

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062222\  
 Data File : VD073650.D  
 Acq On : 22 Jun 2022 12:38  
 Operator : VA/SY  
 Sample : VD0622SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0622SBL01

Quant Time: Jun 23 09:26:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 21 05:24:45 2022  
 Response via : Initial Calibration

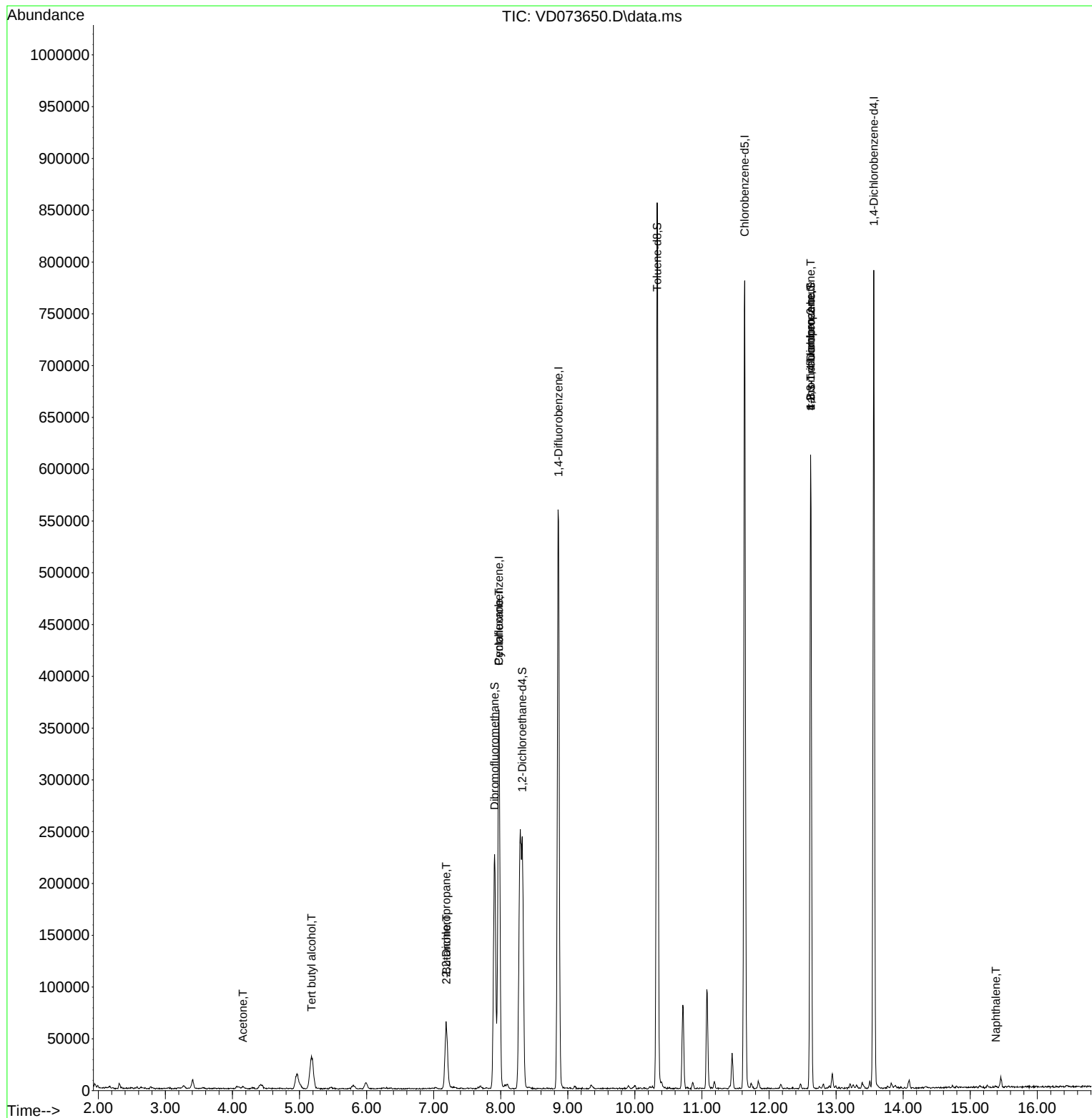
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 264111   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861     | 114   | 487028   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638    | 117   | 457256   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561    | 152   | 205088   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.320     | 65    | 166877   | 54.914    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 109.820% |          |
| 35) Dibromofluoromethane      | 7.909     | 113   | 163737   | 46.344    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 92.680%  |          |
| 50) Toluene-d8                | 10.332    | 98    | 572602   | 45.280    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 90.560%  |          |
| 62) 4-Bromofluorobenzene      | 12.620    | 95    | 190654   | 41.111    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 82.220%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.985     | 85    | 1318     | Below Cal |            | 94       |
| 5) Bromomethane               | 2.779     | 94    | 1311     | Below Cal | #          | 66       |
| 11) Tert butyl alcohol        | 5.179     | 59    | 29721    | 93.139    | ug/l #     | 77       |
| 16) Acetone                   | 4.156     | 43    | 3179     | 6.580     | ug/l       | 97       |
| 18) Methyl Acetate            | 4.626     | 43    | 70       | Below Cal | #          | 48       |
| 20) Methylene Chloride        | 4.962     | 84    | 11342    | Below Cal |            | 96       |
| 25) 2-Butanone                | 7.191     | 43    | 4043     | 5.749     | ug/l #     | 44       |
| 26) 2,2-Dichloropropane       | 7.185     | 77    | 5505     | 1.089     | ug/l #     | 56       |
| 31) Cyclohexane               | 7.973     | 56    | 7040     | 1.523     | ug/l #     | 30       |
| 76) 1,2,3-Trichloropropane    | 12.620    | 75    | 99963    | 50.361    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620    | 75    | 99963    | 116.223   | ug/l #     | 14       |
| 95) Naphthalene               | 15.385    | 128   | 1203     | 2.844     | ug/l #     | 75       |
| -----                         |           |       |          |           |            |          |

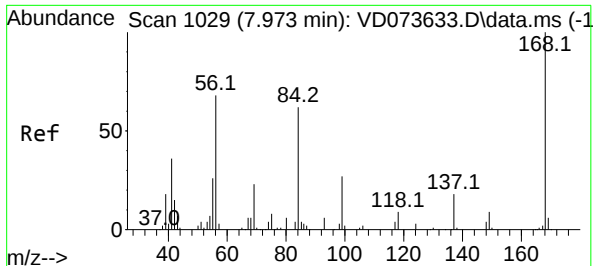
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062222\  
Data File : VD073650.D  
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Sample : VD0622SBL01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

