

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090324\  
 Data File : VY019428.D  
 Acq On : 03 Sep 2024 14:50  
 Operator : SY/MD  
 Sample : P3794-03  
 Misc : 5.06g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Sep 04 01:35:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082924S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 02:45:30 2024  
 Response via : Initial Calibration

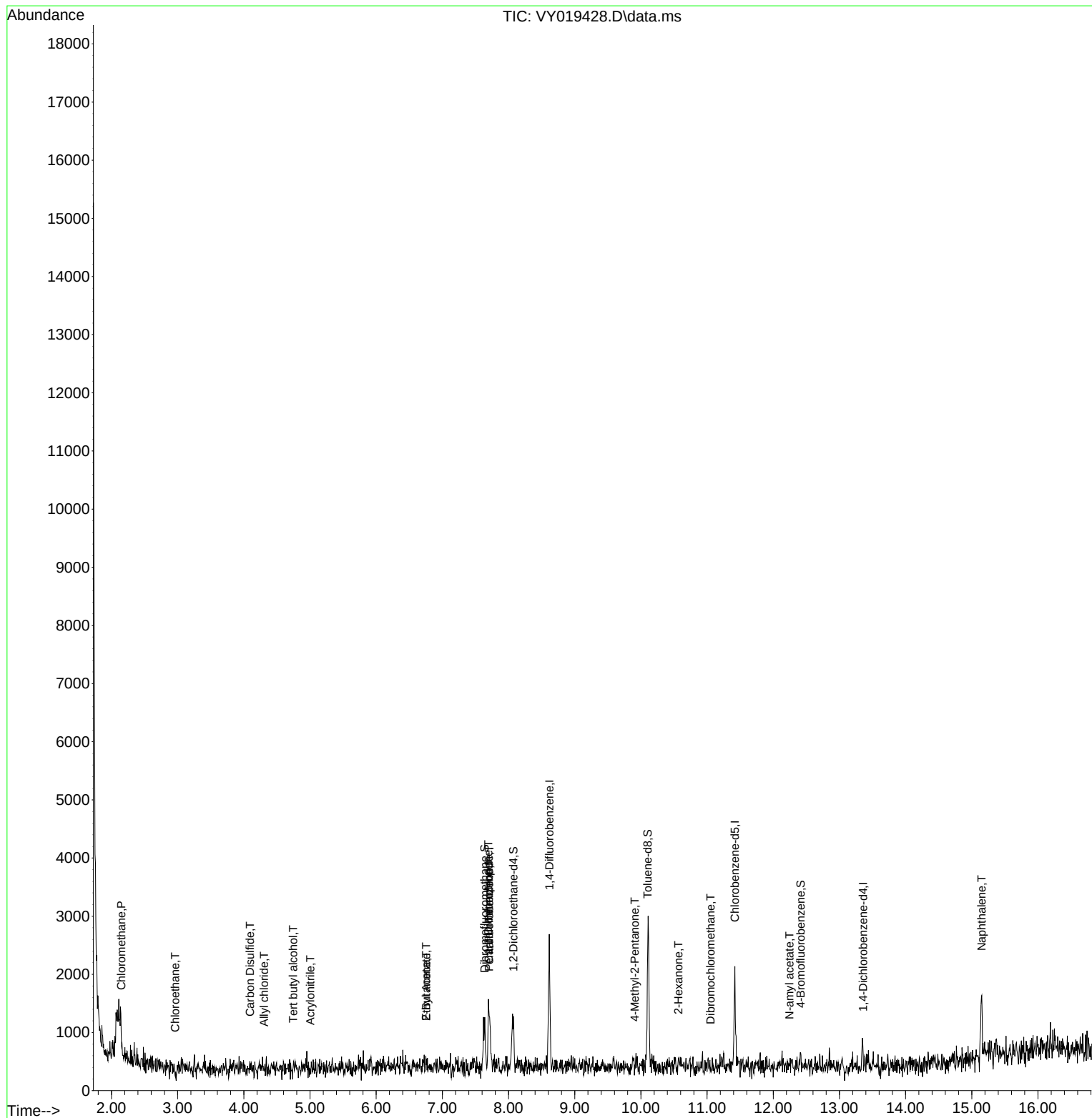
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.707  | 168   | 1256     | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.616  | 114   | 1859     | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.420 | 117   | 928      | 50.000   | ug/l       | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4  | 13.359 | 152   | 110      | 50.000   | ug/l       | 0.01     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.073  | 65    | 729      | 61.278   | ug/l       | 0.02     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 122.560% |          |
| 35) Dibromofluoromethane    | 7.640  | 113   | 708      | 60.239   | ug/l       | 0.01     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 120.480% |          |
| 50) Toluene-d8              | 10.103 | 98    | 2001     | 46.249   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 92.500%  |          |
| 62) 4-Bromofluorobenzene    | 12.414 | 95    | 153      | 10.933   | ug/l       | 0.01     |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | = 21.860%# |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 3) Chloromethane            | 2.147  | 50    | 20       | 1.201    | ug/l #     | 43       |
| 6) Chloroethane             | 2.964  | 64    | 22       | 1.891    | ug/l #     | 42       |
| 11) Tert butyl alcohol      | 4.744  | 59    | 18       | 26.846   | ug/l #     | 88       |
| 14) Allyl chloride          | 4.306  | 41    | 19       | 1.175    | ug/l #     | 19       |
| 15) Acrylonitrile           | 5.007  | 53    | 20       | 9.167    | ug/l #     | 18       |
| 17) Carbon Disulfide        | 4.092  | 76    | 46       | 1.361    | ug/l #     | 76       |
| 25) 2-Butanone              | 6.756  | 43    | 21       | 6.710    | ug/l #     | 41       |
| 36) 1,1-Dichloropropene     | 7.695  | 75    | 22       | 1.325    | ug/l #     | 40       |
| 37) Ethyl Acetate           | 6.756  | 43    | 21       | 3.194    | ug/l #     | 67       |
| 38) Carbon Tetrachloride    | 7.701  | 117   | 119      | 5.878    | ug/l #     | 13       |
| 51) 4-Methyl-2-Pentanone    | 9.908  | 43    | 18       | 2.679    | ug/l #     | 31       |
| 59) 2-Hexanone              | 10.567 | 43    | 47       | 10.549   | ug/l #     | 19       |
| 60) Dibromochloromethane    | 11.054 | 129   | 28       | 2.443    | ug/l #     | 10       |
| 74) N-amyl acetate          | 12.243 | 43    | 52       | 30.831   | ug/l #     | 37       |
| 95) Naphthalene             | 15.151 | 128   | 1286     | 455.555  | ug/l #     | 72       |
| -----                       |        |       |          |          |            |          |

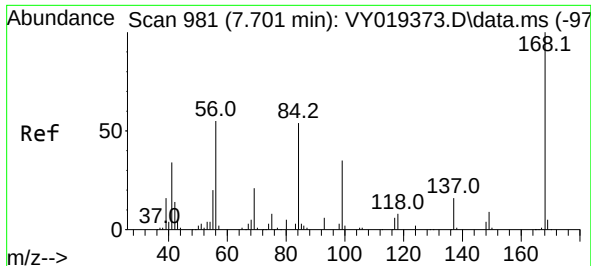
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090324\  
Data File : VY019428.D  
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Sample : P3794-03  
Misc : 5.06g/5.0mL/MSVOA\_Y/SOIL/B  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

