

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061022\  
 Data File : VD073526.D  
 Acq On : 10 Jun 2022 14:07  
 Operator : VA/SY  
 Sample : N3234-01  
 Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RB-21499

Quant Time: Jun 10 23:05:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 12:33:32 2022  
 Response via : Initial Calibration

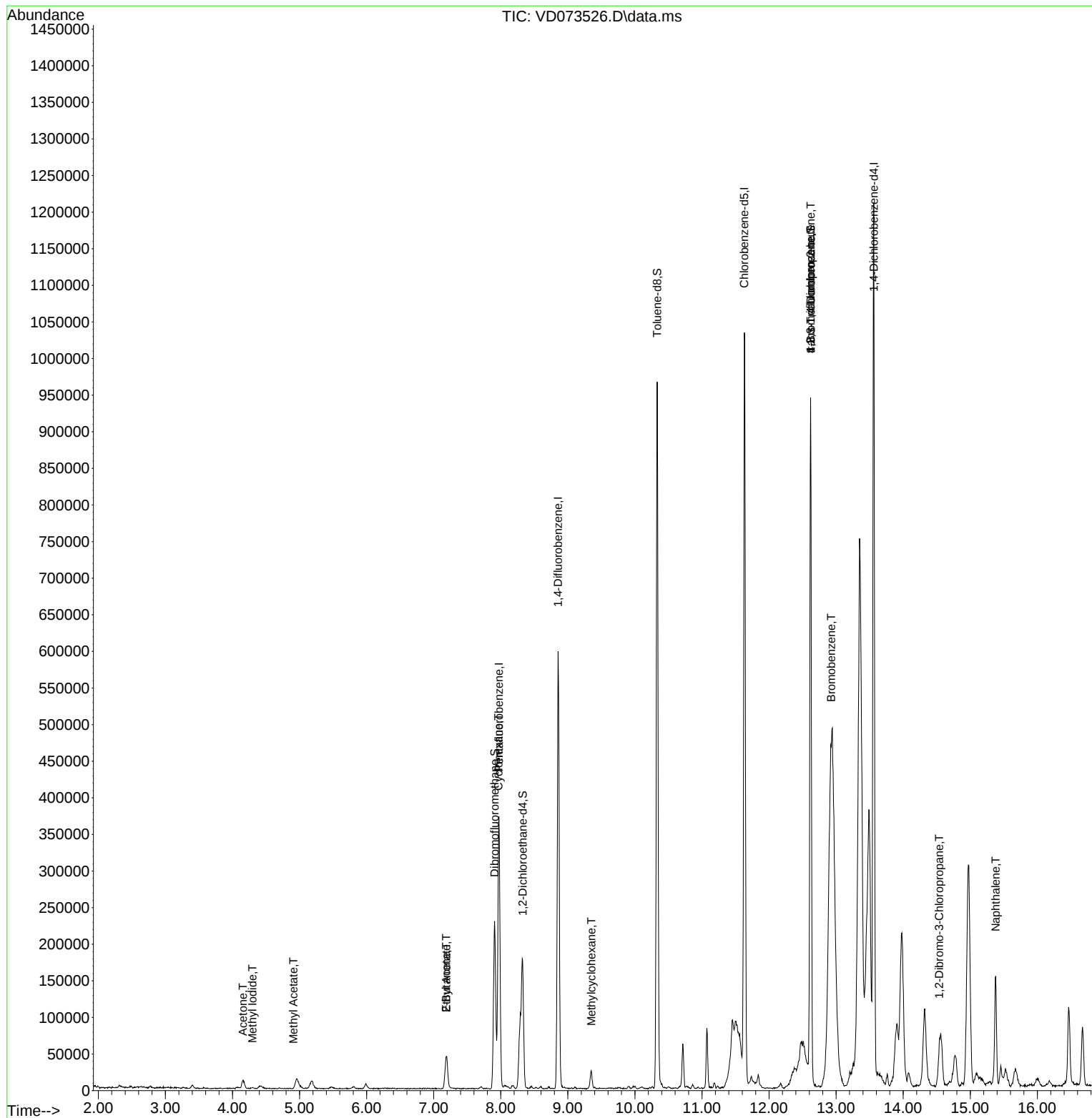
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 271688   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855  | 114   | 520116   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 614572   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 333988   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 134909   | 46.272    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 92.540%  |
| 35) Dibromofluoromethane      | 7.908  | 113   | 165893   | 49.601    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 99.200%  |
| 50) Toluene-d8                | 10.332 | 98    | 649061   | 51.328    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 102.660% |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 304151   | 66.255    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 132.520% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.297  | 142   | 790      | 4.389     | ug/l # | 68       |
| 11) Tert butyl alcohol        | 5.185  | 59    | 10370    | Below Cal | #      | 74       |
| 16) Acetone                   | 4.156  | 43    | 20937    | 40.784    | ug/l # | 80       |
| 18) Methyl Acetate            | 4.909  | 43    | 166      | 1.481     | ug/l # | 55       |
| 20) Methylene Chloride        | 4.956  | 84    | 10416    | Below Cal | #      | 73       |
| 25) 2-Butanone                | 7.185  | 43    | 2563     | 3.393     | ug/l # | 52       |
| 31) Cyclohexane               | 7.967  | 56    | 7490     | 1.525     | ug/l # | 12       |
| 37) Ethyl Acetate             | 7.185  | 43    | 2563     | 1.263     | ug/l # | 1        |
| 39) Methylcyclohexane         | 9.350  | 83    | 9013     | 1.540     | ug/l # | 92       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 150209   | 46.296    | ug/l # | 100      |
| 77) Bromobenzene              | 12.926 | 156   | 677159   | 119.774   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 150209   | 108.663   | ug/l # | 7        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.538 | 75    | 4527     | 6.450     | ug/l # | 6        |
| 95) Naphthalene               | 15.379 | 128   | 140184   | 14.847    | ug/l   | 96       |
| -----                         |        |       |          |           |        |          |

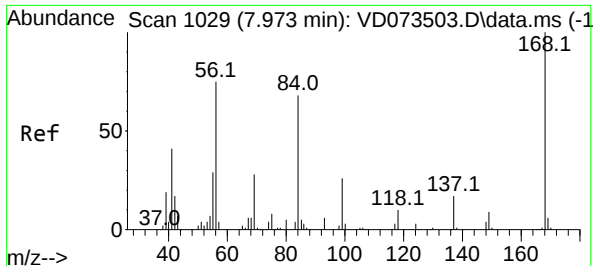
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061022\  
Data File : VD073526.D  
Acq On : 10 Jun 2022 14:07  
Operator : VA/SY  
Sample : N3234-01  
Misc : 5.08G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
RB-21499

Quant Time: Jun 10 23:05:48 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 09 12:33:32 2022  
Response via : Initial Calibration

