

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061924\  
 Data File : VY018640.D  
 Acq On : 19 Jun 2024 13:13  
 Operator : SY/MD  
 Sample : P2952-01  
 Misc : 5.07g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jun 20 02:10:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y061324S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 14 07:08:24 2024  
 Response via : Initial Calibration

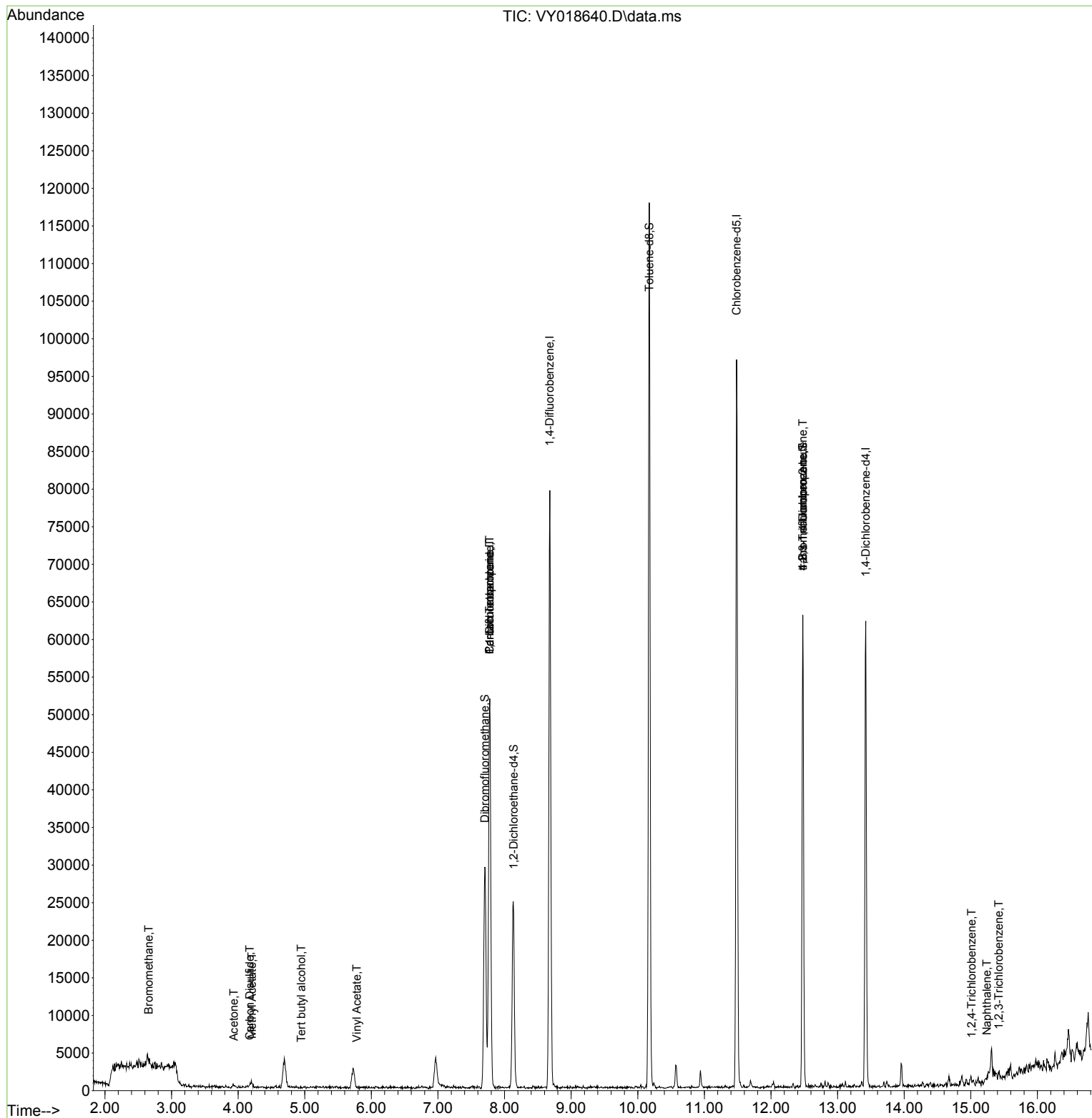
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.777          | 168  | 40660      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.679          | 114  | 69361      | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.484         | 117  | 54908      | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 16238      | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137          | 65   | 18938      | 46.262    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 92.520%   |        |          |
| 35) Dibromofluoromethane      | 7.704          | 113  | 21280      | 50.294    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 100.580%  |        |          |
| 50) Toluene-d8                | 10.173         | 98   | 77464      | 47.607    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = | 95.220%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 18262      | 35.542    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = | 71.080%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 5) Bromomethane               | 2.656          | 94   | 827        | 1.629     | ug/l   | 95       |
| 11) Tert butyl alcohol        | 4.948          | 59   | 158        | 2.146     | ug/l # | 88       |
| 16) Acetone                   | 3.936          | 43   | 477        | 5.727     | ug/l # | 36       |
| 17) Carbon Disulfide          | 4.174          | 76   | 33         | 2.246     | ug/l # | 76       |
| 18) Methyl Acetate            | 4.204          | 43   | 259        | 1.226     | ug/l # | 46       |
| 20) Methylene Chloride        | 4.704          | 84   | 2912       | Below Cal | #      | 85       |
| 23) Vinyl Acetate             | 5.783          | 43   | 21         | 23.713    | ug/l # | 67       |
| 36) 1,1-Dichloropropene       | 7.777          | 75   | 3247       | 5.575     | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 7.777          | 117  | 4420       | 7.234     | ug/l # | 18       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 9949       | 65.317    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 9949       | 171.089   | ug/l # | 16       |
| 93) 1,2,4-Trichlorobenzene    | 15.013         | 180  | 305        | 1.159     | ug/l # | 70       |
| 95) Naphthalene               | 15.239         | 128  | 783        | 1.592     | ug/l # | 86       |
| 96) 1,2,3-Trichlorobenzene    | 15.422         | 180  | 379        | 1.704     | ug/l # | 86       |
| -----                         |                |      |            |           |        |          |

