

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081924\  
 Data File : VY019130.D  
 Acq On : 19 Aug 2024 20:40  
 Operator : SY/MD  
 Sample : P3641-06  
 Misc : 7.30g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 20 01:51:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

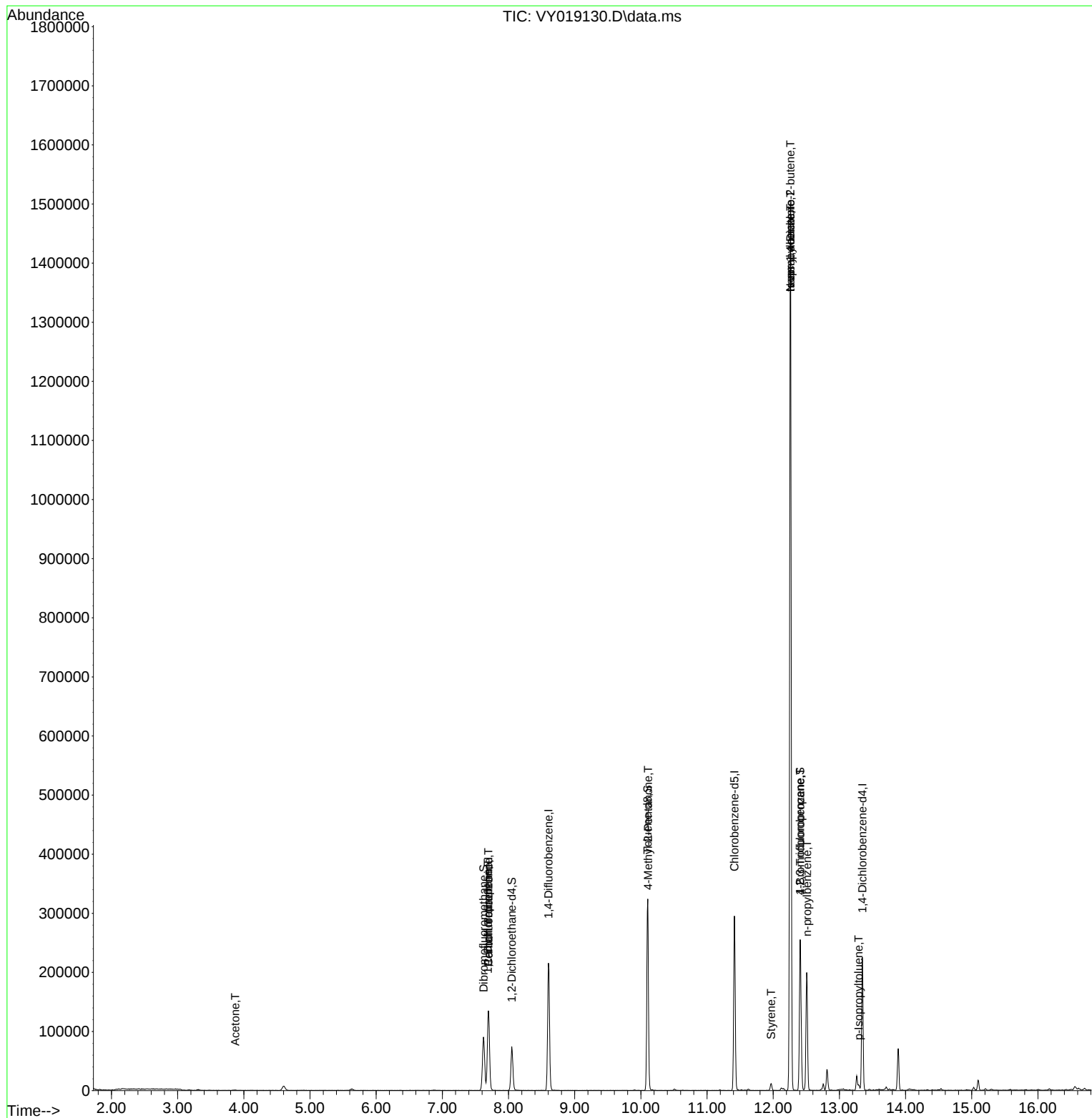
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.695          | 168  | 106568              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.604          | 114  | 186985              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.414         | 117  | 158098              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347         | 152  | 54474               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.049          | 65   | 54070               | 50.615    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 101.220% |           |        |          |
| 35) Dibromofluoromethane      | 7.622          | 113  | 62265               | 50.928    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 101.860% |           |        |          |
| 50) Toluene-d8                | 10.103         | 98   | 209404              | 47.594    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 95.180%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.408         | 95   | 62456               | 41.641    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 29 - 146 |      | Recovery = 83.280%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.605          | 94   | 214                 | Below Cal | #      | 47       |
| 6) Chloroethane               | 2.678          | 64   | 147                 | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 4.842          | 59   | 65                  | Below Cal | #      | 88       |
| 16) Acetone                   | 3.873          | 43   | 965                 | 4.871     | ug/l   | 97       |
| 20) Methylene Chloride        | 4.604          | 84   | 5070                | Below Cal |        | 94       |
| 31) Cyclohexane               | 7.689          | 56   | 2297                | Below Cal | #      | 14       |
| 36) 1,1-Dichloropropene       | 7.689          | 75   | 8476                | 5.049     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.695          | 117  | 10566               | 5.431     | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.109         | 43   | 891                 | 1.116     | ug/l # | 1        |
| 70) Styrene                   | 11.969         | 104  | 5779                | 1.460     | ug/l   | 91       |
| 73) Isopropylbenzene          | 12.261         | 105  | 57137               | 13.685    | ug/l # | 63       |
| 74) N-amyl acetate            | 12.261         | 43   | 24811               | 27.252    | ug/l # | 13       |
| 76) 1,2,3-Trichloropropane    | 12.408         | 75   | 34544               | 64.302    | ug/l # | 100      |
| 78) n-propylbenzene           | 12.511         | 91   | 21362               | 4.280     | ug/l # | 55       |
| 81) trans-1,4-Dichloro-2-b... | 12.261         | 75   | 2050                | 9.424     | ug/l # | 1        |
| 86) p-Isopropyltoluene        | 13.292         | 119  | 4372                | 1.163     | ug/l # | 71       |
| -----                         |                |      |                     |           |        |          |

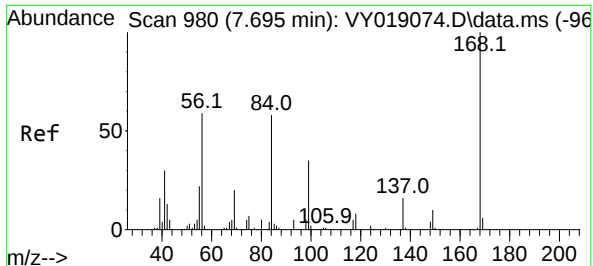
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081924\  
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Sample : P3641-06  
Misc : 7.30g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Aug 20 01:51:08 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 16 05:10:30 2024  
Response via : Initial Calibration

