

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081921\  
 Data File : VD070158.D  
 Acq On : 19 Aug 2021 10:34  
 Operator : VA/SY  
 Sample : VD0819SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0819SBL01

Quant Time: Aug 20 05:46:03 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 599169   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 1153153  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 1108433  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 477892   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 368590   | 52.303   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 104.600% |
| 35) Dibromofluoromethane    | 7.909  | 113   | 372912   | 50.055   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 100.100% |
| 50) Toluene-d8              | 10.338 | 98    | 1484871  | 51.243   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 102.480% |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 481942   | 50.496   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 101.000% |

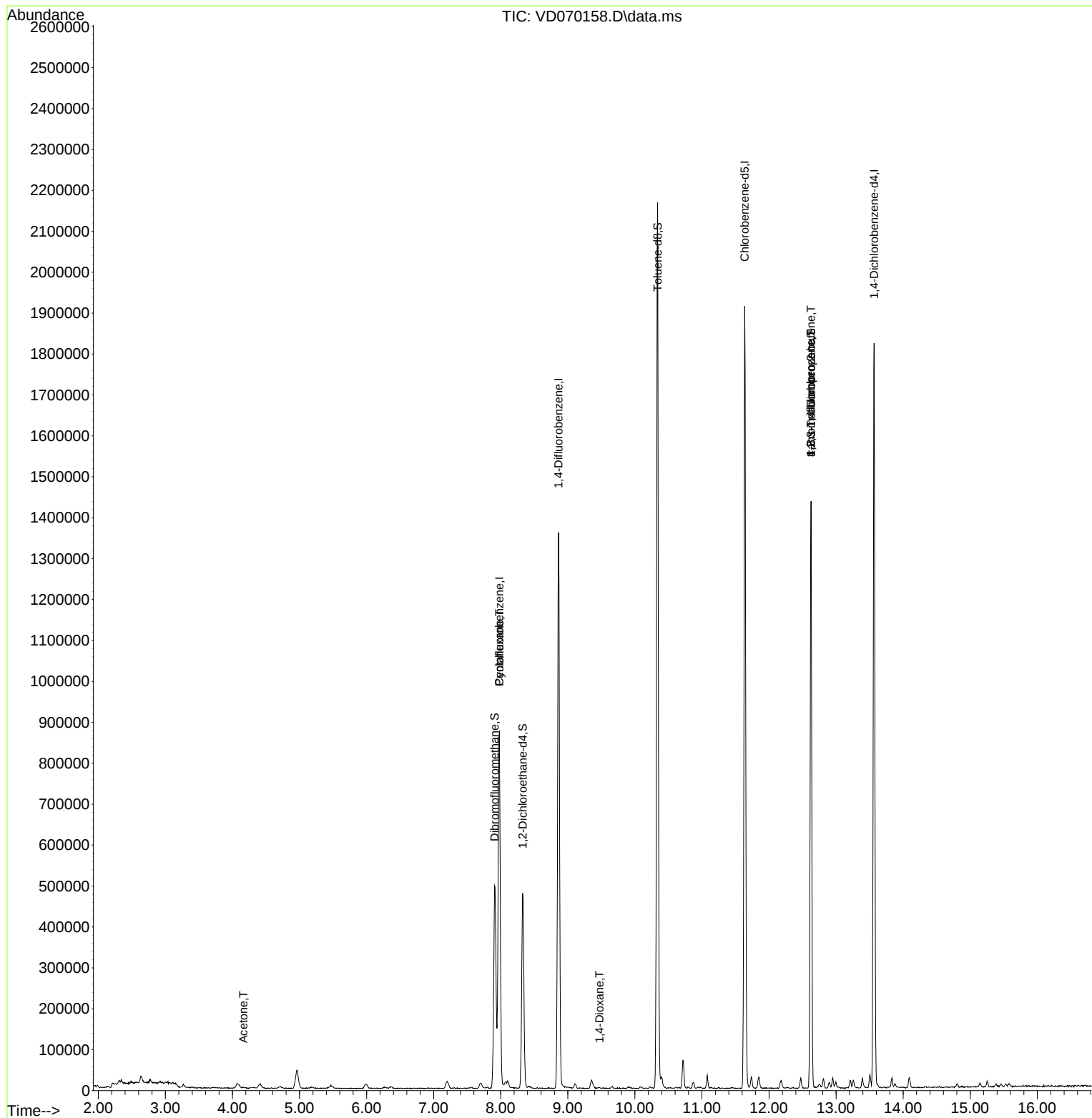
| Target Compounds              |        |    |        |              | Qvalue |
|-------------------------------|--------|----|--------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.985  | 85 | 4231   | Below Cal    | 81     |
| 3) Chloromethane              | 2.209  | 50 | 5717   | Below Cal    | # 85   |
| 5) Bromomethane               | 2.779  | 94 | 5925   | Below Cal    | # 79   |
| 16) Acetone                   | 4.162  | 43 | 2469   | 1.902 ug/l   | # 78   |
| 20) Methylene Chloride        | 4.968  | 84 | 34925  | Below Cal    | 95     |
| 31) Cyclohexane               | 7.979  | 56 | 21352  | 1.531 ug/l   | # 1    |
| 49) 1,4-Dioxane               | 9.473  | 88 | 64     | 1.295 ug/l   | # 43   |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75 | 233641 | 48.208 ug/l  | # 1    |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75 | 233641 | 125.131 ug/l | # 18   |

