

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042023\  
 Data File : VY013368.D  
 Acq On : 20 Apr 2023 15:13  
 Operator : KP/MD  
 Sample : 02371-05  
 Misc : 4.99g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-22-8.5-9.0RE

Quant Time: Apr 21 02:15:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 05:55:16 2023  
 Response via : Initial Calibration

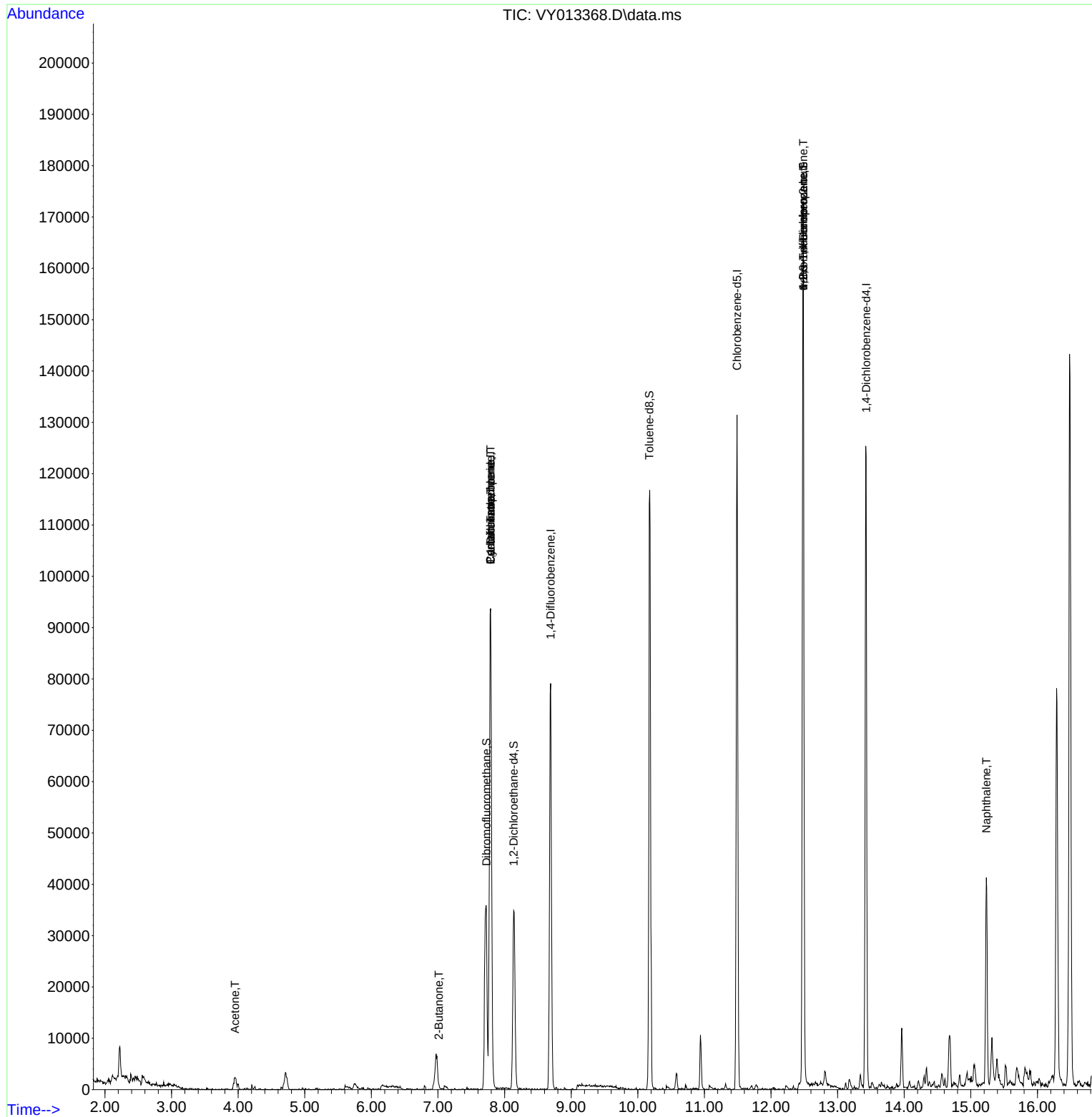
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 7.789  | 168   | 73896    | 50.000    | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 66061    | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 69226    | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 34671    | 50.000    | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 34308    | 38.633    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 77.260%   |
| 35) Dibromofluoromethane      | 7.728  | 113   | 25747    | 60.202    | ug/l   | 0.01      |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 120.400%  |
| 50) Toluene-d8                | 10.173 | 98    | 77800    | 48.873    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 97.740%   |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 48133    | 93.060    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 186.120%# |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           | Qvalue |           |
| 11) Tert butyl alcohol        | 4.960  | 59    | 22       | Below Cal | #      | 74        |
| 16) Acetone                   | 3.954  | 43    | 4585     | 15.016    | ug/l   | 90        |
| 20) Methylene Chloride        | 4.710  | 84    | 2931     | Below Cal | #      | 69        |
| 25) 2-Butanone                | 7.015  | 43    | 643      | 1.645     | ug/l   | # 49      |
| 31) Cyclohexane               | 7.789  | 56    | 1599     | 1.191     | ug/l   | # 11      |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 5134     | 7.924     | ug/l   | # 51      |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 6935     | 9.680     | ug/l   | # 16      |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 24527    | 56.772    | ug/l   | # 100     |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 24527    | 117.830   | ug/l   | # 13      |
| 95) Naphthalene               | 15.233 | 128   | 35739    | 25.205    | ug/l   | 98        |
| -----                         |        |       |          |           |        |           |

