

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051523\  
 Data File : VY013742.D  
 Acq On : 15 May 2023 17:37  
 Operator : KP/MD  
 Sample : 02750-03  
 Misc : 4.99g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PAT-2-051123

Quant Time: May 16 01:33:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

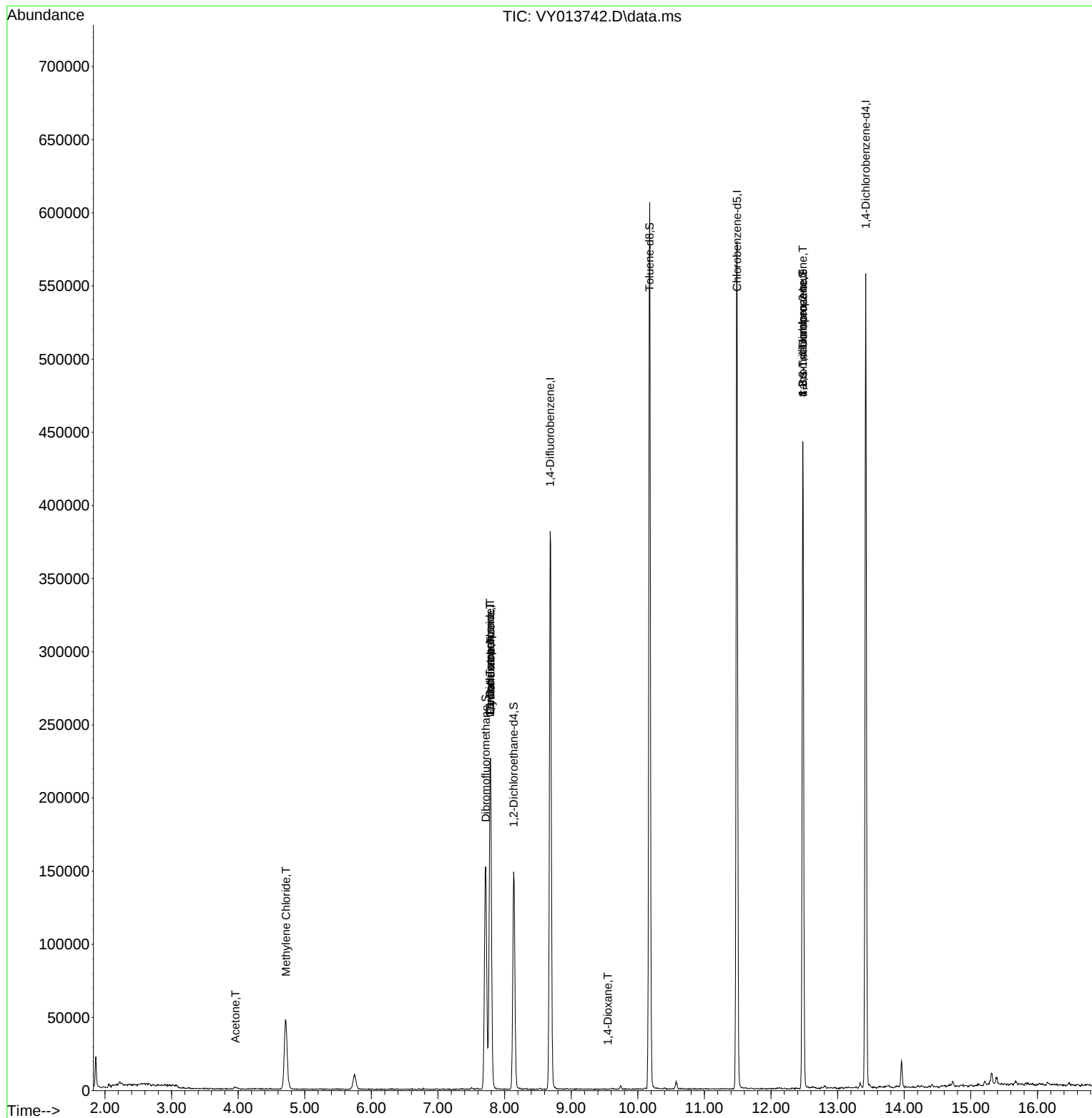
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 177374              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 313664              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 303278              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 132544              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 117293              | 60.323 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 120.640% |        |        |          |
| 35) Dibromofluoromethane      | 7.715          | 113  | 106951              | 54.213 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 108.420% |        |        |          |
| 50) Toluene-d8                | 10.178         | 98   | 388814              | 55.402 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 110.800% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 125523              | 53.054 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 106.100% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 16) Acetone                   | 3.960          | 43   | 2516                | 3.286  | ug/l # | 83       |
| 20) Methylene Chloride        | 4.716          | 84   | 33419               | 6.969  | ug/l   | 91       |
| 31) Cyclohexane               | 7.789          | 56   | 4508                | 1.295  | ug/l # | 39       |
| 36) 1,1-Dichloropropene       | 7.782          | 75   | 14754               | 4.506  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.782          | 117  | 17730               | 5.167  | ug/l # | 15       |
| 49) 1,4-Dioxane               | 9.550          | 88   | 33                  | 1.601  | ug/l # | 25       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 67709               | 37.879 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 67709               | 77.483 | ug/l # | 13       |
| -----                         |                |      |                     |        |        |          |

