

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121620\  
 Data File : VY003809.D  
 Acq On : 16 Dec 2020 16:58  
 Operator : SY/MD  
 Sample : L5036-07  
 Misc : 5.89G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Dec 17 02:54:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y121520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 16 05:00:50 2020  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) Pentafluorobenzene      | 7.795  | 168  | 142131   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.697  | 114  | 240949   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 205231   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 82224    | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 33) 1,2-Dichloroethane-d4   | 8.149  | 65    | 82410    | 46.75    | ug/l | 0.00   |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 93.50% |
| 35) Dibromofluoromethane    | 7.722  | 113   | 71217    | 40.86    | ug/l | 0.00   |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 81.72% |
| 50) Toluene-d8              | 10.179 | 98    | 281314   | 40.77    | ug/l | 0.00   |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 81.54% |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 78251    | 33.00    | ug/l | 0.00   |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 66.00% |

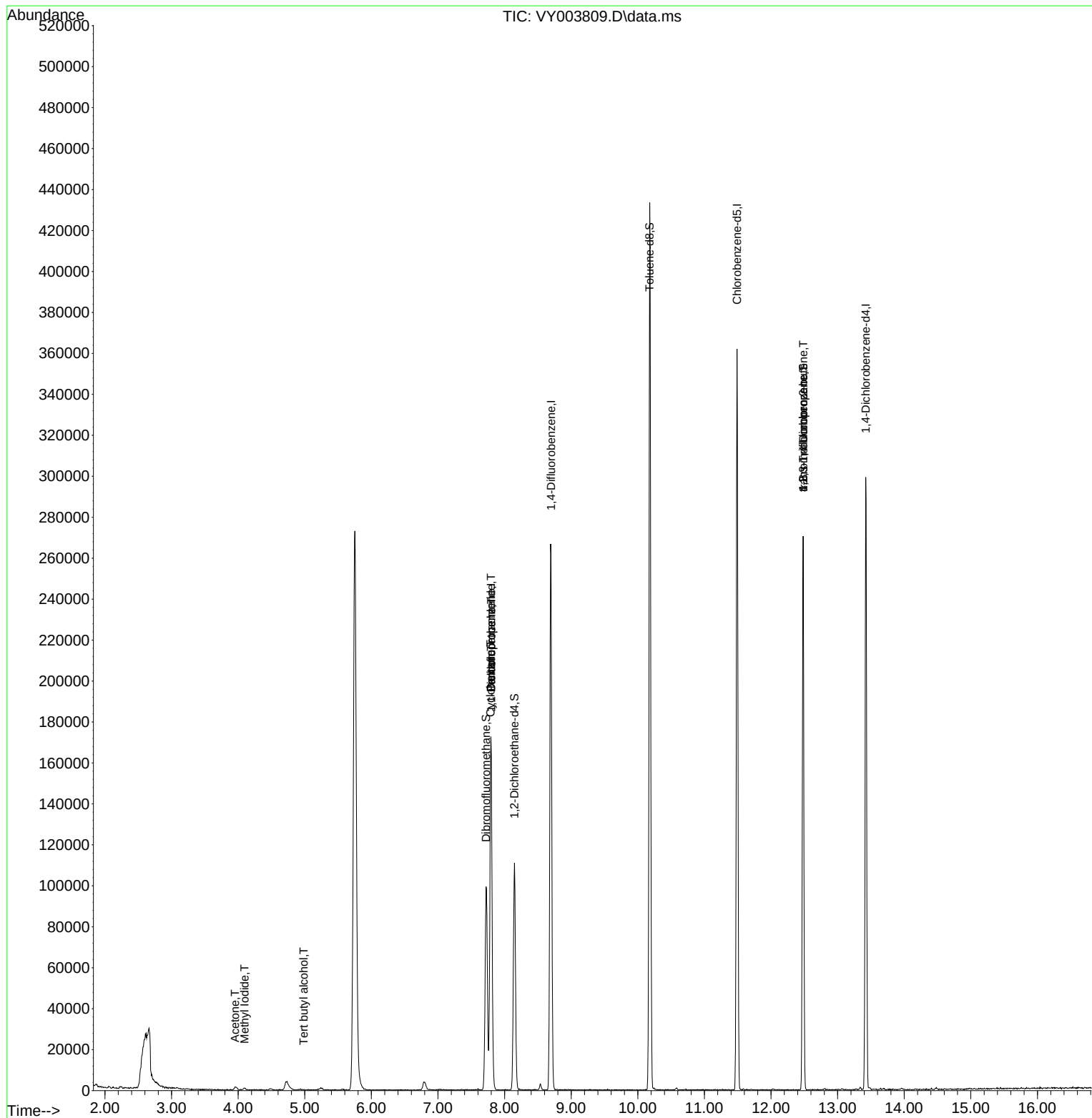
| Target Compounds              |        |     |       |           |      | Qvalue |
|-------------------------------|--------|-----|-------|-----------|------|--------|
| 5) Bromomethane               | 2.662  | 94  | 214   | Below Cal | #    | 56     |
| 10) Methyl Iodide             | 4.094  | 142 | 1475  | 4.43      | ug/l | 91     |
| 11) Tert butyl alcohol        | 4.984  | 59  | 218   | 1.23      | ug/l | # 73   |
| 16) Acetone                   | 3.954  | 43  | 2581  | 6.37      | ug/l | # 79   |
| 20) Methylene Chloride        | 4.735  | 84  | 3132  | Below Cal | #    | 83     |
| 31) Cyclohexane               | 7.789  | 56  | 3261  | 1.03      | ug/l | # 1    |
| 36) 1,1-Dichloropropene       | 7.801  | 75  | 9852  | 3.64      | ug/l | # 50   |
| 38) Carbon Tetrachloride      | 7.795  | 117 | 12990 | 4.80      | ug/l | # 16   |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75  | 39645 | 40.70     | ug/l | # 100  |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75  | 39645 | 77.07     | ug/l | # 5    |