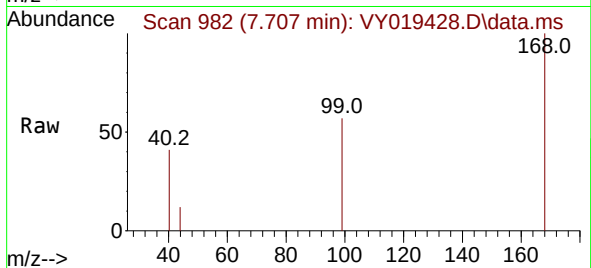
Quant Time: Sep 04 01:35:26 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082924S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 30 02:45:30 2024  
Response via : Initial Calibration



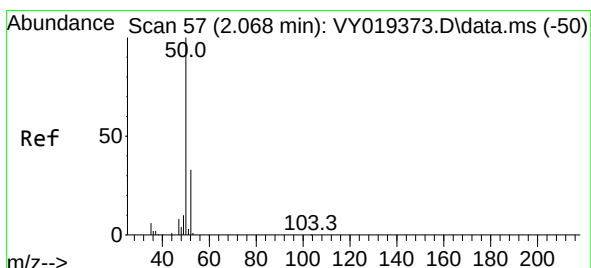
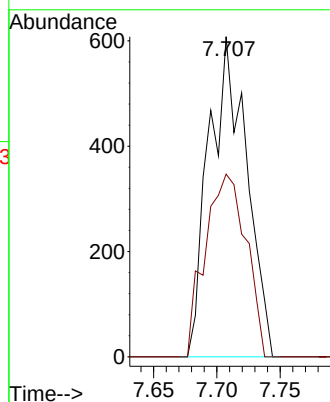
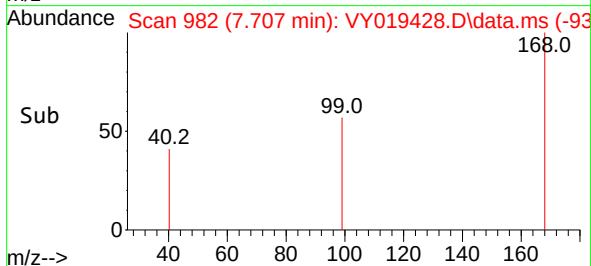


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

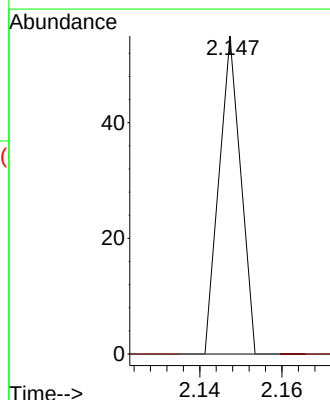
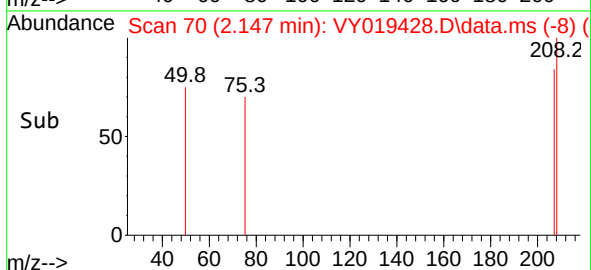
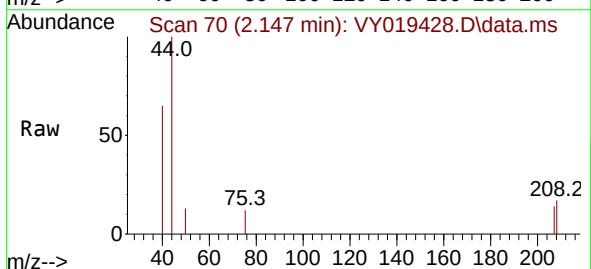


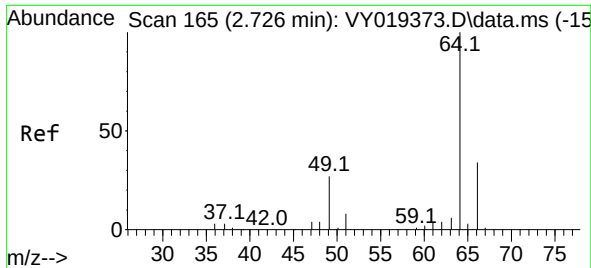
Tgt Ion:168 Resp: 1256  
Ion Ratio Lower Upper  
168 100  
99 57.1 39.1 58.7



#3  
Chloromethane  
Concen: 1.201 ug/l  
RT: 2.147 min Scan# 70  
Delta R.T. 0.079 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

Tgt Ion: 50 Resp: 20  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.6 38.4#

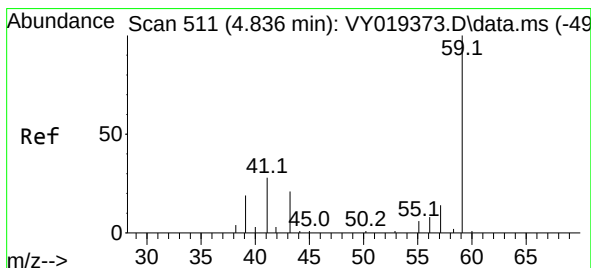
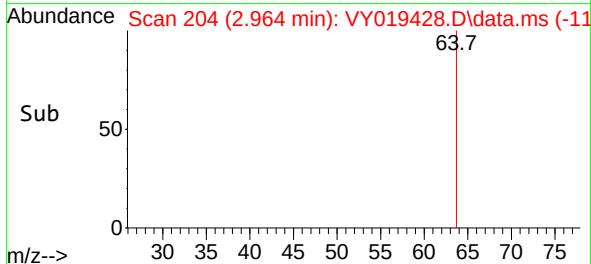
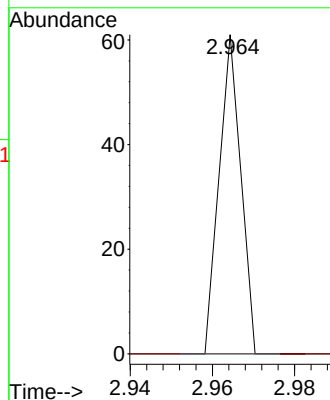
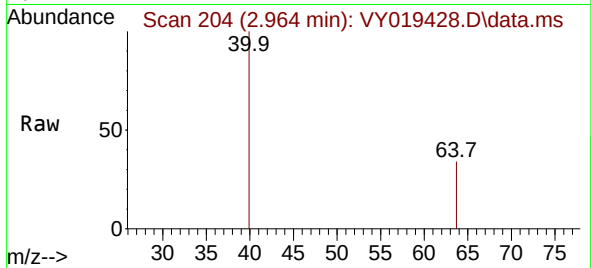




#6  
Chloroethane  
Concen: 1.891 ug/l  
RT: 2.964 min Scan# 204  
Delta R.T. 0.238 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

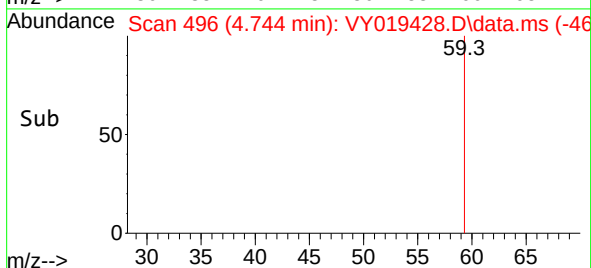
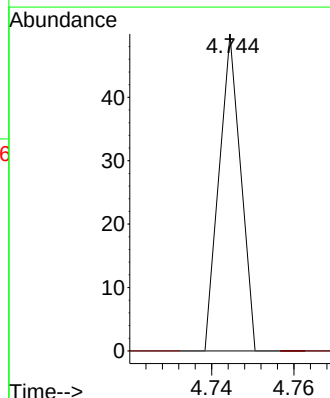
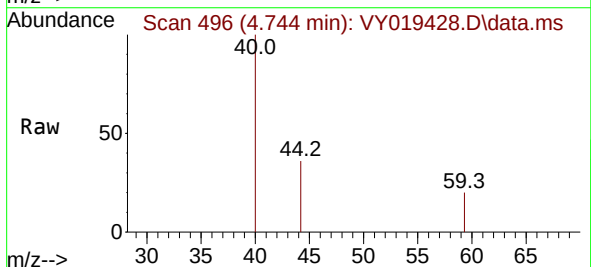
Instrument :  
MSVOA\_Y  
ClientSampleId :