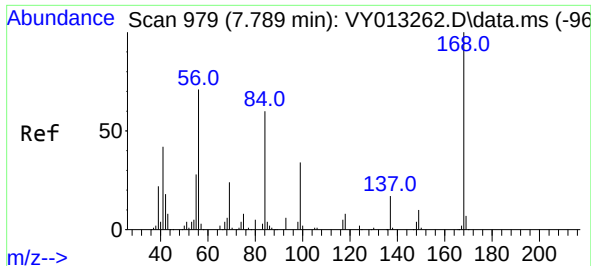
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
SB-22-8.5-9.0RE

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 13 05:55:16 2023  
Response via : Initial Calibration

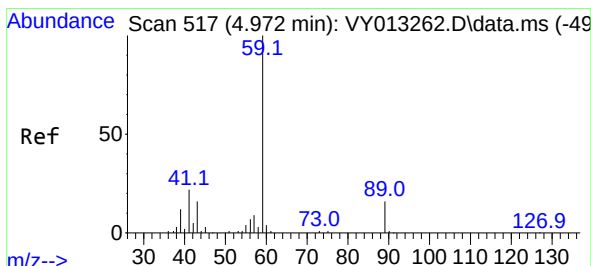
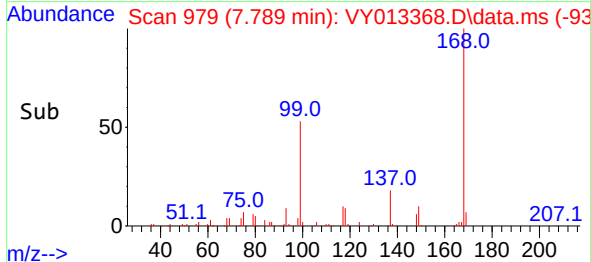
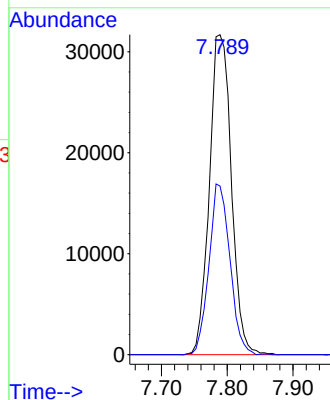
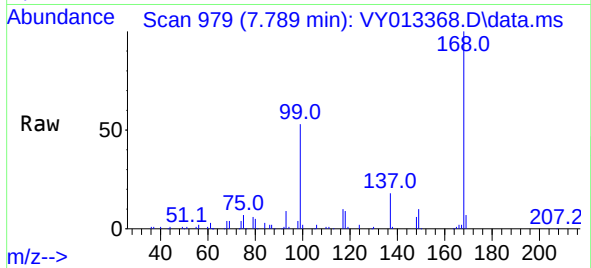




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

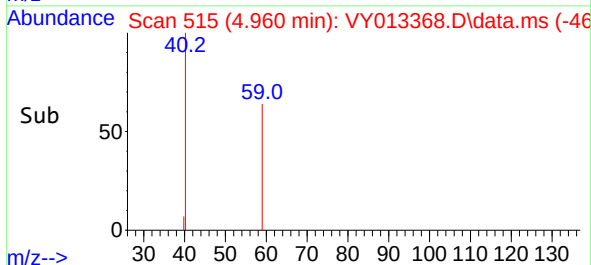
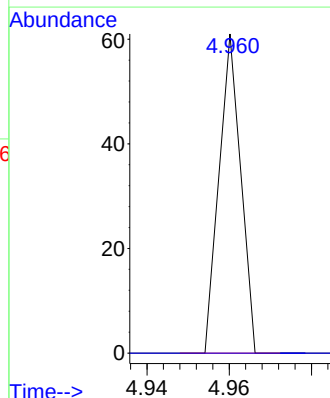
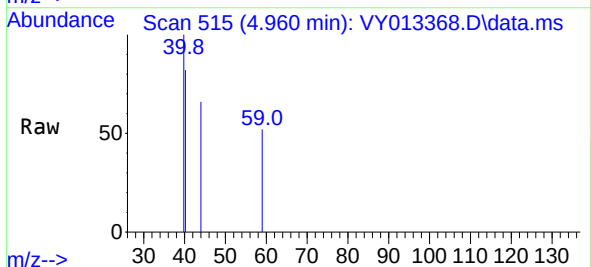
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE

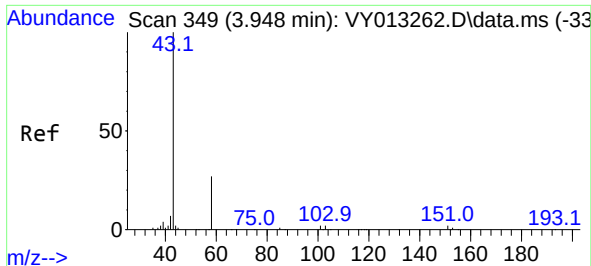
Tgt Ion:168 Resp: 73896  
Ion Ratio Lower Upper  
168 100  
99 52.7 41.7 62.5



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.960 min Scan# 515  
Delta R.T. -0.012 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

