

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082824\  
 Data File : VY019336.D  
 Acq On : 28 Aug 2024 17:42  
 Operator : SY/MD  
 Sample : P3686-01  
 Misc : 3.97g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 29 01:36:59 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      | 7.701  | 168  | 137976   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.603  | 114  | 251048   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 233773   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 98696    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.049  | 65    | 79975    | 57.823   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 115.640% |
| 35) Dibromofluoromethane    | 7.622  | 113   | 78657    | 47.918   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 95.840%  |
| 50) Toluene-d8              | 10.103 | 98    | 285749   | 48.373   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 96.740%  |
| 62) 4-Bromofluorobenzene    | 12.401 | 95    | 95339    | 47.344   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | =    | 94.680%  |

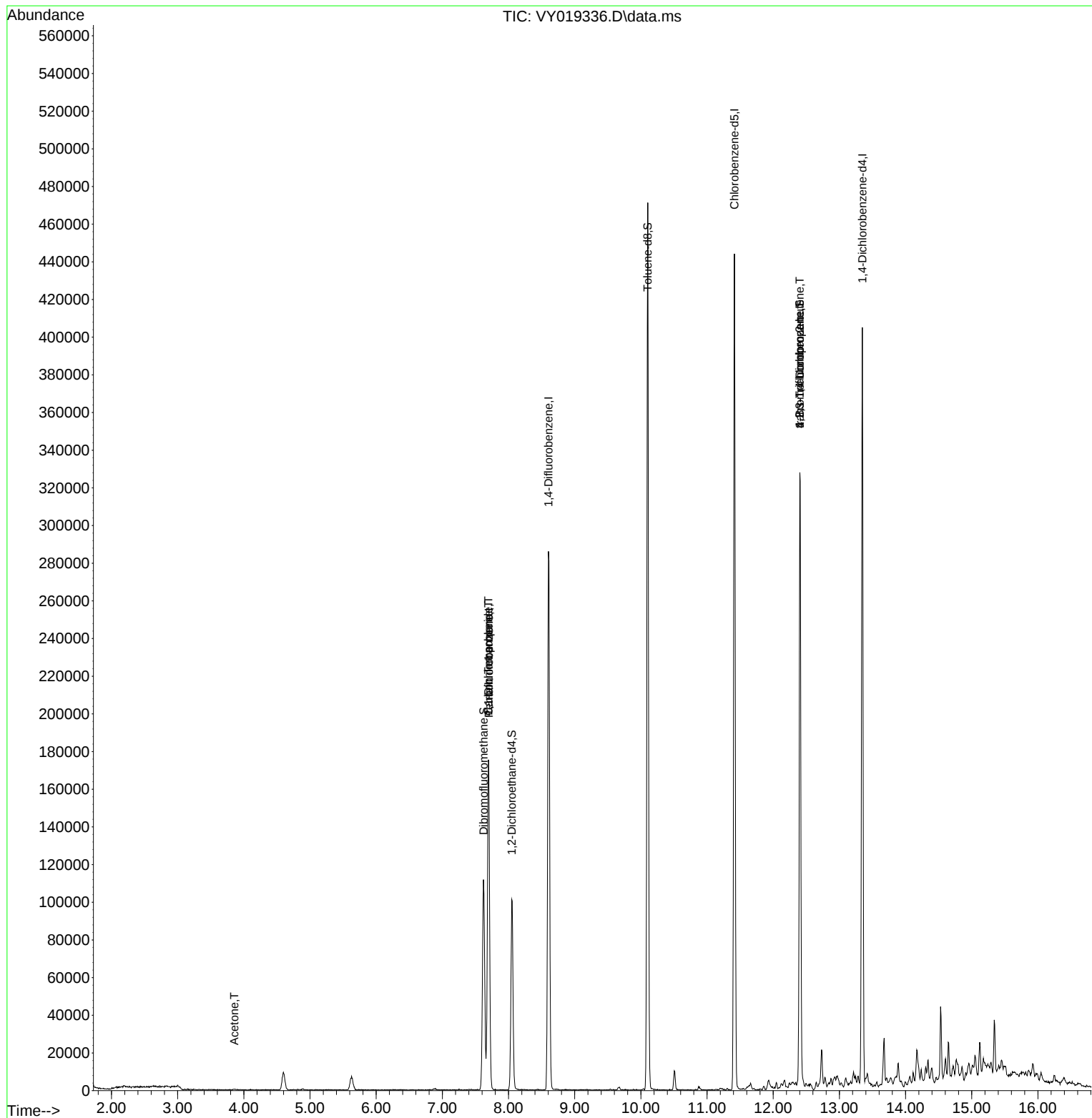
| Target Compounds              |        |     |       |           | Qvalue     |
|-------------------------------|--------|-----|-------|-----------|------------|
| 5) Bromomethane               | 2.598  | 94  | 243   | Below Cal | # 75       |
| 6) Chloroethane               | 2.714  | 64  | 18    | Below Cal | # 42       |
| 11) Tert butyl alcohol        | 4.817  | 59  | 48    | Below Cal | # 88       |
| 16) Acetone                   | 3.854  | 43  | 544   | 2.121     | ug/l 92    |
| 20) Methylene Chloride        | 4.592  | 84  | 7396  | Below Cal | 94         |
| 31) Cyclohexane               | 7.701  | 56  | 3207  | Below Cal | # 21       |
| 36) 1,1-Dichloropropene       | 7.695  | 75  | 10302 | 4.570     | ug/l # 51  |
| 38) Carbon Tetrachloride      | 7.695  | 117 | 13514 | 5.173     | ug/l # 18  |
| 76) 1,2,3-Trichloropropane    | 12.401 | 75  | 53610 | 55.079    | ug/l # 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.401 | 75  | 53610 | 136.028   | ug/l # 16  |