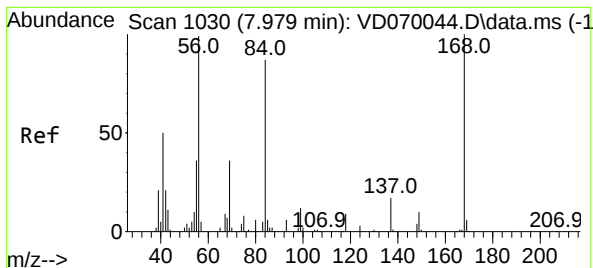
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Aug 14 02:33:51 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VD070158.D

Acq: 19 Aug 2021 10:34

Instrument :

MSVOA\_D

ClientSampleId :

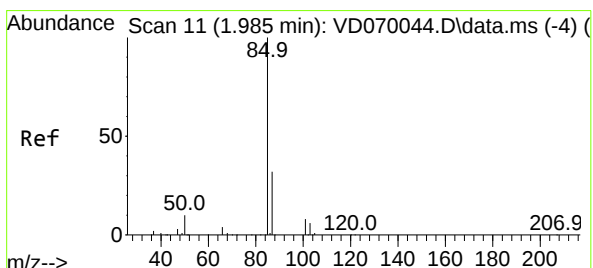
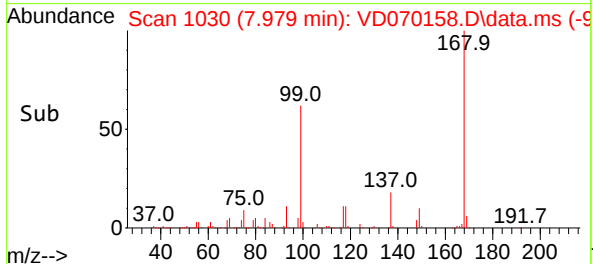
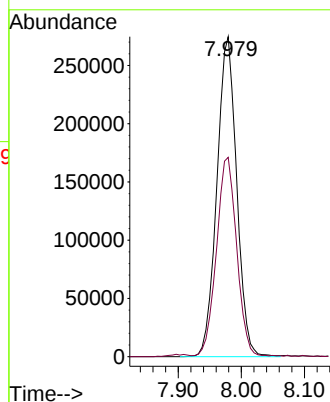
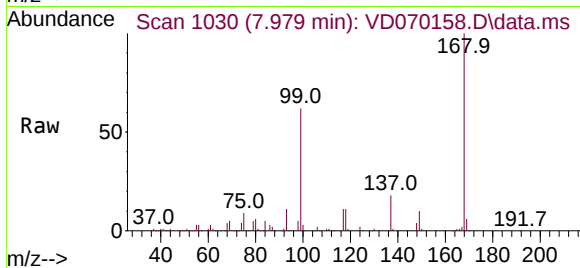
VD0819SBL01

Tgt Ion:168 Resp: 599169

Ion Ratio Lower Upper

168 100

99 62.0 50.3 75.5



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.985 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD070158.D

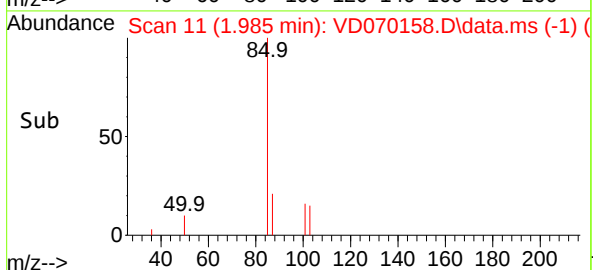
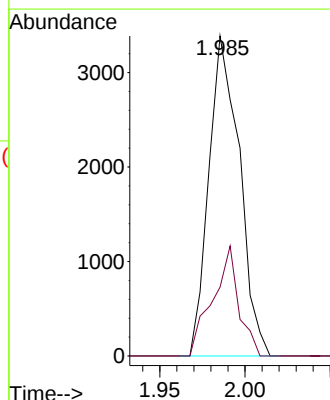
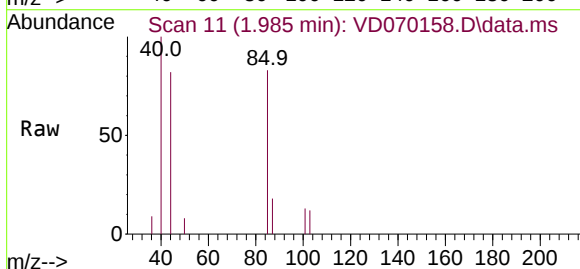
Acq: 19 Aug 2021 10:34

