

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010722\  
 Data File : VY007061.D  
 Acq On : 07 Jan 2022 18:26  
 Operator : SY/MD  
 Sample : N1065-28  
 Misc : 5.96g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 08 04:12:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010522S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 06 04:51:57 2022  
 Response via : Initial Calibration

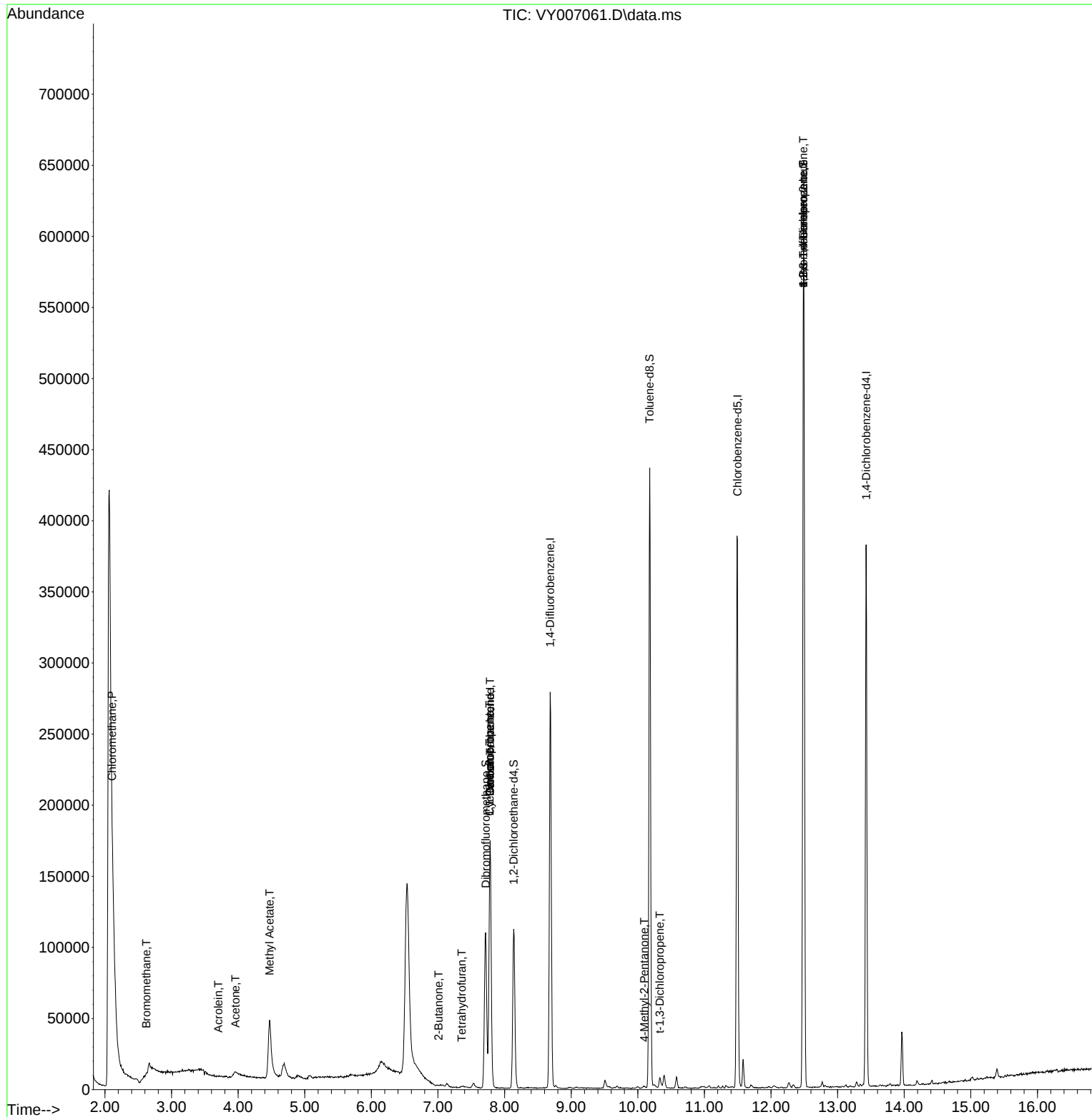
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783     | 168   | 130461   | 50.000    | ug/l       | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.685     | 114   | 242122   | 50.000    | ug/l       | -0.01    |
| 63) Chlorobenzene-d5          | 11.496    | 117   | 220736   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 92041    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136     | 65    | 92396    | 59.998    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 120.000% |          |
| 35) Dibromofluoromethane      | 7.716     | 113   | 80532    | 50.599    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 101.200% |          |
| 50) Toluene-d8                | 10.179    | 98    | 293639   | 49.656    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 99.320%  |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 103999   | 46.698    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 93.400%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.107     | 50    | 4524     | 4.872     | ug/l       | 95       |
| 5) Bromomethane               | 2.619     | 94    | 1008     | 1.196     | ug/l       | 100      |
| 13) Acrolein                  | 3.704     | 56    | 95       | 2.211     | ug/l #     | 74       |
| 16) Acetone                   | 3.960     | 43    | 8840     | 26.055    | ug/l #     | 87       |
| 18) Methyl Acetate            | 4.472     | 43    | 93820    | 64.454    | ug/l       | 98       |
| 20) Methylene Chloride        | 4.692     | 84    | 9127     | Below Cal |            | 92       |
| 25) 2-Butanone                | 7.009     | 43    | 687      | 1.406     | ug/l #     | 68       |
| 29) Tetrahydrofuran           | 7.356     | 42    | 450      | 1.240     | ug/l #     | 67       |
| 31) Cyclohexane               | 7.777     | 56    | 2961     | 1.028     | ug/l #     | 30       |
| 36) 1,1-Dichloropropene       | 7.777     | 75    | 10798    | 4.071     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.783     | 117   | 13748    | 4.955     | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.099    | 43    | 1751     | 1.347     | ug/l #     | 84       |
| 53) t-1,3-Dichloropropene     | 10.331    | 75    | 5457     | 1.954     | ug/l #     | 42       |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 56746    | 48.946    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 56746    | 89.397    | ug/l #     | 4        |
| -----                         |           |       |          |           |            |          |

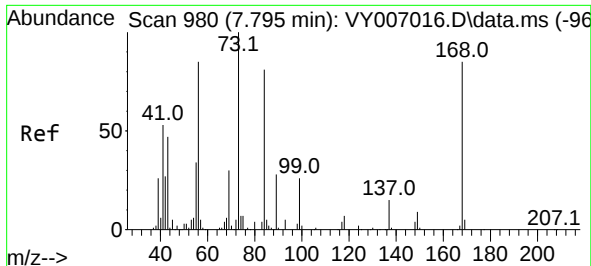
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010722\  
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MSVOA\_Y  
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Quant Time: Jan 08 04:12:16 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010522S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 06 04:51:57 2022  
Response via : Initial Calibration