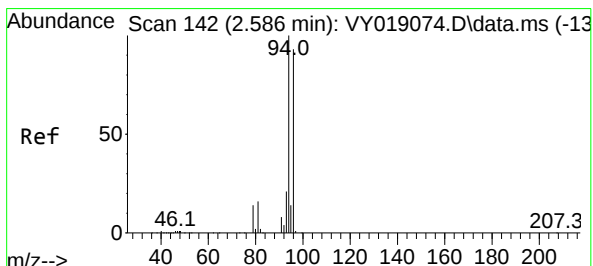
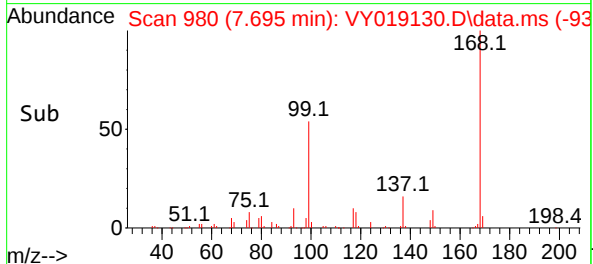
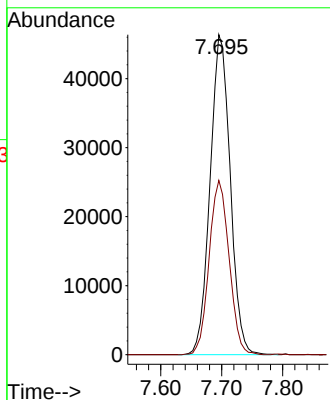
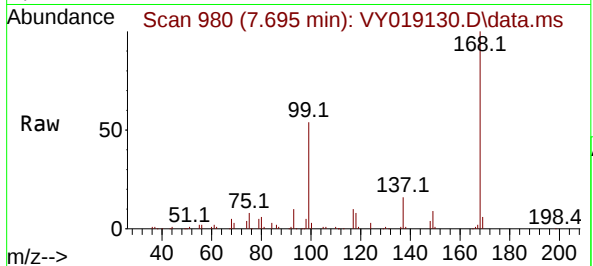




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.695 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

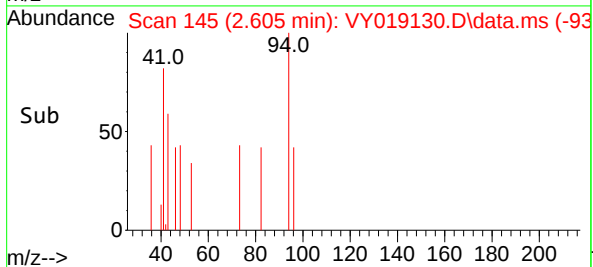
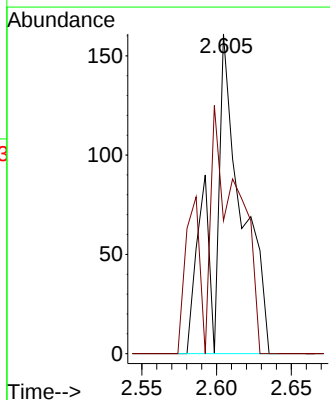
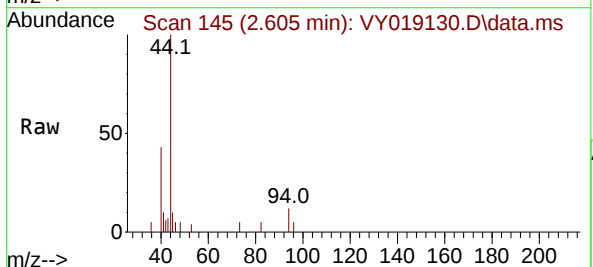
Instrument :  
MSVOA\_Y  
ClientSampleId :

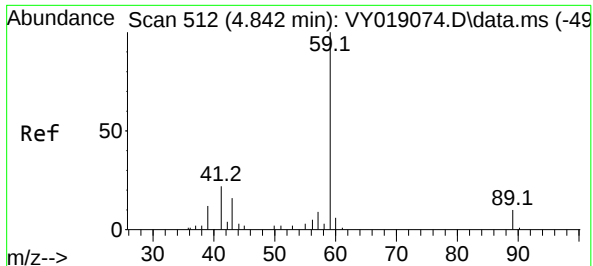
Tgt Ion:168 Resp: 106568  
Ion Ratio Lower Upper  
168 100  
99 54.4 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.605 min Scan# 145  
Delta R.T. 0.019 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

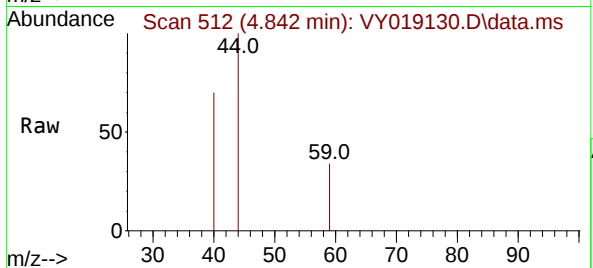
Tgt Ion: 94 Resp: 214  
Ion Ratio Lower Upper  
94 100  
96 41.6 74.1 111.1#



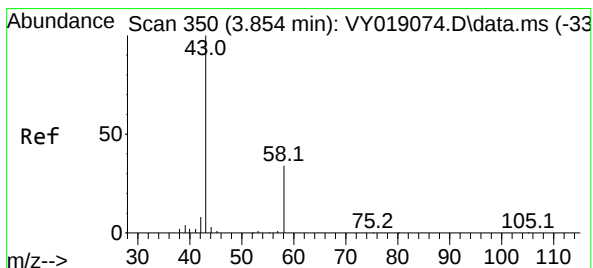
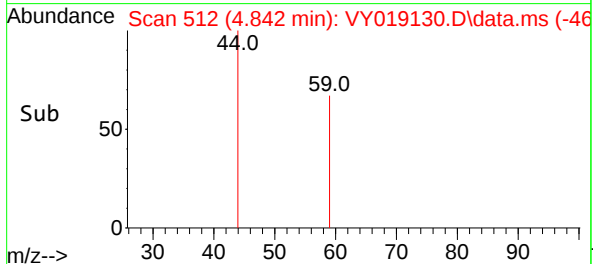
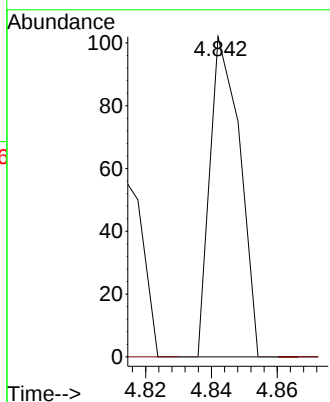


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.842 min Scan# 512  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Instrument :  
MSVOA\_Y  
ClientSampleId :

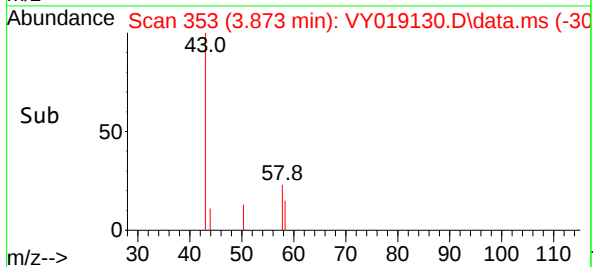
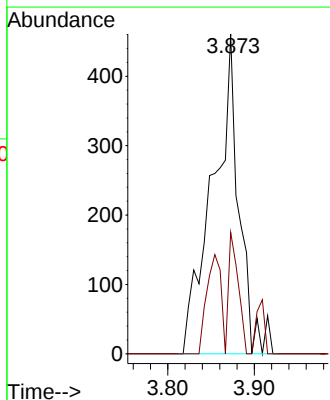
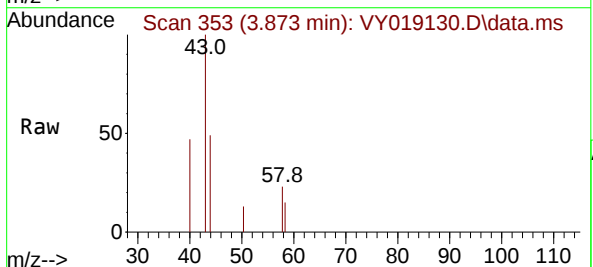