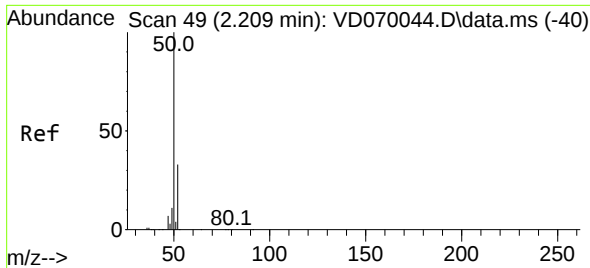
Tgt Ion: 85 Resp: 4231

Ion Ratio Lower Upper

85 100

87 21.5 16.2 48.6

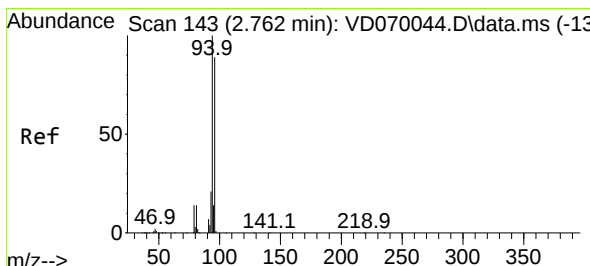
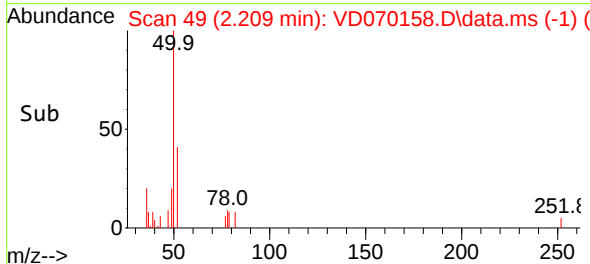
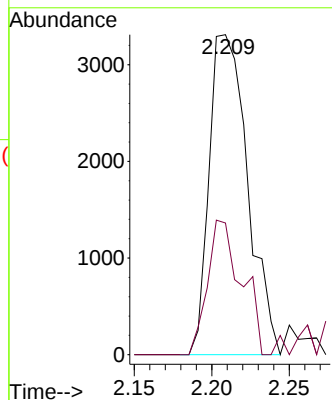
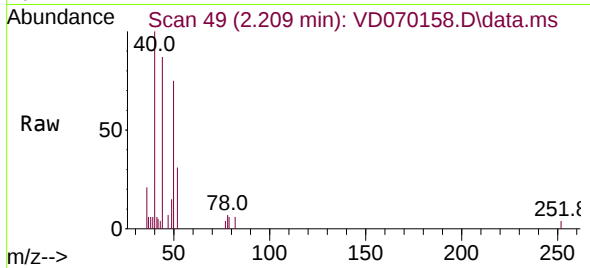




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

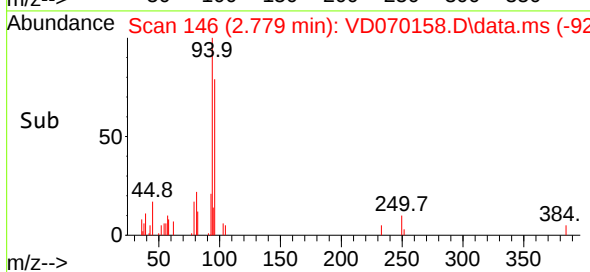
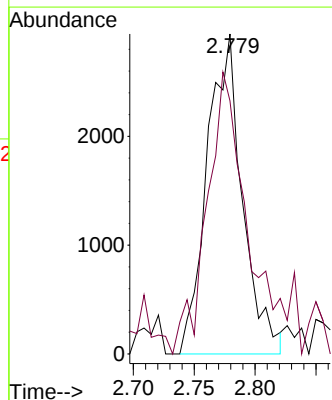
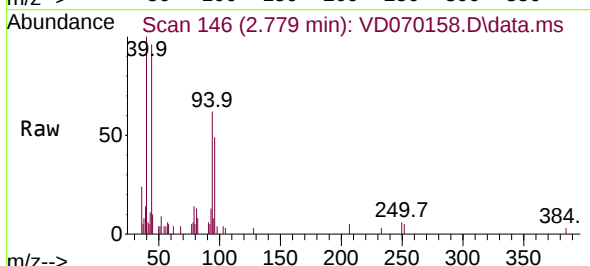
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0819SBL01

Tgt Ion: 50 Resp: 5717  
Ion Ratio Lower Upper  
50 100  
52 41.1 26.3 39.5#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.017 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

Tgt Ion: 94 Resp: 5925  
Ion Ratio Lower Upper  
94 100  
96 69.1 70.9 106.3#

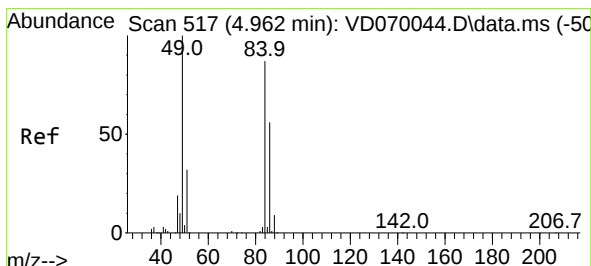
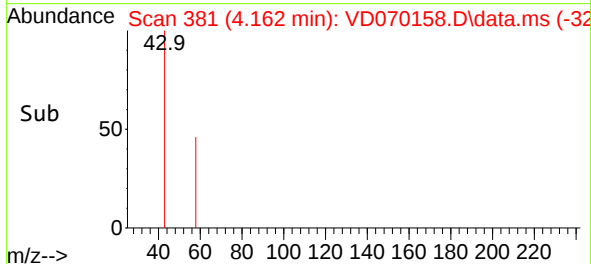
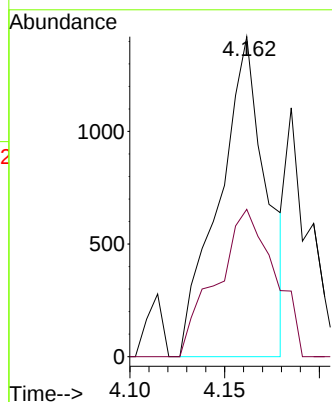
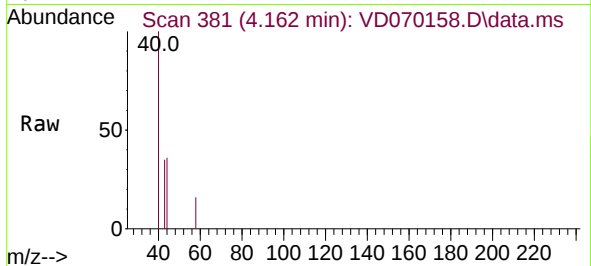




