

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091922\  
 Data File : VD074353.D  
 Acq On : 19 Sep 2022 18:29  
 Operator : VA/SY  
 Sample : N4656-01  
 Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SP-1

Quant Time: Sep 19 23:02:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D091622S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 17 04:16:54 2022  
 Response via : Initial Calibration

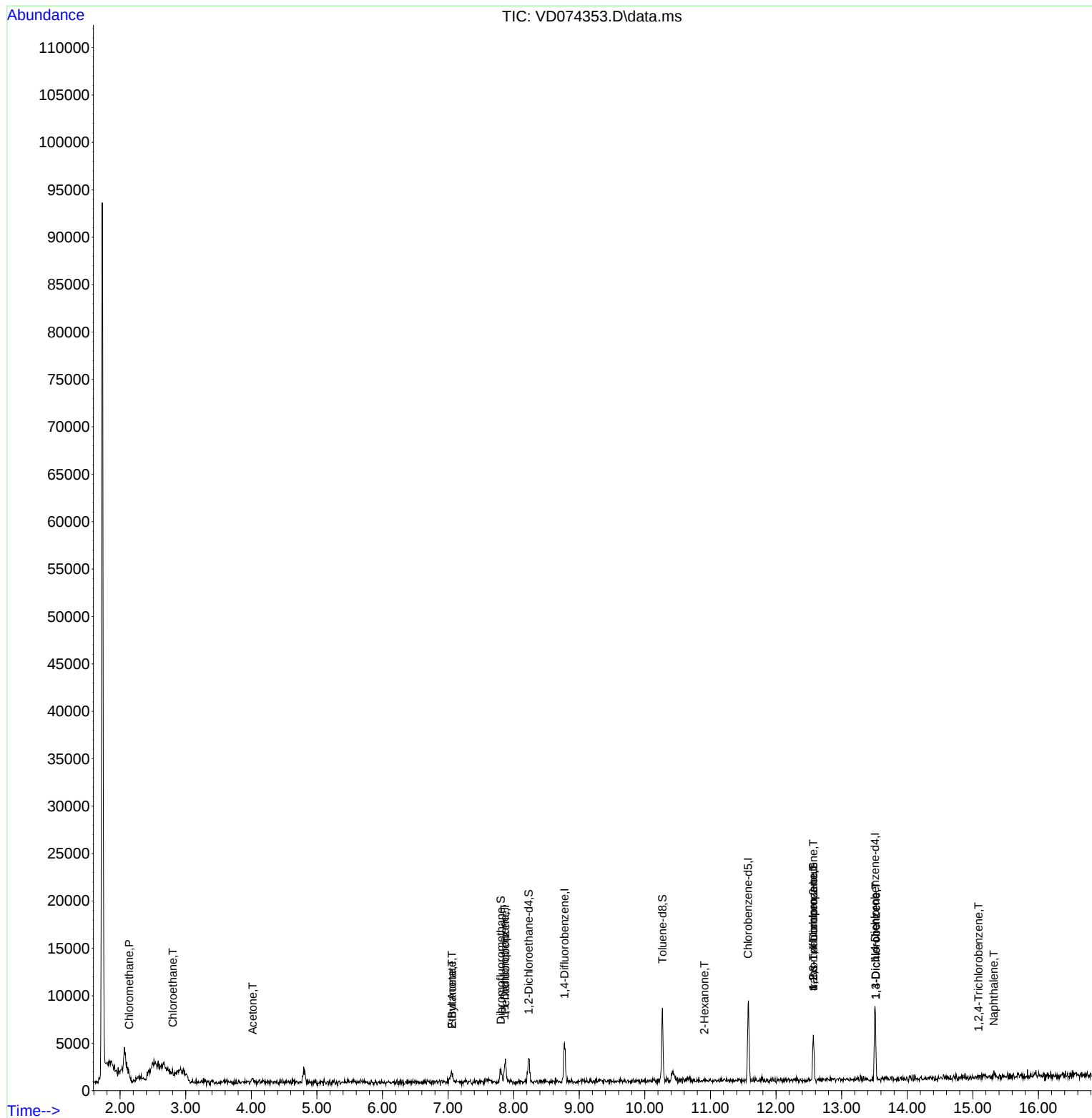
| Compound                      | R.T. QIon |       | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-------------|----------|
| -----                         |           |       |          |           |             |          |
| Internal Standards            |           |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.875     | 168   | 2658     | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775     | 114   | 4874     | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.575    | 117   | 5415     | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.510    | 152   | 2836     | 50.000    | ug/l        | 0.00     |
|                               |           |       |          |           |             |          |
| System Monitoring Compounds   |           |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.228     | 65    | 2259     | 87.256    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 174.520%# |          |
| 35) Dibromofluoromethane      | 7.804     | 113   | 1383     | 43.083    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 86.160%   |          |
| 50) Toluene-d8                | 10.269    | 98    | 5287     | 47.733    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 95.460%   |          |
| 62) 4-Bromofluorobenzene      | 12.569    | 95    | 1928     | 51.538    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 103.080%  |          |
|                               |           |       |          |           |             |          |
| Target Compounds              |           |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 2.140     | 50    | 378      | 16.233    | ug/l #      | 42       |
| 6) Chloroethane               | 2.805     | 64    | 179      | 13.332    | ug/l #      | 44       |
| 16) Acetone                   | 4.022     | 43    | 568      | 97.383    | ug/l #      | 42       |
| 20) Methylene Chloride        | 4.811     | 84    | 196      | Below Cal | #           | 32       |
| 25) 2-Butanone                | 7.057     | 43    | 139      | 16.000    | ug/l #      | 48       |
| 36) 1,1-Dichloropropene       | 7.863     | 75    | 65       | 1.327     | ug/l #      | 42       |
| 37) Ethyl Acetate             | 7.057     | 43    | 139      | 7.081     | ug/l #      | 67       |
| 59) 2-Hexanone                | 10.910    | 43    | 74       | 5.560     | ug/l #      | 22       |
| 76) 1,2,3-Trichloropropane    | 12.569    | 75    | 1064     | 40.550    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.569    | 75    | 1064     | 101.628   | ug/l #      | 100      |
| 87) 1,3-Dichlorobenzene       | 13.522    | 146   | 131      | 1.337     | ug/l #      | 26       |
| 88) 1,4-Dichlorobenzene       | 13.522    | 146   | 131      | 1.368     | ug/l #      | 25       |
| 93) 1,2,4-Trichlorobenzene    | 15.086    | 180   | 139      | 2.494     | ug/l #      | 12       |
| 95) Naphthalene               | 15.322    | 128   | 569      | 5.509     | ug/l #      | 68       |
| -----                         |           |       |          |           |             |          |

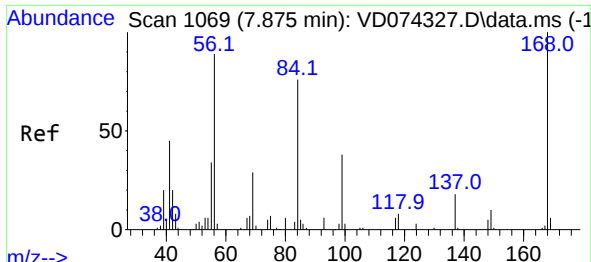
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091922\  
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Sample : N4656-01  
Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