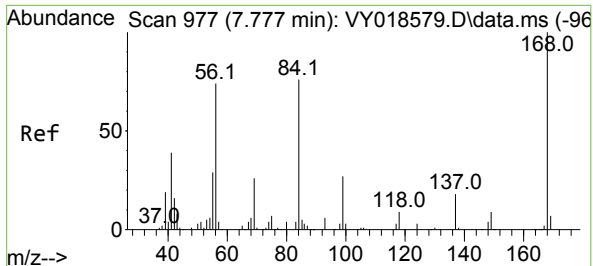
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 7 Sample Multiplier: 1

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MSVOA\_Y  
ClientSampleId :

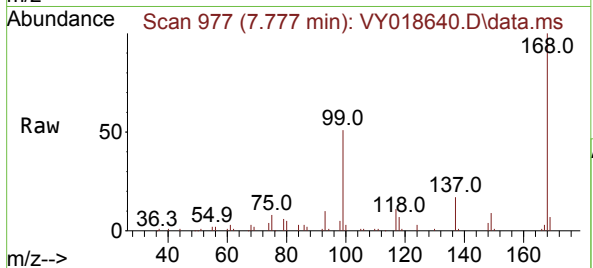
Quant Time: Jun 20 02:10:07 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y061324S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 14 07:08:24 2024  
Response via : Initial Calibration



