

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092023\  
 Data File : VY015654.D  
 Acq On : 20 Sep 2023 13:21  
 Operator : SY/MD  
 Sample : 04491-03  
 Misc : 5.15g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Sep 21 03:40:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
 Response via : Initial Calibration

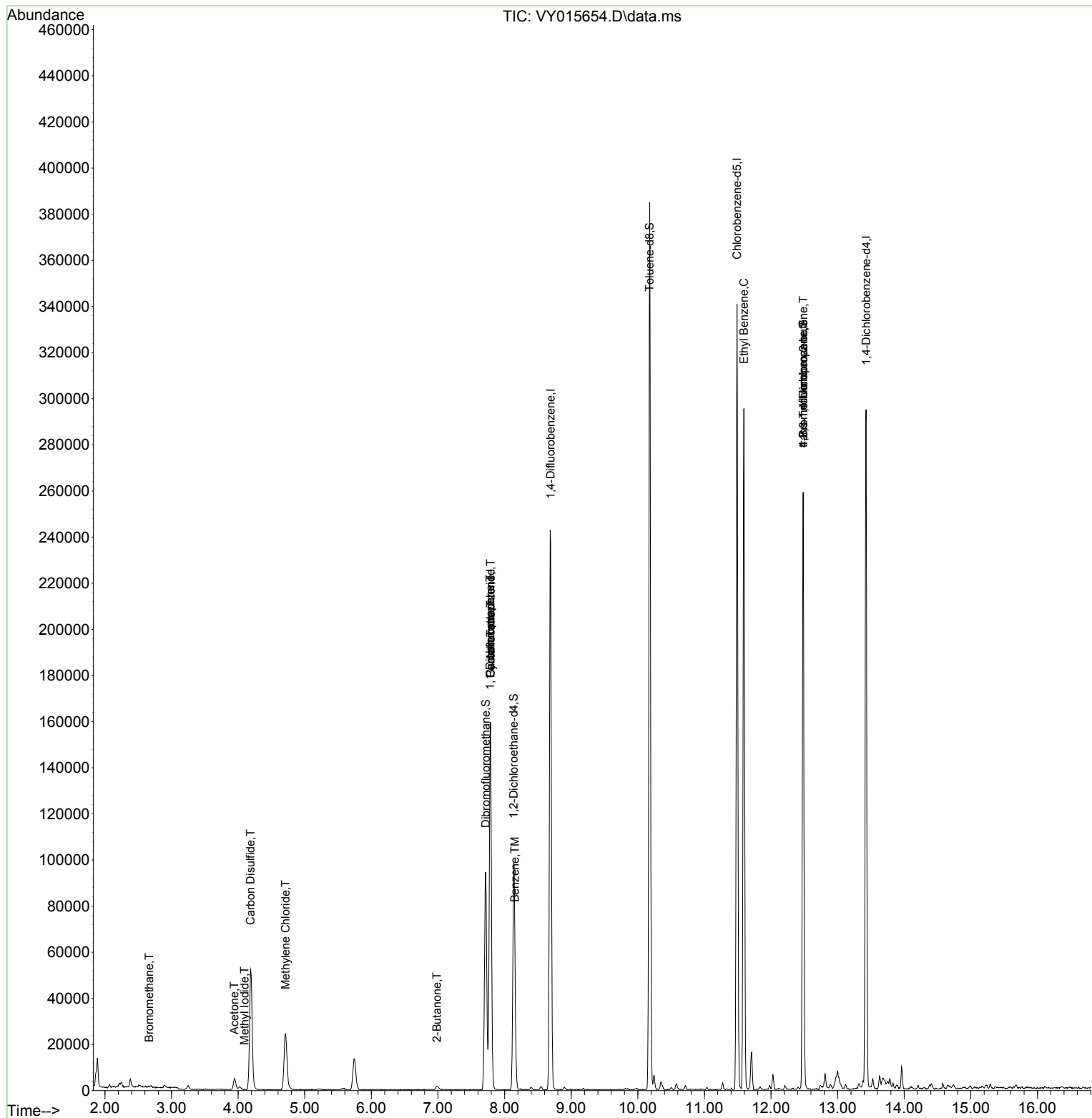
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 121863              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 209530              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 183628              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 74984               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 74242               | 55.370    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 110.740% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 66374               | 52.925    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 105.860% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 245771              | 57.798    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 115.600% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 75302               | 45.126    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 90.260%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.662          | 94   | 20                  | 2.573     | ug/l # | 2        |
| 10) Methyl Iodide             | 4.095          | 142  | 20                  | 2.742     | ug/l # | 38       |
| 11) Tert butyl alcohol        | 4.942          | 59   | 116                 | Below Cal | #      | 89       |
| 16) Acetone                   | 3.942          | 43   | 8660                | 12.069    | ug/l   | 95       |
| 17) Carbon Disulfide          | 4.186          | 76   | 106889              | 51.321    | ug/l   | 98       |
| 20) Methylene Chloride        | 4.710          | 84   | 18586               | 7.736     | ug/l   | 95       |
| 25) 2-Butanone                | 6.984          | 43   | 1221                | 1.204     | ug/l # | 76       |
| 31) Cyclohexane               | 7.789          | 56   | 2771                | 1.492     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 9906                | 5.342     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 12815               | 6.367     | ug/l # | 15       |
| 40) Benzene                   | 8.155          | 78   | 9807                | 1.734     | ug/l   | 93       |
| 67) Ethyl Benzene             | 11.593         | 91   | 204638              | 29.210    | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 39587               | 33.093    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 39587               | 74.522    | ug/l # | 10       |
| -----                         |                |      |                     |           |        |          |

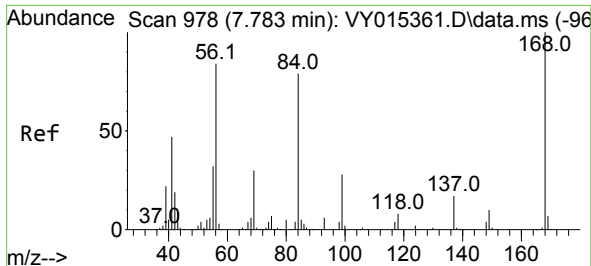
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092023\  
Data File : VY015654.D  
Acq On : 20 Sep 2023 13:21  
Operator : SY/MD  
Sample : 04491-03  
Misc : 5.15g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Sep 21 03:40:11 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 20 01:39:40 2023  
Response via : Initial Calibration

