

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069885.D  
 Acq On : 28 Jul 2021 13:31  
 Operator : VA/SY  
 Sample : M3204-03  
 Misc : 5.07G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EO-03-072721

Quant Time: Jul 29 03:59:14 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

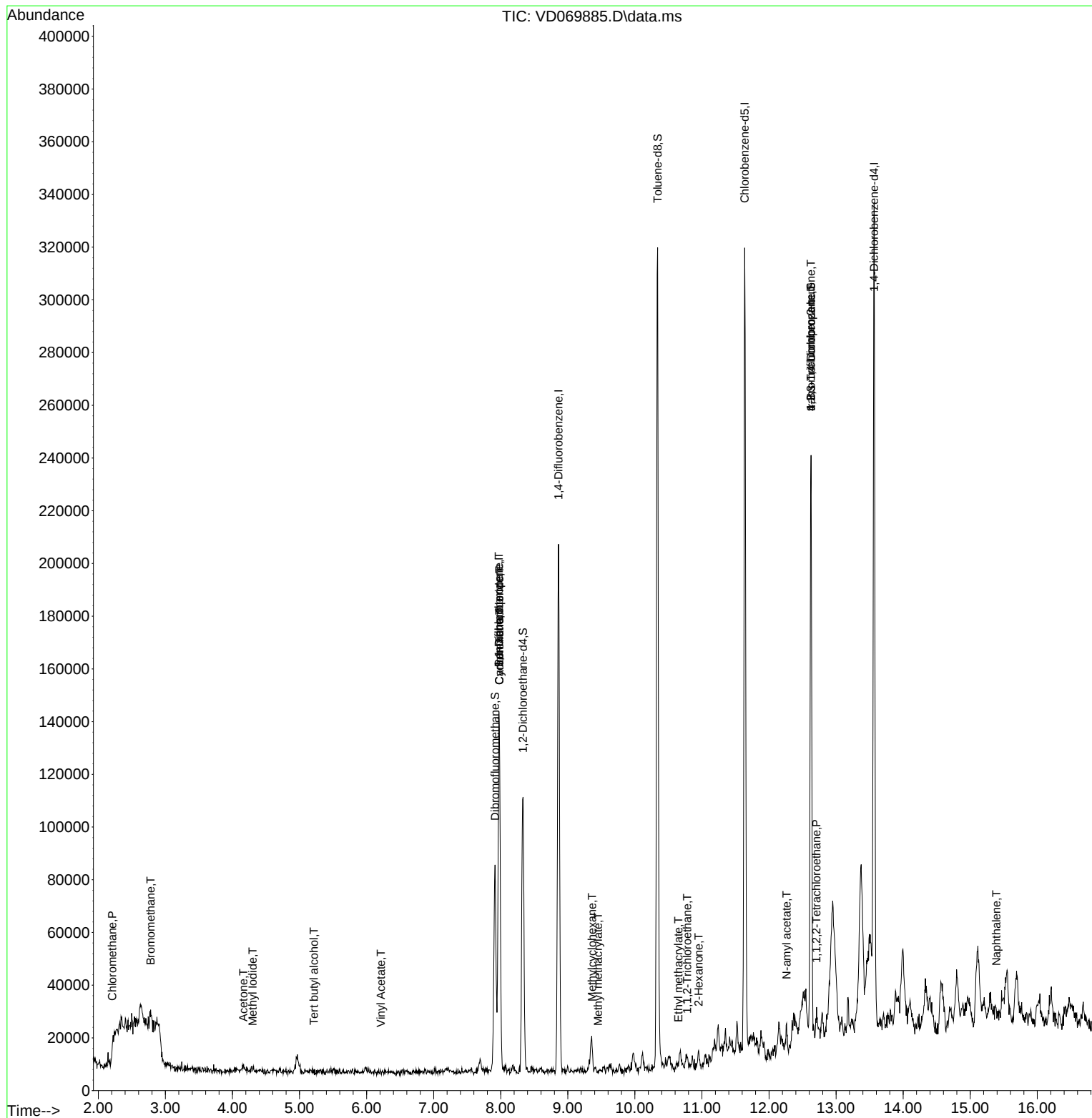
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 95194    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861     | 114   | 171699   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 177174   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567    | 152   | 86125    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.332     | 65    | 87770    | 80.169    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 160.340% |          |
| 35) Dibromofluoromethane      | 7.914     | 113   | 55509    | 51.284    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 102.560% |          |
| 50) Toluene-d8                | 10.338    | 98    | 211913   | 50.774    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 101.540% |          |
| 62) 4-Bromofluorobenzene      | 12.626    | 95    | 77869    | 55.826    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 111.660% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.209     | 50    | 1809     | 1.245     | ug/l #     | 55       |
| 5) Bromomethane               | 2.779     | 94    | 4401     | 3.086     | ug/l       | 92       |
| 10) Methyl Iodide             | 4.303     | 142   | 2317     | 5.285     | ug/l       | 96       |
| 11) Tert butyl alcohol        | 5.215     | 59    | 145      | 2.560     | ug/l #     | 73       |
| 16) Acetone                   | 4.162     | 43    | 3644     | 18.425    | ug/l       | 98       |
| 20) Methylene Chloride        | 4.968     | 84    | 4753     | Below Cal |            | 92       |
| 23) Vinyl Acetate             | 6.215     | 43    | 175      | 20.433    | ug/l #     | 71       |
| 31) Cyclohexane               | 7.979     | 56    | 3676     | 1.718     | ug/l #     | 18       |
| 36) 1,1-Dichloropropene       | 7.973     | 75    | 8859     | 4.781     | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 7.979     | 117   | 10628    | 6.279     | ug/l #     | 16       |
| 39) Methylcyclohexane         | 9.361     | 83    | 4142     | 1.952     | ug/l #     | 83       |
| 48) Methyl methacrylate       | 9.450     | 41    | 158      | 2.979     | ug/l #     | 13       |
| 55) 1,1,2-Trichloroethane     | 10.779    | 97    | 1824     | 1.863     | ug/l #     | 23       |
| 56) Ethyl methacrylate        | 10.650    | 69    | 386      | 4.190     | ug/l #     | 59       |
| 59) 2-Hexanone                | 10.950    | 43    | 2386     | 5.730     | ug/l #     | 21       |
| 74) N-amyl acetate            | 12.261    | 43    | 2428     | 1.908     | ug/l #     | 78       |
| 75) 1,1,2,2-Tetrachloroethane | 12.708    | 83    | 1528     | 1.236     | ug/l #     | 44       |
| 76) 1,2,3-Trichloropropane    | 12.626    | 75    | 41424    | 45.250    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626    | 75    | 41424    | 137.277   | ug/l #     | 17       |
| 95) Naphthalene               | 15.390    | 128   | 2404     | 5.767     | ug/l #     | 93       |
| -----                         |           |       |          |           |            |          |

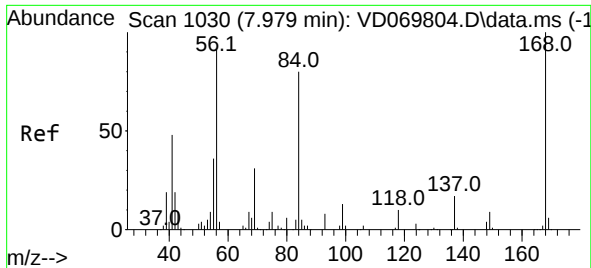
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M3204-03  
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Quant Title : SW846 8260  
QLast Update : Fri Jul 23 04:51:13 2021  
Response via : Initial Calibration

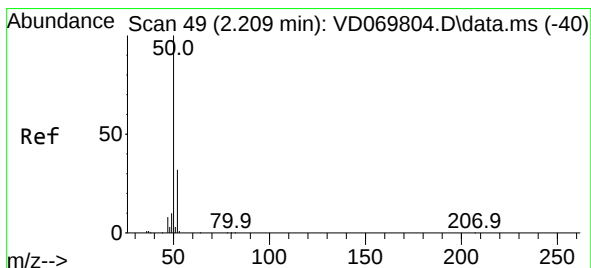
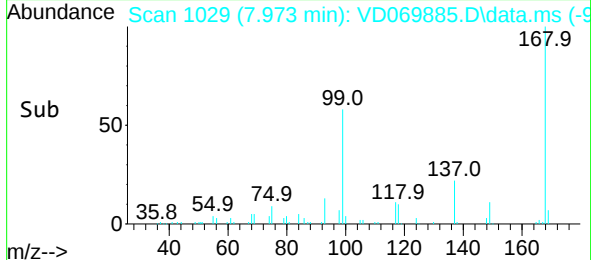
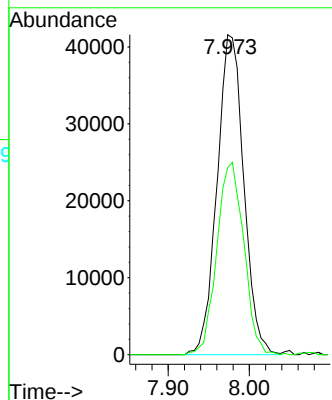
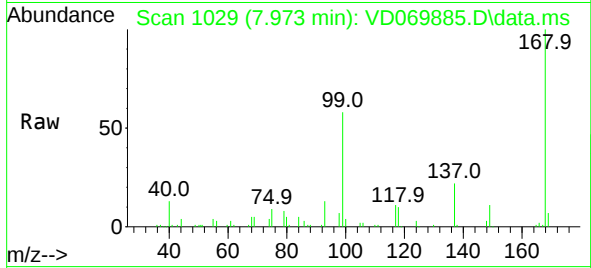