Quant Time: Jun 23 09:26:32 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062022S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 21 05:24:45 2022  
Response via : Initial Calibration

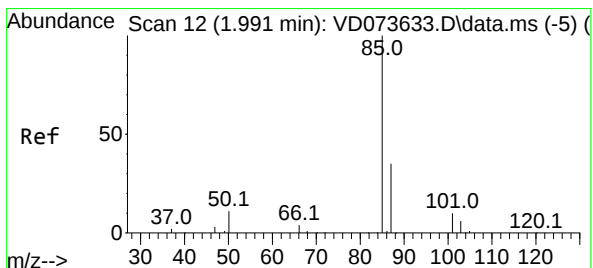
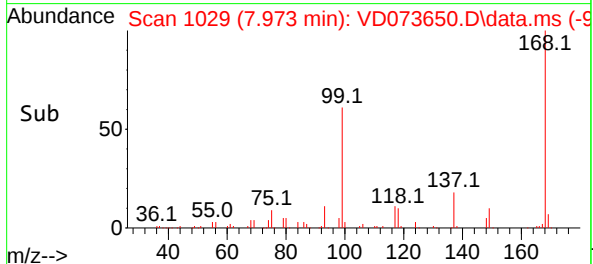
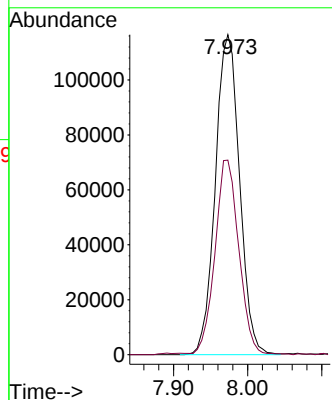
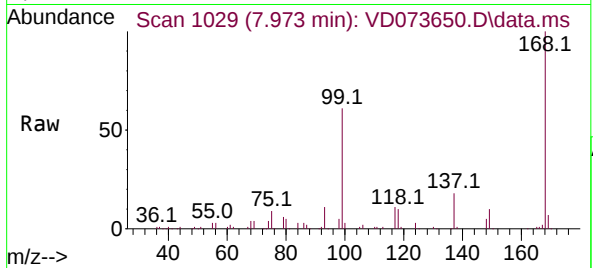




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

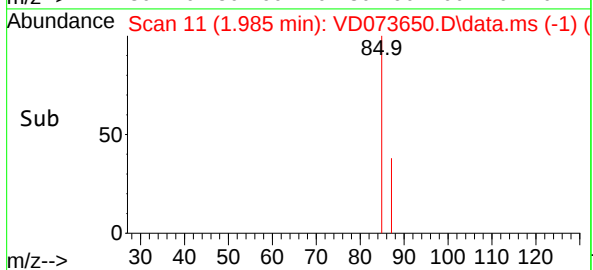
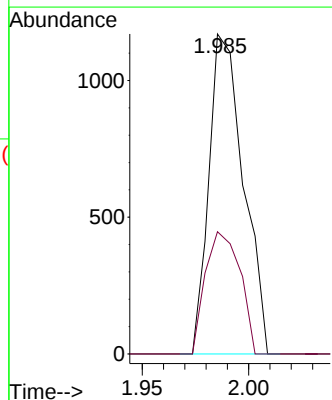
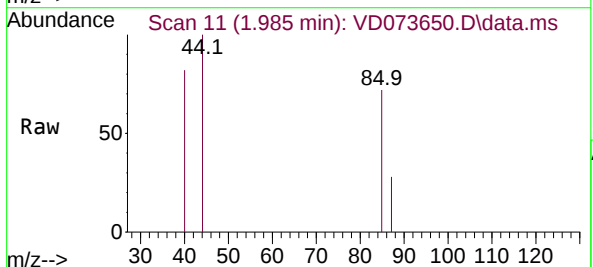
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

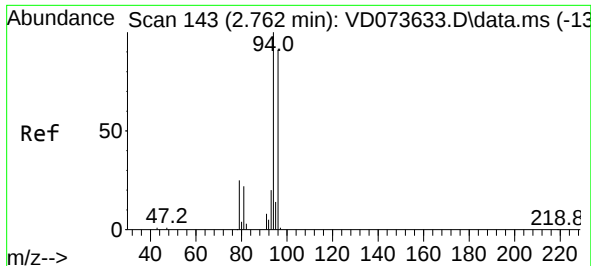
Tgt Ion:168 Resp: 264111  
Ion Ratio Lower Upper  
168 100  
99 60.6 47.4 71.0



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.985 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Tgt Ion: 85 Resp: 1318  
Ion Ratio Lower Upper  
85 100  
87 38.2 17.4 52.2

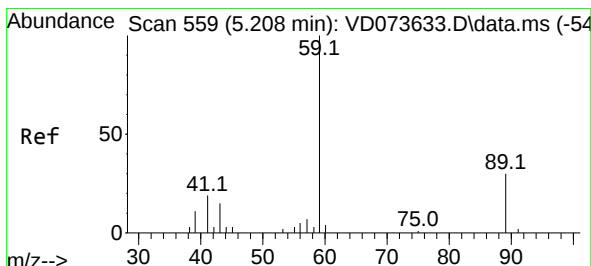
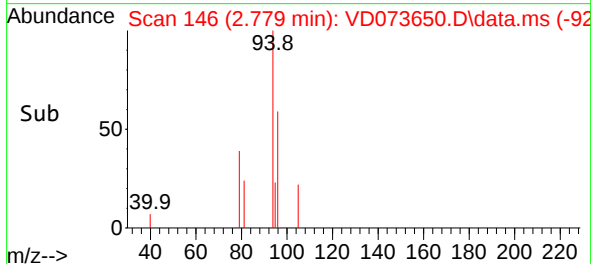
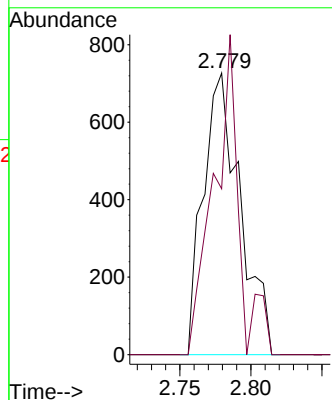
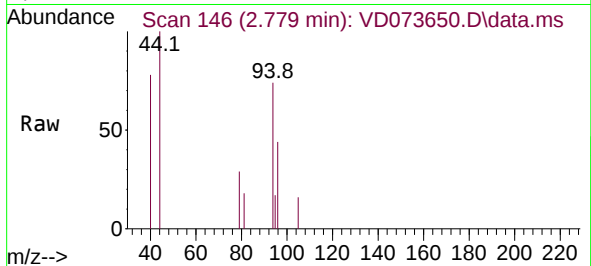