Quant Time: Sep 19 23:02:38 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D091622S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 17 04:16:54 2022  
Response via : Initial Calibration

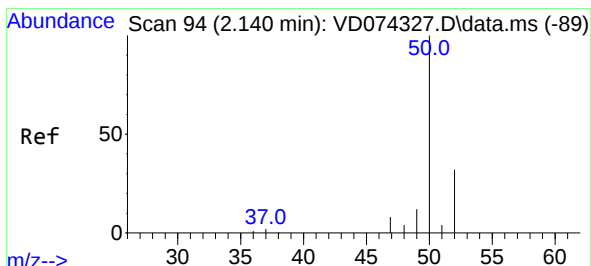
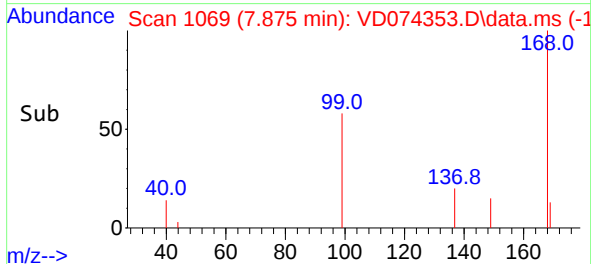
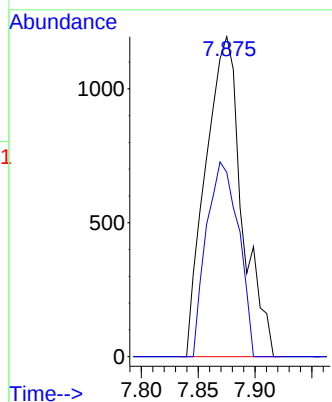
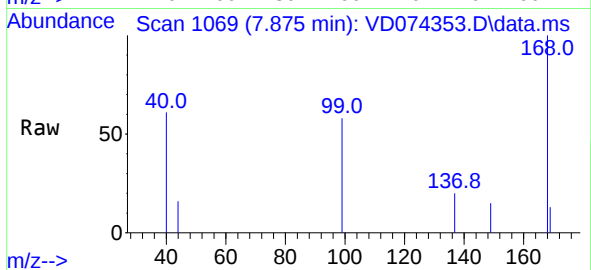




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

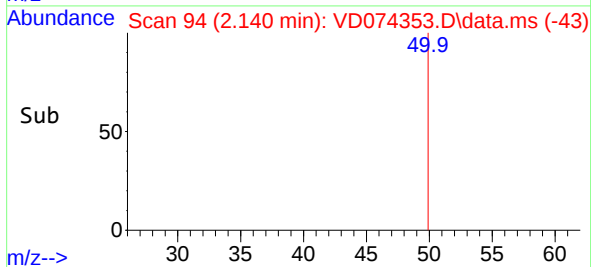
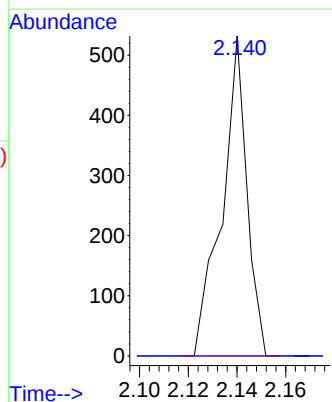
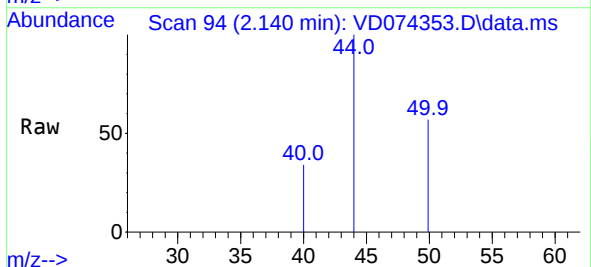
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

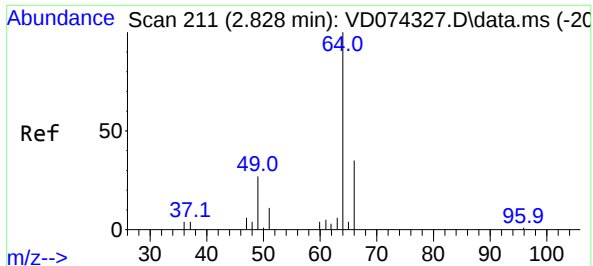
Tgt Ion:168 Resp: 2658  
Ion Ratio Lower Upper  
168 100  
99 57.6 43.0 64.6



#3  
Chloromethane  
Concen: 16.233 ug/l  
RT: 2.140 min Scan# 94  
Delta R.T. 0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Tgt Ion: 50 Resp: 378  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.8 38.8#

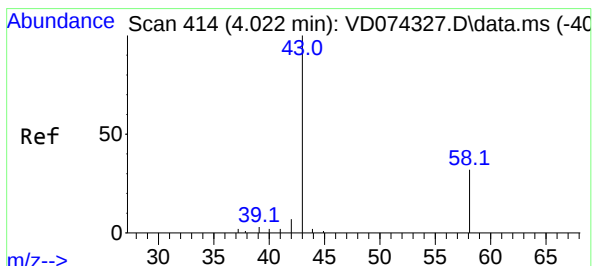
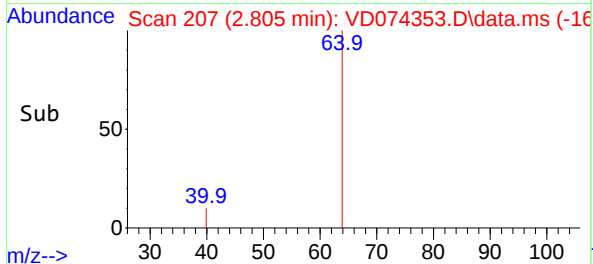
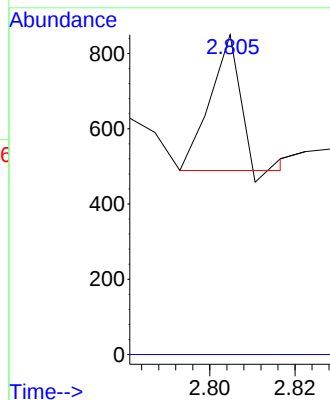
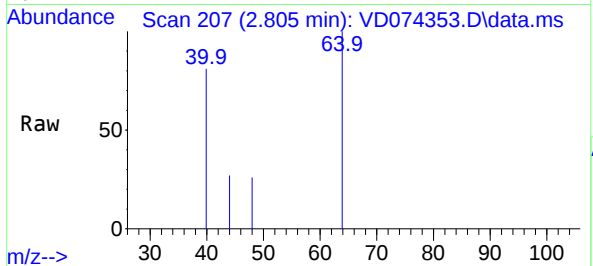




#6  
Chloroethane  
Concen: 13.332 ug/l  
RT: 2.805 min Scan# 207  
Delta R.T. -0.023 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