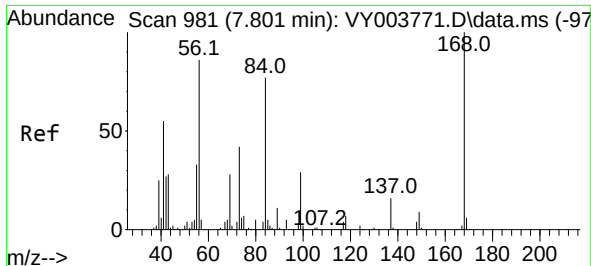
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Dec 17 02:54:28 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y121520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 16 05:00:50 2020  
Response via : Initial Calibration

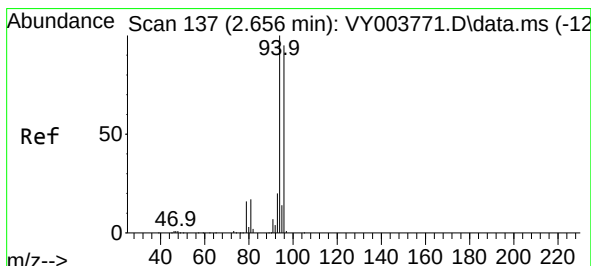
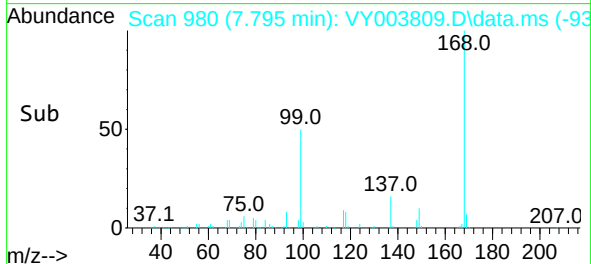
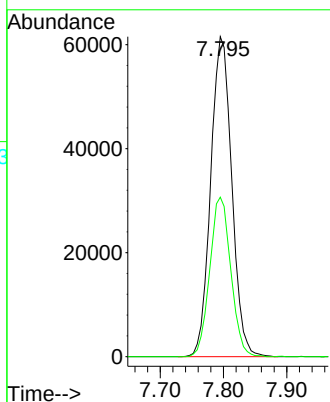
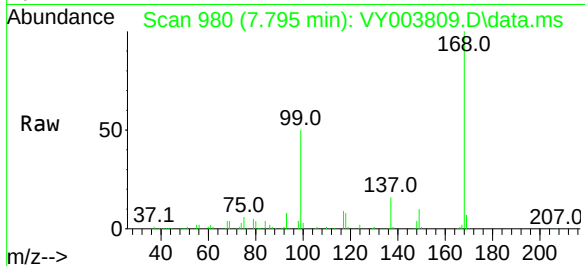




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.006 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

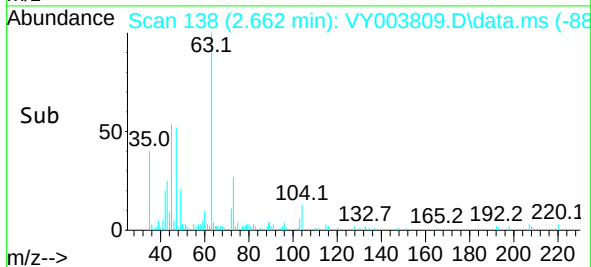
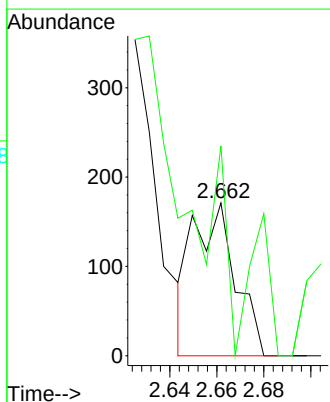
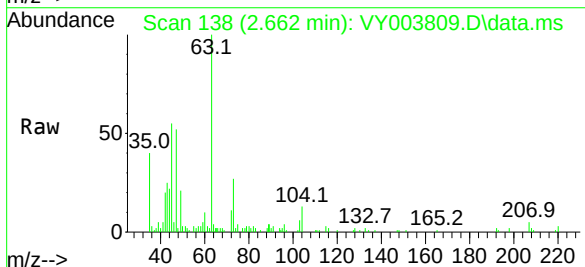
Instrument :  
MSVOA\_Y  
ClientSampleId :

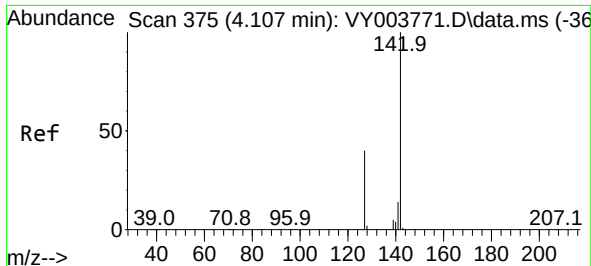
Tgt Ion:168 Resp: 142131  
Ion Ratio Lower Upper  
168 100  
99 49.9 41.9 62.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 138  
Delta R.T. 0.006 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

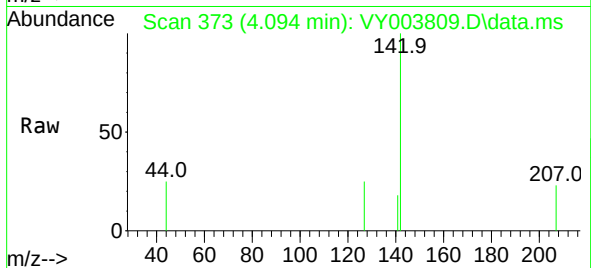
Tgt Ion: 94 Resp: 214  
Ion Ratio Lower Upper  
94 100  
96 137.4 75.9 113.9#