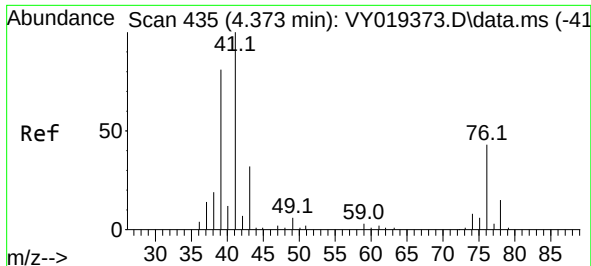
Tgt Ion: 64 Resp: 22  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.1 39.1#



#11  
Tert butyl alcohol  
Concen: 26.846 ug/l  
RT: 4.744 min Scan# 496  
Delta R.T. -0.091 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

Tgt Ion: 59 Resp: 18  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#





#14

Allyl chloride

Concen: 1.175 ug/l

RT: 4.306 min Scan# 41

Delta R.T. -0.067 min

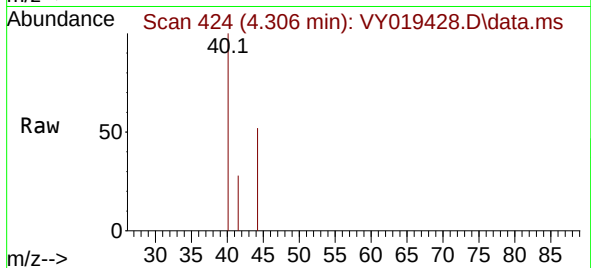
Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

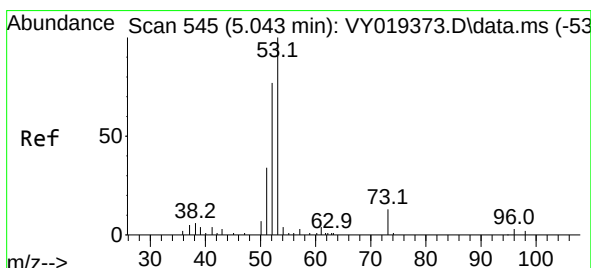
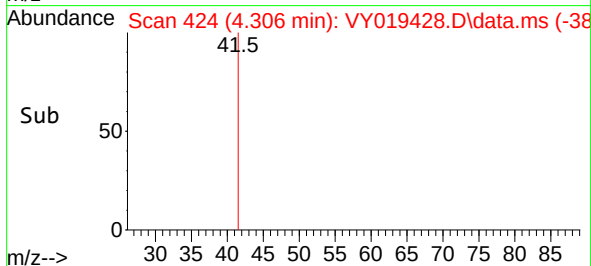
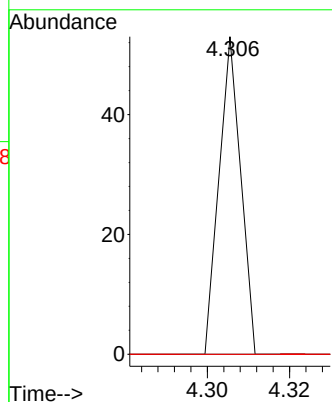
Instrument :

MSVOA\_Y

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 19    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 58.3  | 87.5# |
| 76       | 0.0   | 39.0  | 58.6# |



#15

Acrylonitrile

Concen: 9.167 ug/l

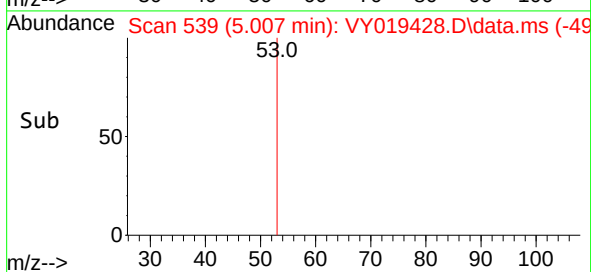
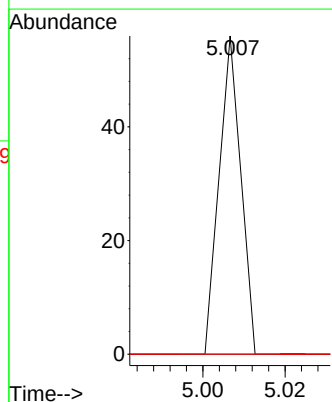
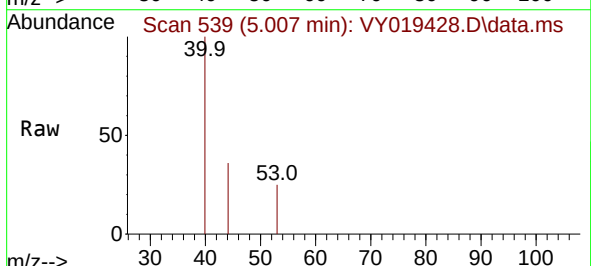
RT: 5.007 min Scan# 539

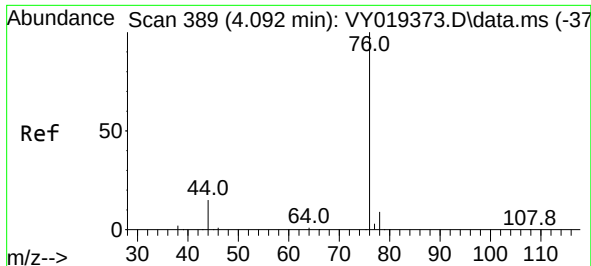
Delta R.T. -0.037 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 53    | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 0.0   | 64.7  | 97.1# |
| 51       | 0.0   | 28.4  | 42.6# |

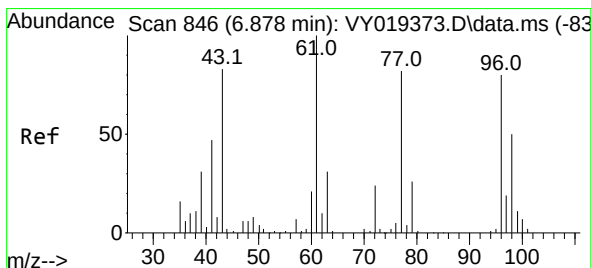
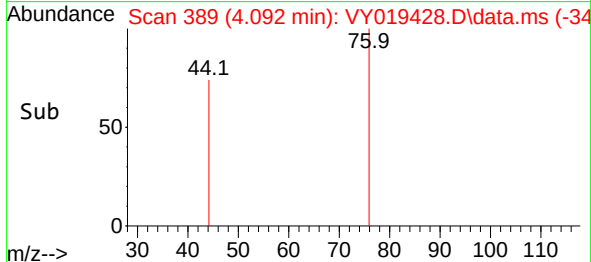
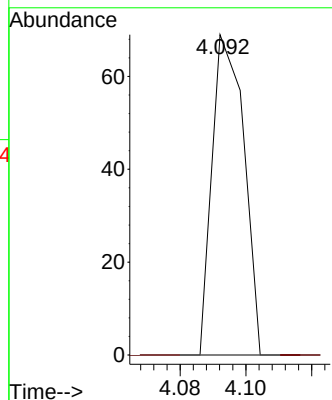
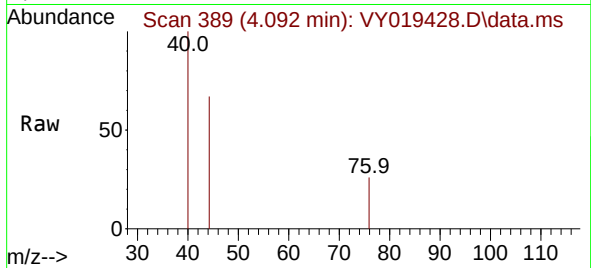




