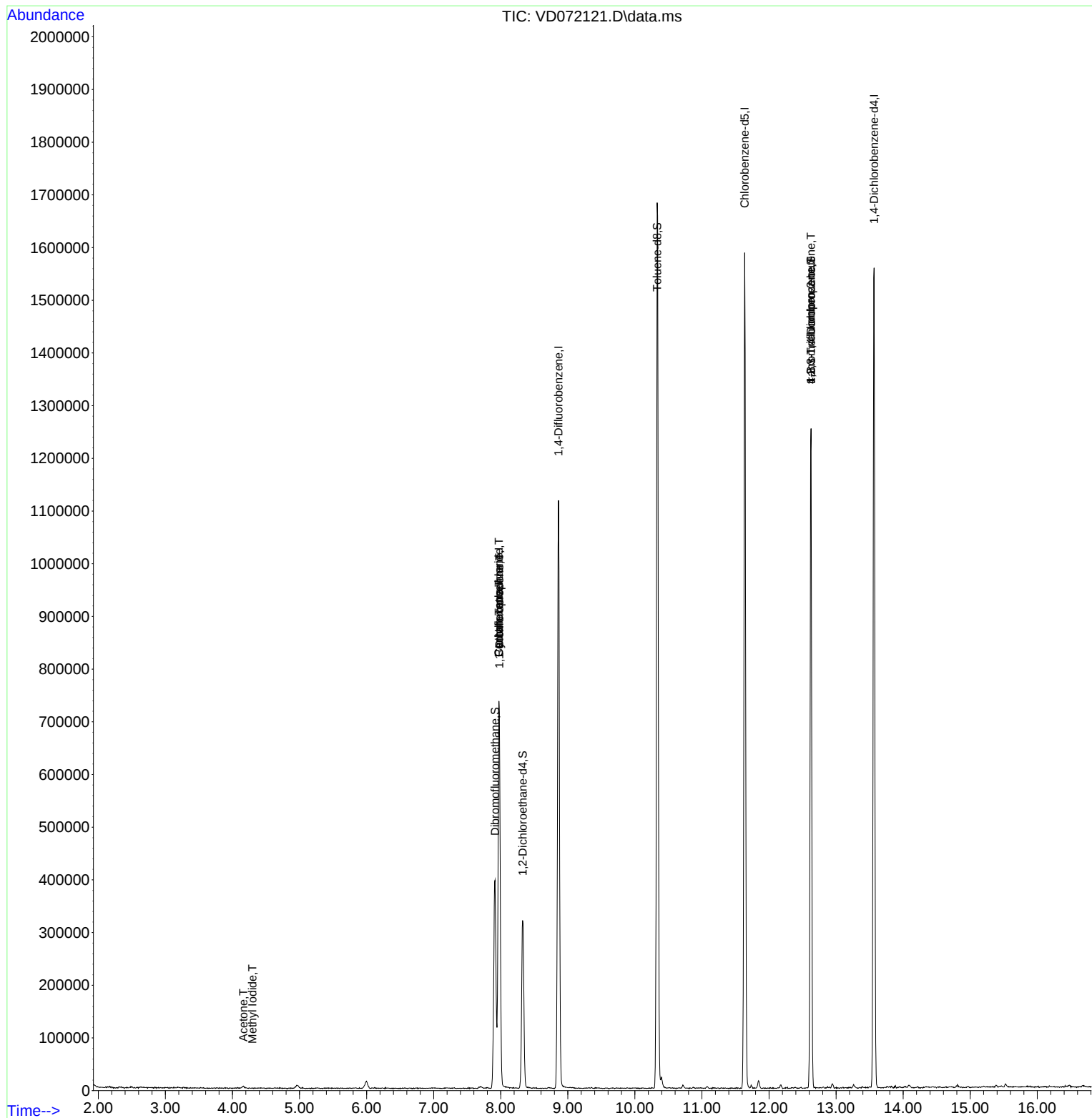
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 537265              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 936485              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 900493              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 416241              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 262939              | 47.181    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 94.360%  |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 286159              | 50.434    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 100.860% |           |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 1145968             | 54.463    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 108.920% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 407895              | 52.775    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 105.540% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
| 5) Bromomethane               | 2.750          | 94   | 66                  | Below Cal | #      | 2        |
| 10) Methyl Iodide             | 4.297          | 142  | 410                 | 2.987     | ug/l # | 62       |
| 16) Acetone                   | 4.162          | 43   | 6854                | 5.691     | ug/l   | 92       |
| 18) Methyl Acetate            | 4.703          | 43   | 55                  | Below Cal | #      | 52       |
| 31) Cyclohexane               | 7.973          | 56   | 12930               | 1.314     | ug/l # | 12       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 45534               | 5.298     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 56367               | 6.399     | ug/l # | 18       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 212506              | 53.898    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 212506              | 134.973   | ug/l # | 10       |
| -----                         |                |      |                     |           |        |          |

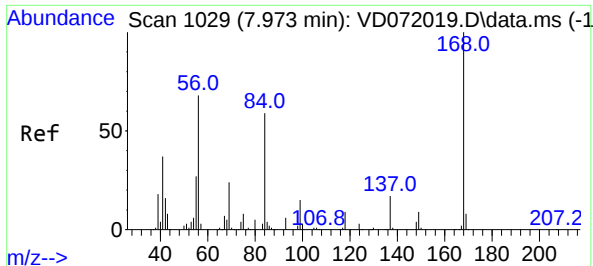
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-022522