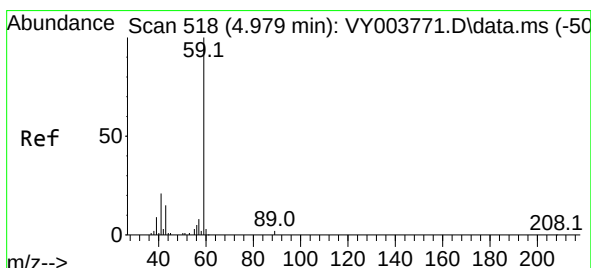
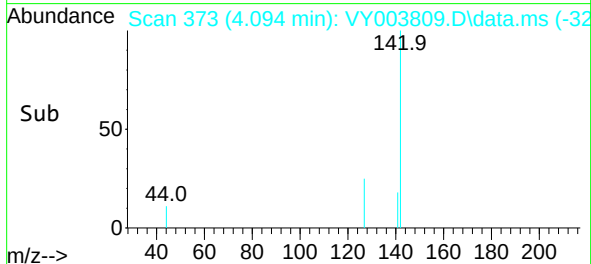
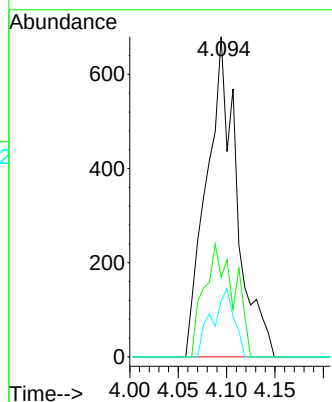


#10  
Methyl Iodide  
Concen: 4.43 ug/l  
RT: 4.094 min Scan# 373  
Delta R.T. -0.013 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

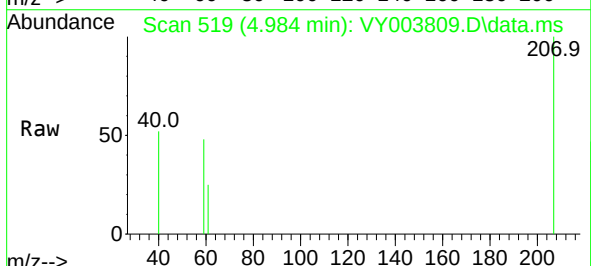
Instrument :  
MSVOA\_Y  
ClientSampleId :



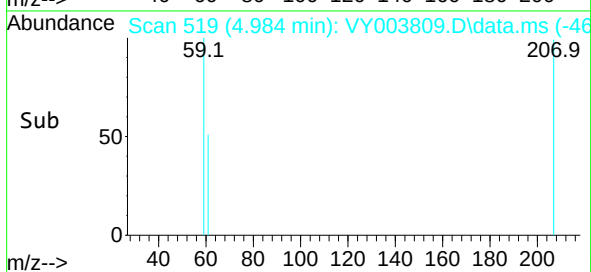
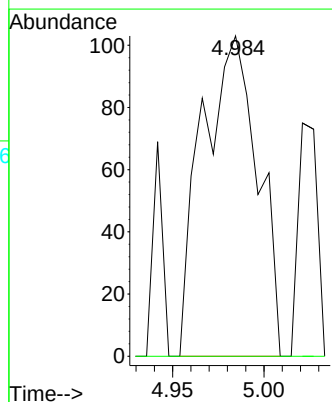
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 1475  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 35.1  | 33.7  | 50.5  |
| 141      | 15.6  | 11.4  | 17.2  |

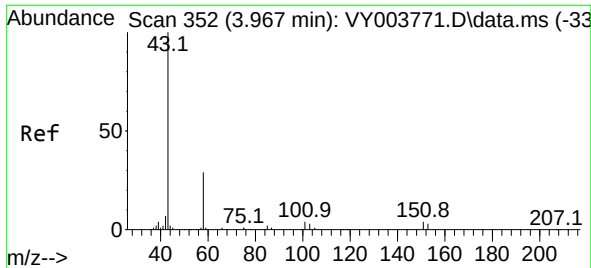


#11  
Tert butyl alcohol  
Concen: 1.23 ug/l  
RT: 4.984 min Scan# 519  
Delta R.T. 0.006 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 218   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 0.0   | 8.0   | 12.0  |

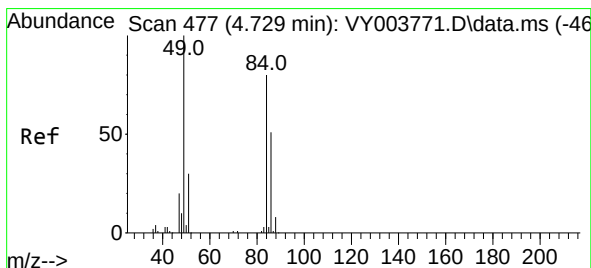
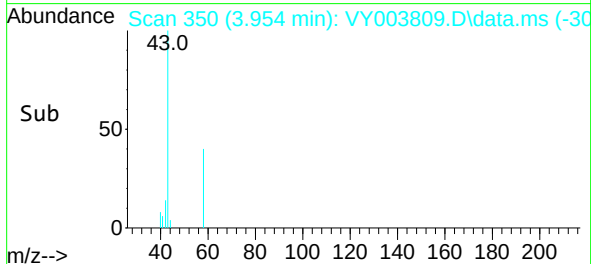
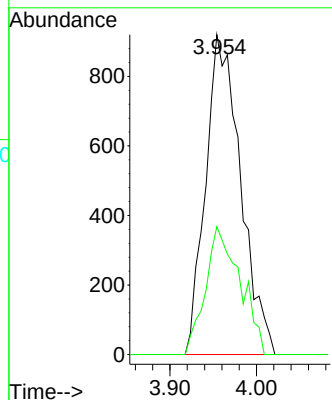
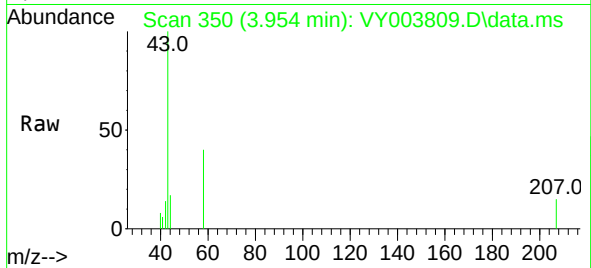