#16  
Acetone  
Concen: 1.902 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

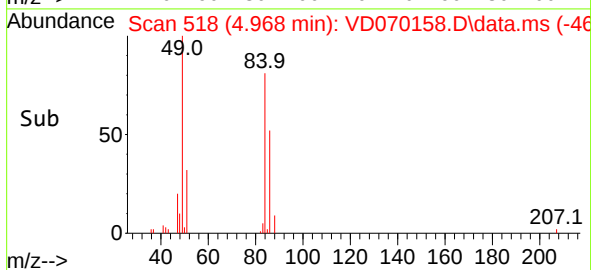
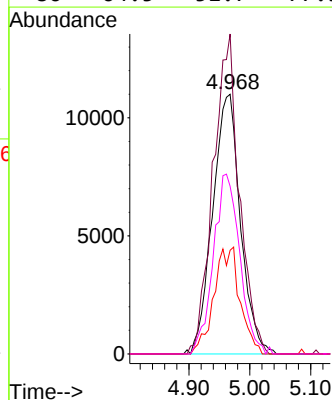
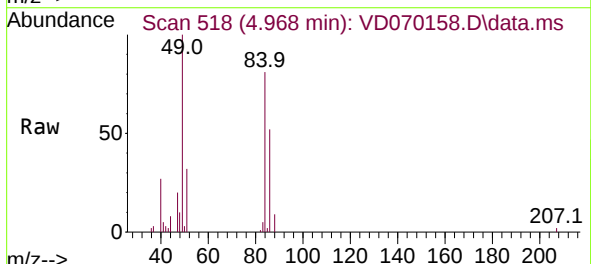
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0819SBL01

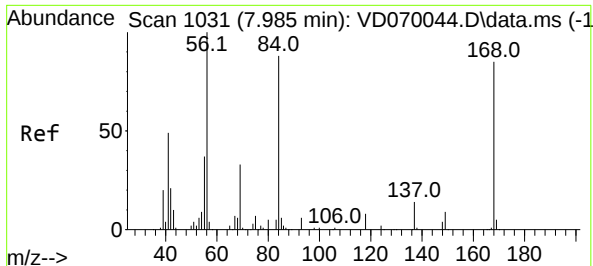
Tgt Ion: 43 Resp: 2469  
Ion Ratio Lower Upper  
43 100  
58 46.0 26.8 40.2#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.968 min Scan# 518  
Delta R.T. 0.006 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

Tgt Ion: 84 Resp: 34925  
Ion Ratio Lower Upper  
84 100  
49 123.2 92.5 138.7  
51 39.9 29.7 44.5  
86 64.5 51.7 77.5

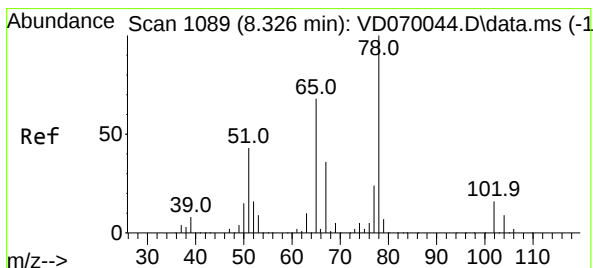
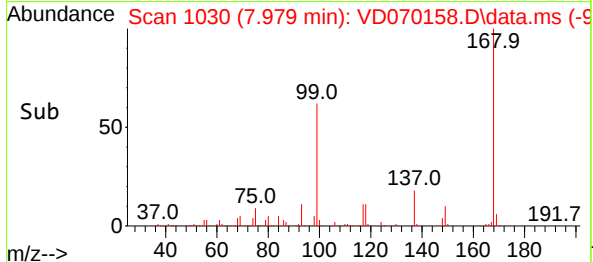
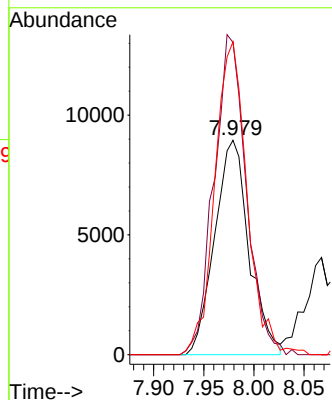
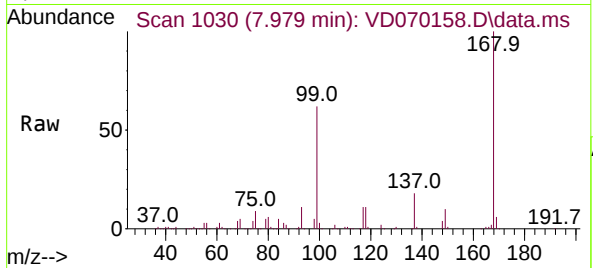




#31  
Cyclohexane  
Concen: 1.531 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