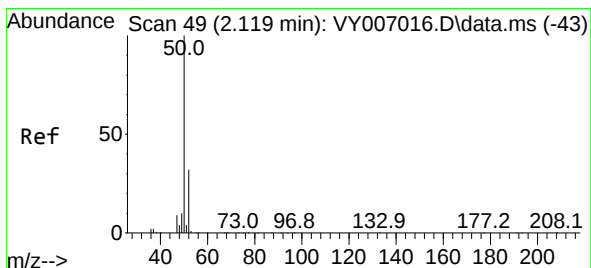
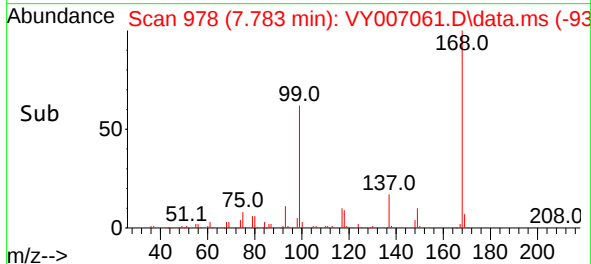
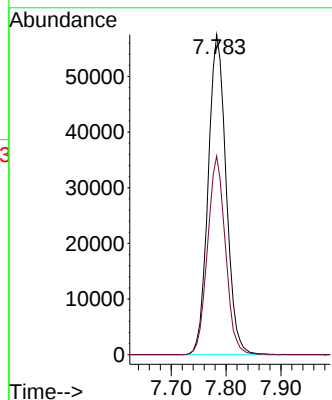
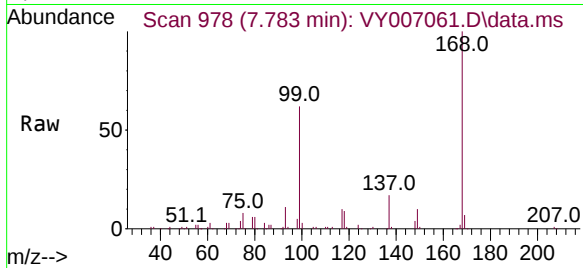




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

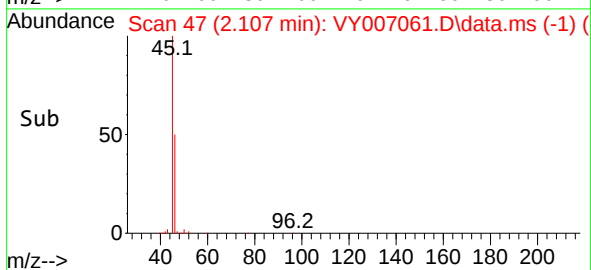
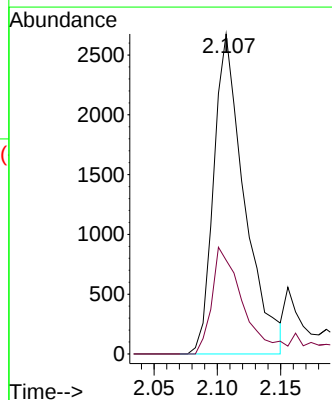
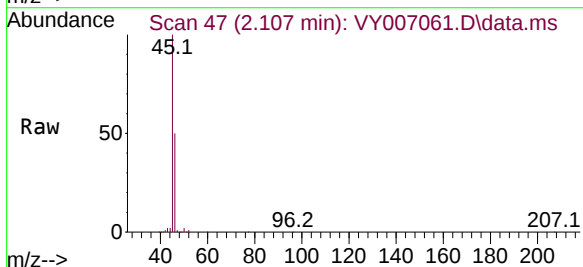
Instrument :  
MSVOA\_Y  
ClientSampleId :

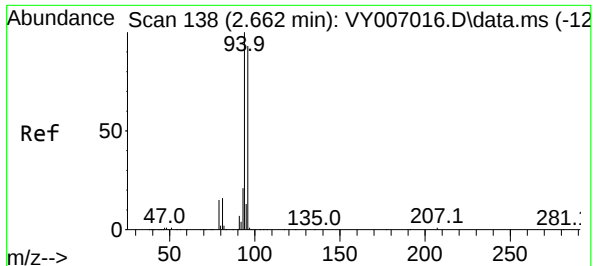
Tgt Ion:168 Resp: 130461  
Ion Ratio Lower Upper  
168 100  
99 62.0 48.9 73.3



#3  
Chloromethane  
Concen: 4.872 ug/l  
RT: 2.107 min Scan# 47  
Delta R.T. -0.012 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

Tgt Ion: 50 Resp: 4524  
Ion Ratio Lower Upper  
50 100  
52 29.3 25.8 38.8

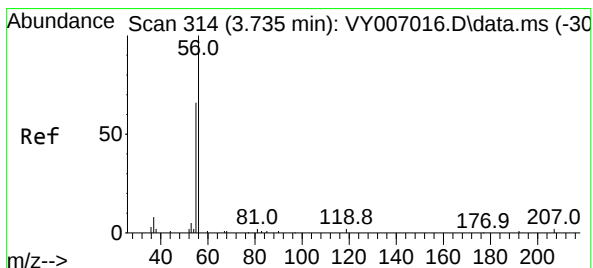
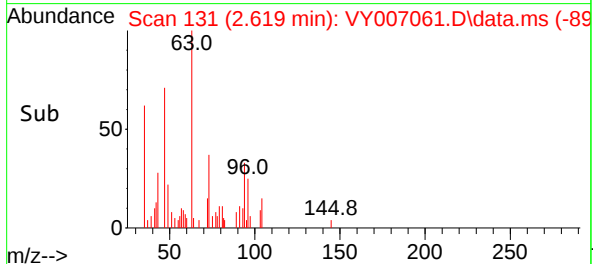
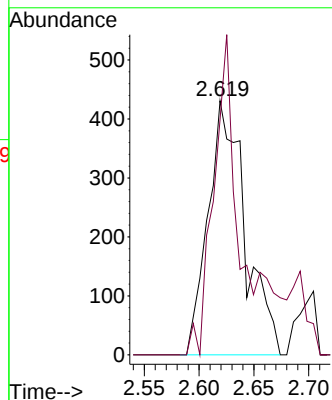
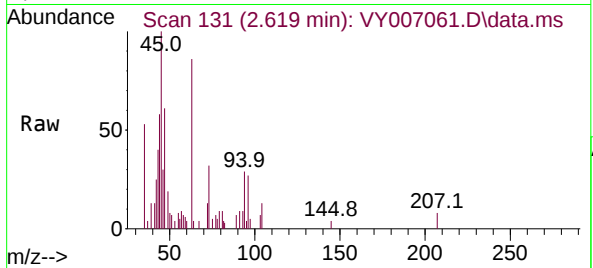




#5  
Bromomethane  
Concen: 1.196 ug/l  
RT: 2.619 min Scan# 11  
Delta R.T. -0.043 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

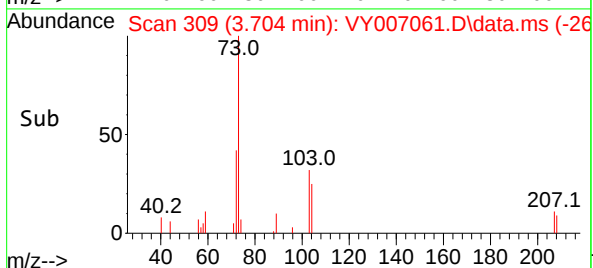
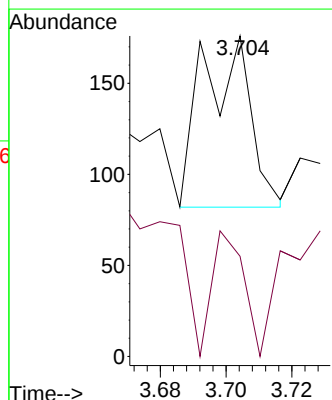
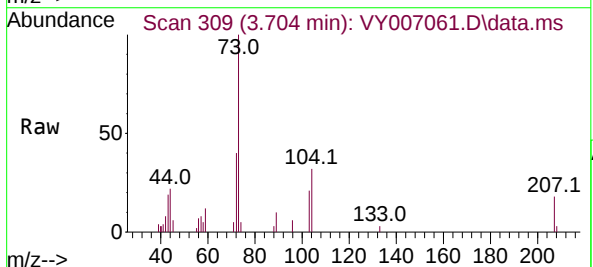
Instrument :  
MSVOA\_Y  
ClientSampleId :