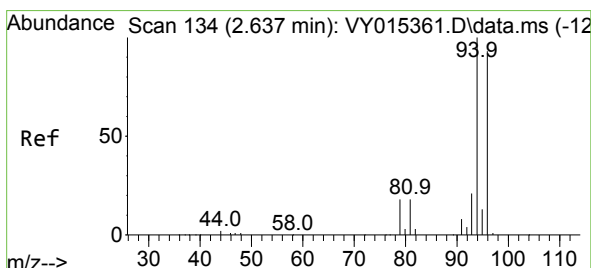
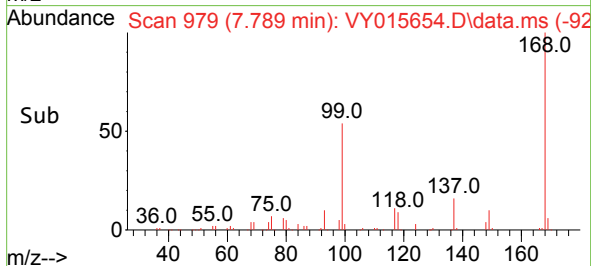
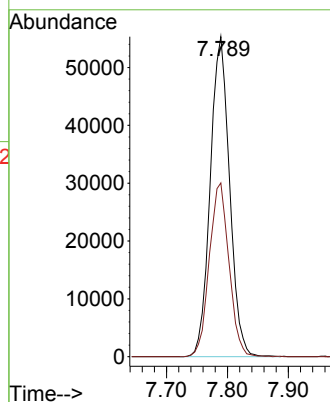
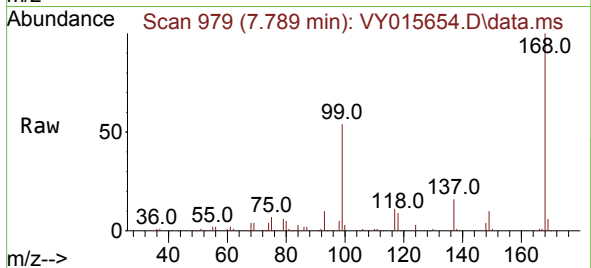




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

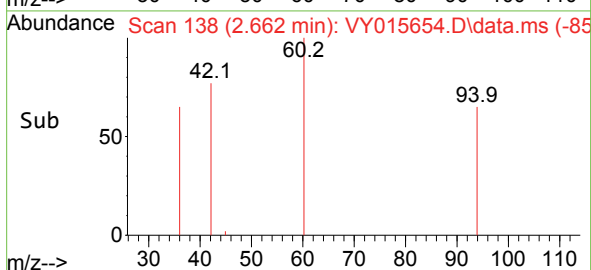
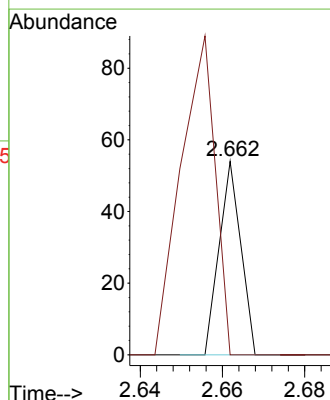
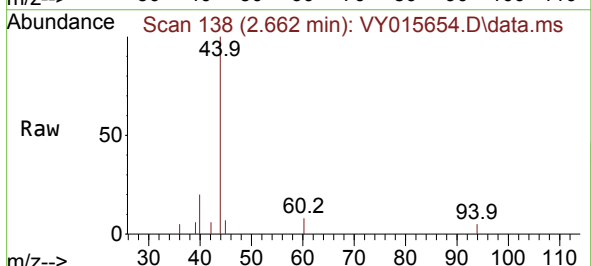
Instrument :  
MSVOA\_Y  
ClientSampleId :

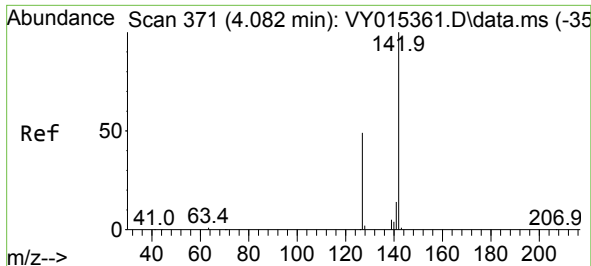
Tgt Ion:168 Resp: 121863  
Ion Ratio Lower Upper  
168 100  
99 54.3 43.4 65.0



#5  
Bromomethane  
Concen: 2.573 ug/l  
RT: 2.662 min Scan# 138  
Delta R.T. 0.025 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

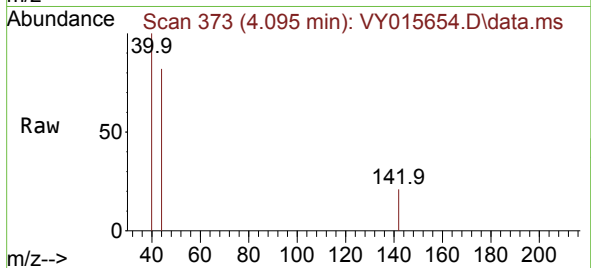
Tgt Ion: 94 Resp: 20  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.8 113.6#



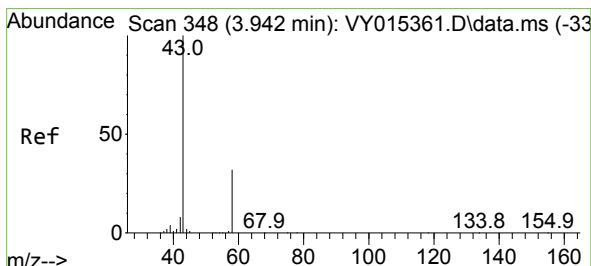
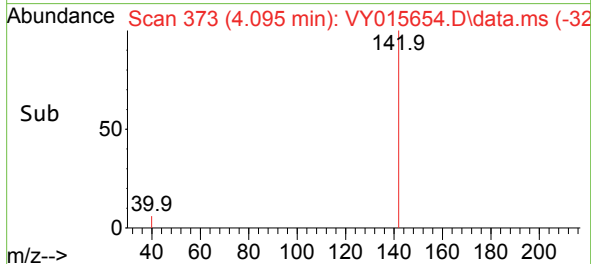
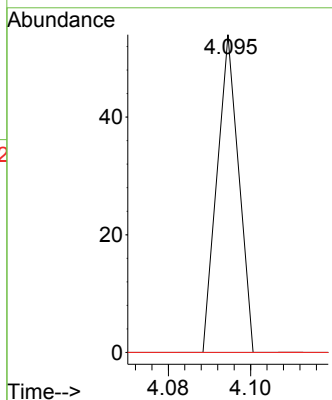


#10  
Methyl Iodide  
Concen: 2.742 ug/l  
RT: 4.095 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