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

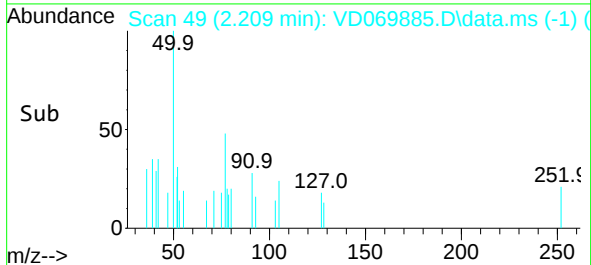
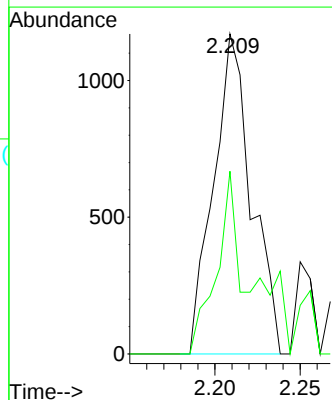
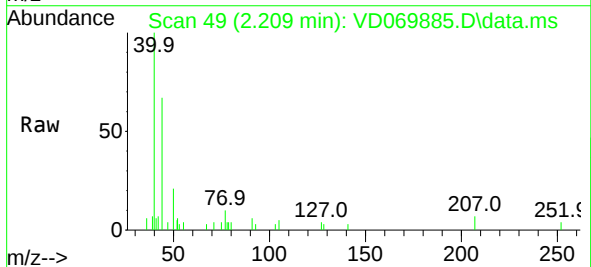
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

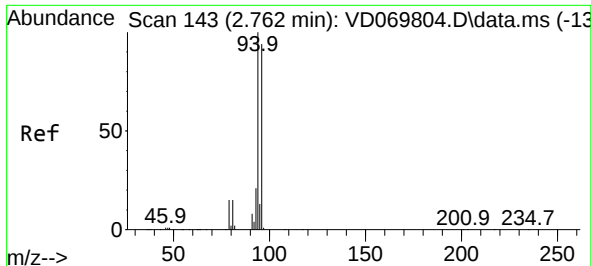
Tgt Ion:168 Resp: 95194  
Ion Ratio Lower Upper  
168 100  
99 58.4 51.1 76.7



#3  
Chloromethane  
Concen: 1.245 ug/l  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 50 Resp: 1809  
Ion Ratio Lower Upper  
50 100  
52 57.1 25.7 38.5#

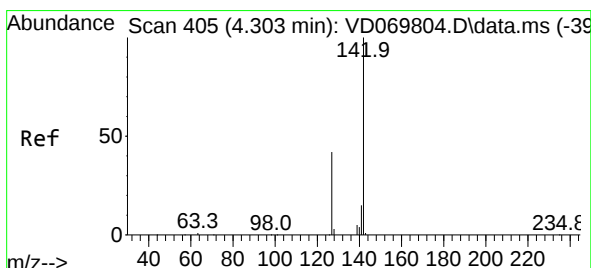
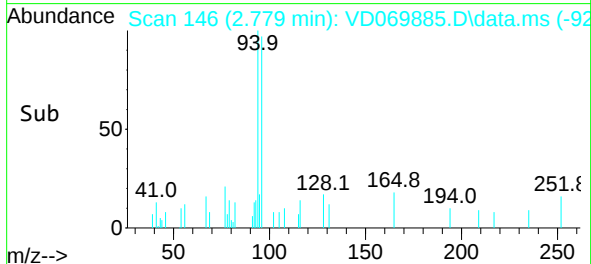
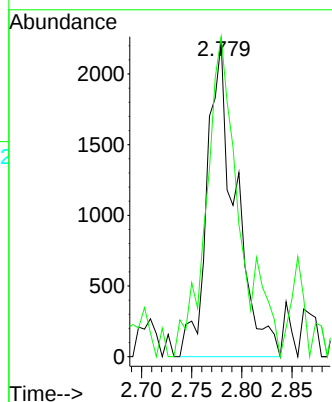
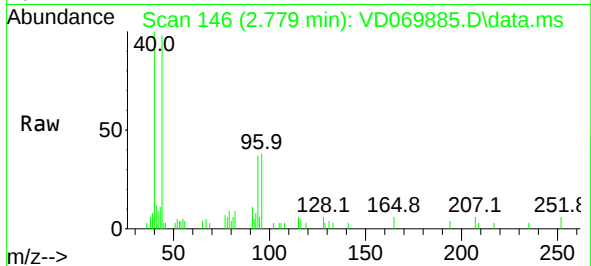




#5  
Bromomethane  
Concen: 3.086 ug/l  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

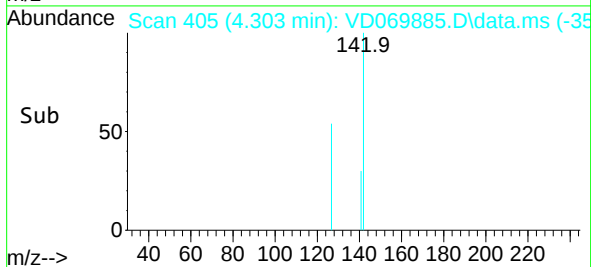
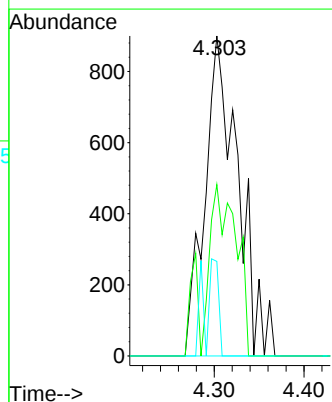
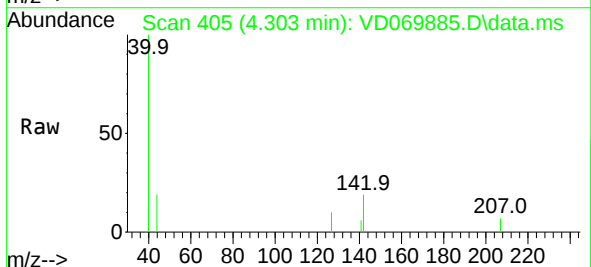
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

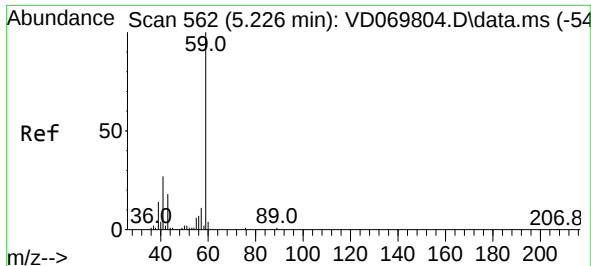
Tgt Ion: 94 Resp: 4401  
Ion Ratio Lower Upper  
94 100  
96 101.3 74.8 112.2



#10  
Methyl Iodide  
Concen: 5.285 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 142 Resp: 2317  
Ion Ratio Lower Upper  
142 100  
127 42.6 35.7 53.5  
141 12.3 12.0 18.0