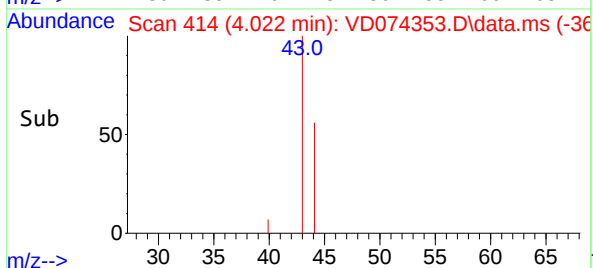
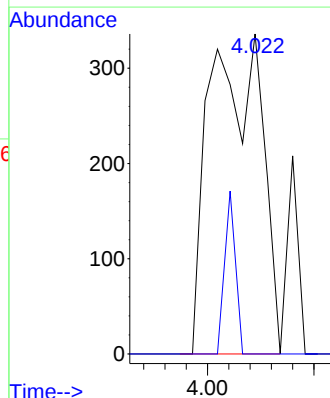
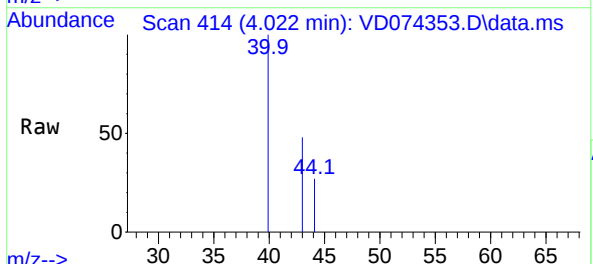
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

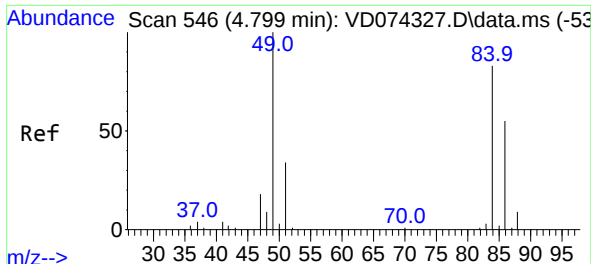
Tgt Ion: 64 Resp: 179  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.6 36.8#



#16  
Acetone  
Concen: 97.383 ug/l  
RT: 4.022 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Tgt Ion: 43 Resp: 568  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.4 39.6#



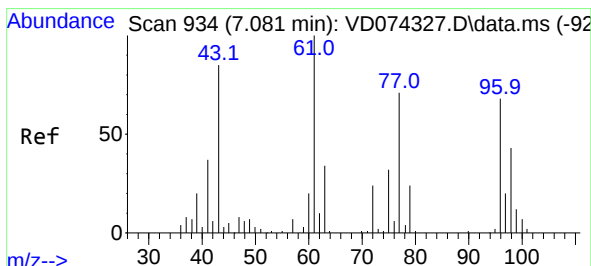
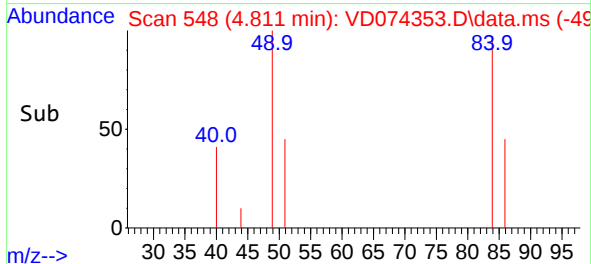
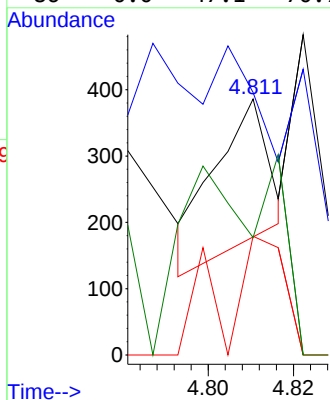
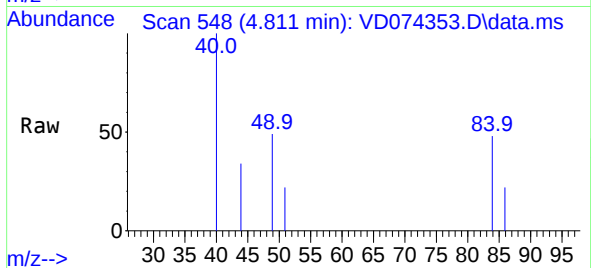


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.811 min Scan# 54  
Delta R.T. 0.012 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

Tgt Ion: 84 Resp: 196

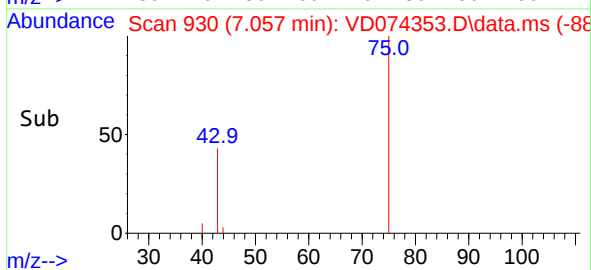
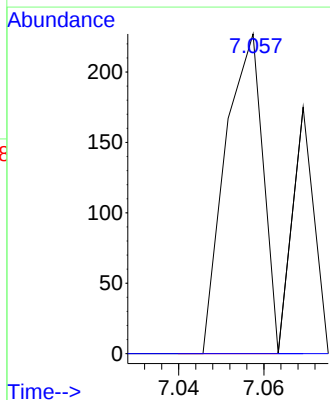
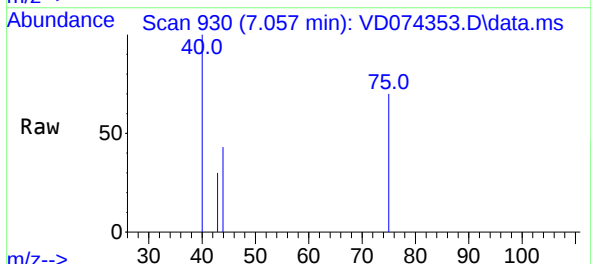
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 55.9  | 88.4  | 132.6# |
| 51  | 95.2  | 28.0  | 42.0#  |
| 86  | 0.0   | 47.1  | 70.7#  |

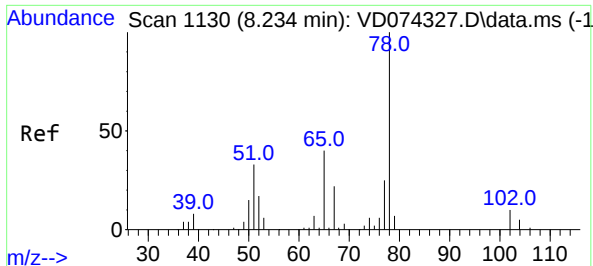


#25  
2-Butanone  
Concen: 16.000 ug/l  
RT: 7.057 min Scan# 930  
Delta R.T. -0.024 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Tgt Ion: 43 Resp: 139