Quant Time: Mar 01 08:12:51 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 19 04:05:38 2022  
Response via : Initial Calibration

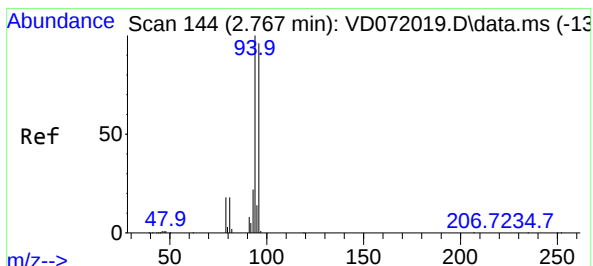
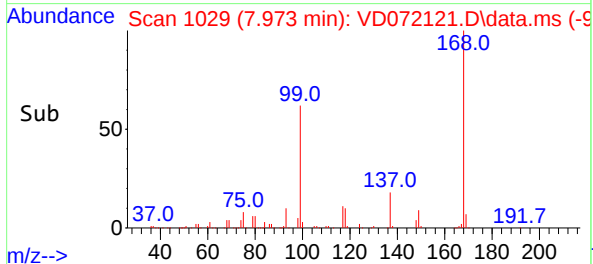
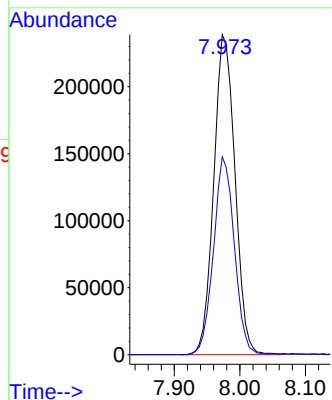
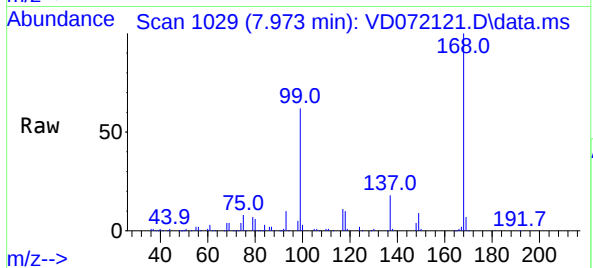




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

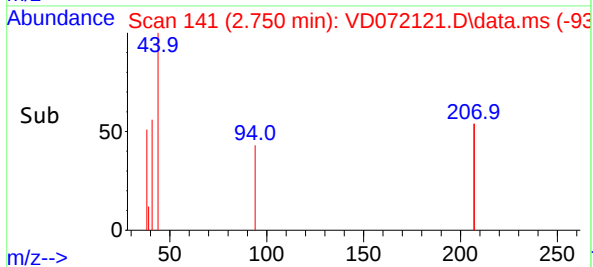
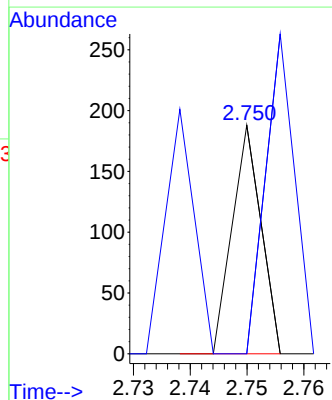
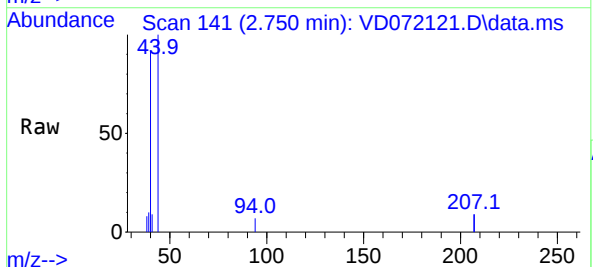
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-022522

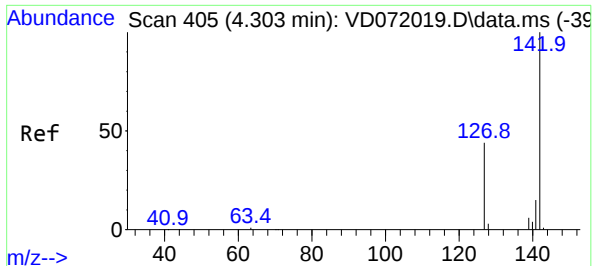
Tgt Ion:168 Resp: 537265  
Ion Ratio Lower Upper  
168 100  
99 61.8 47.1 70.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.750 min Scan# 141  
Delta R.T. -0.017 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 94 Resp: 66  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.8 115.2#