#16  
Acetone  
Concen: 6.37 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. -0.012 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

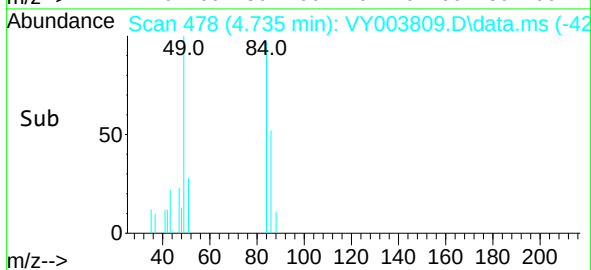
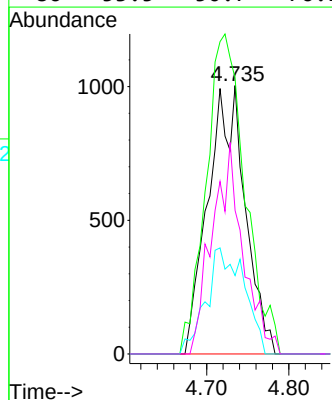
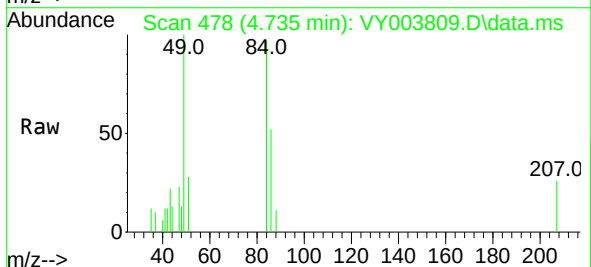
Instrument :  
MSVOA\_Y  
ClientSampled :

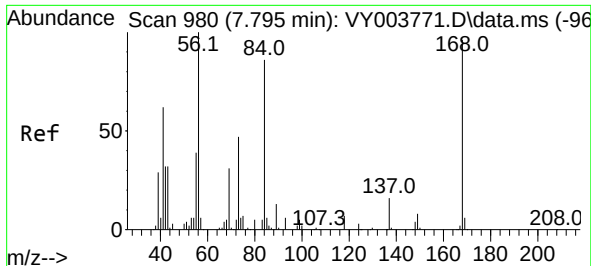
Tgt Ion: 43 Resp: 2581  
Ion Ratio Lower Upper  
43 100  
58 40.0 22.9 34.3#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.735 min Scan# 478  
Delta R.T. 0.006 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

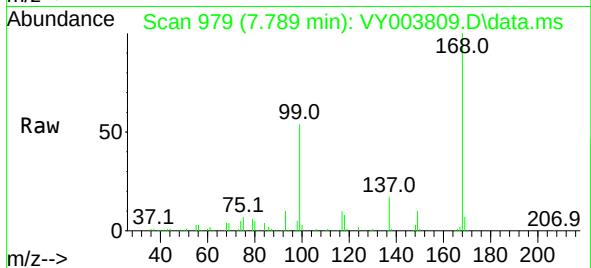
Tgt Ion: 84 Resp: 3132  
Ion Ratio Lower Upper  
84 100  
49 102.8 100.4 150.6  
51 29.2 30.3 45.5#  
86 53.5 50.7 76.1



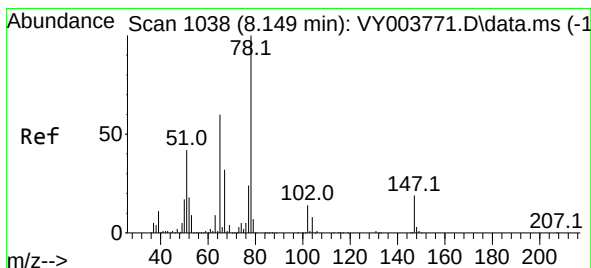
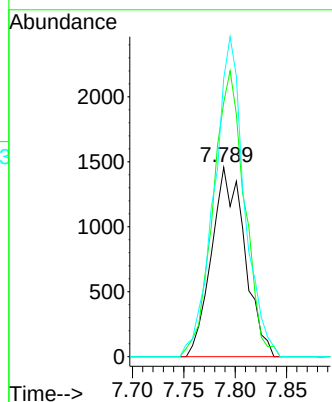
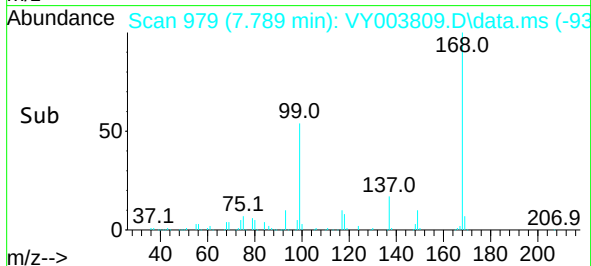


#31  
Cyclohexane  
Concen: 1.03 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.006 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

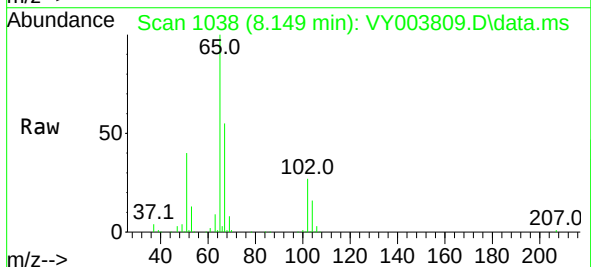
Instrument :  
MSVOA\_Y  
ClientSampleId :