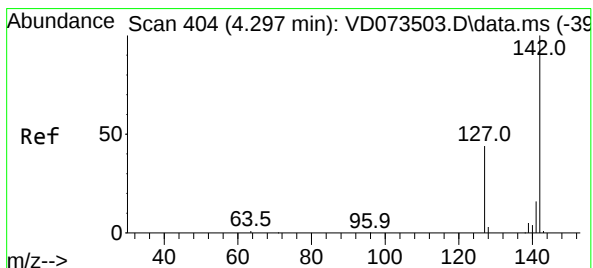
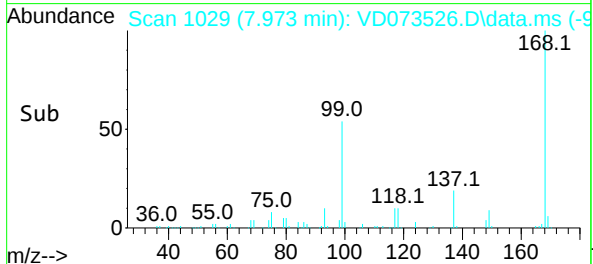
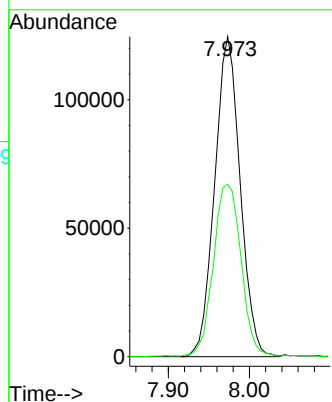
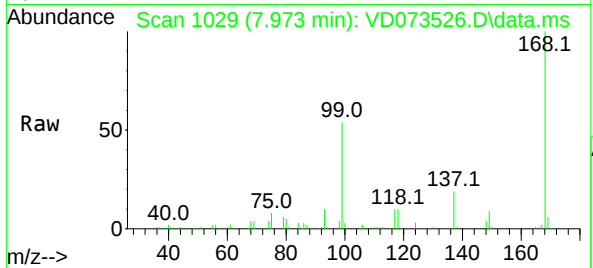




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

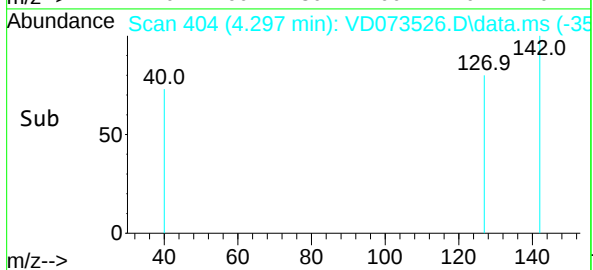
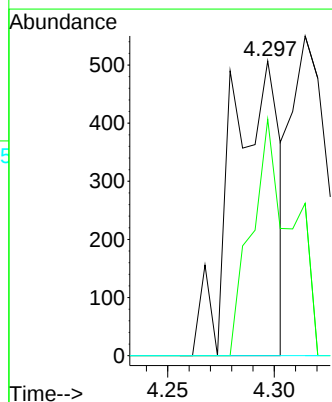
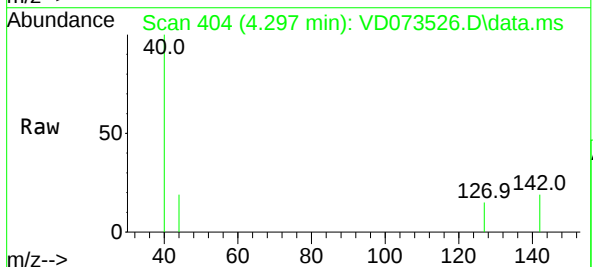
Instrument :  
MSVOA\_D  
ClientSampleId :  
RB-21499

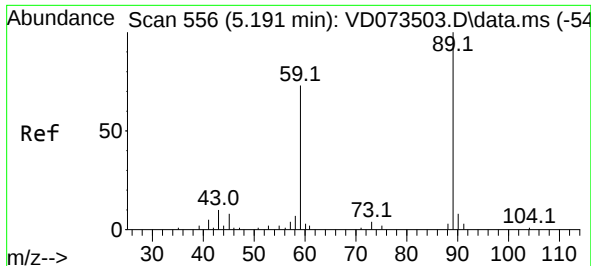
Tgt Ion:168 Resp: 271688  
Ion Ratio Lower Upper  
168 100  
99 53.7 49.8 74.6



#10  
Methyl Iodide  
Concen: 4.389 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.000 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

Tgt Ion:142 Resp: 790  
Ion Ratio Lower Upper  
142 100  
127 67.5 37.3 55.9#  
141 0.0 11.7 17.5#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.185 min Scan# 51

Delta R.T. -0.006 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

Instrument :

MSVOA\_D

ClientSampleId :

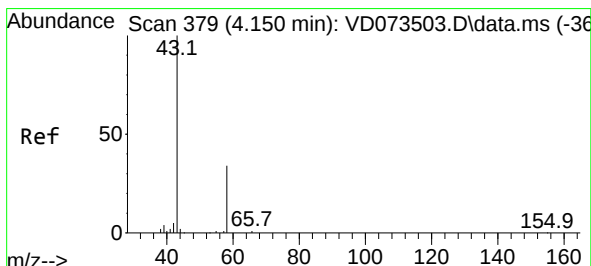
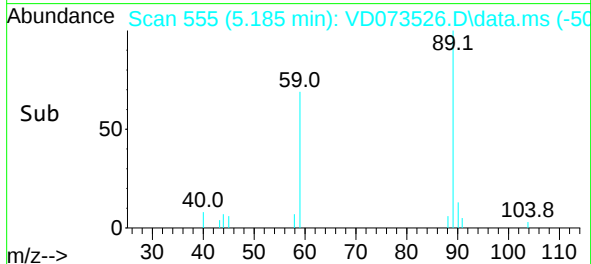
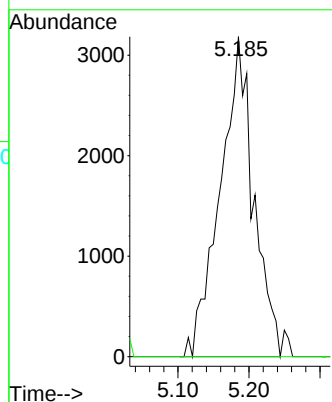
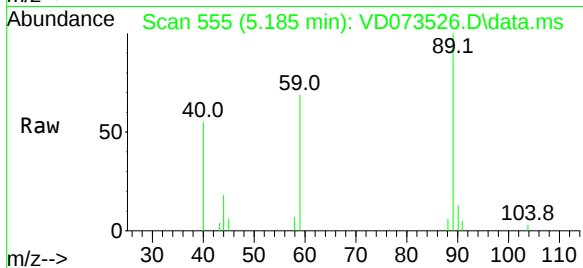
RB-21499