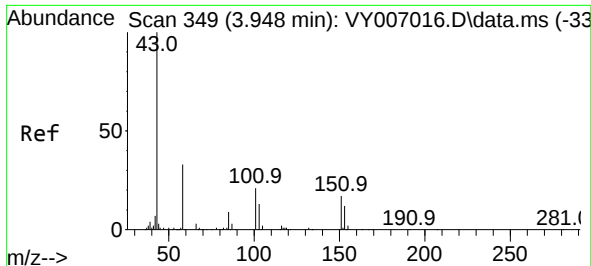
Tgt Ion: 94 Resp: 1008  
Ion Ratio Lower Upper  
94 100  
96 92.6 73.8 110.6



#13  
Acrolein  
Concen: 2.211 ug/l  
RT: 3.704 min Scan# 309  
Delta R.T. -0.031 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

Tgt Ion: 56 Resp: 95  
Ion Ratio Lower Upper  
56 100  
55 47.4 54.6 82.0#

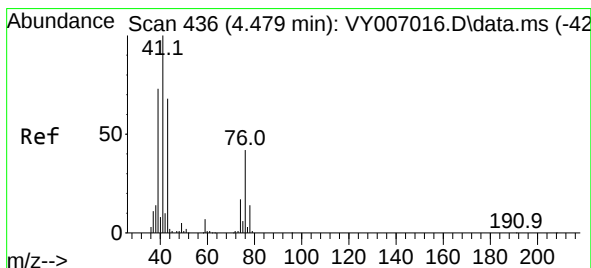
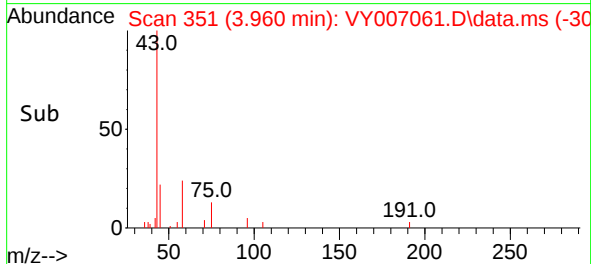
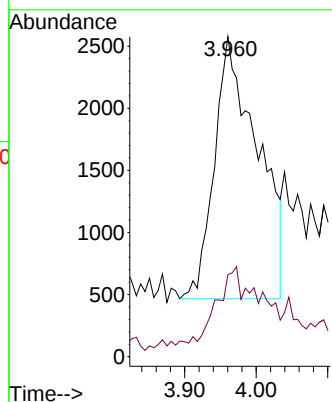
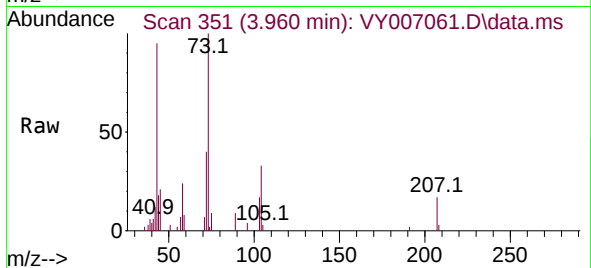




#16  
Acetone  
Concen: 26.055 ug/l  
RT: 3.960 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

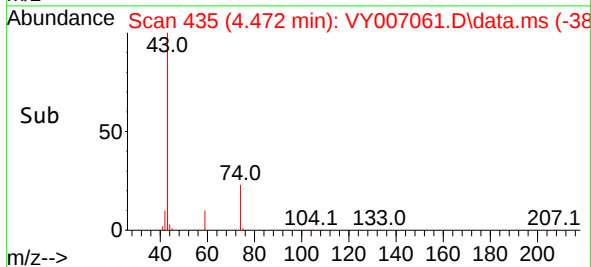
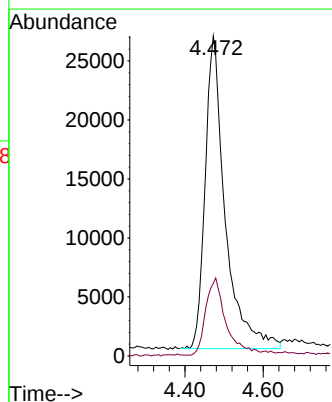
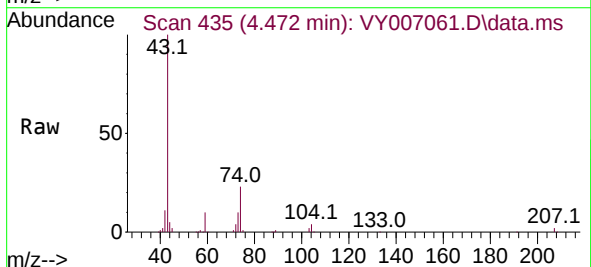
Instrument :  
MSVOA\_Y  
ClientSampleId :

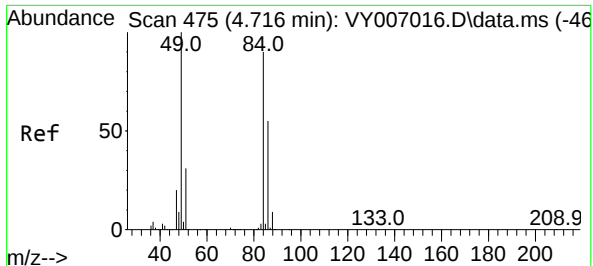
Tgt Ion: 43 Resp: 8840  
Ion Ratio Lower Upper  
43 100  
58 25.4 26.3 39.5#



#18  
Methyl Acetate  
Concen: 64.454 ug/l  
RT: 4.472 min Scan# 435  
Delta R.T. -0.006 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

Tgt Ion: 43 Resp: 93820  
Ion Ratio Lower Upper  
43 100  
74 24.8 20.9 31.3





#20

Methylene Chloride

Concen: Below Cal

RT: 4.692 min Scan# 41

Delta R.T. -0.024 min

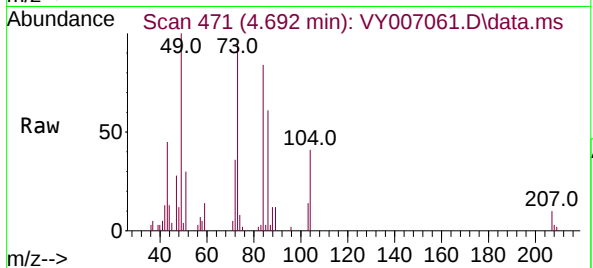
Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion: 84 Resp: 9127