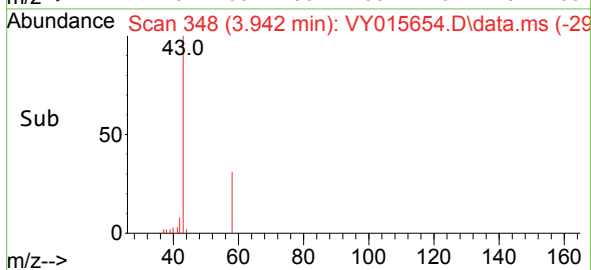
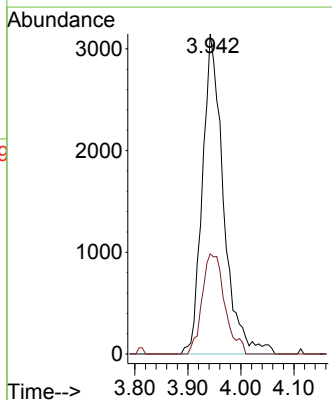
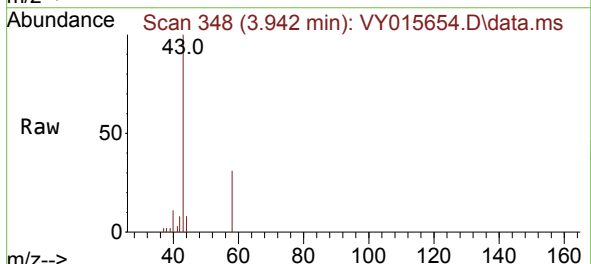


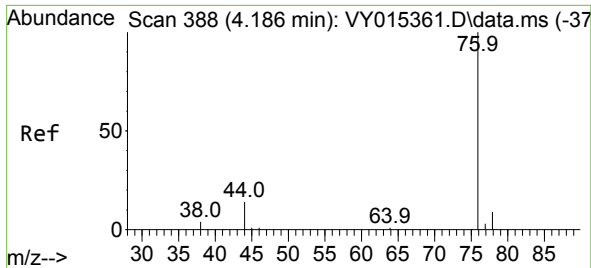
Tgt Ion:142 Resp: 20  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#



#16  
Acetone  
Concen: 12.069 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. 0.000 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

Tgt Ion: 43 Resp: 8660  
Ion Ratio Lower Upper  
43 100  
58 31.3 22.7 34.1

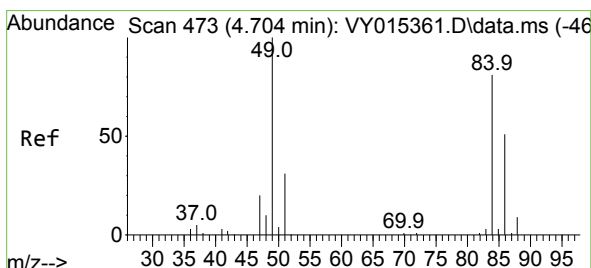
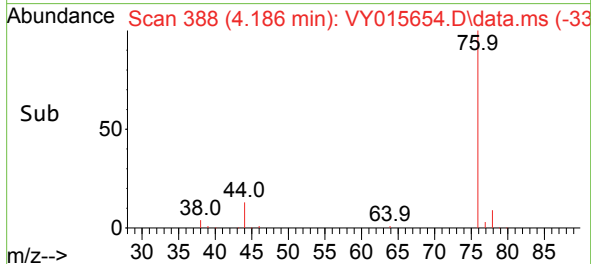
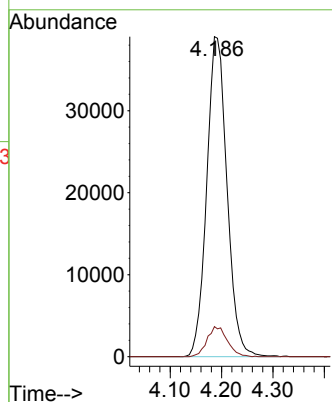
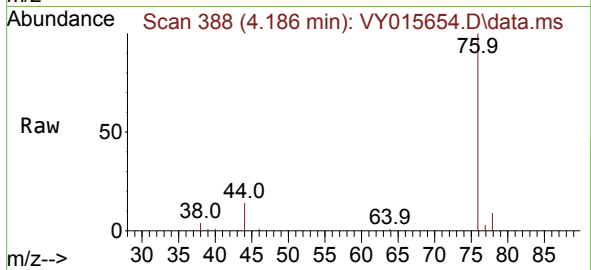




#17  
Carbon Disulfide  
Concen: 51.321 ug/l  
RT: 4.186 min Scan# 388  
Delta R.T. -0.000 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

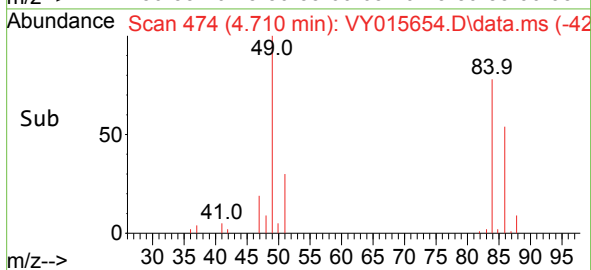
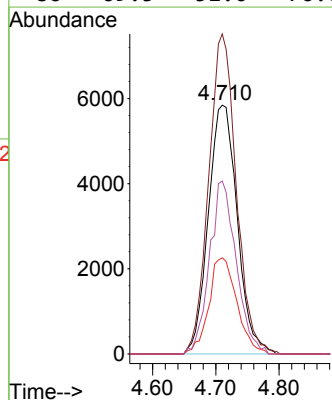
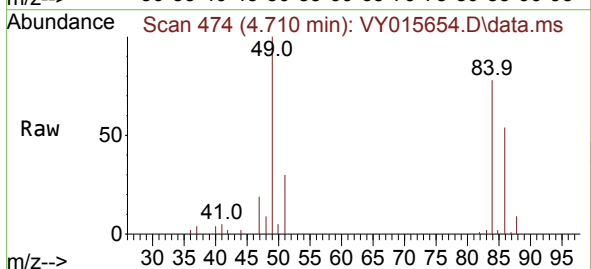
Instrument :  
MSVOA\_Y  
ClientSampleId :

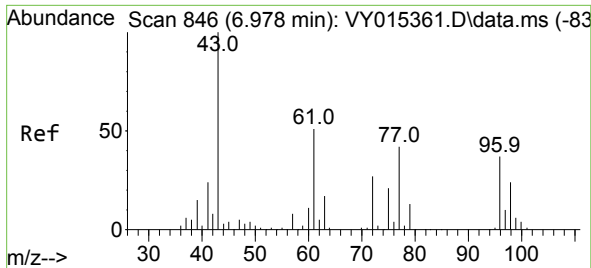
Tgt Ion: 76 Resp: 106889  
Ion Ratio Lower Upper  
76 100  
78 9.4 7.0 10.4



#20  
Methylene Chloride  
Concen: 7.736 ug/l  
RT: 4.710 min Scan# 474  
Delta R.T. 0.006 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