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 21.8  | 32.6# |





#33

1,2-Dichloroethane-d4

Concen: 87.256 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

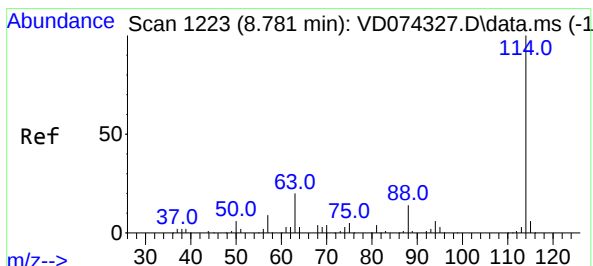
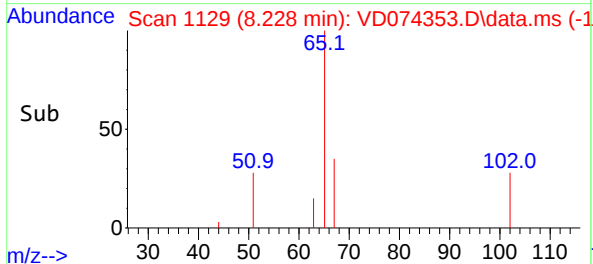
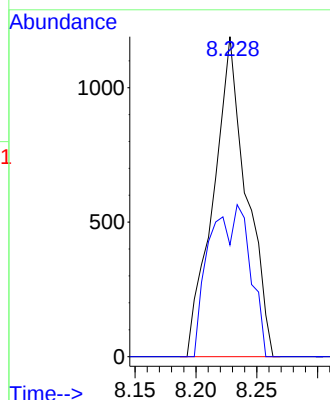
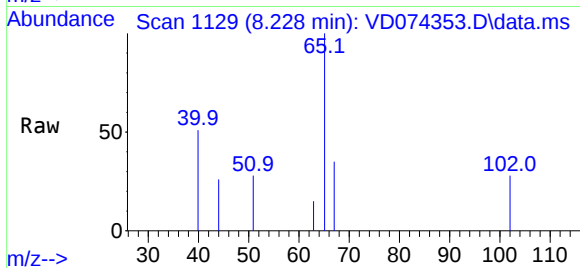
SP-1

Tgt Ion: 65 Resp: 2259

Ion Ratio Lower Upper

65 100

67 33.4 0.0 110.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

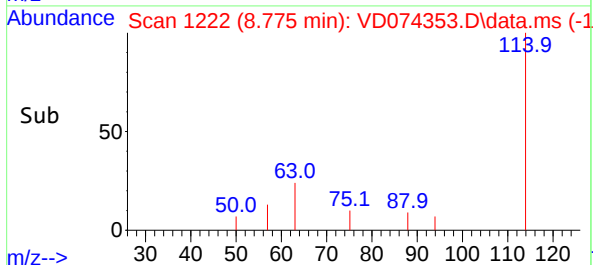
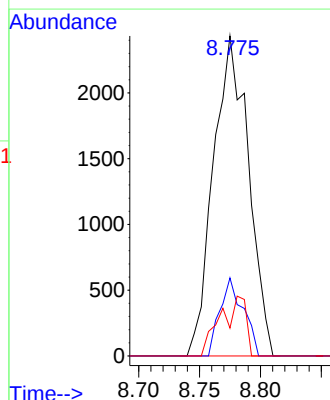
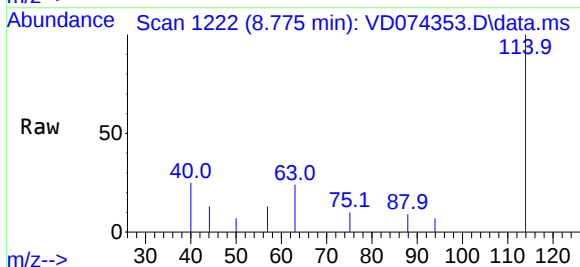
Tgt Ion: 114 Resp: 4874

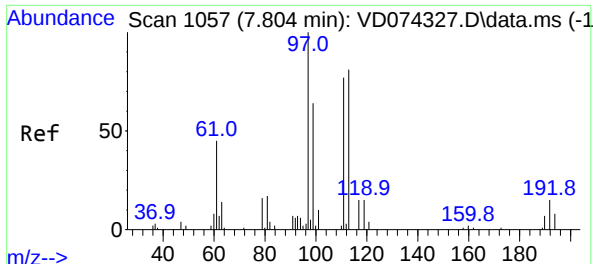
Ion Ratio Lower Upper

114 100

63 24.4 0.0 37.6

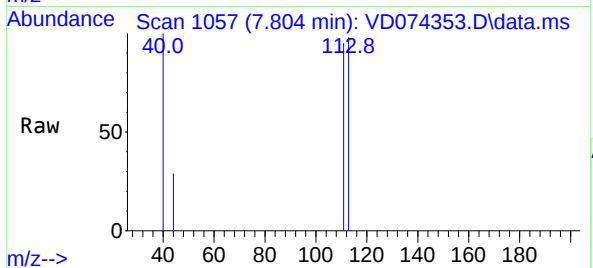
88 8.7 0.0 28.4



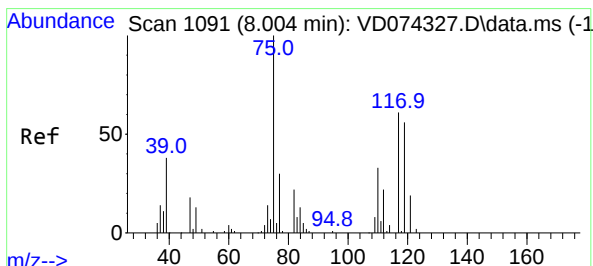
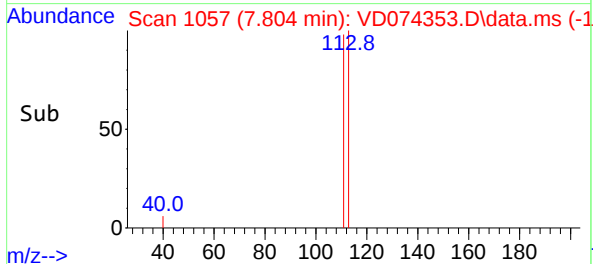
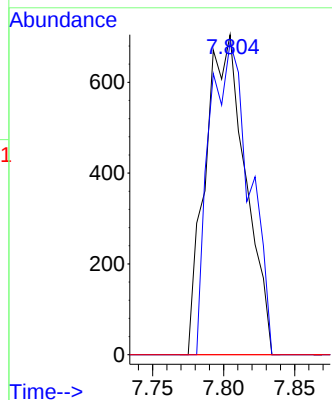


#35  
Dibromofluoromethane  
Concen: 43.083 ug/l  
RT: 7.804 min Scan# 1067  
Delta R.T. 0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