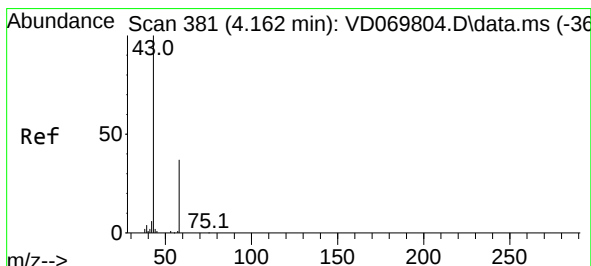
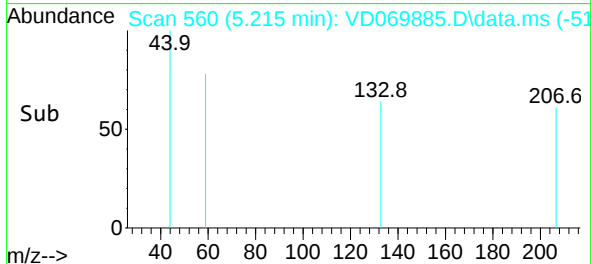
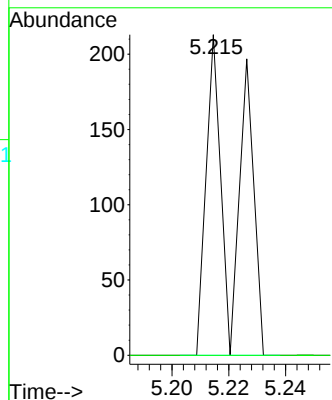
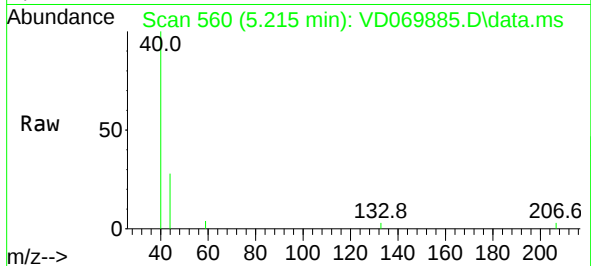




#11  
Tert butyl alcohol  
Concen: 2.560 ug/l  
RT: 5.215 min Scan# 560  
Delta R.T. -0.012 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

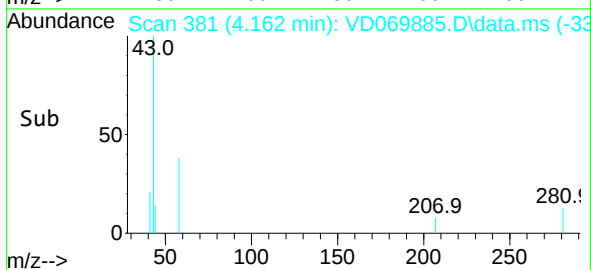
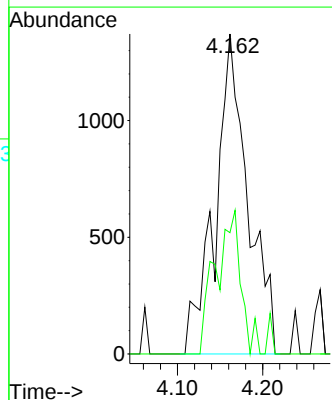
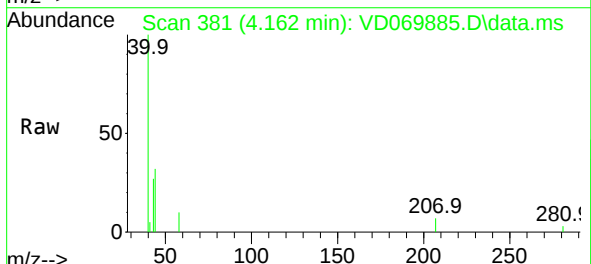
Instrument :  
MSVOA\_D  
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EO-03-072721

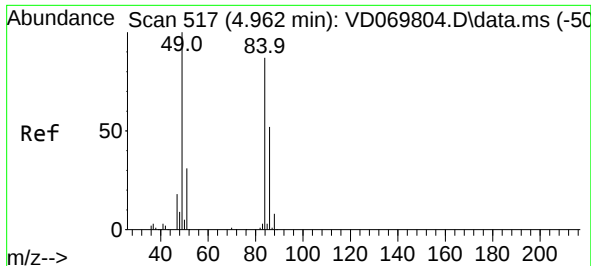
Tgt Ion: 59 Resp: 145  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#



#16  
Acetone  
Concen: 18.425 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

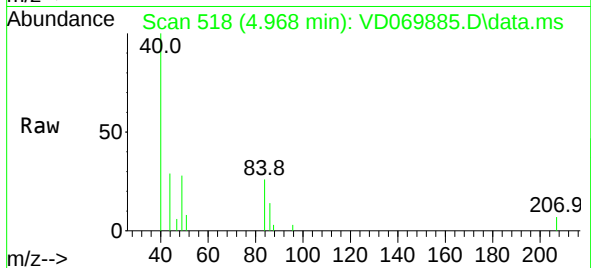
Tgt Ion: 43 Resp: 3644  
Ion Ratio Lower Upper  
43 100  
58 37.9 29.4 44.0



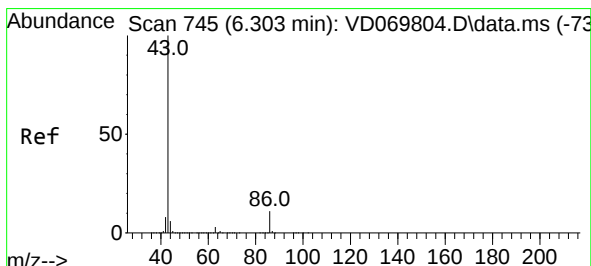
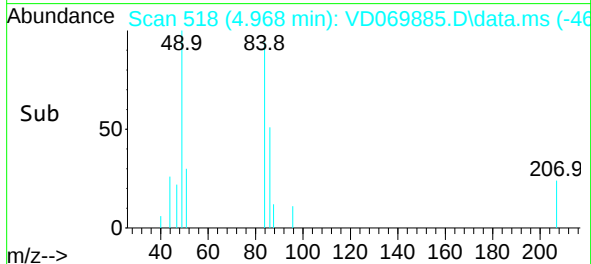
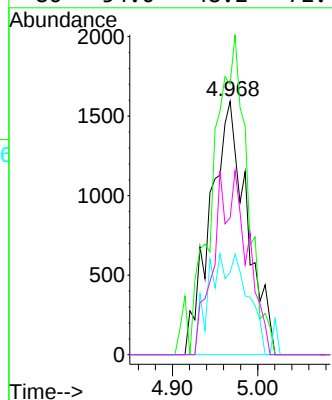


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.968 min Scan# 518  
Delta R.T. 0.006 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

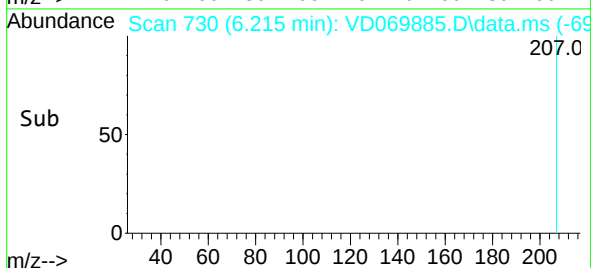
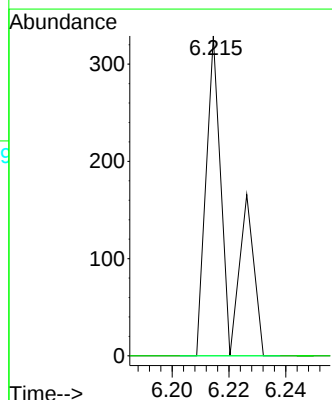
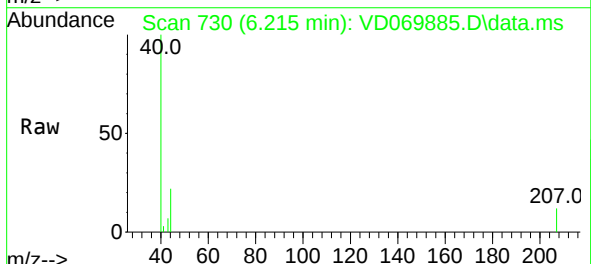


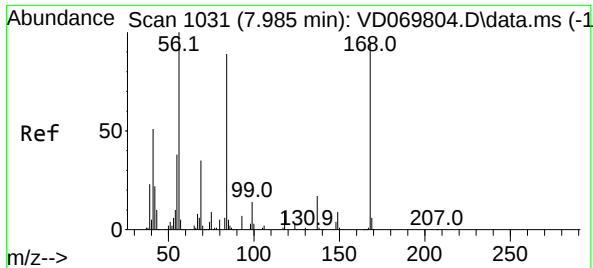
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 4753  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 106.8 | 92.4  | 138.6 |
| 51       | 32.5  | 28.5  | 42.7  |
| 86       | 54.0  | 48.2  | 72.4  |



#23  
Vinyl Acetate  
Concen: 20.433 ug/l  
RT: 6.215 min Scan# 730  
Delta R.T. -0.088 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 175   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 8.6   | 13.0# |