Tgt Ion: 84 Resp: 18586  
Ion Ratio Lower Upper  
84 100  
49 128.6 106.9 160.3  
51 38.6 33.2 49.8  
86 69.5 51.0 76.6





#25

2-Butanone

Concen: 1.204 ug/l

RT: 6.984 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY015654.D

Acq: 20 Sep 2023 13:21

Instrument :

MSVOA\_Y

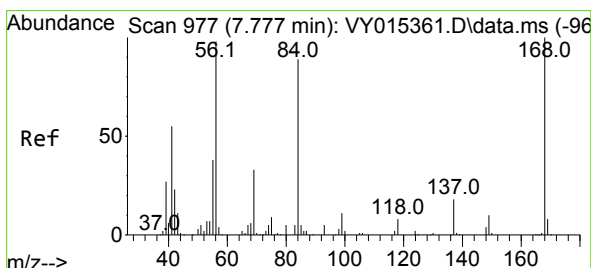
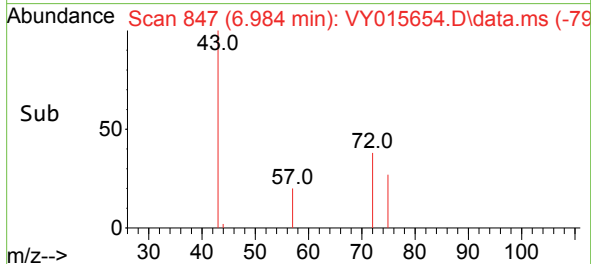
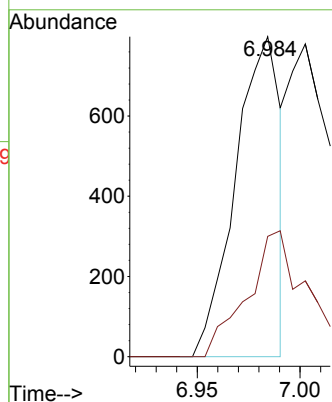
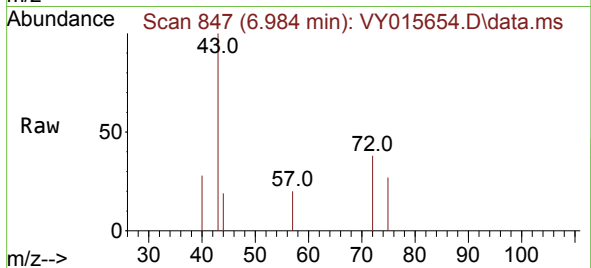
ClientSampleId :

Tgt Ion: 43 Resp: 1221

Ion Ratio Lower Upper

43 100

72 37.6 20.5 30.7#



#31

Cyclohexane

Concen: 1.492 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY015654.D

Acq: 20 Sep 2023 13:21

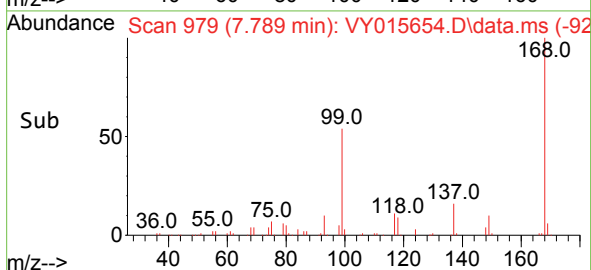
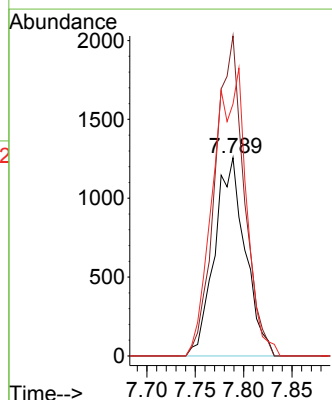
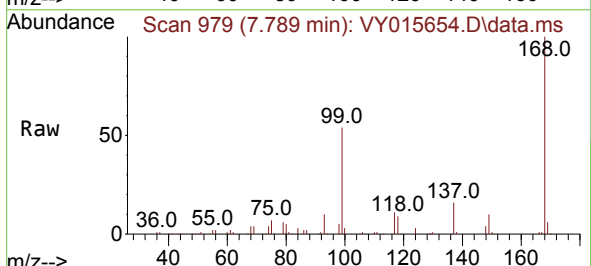
Tgt Ion: 56 Resp: 2771

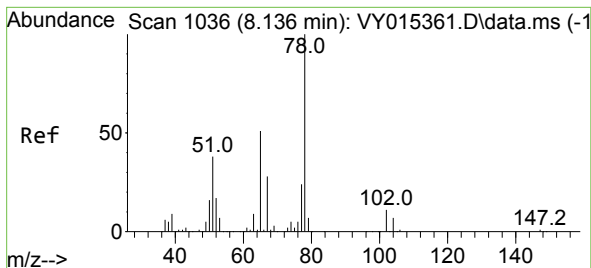
Ion Ratio Lower Upper

56 100

69 161.4 27.8 41.6#

84 127.1 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 55.370 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015654.D

Acq: 20 Sep 2023 13:21

Instrument :

MSVOA\_Y

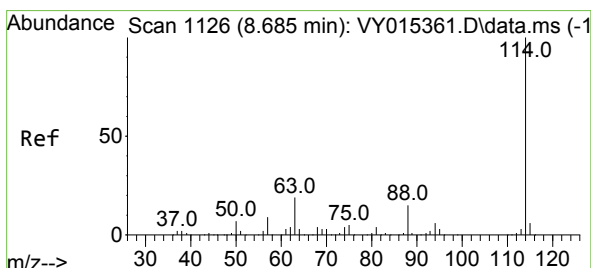
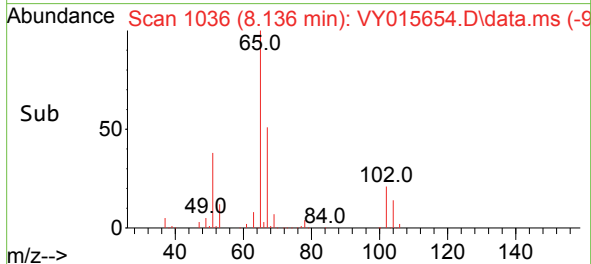
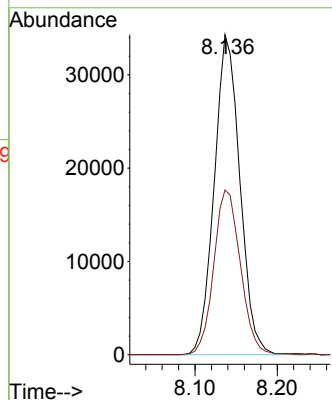
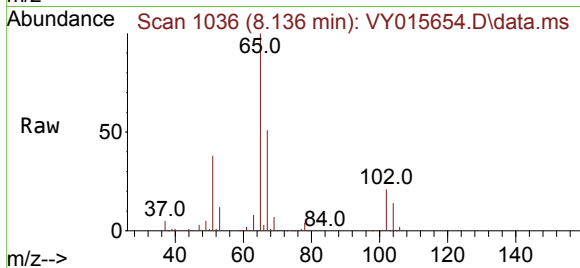
ClientSampleId :

