

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD010721\  
 Data File : VD068035.D  
 Acq On : 07 Jan 2021 15:39  
 Operator : VA/SY  
 Sample : M1044-08  
 Misc : 5.26G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-8

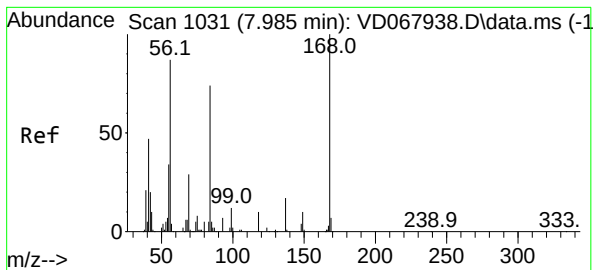
Quant Time: Jan 08 00:15:44 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 23 07:34:16 2020  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.985          | 168  | 296059             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 558786             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.650         | 117  | 529669             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.579         | 152  | 230657             | 50.00     | ug/l   | 0.00     |
|                               |                |      |                    |           |        |          |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 187002             | 58.49     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 116.98% |           |        |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 187758             | 53.33     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 106.66% |           |        |          |
| 50) Toluene-d8                | 10.344         | 98   | 708765             | 53.56     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 107.12% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 232383             | 51.33     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 102.66% |           |        |          |
|                               |                |      |                    |           |        |          |
| Target Compounds              |                |      |                    |           | Qvalue |          |
| 5) Bromomethane               | 2.768          | 94   | 173                | Below Cal | #      | 1        |
| 11) Tert butyl alcohol        | 5.226          | 59   | 85                 | Below Cal | #      | 74       |
| 16) Acetone                   | 4.162          | 43   | 12031              | 19.71     | ug/l   | 96       |
| 20) Methylene Chloride        | 4.973          | 84   | 5859               | Below Cal | #      | 85       |
| 25) 2-Butanone                | 7.220          | 43   | 1149               | 1.28      | ug/l   | 49       |
| 31) Cyclohexane               | 7.985          | 56   | 7739               | 1.18      | ug/l   | 16       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 25409              | 4.28      | ug/l   | 51       |
| 38) Carbon Tetrachloride      | 7.985          | 117  | 31115              | 5.48      | ug/l   | 17       |
| 51) 4-Methyl-2-Pentanone      | 10.232         | 43   | 13060              | 5.72      | ug/l   | 99       |
| 52) Toluene                   | 10.403         | 92   | 22355              | 2.10      | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.744         | 91   | 30073              | 1.48      | ug/l   | 92       |
| 68) m/p-Xylenes               | 11.855         | 106  | 34073              | 4.39      | ug/l   | 95       |
| 69) o-Xylene                  | 12.179         | 106  | 13325              | 1.92      | ug/l   | 100      |
| 71) Bromoform                 | 12.632         | 173  | 2256               | 1.09      | ug/l   | 28       |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 118376             | 60.96     | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 118376             | 124.95    | ug/l   | 12       |
| 84) 1,2,4-Trimethylbenzene    | 13.273         | 105  | 25493              | 1.79      | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.273         | 105  | 25493              | 1.49      | ug/l   | 57       |
| -----                         |                |      |                    |           |        |          |

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

Quant Time: Jan 08 00:15:44 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 23 07:34:16 2020  
Response via : Initial Calibration

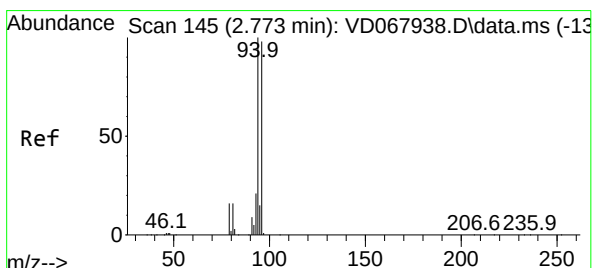
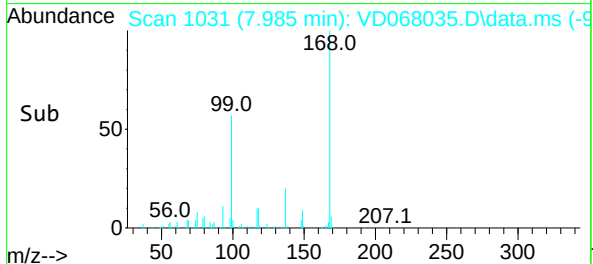
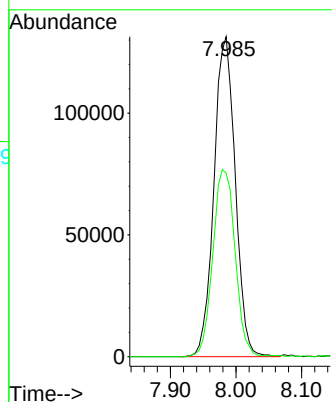
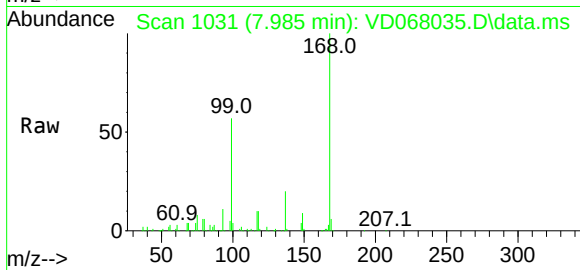




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

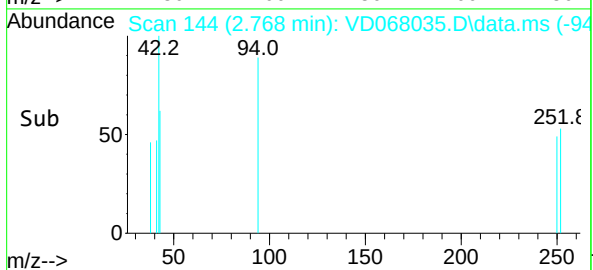
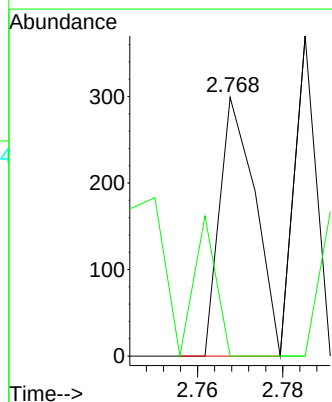
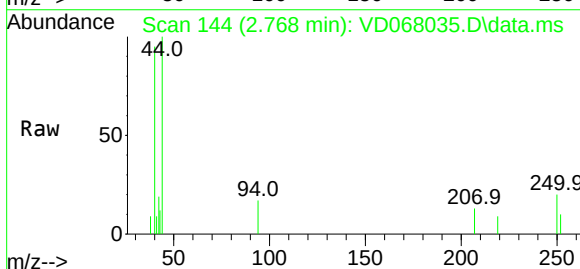
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

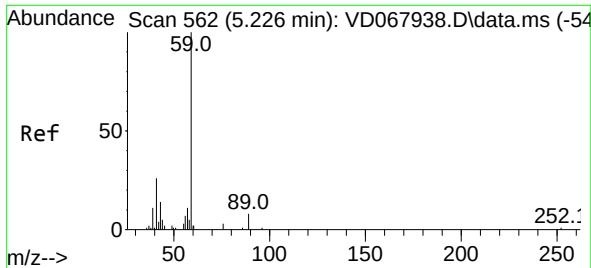
Tgt Ion:168 Resp: 296059  
Ion Ratio Lower Upper  
168 100  
99 57.3 48.0 72.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.768 min Scan# 144  
Delta R.T. -0.005 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 94 Resp: 173  
Ion Ratio Lower Upper  
94 100  
96 0.0 78.0 117.0#