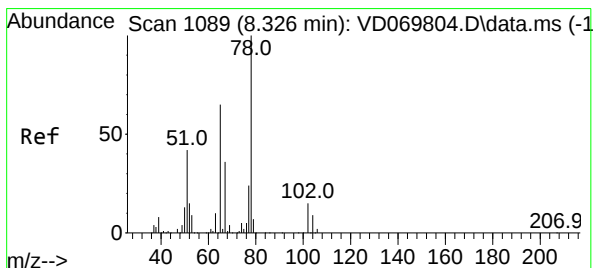
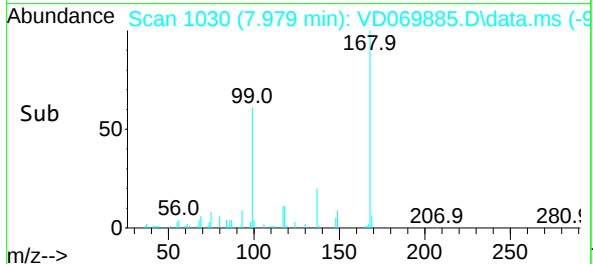
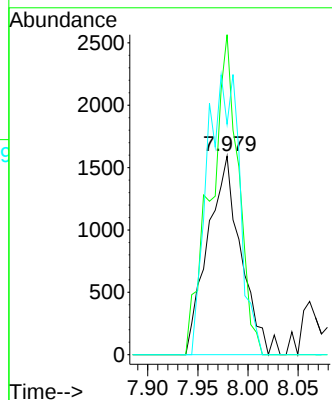
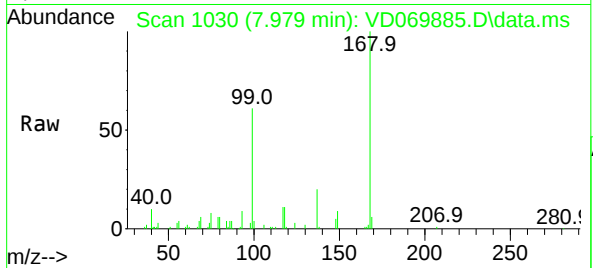




#31  
Cyclohexane  
Concen: 1.718 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

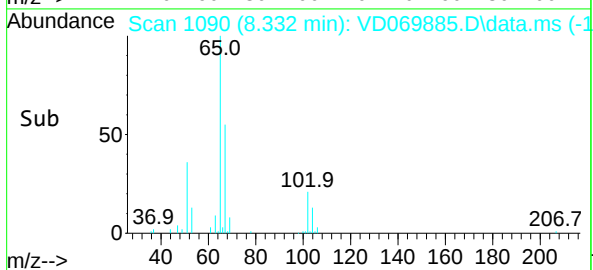
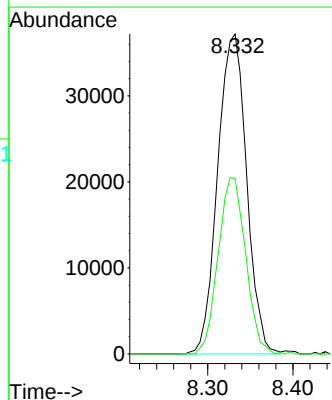
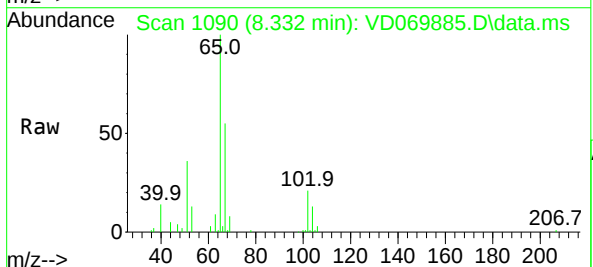
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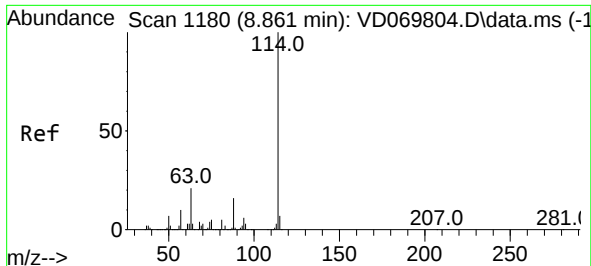
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Ion Ratio Lower Upper  
56 100  
69 161.2 27.9 41.9#  
84 116.1 71.4 107.2#



#33  
1,2-Dichloroethane-d4  
Concen: 80.169 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.006 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 65 Resp: 87770  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 111.2

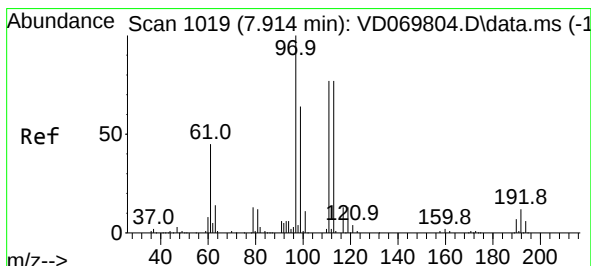
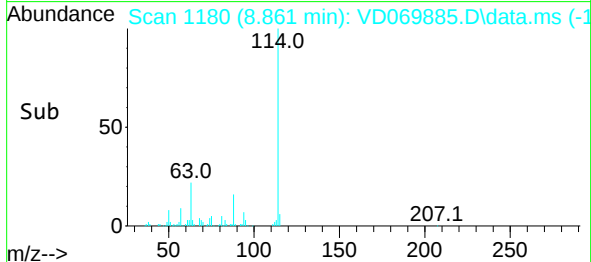
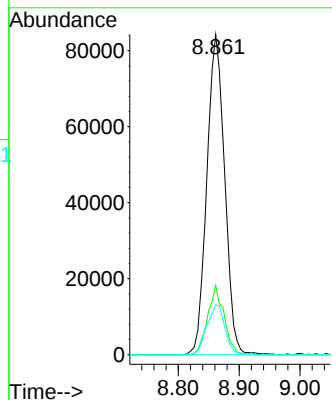
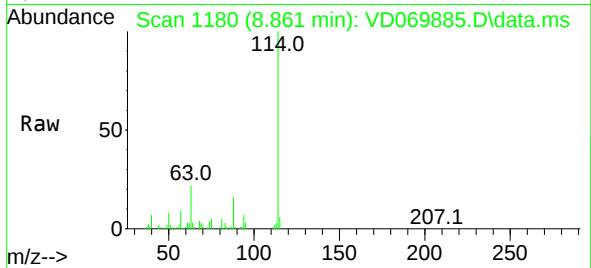




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

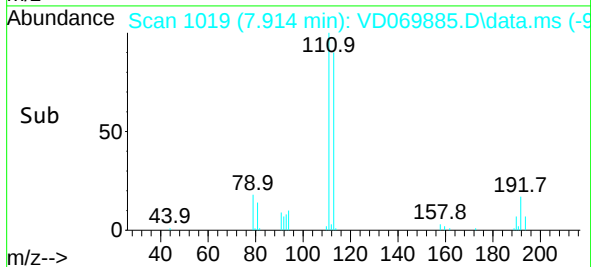
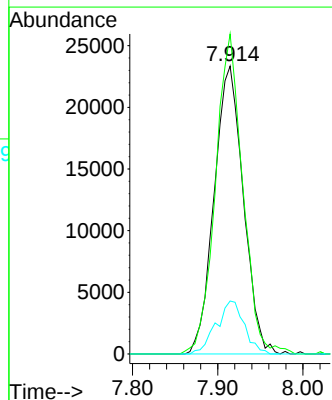
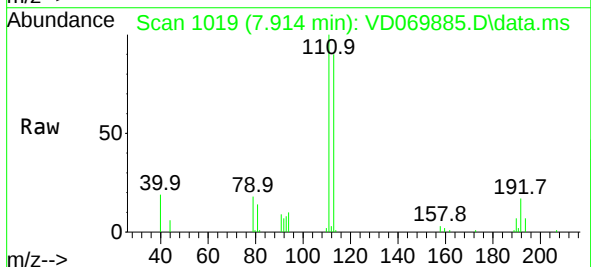
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

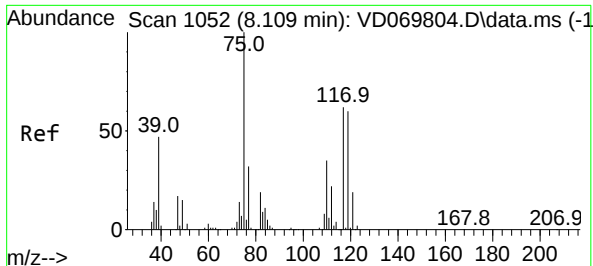
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|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 171699 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 21.6  | 0.0   | 41.6   |
| 88        | 15.6  | 0.0   | 31.4   |



#35  
Dibromofluoromethane  
Concen: 51.284 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

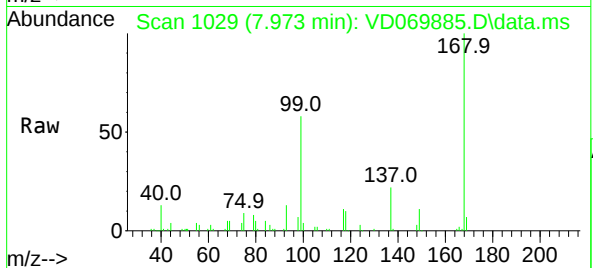
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 55509 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 104.2 | 80.5  | 120.7 |
| 192       | 17.7  | 12.6  | 19.0  |