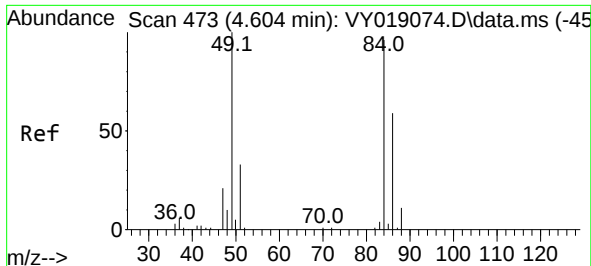
Tgt Ion: 59 Resp: 65  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#



#16  
Acetone  
Concen: 4.871 ug/l  
RT: 3.873 min Scan# 353  
Delta R.T. 0.019 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

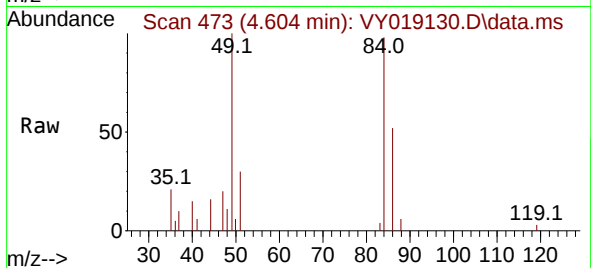
Tgt Ion: 43 Resp: 965  
Ion Ratio Lower Upper  
43 100  
58 38.0 31.7 47.5



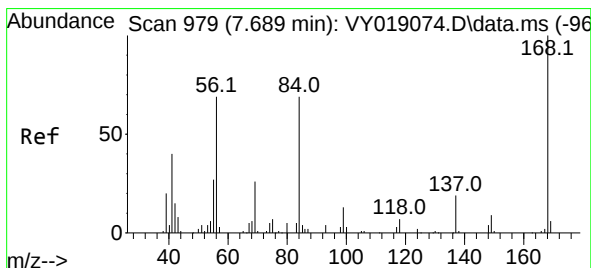
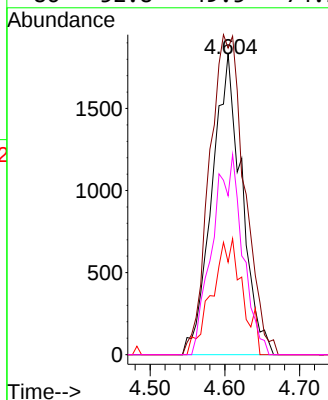
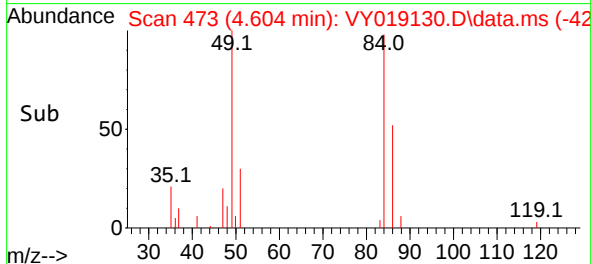


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.604 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Instrument :  
MSVOA\_Y  
ClientSampleId :

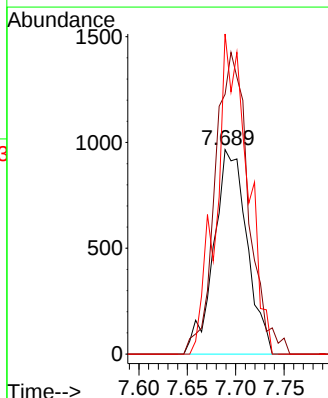
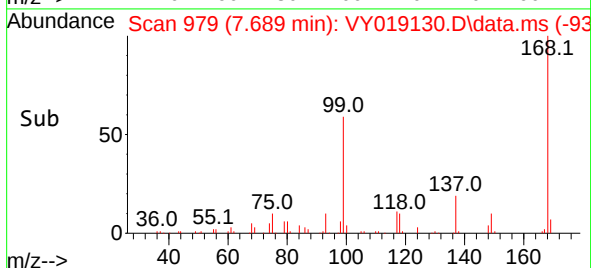
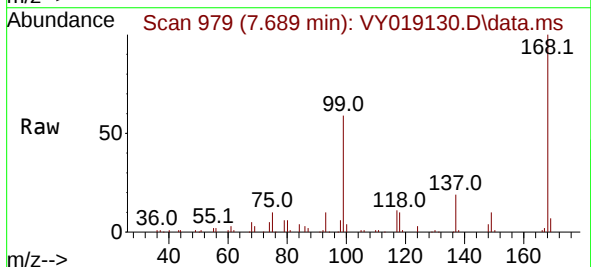


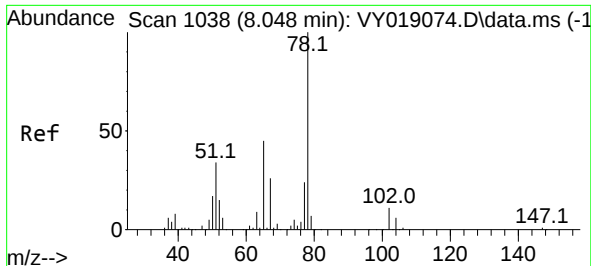
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5070  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 101.8 | 84.4  | 126.6 |
| 51       | 30.7  | 26.0  | 39.0  |
| 86       | 52.8  | 49.5  | 74.3  |



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.689 min Scan# 979  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 2297   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 127.1 | 28.7  | 43.1#  |
| 84       | 156.6 | 77.7  | 116.5# |





#33

1,2-Dichloroethane-d4

Concen: 50.615 ug/l

RT: 8.049 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY019130.D

Acq: 19 Aug 2024 20:40

Instrument :

MSVOA\_Y

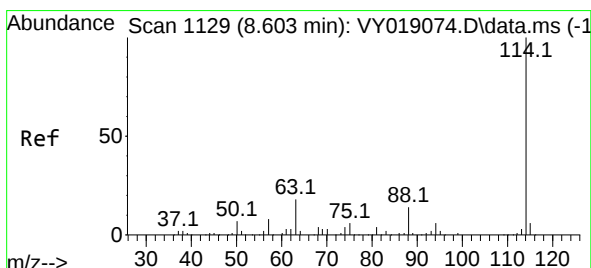
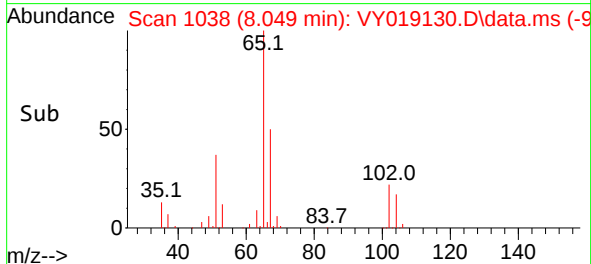
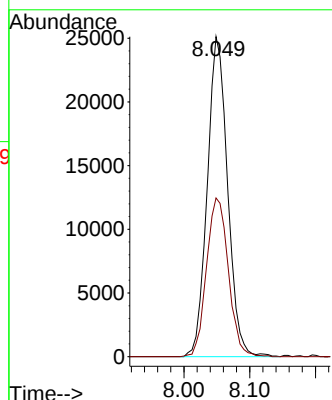
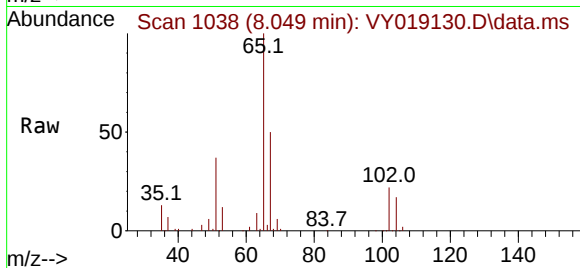
ClientSampleId :