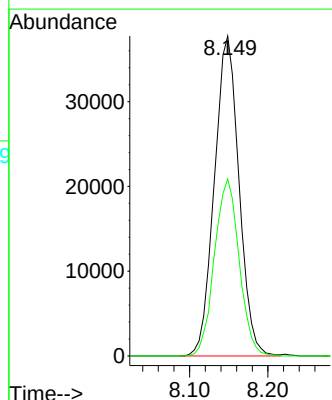
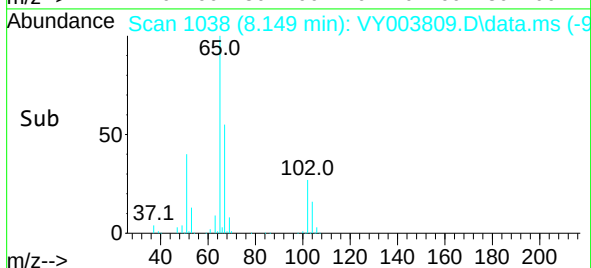
Tgt Ion: 56 Resp: 3261  
Ion Ratio Lower Upper  
56 100  
69 134.3 25.0 37.4#  
84 146.9 68.5 102.7#

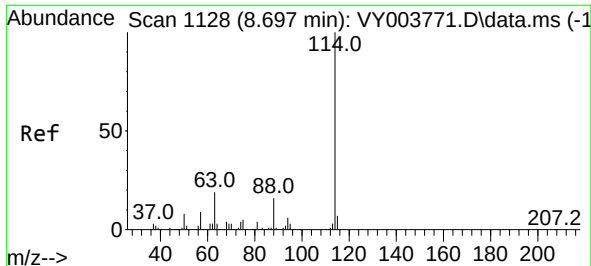


#33  
1,2-Dichloroethane-d4  
Concen: 46.75 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. -0.000 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58



Tgt Ion: 65 Resp: 82410  
Ion Ratio Lower Upper  
65 100  
67 55.5 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.697 min Scan# 1128

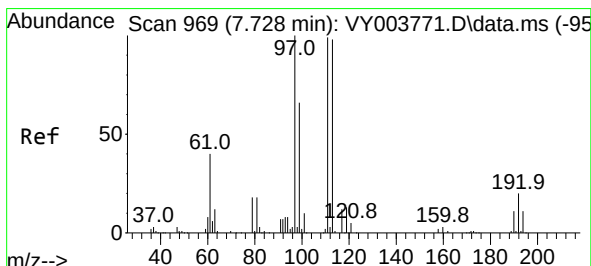
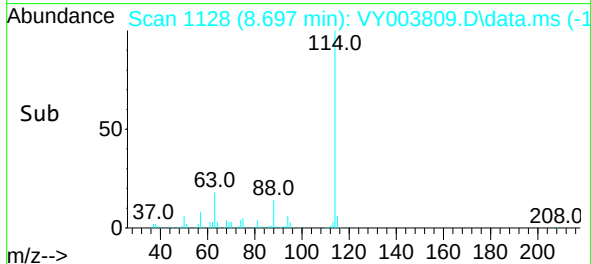
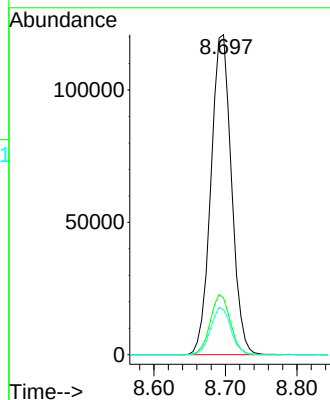
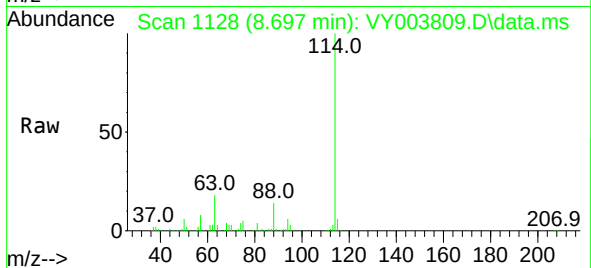
Delta R.T. -0.000 min

Lab File: VY003809.D

Acq: 16 Dec 2020 16:58

Instrument :  
MSVOA\_Y  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 240949 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 17.7  | 0.0   | 38.4   |
| 88       | 14.0  | 0.0   | 31.8   |



#35

Dibromofluoromethane

Concen: 40.86 ug/l

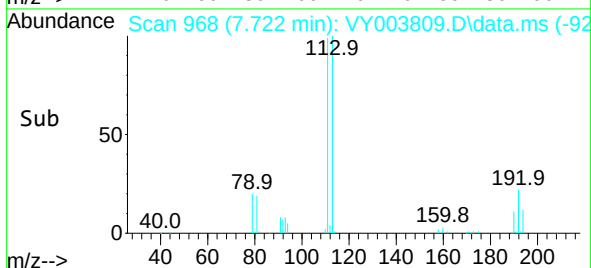
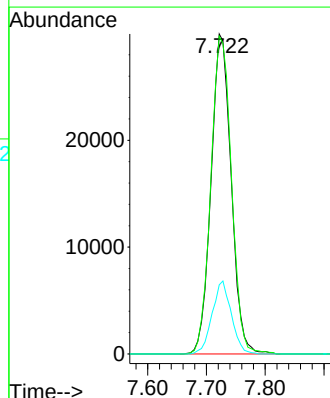
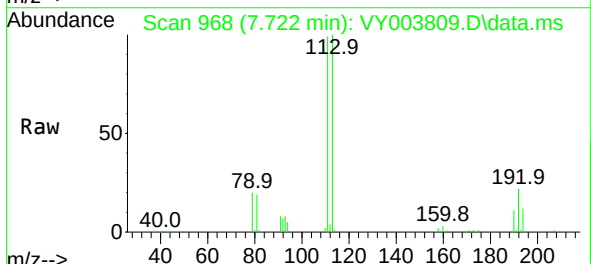
RT: 7.722 min Scan# 968