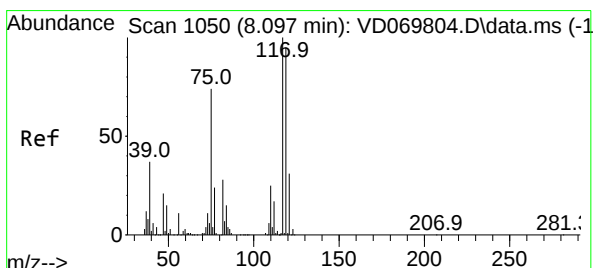
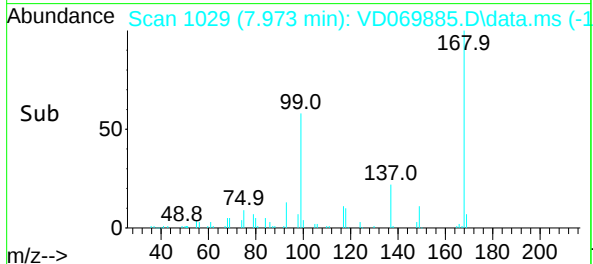
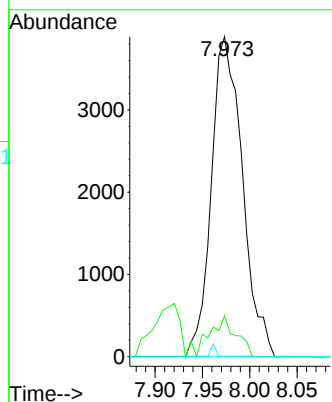


#36  
1,1-Dichloropropene  
Concen: 4.781 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

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MSVOA\_D  
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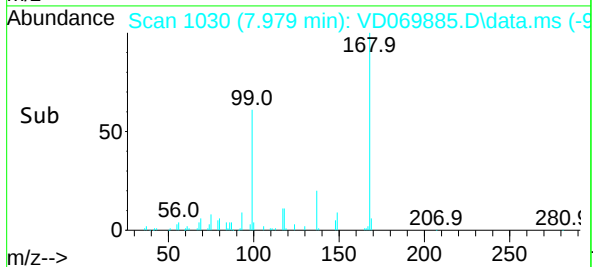
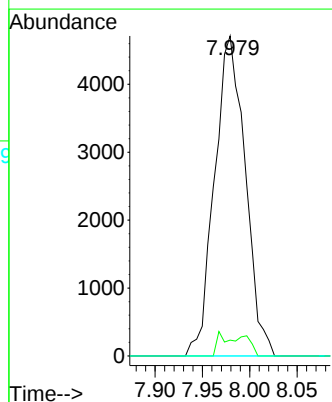
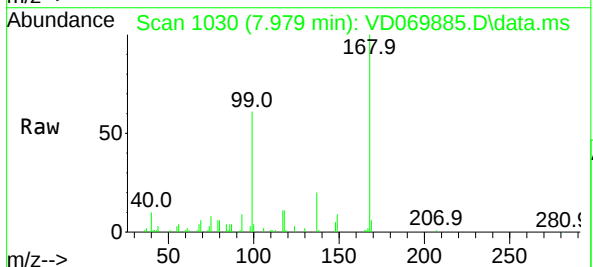


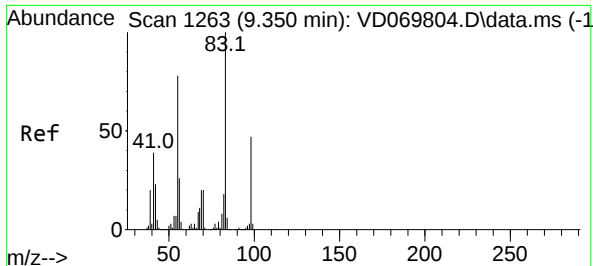
|             |                 |
|-------------|-----------------|
| Tgt Ion: 75 | Resp: 8859      |
| Ion Ratio   | Lower Upper     |
| 75          | 100             |
| 110         | 10.6 16.9 50.7# |
| 77          | 0.6 24.9 37.3#  |



#38  
Carbon Tetrachloride  
Concen: 6.279 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 10628     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 5.0 76.2 114.2# |
| 121          | 0.0 24.5 36.7#  |





#39

Methylcyclohexane

Concen: 1.952 ug/l

RT: 9.361 min Scan# 1265

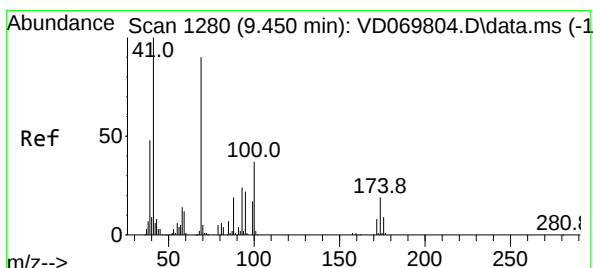
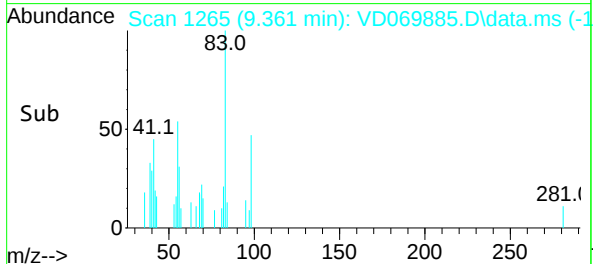
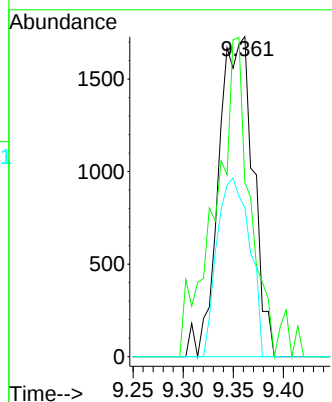
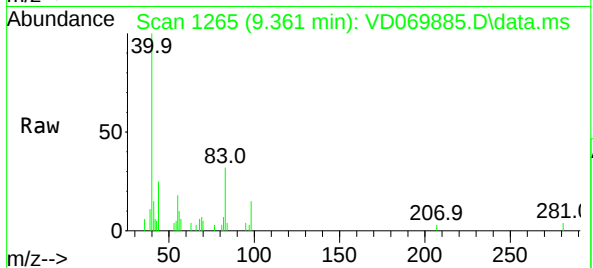
Delta R.T. 0.012 min

Lab File: VD069885.D

Acq: 28 Jul 2021 13:31

Tgt Ion: 83 Resp: 4142

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 54.4  | 62.2  | 93.2# |
| 98  | 46.6  | 37.8  | 56.8  |



#48

Methyl methacrylate

Concen: 2.979 ug/l

RT: 9.450 min Scan# 1280

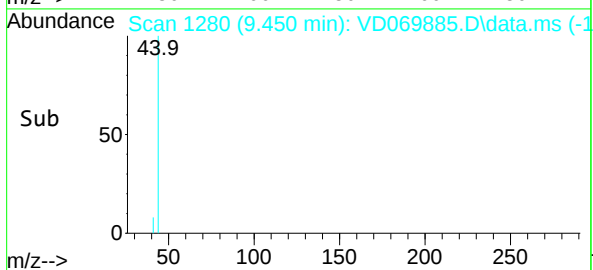
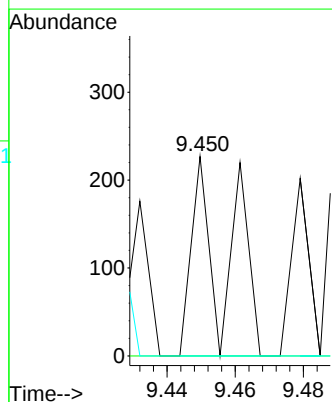
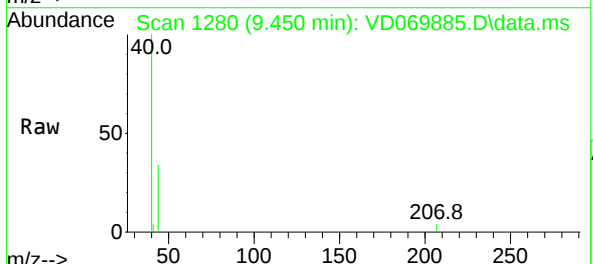
Delta R.T. -0.000 min