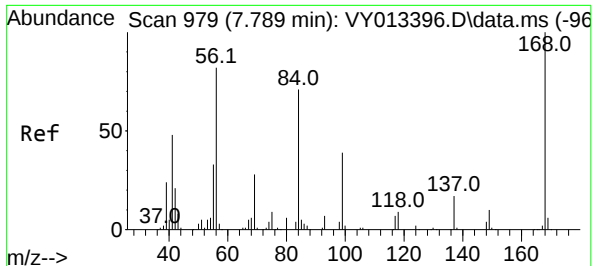
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Apr 25 02:39:58 2023  
Response via : Initial Calibration

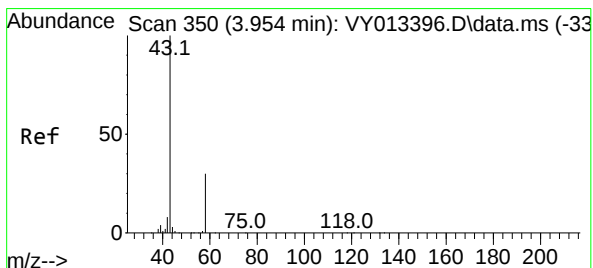
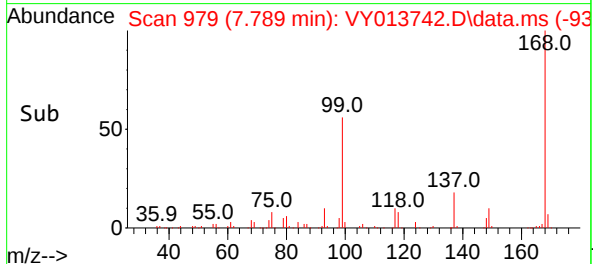
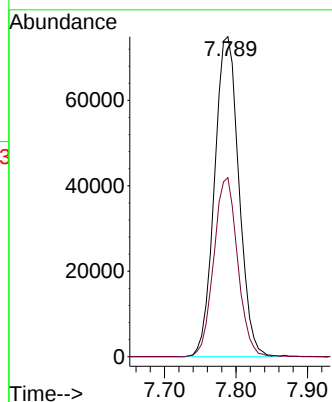
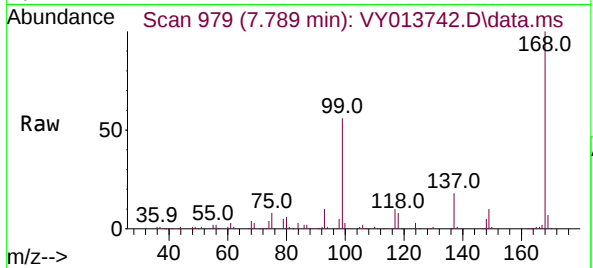




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

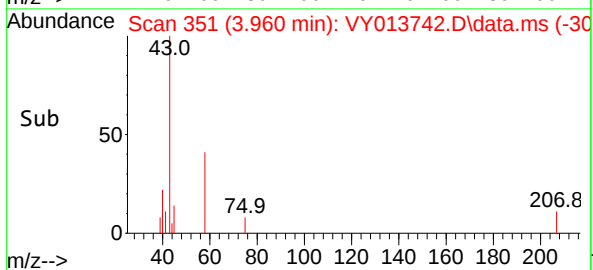
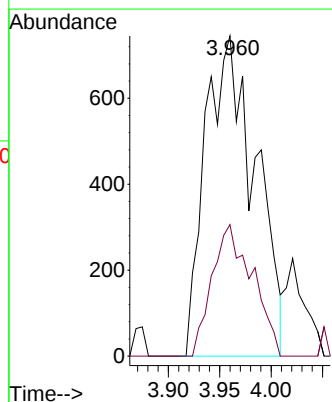
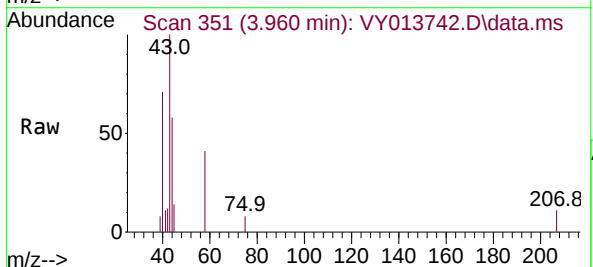
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PAT-2-051123

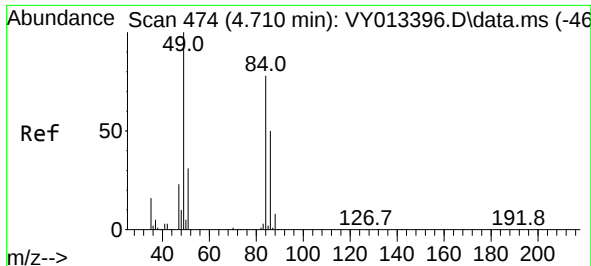
Tgt Ion:168 Resp: 177374  
Ion Ratio Lower Upper  
168 100  
99 56.0 41.8 62.6



#16  
Acetone  
Concen: 3.286 ug/l  
RT: 3.960 min Scan# 351  
Delta R.T. 0.012 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