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 143  
Delta R.T. 0.017 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

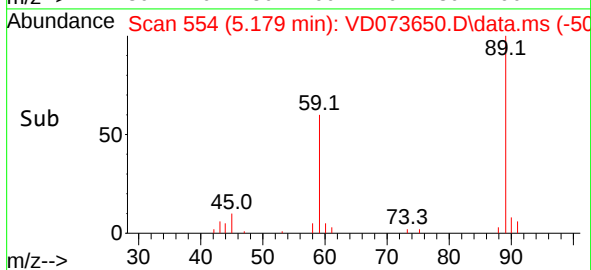
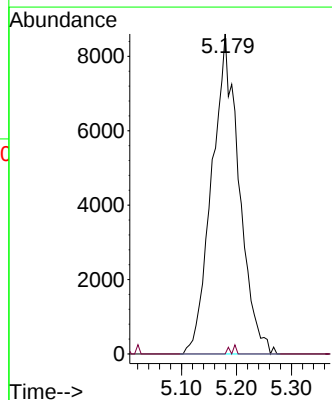
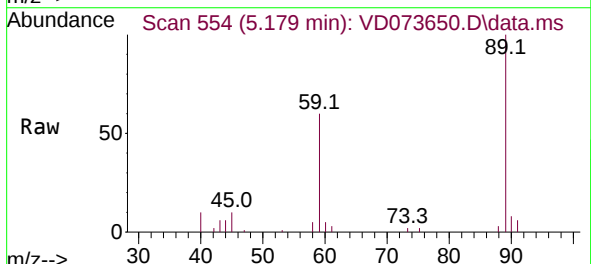
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

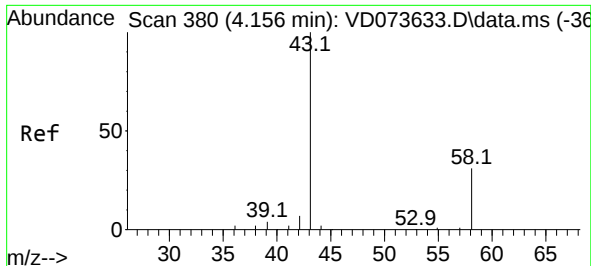
Tgt Ion: 94 Resp: 1311  
Ion Ratio Lower Upper  
94 100  
96 58.9 72.6 108.8#



#11  
Tert butyl alcohol  
Concen: 93.139 ug/l  
RT: 5.179 min Scan# 554  
Delta R.T. -0.029 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Tgt Ion: 59 Resp: 29721  
Ion Ratio Lower Upper  
59 100  
57 0.2 6.7 10.1#

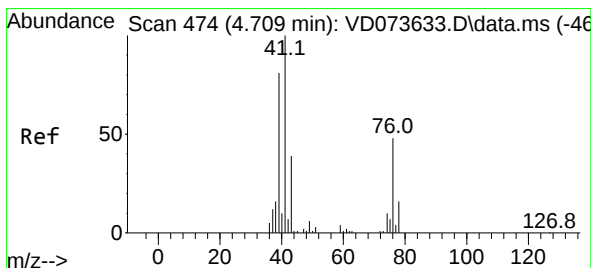
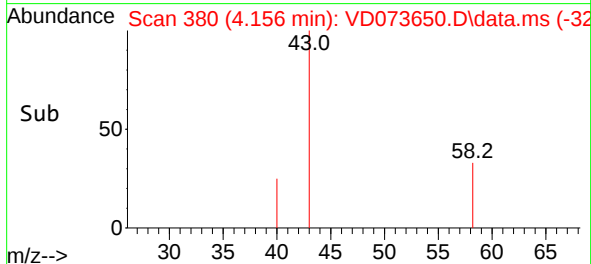
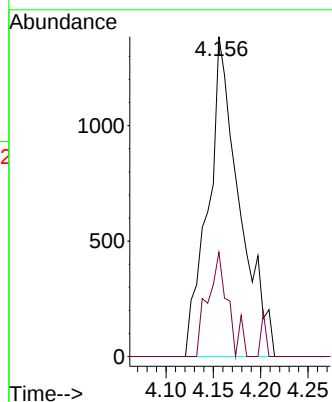
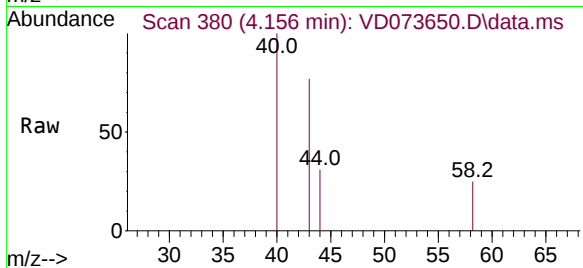




#16  
Acetone  
Concen: 6.580 ug/l  
RT: 4.156 min Scan# 3179  
Delta R.T. 0.000 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

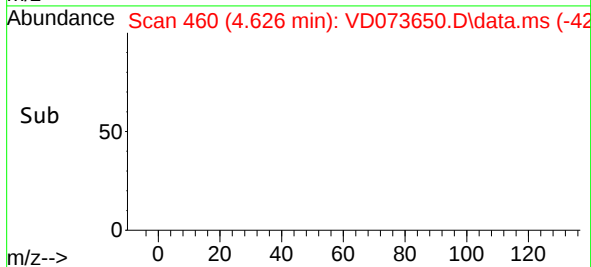
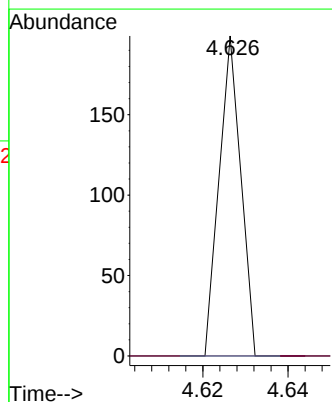
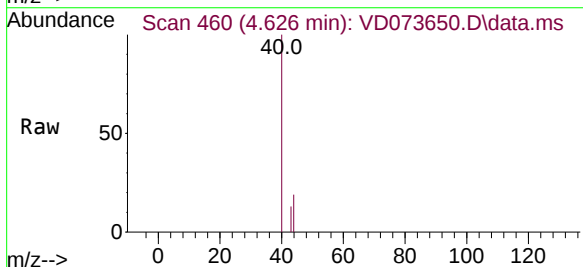
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