Tgt Ion: 59 Resp: 22  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#

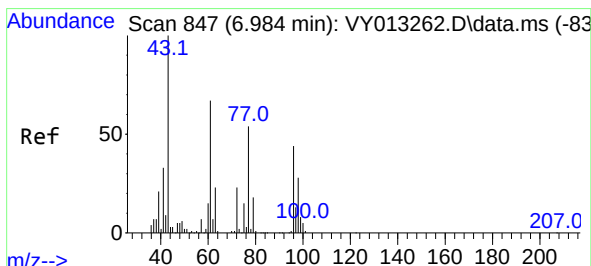
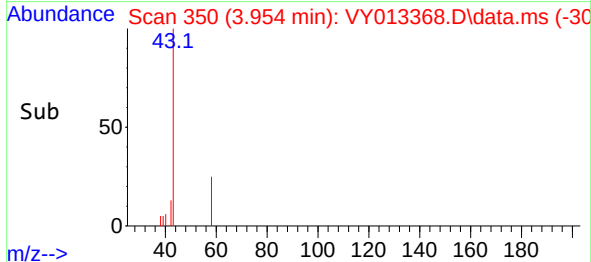
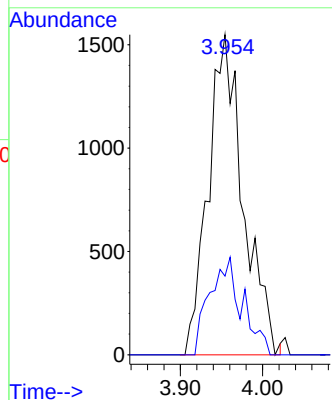
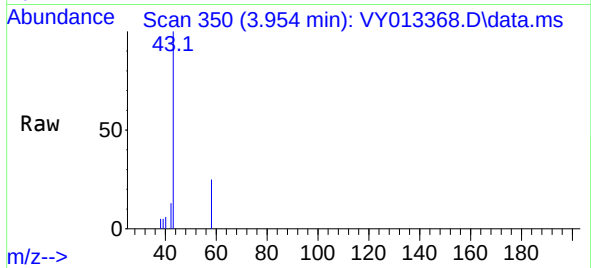




#16  
Acetone  
Concen: 15.016 ug/l  
RT: 3.954 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

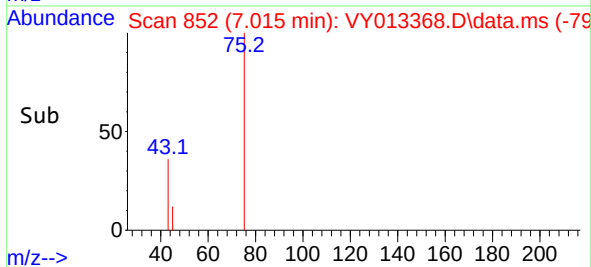
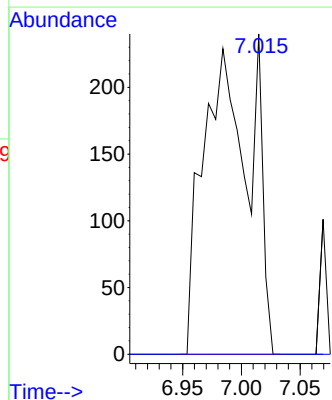
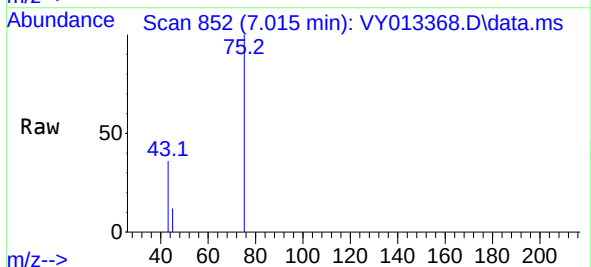
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE

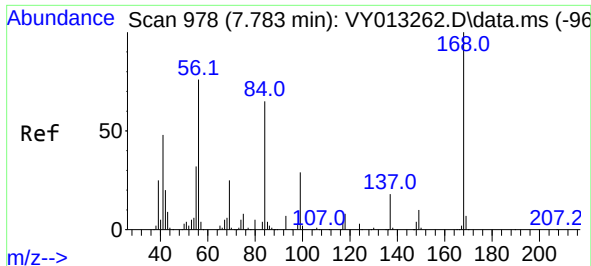
Tgt Ion: 43 Resp: 4585  
Ion Ratio Lower Upper  
43 100  
58 24.6 24.2 36.2



#25  
2-Butanone  
Concen: 1.645 ug/l  
RT: 7.015 min Scan# 852  
Delta R.T. 0.030 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

Tgt Ion: 43 Resp: 643  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.0 31.4#

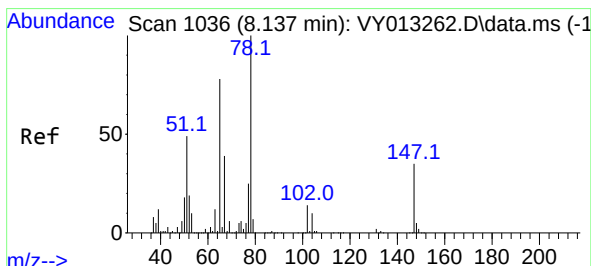
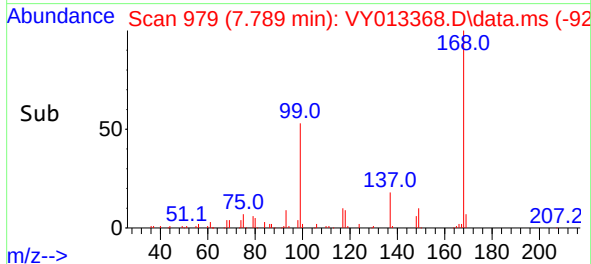
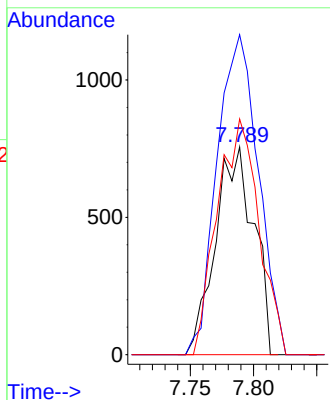
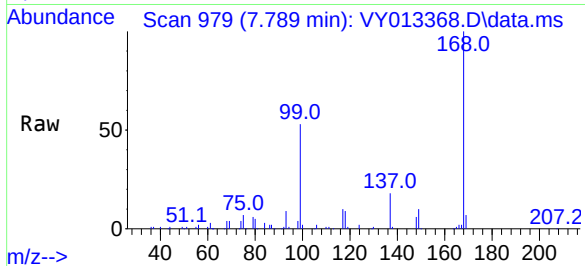