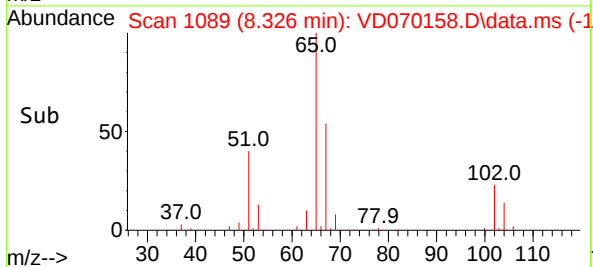
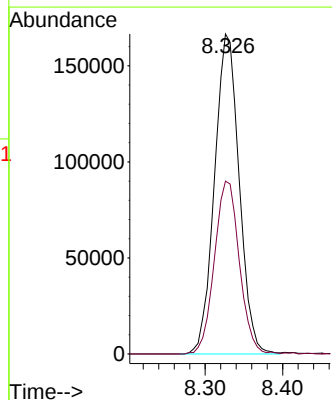
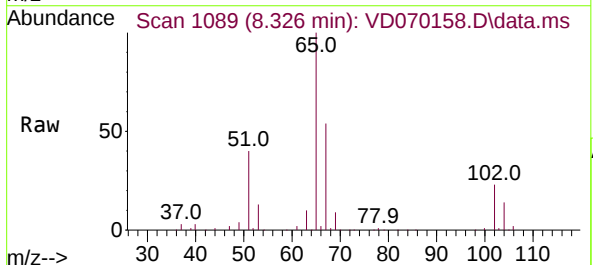
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0819SBL01

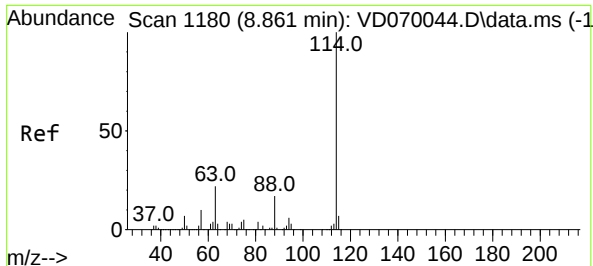
Tgt Ion: 56 Resp: 21352  
Ion Ratio Lower Upper  
56 100  
69 145.7 26.7 40.1#  
84 146.0 70.4 105.6#



#33  
1,2-Dichloroethane-d4  
Concen: 52.303 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

Tgt Ion: 65 Resp: 368590  
Ion Ratio Lower Upper  
65 100  
67 54.6 0.0 107.8



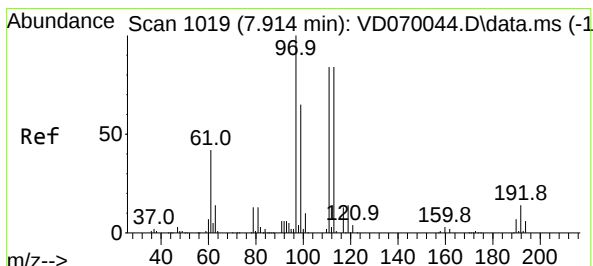
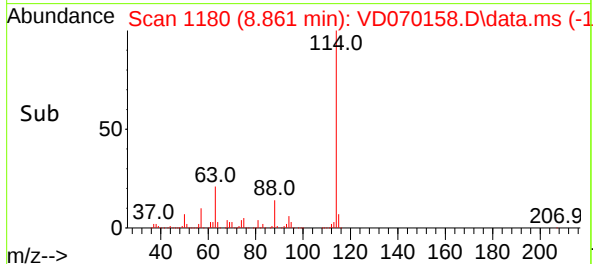
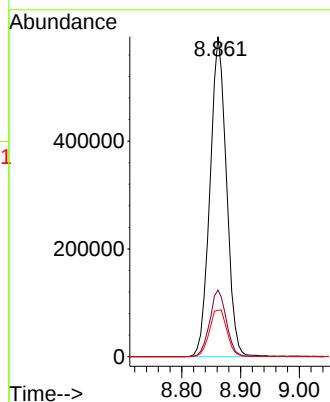
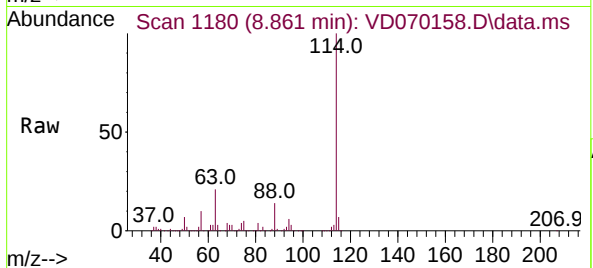


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0819SBL01

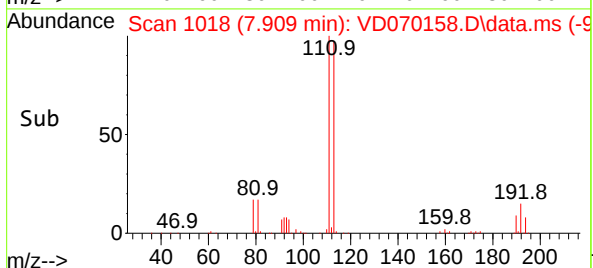
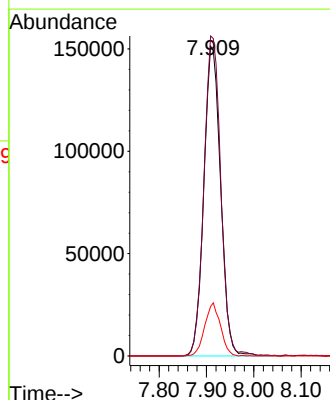
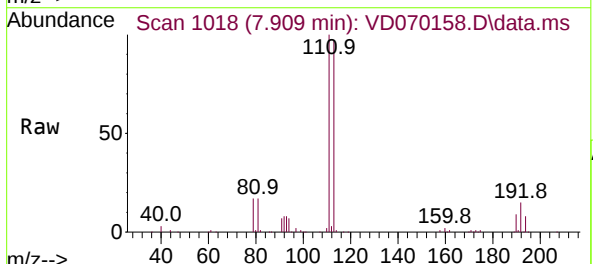
Tgt Ion:114 Resp: 1153153  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 43.6  
88 14.5 0.0 33.4