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

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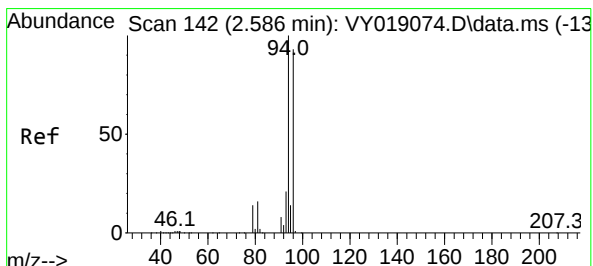
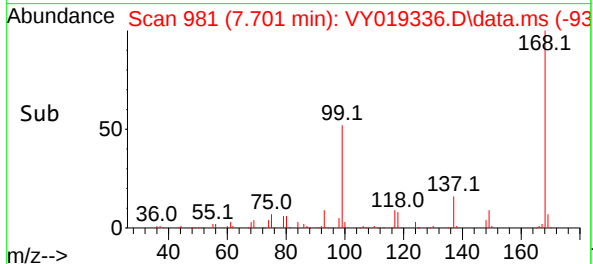
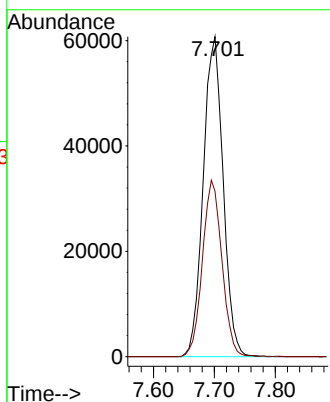
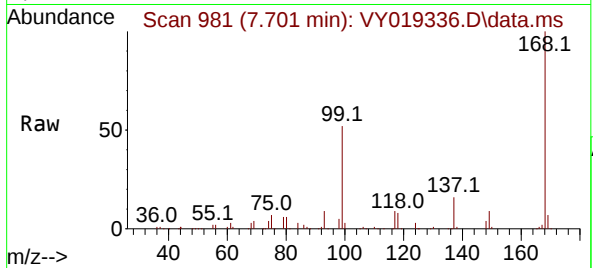




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.701 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

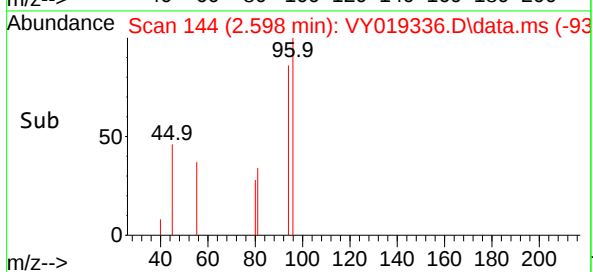
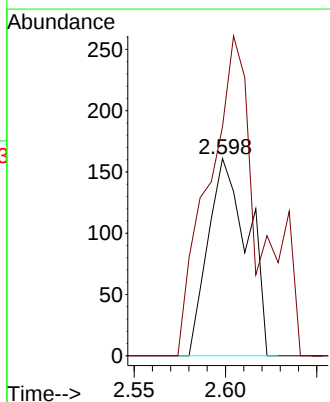
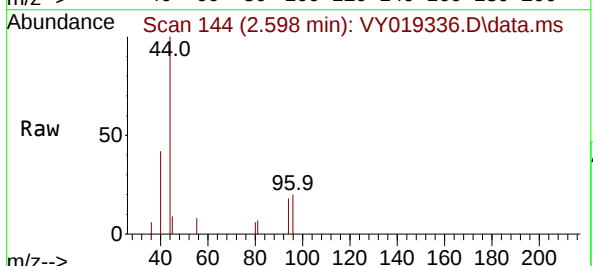
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion:168 Resp: 137976  
Ion Ratio Lower Upper  
168 100  
99 51.7 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.598 min Scan# 144  
Delta R.T. 0.012 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

Tgt Ion: 94 Resp: 243  
Ion Ratio Lower Upper  
94 100  
96 116.1 74.1 111.1#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.817 min Scan# 50

Delta R.T. -0.025 min

Lab File: VY019336.D

Acq: 28 Aug 2024 17:42

Instrument :