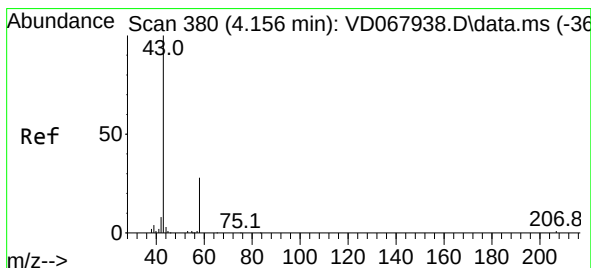
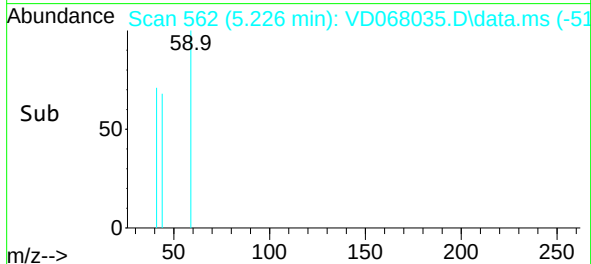
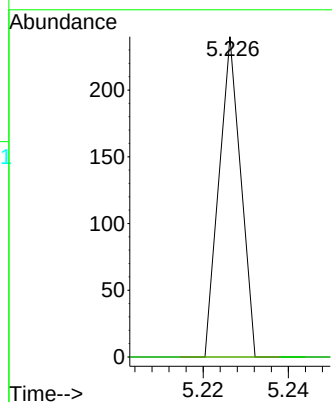
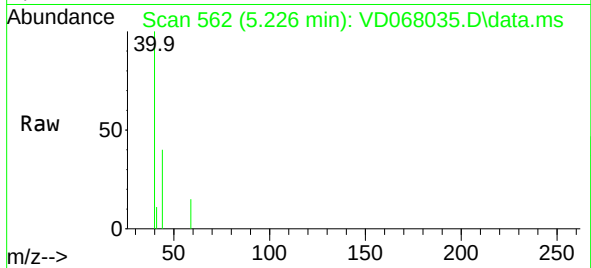




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.226 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

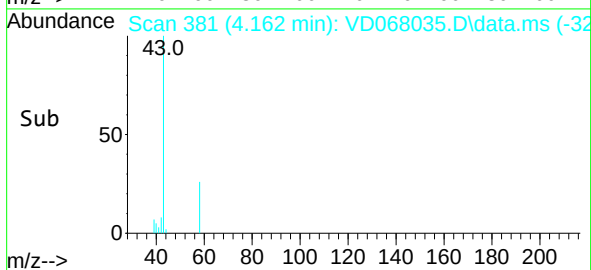
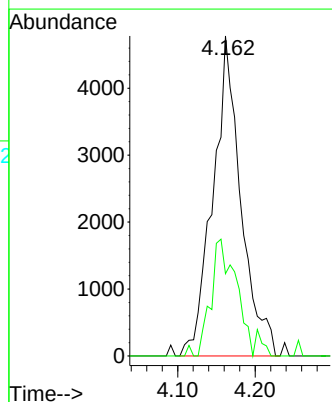
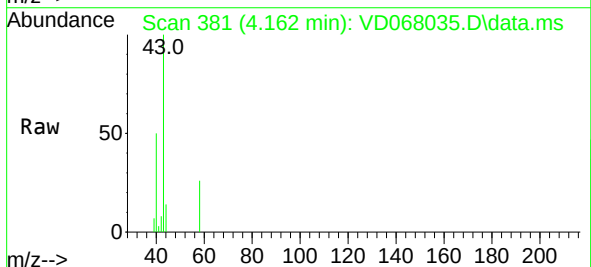
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

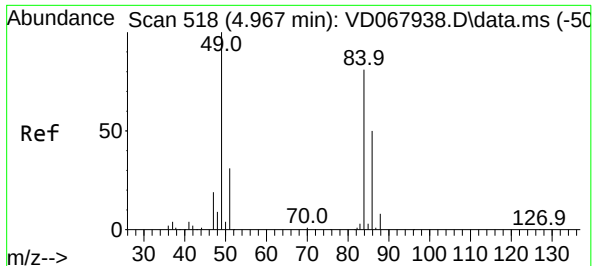
Tgt Ion: 59 Resp: 85  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



#16  
Acetone  
Concen: 19.71 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 43 Resp: 12031  
Ion Ratio Lower Upper  
43 100  
58 25.7 22.3 33.5

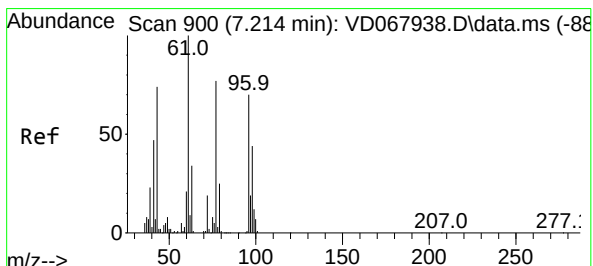
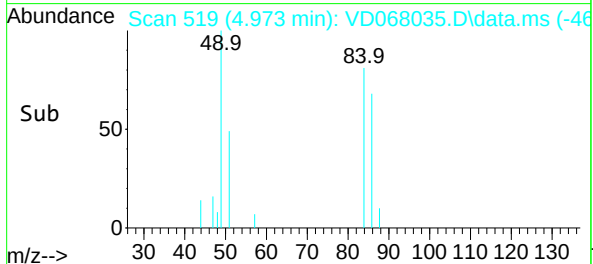
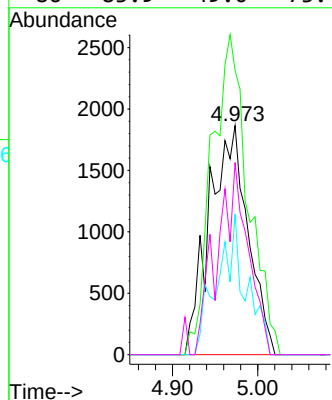
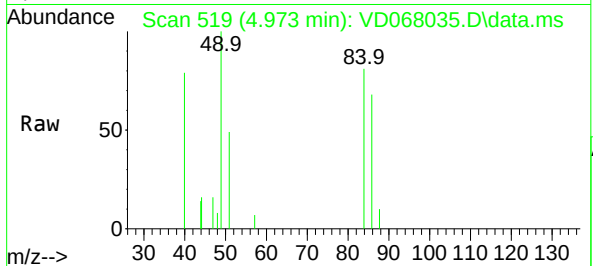




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.973 min Scan# 519  
Delta R.T. 0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

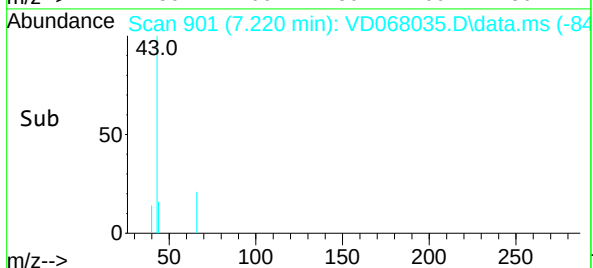
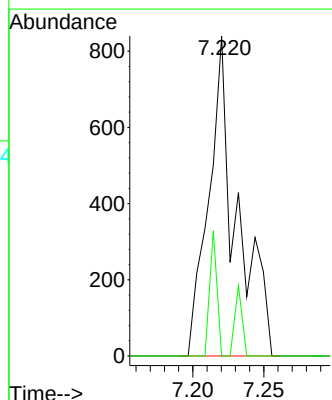
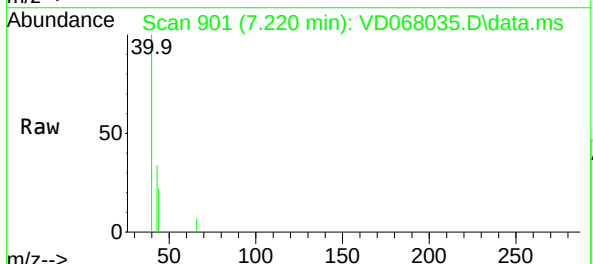
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