Tgt Ion: 65 Resp: 54070

Ion Ratio Lower Upper

65 100

67 53.3 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.604 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VY019130.D

Acq: 19 Aug 2024 20:40

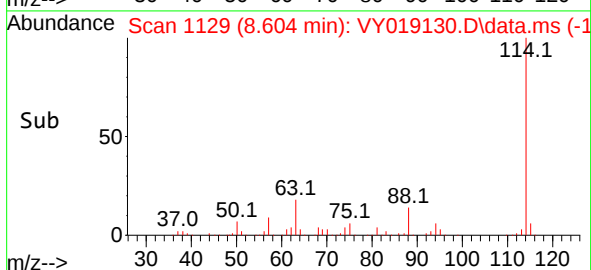
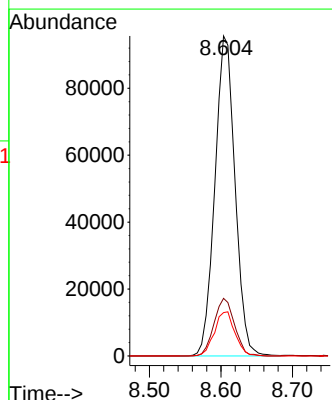
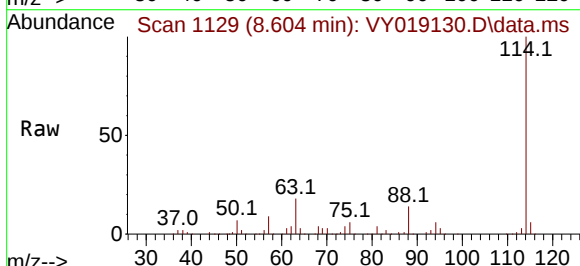
Tgt Ion: 114 Resp: 186985

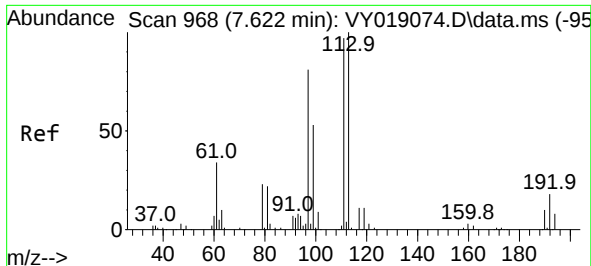
Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.0

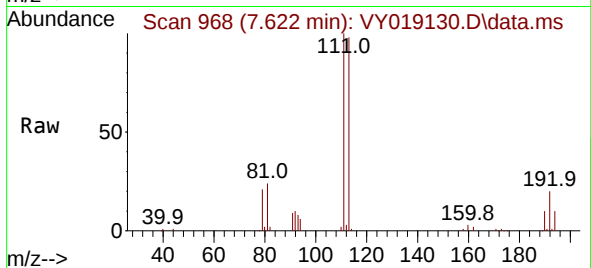
88 13.5 0.0 27.2



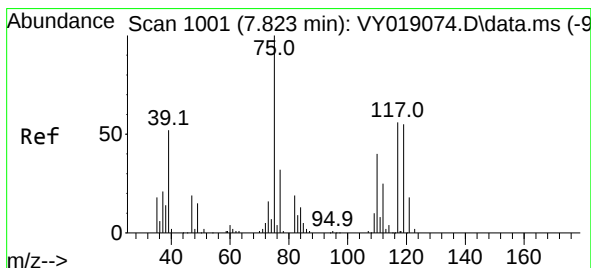
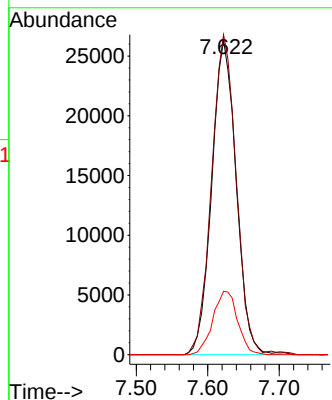
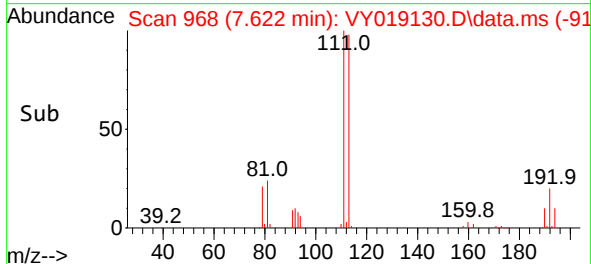


#35  
Dibromofluoromethane  
Concen: 50.928 ug/l  
RT: 7.622 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Instrument :  
MSVOA\_Y  
ClientSampleId :

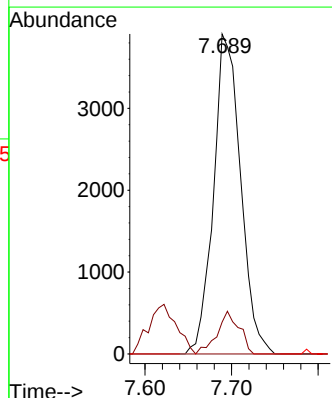
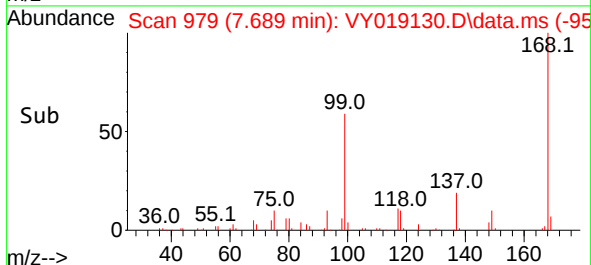
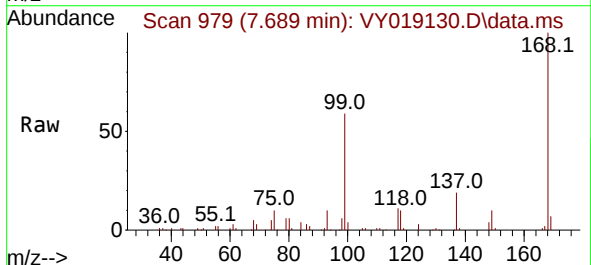


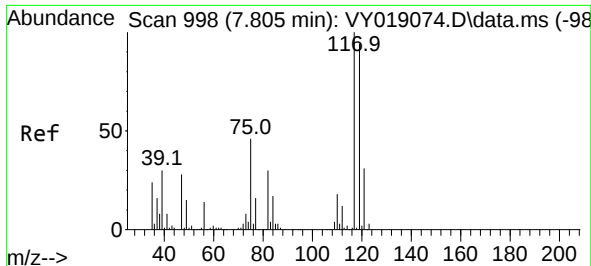
Tgt Ion:113 Resp: 62265  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.2 123.4  
192 20.5 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 5.049 ug/l  
RT: 7.689 min Scan# 979  
Delta R.T. -0.134 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Tgt Ion: 75 Resp: 8476  
Ion Ratio Lower Upper  
75 100  
110 10.9 19.0 57.0#  
77 0.0 25.3 37.9#