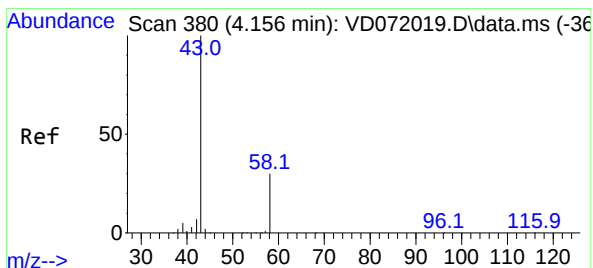
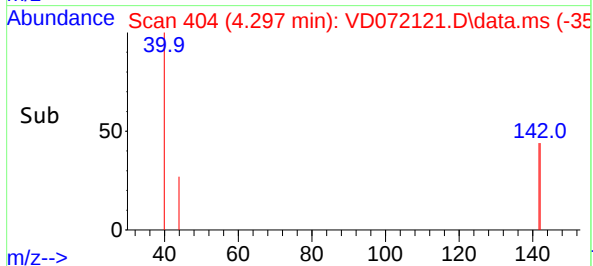
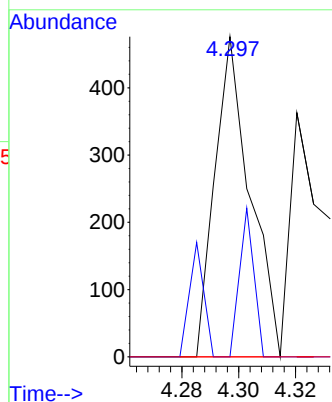
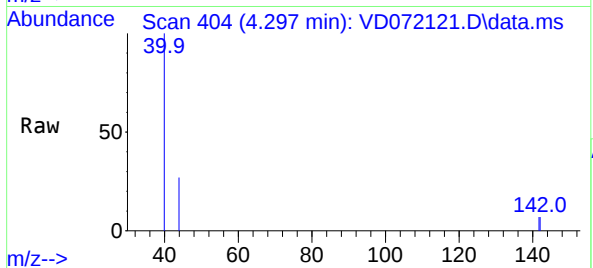




#10  
Methyl Iodide  
Concen: 2.987 ug/l  
RT: 4.297 min Scan# 405  
Delta R.T. -0.006 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

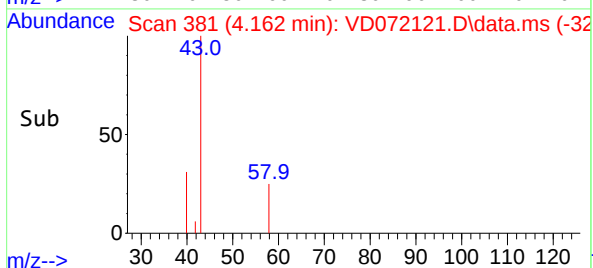
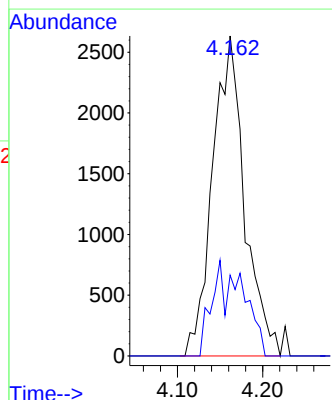
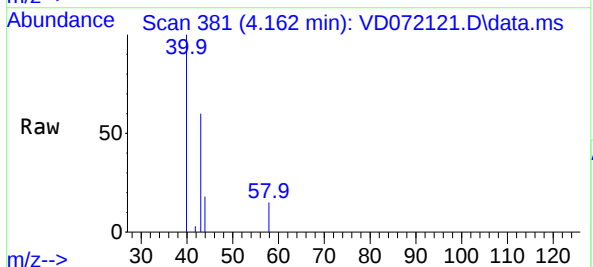
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-022522

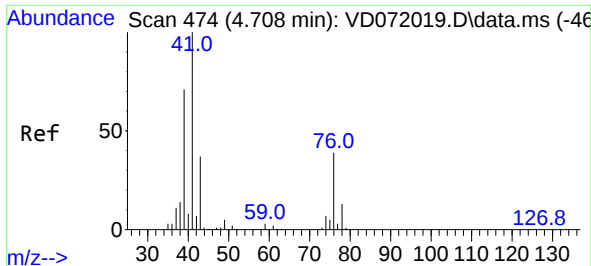
Tgt Ion:142 Resp: 410  
Ion Ratio Lower Upper  
142 100  
127 19.0 35.8 53.8#  
141 0.0 11.6 17.4#



#16  
Acetone  
Concen: 5.691 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 43 Resp: 6854  
Ion Ratio Lower Upper  
43 100  
58 25.2 23.8 35.6

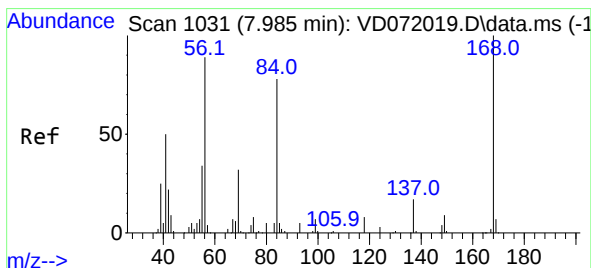
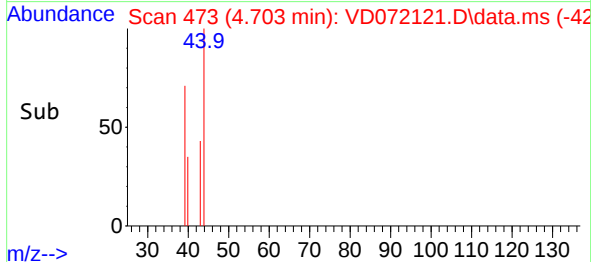
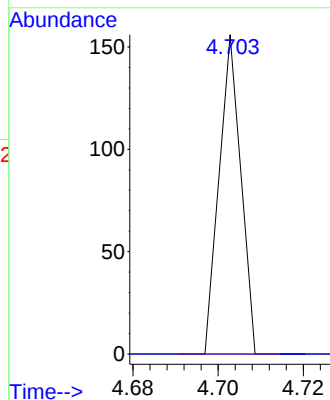
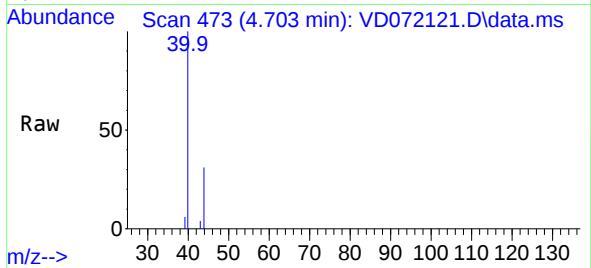