Tgt Ion: 43 Resp: 2516  
Ion Ratio Lower Upper  
43 100  
58 41.1 25.4 38.0#

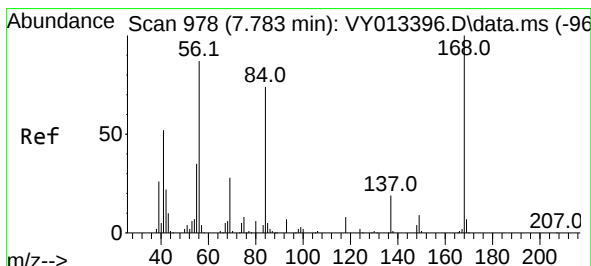
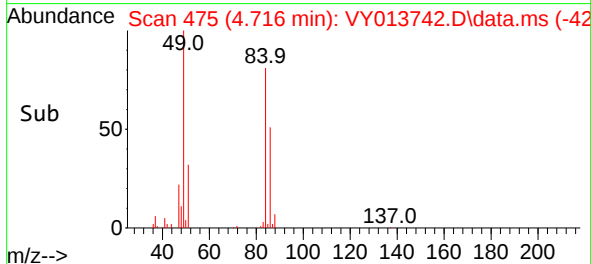
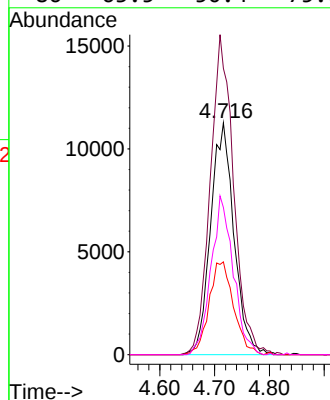
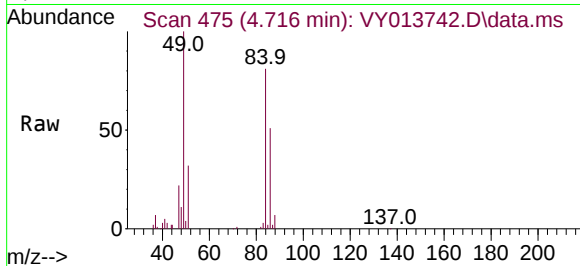




#20  
Methylene Chloride  
Concen: 6.969 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

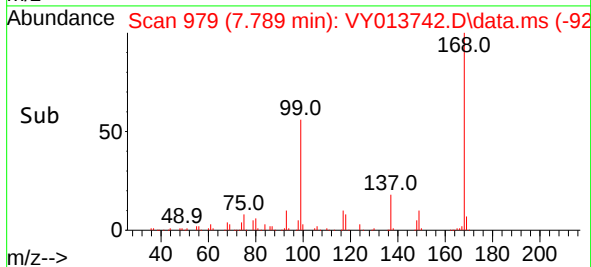
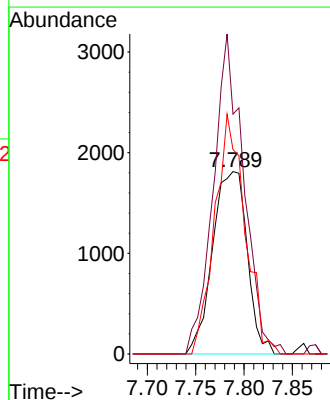
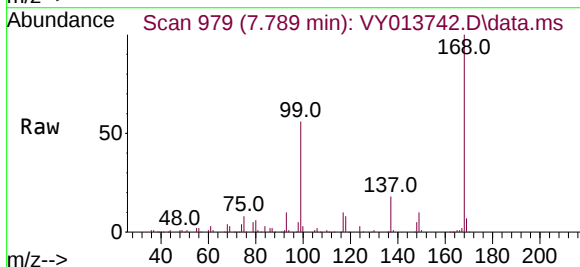
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PAT-2-051123

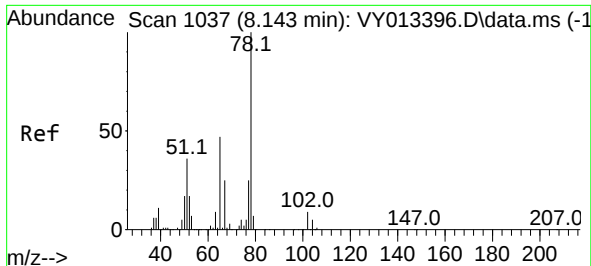
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 33419 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 123.4    | 88.0 132.0  |
| 51 40.0     | 27.4 41.0   |
| 86 63.5     | 50.4 75.6   |



#31  
Cyclohexane  
Concen: 1.295 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. 0.006 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion: 56 | Resp: | 4508  |        |
| Ion         | Ratio | Lower | Upper  |
| 56          | 100   |       |        |
| 69          | 131.4 | 29.2  | 43.8#  |
| 84          | 112.0 | 73.0  | 109.6# |





#33

1,2-Dichloroethane-d4

Concen: 60.323 ug/l

RT: 8.136 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY013742.D

Acq: 15 May 2023 17:37

Instrument :

MSVOA\_Y

ClientSampleId :