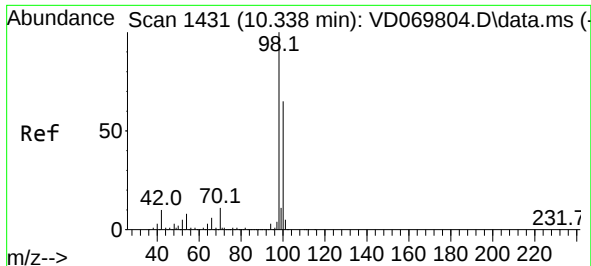
Lab File: VD069885.D

Acq: 28 Jul 2021 13:31

Tgt Ion: 41 Resp: 158

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 41  | 100   |       |        |
| 69  | 0.0   | 73.4  | 110.2# |
| 39  | 0.0   | 36.6  | 55.0#  |

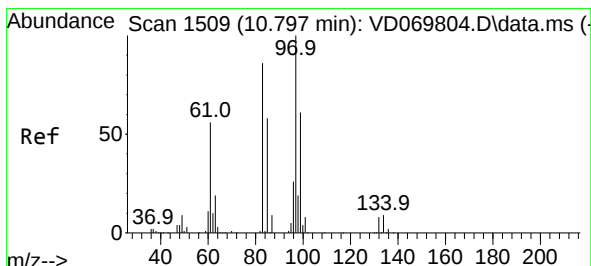
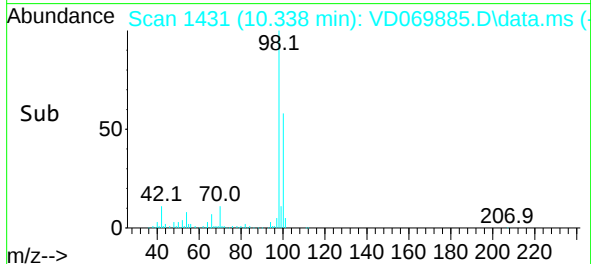
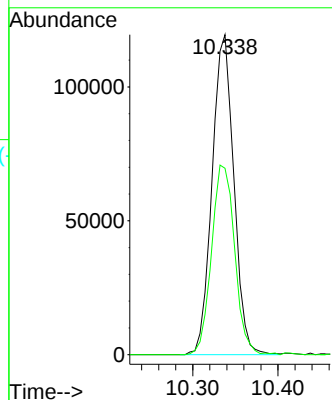
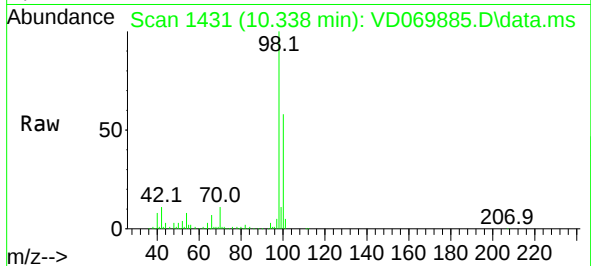




#50  
Toluene-d8  
Concen: 50.774 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

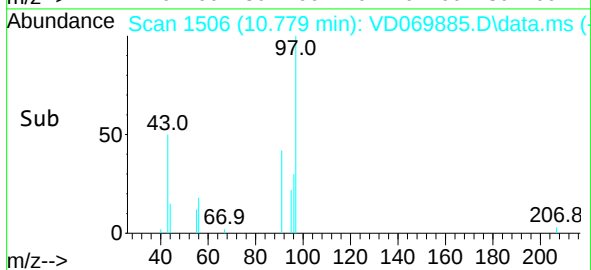
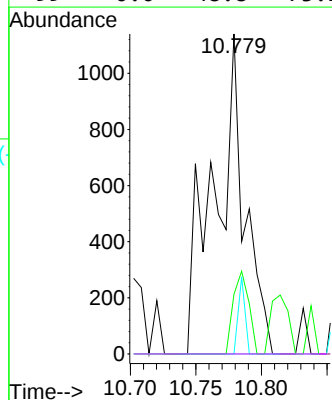
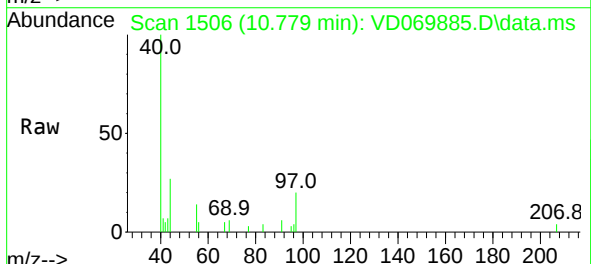
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

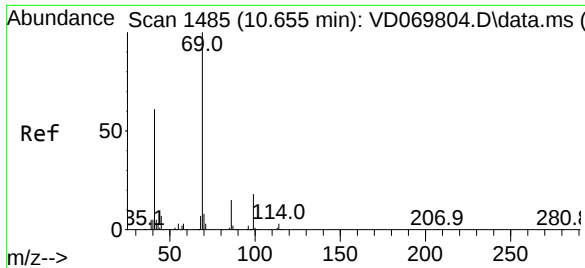
Tgt Ion: 98 Resp: 211913  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.9 77.9



#55  
1,1,2-Trichloroethane  
Concen: 1.863 ug/l  
RT: 10.779 min Scan# 1506  
Delta R.T. -0.018 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 97 Resp: 1824  
Ion Ratio Lower Upper  
97 100  
83 18.7 69.1 103.7#  
85 0.0 46.2 69.2#  
99 0.0 48.8 73.2#

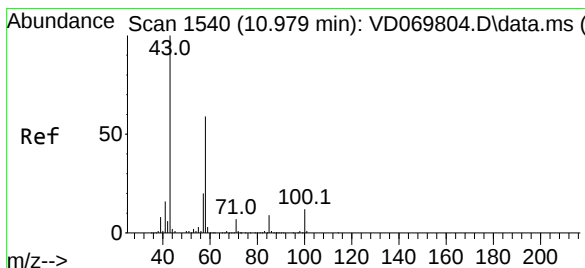
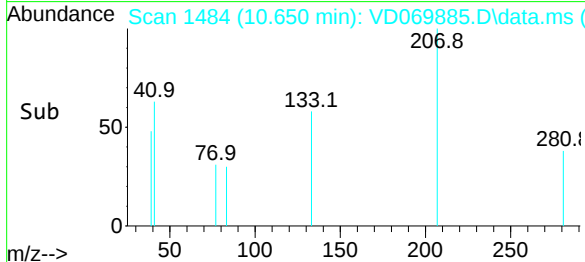
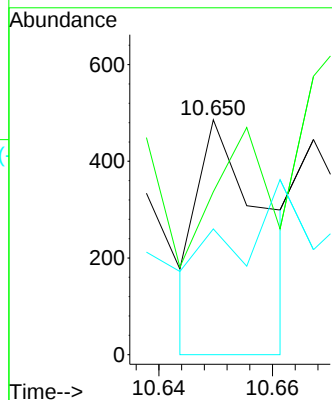
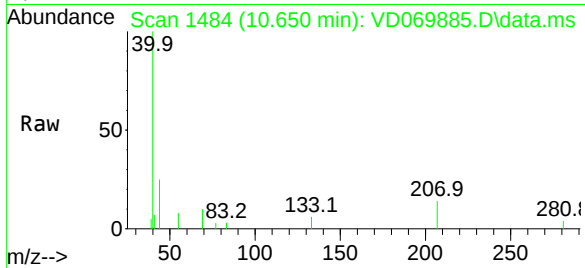




#56  
Ethyl methacrylate  
Concen: 4.190 ug/l  
RT: 10.650 min Scan# 1484  
Delta R.T. -0.005 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

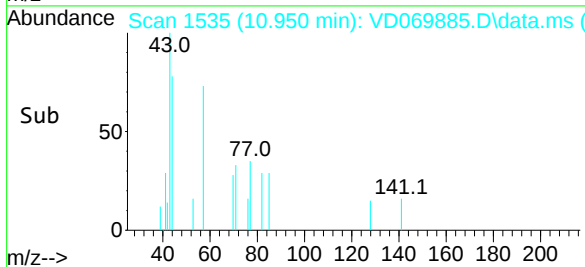
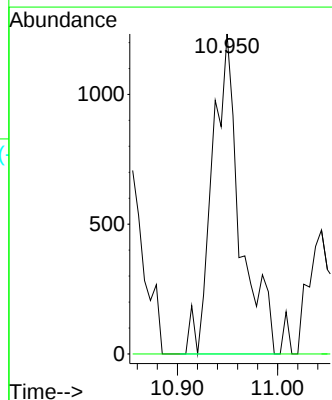
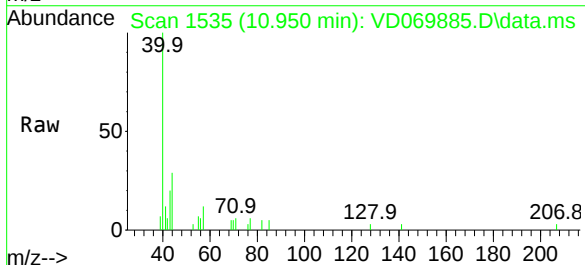
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