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.703 min Scan# 41  
Delta R.T. -0.005 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

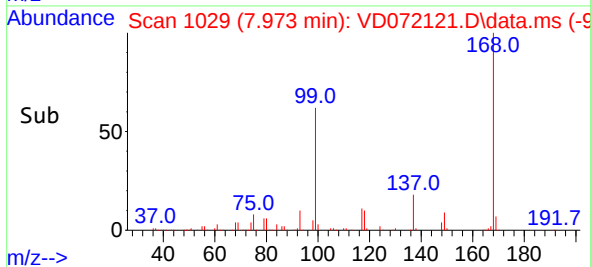
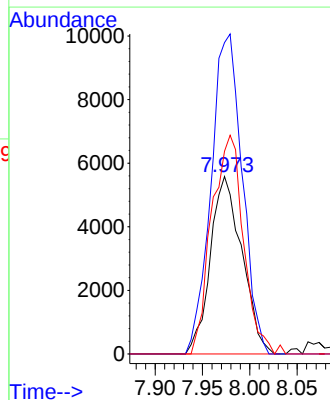
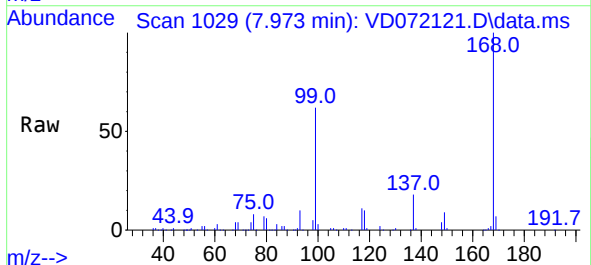
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-022522

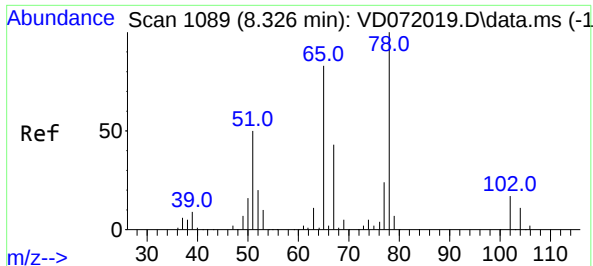
Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 27.8#



#31  
Cyclohexane  
Concen: 1.314 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 56 Resp: 12930  
Ion Ratio Lower Upper  
56 100  
69 175.4 28.9 43.3#  
84 114.2 70.6 105.8#

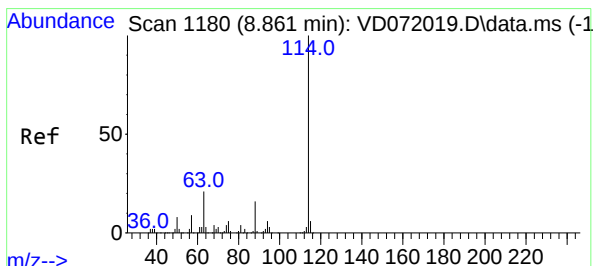
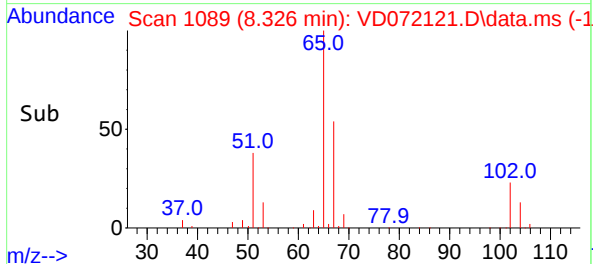
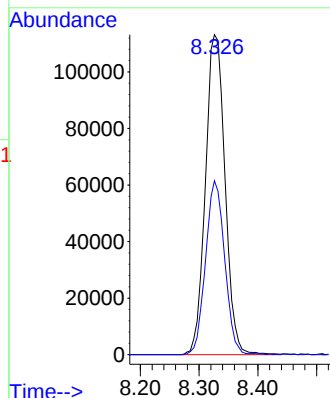
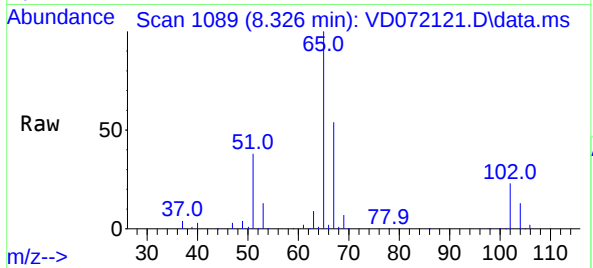




#33  
1,2-Dichloroethane-d4  
Concen: 47.181 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