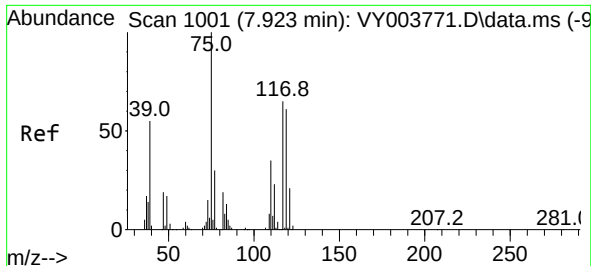
Delta R.T. -0.006 min

Lab File: VY003809.D

Acq: 16 Dec 2020 16:58

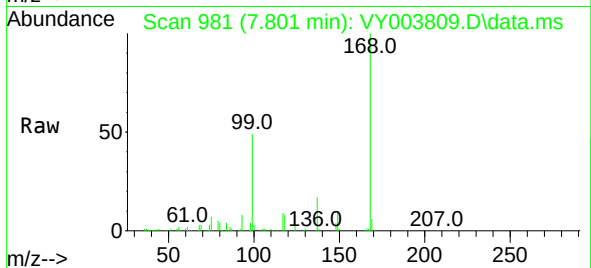
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 71217 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.7 | 82.2  | 123.2 |
| 192      | 21.7  | 16.7  | 25.1  |



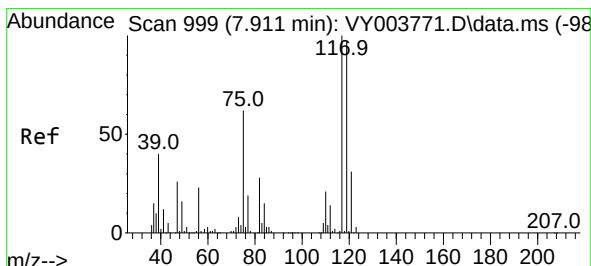
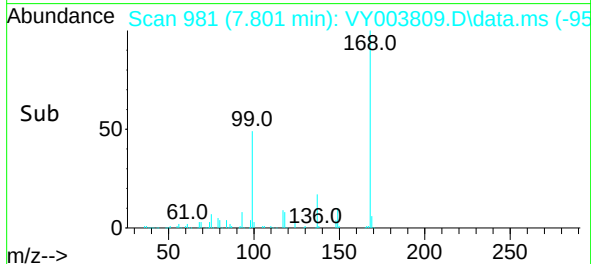
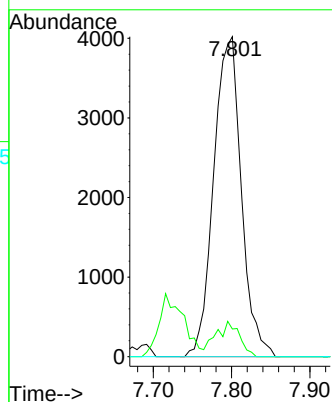


#36  
1,1-Dichloropropene  
Concen: 3.64 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.122 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

Instrument :  
MSVOA\_Y  
ClientSampled :

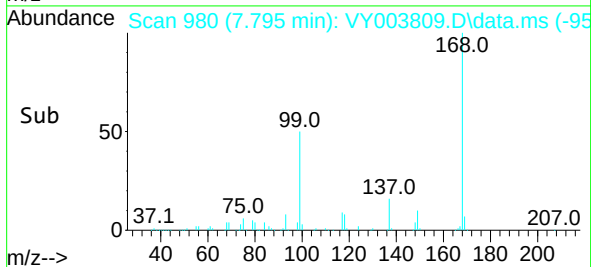
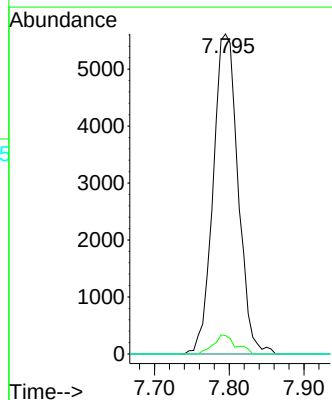
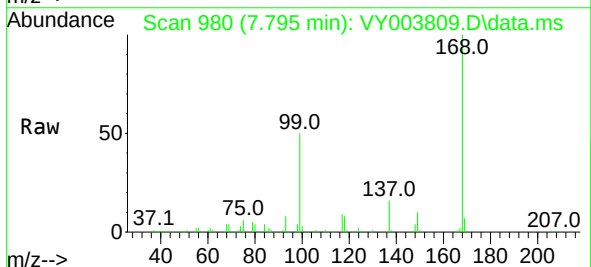


Tgt Ion: 75 Resp: 9852  
Ion Ratio Lower Upper  
75 100  
110 9.4 18.1 54.1#  
77 0.0 24.6 36.8#

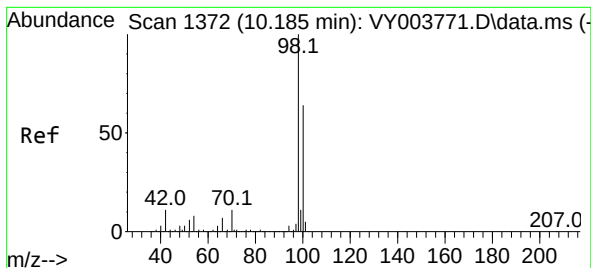


#38  
Carbon Tetrachloride  
Concen: 4.80 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.116 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