#17  
Carbon Disulfide  
Concen: 1.361 ug/l  
RT: 4.092 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

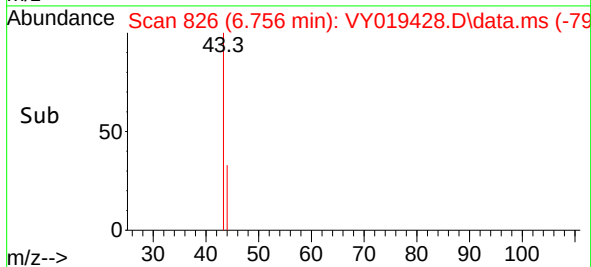
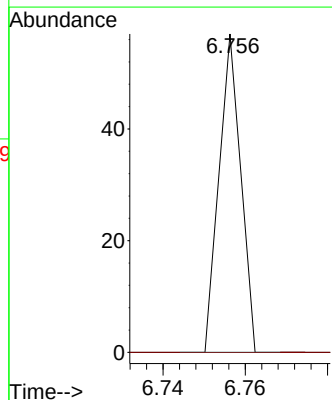
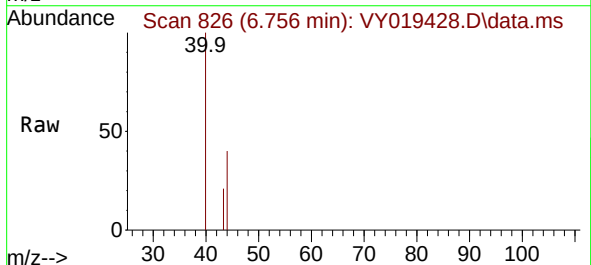
Instrument :  
MSVOA\_Y  
ClientSampleId :

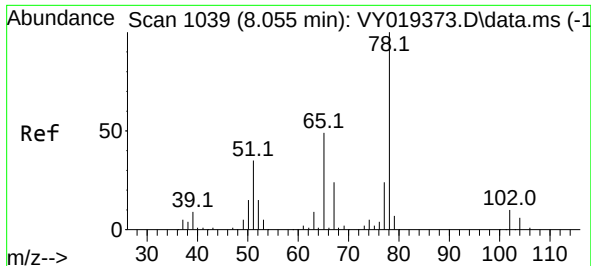
Tgt Ion: 76 Resp: 46  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.8 10.2#



#25  
2-Butanone  
Concen: 6.710 ug/l  
RT: 6.756 min Scan# 826  
Delta R.T. -0.122 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

Tgt Ion: 43 Resp: 21  
Ion Ratio Lower Upper  
43 100  
72 0.0 27.3 40.9#





#33

1,2-Dichloroethane-d4

Concen: 61.278 ug/l

RT: 8.073 min Scan# 110

Delta R.T. 0.018 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

Instrument :

MSVOA\_Y

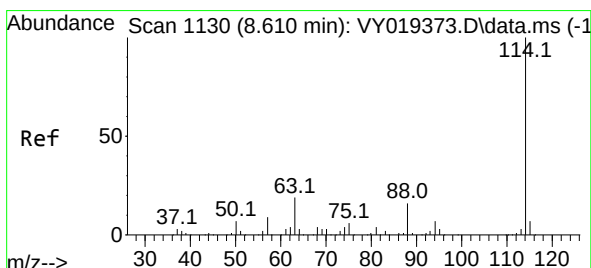
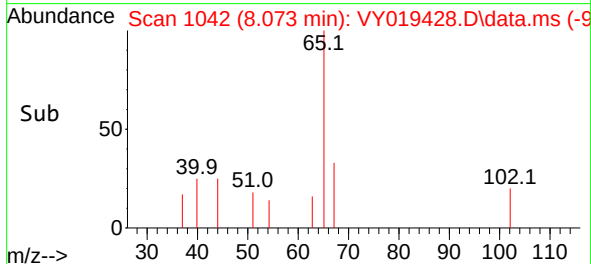
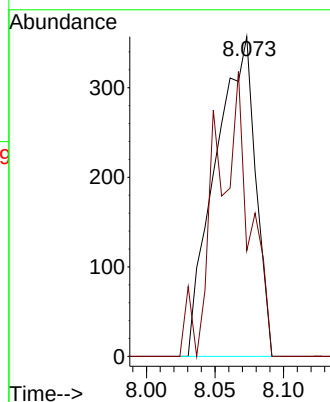
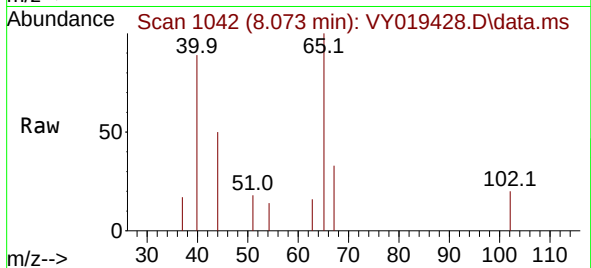
ClientSampleId :

Tgt Ion: 65 Resp: 729

Ion Ratio Lower Upper

65 100

67 75.2 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

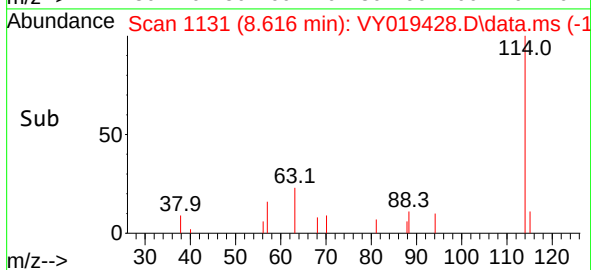
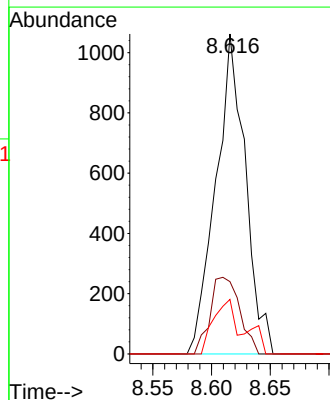
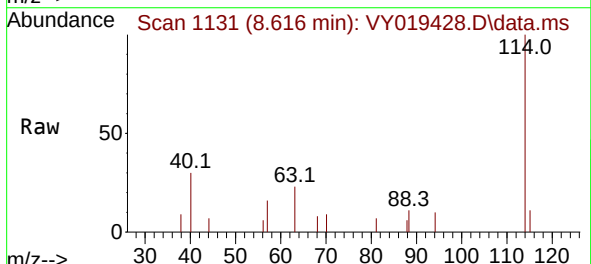
Tgt Ion: 114 Resp: 1859