MSVOA\_Y

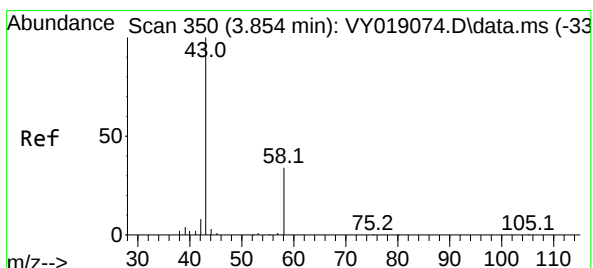
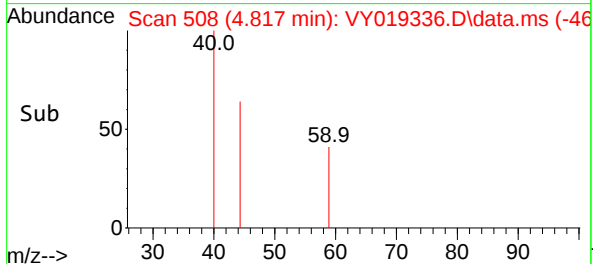
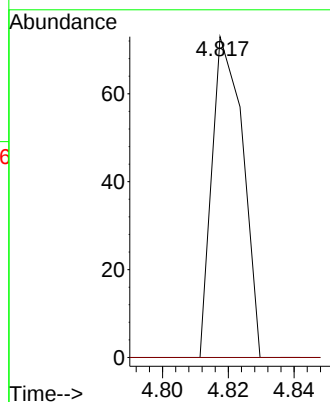
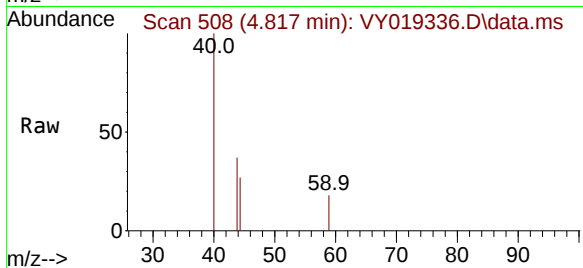
ClientSampleId :

Tgt Ion: 59 Resp: 48

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#16

Acetone

Concen: 2.121 ug/l

RT: 3.854 min Scan# 350

Delta R.T. 0.000 min

Lab File: VY019336.D

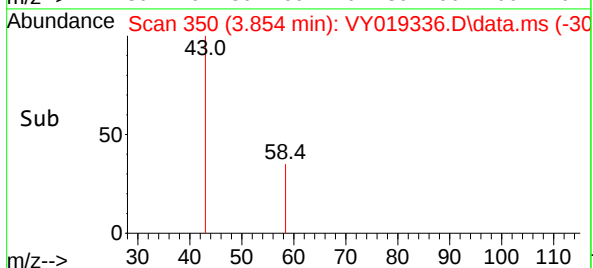
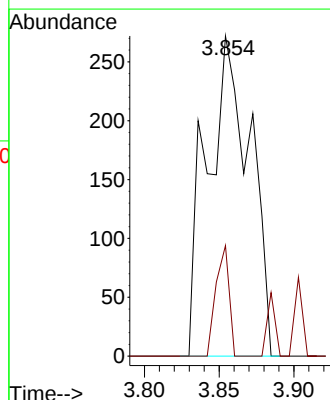
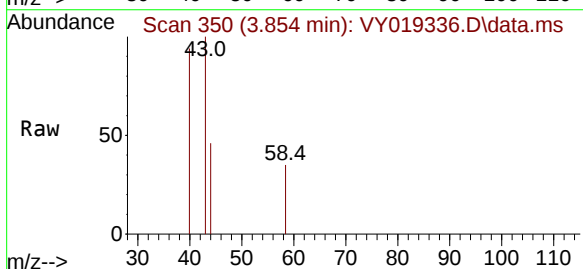
Acq: 28 Aug 2024 17:42

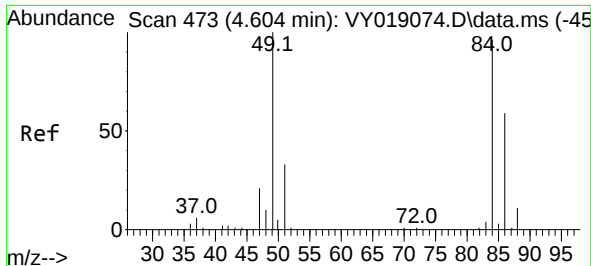
Tgt Ion: 43 Resp: 544

Ion Ratio Lower Upper

43 100

58 34.6 31.7 47.5





#20

Methylene Chloride

Concen: Below Cal

RT: 4.592 min Scan# 41

Delta R.T. -0.012 min

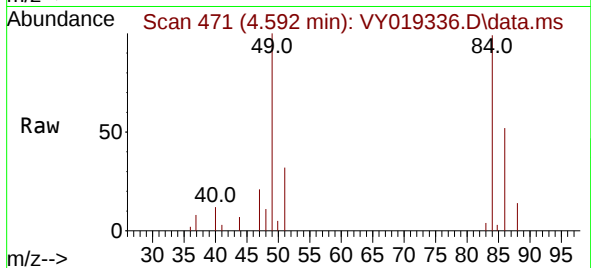
Lab File: VY019336.D

Acq: 28 Aug 2024 17:42

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion: 84 Resp: 7396

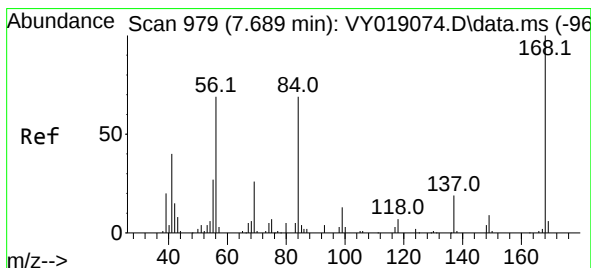
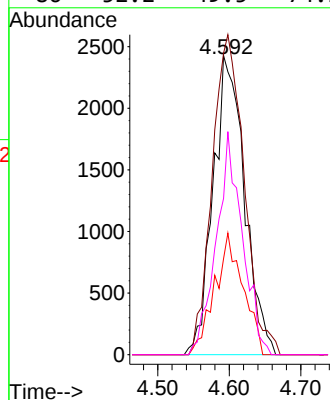
Ion Ratio Lower Upper