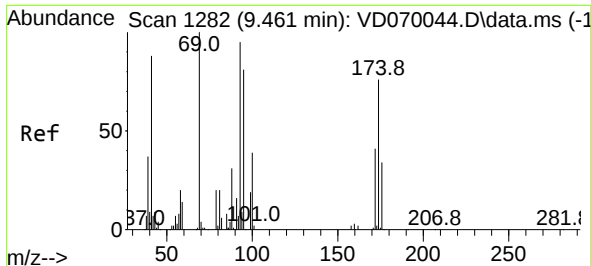


#35

Dibromofluoromethane  
Concen: 50.055 ug/l  
RT: 7.909 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

Tgt Ion:113 Resp: 372912  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.8 122.6  
192 16.1 13.2 19.8





#49

1,4-Dioxane

Concen: 1.295 ug/l

RT: 9.473 min Scan# 1284

Delta R.T. 0.012 min

Lab File: VD070158.D

Acq: 19 Aug 2021 10:34

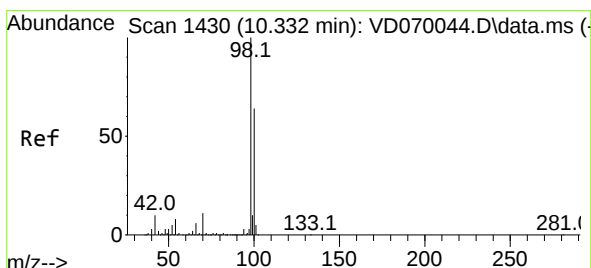
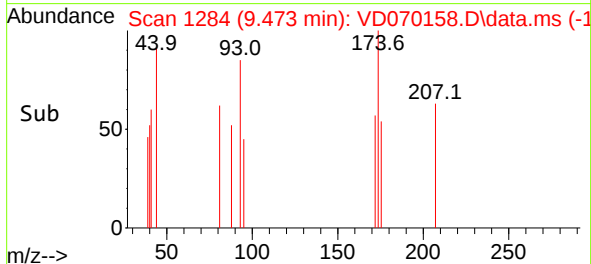
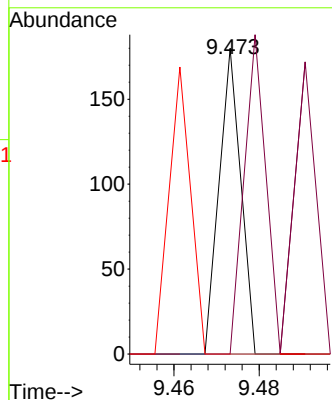
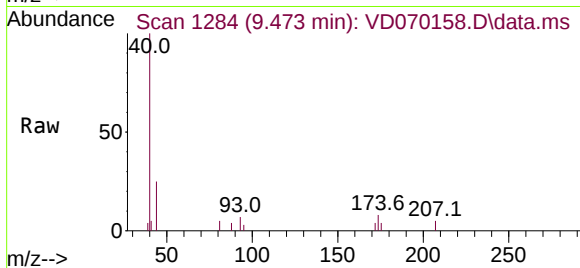
Instrument :

MSVOA\_D

ClientSampleId :

VD0819SBL01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 64    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 103.1 | 25.8  | 38.6# |
| 58       | 93.8  | 57.4  | 86.2# |



#50

Toluene-d8

Concen: 51.243 ug/l

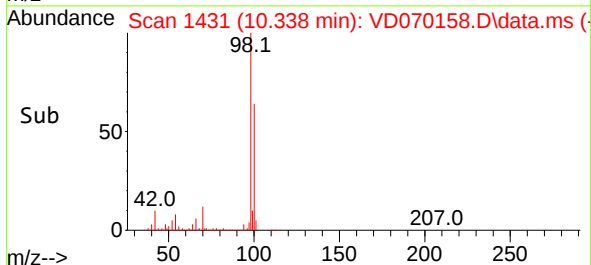
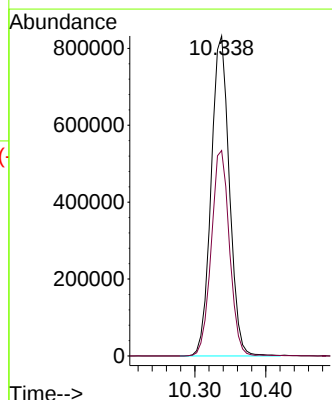
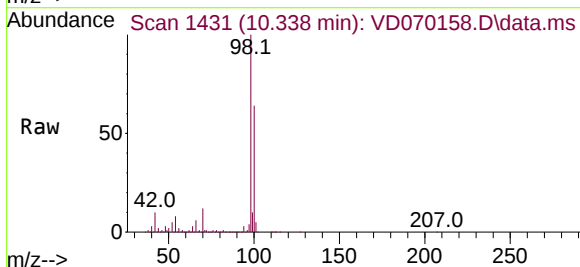
RT: 10.338 min Scan# 1431