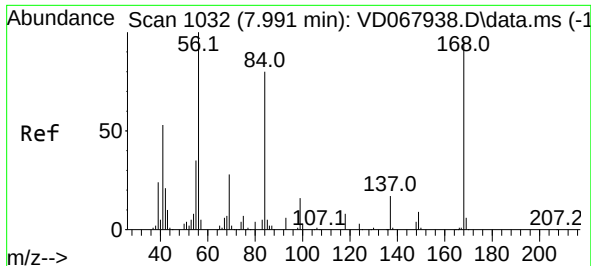
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5859  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 124.1 | 98.3  | 147.5 |
| 51       | 61.4  | 30.3  | 45.5# |
| 86       | 83.9  | 49.0  | 73.4# |



#25  
2-Butanone  
Concen: 1.28 ug/l  
RT: 7.220 min Scan# 901  
Delta R.T. 0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1149  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 20.8  | 31.2# |

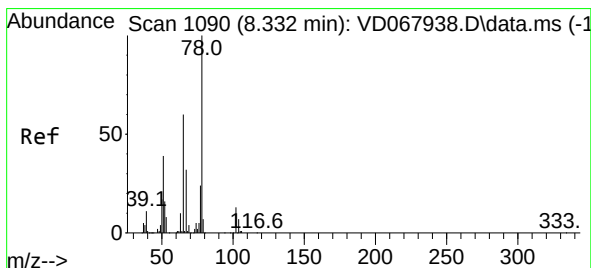
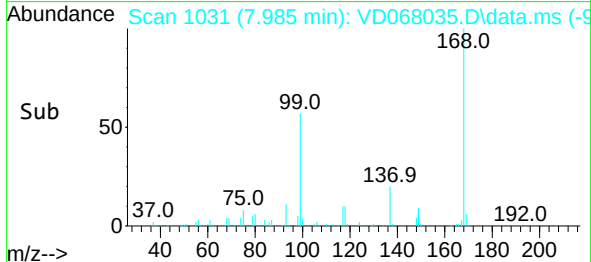
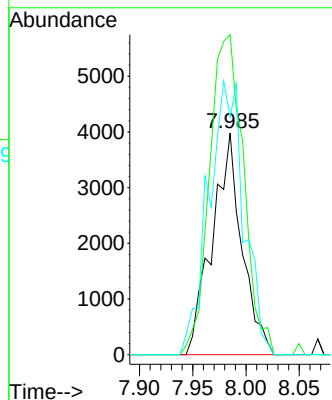
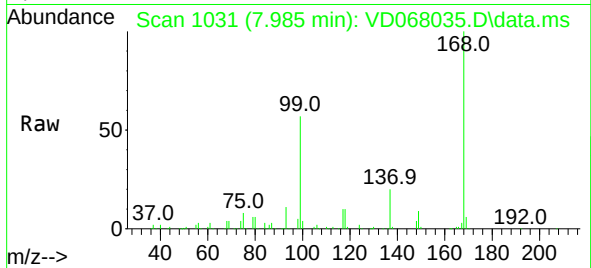




#31  
Cyclohexane  
Concen: 1.18 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

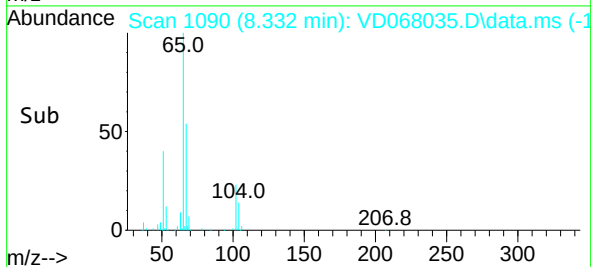
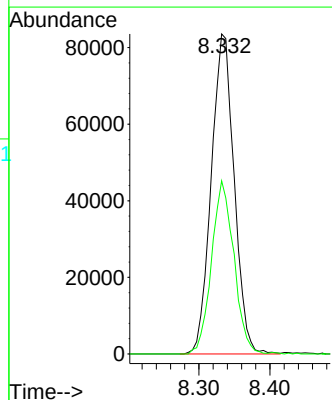
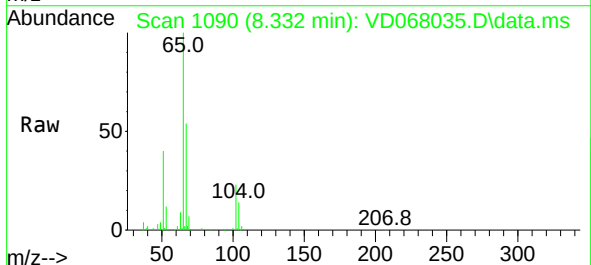
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

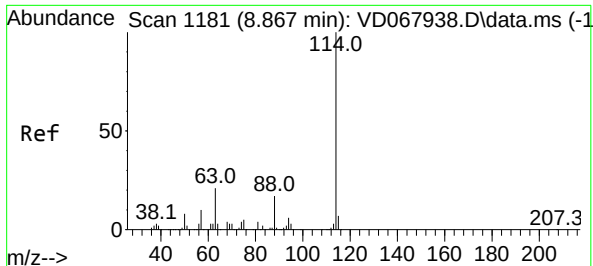
Tgt Ion: 56 Resp: 7739  
Ion Ratio Lower Upper  
56 100  
69 144.4 22.7 34.1#  
84 112.4 64.2 96.4#



#33  
1,2-Dichloroethane-d4  
Concen: 58.49 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 65 Resp: 187002  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.867 min Scan# 1181

Delta R.T. 0.000 min

Lab File: VD068035.D

Acq: 07 Jan 2021 15:39

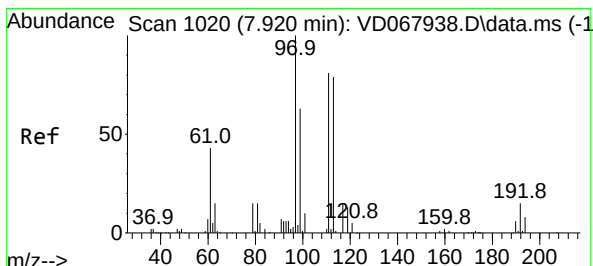
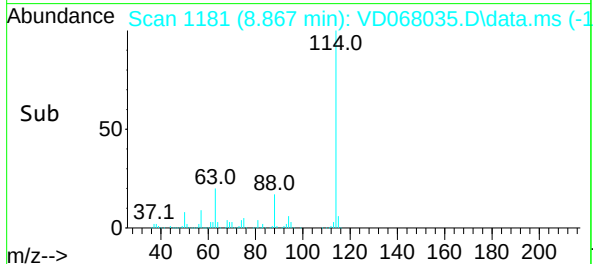
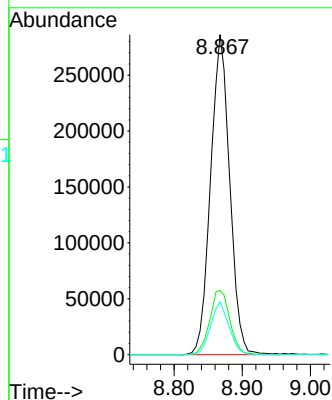
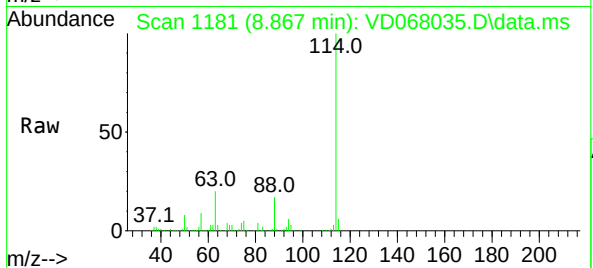
Tgt Ion:114 Resp: 558786