Tgt Ion: 59 Resp: 10370

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: 40.784 ug/l

RT: 4.156 min Scan# 380

Delta R.T. 0.006 min

Lab File: VD073526.D

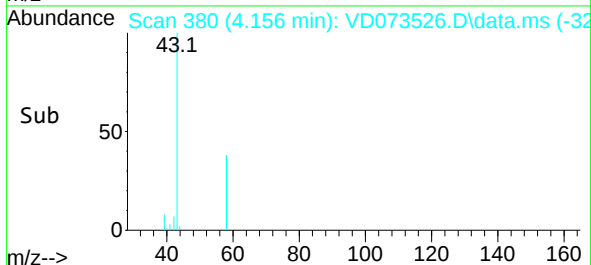
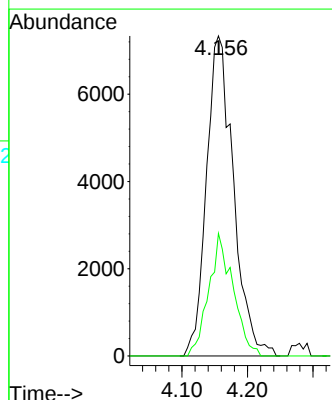
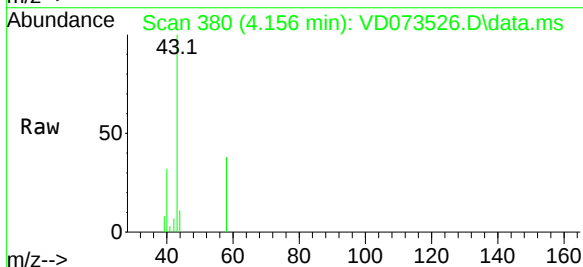
Acq: 10 Jun 2022 14:07

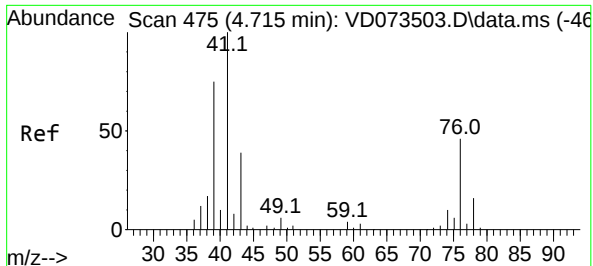
Tgt Ion: 43 Resp: 20937

Ion Ratio Lower Upper

43 100

58 38.3 22.1 33.1#





#18

Methyl Acetate

Concen: 1.481 ug/l

RT: 4.909 min Scan# 508

Delta R.T. 0.194 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

Instrument :

MSVOA\_D

ClientSampleId :

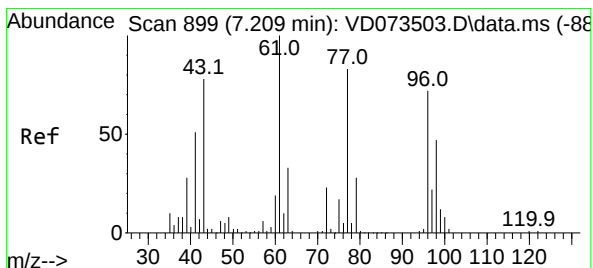
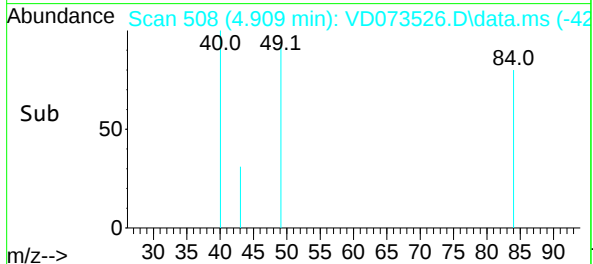
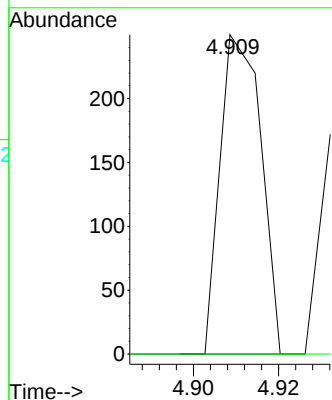
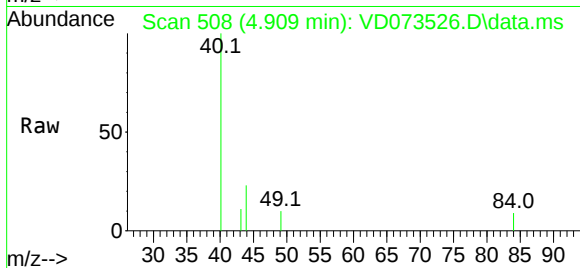
RB-21499

Tgt Ion: 43 Resp: 166

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#



#25

2-Butanone

Concen: 3.393 ug/l

RT: 7.185 min Scan# 895

Delta R.T. -0.024 min

Lab File: VD073526.D

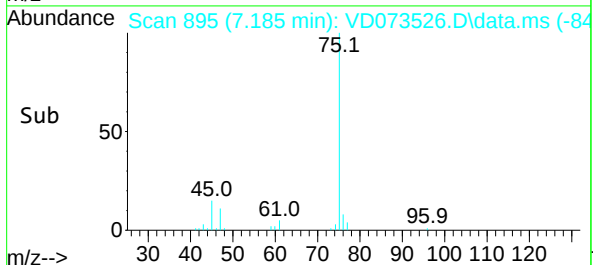
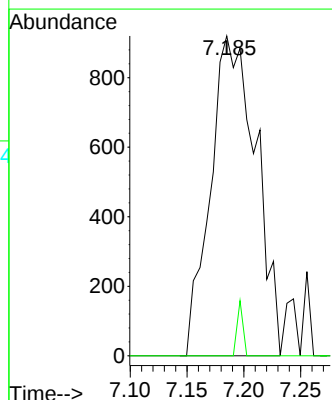
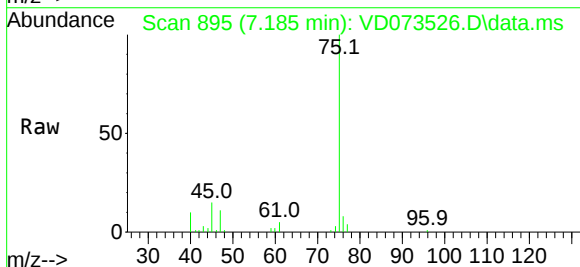
Acq: 10 Jun 2022 14:07