#31  
Cyclohexane  
Concen: 1.191 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

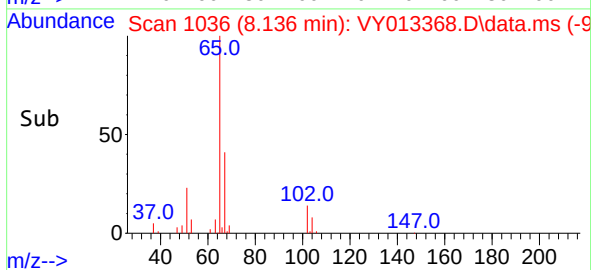
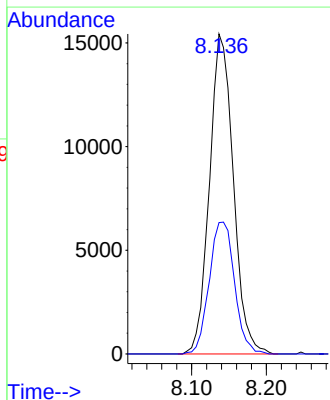
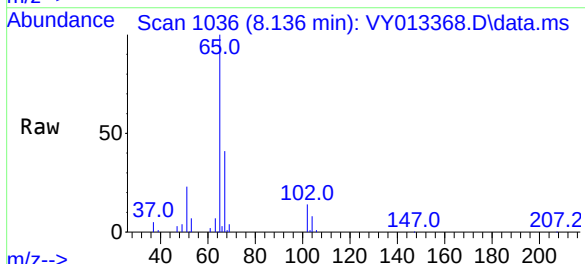
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE

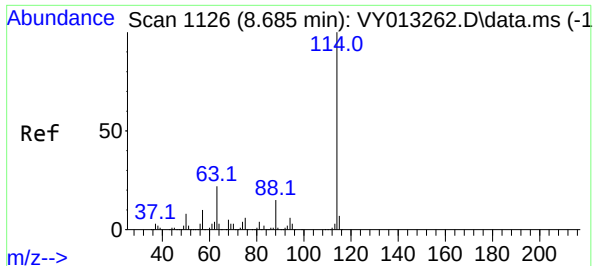
Tgt Ion: 56 Resp: 1599  
Ion Ratio Lower Upper  
56 100  
69 154.1 25.7 38.5#  
84 113.5 64.3 96.5#



#33  
1,2-Dichloroethane-d4  
Concen: 38.633 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.000 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

Tgt Ion: 65 Resp: 34308  
Ion Ratio Lower Upper  
65 100  
67 43.7 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY013368.D

Acq: 20 Apr 2023 15:13

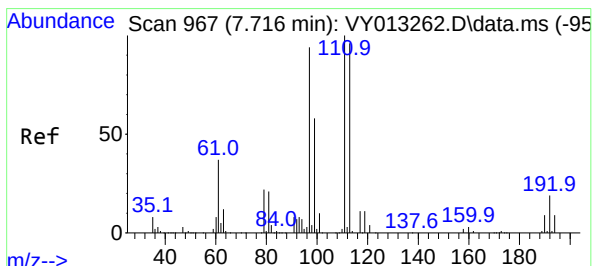
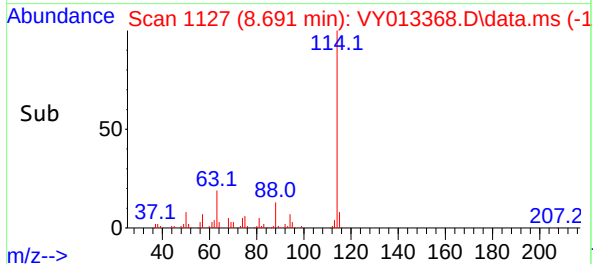
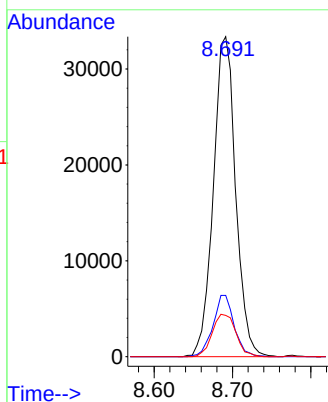
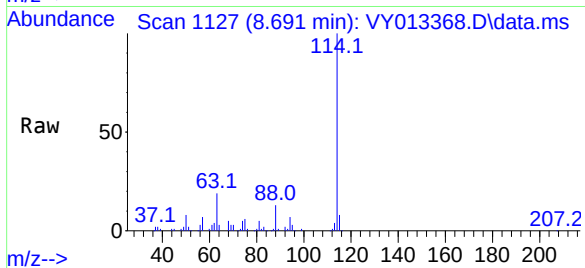
Instrument :