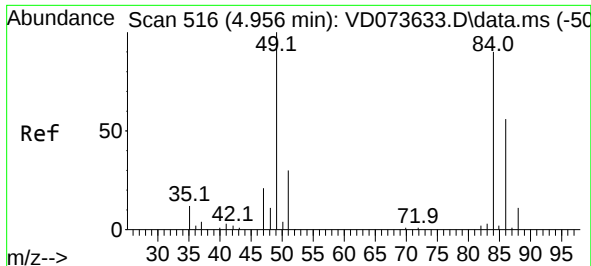
Tgt Ion: 43 Resp: 3179  
Ion Ratio Lower Upper  
43 100  
58 32.6 25.0 37.4



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.626 min Scan# 460  
Delta R.T. -0.083 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Tgt Ion: 43 Resp: 70  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.2 31.8#



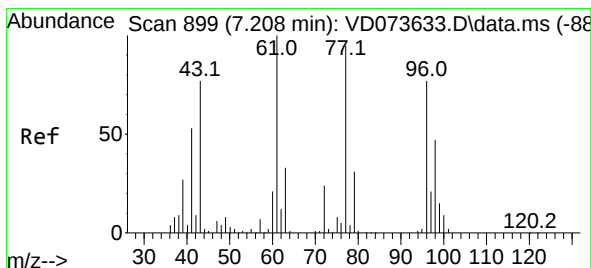
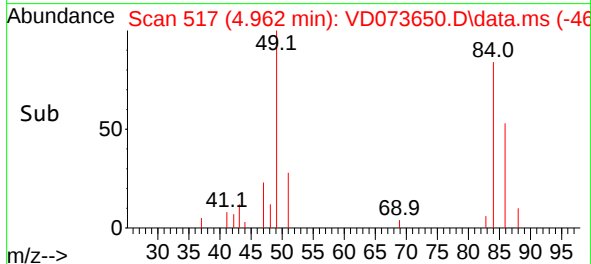
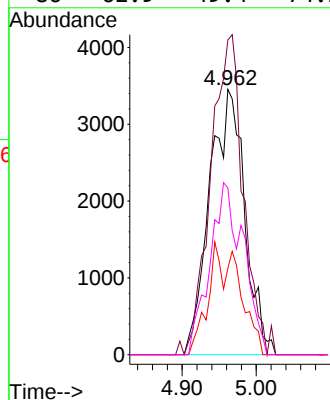
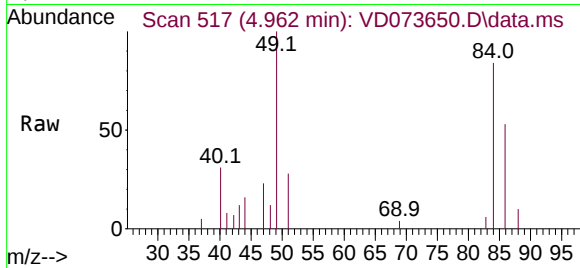


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 516  
Delta R.T. 0.006 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

Tgt Ion: 84 Resp: 11342

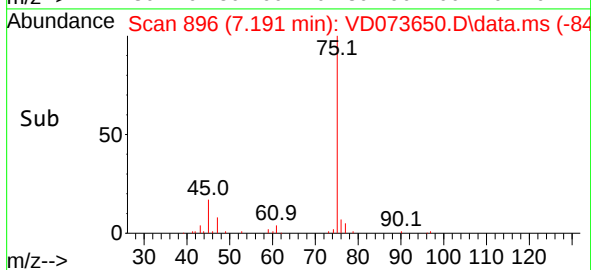
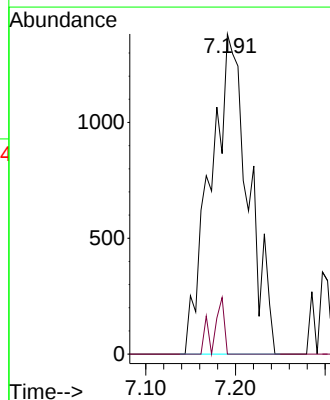
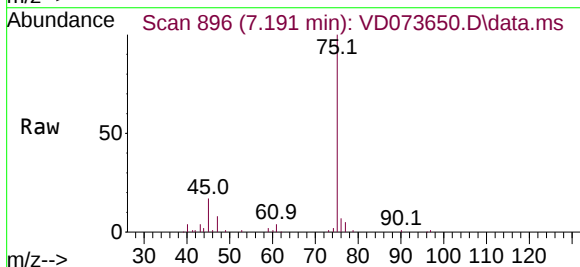
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 118.7 | 89.0  | 133.6 |
| 51  | 32.7  | 26.7  | 40.1  |
| 86  | 62.9  | 49.4  | 74.2  |

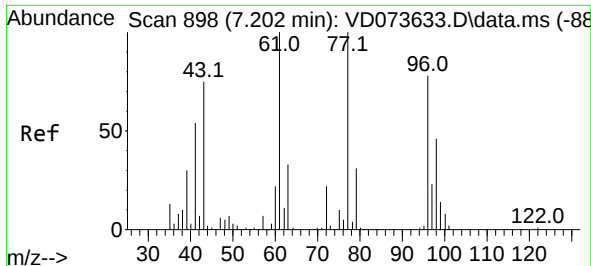


#25  
2-Butanone  
Concen: 5.749 ug/l  
RT: 7.191 min Scan# 896  
Delta R.T. -0.017 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Tgt Ion: 43 Resp: 4043