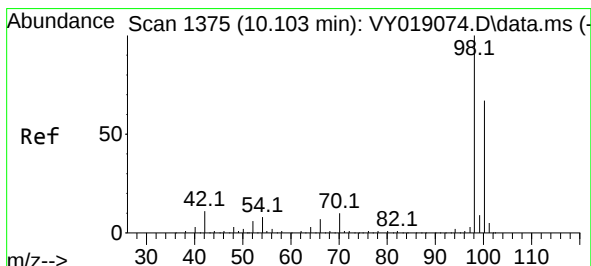
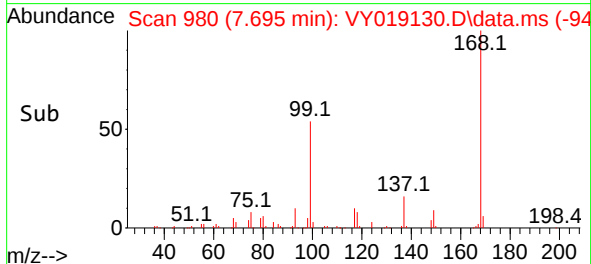
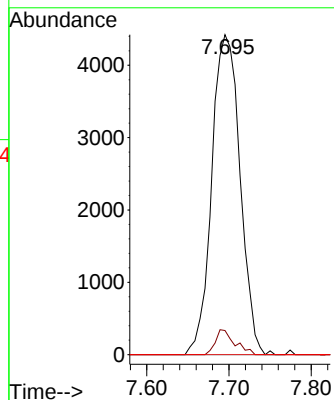
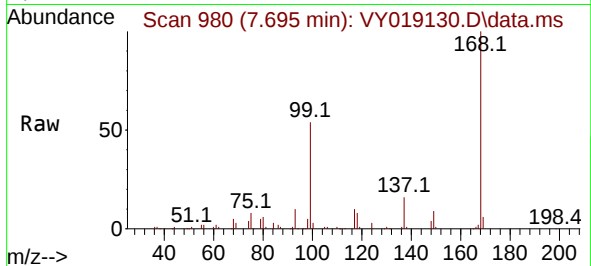




#38  
Carbon Tetrachloride  
Concen: 5.431 ug/l  
RT: 7.695 min Scan# 91  
Delta R.T. -0.109 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

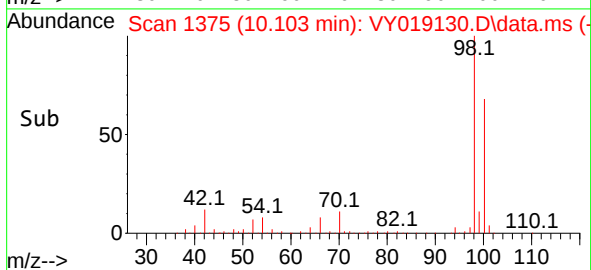
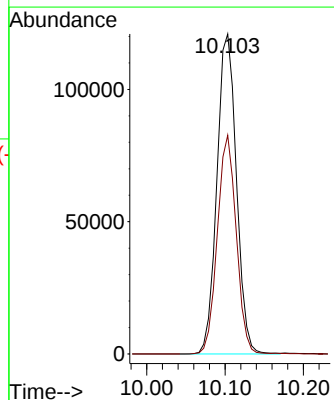
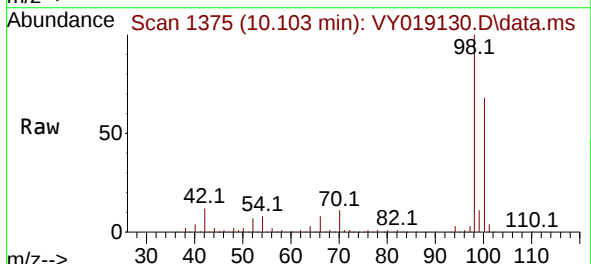
Instrument :  
MSVOA\_Y  
ClientSampleId :

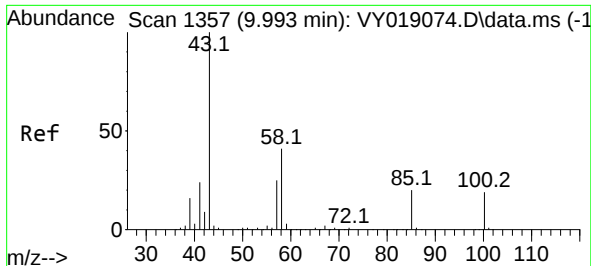
Tgt Ion:117 Resp: 10566  
Ion Ratio Lower Upper  
117 100  
119 7.5 75.8 113.6#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 47.594 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Tgt Ion: 98 Resp: 209404  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.0 78.0

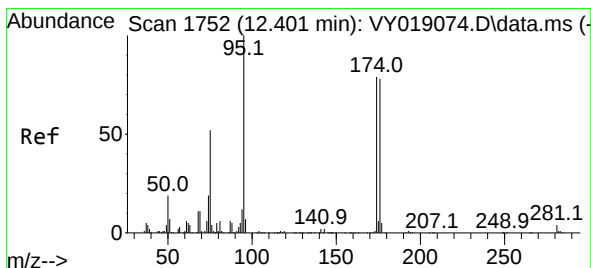
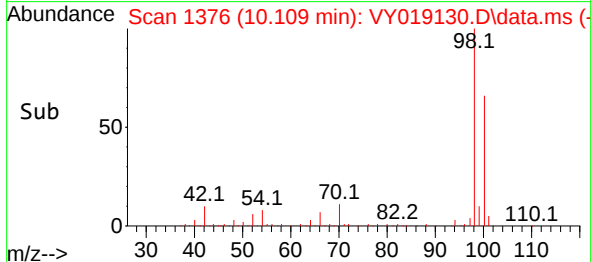
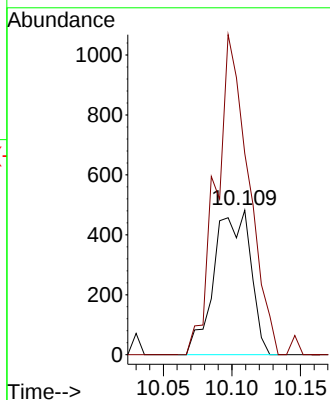
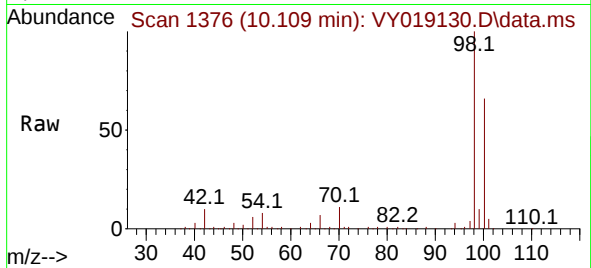




#51  
4-Methyl-2-Pentanone  
Concen: 1.116 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.116 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