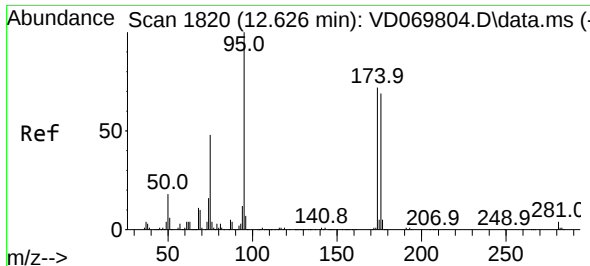
Tgt Ion: 69 Resp: 386  
Ion Ratio Lower Upper  
69 100  
41 90.9 50.2 75.2#  
39 0.0 22.0 33.0#



#59  
2-Hexanone  
Concen: 5.730 ug/l  
RT: 10.950 min Scan# 1535  
Delta R.T. -0.029 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 43 Resp: 2386  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.4 88.3#

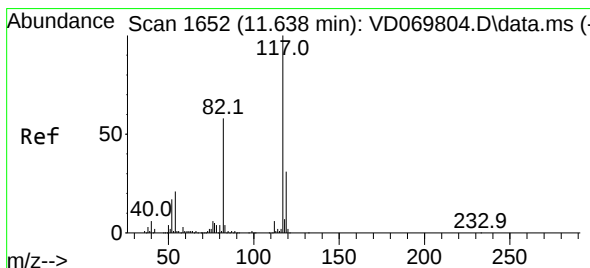
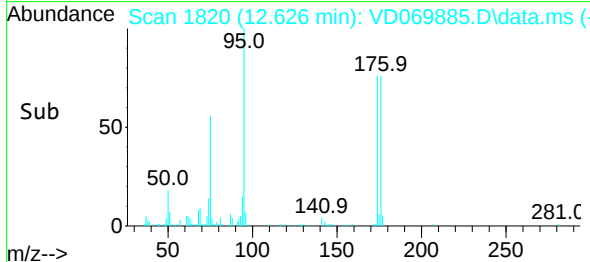
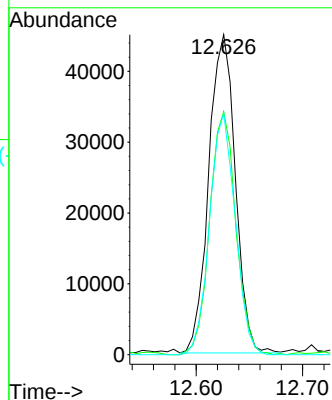
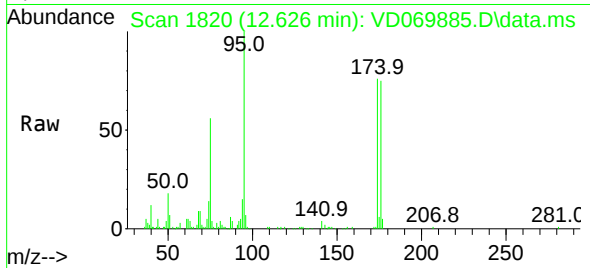




#62  
4-Bromofluorobenzene  
Concen: 55.826 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

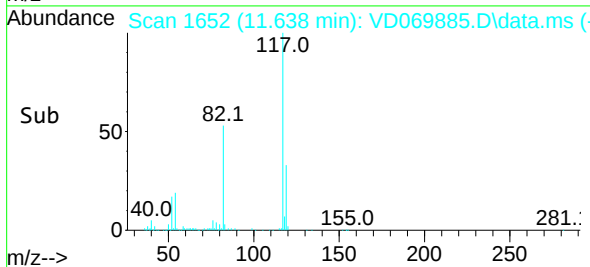
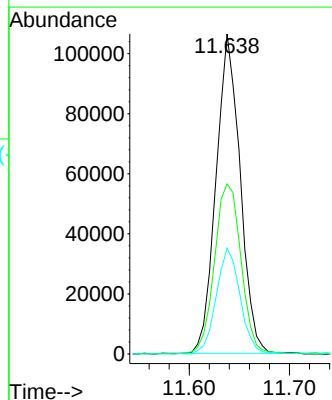
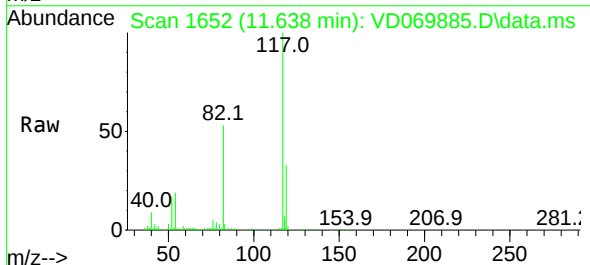
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

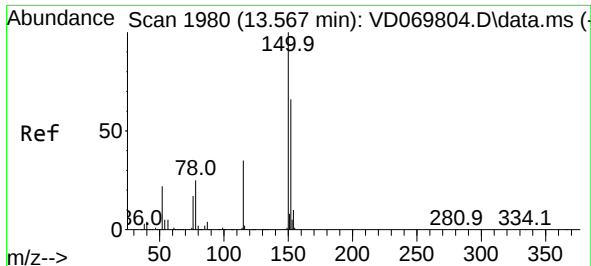
Tgt Ion: 95 Resp: 77869  
Ion Ratio Lower Upper  
95 100  
174 75.0 0.0 142.6  
176 73.3 0.0 134.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

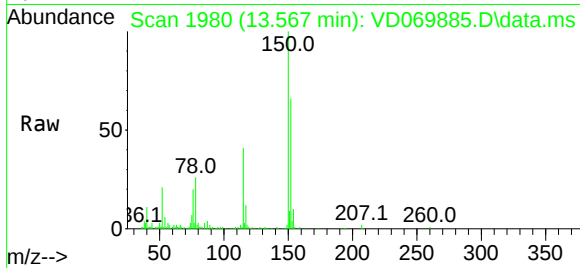
Tgt Ion: 117 Resp: 177174  
Ion Ratio Lower Upper  
117 100  
82 53.1 46.3 69.5  
119 32.9 24.7 37.1



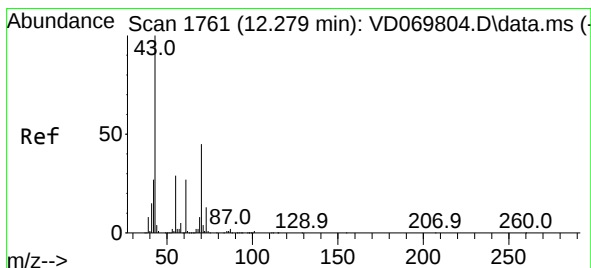
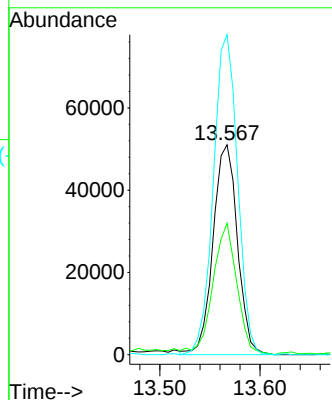
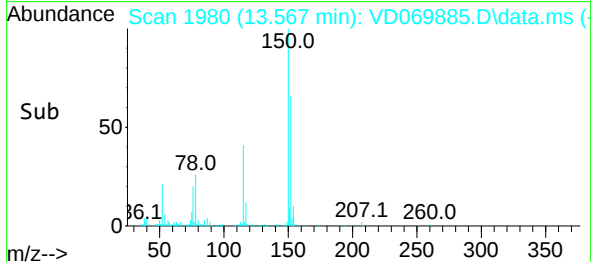


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

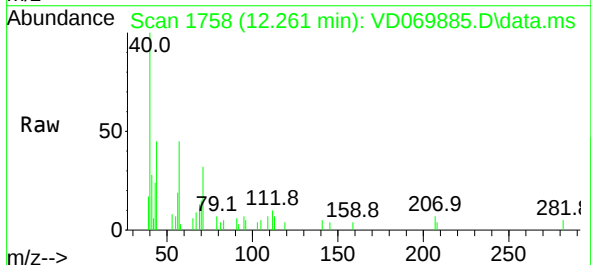
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721



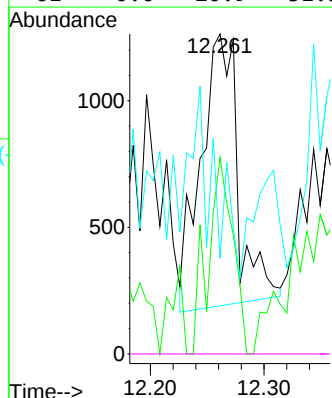
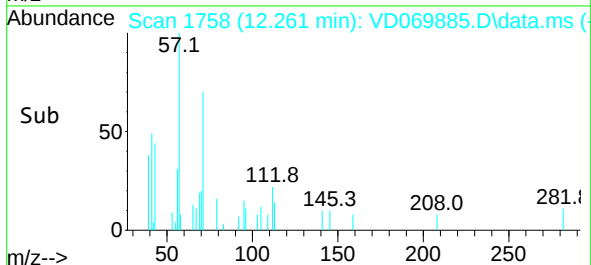
Tgt Ion:152 Resp: 86125  
Ion Ratio Lower Upper  
152 100  
115 61.9 31.1 93.3  
150 151.4 0.0 343.0