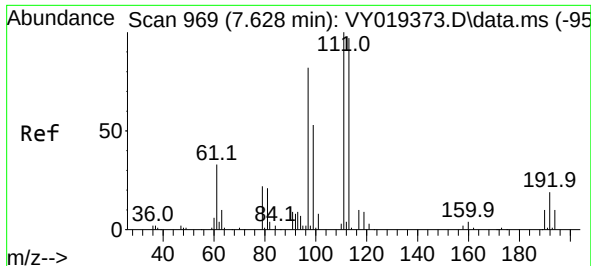
Ion Ratio Lower Upper

114 100

63 22.6 0.0 35.0

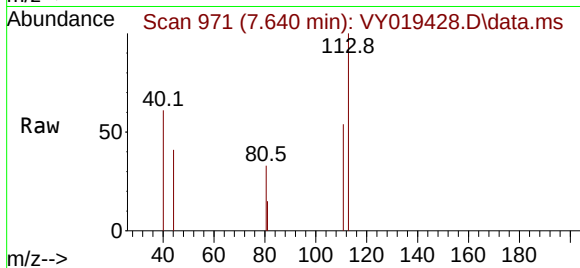
88 17.0 0.0 27.2



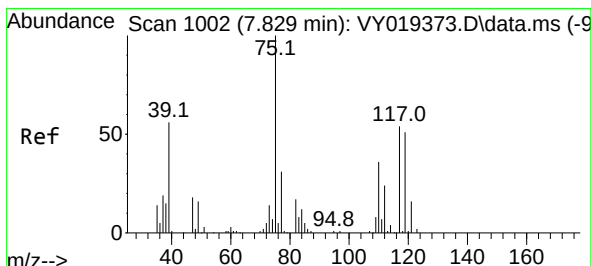
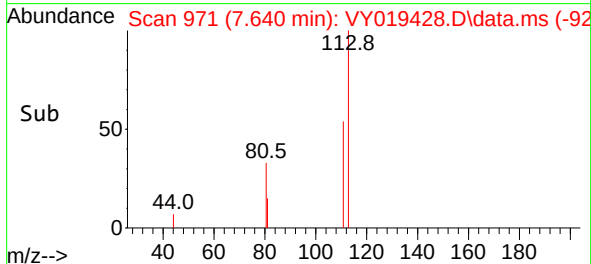
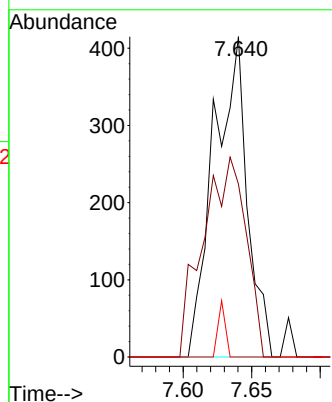


#35  
 Dibromofluoromethane  
 Concen: 60.239 ug/l  
 RT: 7.640 min Scan# 91  
 Delta R.T. 0.012 min  
 Lab File: VY019428.D  
 Acq: 03 Sep 2024 14:50

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

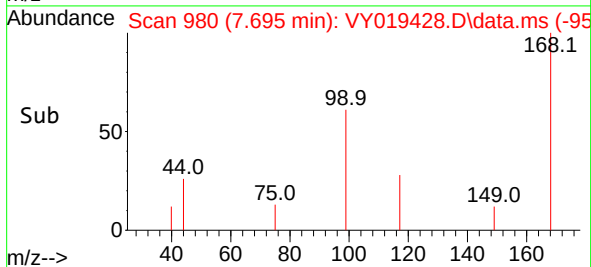
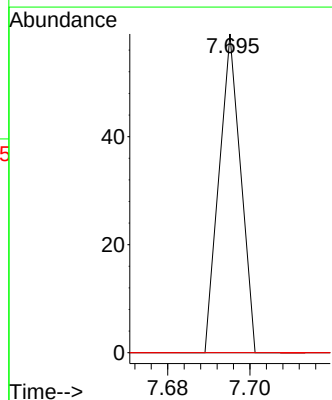
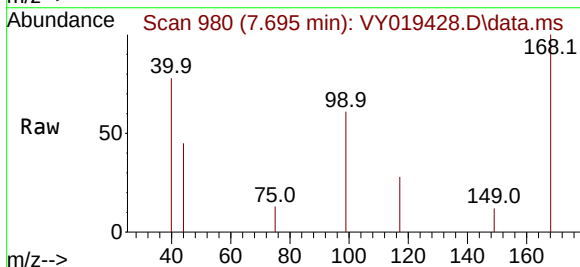


|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:113 | Resp: | 708   |        |
| Ion         | Ratio | Lower | Upper  |
| 113         | 100   |       |        |
| 111         | 79.8  | 82.2  | 123.4# |
| 192         | 3.8   | 15.9  | 23.9#  |

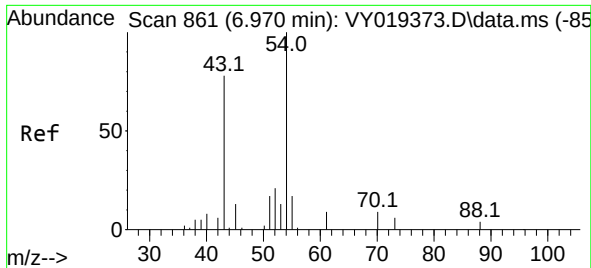


#36  
 1,1-Dichloropropene  
 Concen: 1.325 ug/l  
 RT: 7.695 min Scan# 980  
 Delta R.T. -0.134 min  
 Lab File: VY019428.D  
 Acq: 03 Sep 2024 14:50

|             |       |       |  |
|-------------|-------|-------|--|
| Tgt Ion: 75 | Resp: | 22    |  |
| Ion Ratio   | Lower | Upper |  |
| 75 100      |       |       |  |
| 110 0.0     | 19.0  | 57.0# |  |
| 77 0.0      | 25.3  | 37.9# |  |



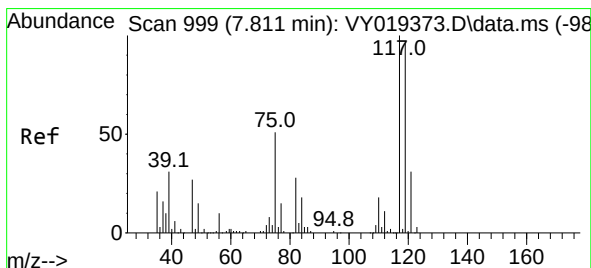
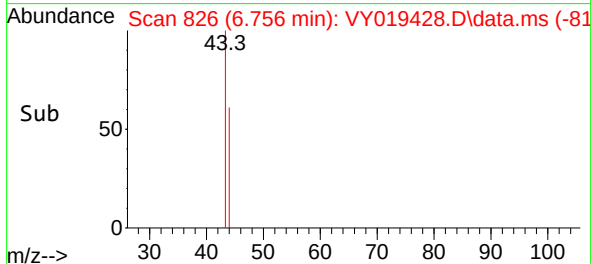
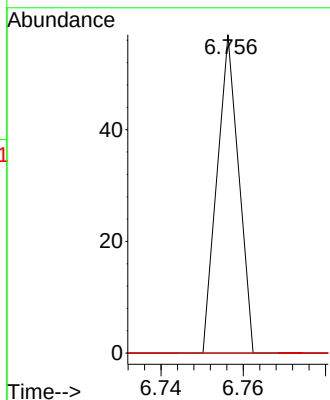
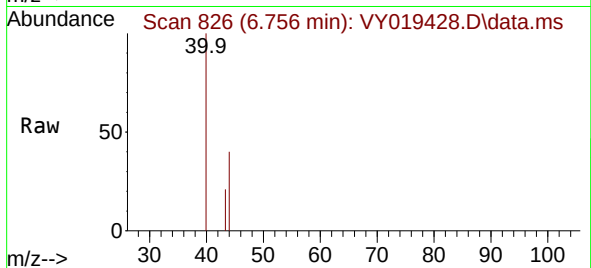