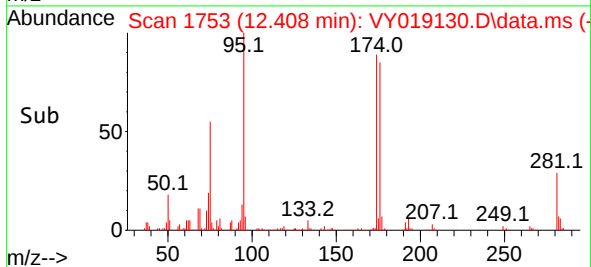
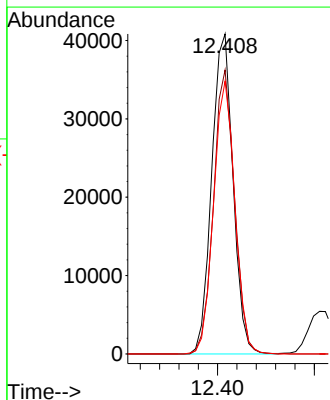
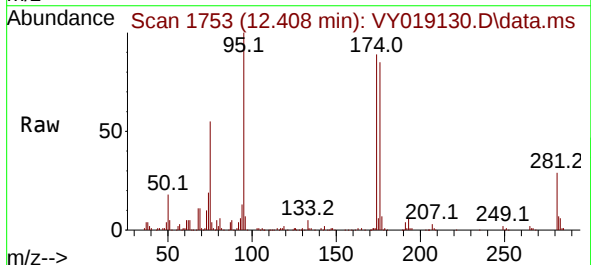
Instrument :  
MSVOA\_Y  
ClientSampleId :

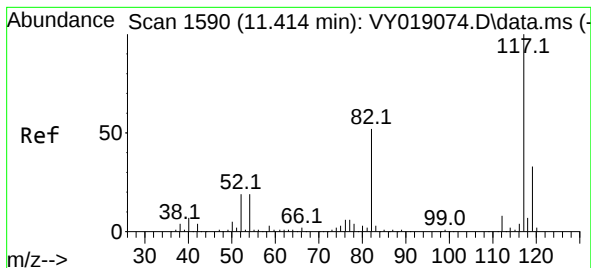
Tgt Ion: 43 Resp: 891  
Ion Ratio Lower Upper  
43 100  
58 198.7 35.7 53.5#



#62  
4-Bromofluorobenzene  
Concen: 41.641 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Tgt Ion: 95 Resp: 62456  
Ion Ratio Lower Upper  
95 100  
174 87.3 0.0 175.6  
176 85.2 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019130.D

Acq: 19 Aug 2024 20:40

Instrument :

MSVOA\_Y

ClientSampleId :

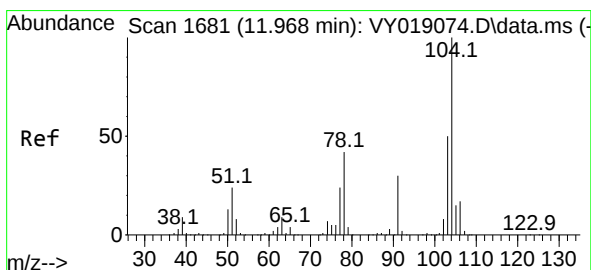
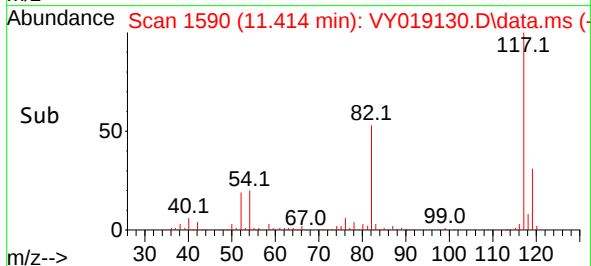
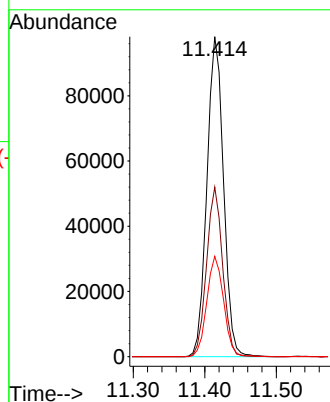
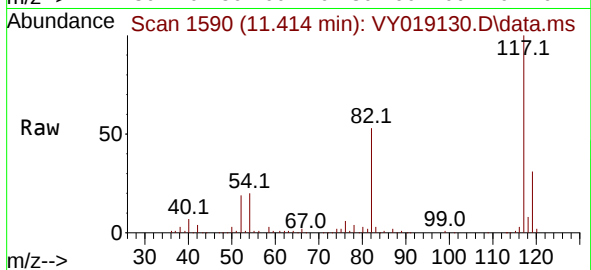
Tgt Ion:117 Resp: 158098

Ion Ratio Lower Upper

117 100

82 53.0 42.4 63.6

119 31.4 25.9 38.9



#70

Styrene

Concen: 1.460 ug/l

RT: 11.969 min Scan# 1681

Delta R.T. 0.000 min

Lab File: VY019130.D

Acq: 19 Aug 2024 20:40

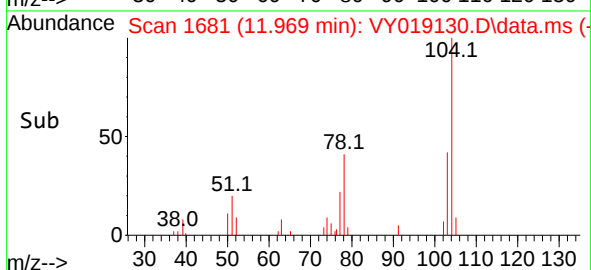
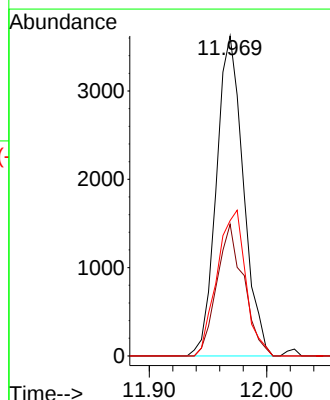
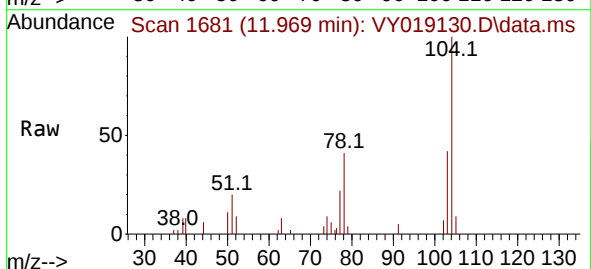
Tgt Ion:104 Resp: 5779