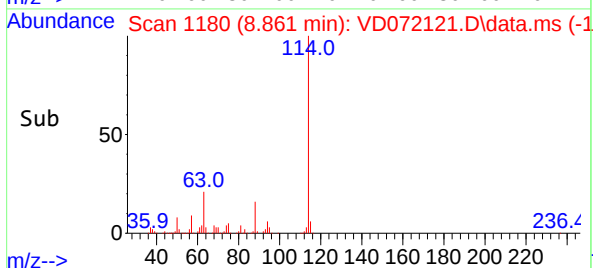
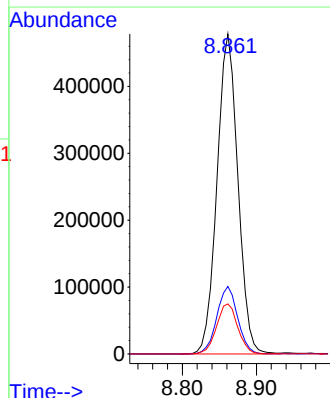
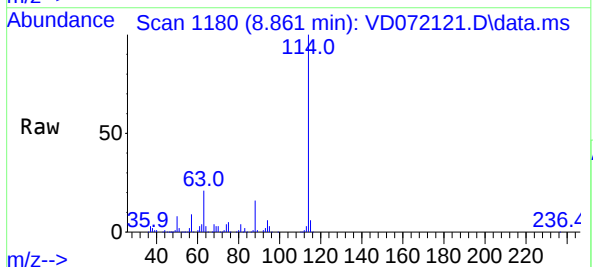
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MSVOA\_D  
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OK-02-022522

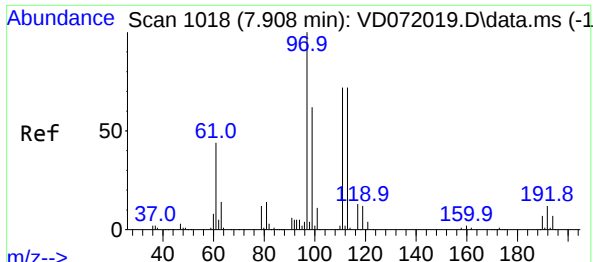
Tgt Ion: 65 Resp: 262939  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 105.6



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 114 Resp: 936485  
Ion Ratio Lower Upper  
114 100  
63 21.1 0.0 42.2  
88 15.7 0.0 31.2

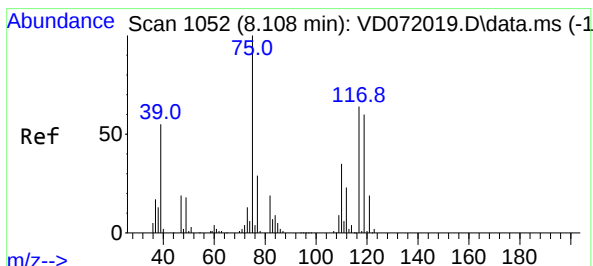
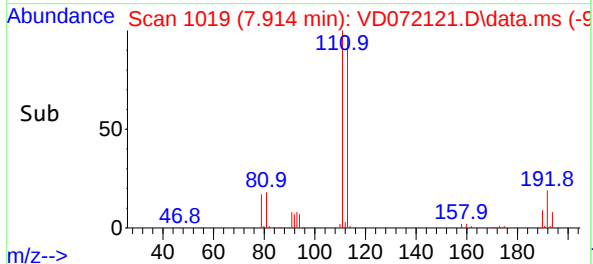
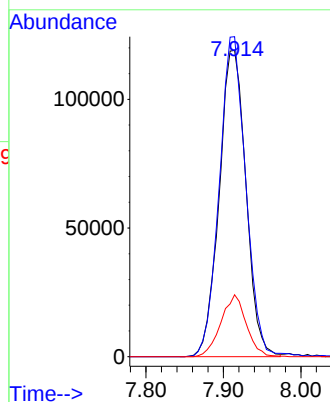
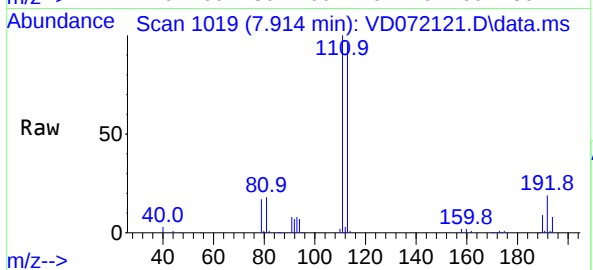




#35  
Dibromofluoromethane  
Concen: 50.434 ug/l  
RT: 7.914 min Scan# 1030  
Delta R.T. 0.006 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