#37  
Ethyl Acetate  
Concen: 3.194 ug/l  
RT: 6.756 min Scan# 81  
Delta R.T. -0.213 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

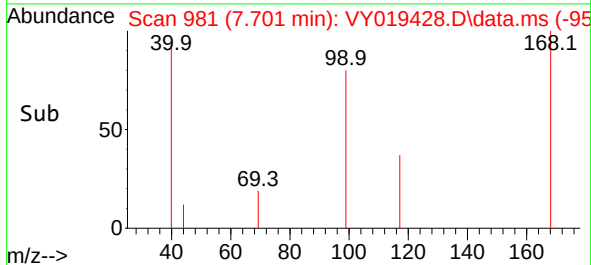
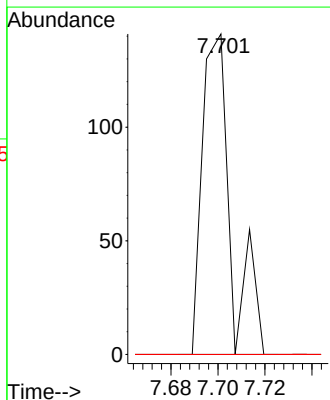
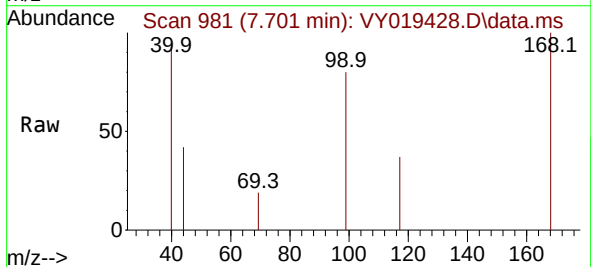
Instrument :  
MSVOA\_Y  
ClientSampleId :

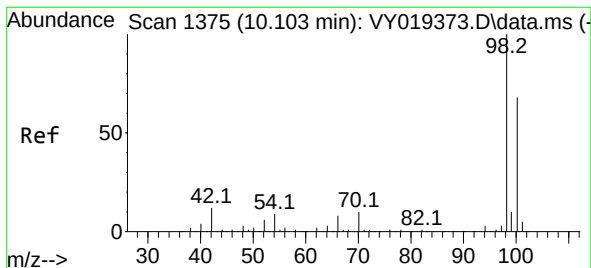
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 21    |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 0.0      | 12.6 19.0#  |
| 70 0.0      | 7.8 11.8#   |



#38  
Carbon Tetrachloride  
Concen: 5.878 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. -0.110 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

|             |             |
|-------------|-------------|
| Tgt Ion:117 | Resp: 119   |
| Ion Ratio   | Lower Upper |
| 117 100     |             |
| 119 0.0     | 75.8 113.6# |
| 121 0.0     | 24.0 36.0#  |





#50

Toluene-d8

Concen: 46.249 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

Instrument :

MSVOA\_Y

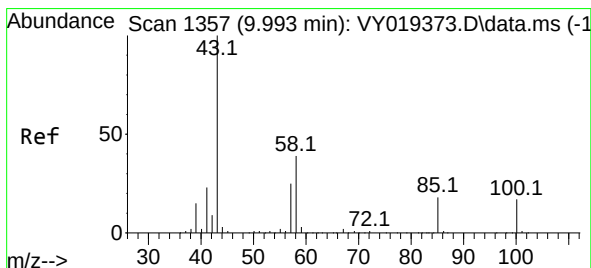
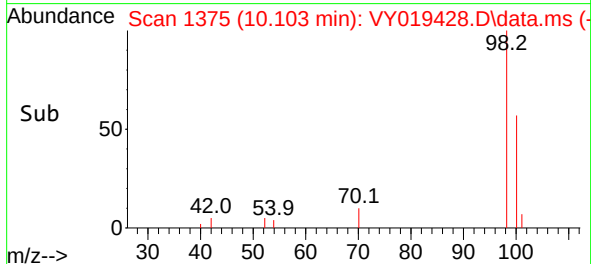
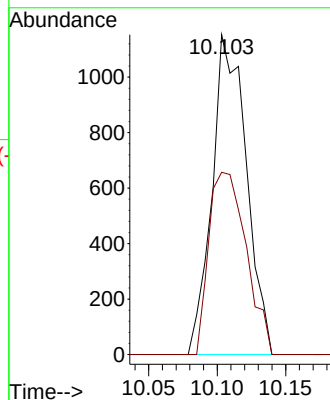
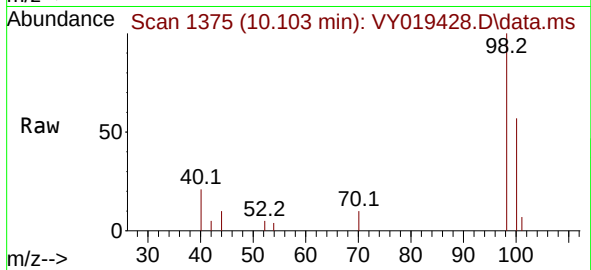
ClientSampleId :

Tgt Ion: 98 Resp: 2001

Ion Ratio Lower Upper

98 100

100 62.3 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 2.679 ug/l

RT: 9.908 min Scan# 1343

Delta R.T. -0.085 min

Lab File: VY019428.D

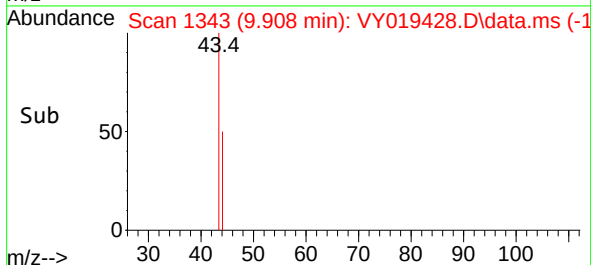
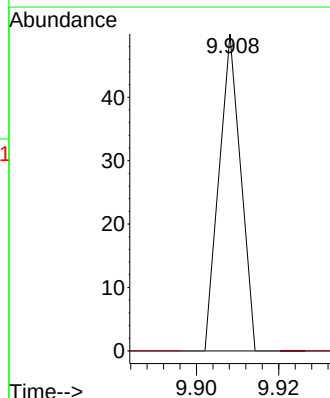
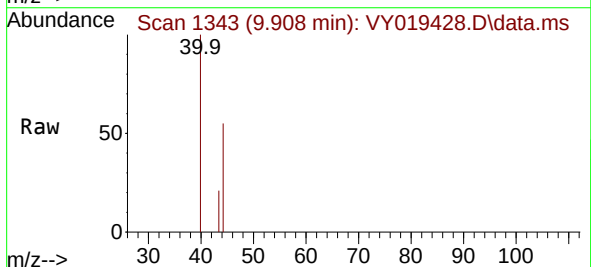
Acq: 03 Sep 2024 14:50