Tgt Ion: 65 Resp: 74242

Ion Ratio Lower Upper

65 100

67 53.5 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015654.D

Acq: 20 Sep 2023 13:21

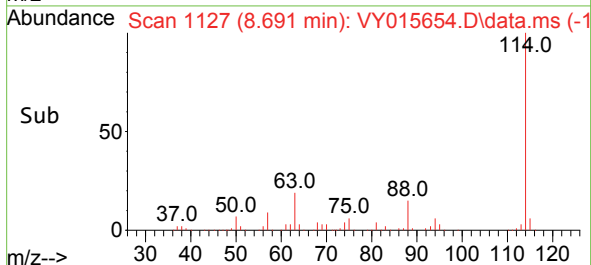
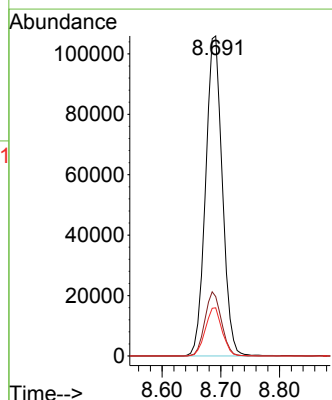
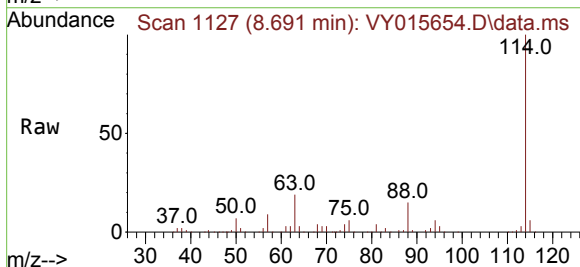
Tgt Ion: 114 Resp: 209530

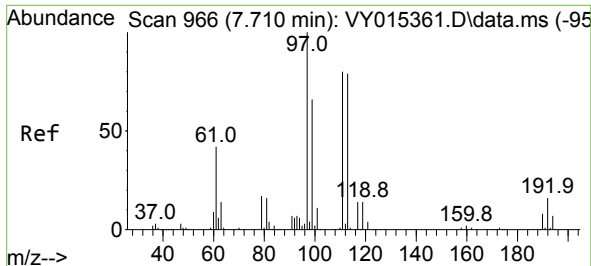
Ion Ratio Lower Upper

114 100

63 18.5 0.0 42.4

88 15.1 0.0 30.6

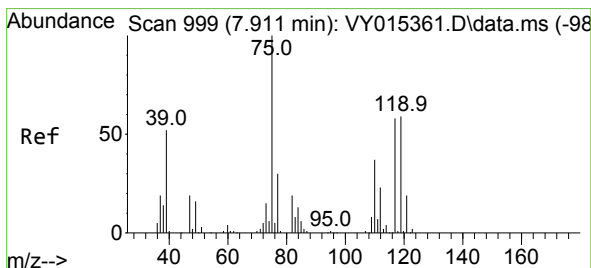
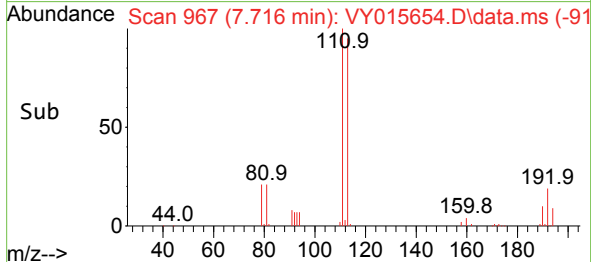
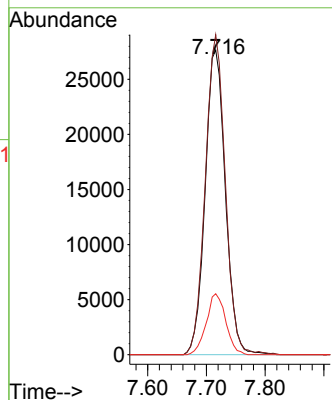
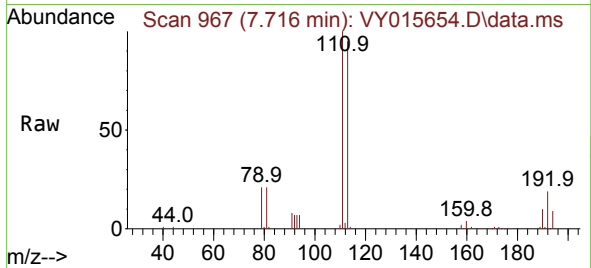




#35  
Dibromofluoromethane  
Concen: 52.925 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

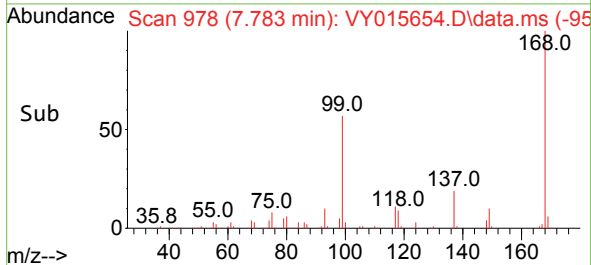
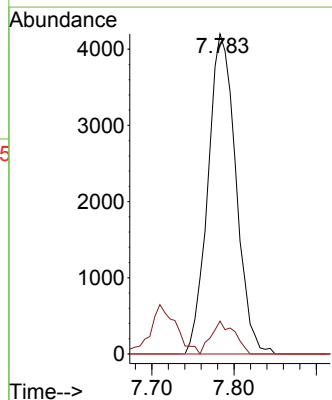
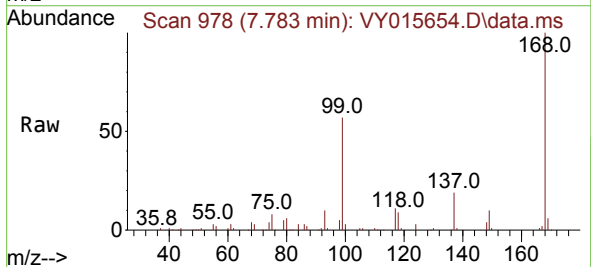
Instrument :  
MSVOA\_Y  
ClientSampleId :