MSVOA\_Y

ClientSampleId :

SB-22-8.5-9.0RE

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 66061       |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 19.1  | 0.0 37.4    |
| 88          | 12.9  | 0.0 28.6    |



#35

Dibromofluoromethane

Concen: 60.202 ug/l

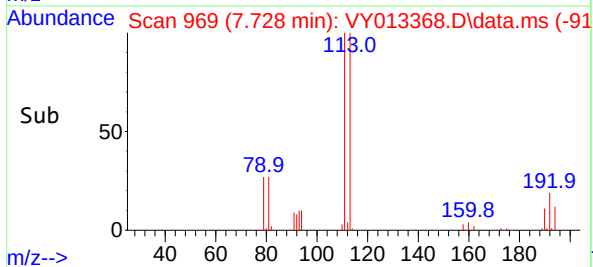
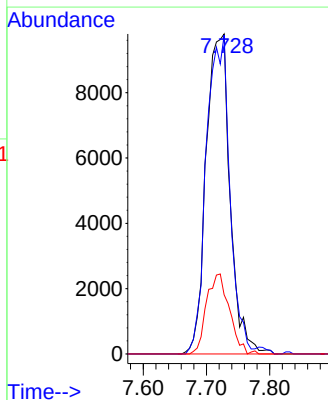
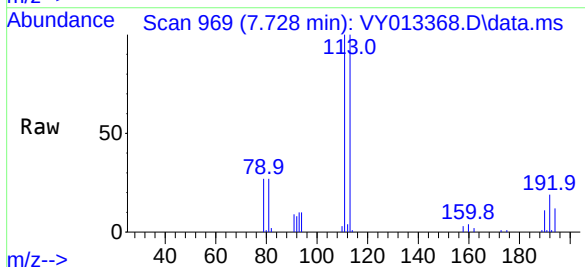
RT: 7.728 min Scan# 969

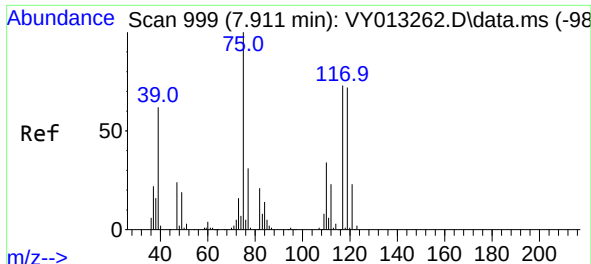
Delta R.T. 0.012 min

Lab File: VY013368.D

Acq: 20 Apr 2023 15:13

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 25747       |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 97.4  | 82.2 123.2  |
| 192         | 23.9  | 16.8 25.2   |





#36

1,1-Dichloropropene

Concen: 7.924 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY013368.D

Acq: 20 Apr 2023 15:13

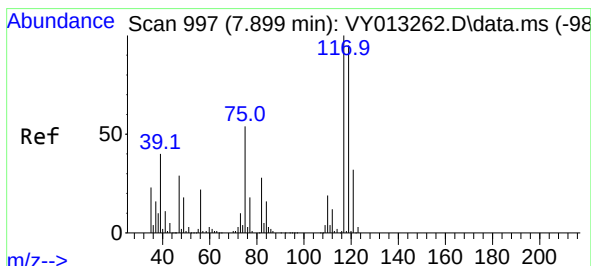
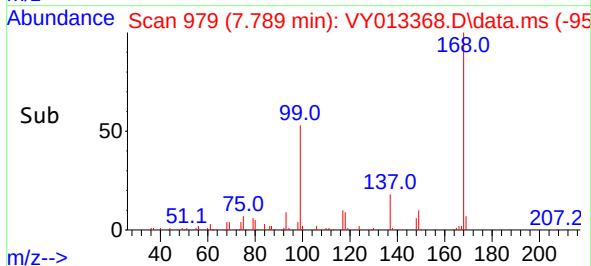
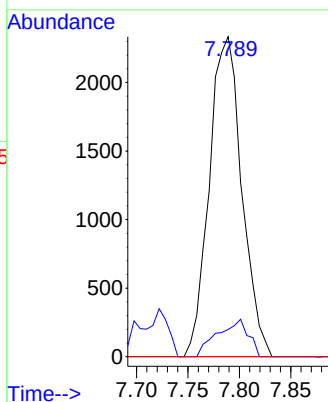
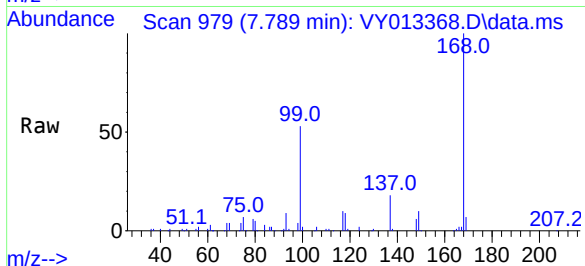
Instrument :

MSVOA\_Y

ClientSampleId :

SB-22-8.5-9.0RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 5134  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 11.0  | 17.8  | 53.3# |
| 77       | 0.0   | 25.0  | 37.4# |