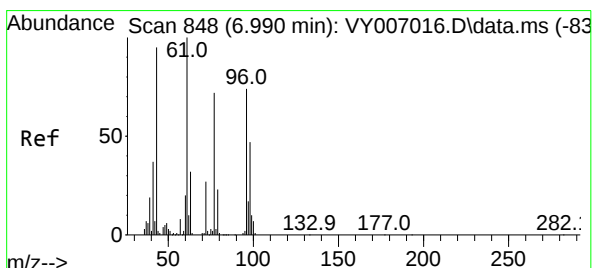
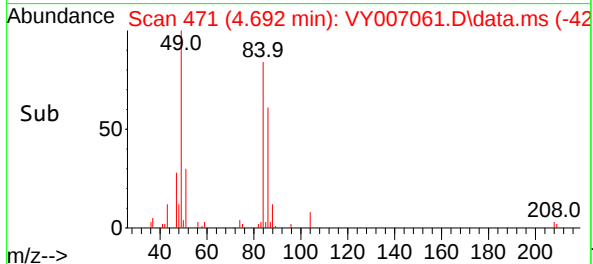
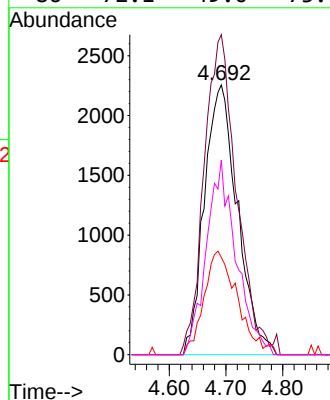
Ion Ratio Lower Upper

84 100

49 118.6 89.4 134.0

51 36.1 27.7 41.5

86 72.1 49.0 73.6



#25

2-Butanone

Concen: 1.406 ug/l

RT: 7.009 min Scan# 851

Delta R.T. 0.018 min

Lab File: VY007061.D

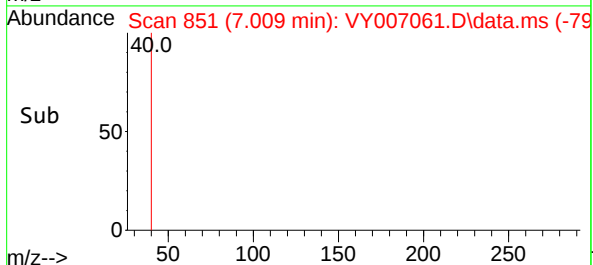
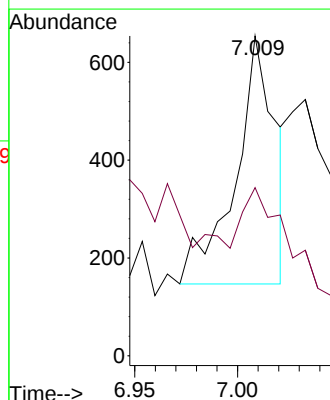
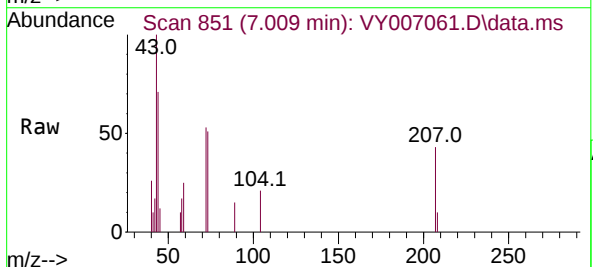
Acq: 07 Jan 2022 18:26

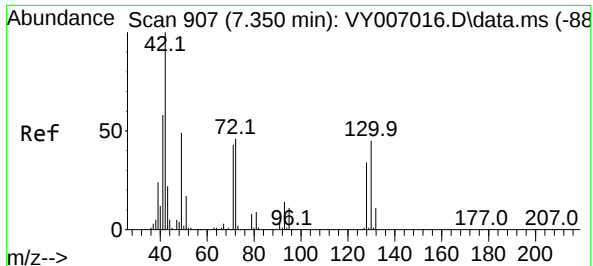
Tgt Ion: 43 Resp: 687

Ion Ratio Lower Upper

43 100

72 11.2 22.6 34.0#





#29

Tetrahydrofuran

Concen: 1.240 ug/l

RT: 7.356 min Scan# 907

Delta R.T. 0.006 min

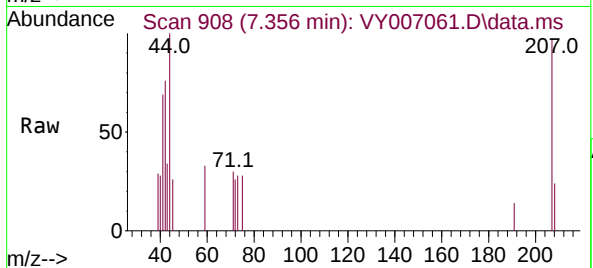
Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

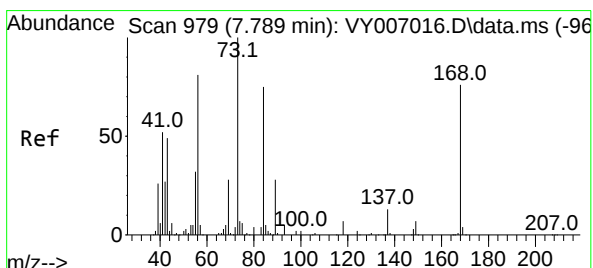
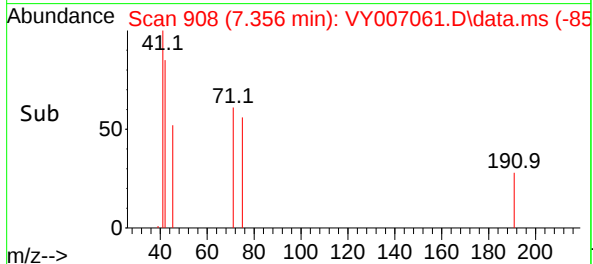
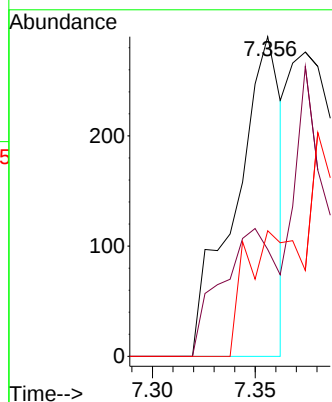
Instrument :

MSVOA\_Y

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 450      |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 47.6 37.1 55.7 |
| 71          | 0.0 34.6 52.0  |



#31

Cyclohexane

Concen: 1.028 ug/l

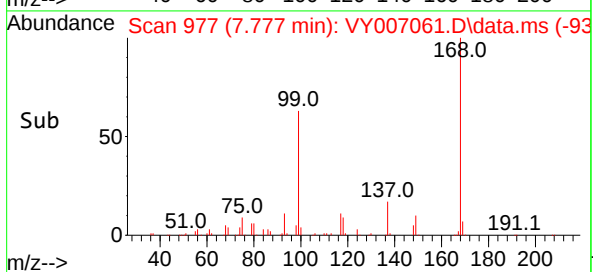
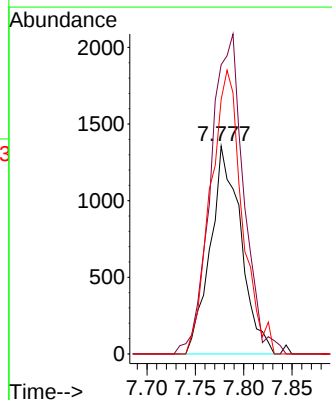
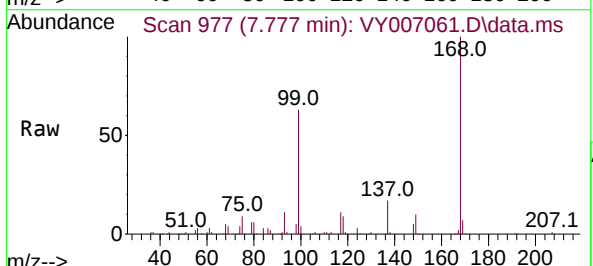
RT: 7.777 min Scan# 977