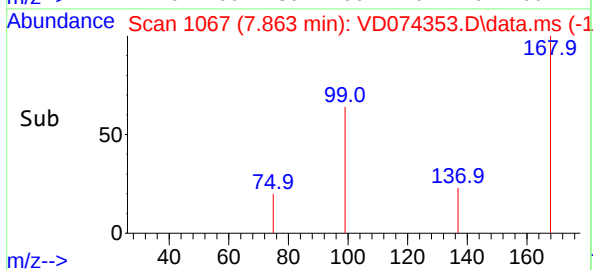
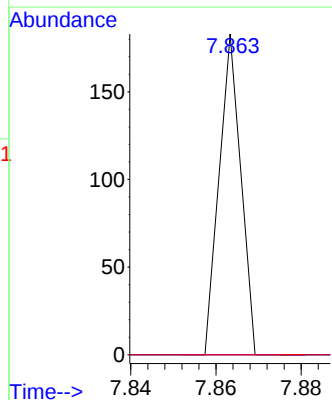
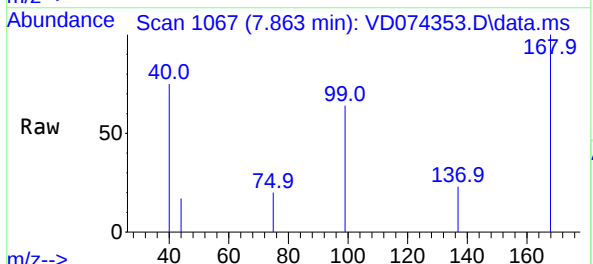


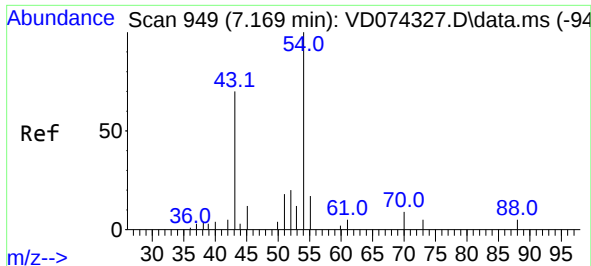
Tgt Ion:113 Resp: 1383  
Ion Ratio Lower Upper  
113 100  
111 98.3 83.0 124.6  
192 0.0 16.2 24.2#



#36  
1,1-Dichloropropene  
Concen: 1.327 ug/l  
RT: 7.863 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Tgt Ion: 75 Resp: 65  
Ion Ratio Lower Upper  
75 100  
110 0.0 17.5 52.5#  
77 0.0 24.8 37.2#

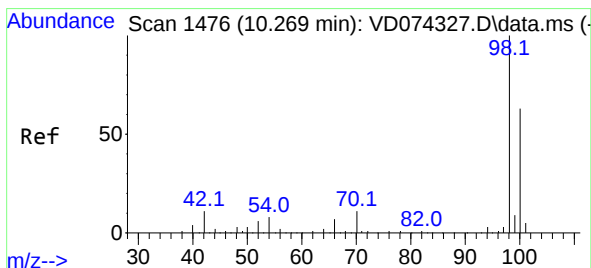
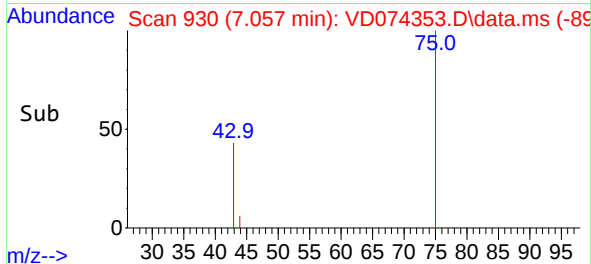
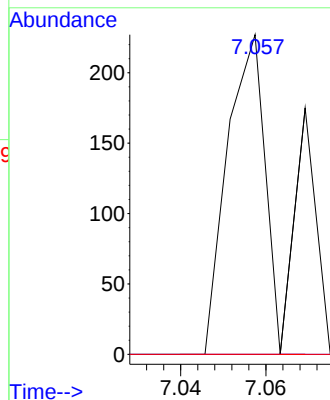
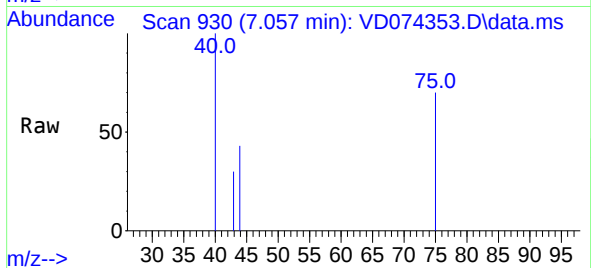




#37  
Ethyl Acetate  
Concen: 7.081 ug/l  
RT: 7.057 min Scan# 91  
Delta R.T. -0.112 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

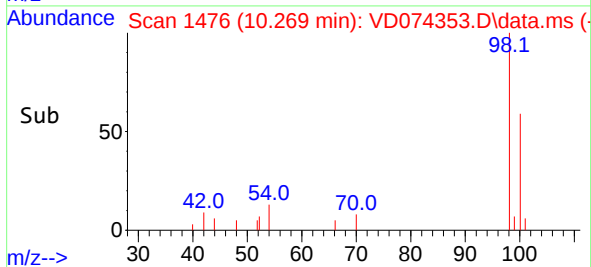
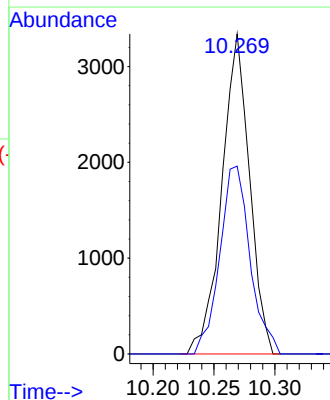
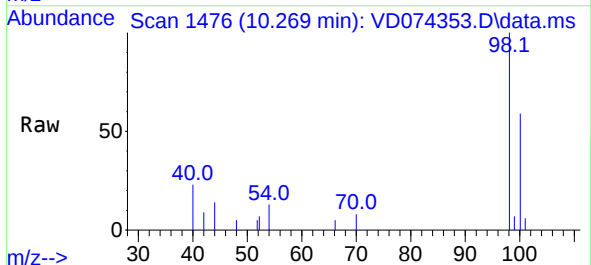
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

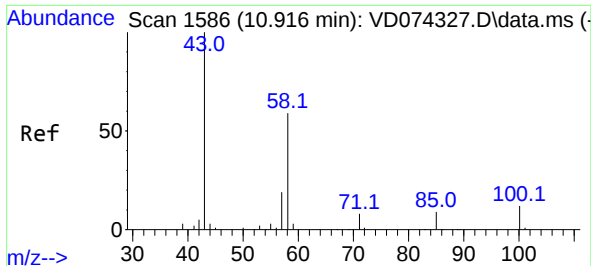
Tgt Ion: 43 Resp: 139  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.1 18.1#  
70 0.0 8.5 12.7#



#50  
Toluene-d8  
Concen: 47.733 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Tgt Ion: 98 Resp: 5287  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.8 77.8