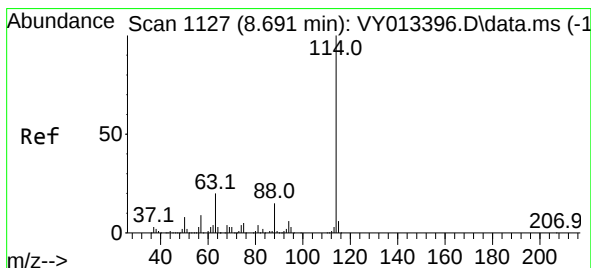
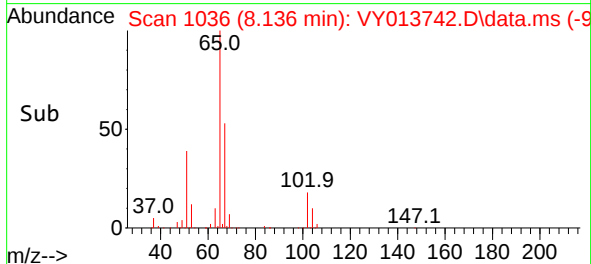
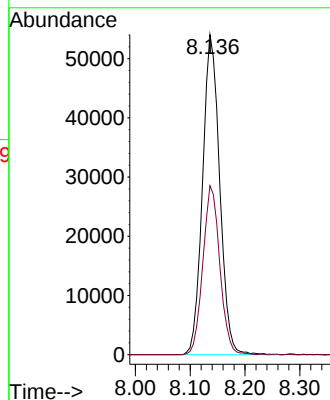
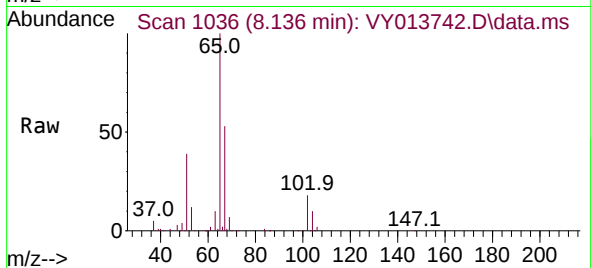
PAT-2-051123

Tgt Ion: 65 Resp: 117293

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013742.D

Acq: 15 May 2023 17:37

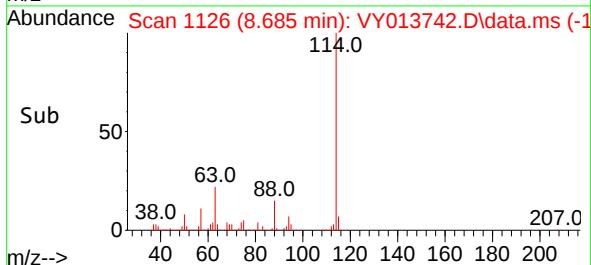
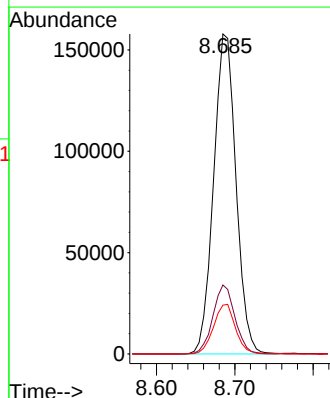
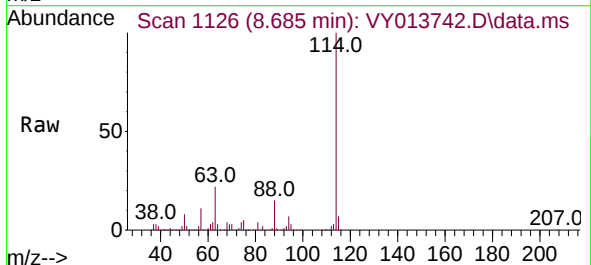
Tgt Ion: 114 Resp: 313664

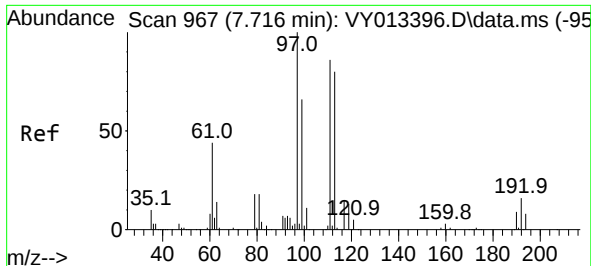
Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.6