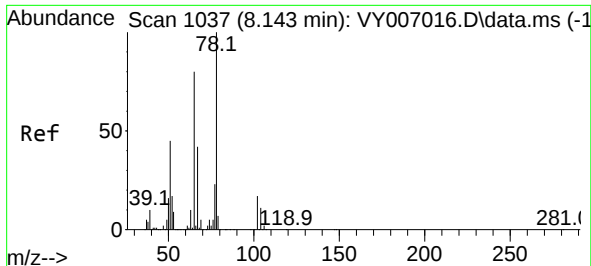
Delta R.T. -0.012 min

Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

|             |                  |
|-------------|------------------|
| Tgt Ion: 56 | Resp: 2961       |
| Ion Ratio   | Lower Upper      |
| 56          | 100              |
| 69          | 135.3 27.8 41.6  |
| 84          | 122.4 74.1 111.1 |





#33

1,2-Dichloroethane-d4

Concen: 59.998 ug/l

RT: 8.136 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

Instrument :

MSVOA\_Y

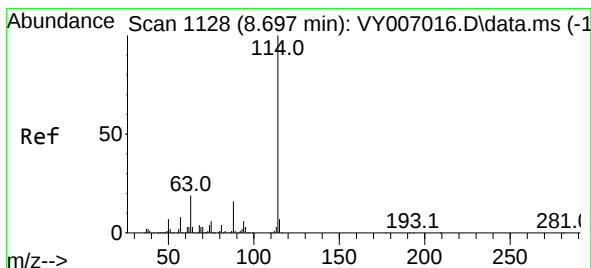
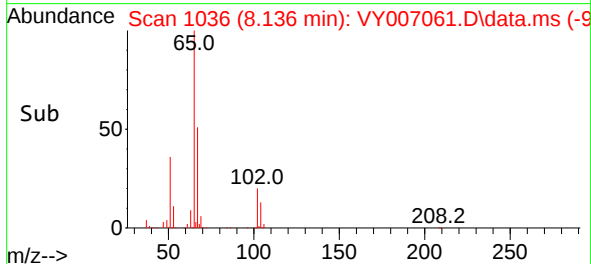
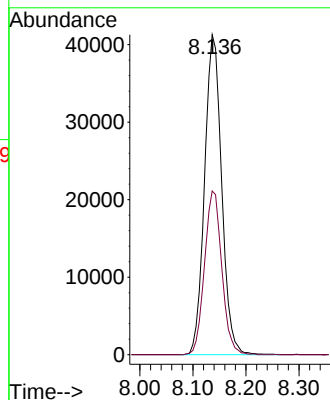
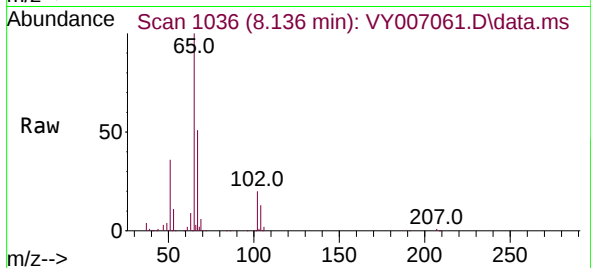
ClientSampleId :

Tgt Ion: 65 Resp: 92396

Ion Ratio Lower Upper

65 100

67 51.7 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.012 min

Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

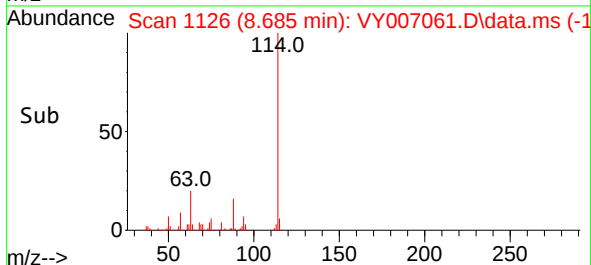
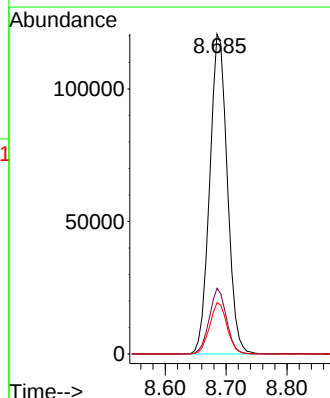
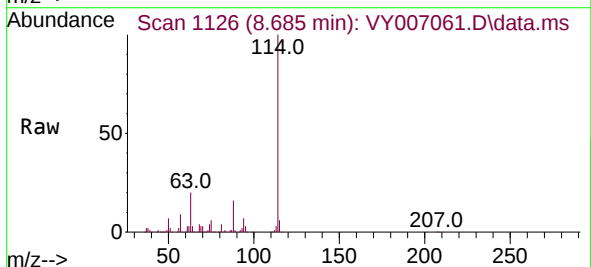
Tgt Ion:114 Resp: 242122

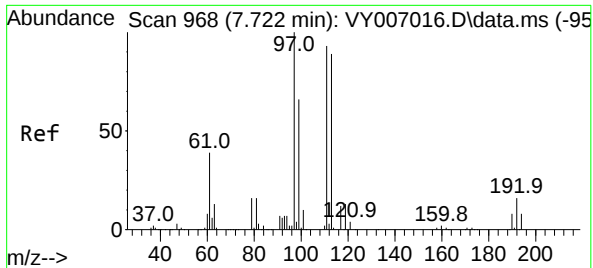
Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.6

88 16.0 0.0 31.8

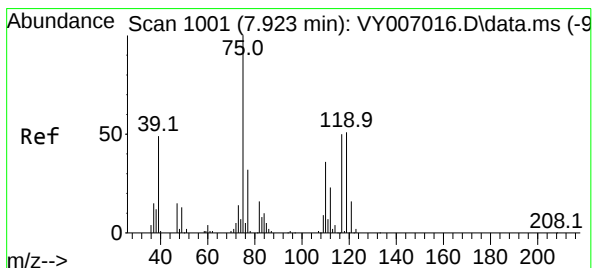
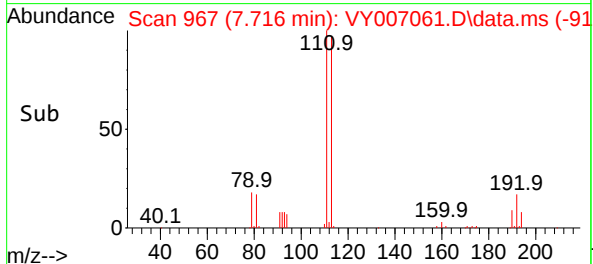
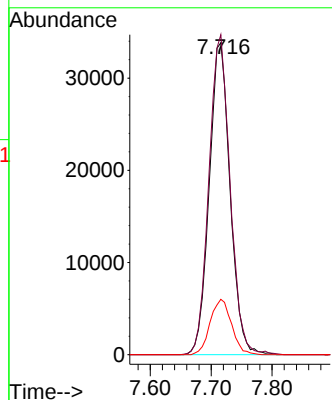
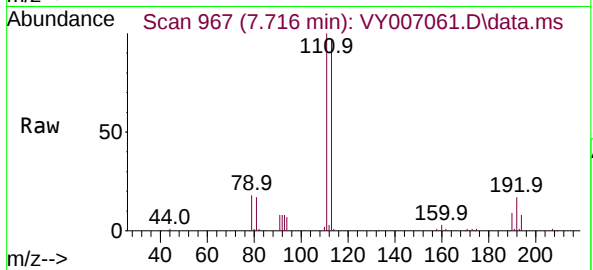