84 100

49 100.7 84.4 126.6

51 32.1 26.0 39.0

86 52.2 49.5 74.3



#31

Cyclohexane

Concen: Below Cal

RT: 7.701 min Scan# 981

Delta R.T. 0.012 min

Lab File: VY019336.D

Acq: 28 Aug 2024 17:42

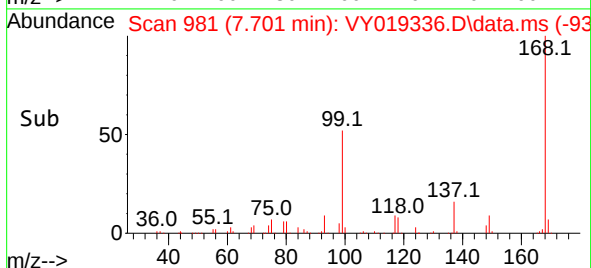
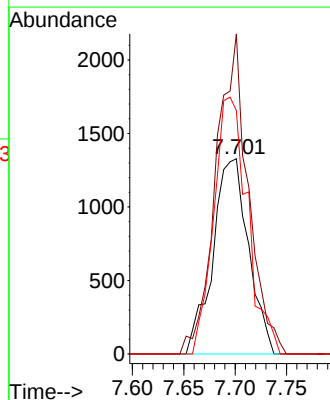
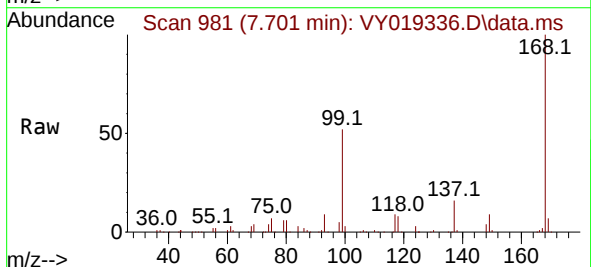
Tgt Ion: 56 Resp: 3207

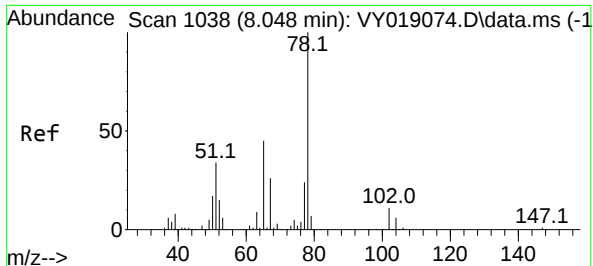
Ion Ratio Lower Upper

56 100

69 163.9 28.7 43.1#

84 124.7 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 57.823 ug/l

RT: 8.049 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY019336.D

Acq: 28 Aug 2024 17:42

Instrument :

MSVOA\_Y

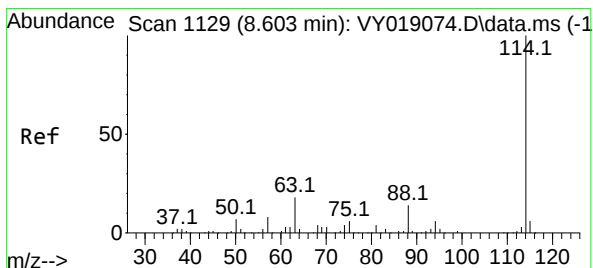
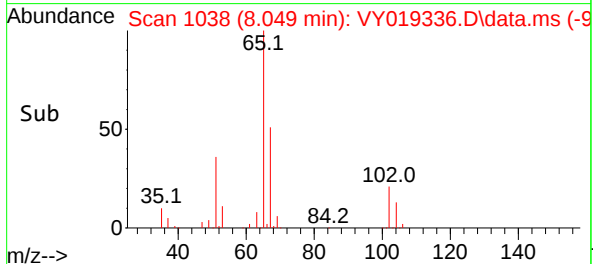
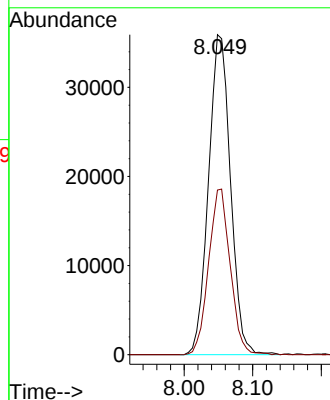
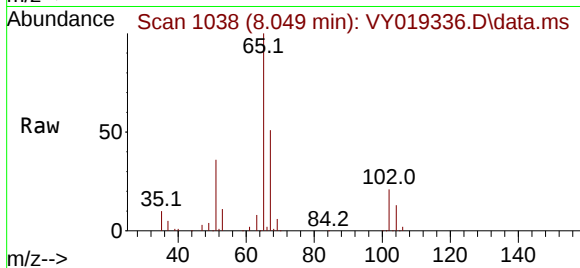
ClientSampleId :

Tgt Ion: 65 Resp: 79975

Ion Ratio Lower Upper

65 100

67 50.9 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.603 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VY019336.D