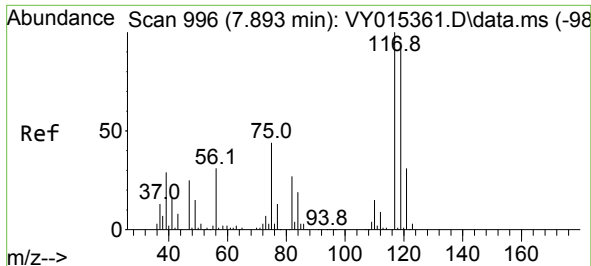
Tgt Ion:113 Resp: 66374  
Ion Ratio Lower Upper  
113 100  
111 103.7 81.3 121.9  
192 19.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 5.342 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.128 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

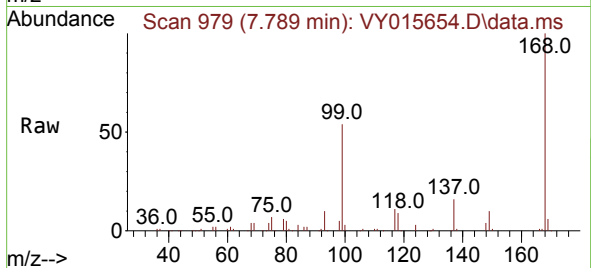
Tgt Ion: 75 Resp: 9906  
Ion Ratio Lower Upper  
75 100  
110 8.5 17.8 53.5#  
77 0.0 24.4 36.6#



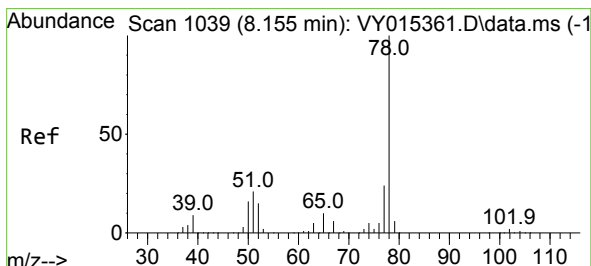
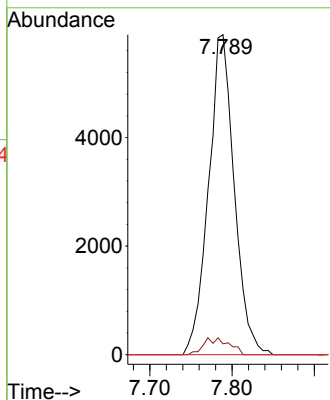
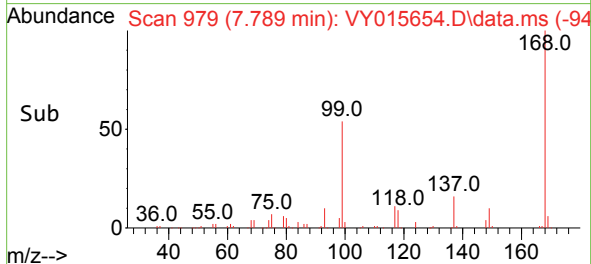


#38  
Carbon Tetrachloride  
Concen: 6.367 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.104 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

Instrument :  
MSVOA\_Y  
ClientSampleId :

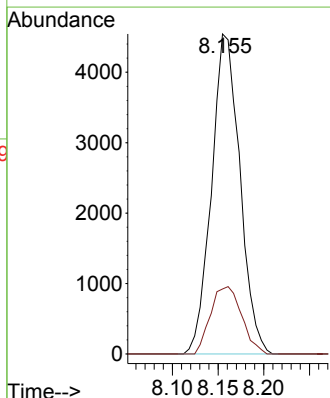
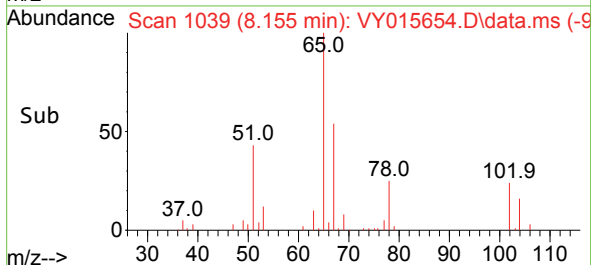
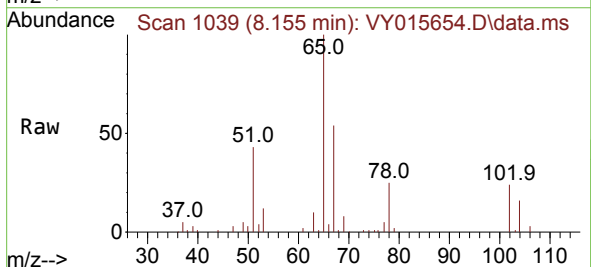


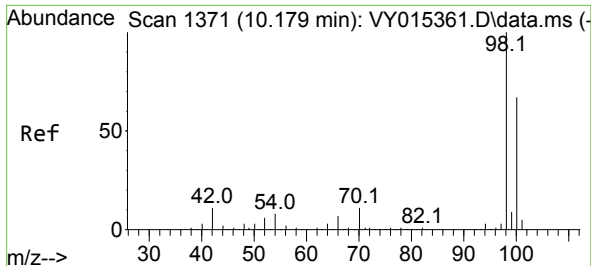
Tgt Ion:117 Resp: 12815  
Ion Ratio Lower Upper  
117 100  
119 3.4 76.4 114.6#  
121 0.0 25.8 38.6#



#40  
Benzene  
Concen: 1.734 ug/l  
RT: 8.155 min Scan# 1039  
Delta R.T. 0.006 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

Tgt Ion: 78 Resp: 9807  
Ion Ratio Lower Upper  
78 100  
77 20.3 19.0 28.6

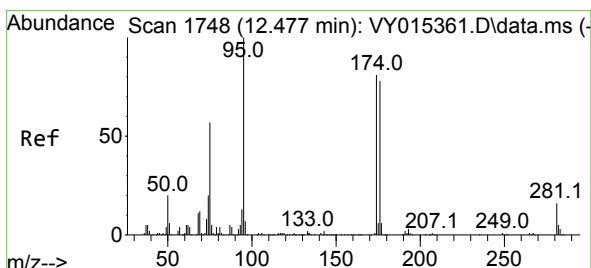
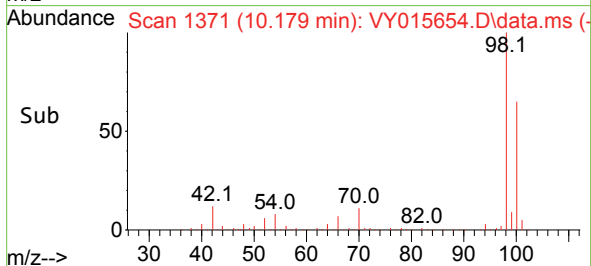
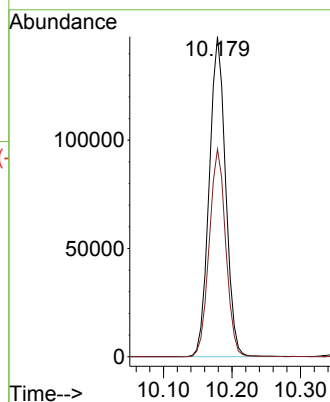
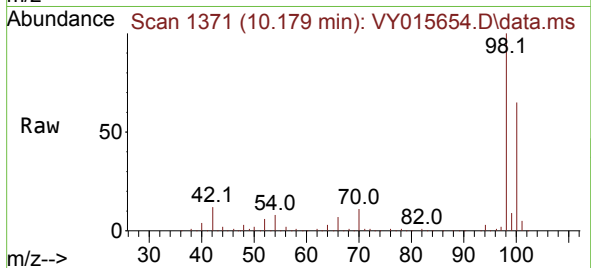