#35  
Dibromofluoromethane  
Concen: 50.599 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

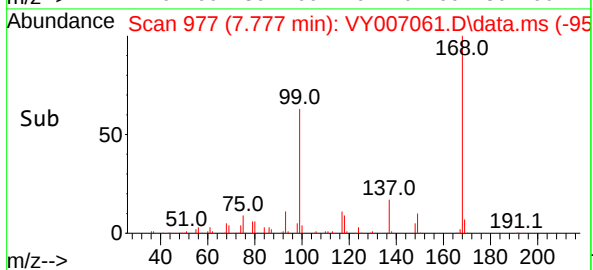
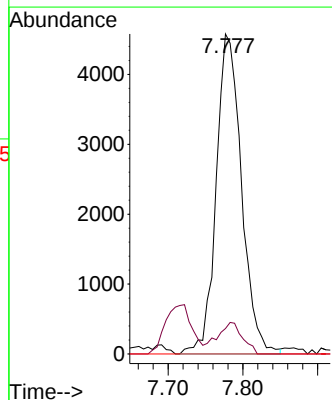
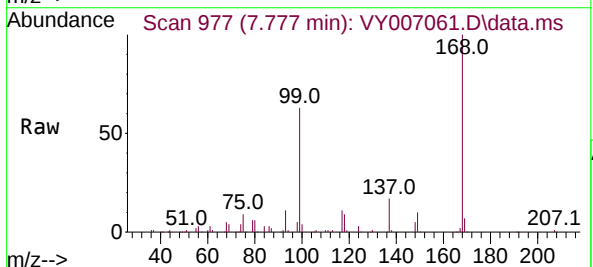
Instrument :  
MSVOA\_Y  
ClientSampleId :

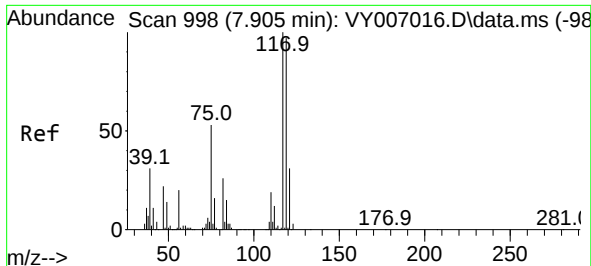
Tgt Ion:113 Resp: 80532  
Ion Ratio Lower Upper  
113 100  
111 104.2 81.9 122.9  
192 18.2 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 4.071 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.146 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

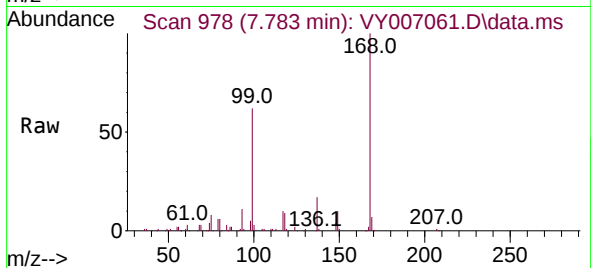
Tgt Ion: 75 Resp: 10798  
Ion Ratio Lower Upper  
75 100  
110 9.9 18.0 54.0#  
77 0.0 25.4 38.2#



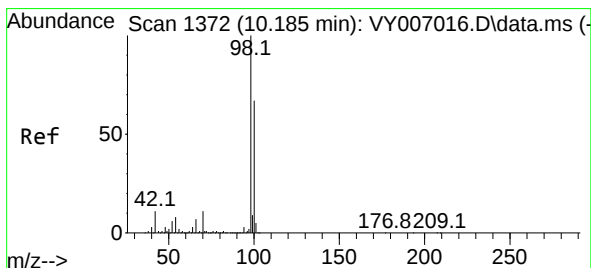
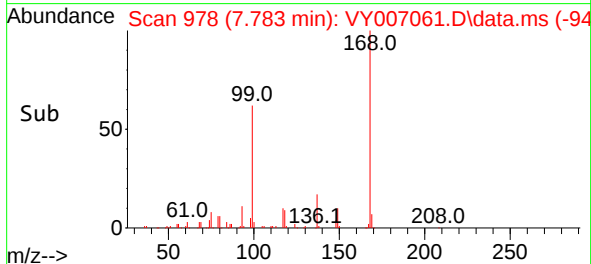
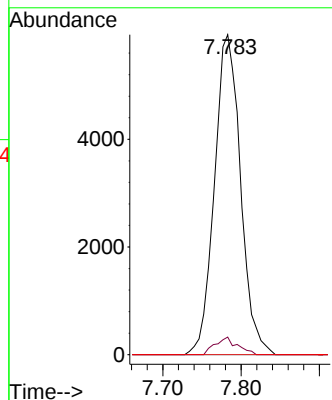


#38  
Carbon Tetrachloride  
Concen: 4.955 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

Instrument :  
MSVOA\_Y  
ClientSampleId :

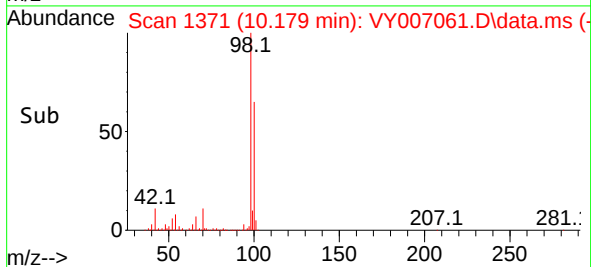
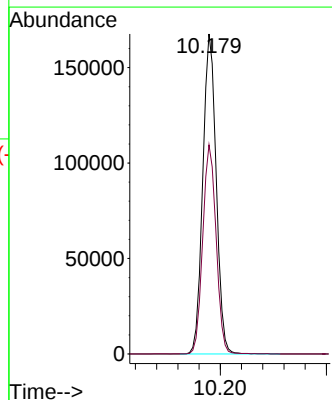
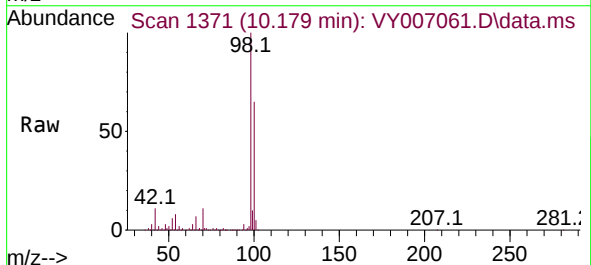


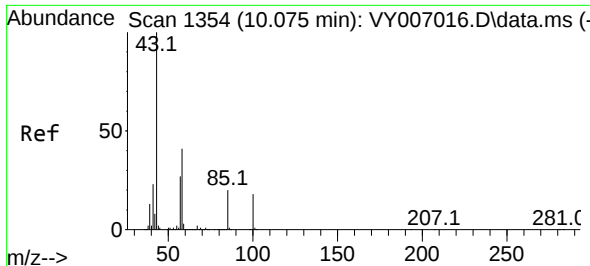
Tgt Ion:117 Resp: 13748  
Ion Ratio Lower Upper  
117 100  
119 5.5 77.7 116.5#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 49.656 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.006 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

Tgt Ion: 98 Resp: 293639  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.8 79.2