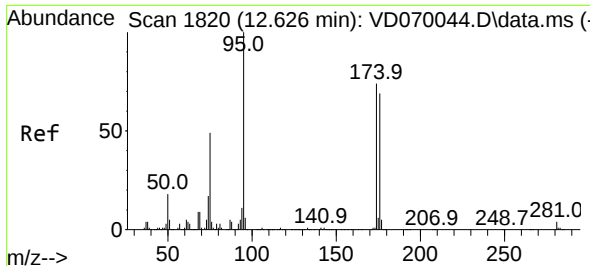
Delta R.T. 0.006 min

Lab File: VD070158.D

Acq: 19 Aug 2021 10:34

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 98    | Resp: | 1484871 |
| Ion      | Ratio | Lower | Upper   |
| 98       | 100   |       |         |
| 100      | 64.2  | 52.6  | 78.8    |

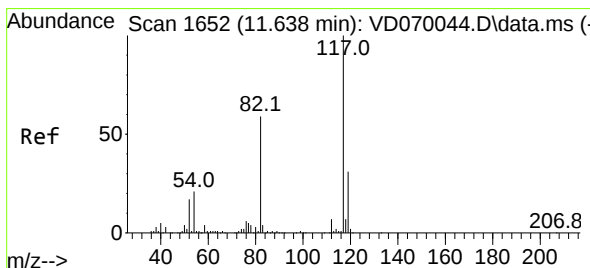
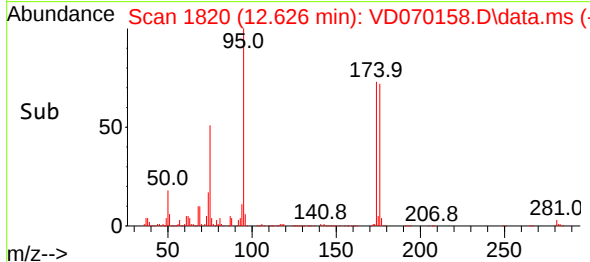
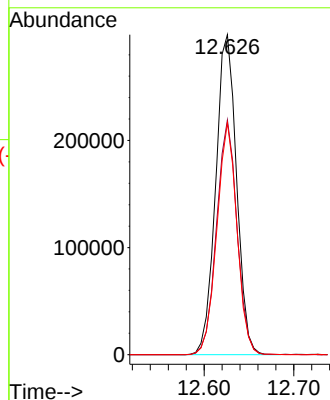
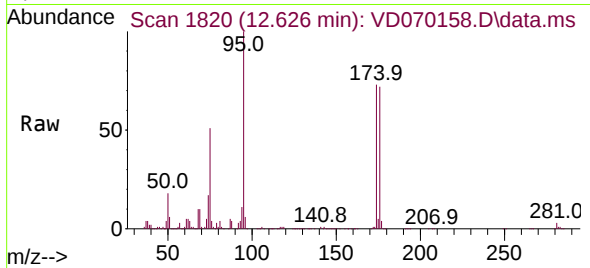




#62  
4-Bromofluorobenzene  
Concen: 50.496 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.000 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

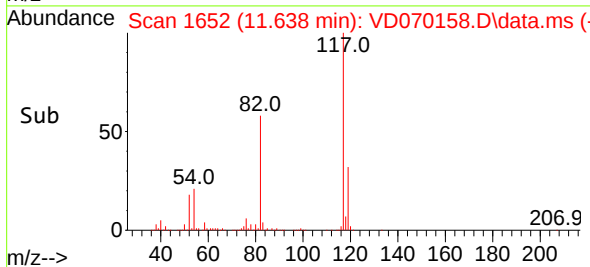
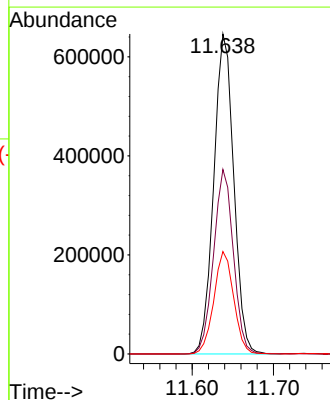
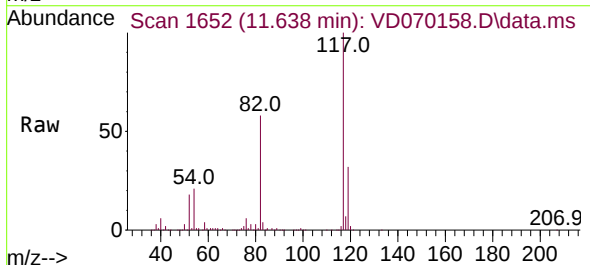
Instrument :  
MSVOA\_D  
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VD0819SBL01

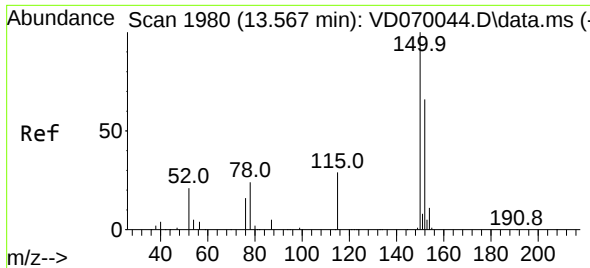
Tgt Ion: 95 Resp: 481942  
Ion Ratio Lower Upper  
95 100  
174 71.9 0.0 141.6  
176 69.8 0.0 138.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070158.D  
Acq: 19 Aug 2021 10:34

Tgt Ion: 117 Resp: 1108433  
Ion Ratio Lower Upper  
117 100  
82 57.7 47.5 71.3  
119 32.0 25.1 37.7