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.4

88 16.5 0.0 33.2



#35

Dibromofluoromethane

Concen: 53.33 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.000 min

Lab File: VD068035.D

Acq: 07 Jan 2021 15:39

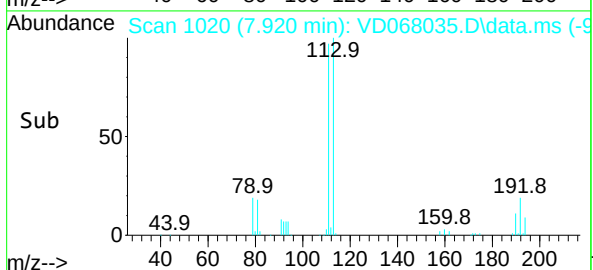
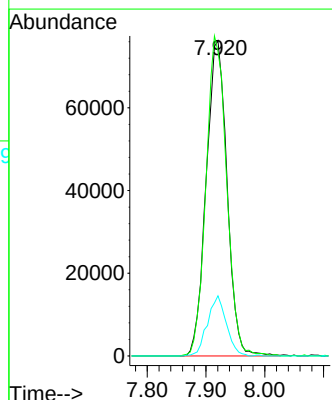
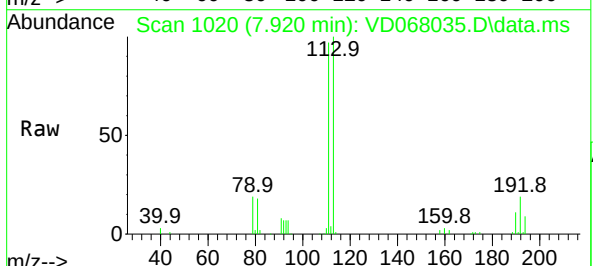
Tgt Ion:113 Resp: 187758

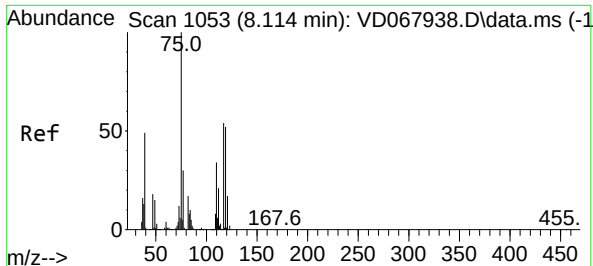
Ion Ratio Lower Upper

113 100

111 100.4 79.3 118.9

192 17.3 14.5 21.7

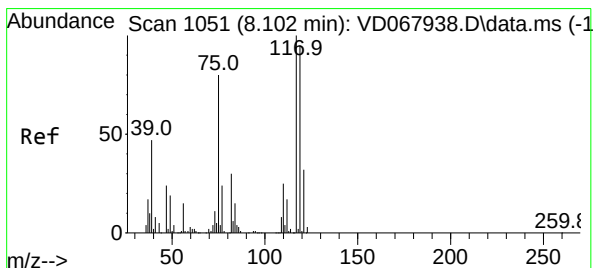
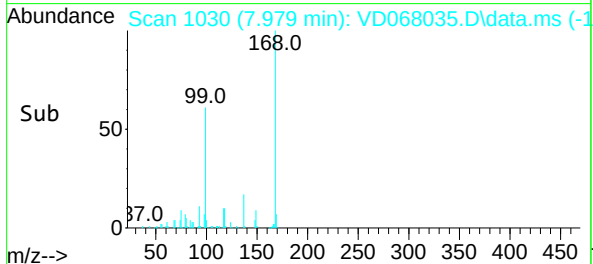
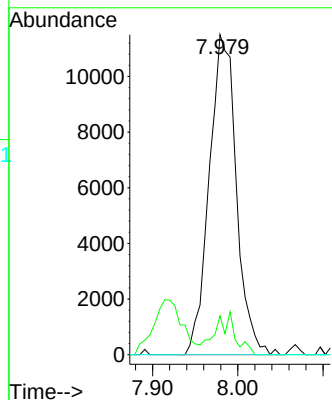
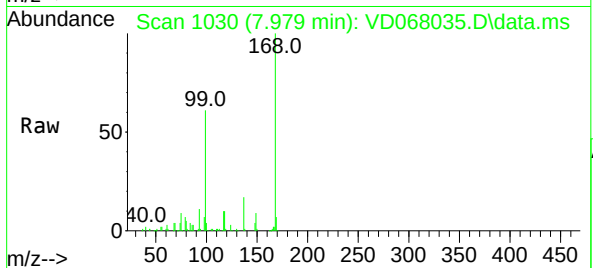




#36  
1,1-Dichloropropene  
Concen: 4.28 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.135 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

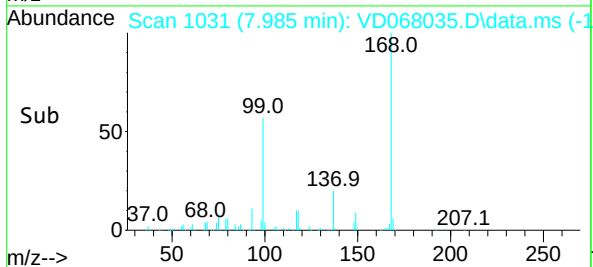
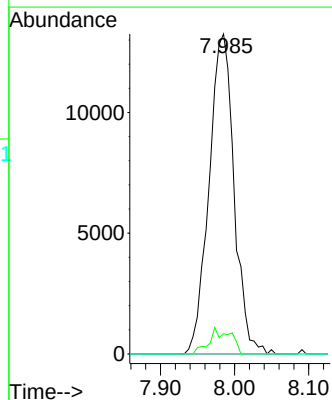
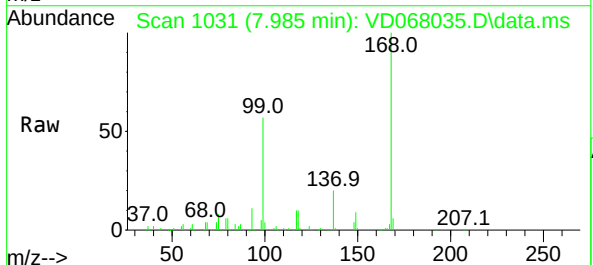
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

Tgt Ion: 75 Resp: 25409  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.0 51.0#  
77 0.0 24.6 37.0#

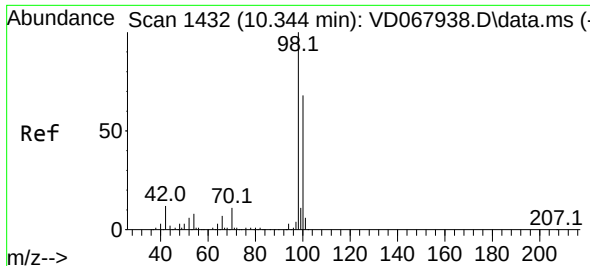


#38  
Carbon Tetrachloride  
Concen: 5.48 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.117 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 117 Resp: 31115  
Ion Ratio Lower Upper  
117 100  
119 6.3 76.2 114.4#  
121 0.0 25.9 38.9#