88 15.2 0.0 28.8

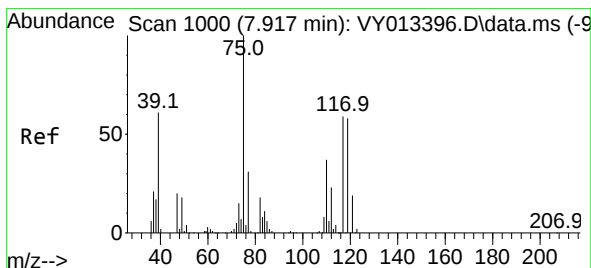
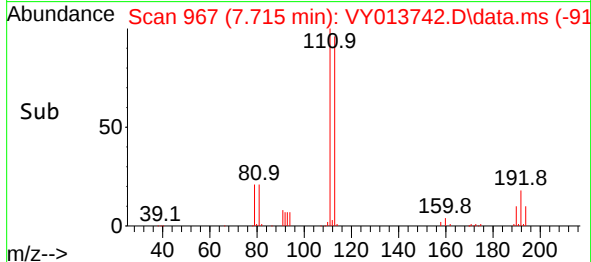
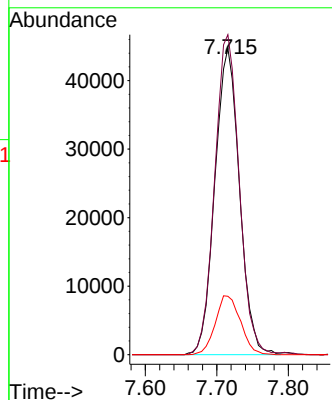
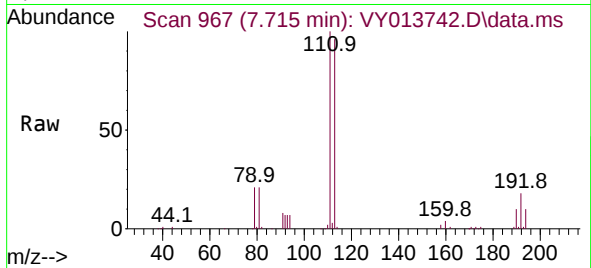




#35  
Dibromofluoromethane  
Concen: 54.213 ug/l  
RT: 7.715 min Scan# 91  
Delta R.T. -0.001 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

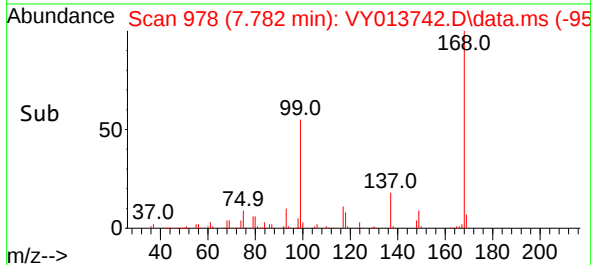
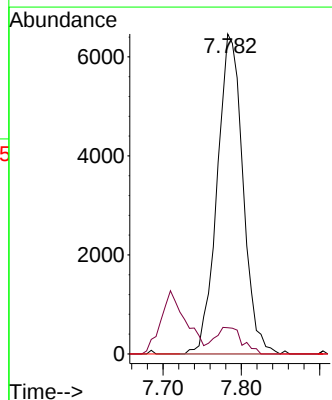
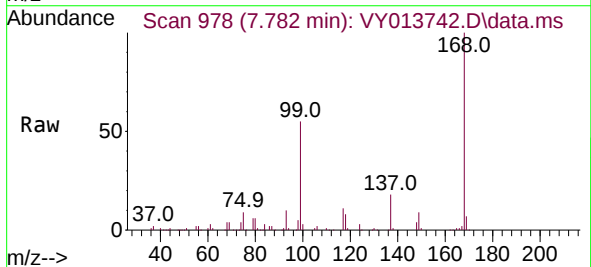
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PAT-2-051123

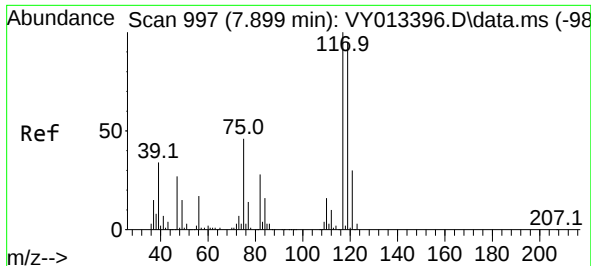
Tgt Ion:113 Resp: 106951  
Ion Ratio Lower Upper  
113 100  
111 103.8 82.2 123.2  
192 19.6 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 4.506 ug/l  
RT: 7.782 min Scan# 978  
Delta R.T. -0.135 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

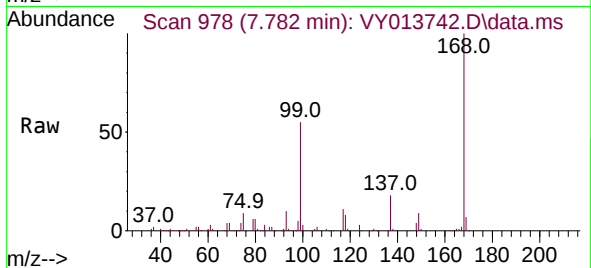
Tgt Ion: 75 Resp: 14754  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.7 56.1#  
77 0.0 24.6 37.0#