#50  
Toluene-d8  
Concen: 57.798 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

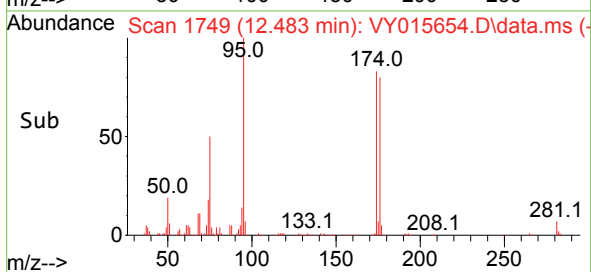
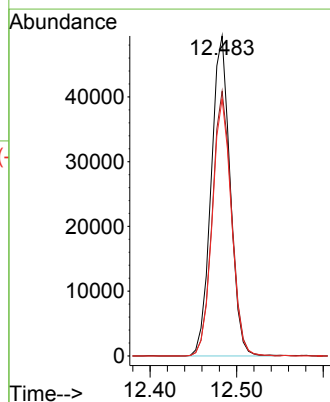
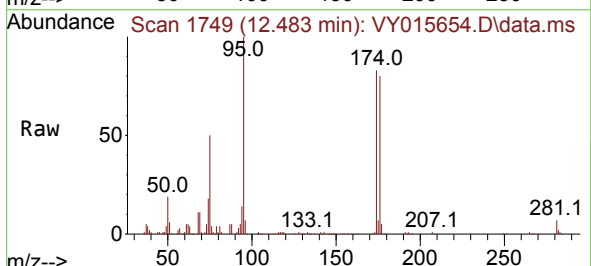
Instrument :  
MSVOA\_Y  
ClientSampleId :

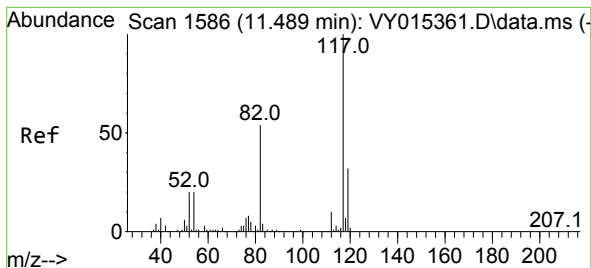
Tgt Ion: 98 Resp: 245771  
Ion Ratio Lower Upper  
98 100  
100 65.3 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 45.126 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY015654.D  
Acq: 20 Sep 2023 13:21

Tgt Ion: 95 Resp: 75302  
Ion Ratio Lower Upper  
95 100  
174 83.8 0.0 178.2  
176 81.0 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 1

Delta R.T. 0.001 min

Lab File: VY015654.D

Acq: 20 Sep 2023 13:21

Instrument :

MSVOA\_Y

ClientSampleId :

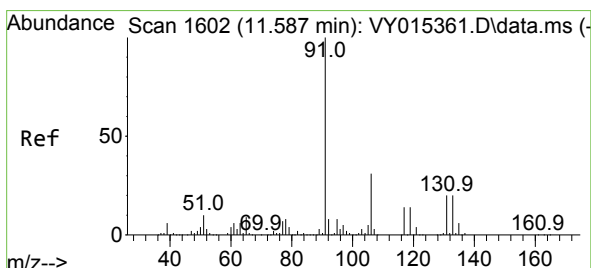
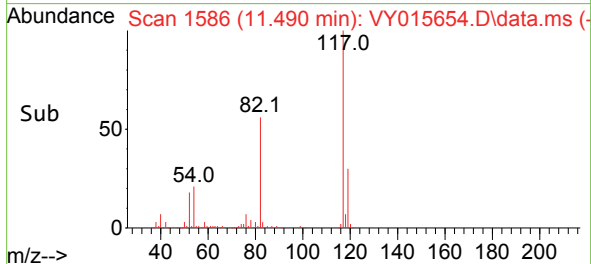
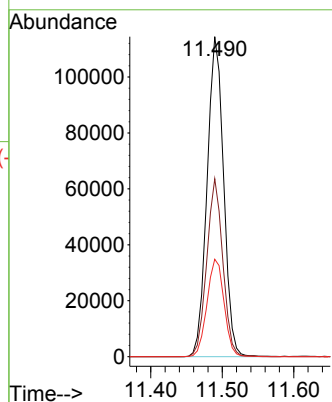
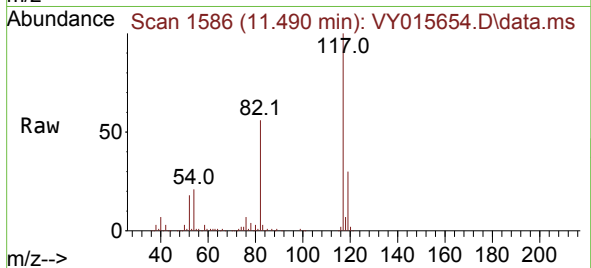
Tgt Ion:117 Resp: 183628

Ion Ratio Lower Upper

117 100

82 55.6 43.4 65.0

119 30.4 26.3 39.5



#67

Ethyl Benzene

Concen: 29.210 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VY015654.D

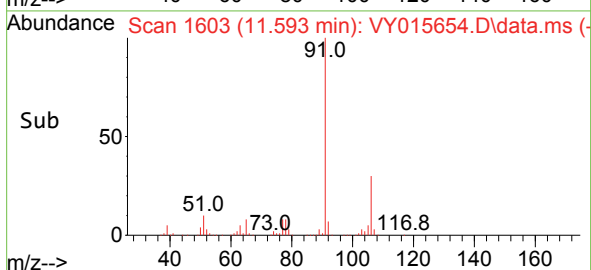
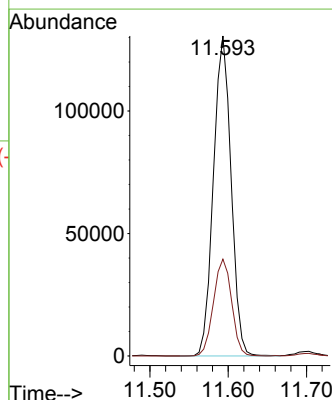
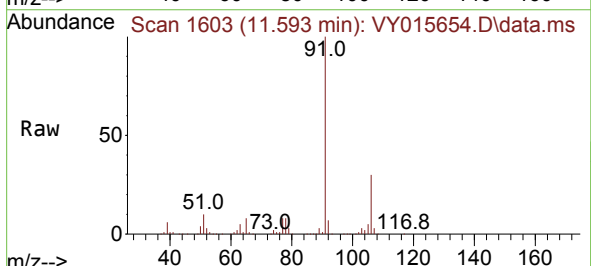
Acq: 20 Sep 2023 13:21