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 24.7  | 37.1# |

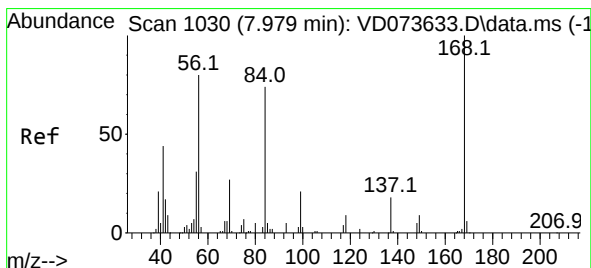
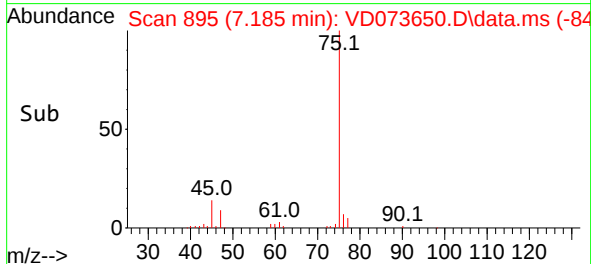
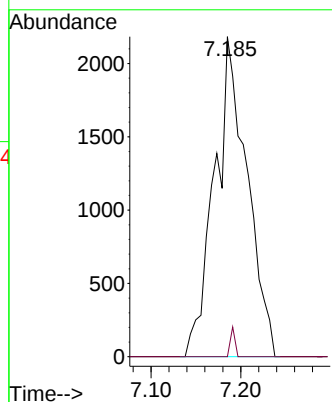
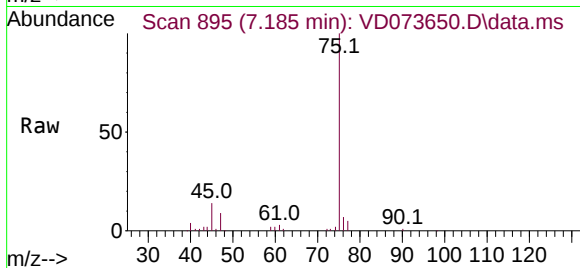




#26  
2,2-Dichloropropane  
Concen: 1.089 ug/l  
RT: 7.185 min Scan# 895  
Delta R.T. -0.017 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

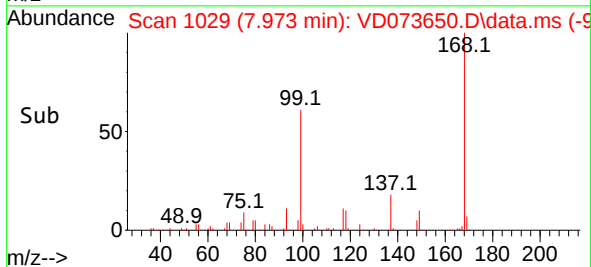
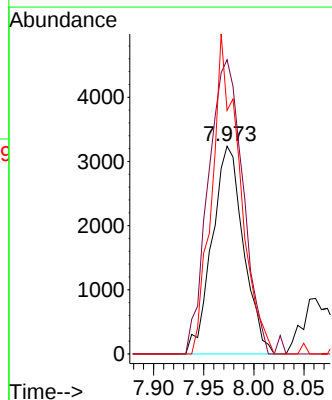
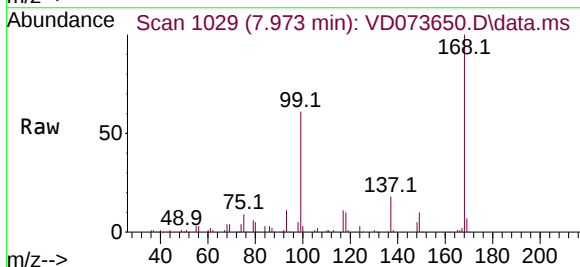
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

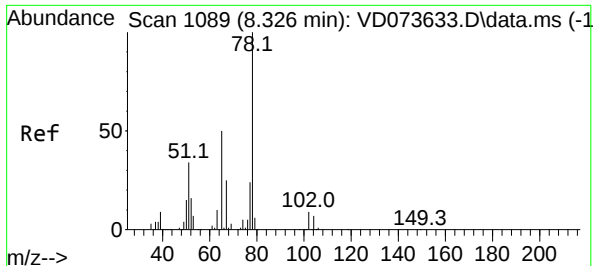
Tgt Ion: 77 Resp: 5505  
Ion Ratio Lower Upper  
77 100  
97 1.3 11.4 34.2#



#31  
Cyclohexane  
Concen: 1.523 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Tgt Ion: 56 Resp: 7040  
Ion Ratio Lower Upper  
56 100  
69 141.7 26.9 40.3#  
84 117.3 73.8 110.8#





#33

1,2-Dichloroethane-d4

Concen: 54.914 ug/l

RT: 8.320 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD073650.D

Acq: 22 Jun 2022 12:38

Instrument :

MSVOA\_D

ClientSampleId :

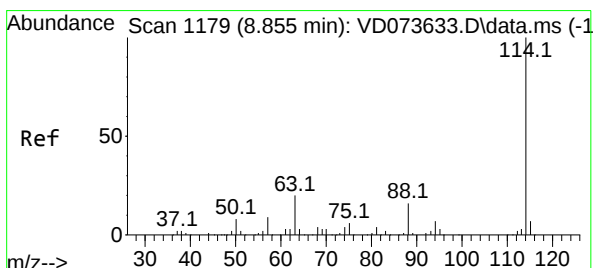
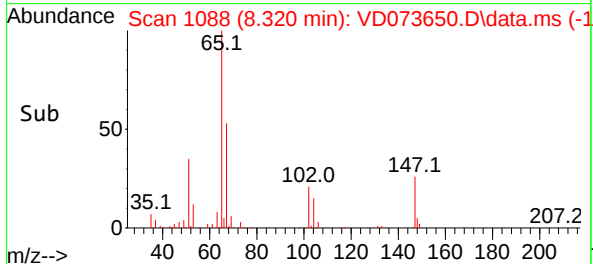
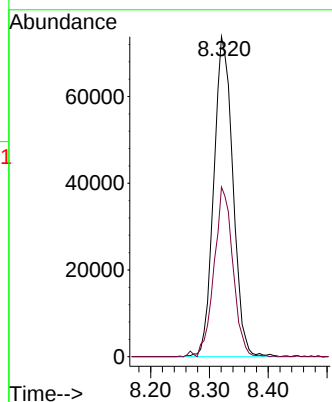
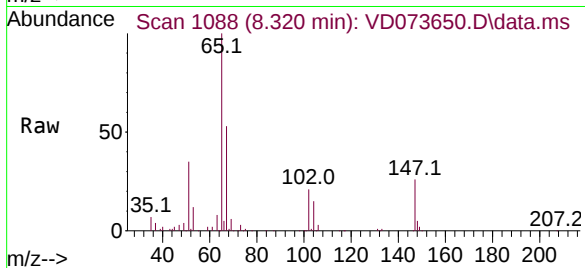
VD0622SBL01