#38

Carbon Tetrachloride

Concen: 9.680 ug/l

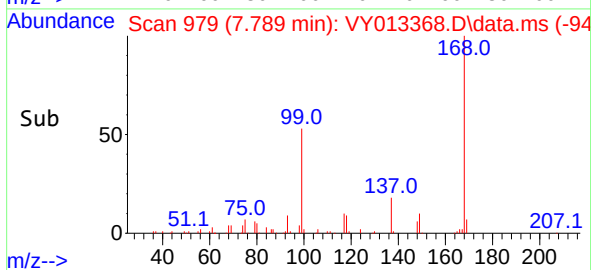
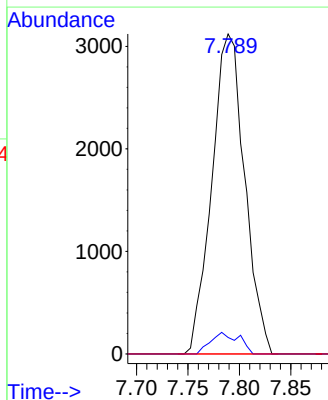
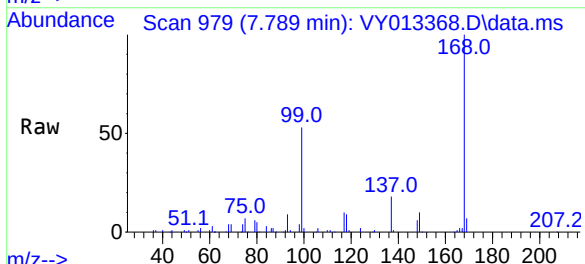
RT: 7.789 min Scan# 979

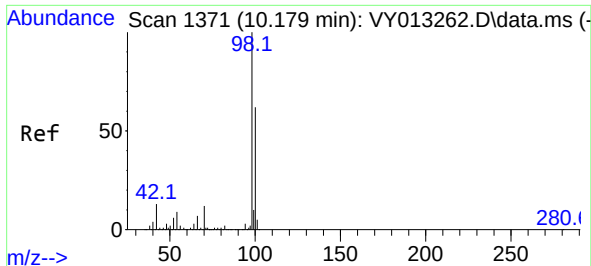
Delta R.T. -0.110 min

Lab File: VY013368.D

Acq: 20 Apr 2023 15:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 6935   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.1   | 77.2  | 115.8# |
| 121      | 0.0   | 24.7  | 37.1#  |

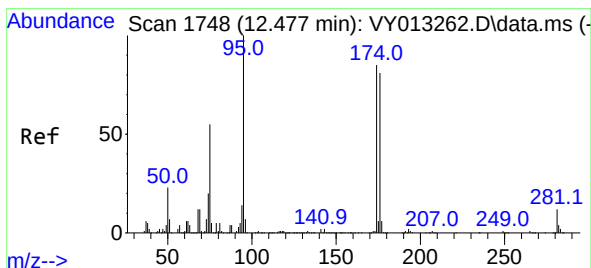
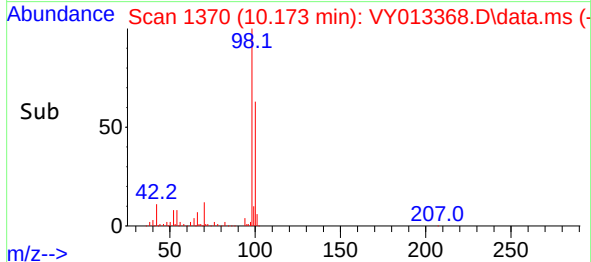
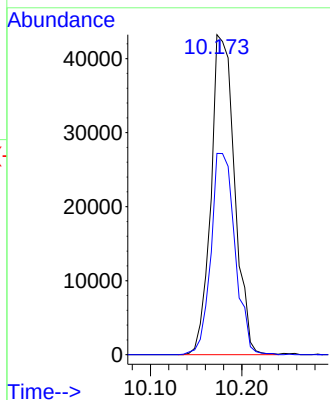
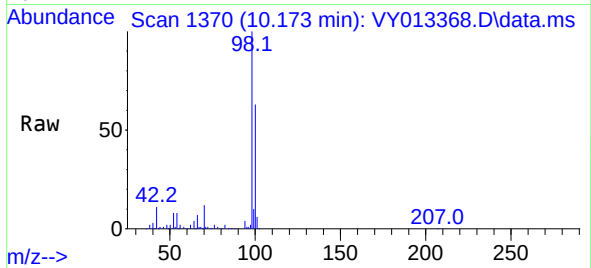




#50  
Toluene-d8  
Concen: 48.873 ug/l  
RT: 10.173 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

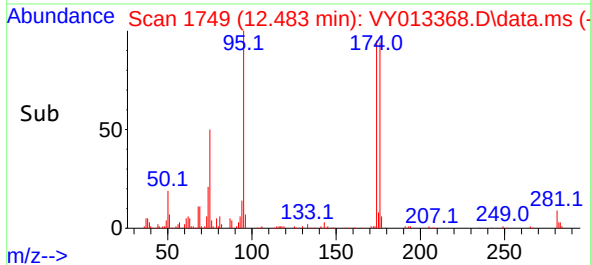
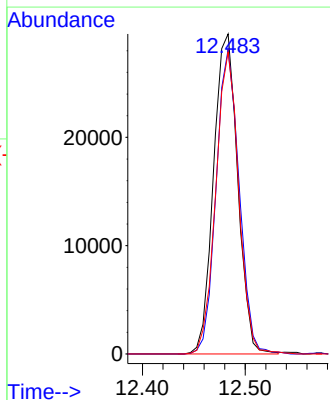
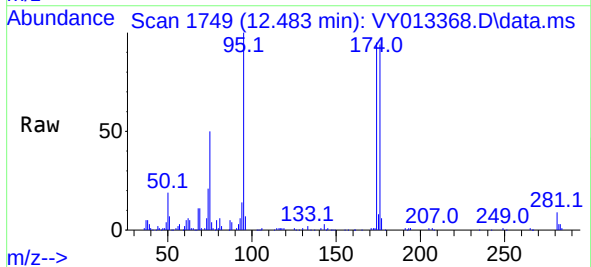
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE