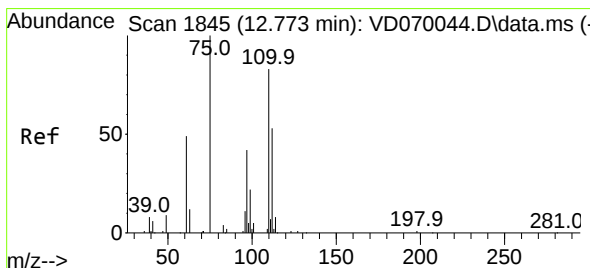
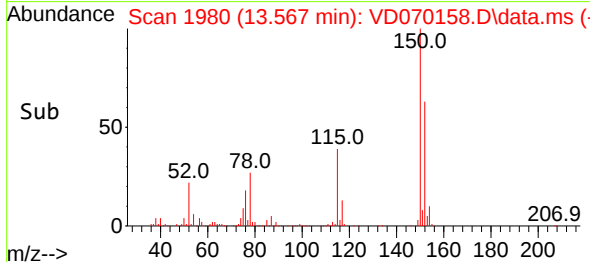
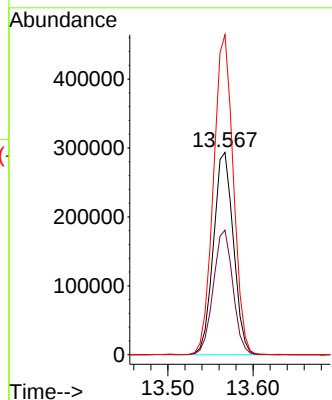
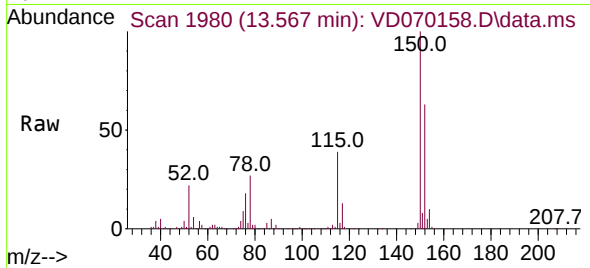




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.567 min Scan# 1980  
 Delta R.T. 0.000 min  
 Lab File: VD070158.D  
 Acq: 19 Aug 2021 10:34

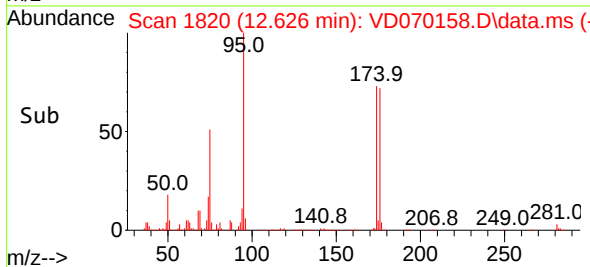
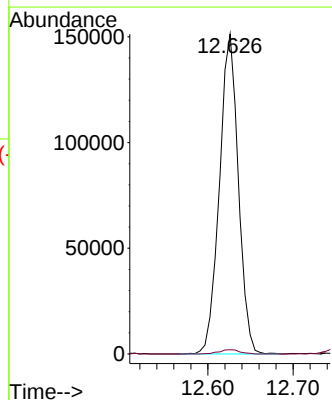
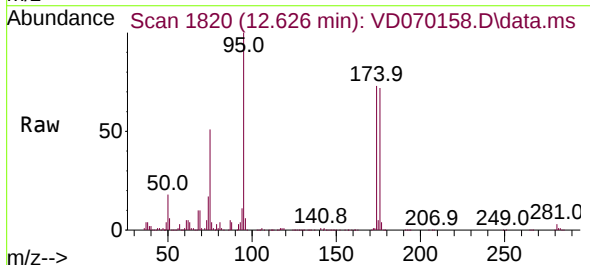
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0819SBL01

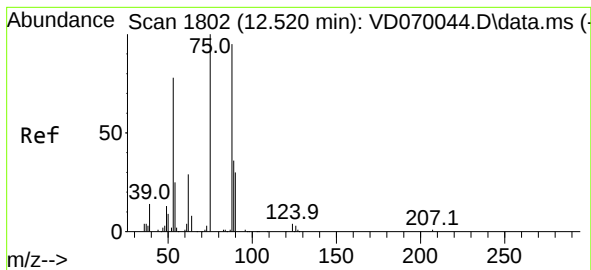
Tgt Ion:152 Resp: 477892  
 Ion Ratio Lower Upper  
 152 100  
 115 60.4 31.2 93.6  
 150 157.4 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 48.208 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. -0.147 min  
 Lab File: VD070158.D  
 Acq: 19 Aug 2021 10:34

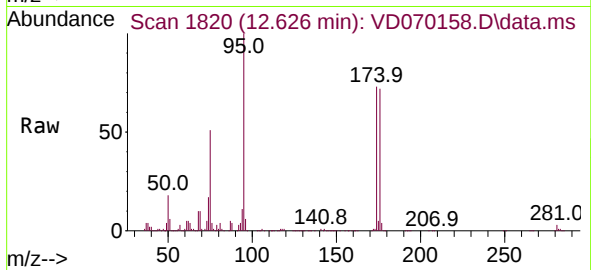
Tgt Ion: 75 Resp: 233641  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 182.4 547.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 125.131 ug/l  
 RT: 12.626 min Scan# 1820  
 Delta R.T. 0.106 min  
 Lab File: VD070158.D  
 Acq: 19 Aug 2021 10:34

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0819SBL01



Tgt Ion: 75 Resp: 233641  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 64.5 96.7#  
 89 0.0 33.7 50.5#