Tgt Ion: 117 Resp: 12990  
Ion Ratio Lower Upper  
117 100  
119 5.8 77.2 115.8#  
121 0.0 25.0 37.4#



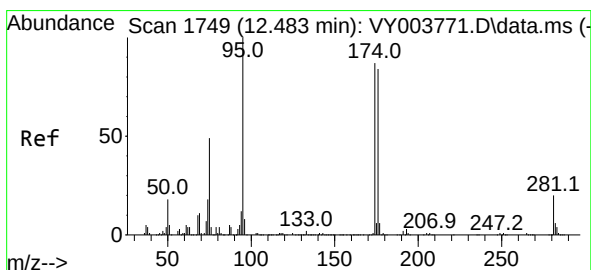
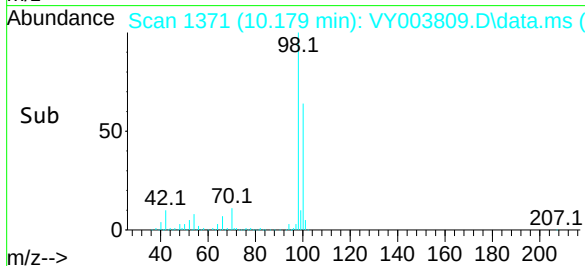
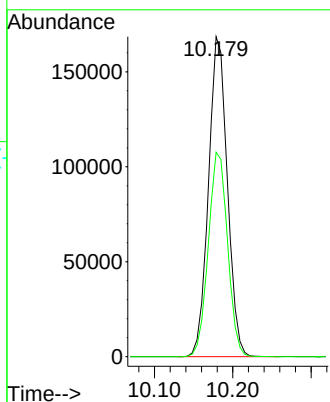
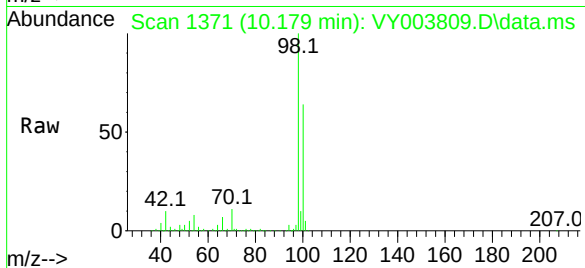




#50  
Toluene-d8  
Concen: 40.77 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.006 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

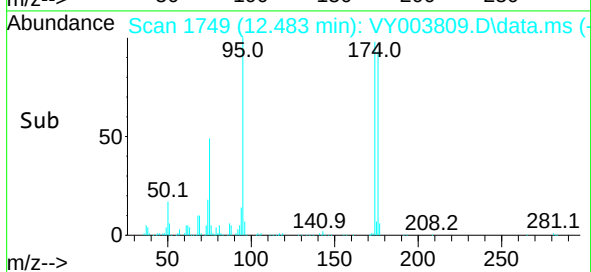
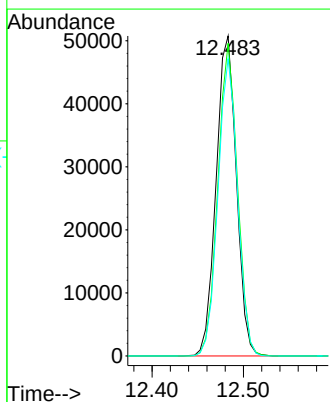
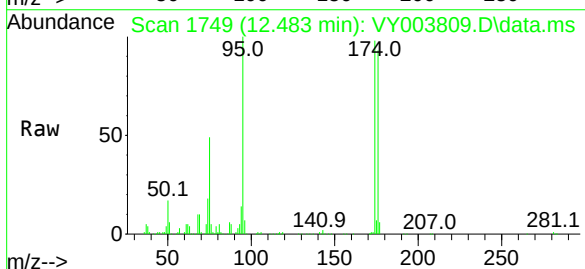
Instrument :  
MSVOA\_Y  
ClientSampled :

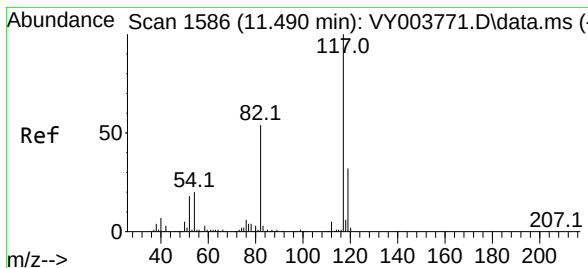
Tgt Ion: 98 Resp: 281314  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 33.00 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

Tgt Ion: 95 Resp: 78251  
Ion Ratio Lower Upper  
95 100  
174 94.4 0.0 170.8  
176 89.9 0.0 165.0

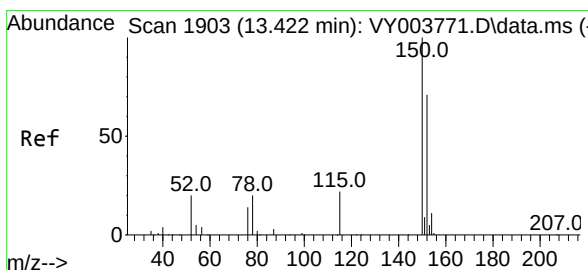
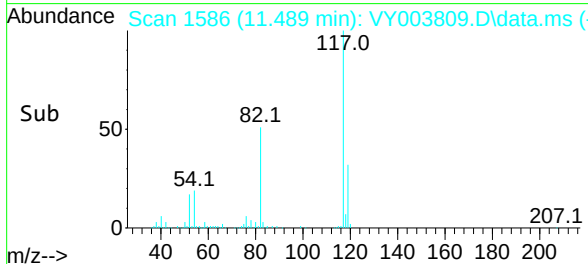
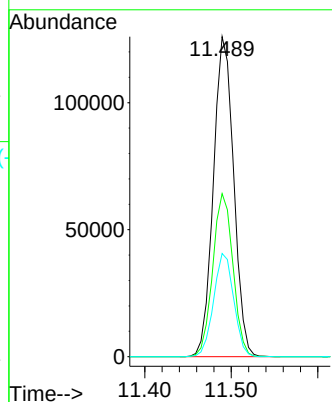
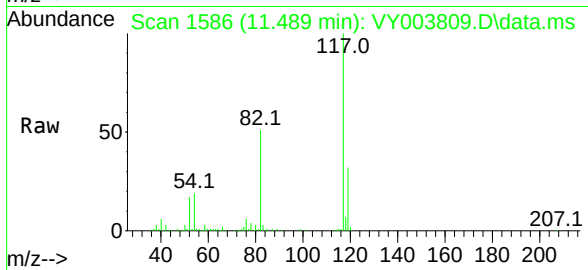