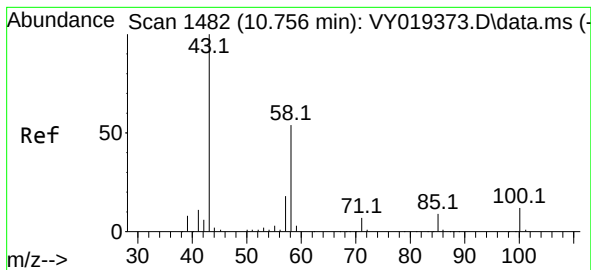
Tgt Ion: 43 Resp: 18

Ion Ratio Lower Upper

43 100

58 0.0 35.7 53.5#

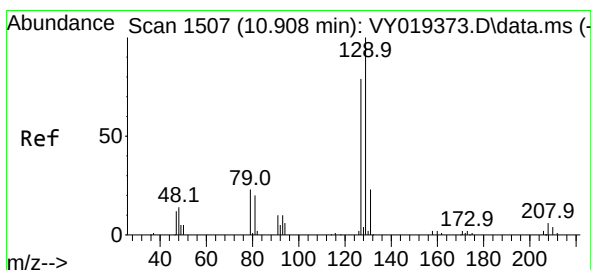
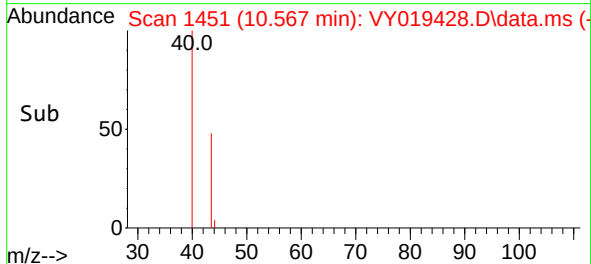
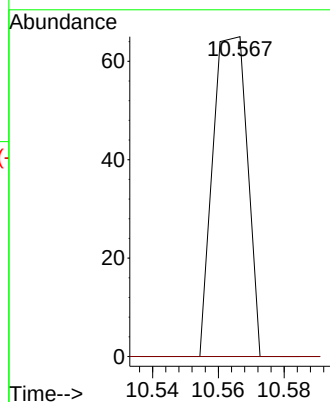
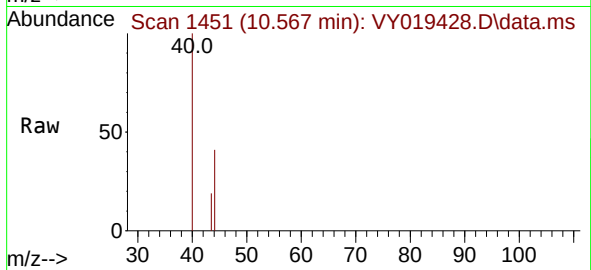




#59  
2-Hexanone  
Concen: 10.549 ug/l  
RT: 10.567 min Scan# 1482  
Delta R.T. -0.189 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

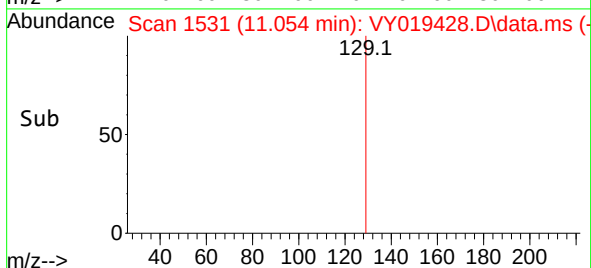
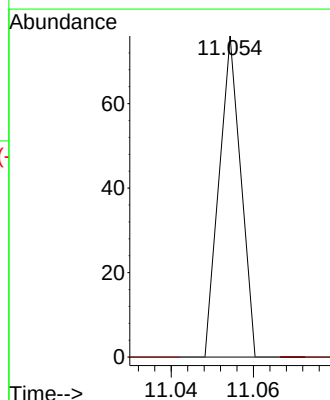
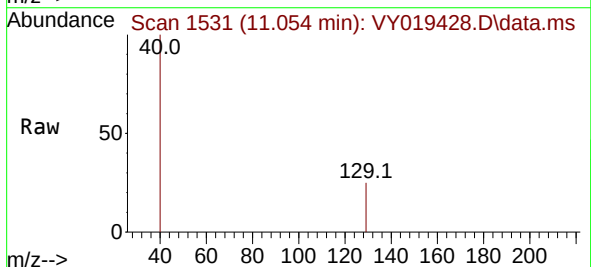
Instrument :  
MSVOA\_Y  
ClientSampleId :

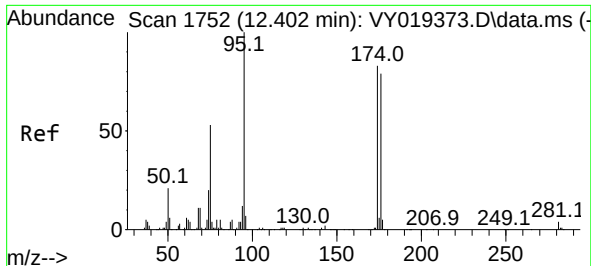
Tgt Ion: 43 Resp: 47  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.4 94.0#



#60  
Dibromochloromethane  
Concen: 2.443 ug/l  
RT: 11.054 min Scan# 1531  
Delta R.T. 0.146 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

Tgt Ion: 129 Resp: 28  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 117.0#





#62

4-Bromofluorobenzene

Concen: 10.933 ug/l

RT: 12.414 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

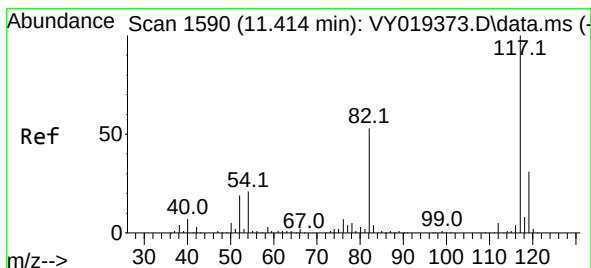
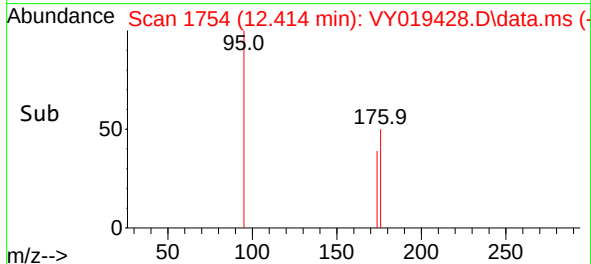
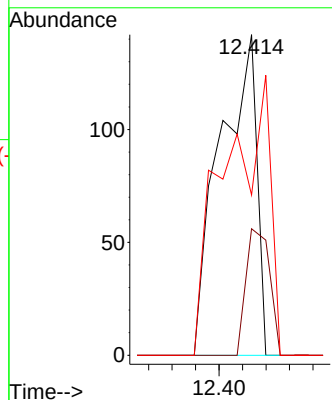
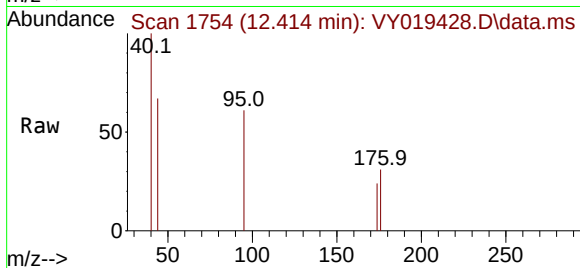
Tgt Ion: 95 Resp: 153