Tgt Ion: 98 Resp: 77800  
Ion Ratio Lower Upper  
98 100  
100 64.1 50.9 76.3

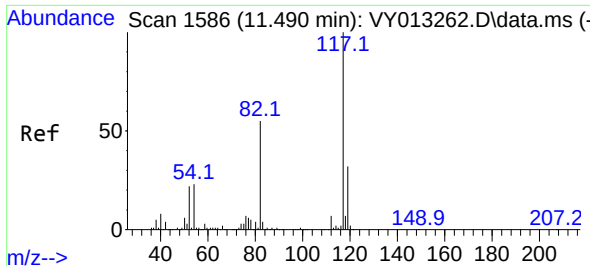


#62  
4-Bromofluorobenzene  
Concen: 93.060 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

Tgt Ion: 95 Resp: 48133  
Ion Ratio Lower Upper  
95 100  
174 90.7 0.0 176.6  
176 89.7 0.0 170.2



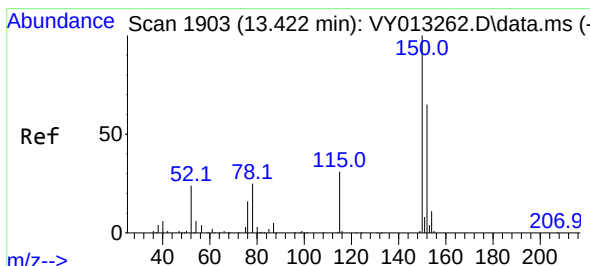
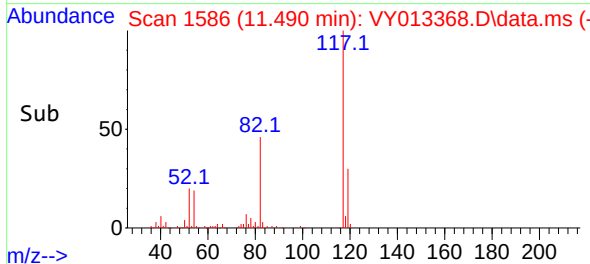
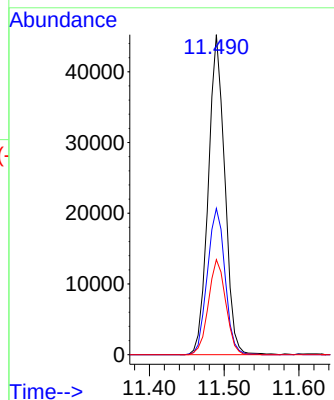
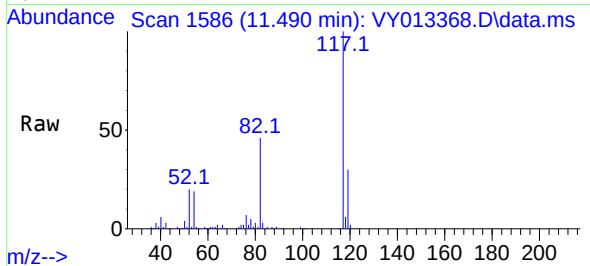




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

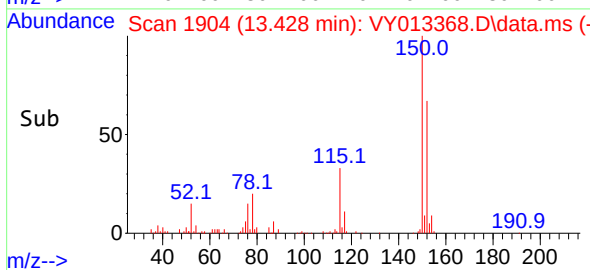
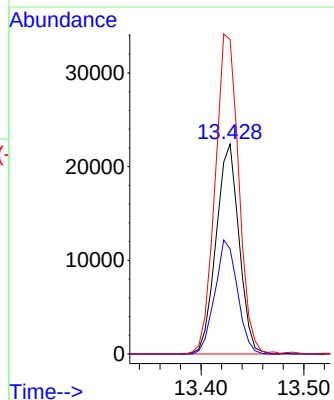
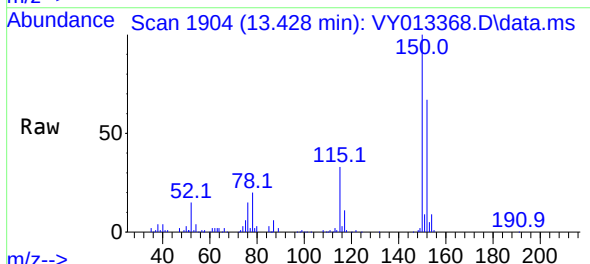
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE

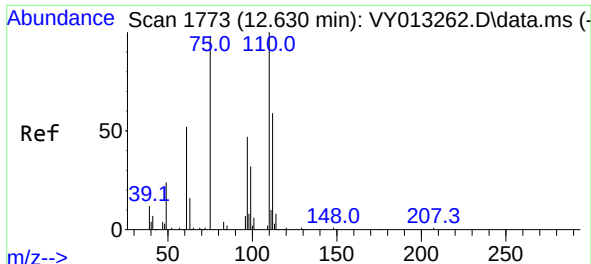
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 69226 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 45.7  | 45.4  | 68.0  |
| 119      | 29.7  | 25.6  | 38.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 34671 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 53.4  | 27.1  | 81.3  |
| 150      | 156.9 | 0.0   | 347.8 |