Acq: 28 Aug 2024 17:42

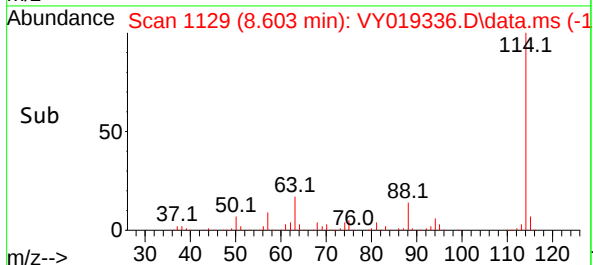
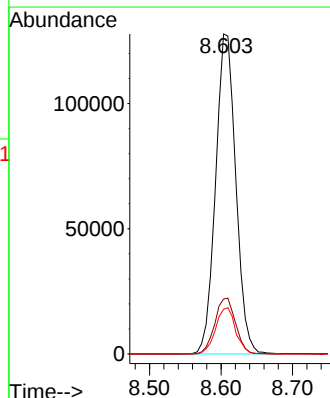
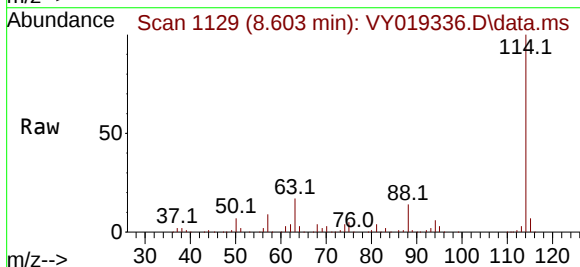
Tgt Ion: 114 Resp: 251048

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.0

88 13.9 0.0 27.2

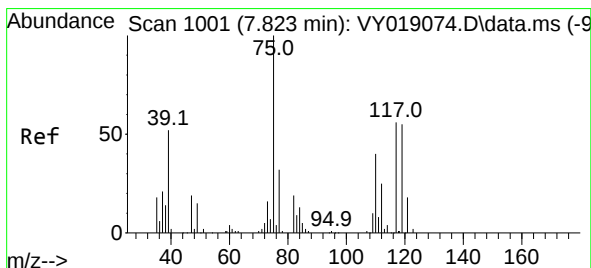
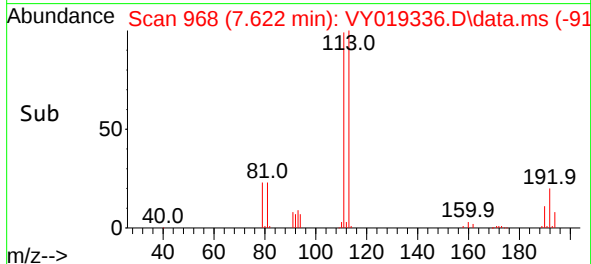
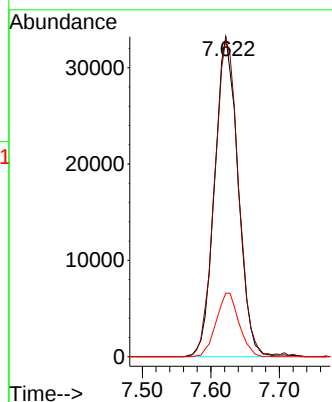
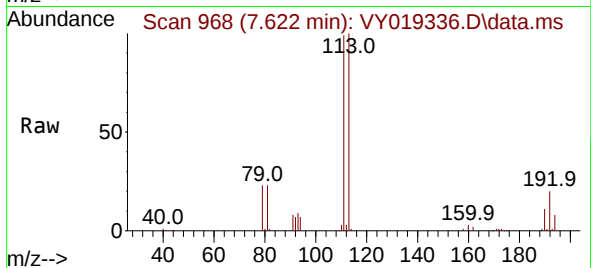




#35  
Dibromofluoromethane  
Concen: 47.918 ug/l  
RT: 7.622 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

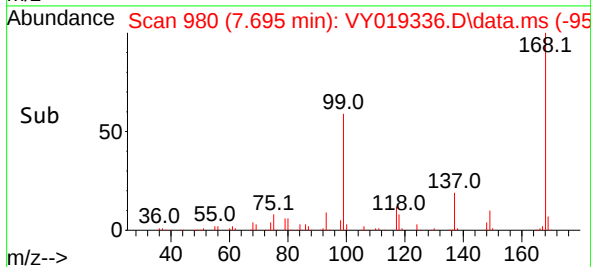
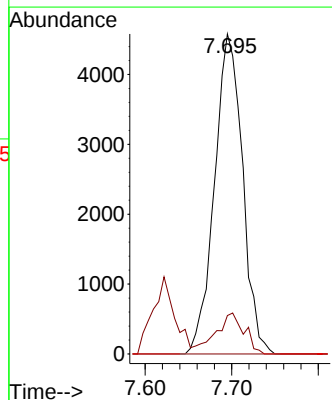
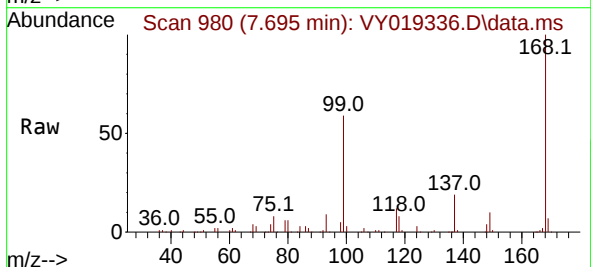
Instrument :  
MSVOA\_Y  
ClientSampleId :