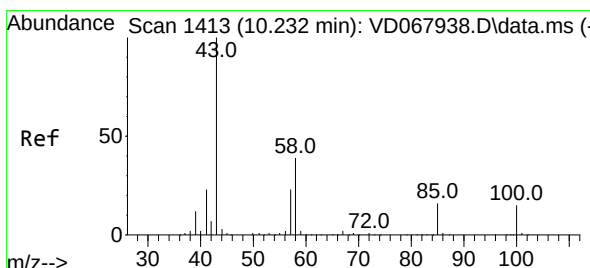
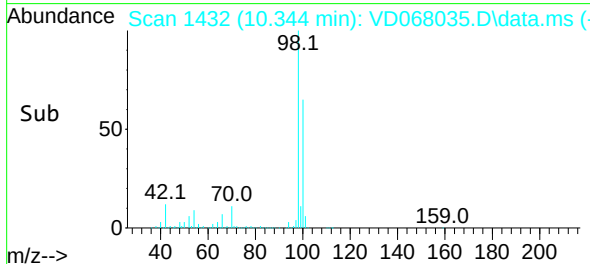
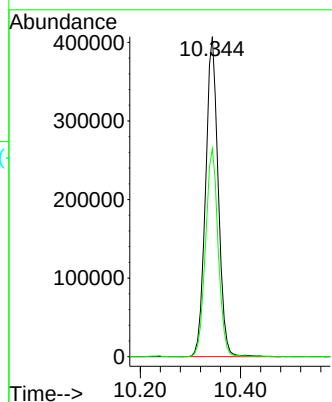
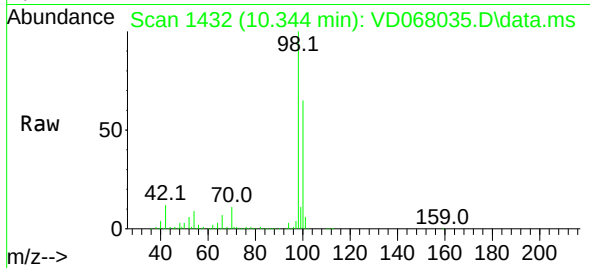




#50  
Toluene-d8  
Concen: 53.56 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

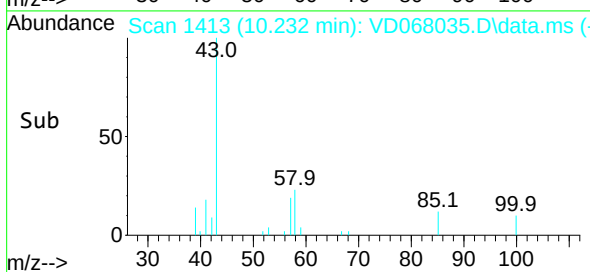
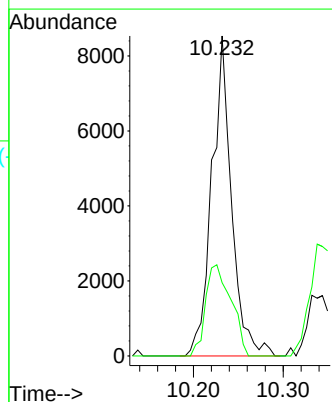
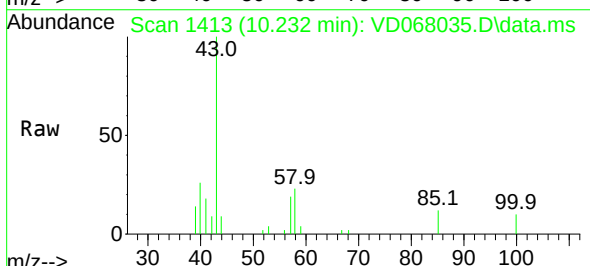
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

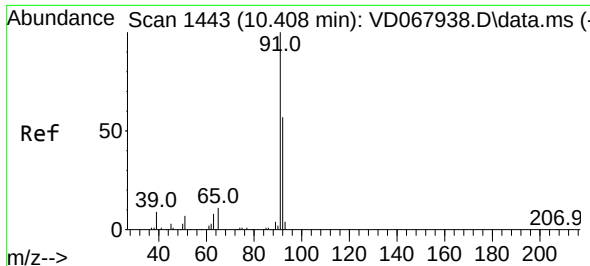
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Ion Ratio Lower Upper  
98 100  
100 65.5 52.5 78.7



#51  
4-Methyl-2-Pentanone  
Concen: 5.72 ug/l  
RT: 10.232 min Scan# 1413  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 43 Resp: 13060  
Ion Ratio Lower Upper  
43 100  
58 36.8 30.0 45.0

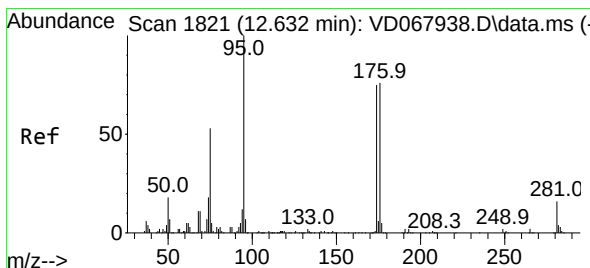
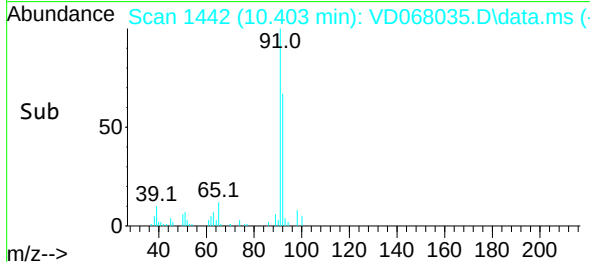
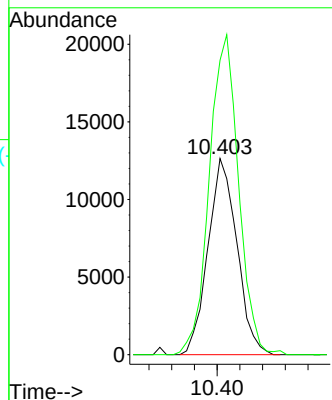
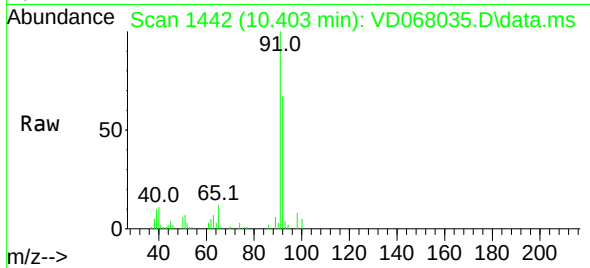




#52  
Toluene  
Concen: 2.10 ug/l  
RT: 10.403 min Scan# 1442  
Delta R.T. -0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