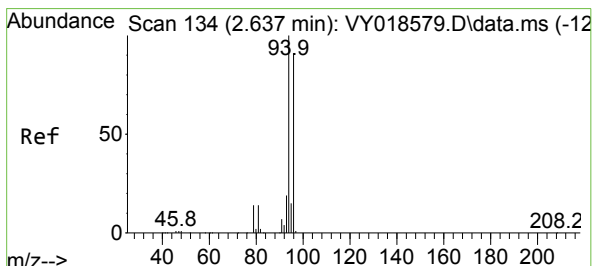
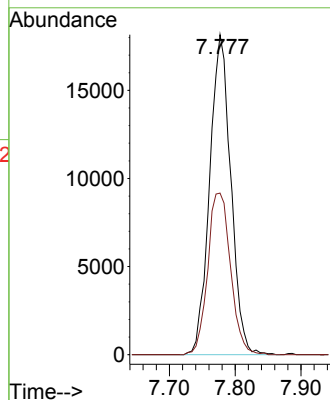
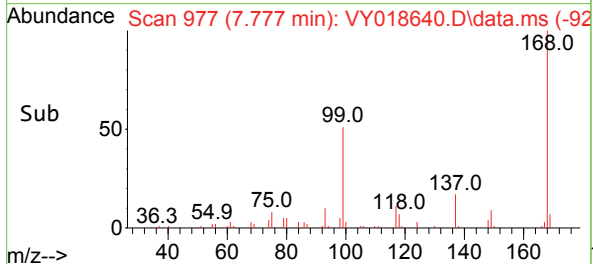


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Instrument :  
MSVOA\_Y  
ClientSampleId :

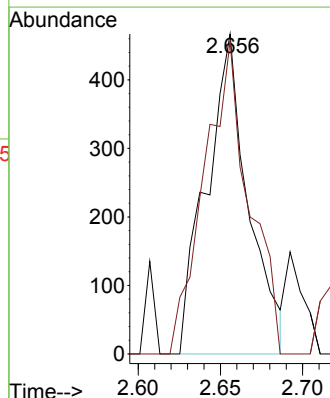
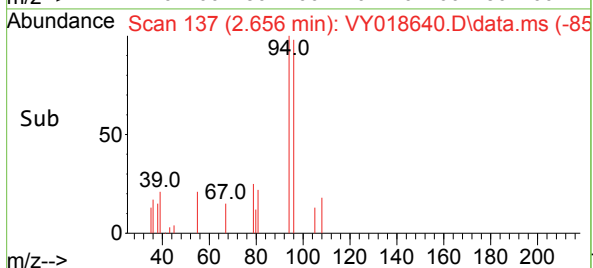
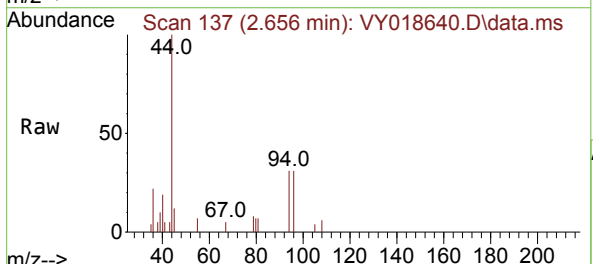


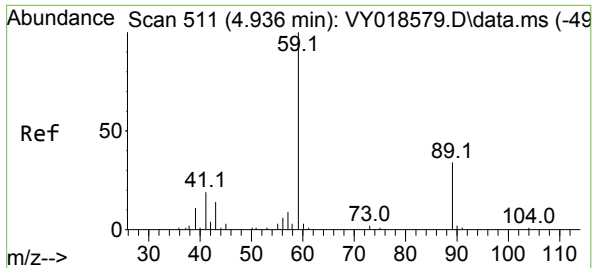
Tgt Ion:168 Resp: 40660  
Ion Ratio Lower Upper  
168 100  
99 50.5 39.1 58.7



#5  
Bromomethane  
Concen: 1.629 ug/l  
RT: 2.656 min Scan# 137  
Delta R.T. 0.018 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Tgt Ion: 94 Resp: 827  
Ion Ratio Lower Upper  
94 100  
96 97.9 74.1 111.1