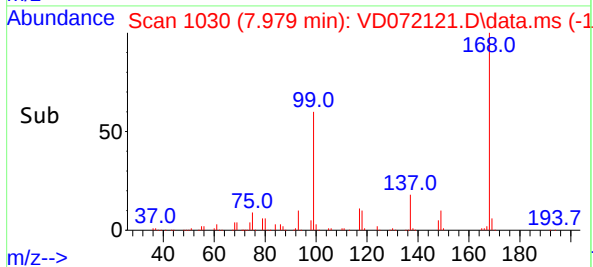
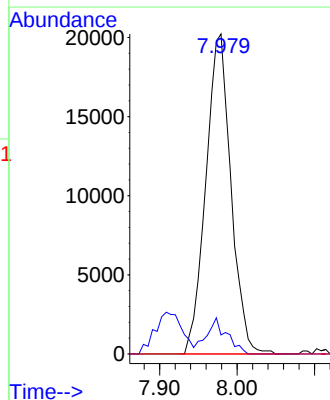
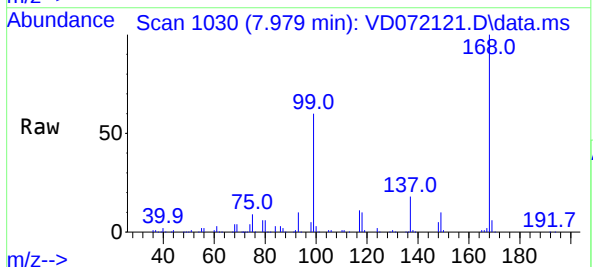
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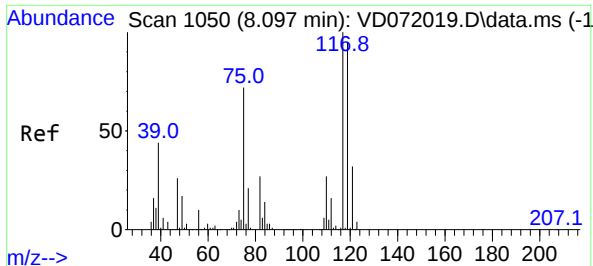
Tgt Ion:113 Resp: 286159  
Ion Ratio Lower Upper  
113 100  
111 103.4 83.0 124.4  
192 19.2 15.3 22.9



#36  
1,1-Dichloropropene  
Concen: 5.298 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 75 Resp: 45534  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.7 53.1#  
77 0.0 24.8 37.2#

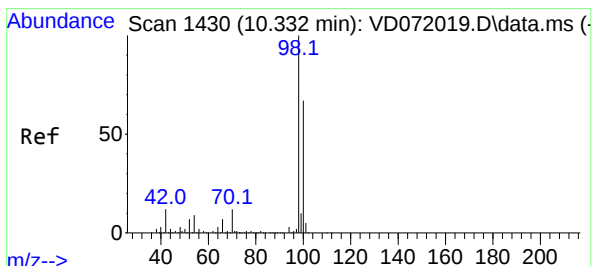
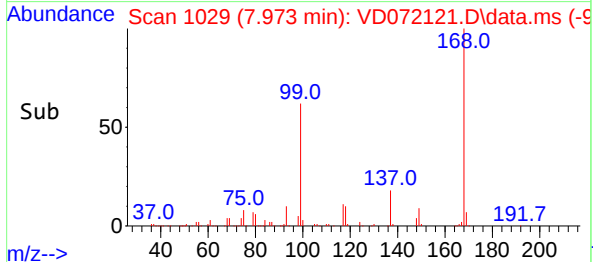
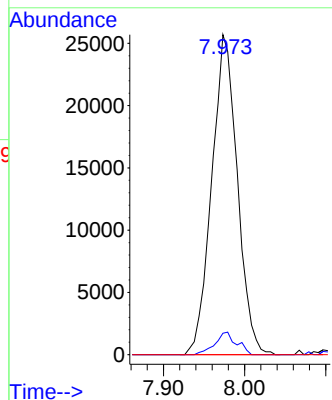
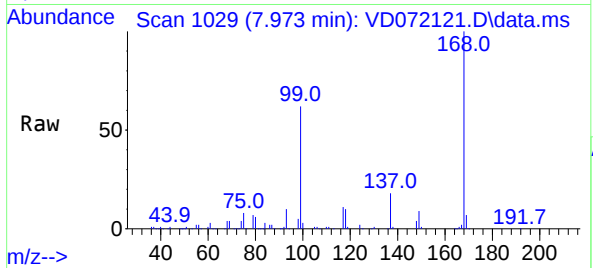




#38  
Carbon Tetrachloride  
Concen: 6.399 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.123 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

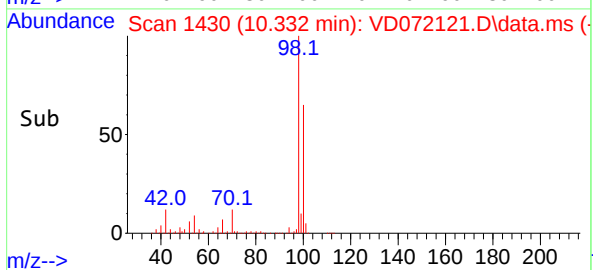
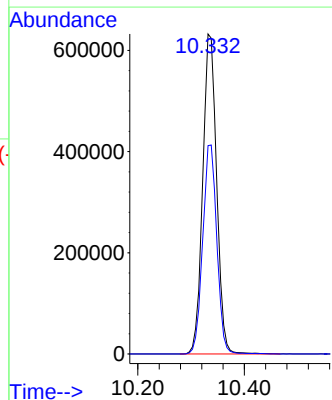
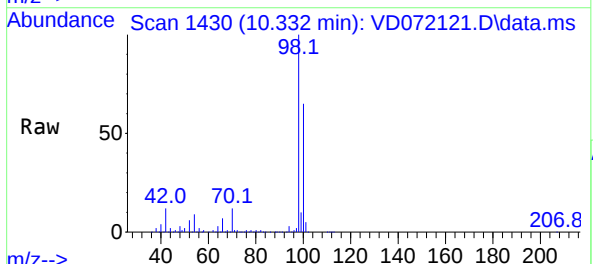
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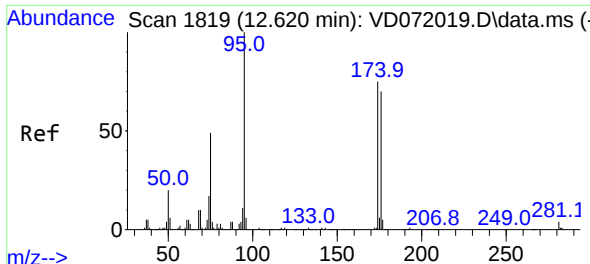
Tgt Ion:117 Resp: 56367  
Ion Ratio Lower Upper  
117 100  
119 6.7 75.8 113.8#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 54.463 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 98 Resp: 1145968  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.8 80.6