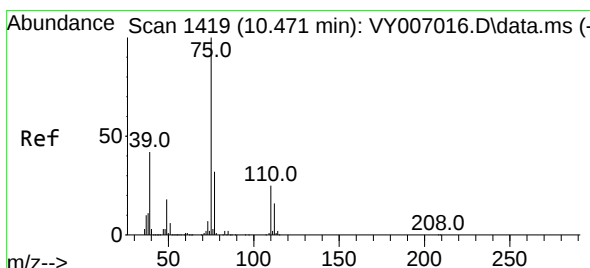
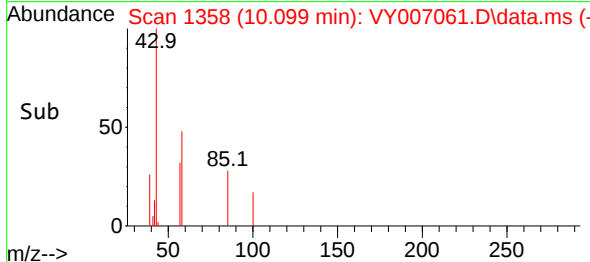
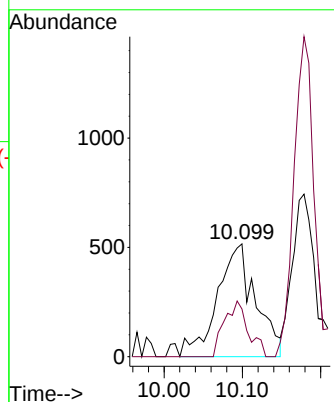
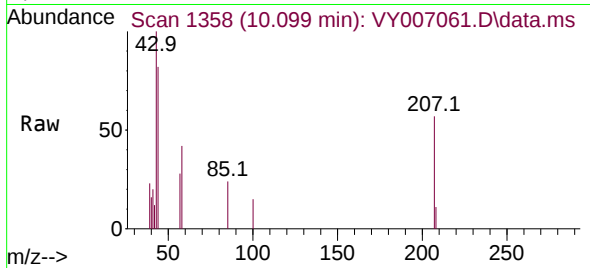




#51  
4-Methyl-2-Pentanone  
Concen: 1.347 ug/l  
RT: 10.099 min Scan# 1358  
Delta R.T. 0.024 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

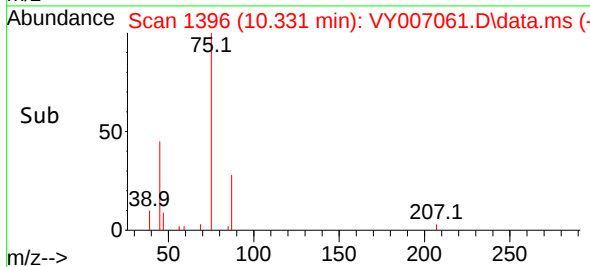
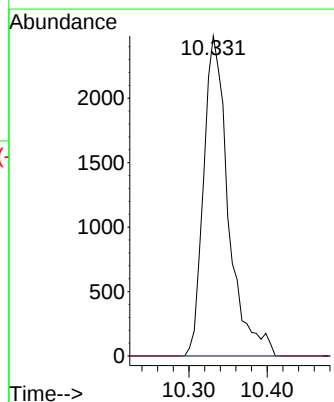
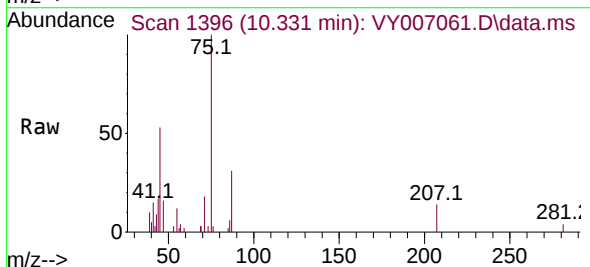
Instrument :  
MSVOA\_Y  
ClientSampleId :

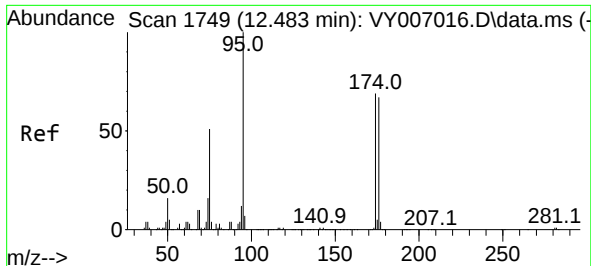
Tgt Ion: 43 Resp: 1751  
Ion Ratio Lower Upper  
43 100  
58 30.7 32.7 49.1#



#53  
t-1,3-Dichloropropene  
Concen: 1.954 ug/l  
RT: 10.331 min Scan# 1396  
Delta R.T. -0.140 min  
Lab File: VY007061.D  
Acq: 07 Jan 2022 18:26

Tgt Ion: 75 Resp: 5457  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.8 38.8#





#62

4-Bromofluorobenzene

Concen: 46.698 ug/l

RT: 12.483 min Scan# 11

Delta R.T. -0.000 min

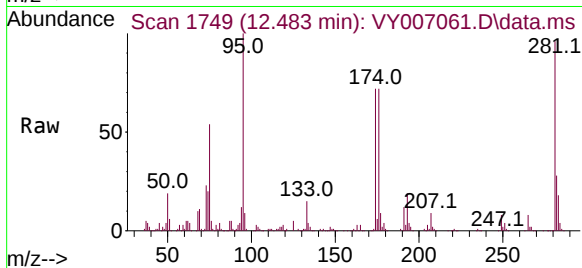
Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

Instrument :

MSVOA\_Y

ClientSampleId :



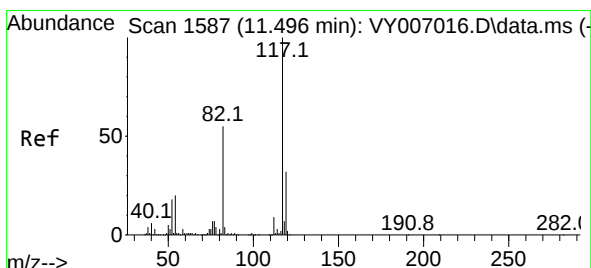
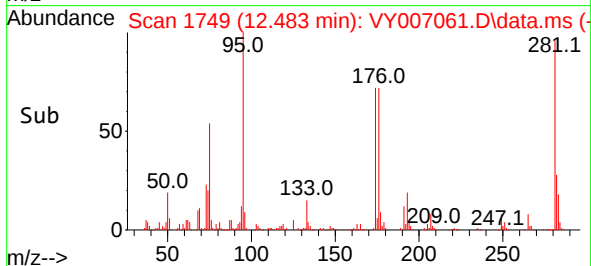
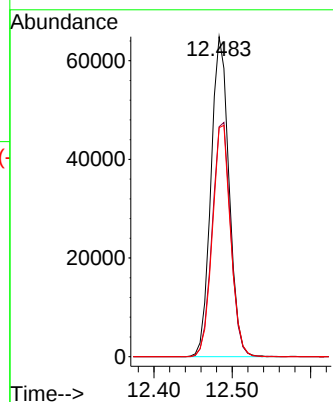
Tgt Ion: 95 Resp: 103999