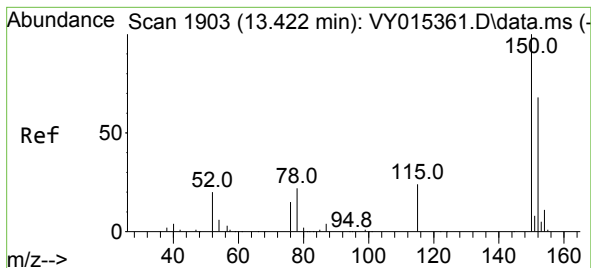
Tgt Ion: 91 Resp: 204638

Ion Ratio Lower Upper

91 100

106 30.3 24.6 36.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY015654.D

Acq: 20 Sep 2023 13:21

Instrument :

MSVOA\_Y

ClientSampleId :

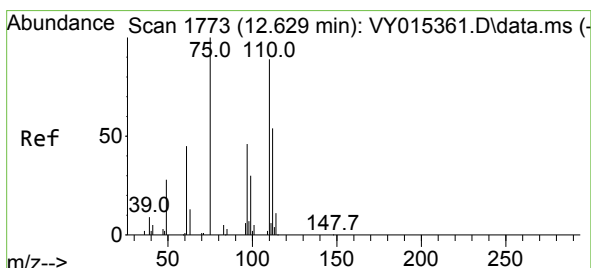
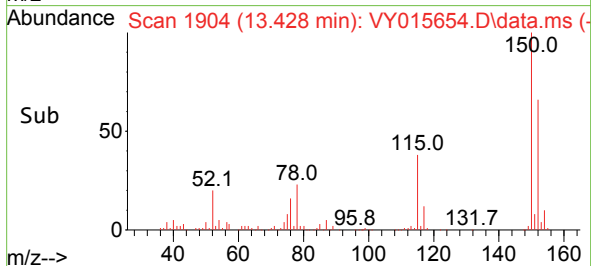
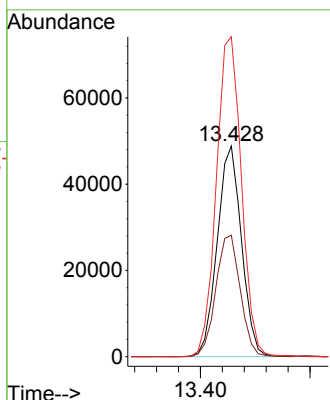
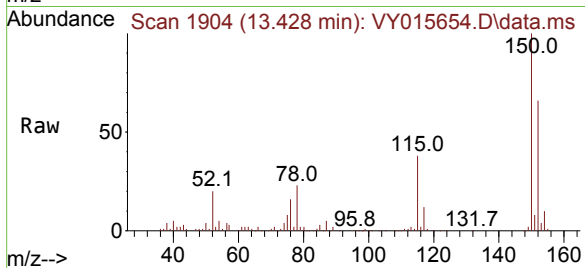
Tgt Ion:152 Resp: 74984

Ion Ratio Lower Upper

152 100

115 58.3 28.8 86.5

150 157.3 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 33.093 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015654.D

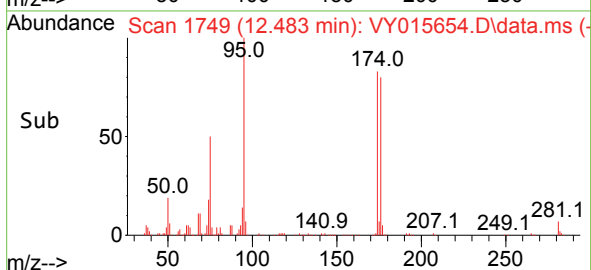
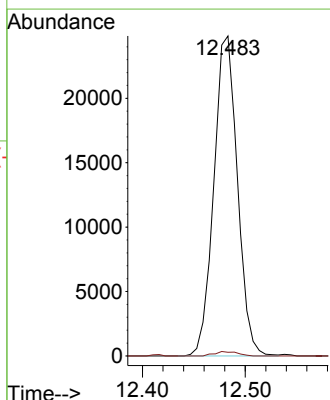
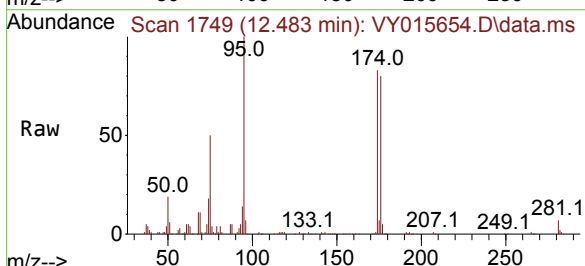
Acq: 20 Sep 2023 13:21

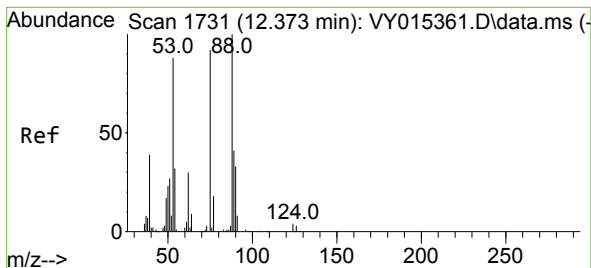
Tgt Ion: 75 Resp: 39587

Ion Ratio Lower Upper

75 100

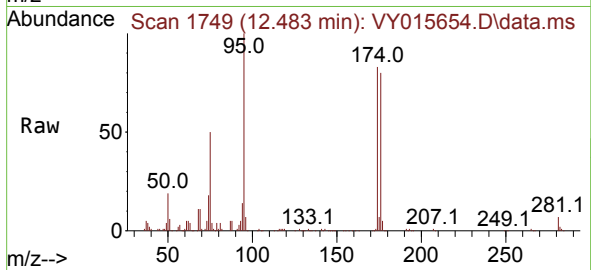
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.522 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.103 min  
 Lab File: VY015654.D  
 Acq: 20 Sep 2023 13:21

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



Tgt Ion: 75 Resp: 39587  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.8 116.8#  
 89 0.0 37.4 56.0#