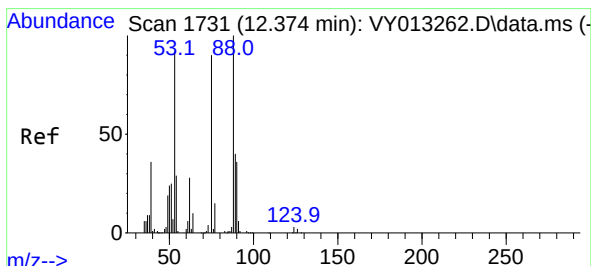
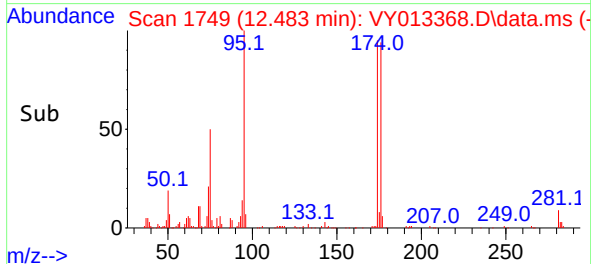
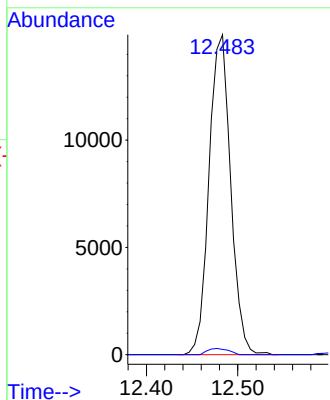
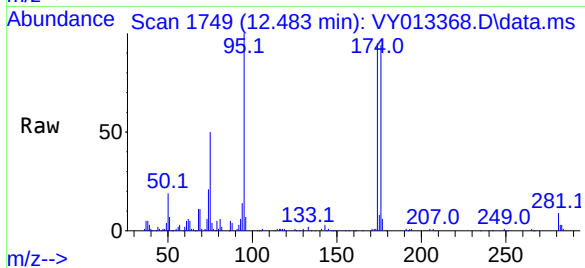




#76  
1,2,3-Trichloropropane  
Concen: 56.772 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.146 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

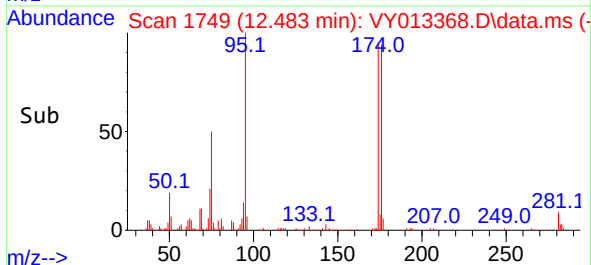
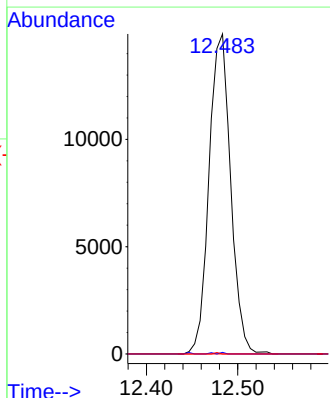
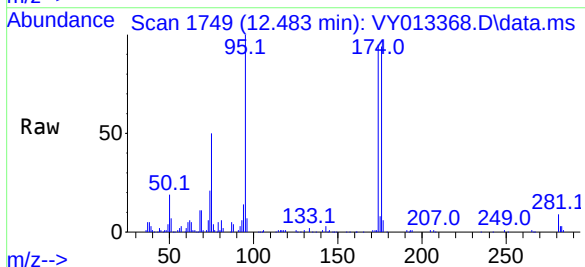
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE

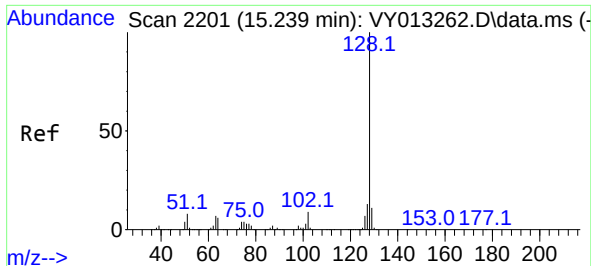
Tgt Ion: 75 Resp: 24527  
Ion Ratio Lower Upper  
75 100  
77 1.9 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 117.830 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.110 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

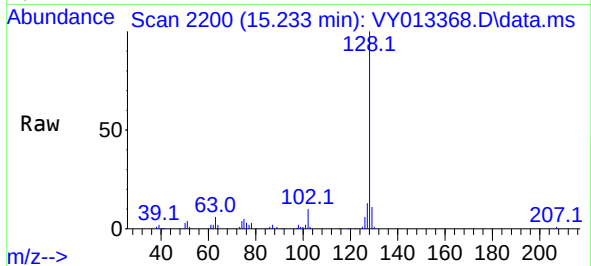
Tgt Ion: 75 Resp: 24527  
Ion Ratio Lower Upper  
75 100  
53 0.1 73.4 110.0#  
89 0.1 36.6 55.0#





#95  
Naphthalene  
Concen: 25.205 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VY013368.D  
Acq: 20 Apr 2023 15:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-22-8.5-9.0RE



Tgt Ion:128 Resp: 35739

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 14.3  | 10.3  | 15.5  |
| 129 | 11.2  | 8.6   | 13.0  |