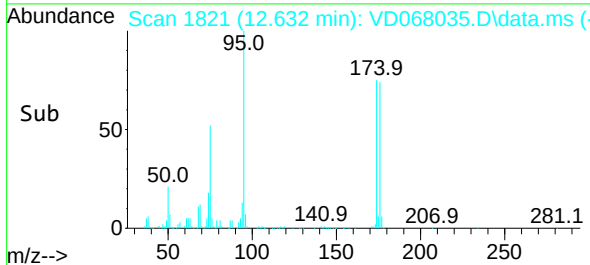
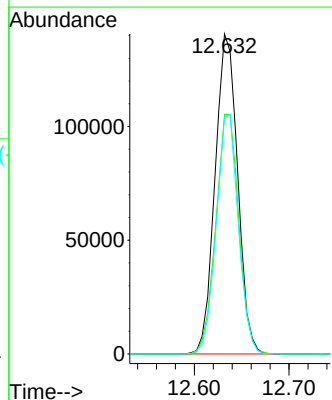
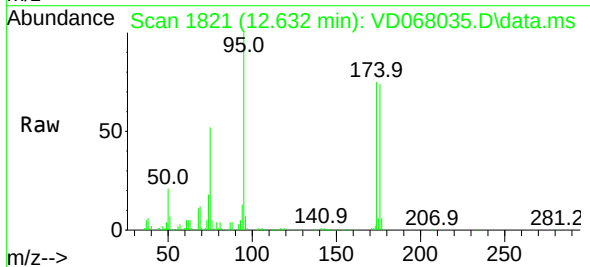
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

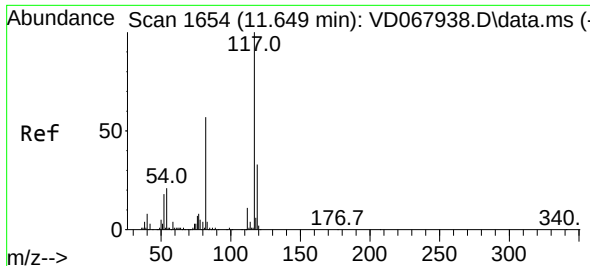
Tgt Ion: 92 Resp: 22355  
Ion Ratio Lower Upper  
92 100  
91 165.2 138.5 207.7



#62  
4-Bromofluorobenzene  
Concen: 51.33 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 95 Resp: 232383  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 150.6  
176 73.4 0.0 151.2

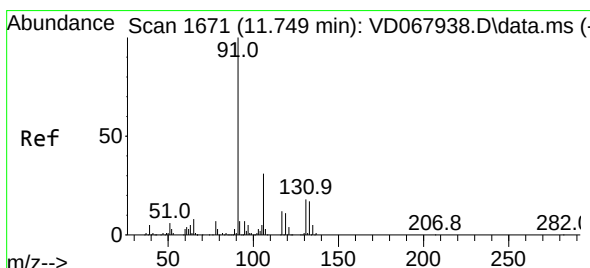
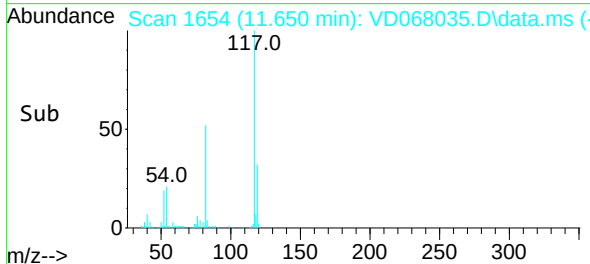
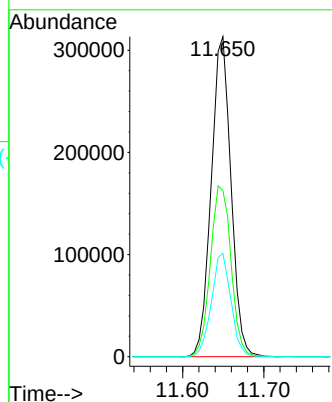
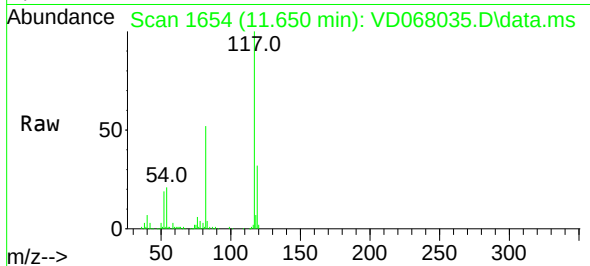




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.650 min Scan# 1654  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

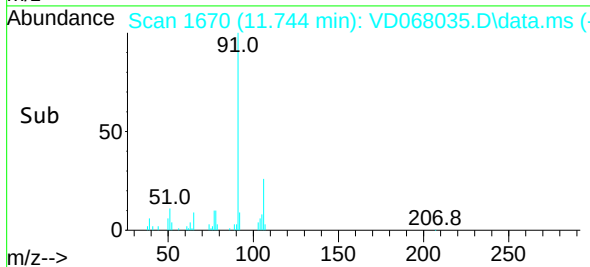
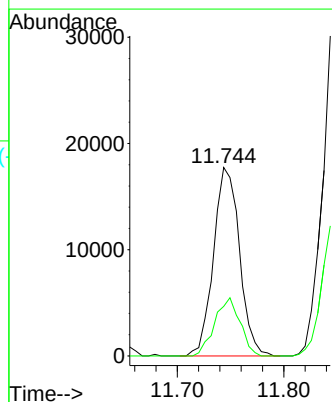
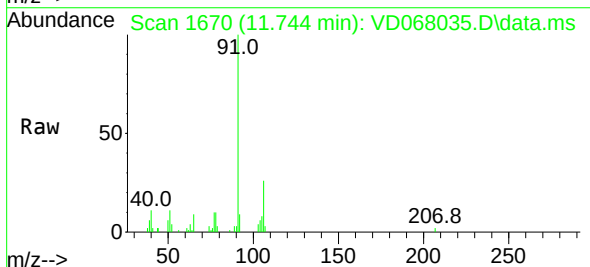
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

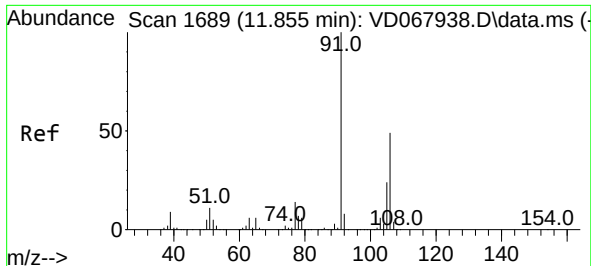
Tgt Ion:117 Resp: 529669  
Ion Ratio Lower Upper  
117 100  
82 51.9 45.4 68.0  
119 32.3 26.7 40.1



#67  
Ethyl Benzene  
Concen: 1.48 ug/l  
RT: 11.744 min Scan# 1670  
Delta R.T. -0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 91 Resp: 30073  
Ion Ratio Lower Upper  
91 100  
106 26.3 24.6 37.0

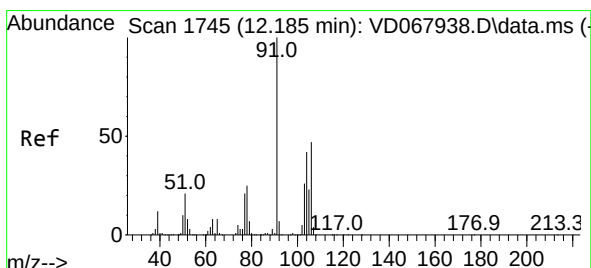
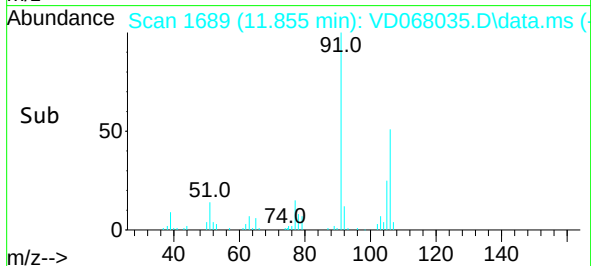
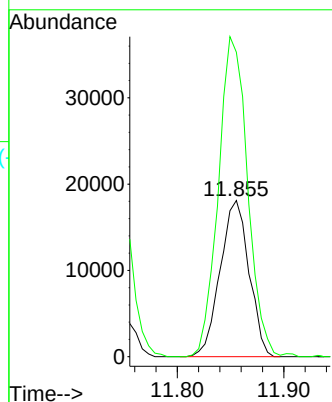
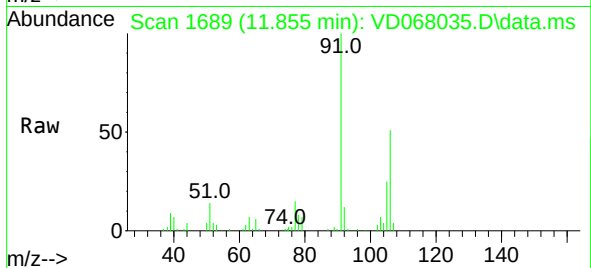