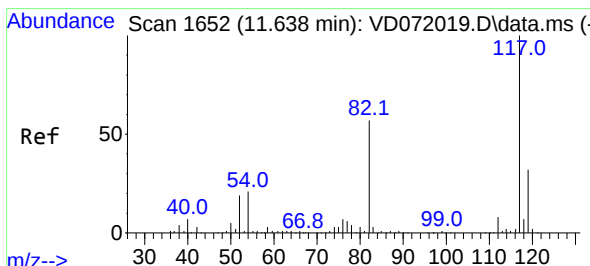
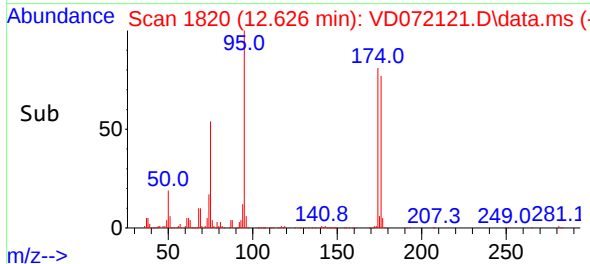
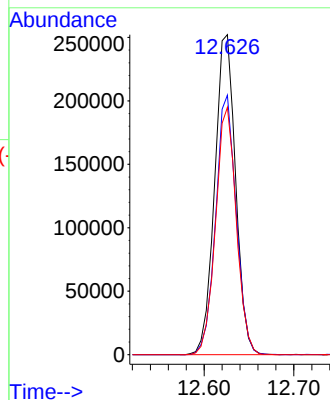
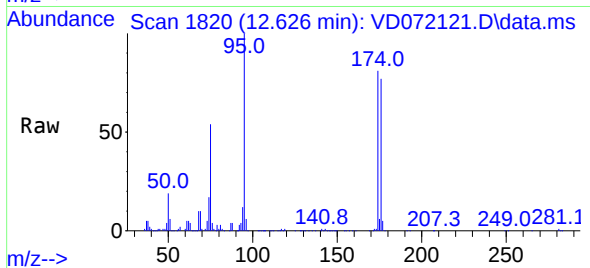


#62  
4-Bromofluorobenzene  
Concen: 52.775 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Instrument : MSVOA\_D  
ClientSampleId : OK-02-022522

Tgt Ion: 95 Resp: 407895

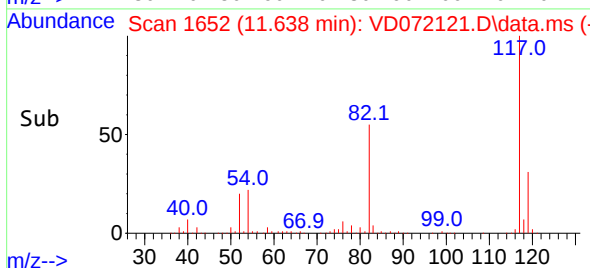
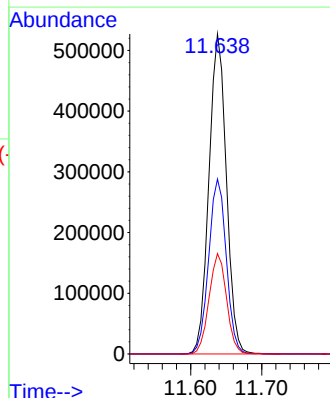
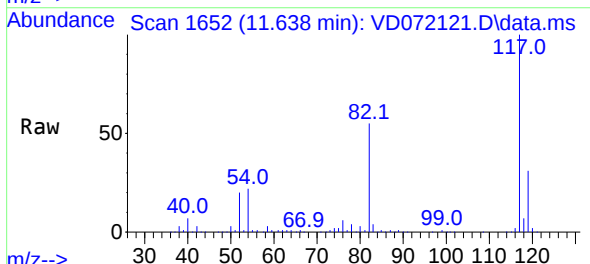
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 79.7  | 0.0   | 155.0 |
| 176 | 76.5  | 0.0   | 148.8 |

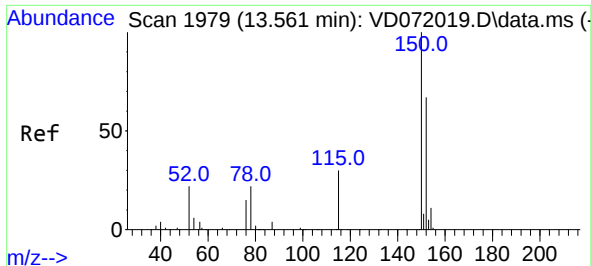


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Tgt Ion: 117 Resp: 900493

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 54.6  | 45.4  | 68.0  |
| 119 | 31.4  | 25.4  | 38.2  |