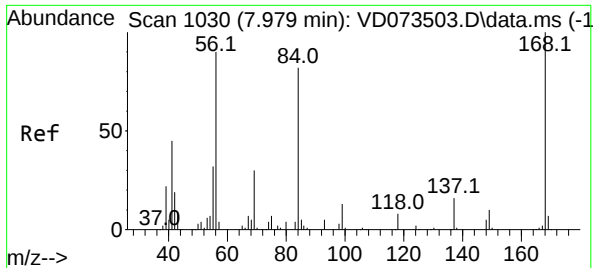
Tgt Ion: 43 Resp: 2563

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#





#31

Cyclohexane

Concen: 1.525 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

Instrument :

MSVOA\_D

ClientSampleId :

RB-21499

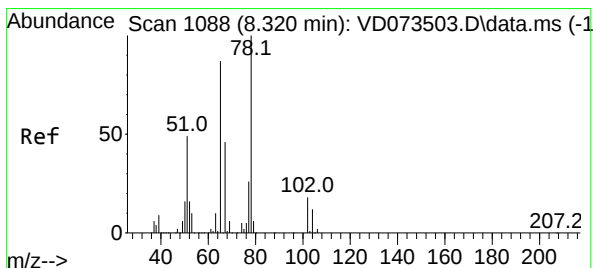
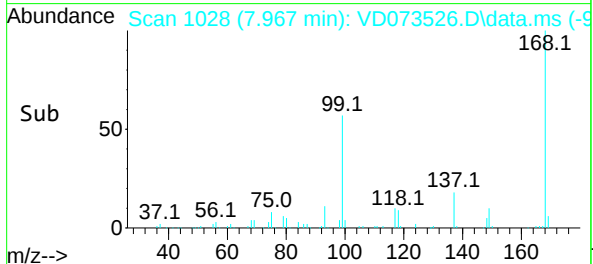
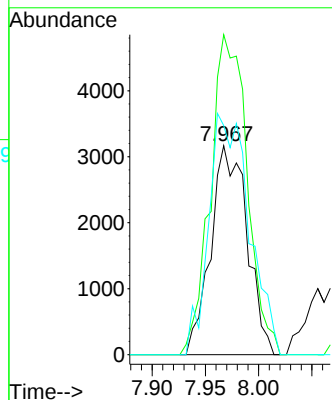
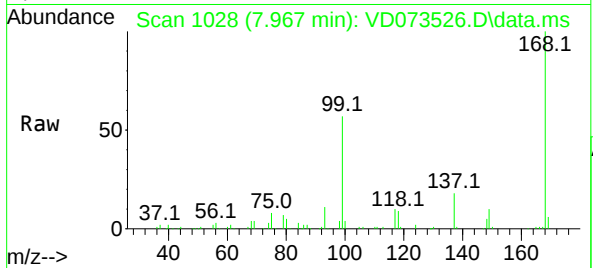
Tgt Ion: 56 Resp: 7490

Ion Ratio Lower Upper

56 100

69 153.1 25.4 38.2#

84 109.6 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 46.272 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD073526.D

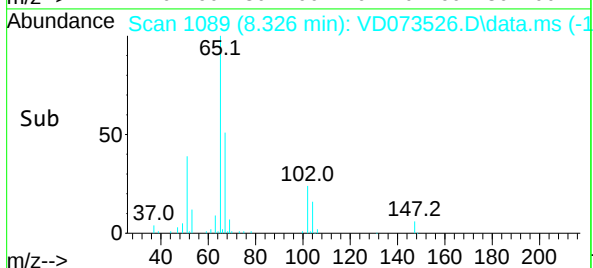
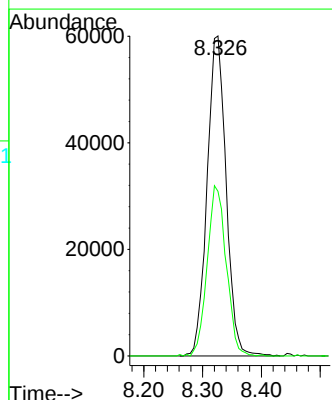
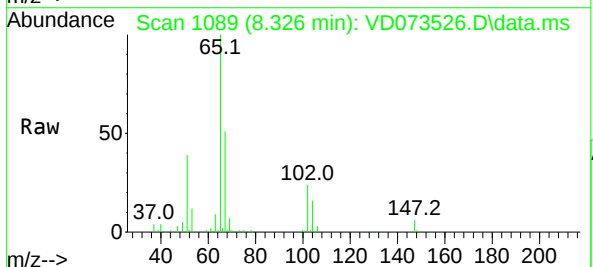
Acq: 10 Jun 2022 14:07

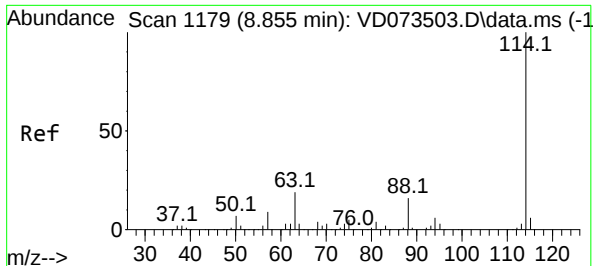
Tgt Ion: 65 Resp: 134909

Ion Ratio Lower Upper

65 100

67 53.2 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

Instrument :

MSVOA\_D

ClientSampleId :

RB-21499

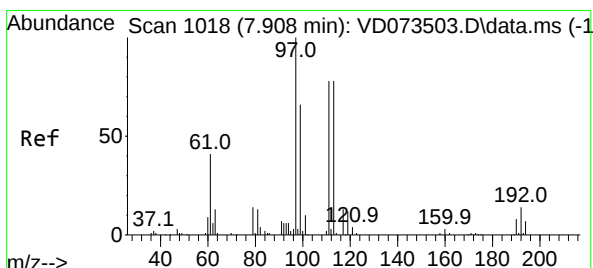
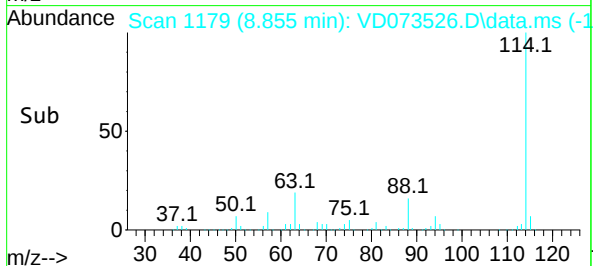
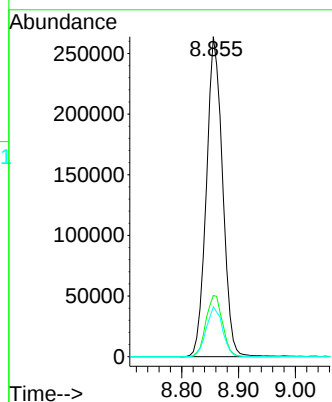
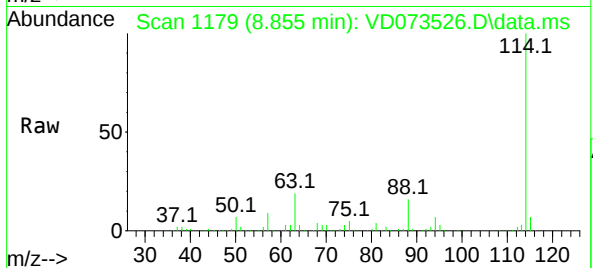
Tgt Ion:114 Resp: 520116