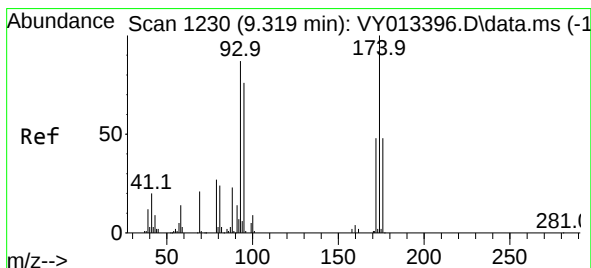
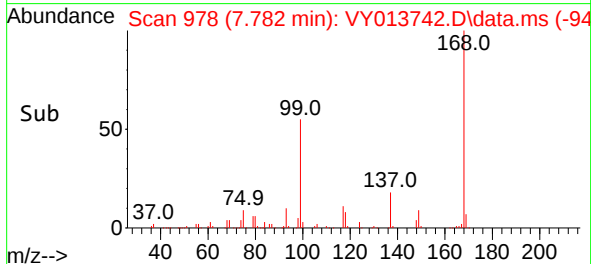
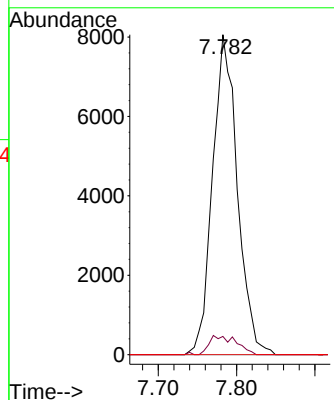


#38  
Carbon Tetrachloride  
Concen: 5.167 ug/l  
RT: 7.782 min Scan# 91  
Delta R.T. -0.117 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PAT-2-051123

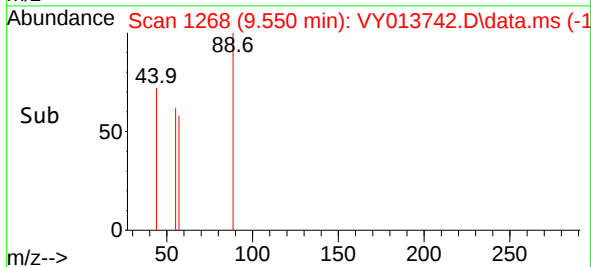
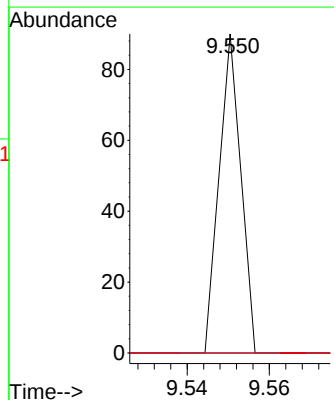
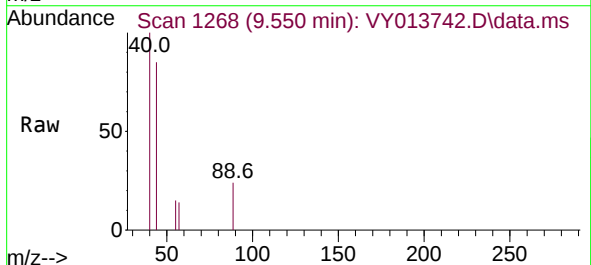


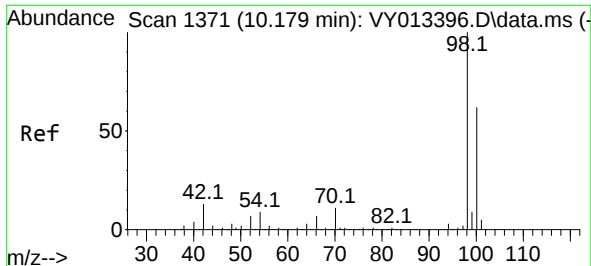
Tgt Ion: 117 Resp: 17730  
Ion Ratio Lower Upper  
117 100  
119 5.7 79.0 118.6#  
121 0.0 26.6 40.0#



#49  
1,4-Dioxane  
Concen: 1.601 ug/l  
RT: 9.550 min Scan# 1268  
Delta R.T. 0.243 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

Tgt Ion: 88 Resp: 33  
Ion Ratio Lower Upper  
88 100  
43 0.0 16.8 25.2#  
58 0.0 54.3 81.5#

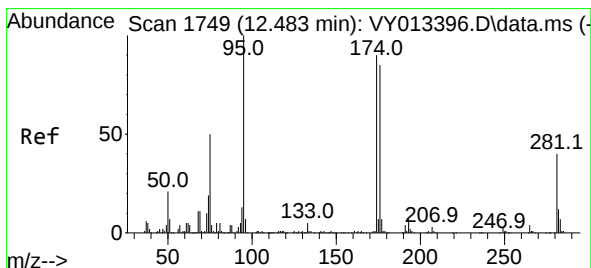
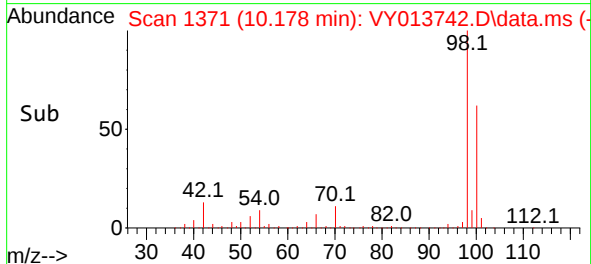
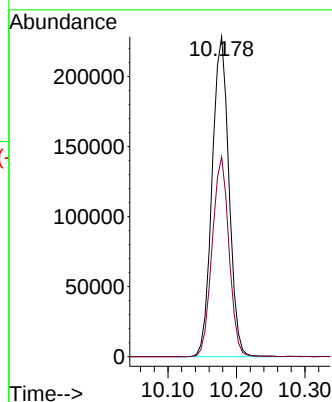
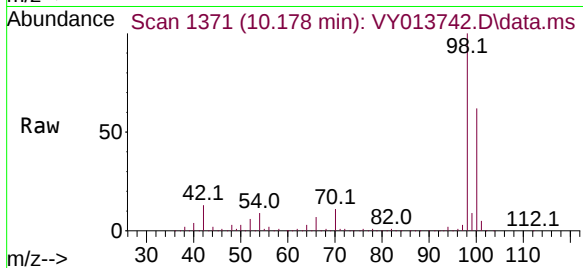