Tgt Ion: 65 Resp: 166877

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VD073650.D

Acq: 22 Jun 2022 12:38

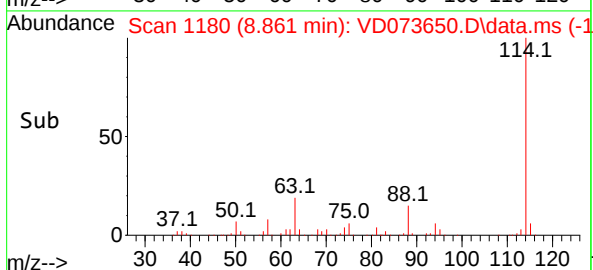
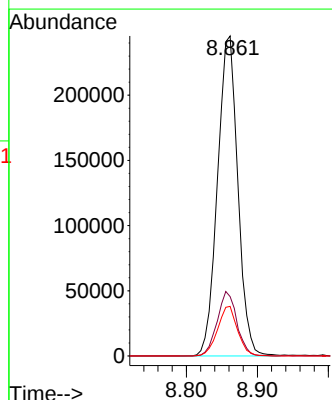
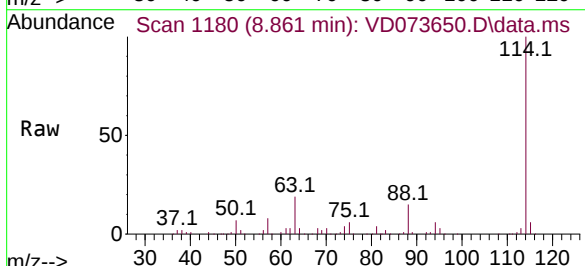
Tgt Ion: 114 Resp: 487028

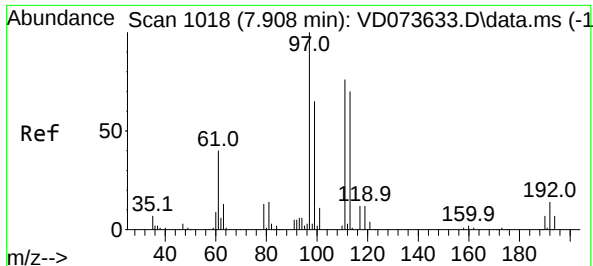
Ion Ratio Lower Upper

114 100

63 18.6 0.0 40.4

88 15.5 0.0 32.2





#35

Dibromofluoromethane

Concen: 46.344 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073650.D

Acq: 22 Jun 2022 12:38

Instrument :

MSVOA\_D

ClientSampleId :

VD0622SBL01

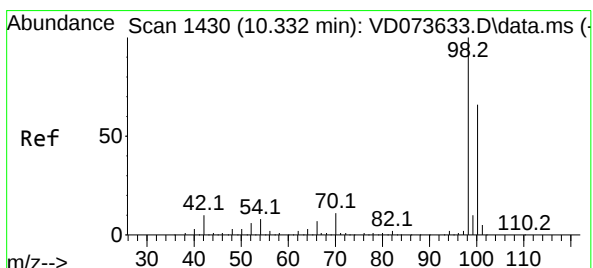
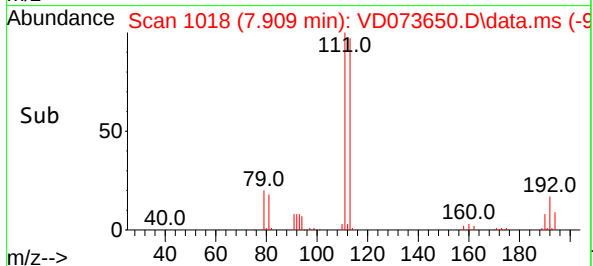
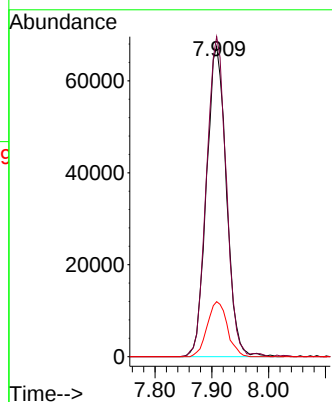
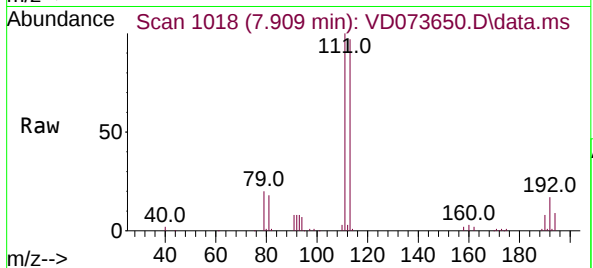
Tgt Ion:113 Resp: 163737

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

192 17.9 14.3 21.5



#50

Toluene-d8

Concen: 45.280 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VD073650.D

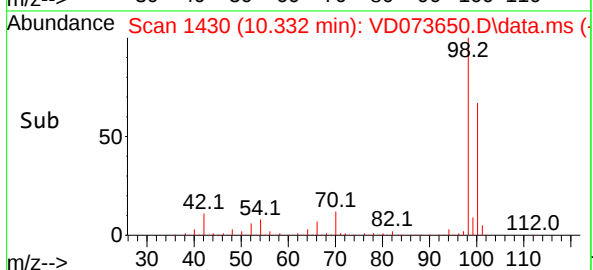
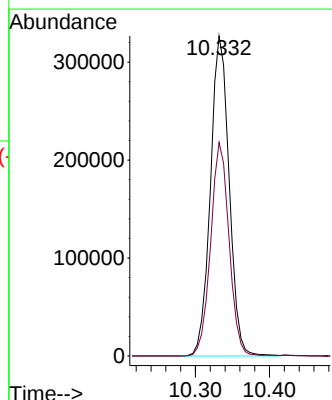
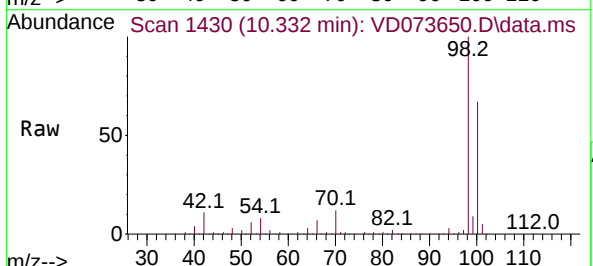
Acq: 22 Jun 2022 12:38