Ion Ratio Lower Upper

114 100

63 19.1 0.0 46.6

88 15.6 0.0 33.2



#35

Dibromofluoromethane

Concen: 49.601 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

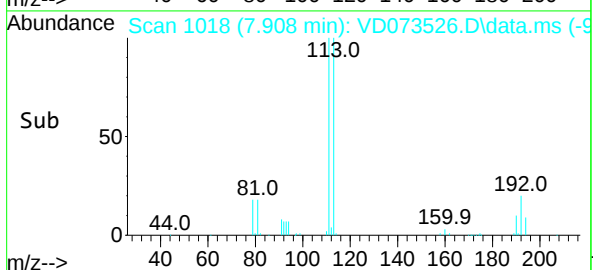
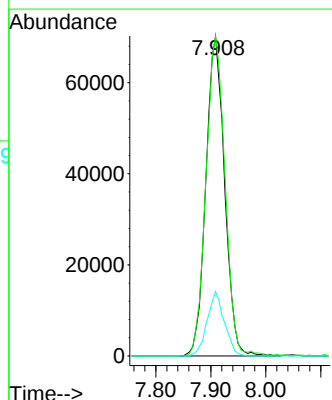
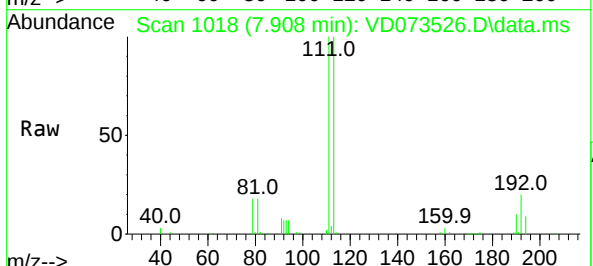
Tgt Ion:113 Resp: 165893

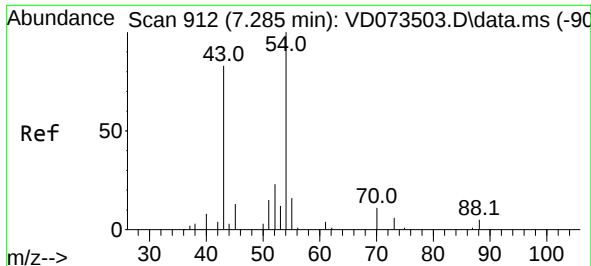
Ion Ratio Lower Upper

113 100

111 102.1 83.8 125.6

192 18.5 14.6 21.8





#37

Ethyl Acetate

Concen: 1.263 ug/l

RT: 7.185 min Scan# 895

Delta R.T. -0.100 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

Instrument :

MSVOA\_D

ClientSampleId :

RB-21499

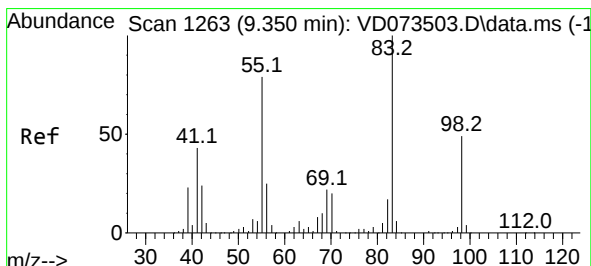
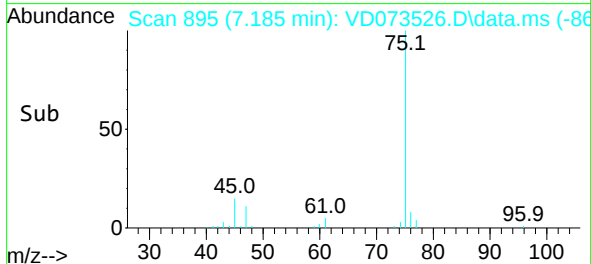
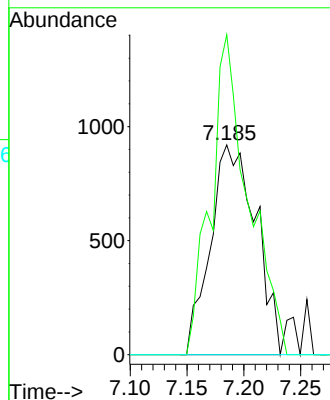
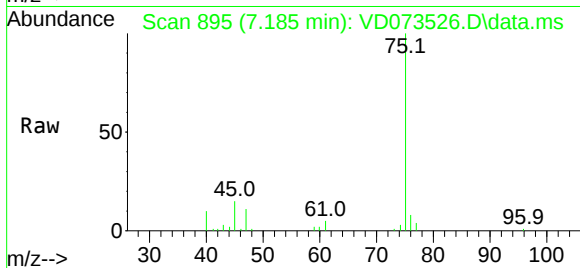
Tgt Ion: 43 Resp: 2563

Ion Ratio Lower Upper

43 100

61 126.2 9.8 14.8#

70 0.0 6.9 10.3#



#39

Methylcyclohexane

Concen: 1.540 ug/l

RT: 9.350 min Scan# 1263

Delta R.T. -0.000 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

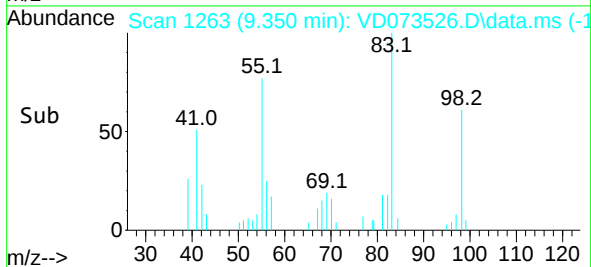
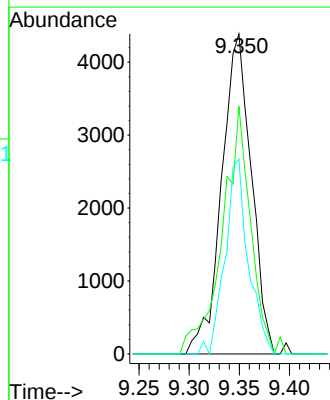
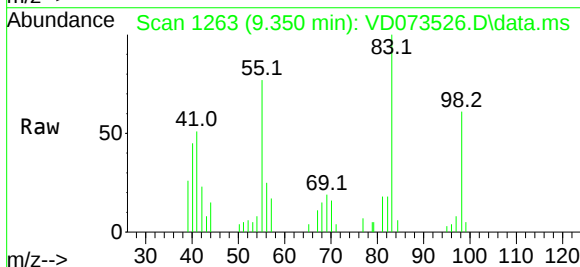
Tgt Ion: 83 Resp: 9013