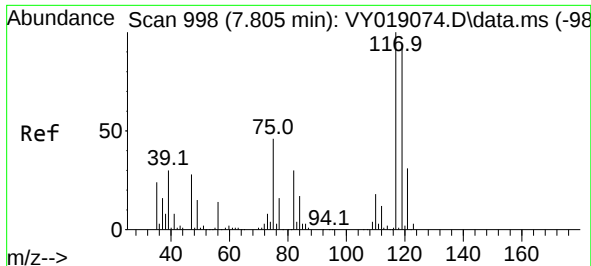
Tgt Ion:113 Resp: 78657  
Ion Ratio Lower Upper  
113 100  
111 101.0 82.2 123.4  
192 19.4 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 4.570 ug/l  
RT: 7.695 min Scan# 980  
Delta R.T. -0.128 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

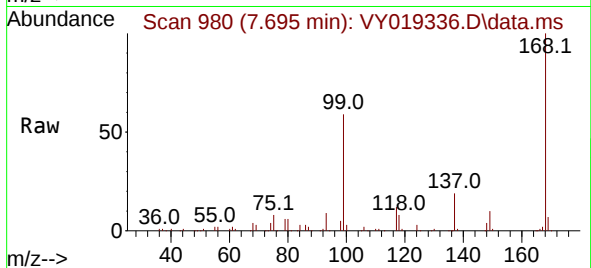
Tgt Ion: 75 Resp: 10302  
Ion Ratio Lower Upper  
75 100  
110 12.8 19.0 57.0#  
77 0.0 25.3 37.9#



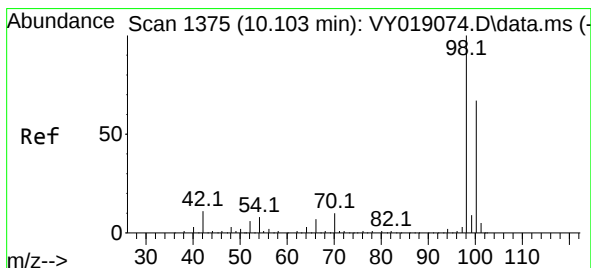
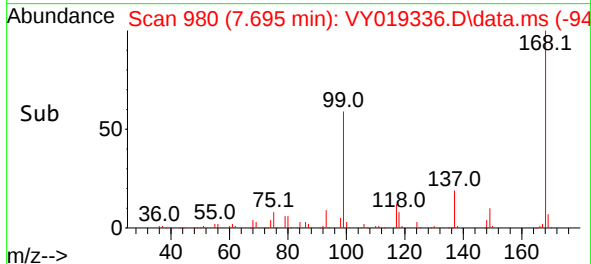
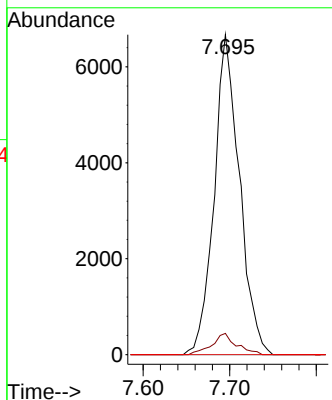


#38  
Carbon Tetrachloride  
Concen: 5.173 ug/l  
RT: 7.695 min Scan# 998  
Delta R.T. -0.109 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

Instrument :  
MSVOA\_Y  
ClientSampleId :

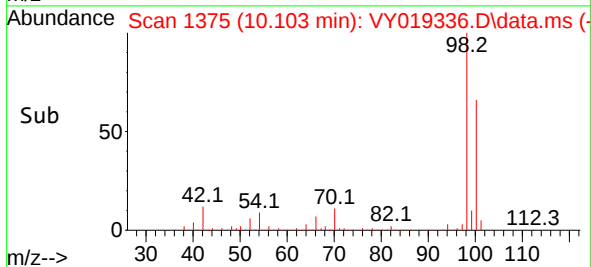
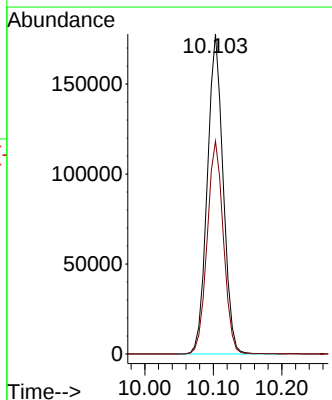
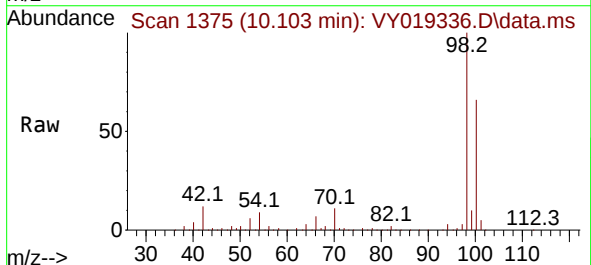