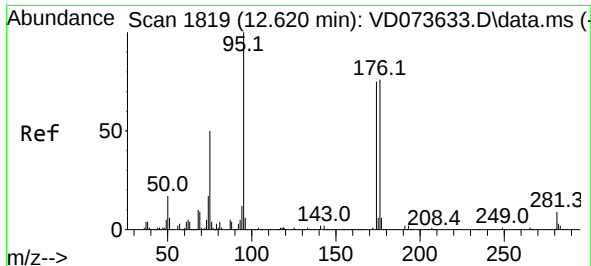
Tgt Ion: 98 Resp: 572602

Ion Ratio Lower Upper

98 100

100 65.6 51.4 77.2

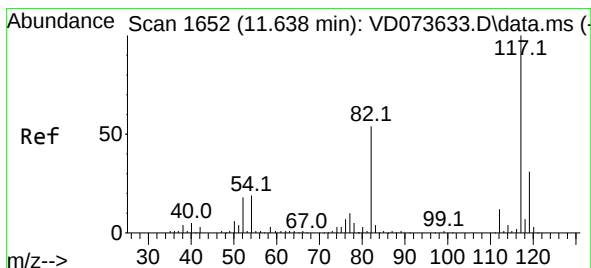
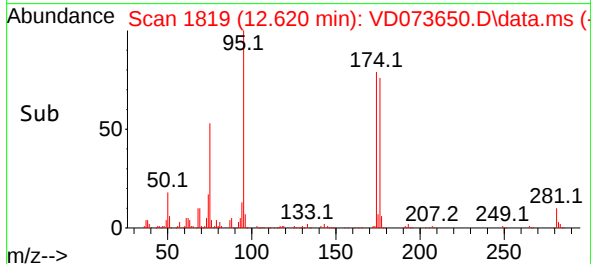
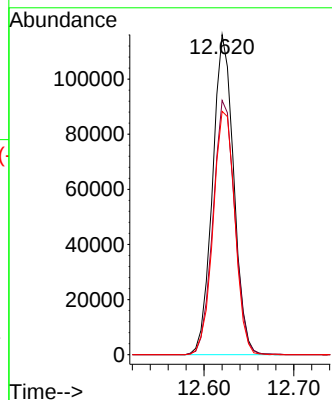
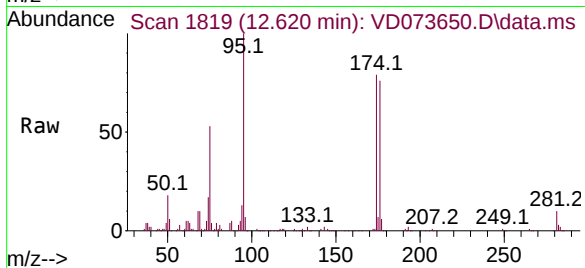




#62  
4-Bromofluorobenzene  
Concen: 41.111 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

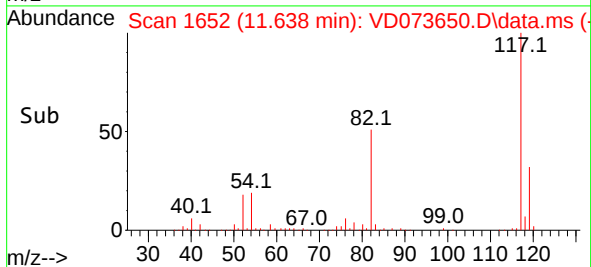
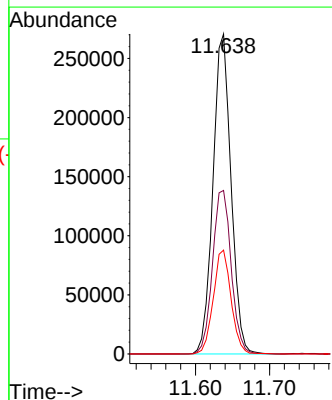
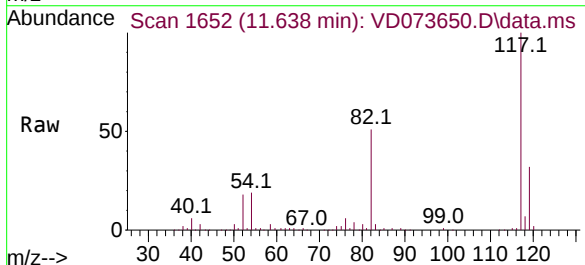
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

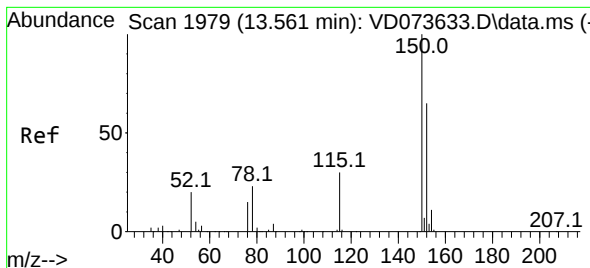
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 190654 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 81.4  | 0.0   | 156.4  |
| 176       | 78.0  | 0.0   | 151.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 457256 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 51.1  | 43.0  | 64.4   |
| 119       | 32.4  | 24.5  | 36.7   |