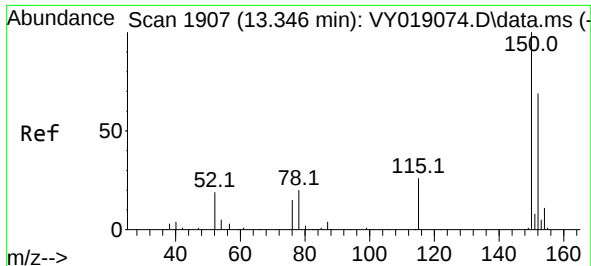
Ion Ratio Lower Upper

104 100

78 41.0 37.0 55.4

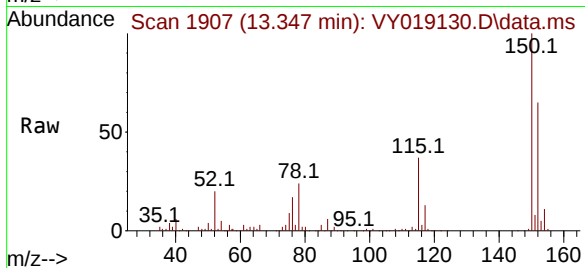
103 48.2 44.2 66.2



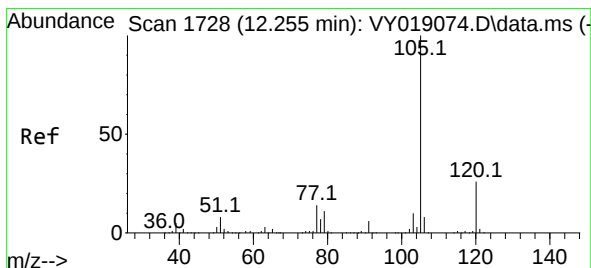
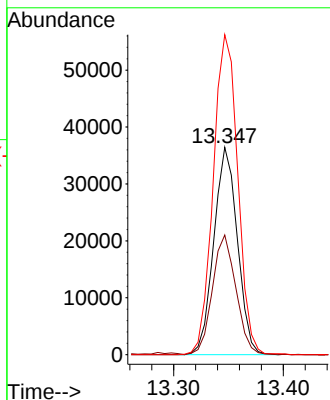
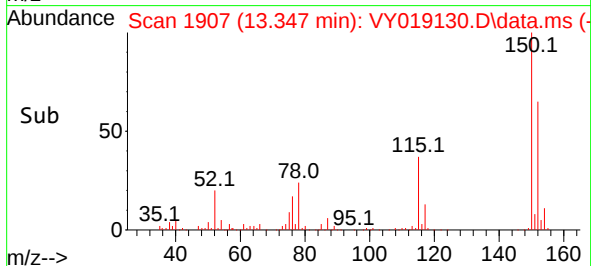


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Instrument :  
MSVOA\_Y  
ClientSampleId :

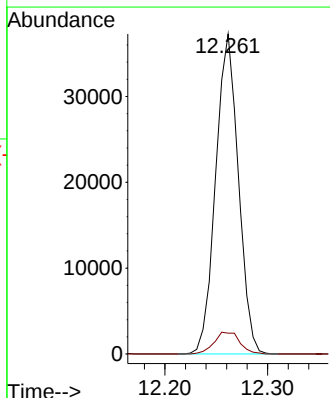
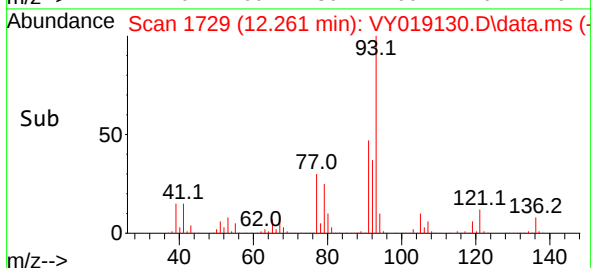
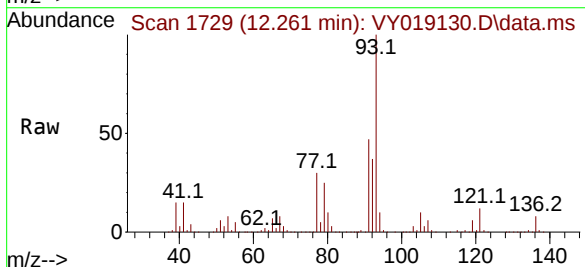


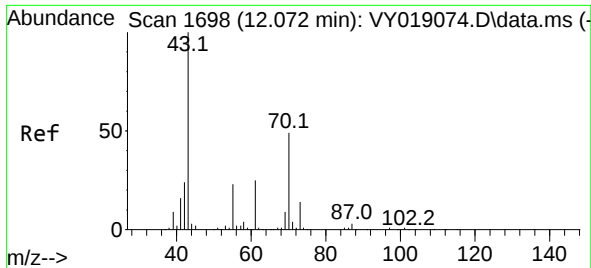
Tgt Ion:152 Resp: 54474  
Ion Ratio Lower Upper  
152 100  
115 57.6 28.2 84.7  
150 160.5 0.0 345.6



#73  
Isopropylbenzene  
Concen: 13.685 ug/l  
RT: 12.261 min Scan# 1729  
Delta R.T. 0.006 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Tgt Ion:105 Resp: 57137  
Ion Ratio Lower Upper  
105 100  
120 7.7 13.4 40.1#

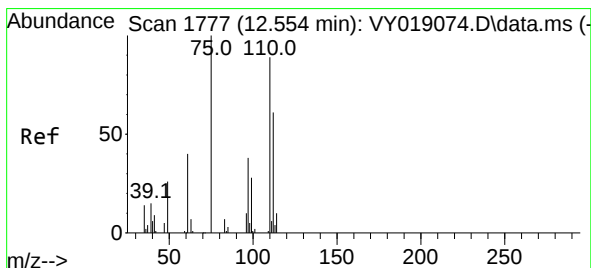
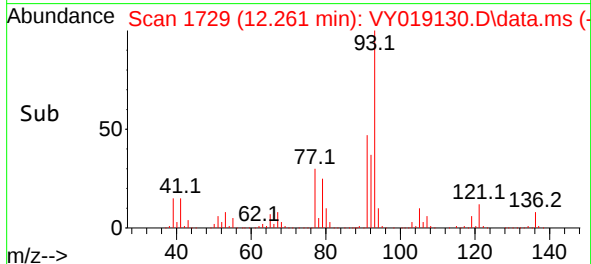
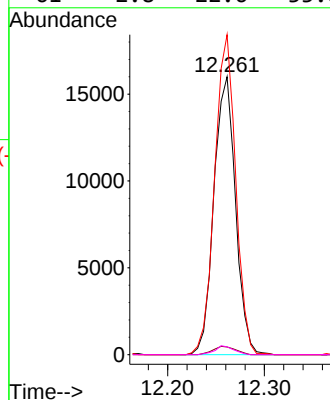
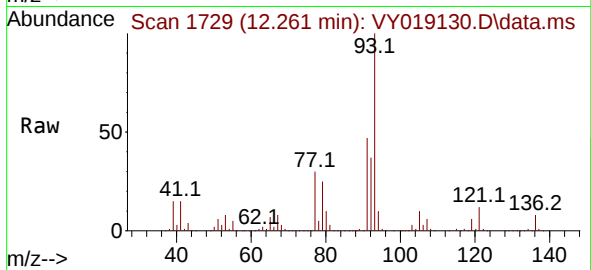




#74  
N-amy1 acetate  
Concen: 27.252 ug/l  
RT: 12.261 min Scan# 1729  
Delta R.T. 0.189 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