#59

2-Hexanone

Concen: 5.560 ug/l

RT: 10.910 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

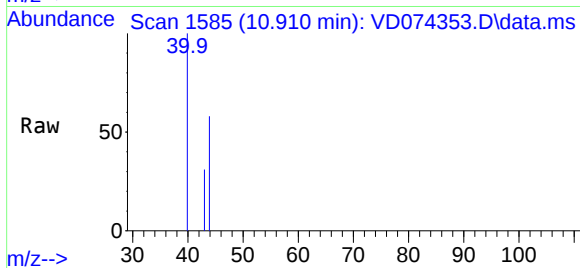
SP-1

Tgt Ion: 43 Resp: 74

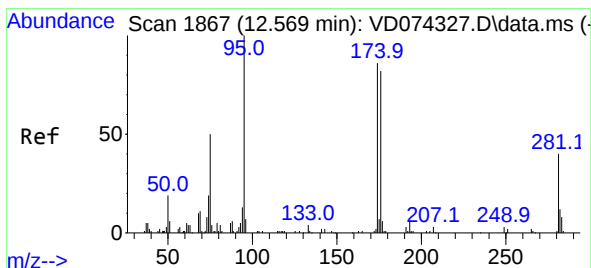
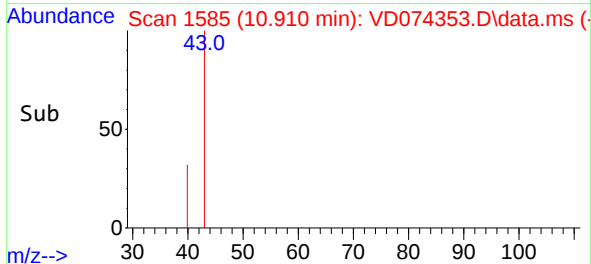
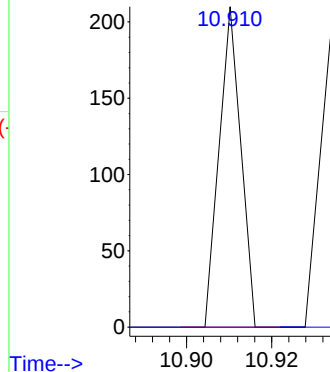
Ion Ratio Lower Upper

43 100

58 0.0 28.6 85.8#



Abundance



#62

4-Bromofluorobenzene

Concen: 51.538 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

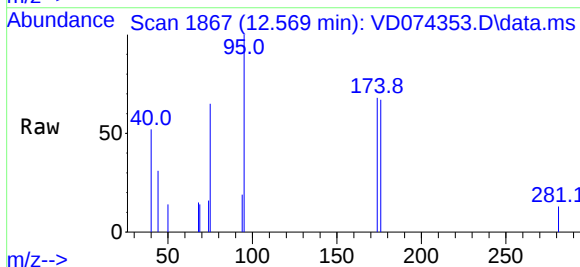
Tgt Ion: 95 Resp: 1928

Ion Ratio Lower Upper

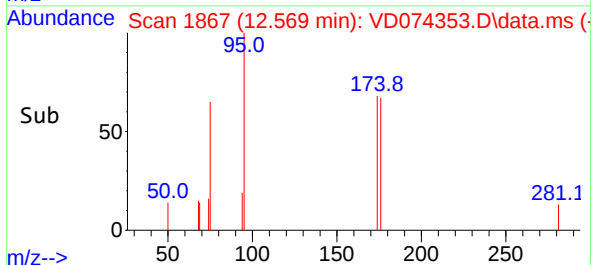
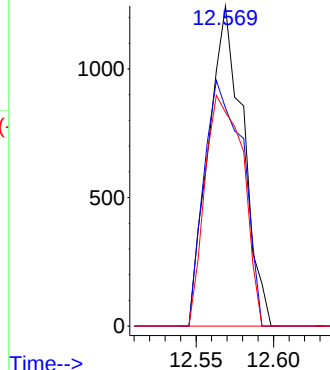
95 100

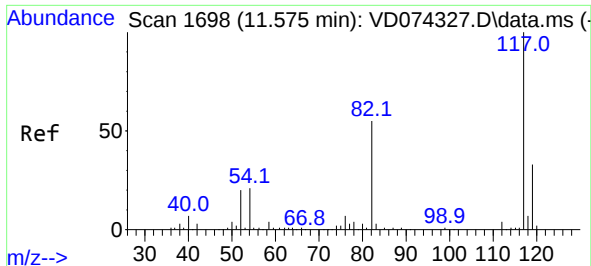
174 85.8 0.0 179.2

176 79.7 0.0 171.4



Abundance

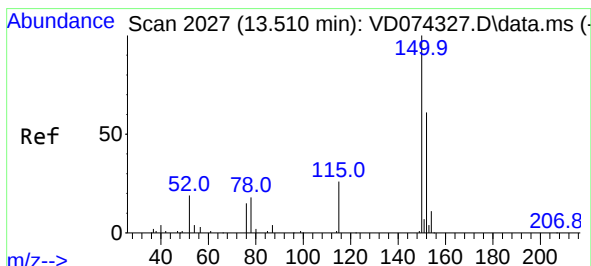
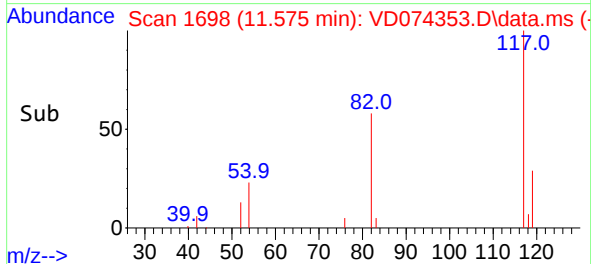
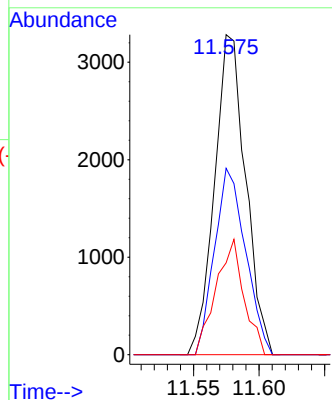
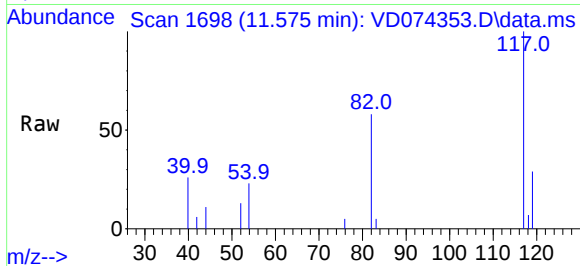




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.575 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