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

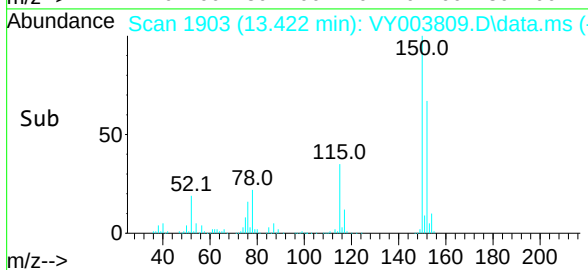
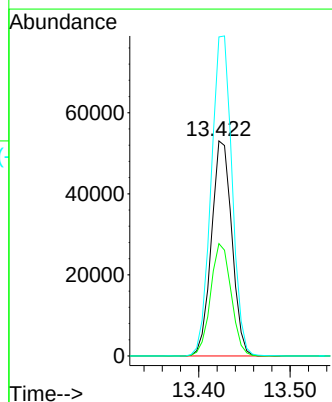
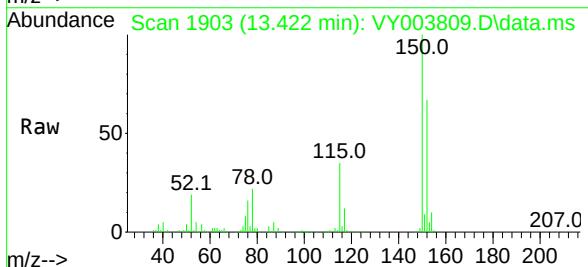
Instrument :  
MSVOA\_Y  
ClientSampleId :

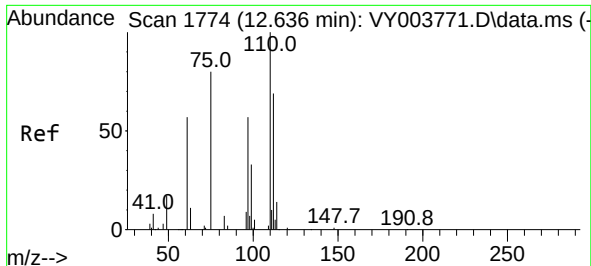
Tgt Ion:117 Resp: 205231  
Ion Ratio Lower Upper  
117 100  
82 50.9 43.0 64.6  
119 32.2 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.000 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

Tgt Ion:152 Resp: 82224  
Ion Ratio Lower Upper  
152 100  
115 52.7 28.0 83.9  
150 152.1 0.0 347.6

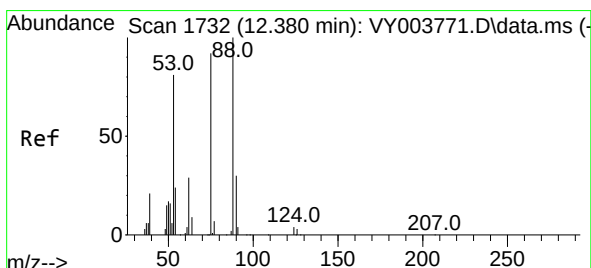
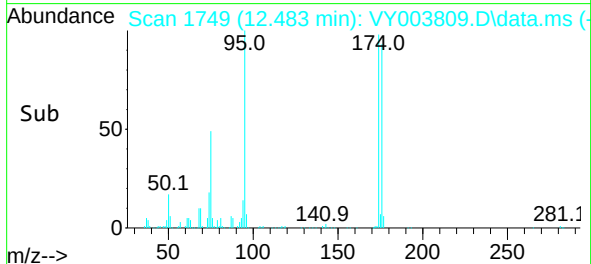
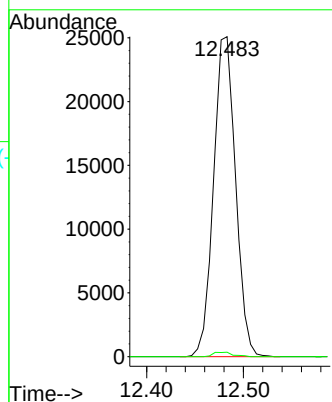
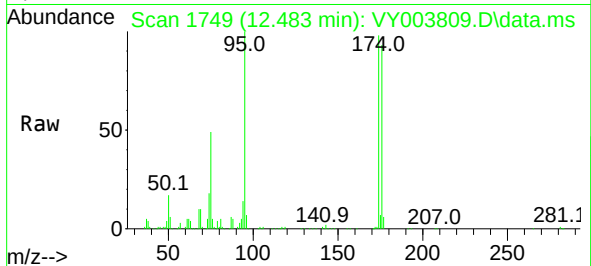




#76  
1,2,3-Trichloropropane  
Concen: 40.70 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.153 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 39645  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.07 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.103 min  
Lab File: VY003809.D  
Acq: 16 Dec 2020 16:58

Tgt Ion: 75 Resp: 39645  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.4 105.6#  
89 0.0 0.0 0.0