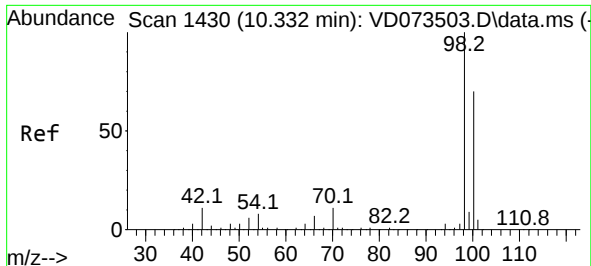
Ion Ratio Lower Upper

83 100

55 77.4 63.2 94.8

98 60.9 38.2 57.4#

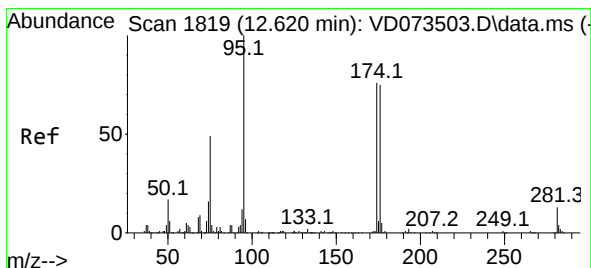
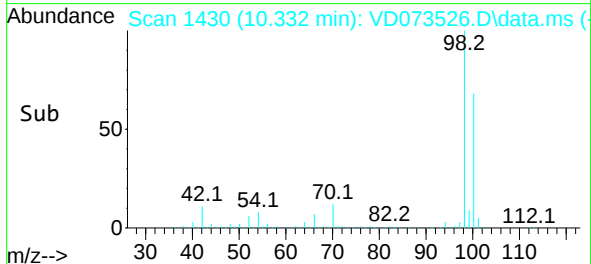
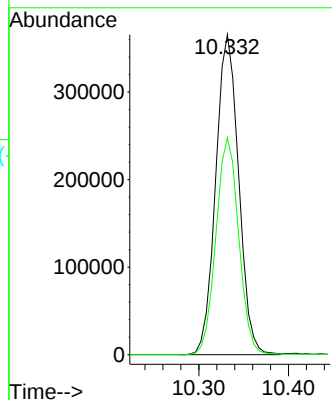
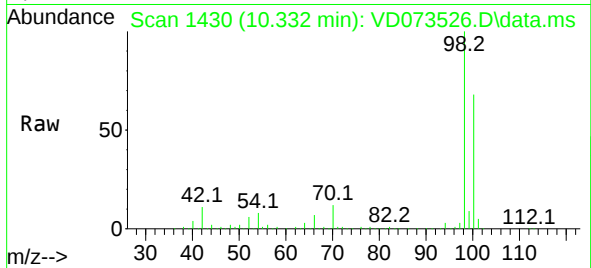




#50  
Toluene-d8  
Concen: 51.328 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

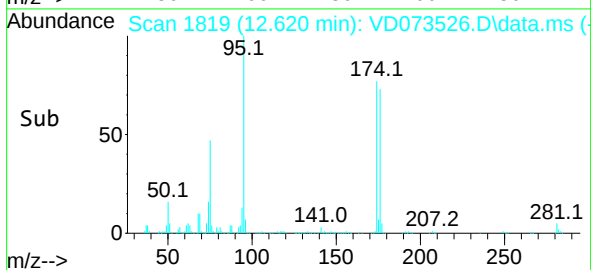
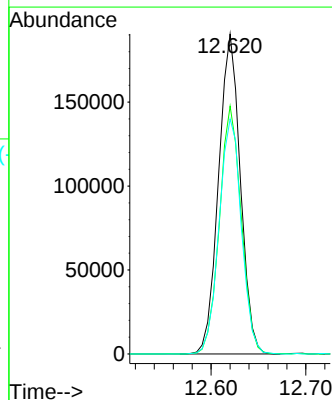
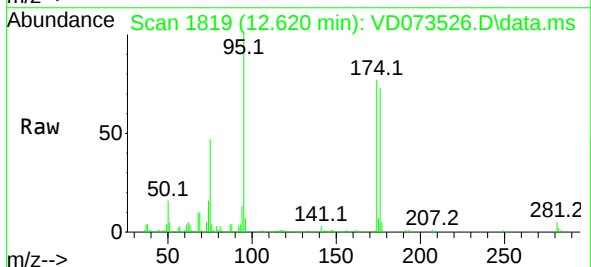
Instrument :  
MSVOA\_D  
ClientSampleId :  
RB-21499

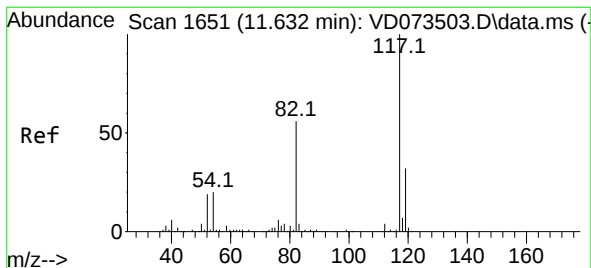
Tgt Ion: 98 Resp: 649061  
Ion Ratio Lower Upper  
98 100  
100 67.4 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 66.255 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

Tgt Ion: 95 Resp: 304151  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 152.8  
176 75.4 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.632 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

Instrument :

MSVOA\_D

ClientSampleId :

RB-21499

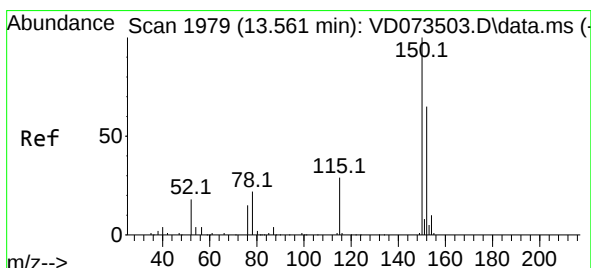
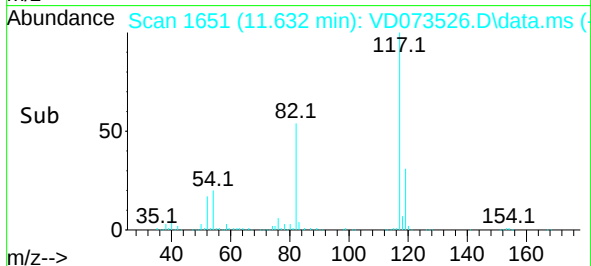
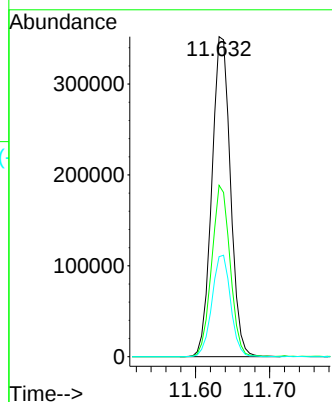
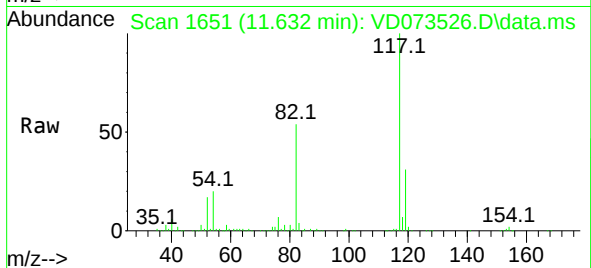
Tgt Ion:117 Resp: 614572