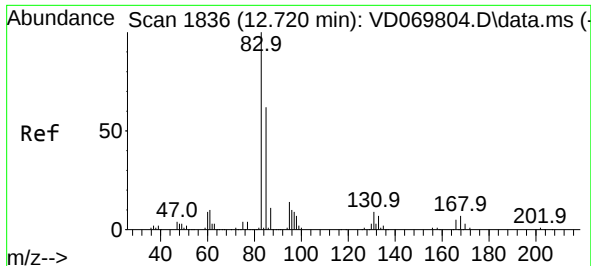


#74  
N-ethyl acetate  
Concen: 1.908 ug/l  
RT: 12.261 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31



Tgt Ion: 43 Resp: 2428  
Ion Ratio Lower Upper  
43 100  
70 48.6 37.9 56.9  
55 45.2 23.7 35.5#  
61 0.0 20.9 31.3#

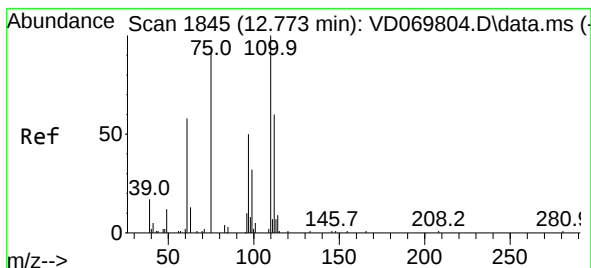
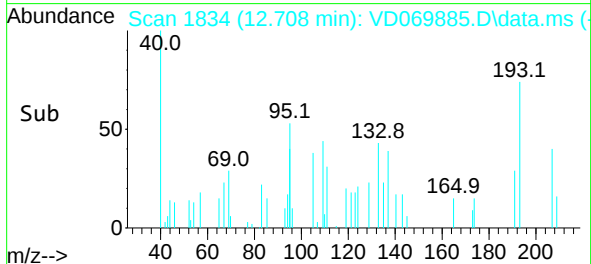
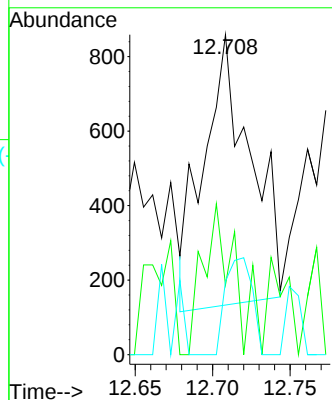
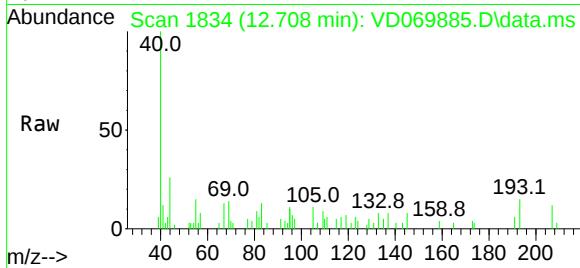




#75  
1,1,2,2-Tetrachloroethane  
Concen: 1.236 ug/l  
RT: 12.708 min Scan# 1834  
Delta R.T. -0.012 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

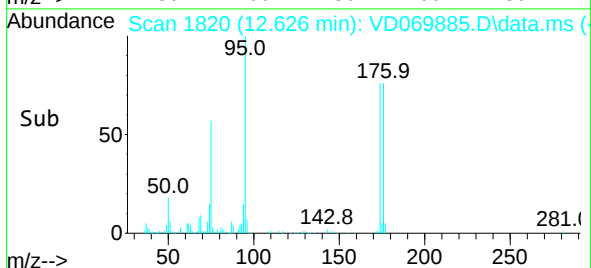
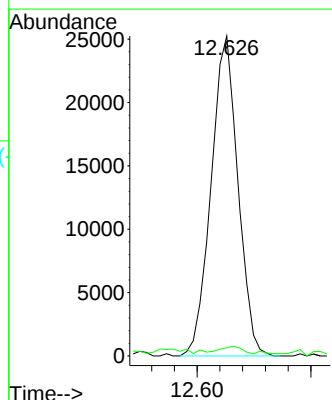
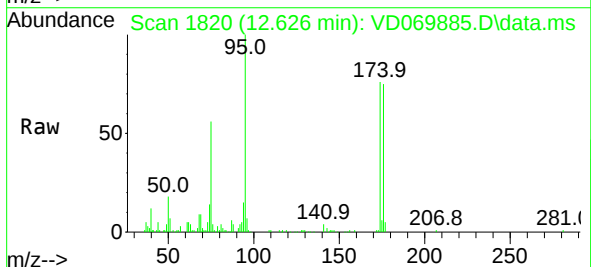
Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

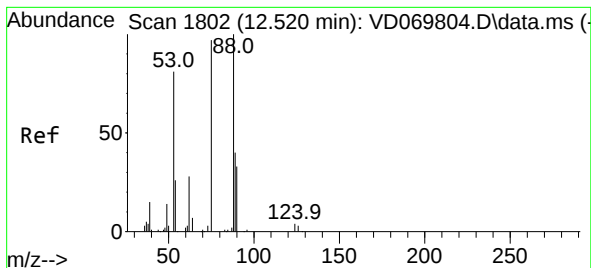
Tgt Ion: 83 Resp: 1528  
Ion Ratio Lower Upper  
83 100  
131 32.5 4.9 14.6#  
85 20.4 31.8 95.4#



#76  
1,2,3-Trichloropropane  
Concen: 45.250 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 75 Resp: 41424  
Ion Ratio Lower Upper  
75 100  
77 1.9 181.5 544.5#

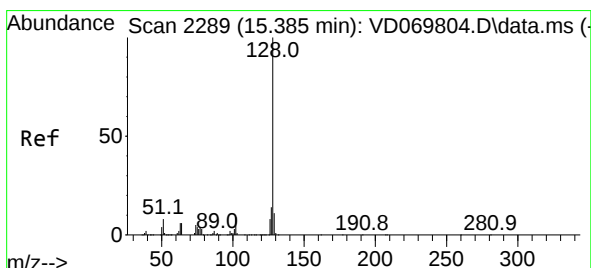
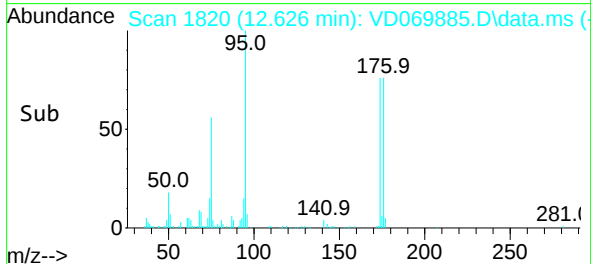
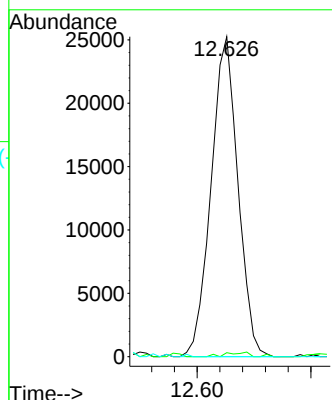
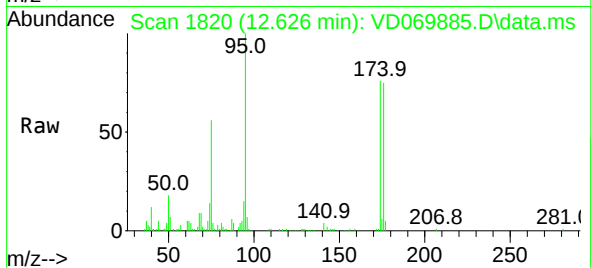




#81  
trans-1,4-Dichloro-2-butene  
Concen: 137.277 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.106 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-03-072721

Tgt Ion: 75 Resp: 41424  
Ion Ratio Lower Upper  
75 100  
53 1.1 67.2 100.8#  
89 0.0 35.8 53.6#



#95  
Naphthalene  
Concen: 5.767 ug/l  
RT: 15.390 min Scan# 2290  
Delta R.T. 0.005 min  
Lab File: VD069885.D  
Acq: 28 Jul 2021 13:31

Tgt Ion: 128 Resp: 2404  
Ion Ratio Lower Upper  
128 100  
127 11.9 10.6 16.0  
129 14.9 8.6 12.8#