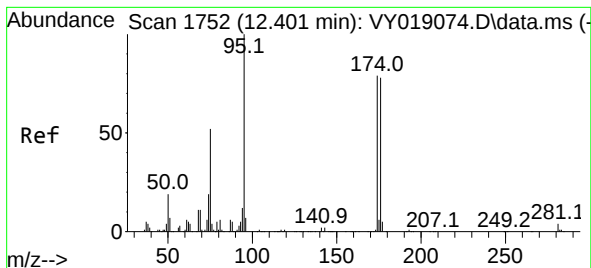
Tgt Ion:117 Resp: 13514  
Ion Ratio Lower Upper  
117 100  
119 6.7 75.8 113.6#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 48.373 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.000 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

Tgt Ion: 98 Resp: 285749  
Ion Ratio Lower Upper  
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100 68.1 52.0 78.0

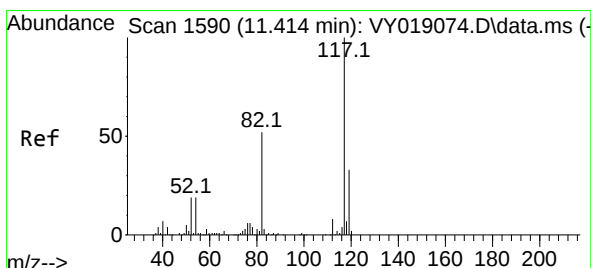
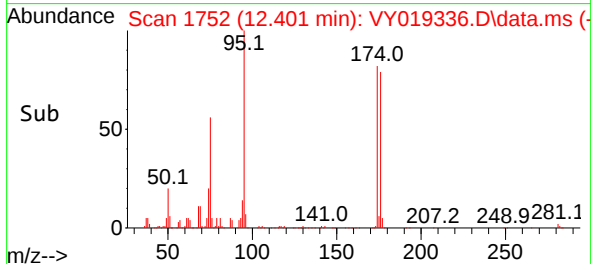
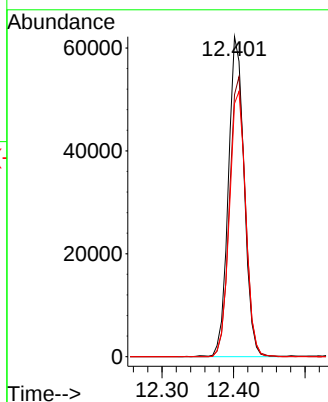
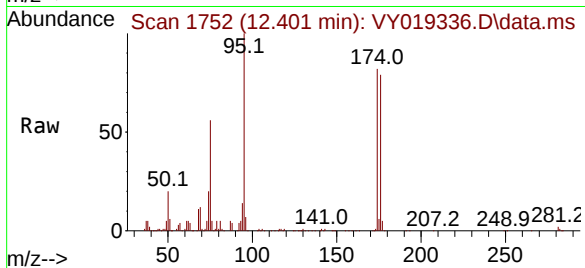




#62  
4-Bromofluorobenzene  
Concen: 47.344 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

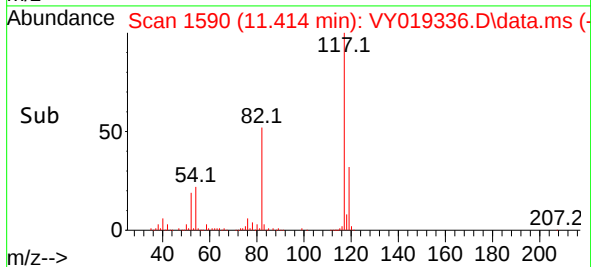
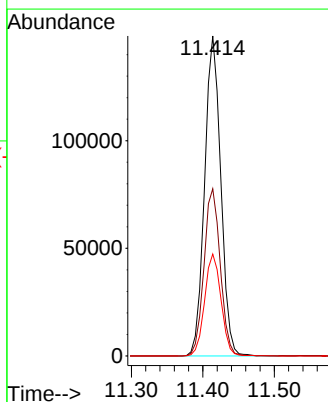
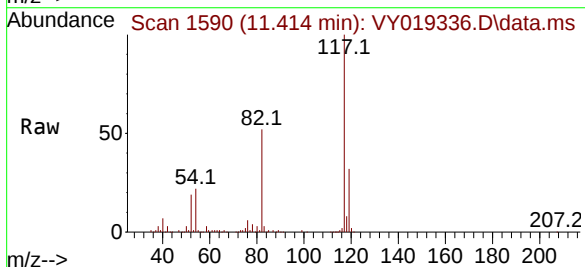
Instrument :  
MSVOA\_Y  
ClientSampleId :

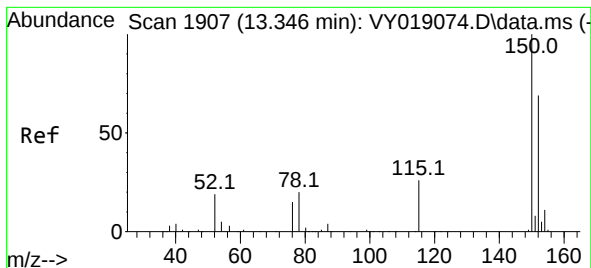
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 95339 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 88.2  | 0.0   | 175.6 |
| 176      | 85.6  | 0.0   | 171.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY019336.D  
Acq: 28 Aug 2024 17:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 233773 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 52.3  | 42.4  | 63.6   |
| 119      | 31.8  | 25.9  | 38.9   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019336.D

Acq: 28 Aug 2024 17:42

Instrument :

MSVOA\_Y

ClientSampleId :