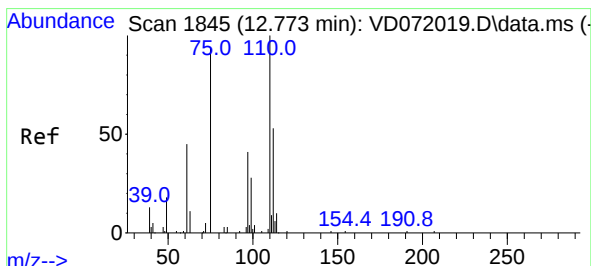
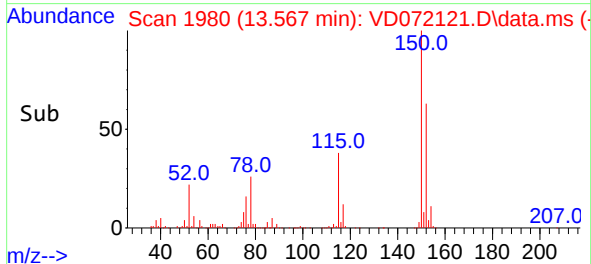
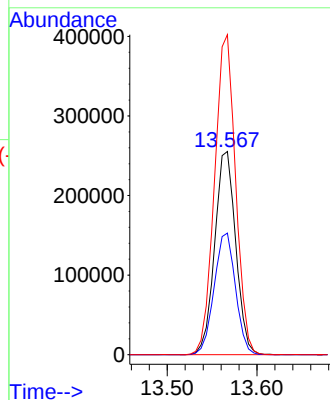
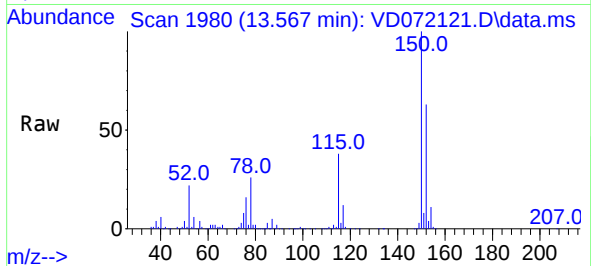




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1979  
Delta R.T. 0.006 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

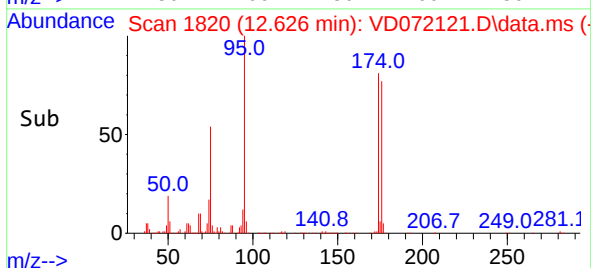
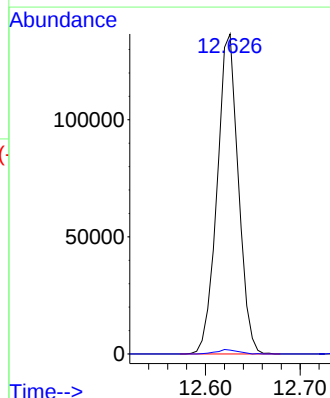
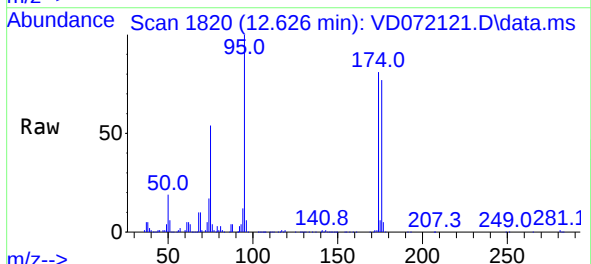
Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-022522

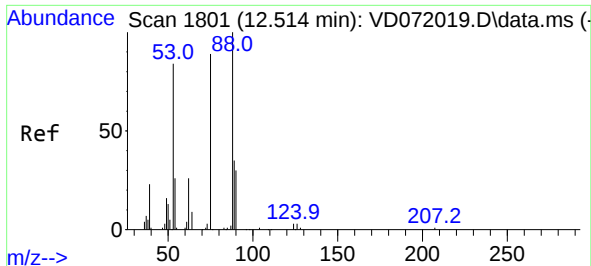
Tgt Ion:152 Resp: 416241  
Ion Ratio Lower Upper  
152 100  
115 60.7 29.9 89.7  
150 157.4 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 53.898 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

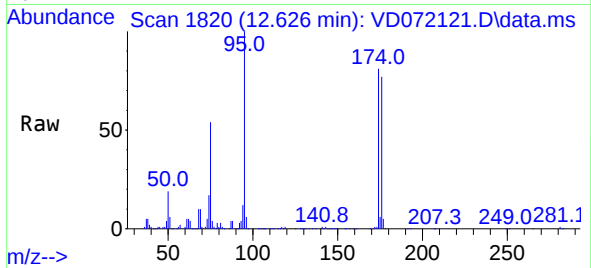
Tgt Ion: 75 Resp: 212506  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 134.973 ug/l  
RT: 12.626 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VD072121.D  
Acq: 28 Feb 2022 14:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
OK-02-022522



Tgt Ion: 75 Resp: 212506  
Ion Ratio Lower Upper  
75 100  
53 0.1 80.2 120.4#  
89 0.0 36.4 54.6#