#50  
Toluene-d8  
Concen: 55.402 ug/l  
RT: 10.178 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

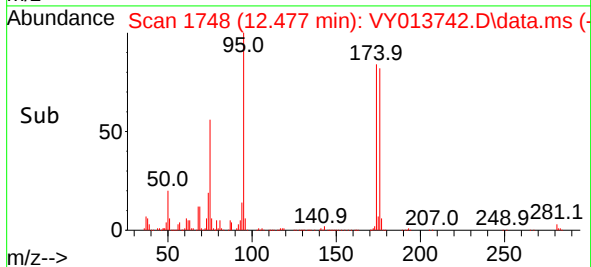
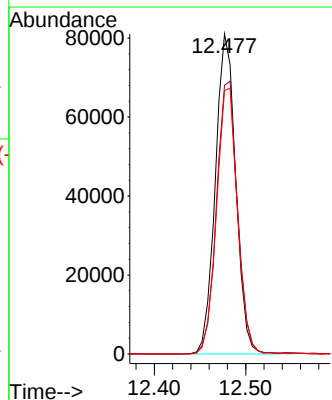
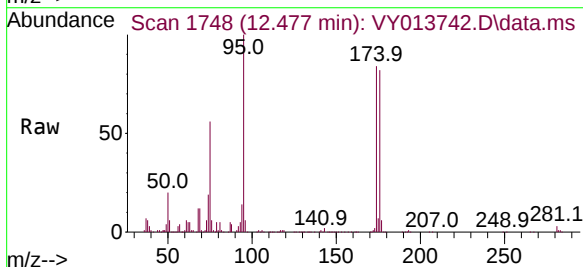
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PAT-2-051123

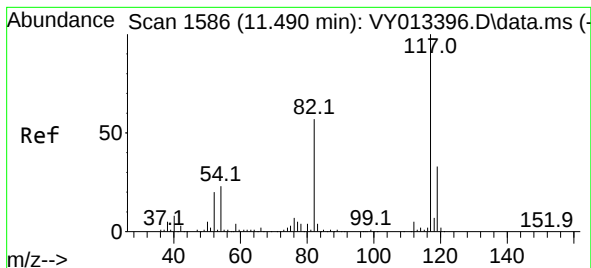
Tgt Ion: 98 Resp: 388814  
Ion Ratio Lower Upper  
98 100  
100 62.4 50.5 75.7



#62  
4-Bromofluorobenzene  
Concen: 53.054 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

Tgt Ion: 95 Resp: 125523  
Ion Ratio Lower Upper  
95 100  
174 87.8 0.0 182.0  
176 85.3 0.0 175.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013742.D

Acq: 15 May 2023 17:37

Instrument :

MSVOA\_Y

ClientSampleId :

PAT-2-051123

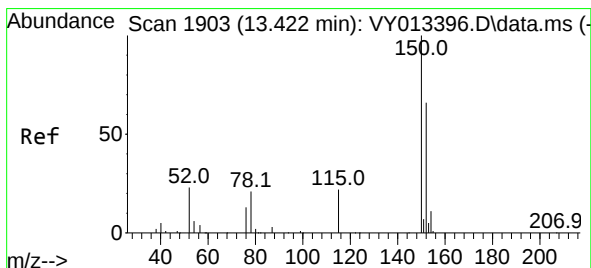
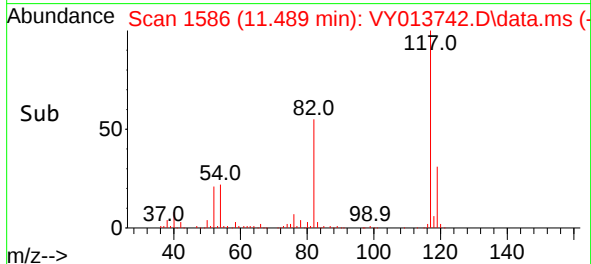
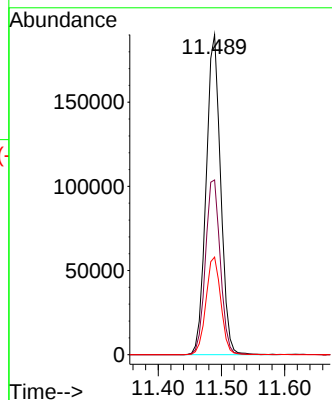
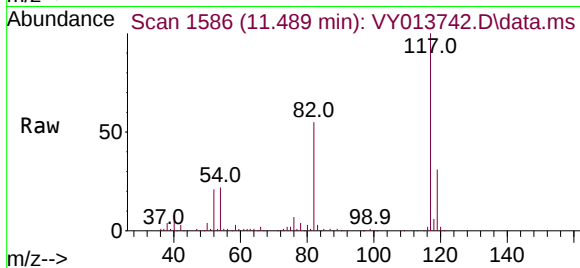
Tgt Ion:117 Resp: 303278