Ion Ratio Lower Upper

95 100

174 25.5 0.0 175.6

176 108.5 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

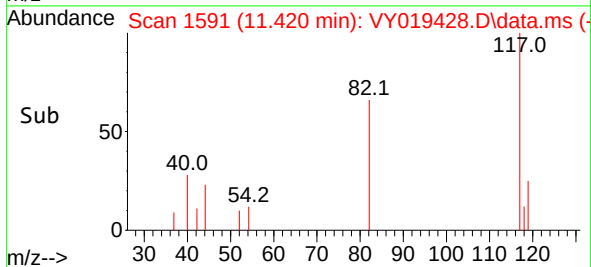
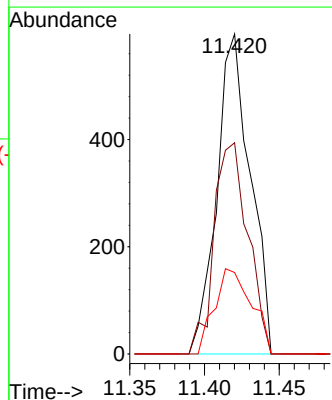
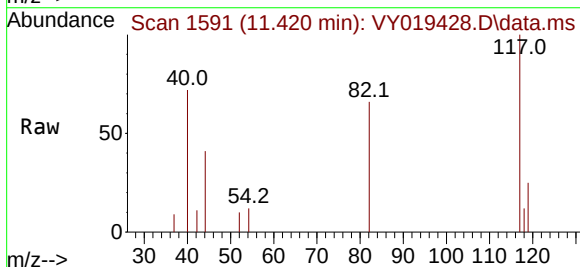
Tgt Ion: 117 Resp: 928

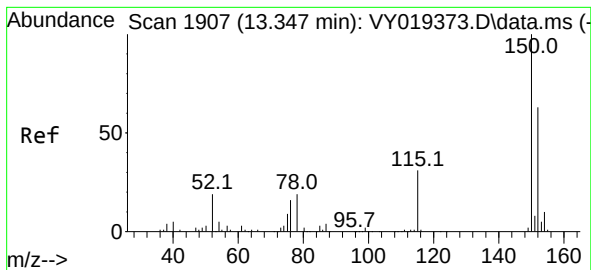
Ion Ratio Lower Upper

117 100

82 66.0 42.4 63.6#

119 25.5 25.9 38.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.359 min Scan# 1909

Delta R.T. 0.012 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

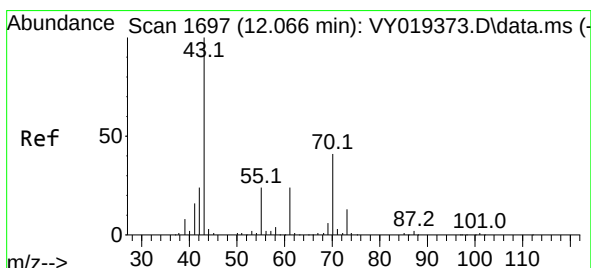
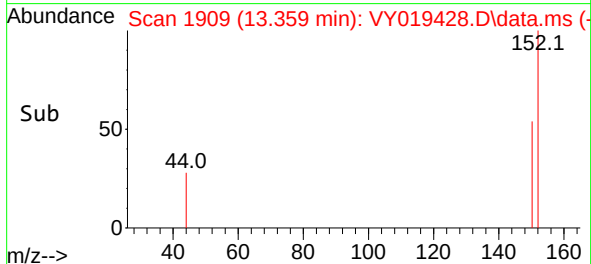
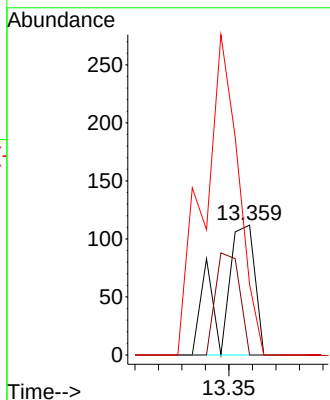
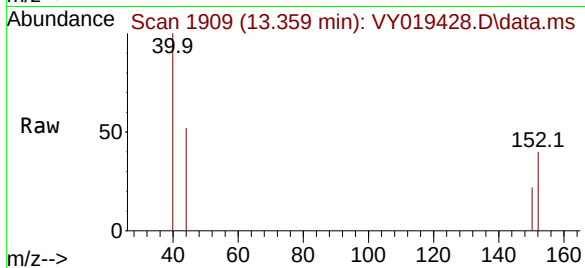
Tgt Ion:152 Resp: 110

Ion Ratio Lower Upper

152 100

115 57.3 28.2 84.7

150 258.2 0.0 345.6



#74

N-ethyl acetate

Concen: 30.831 ug/l

RT: 12.243 min Scan# 1726

Delta R.T. 0.177 min

Lab File: VY019428.D

Acq: 03 Sep 2024 14:50

Tgt Ion: 43 Resp: 52

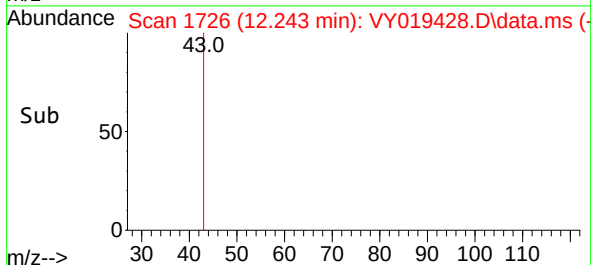
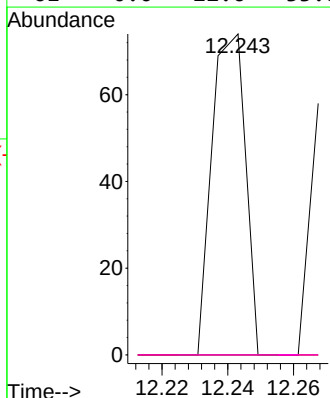
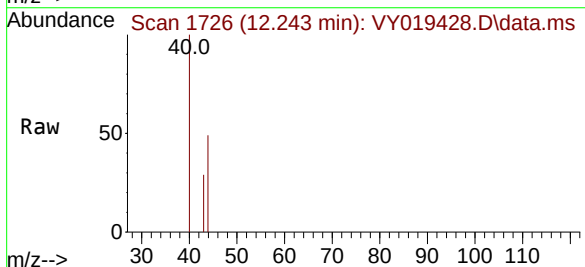
Ion Ratio Lower Upper

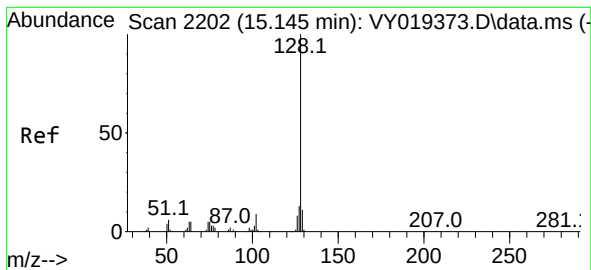
43 100

70 0.0 41.4 62.2#

55 0.0 23.3 34.9#

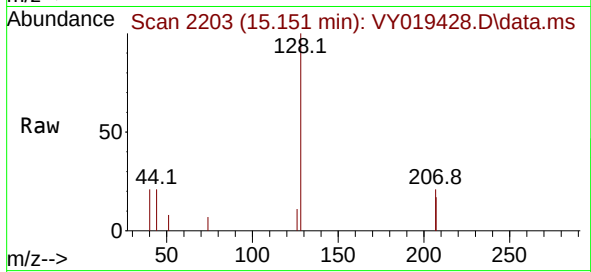
61 0.0 22.6 33.8#





#95  
Naphthalene  
Concen: 455.555 ug/l  
RT: 15.151 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VY019428.D  
Acq: 03 Sep 2024 14:50

Instrument :  
MSVOA\_Y  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1286  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 2.3   | 10.6  | 16.0# |
| 129      | 0.0   | 8.6   | 13.0# |