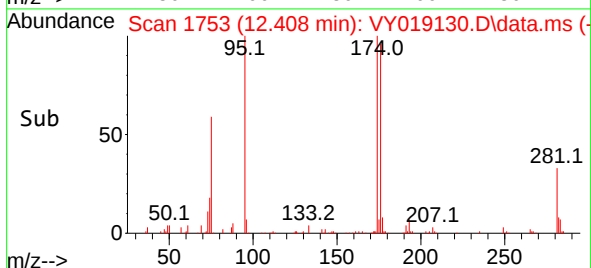
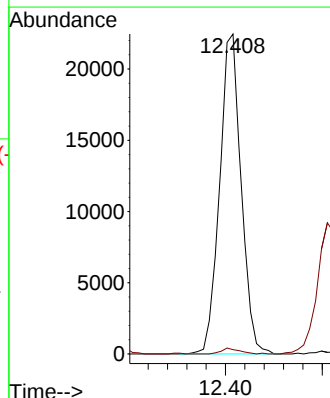
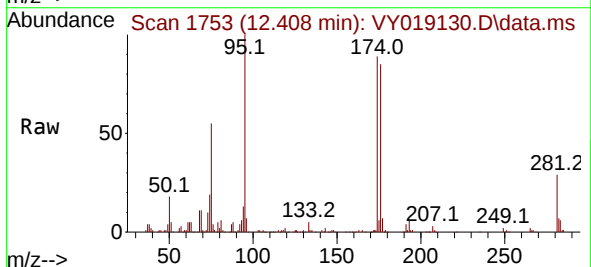
Instrument :  
MSVOA\_Y  
ClientSampleId :

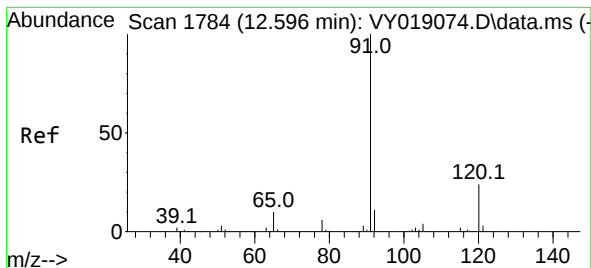
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 24811 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 3.1      | 41.4 62.2#  |
| 55 112.0    | 23.3 34.9#  |
| 61 2.8      | 22.6 33.8#  |



#76  
1,2,3-Trichloropropane  
Concen: 64.302 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. -0.146 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 34544 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 0.0      | 0.0 0.0     |





#78

n-propylbenzene

Concen: 4.280 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. -0.085 min

Lab File: VY019130.D

Acq: 19 Aug 2024 20:40

Instrument :

MSVOA\_Y

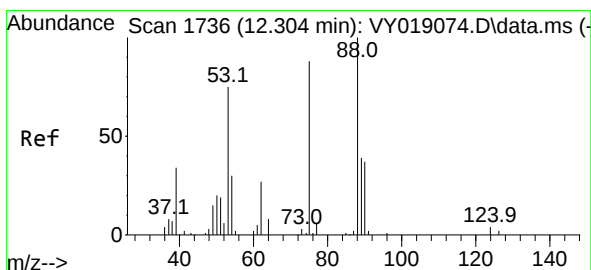
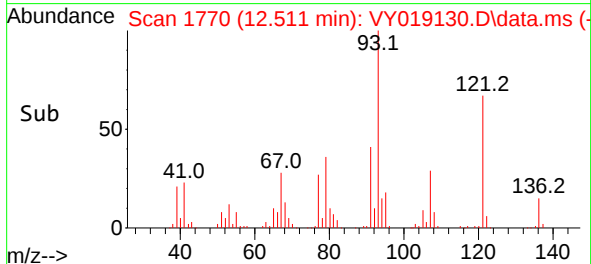
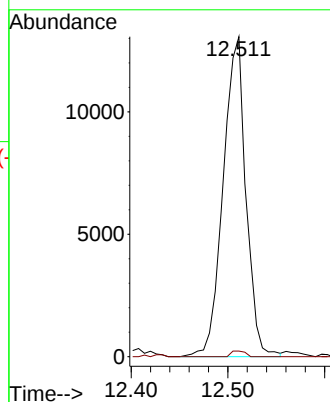
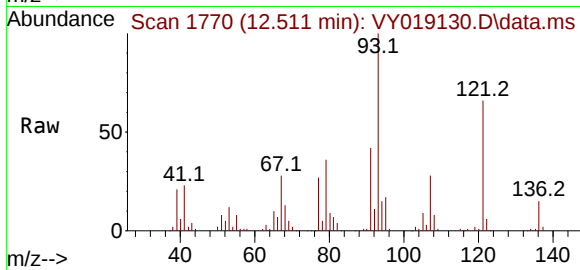
ClientSampleId :

Tgt Ion: 91 Resp: 21362

Ion Ratio Lower Upper

91 100

120 1.1 11.5 34.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 9.424 ug/l

RT: 12.261 min Scan# 1729

Delta R.T. -0.042 min

Lab File: VY019130.D

Acq: 19 Aug 2024 20:40

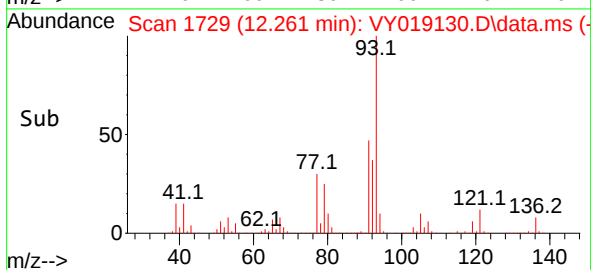
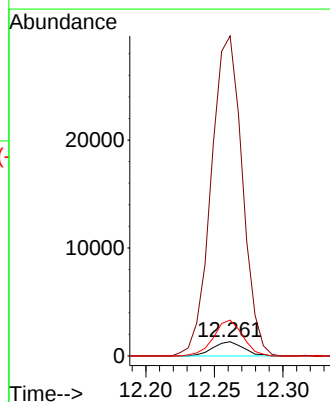
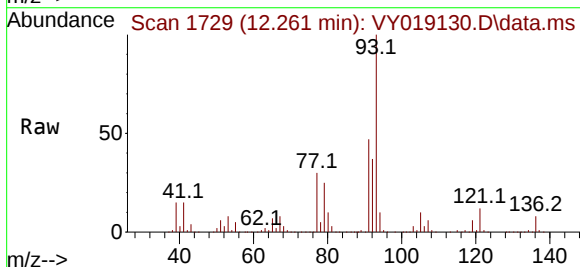
Tgt Ion: 75 Resp: 2050

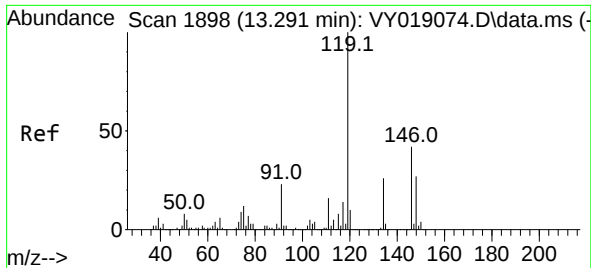
Ion Ratio Lower Upper

75 100

53 2283.4 66.8 100.2#

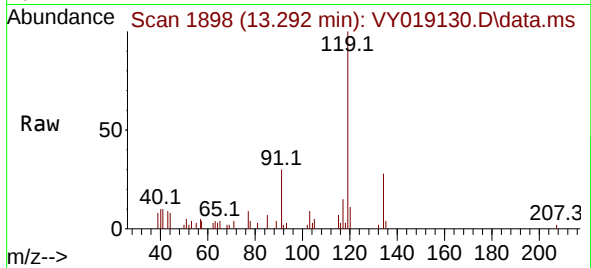
89 240.0 35.8 53.6#





#86  
p-Isopropyltoluene  
Concen: 1.163 ug/l  
RT: 13.292 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY019130.D  
Acq: 19 Aug 2024 20:40

Instrument :  
MSVOA\_Y  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 4372  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 33.7  | 13.1  | 39.3  |
| 91       | 0.0   | 10.7  | 32.1# |