#68  
m/p-Xylenes  
Concen: 4.39 ug/l  
RT: 11.855 min Scan# 1689  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

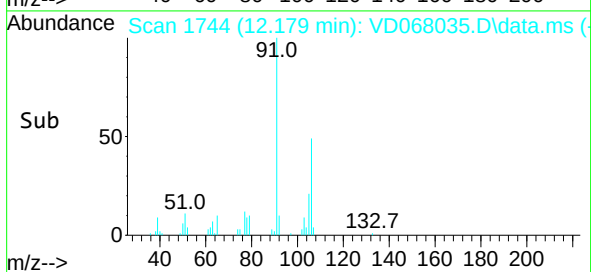
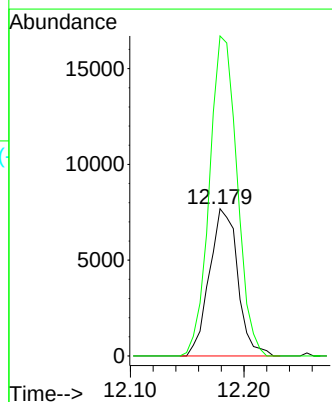
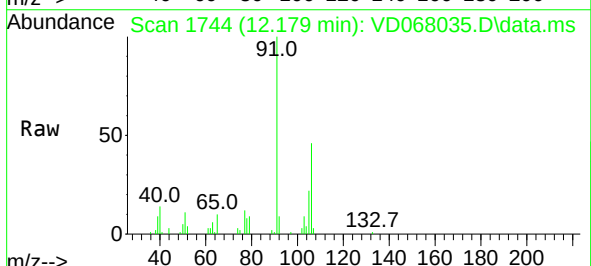
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

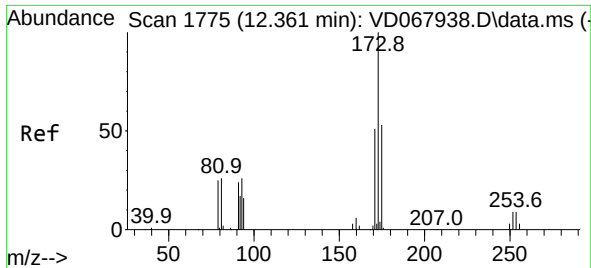
Tgt Ion:106 Resp: 34073  
Ion Ratio Lower Upper  
106 100  
91 207.7 159.9 239.9



#69  
o-Xylene  
Concen: 1.92 ug/l  
RT: 12.179 min Scan# 1744  
Delta R.T. -0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion:106 Resp: 13325  
Ion Ratio Lower Upper  
106 100  
91 211.6 106.0 317.9

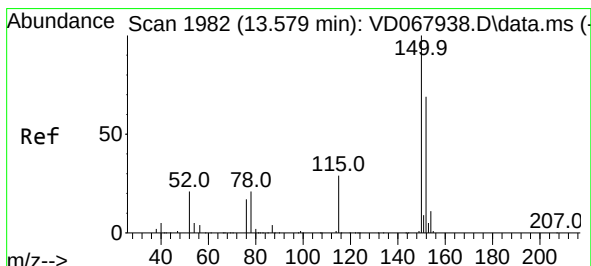
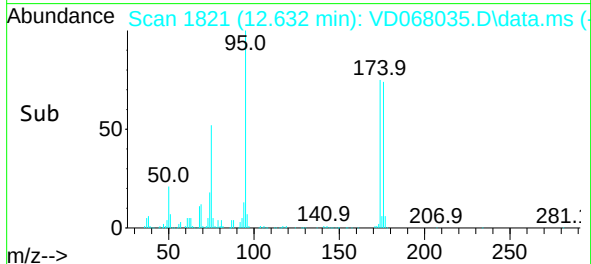
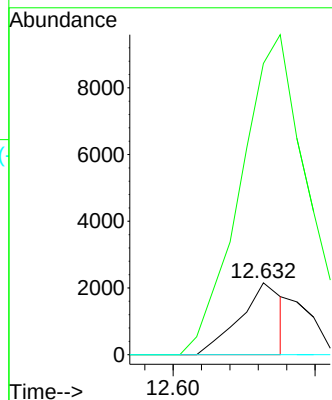
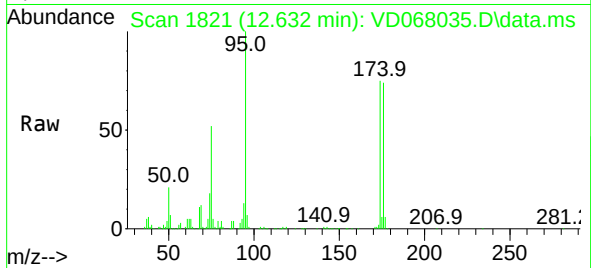




#71  
Bromoform  
Concen: 1.09 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.271 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

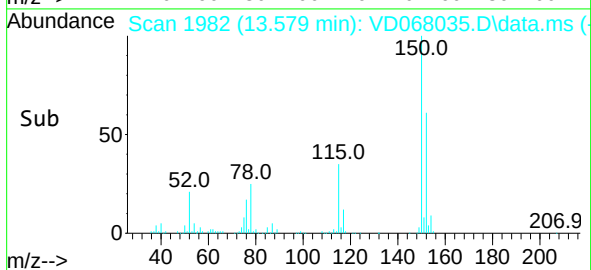
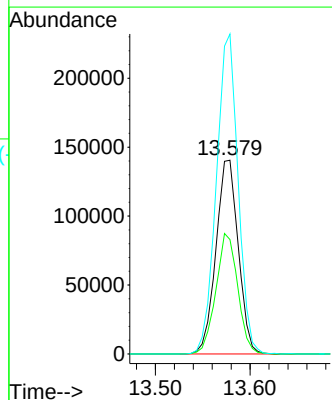
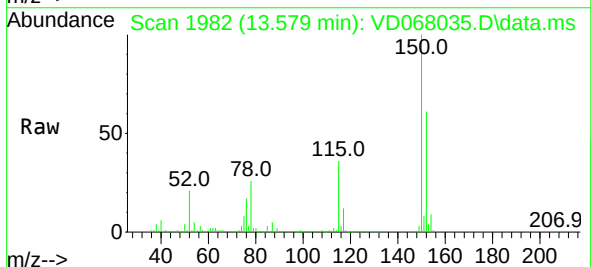
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

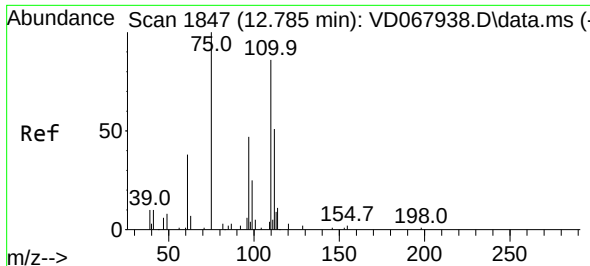
Tgt Ion:173 Resp: 2256  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 73.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.579 min Scan# 1982  
Delta R.T. 0.000 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion:152 Resp: 230657  
Ion Ratio Lower Upper  
152 100  
115 60.8 29.3 88.0  
150 160.4 0.0 340.0