Ion Ratio Lower Upper

117 100

82 53.6 45.3 67.9

119 31.2 26.6 40.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VD073526.D

Acq: 10 Jun 2022 14:07

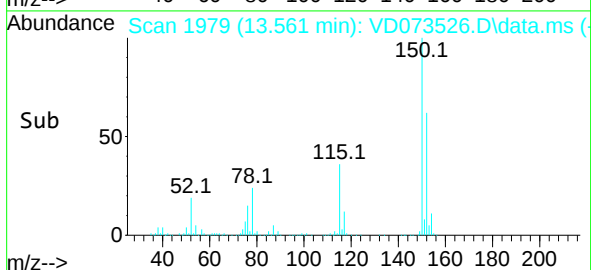
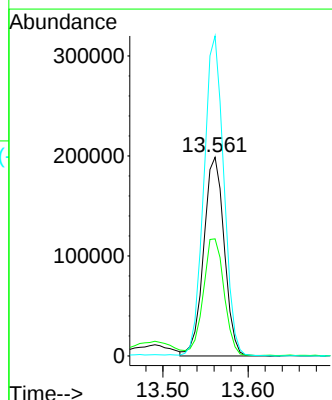
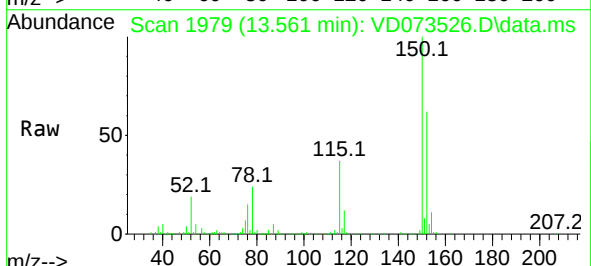
Tgt Ion:152 Resp: 333988

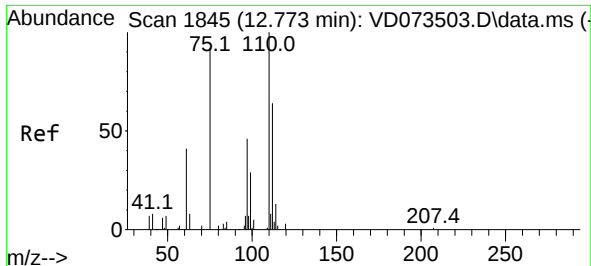
Ion Ratio Lower Upper

152 100

115 59.2 31.3 93.8

150 156.5 0.0 348.6

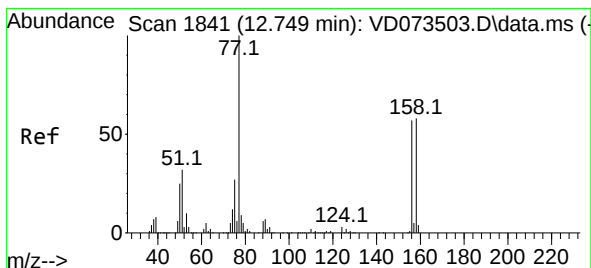
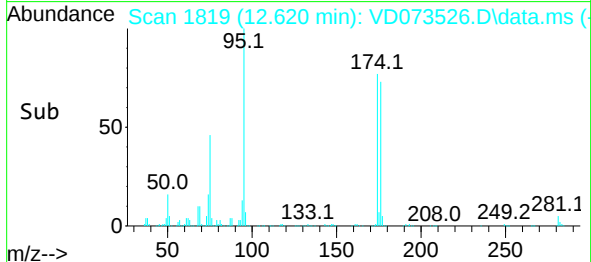
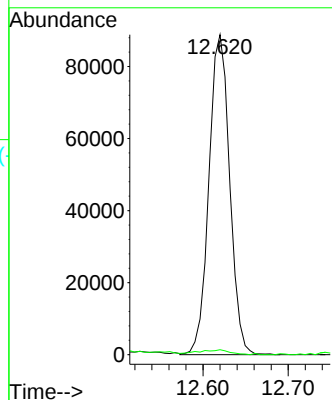
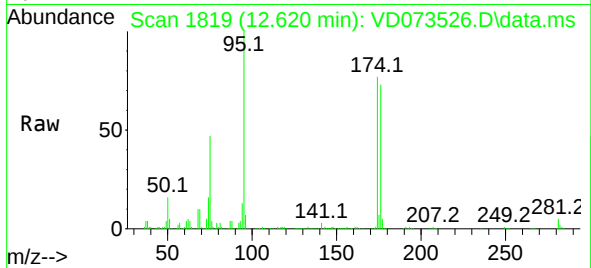




#76  
1,2,3-Trichloropropane  
Concen: 46.296 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

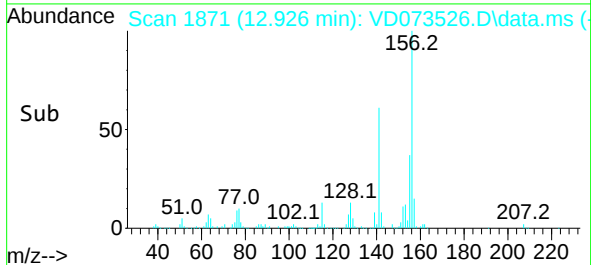
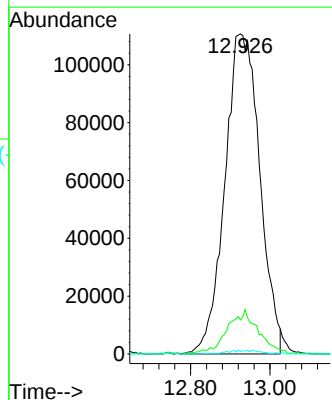
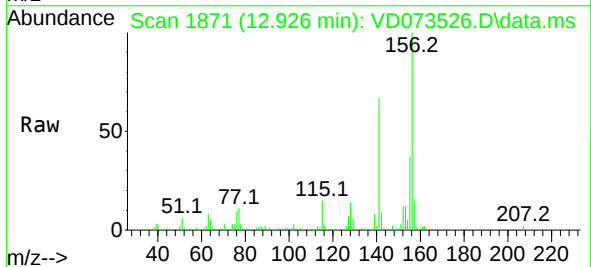
Instrument :  
MSVOA\_D  
ClientSampleId :  
RB-21499