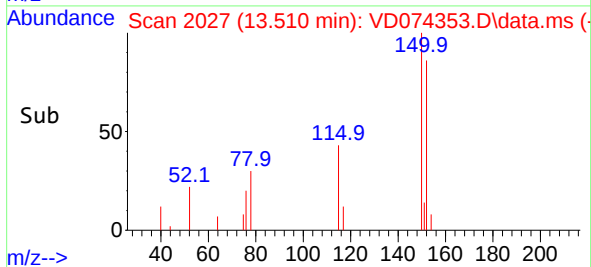
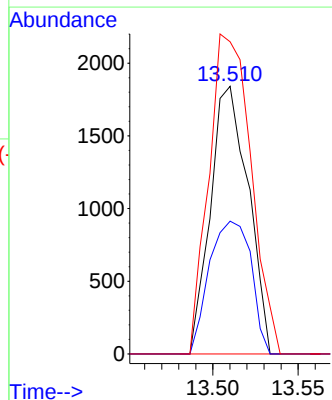
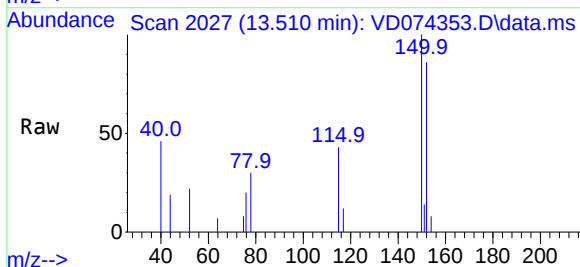
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

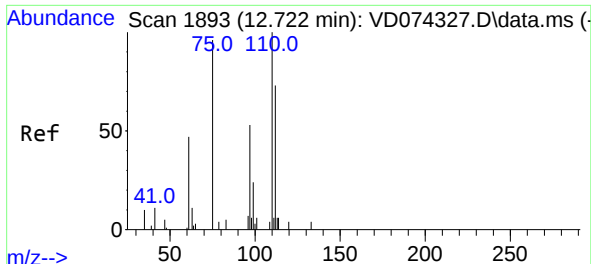
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 5415  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 58.3  | 44.2  | 66.2  |
| 119      | 28.7  | 25.4  | 38.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.510 min Scan# 2027  
Delta R.T. 0.000 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 2836  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 54.8  | 28.4  | 85.2  |
| 150      | 133.4 | 0.0   | 351.0 |

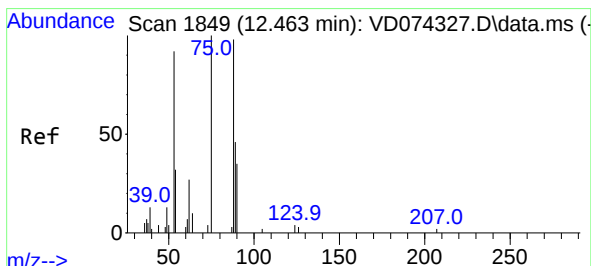
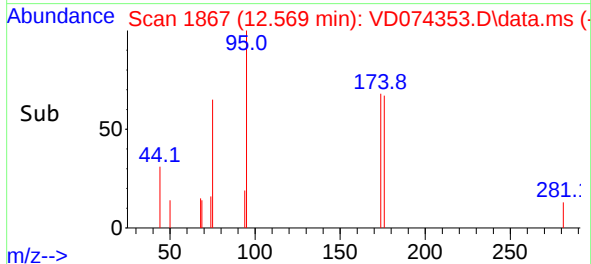
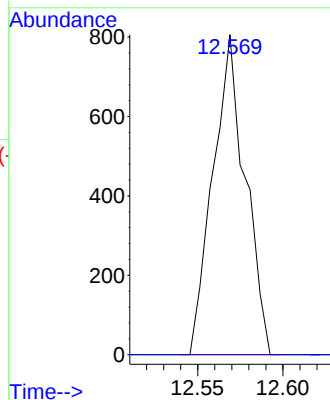
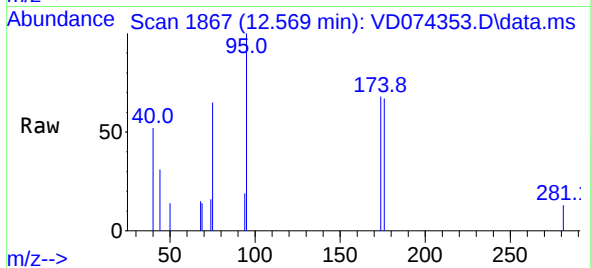




#76  
1,2,3-Trichloropropane  
Concen: 40.550 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.153 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

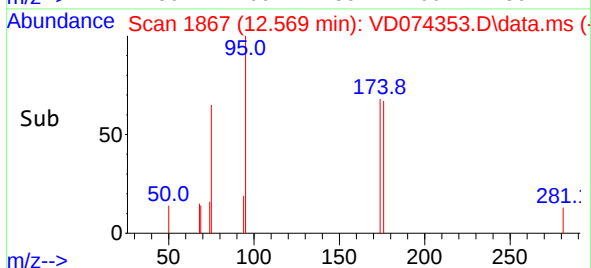
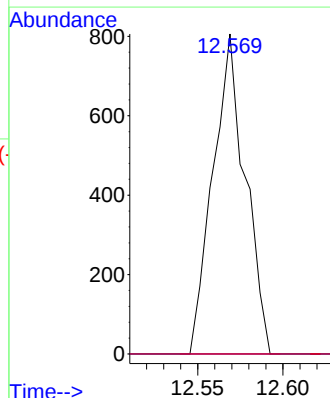
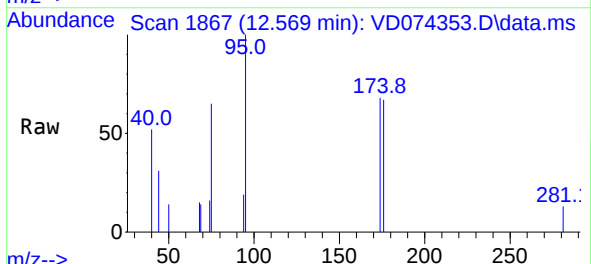
Instrument :  
MSVOA\_D  
ClientSampleId :  
SP-1

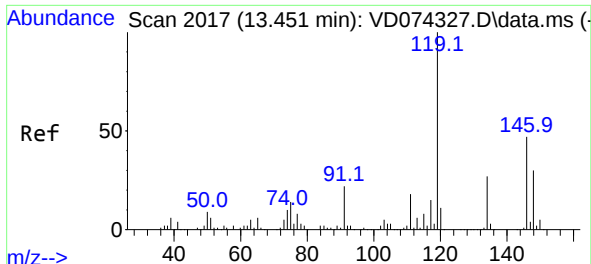
Tgt Ion: 75 Resp: 1064  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 101.628 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.106 min  
Lab File: VD074353.D  
Acq: 19 Sep 2022 18:29

Tgt Ion: 75 Resp: 1064  
Ion Ratio Lower Upper  
75 100  
53 0.0 0.0 0.0  
89 0.0 0.0 0.0