Ion Ratio Lower Upper

117 100

82 54.6 43.0 64.6

119 30.5 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.000 min

Lab File: VY013742.D

Acq: 15 May 2023 17:37

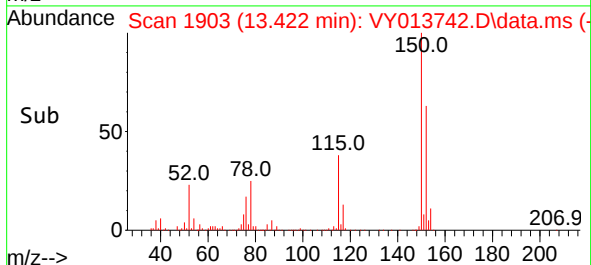
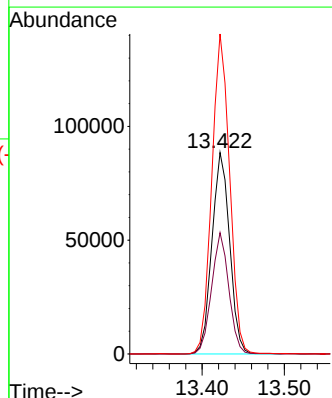
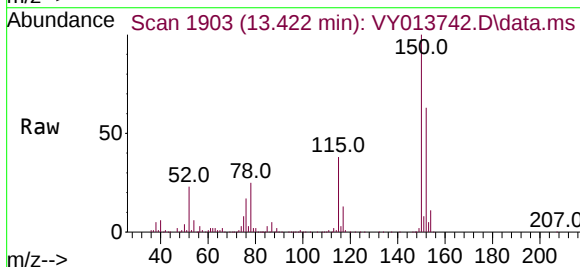
Tgt Ion:152 Resp: 132544

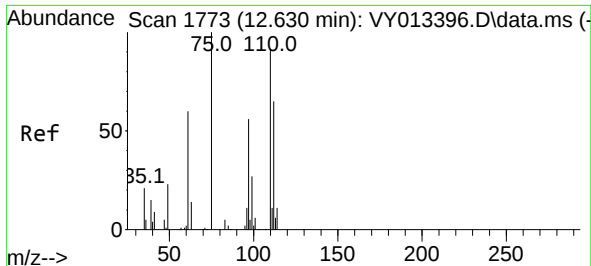
Ion Ratio Lower Upper

152 100

115 58.6 28.1 84.2

150 159.7 0.0 352.0

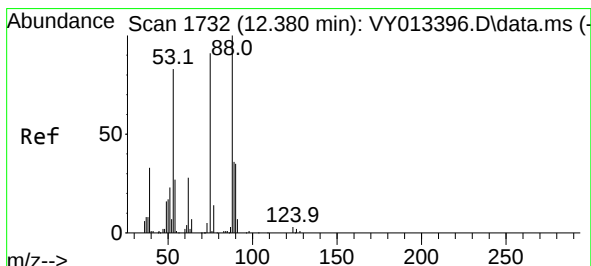
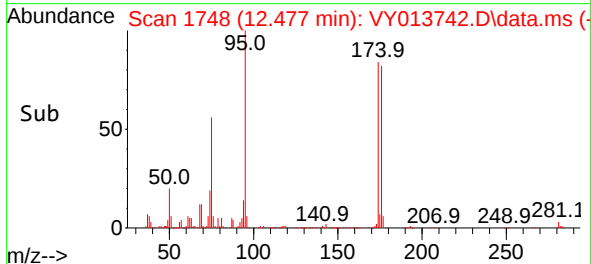
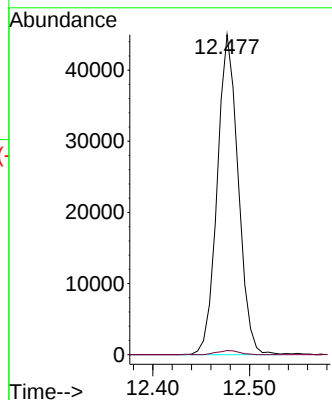
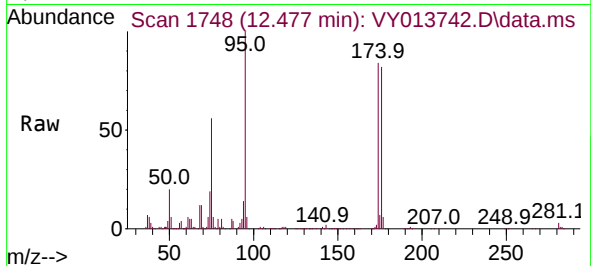




#76  
1,2,3-Trichloropropane  
Concen: 37.879 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PAT-2-051123

Tgt Ion: 75 Resp: 67709  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.483 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.098 min  
Lab File: VY013742.D  
Acq: 15 May 2023 17:37

Tgt Ion: 75 Resp: 67709  
Ion Ratio Lower Upper  
75 100  
53 0.2 73.2 109.8#  
89 0.2 38.0 57.0#