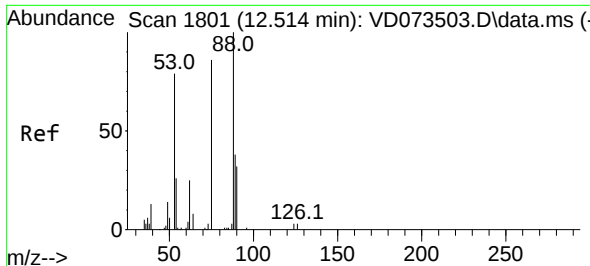
Tgt Ion: 75 Resp: 150209  
Ion Ratio Lower Upper  
75 100  
77 2.3 0.0 0.0#



#77  
Bromobenzene  
Concen: 119.774 ug/l  
RT: 12.926 min Scan# 1871  
Delta R.T. 0.177 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

Tgt Ion:156 Resp: 677159  
Ion Ratio Lower Upper  
156 100  
77 12.2 102.8 308.3#  
158 0.0 48.7 146.1#

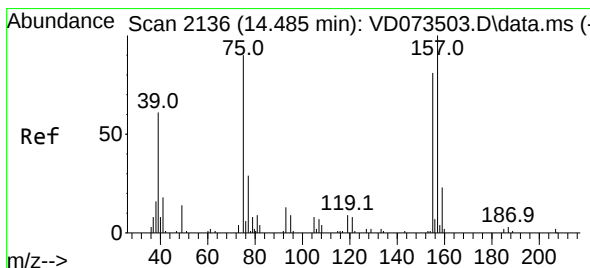
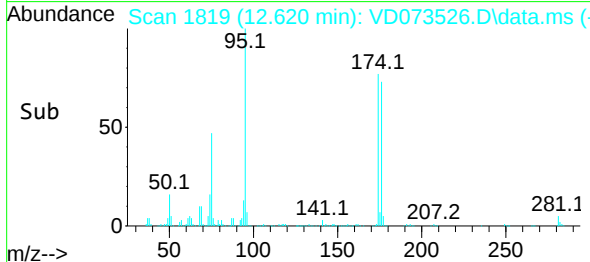
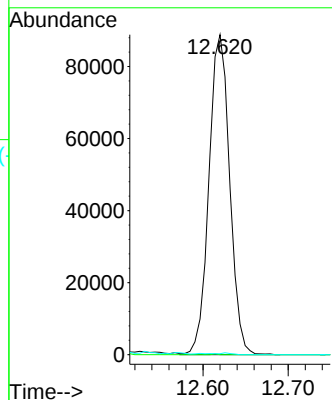
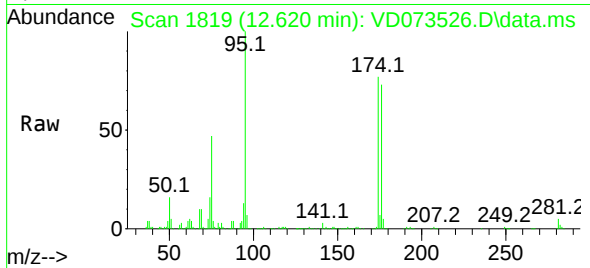




#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.663 ug/l  
RT: 12.620 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

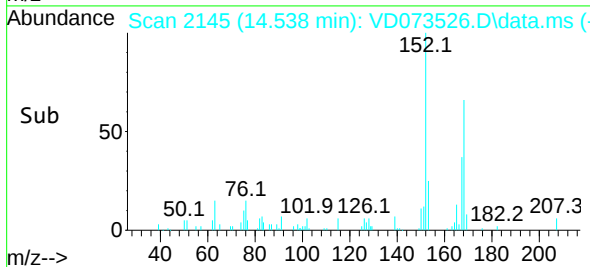
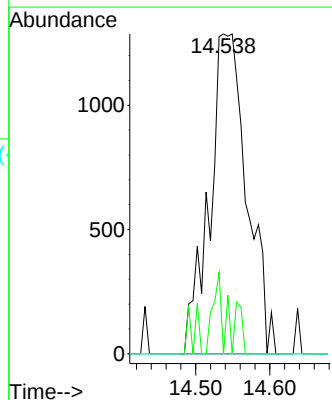
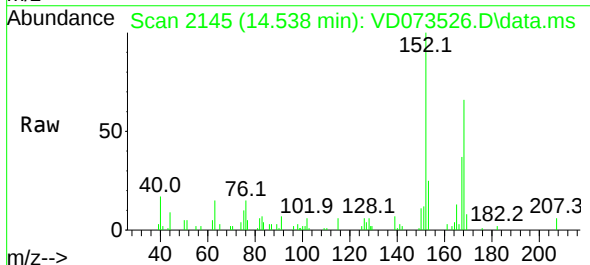
Instrument :  
MSVOA\_D  
ClientSampleId :  
RB-21499

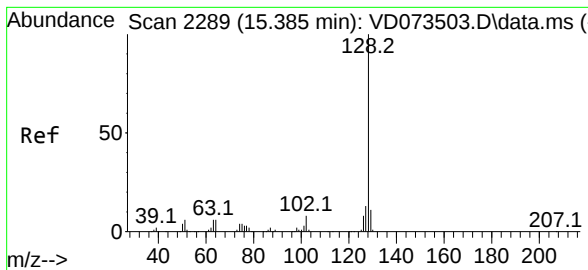
Tgt Ion: 75 Resp: 150209  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.3 33.9 50.9#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 6.450 ug/l  
RT: 14.538 min Scan# 2145  
Delta R.T. 0.053 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

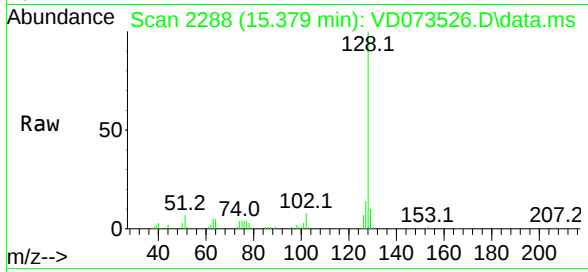
Tgt Ion: 75 Resp: 4527  
Ion Ratio Lower Upper  
75 100  
155 0.0 36.8 110.3#  
157 0.0 48.4 145.0#





#95  
Naphthalene  
Concen: 14.847 ug/l  
RT: 15.379 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VD073526.D  
Acq: 10 Jun 2022 14:07

Instrument :  
MSVOA\_D  
ClientSampleId :  
RB-21499



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 140184 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 14.3  | 10.3  | 15.5   |
| 129      | 11.9  | 8.4   | 12.6   |