Ion Ratio Lower Upper

95 100

174 74.2 0.0 144.6

176 72.7 0.0 141.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 1587

Delta R.T. -0.000 min

Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

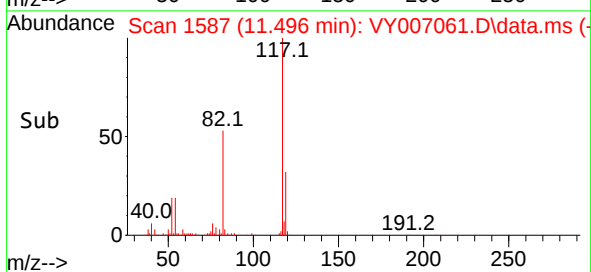
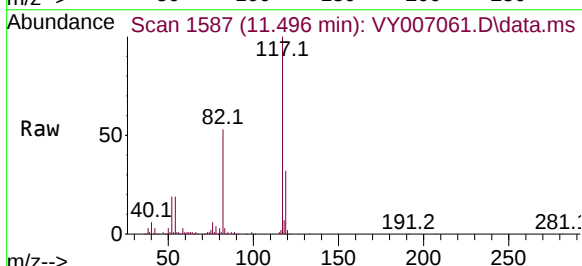
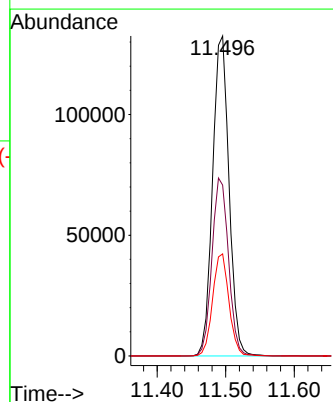
Tgt Ion: 117 Resp: 220736

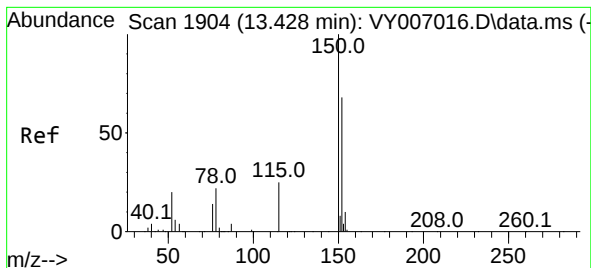
Ion Ratio Lower Upper

117 100

82 53.4 44.1 66.1

119 31.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VY007061.D

Acq: 07 Jan 2022 18:26

Instrument :

MSVOA\_Y

ClientSampleId :

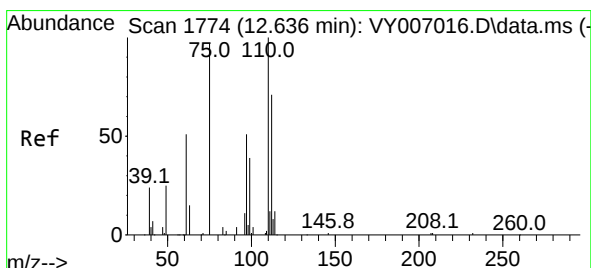
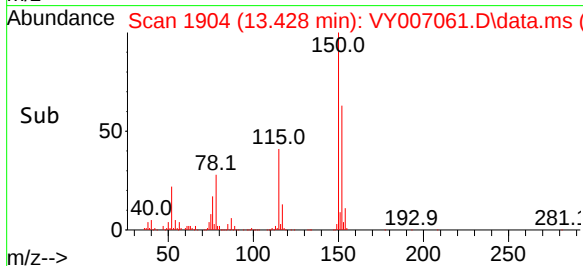
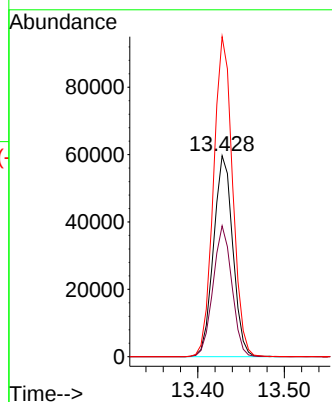
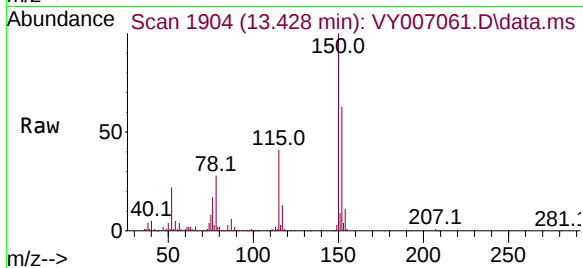
Tgt Ion:152 Resp: 92041

Ion Ratio Lower Upper

152 100

115 63.7 31.9 95.5

150 157.8 0.0 358.0



#76

1,2,3-Trichloropropane

Concen: 48.946 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY007061.D

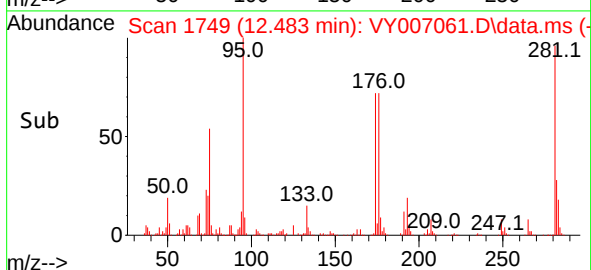
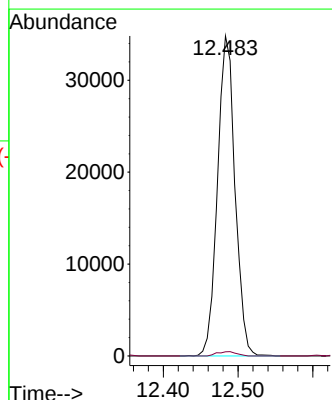
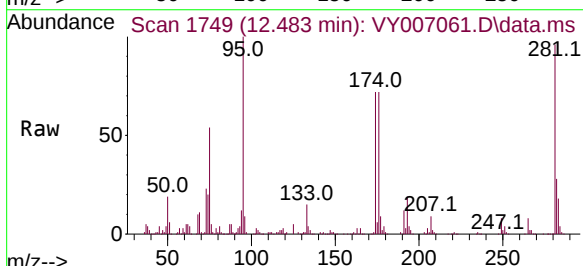
Acq: 07 Jan 2022 18:26

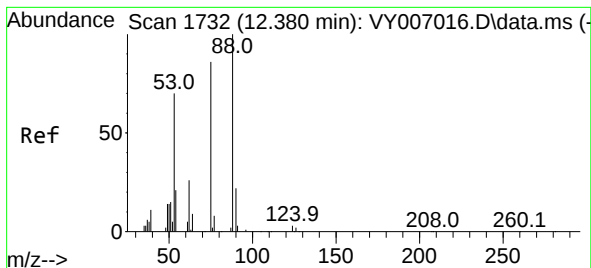
Tgt Ion: 75 Resp: 56746

Ion Ratio Lower Upper

75 100

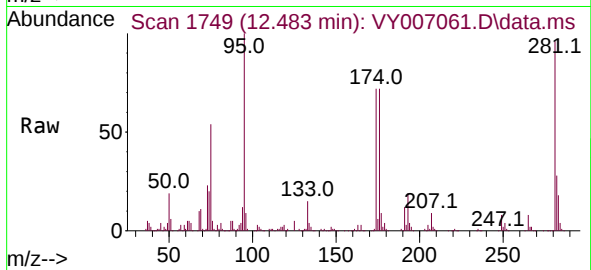
77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 89.397 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY007061.D  
 Acq: 07 Jan 2022 18:26

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



Tgt Ion: 75 Resp: 56746  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.2 108.4#  
 89 2.4 0.0 0.0#