#87

1,3-Dichlorobenzene

Concen: 1.337 ug/l

RT: 13.522 min Scan# 20

Delta R.T. 0.071 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

SP-1

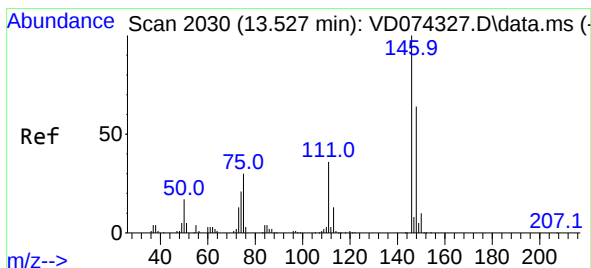
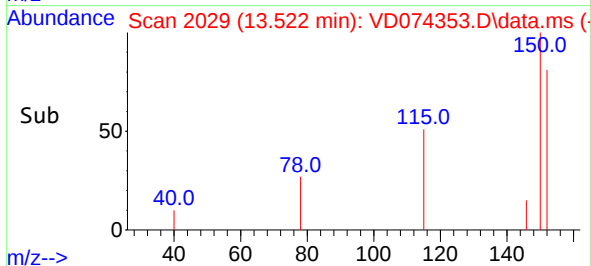
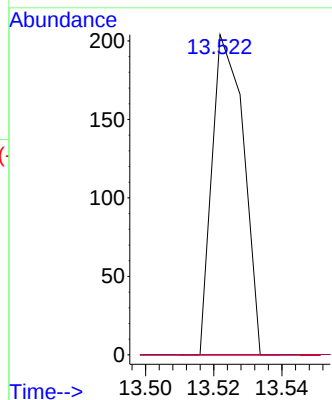
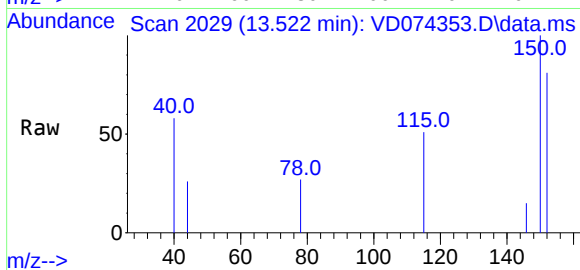
Tgt Ion:146 Resp: 131

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.4#

148 0.0 31.7 95.1#



#88

1,4-Dichlorobenzene

Concen: 1.368 ug/l

RT: 13.522 min Scan# 2029

Delta R.T. -0.005 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

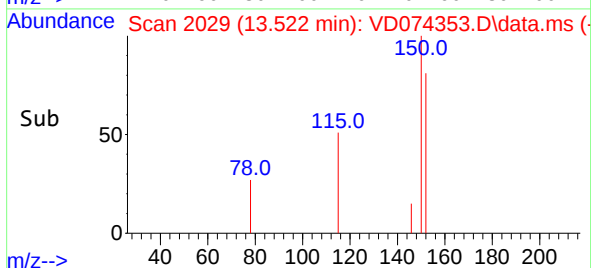
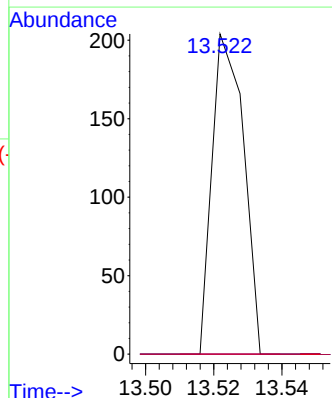
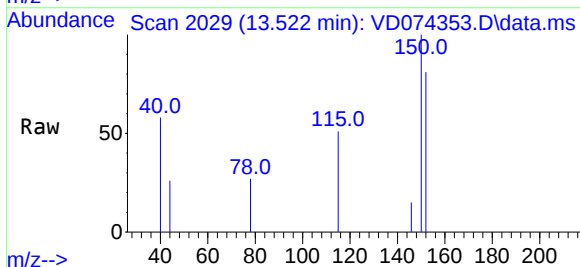
Tgt Ion:146 Resp: 131

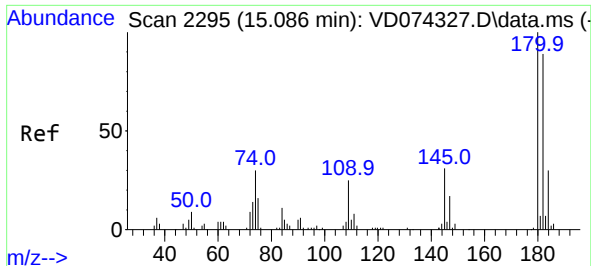
Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.2#

148 0.0 32.1 96.5#





#93

1,2,4-Trichlorobenzene

Concen: 2.494 ug/l

RT: 15.086 min Scan# 2295

Delta R.T. 0.000 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

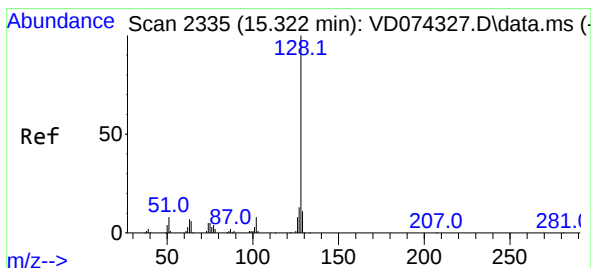
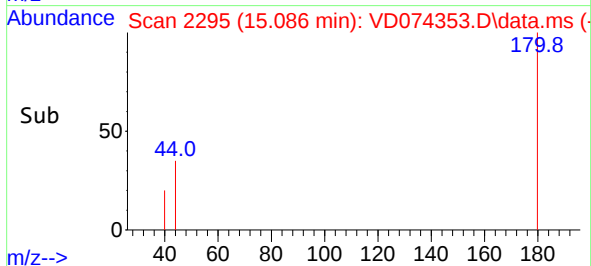
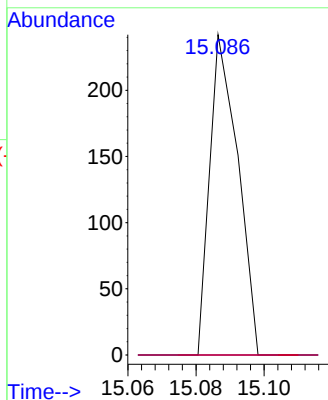
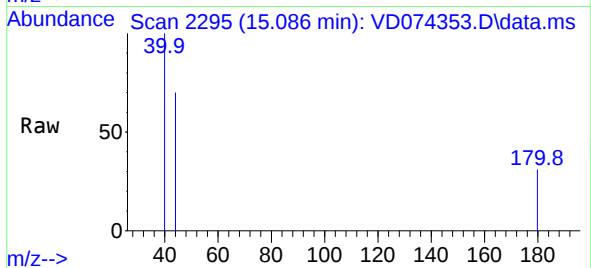
Instrument :

MSVOA\_D

ClientSampleId :

SP-1

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 139         |
| Ion Ratio   | Lower | Upper       |
| 180         | 100   |             |
| 182         | 0.0   | 47.6 142.9# |
| 145         | 0.0   | 14.4 43.4#  |



#95

Naphthalene

Concen: 5.509 ug/l

RT: 15.322 min Scan# 2335

Delta R.T. -0.000 min

Lab File: VD074353.D

Acq: 19 Sep 2022 18:29

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 569        |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 0.0   | 10.9 16.3# |
| 129         | 0.0   | 8.8 13.2#  |