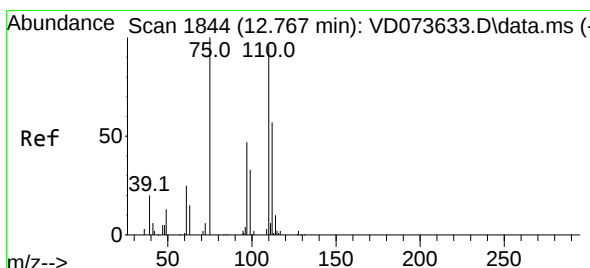
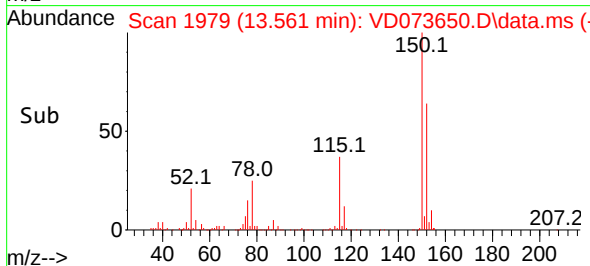
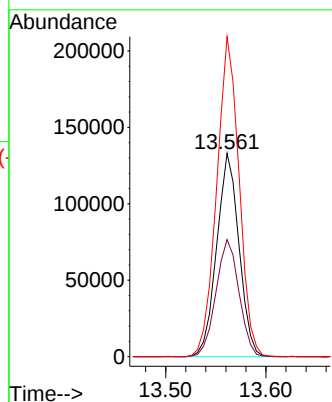
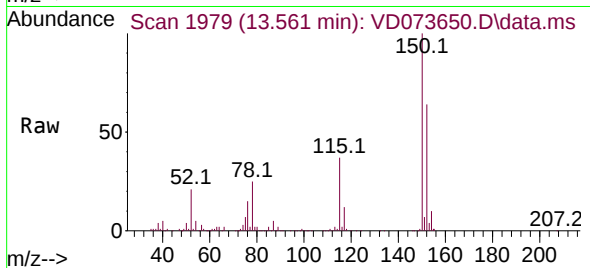




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VD073650.D  
 Acq: 22 Jun 2022 12:38

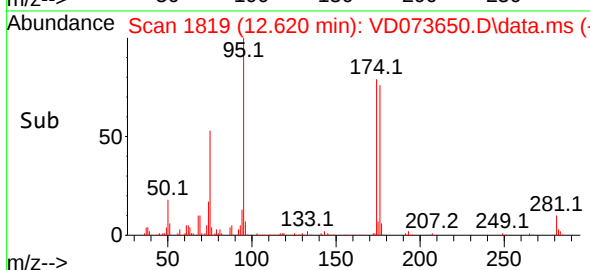
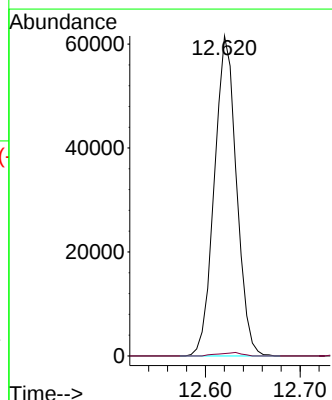
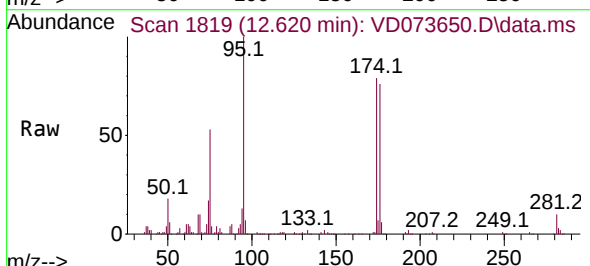
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0622SBL01

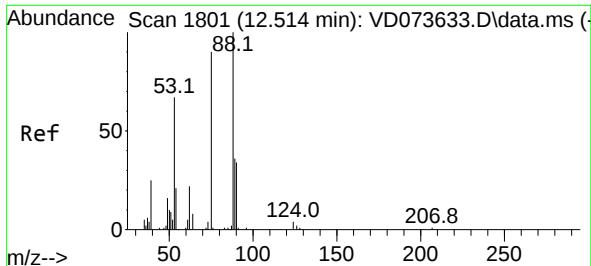
Tgt Ion:152 Resp: 205088  
 Ion Ratio Lower Upper  
 152 100  
 115 59.7 29.6 88.9  
 150 158.2 0.0 351.2



#76  
 1,2,3-Trichloropropane  
 Concen: 50.361 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.147 min  
 Lab File: VD073650.D  
 Acq: 22 Jun 2022 12:38

Tgt Ion: 75 Resp: 99963  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 208.9 626.7#

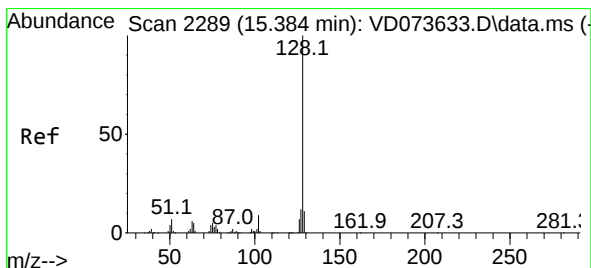
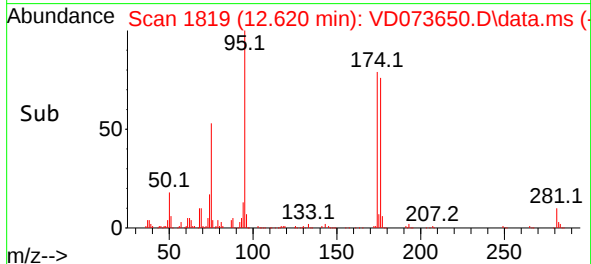
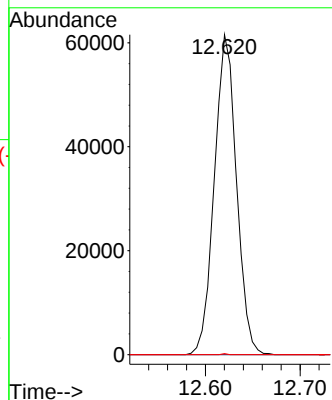
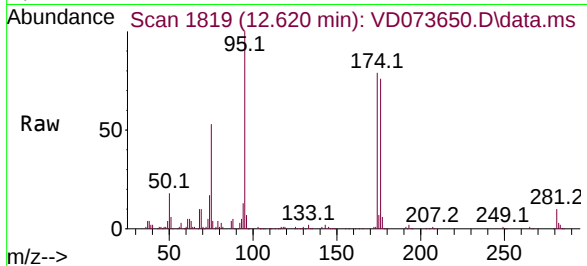




#81  
trans-1,4-Dichloro-2-butene  
Concen: 116.223 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0622SBL01

Tgt Ion: 75 Resp: 99963  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.5 105.7#  
89 0.1 35.8 53.8#



#95  
Naphthalene  
Concen: 2.844 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. 0.001 min  
Lab File: VD073650.D  
Acq: 22 Jun 2022 12:38

Tgt Ion: 128 Resp: 1203  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 4.7 9.0 13.6#