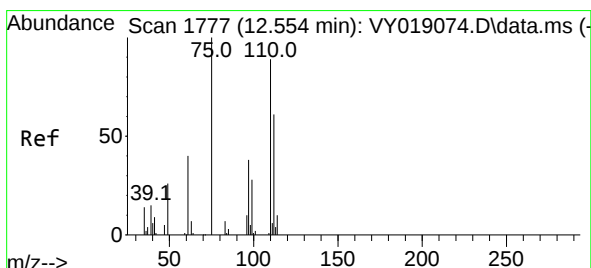
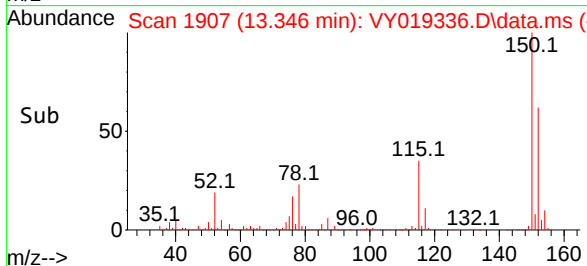
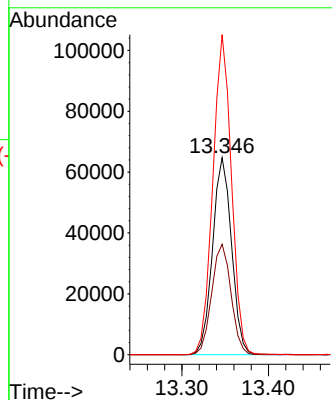
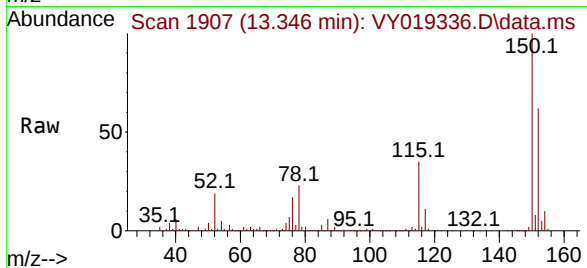
Tgt Ion:152 Resp: 98696

Ion Ratio Lower Upper

152 100

115 57.0 28.2 84.7

150 158.9 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 55.079 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY019336.D

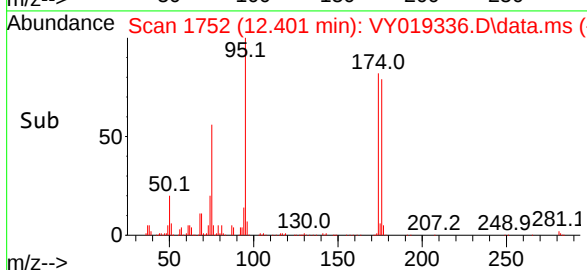
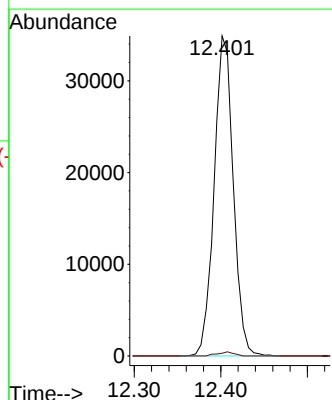
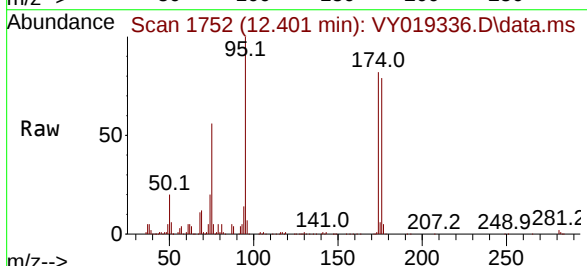
Acq: 28 Aug 2024 17:42

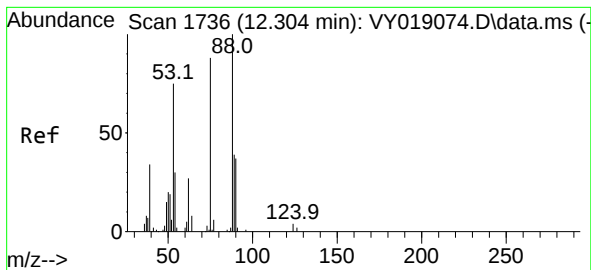
Tgt Ion: 75 Resp: 53610

Ion Ratio Lower Upper

75 100

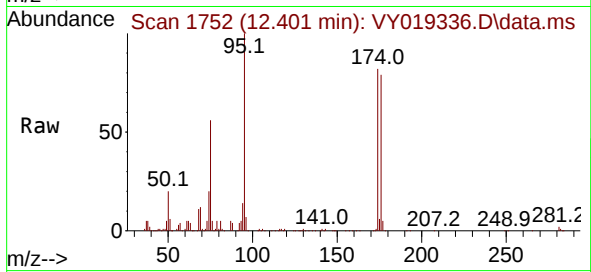
77 1.1 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 136.028 ug/l  
 RT: 12.401 min Scan# 11  
 Delta R.T. 0.098 min  
 Lab File: VY019336.D  
 Acq: 28 Aug 2024 17:42

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 66.8  | 100.2# |
| 89      | 0.0   | 35.8  | 53.6#  |