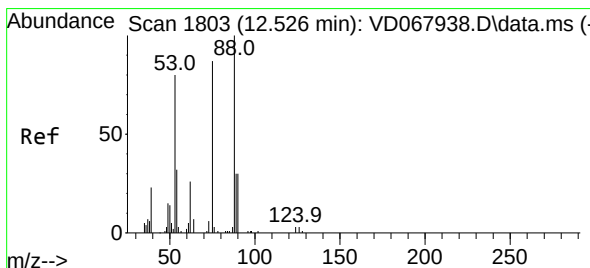
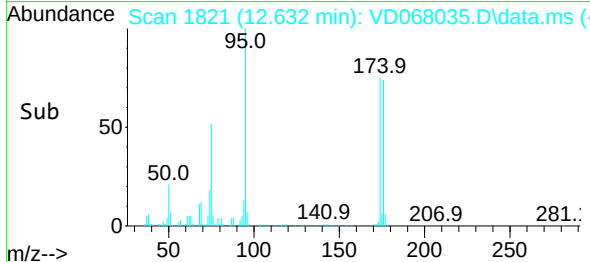
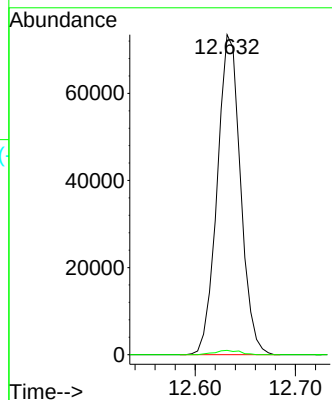
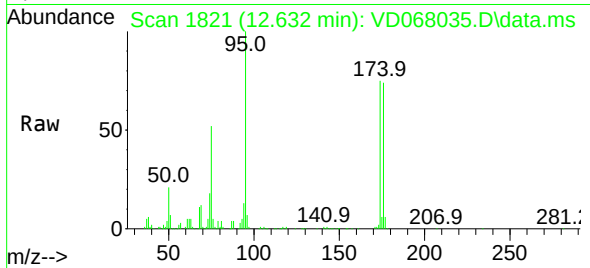




#76  
1,2,3-Trichloropropane  
Concen: 60.96 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.153 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

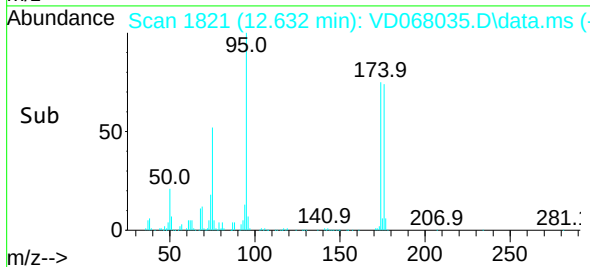
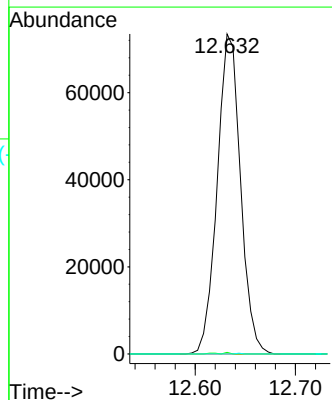
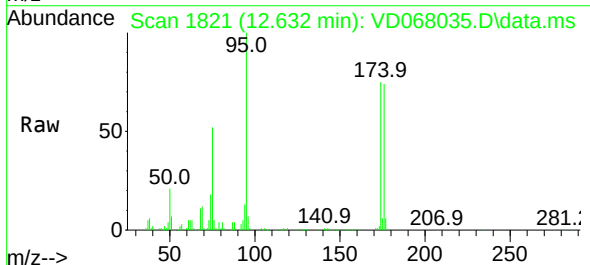
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

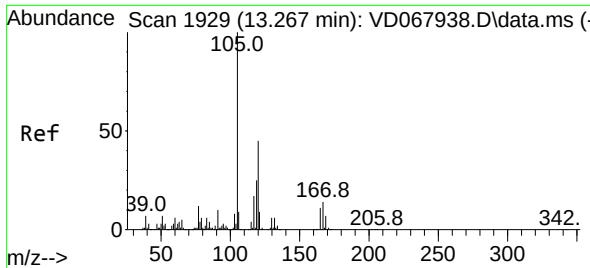
Tgt Ion: 75 Resp: 118376  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 124.95 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.106 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion: 75 Resp: 118376  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.9 112.3#  
89 0.1 33.8 50.8#

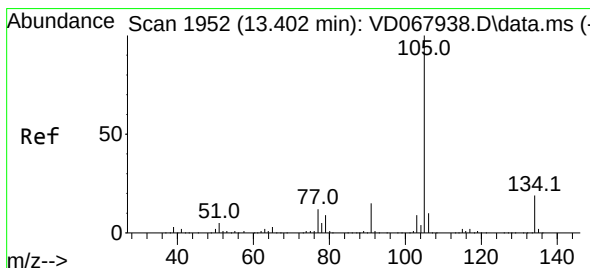
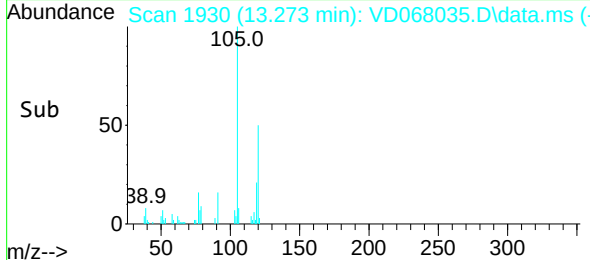
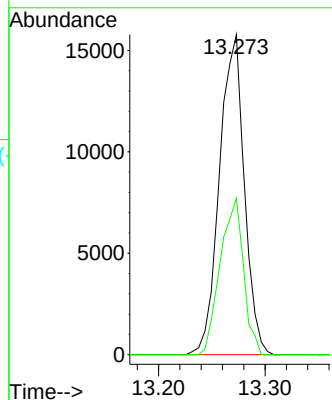
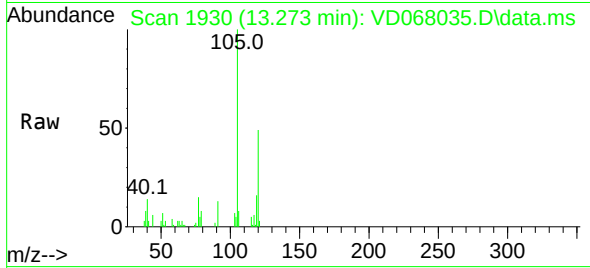




#84  
1,2,4-Trimethylbenzene  
Concen: 1.79 ug/l  
RT: 13.273 min Scan# 1930  
Delta R.T. 0.006 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Instrument :  
MSVOA\_D  
ClientSampled :  
TP-8

Tgt Ion:105 Resp: 25493  
Ion Ratio Lower Upper  
105 100  
120 45.8 22.7 68.0



#85  
sec-Butylbenzene  
Concen: 1.49 ug/l  
RT: 13.273 min Scan# 1930  
Delta R.T. -0.129 min  
Lab File: VD068035.D  
Acq: 07 Jan 2021 15:39

Tgt Ion:105 Resp: 25493  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.7 29.1#