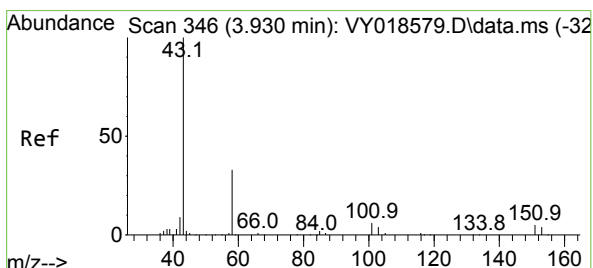
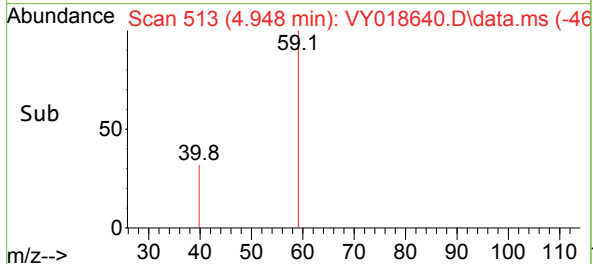
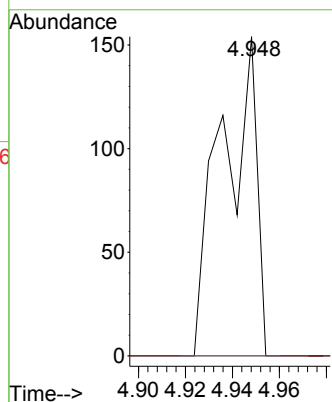
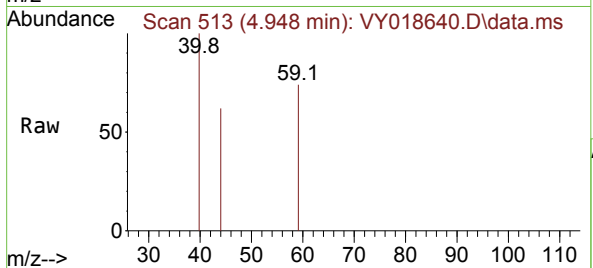




#11  
Tert butyl alcohol  
Concen: 2.146 ug/l  
RT: 4.948 min Scan# 511  
Delta R.T. 0.012 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

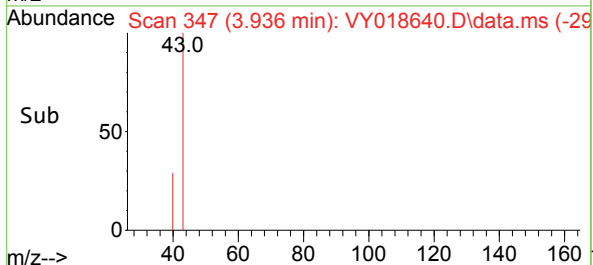
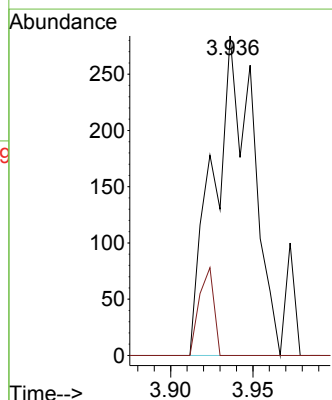
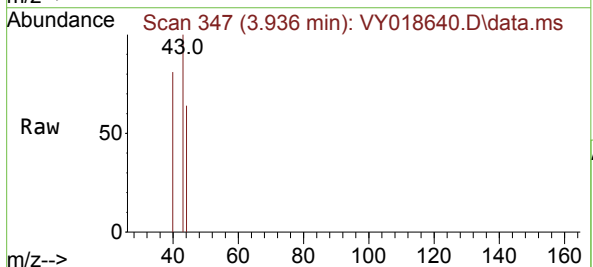
Instrument :  
MSVOA\_Y  
ClientSampleId :

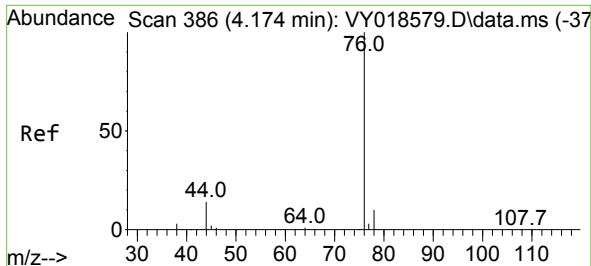
Tgt Ion: 59 Resp: 158  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#



#16  
Acetone  
Concen: 5.727 ug/l  
RT: 3.936 min Scan# 347  
Delta R.T. 0.006 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Tgt Ion: 43 Resp: 477  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 47.5#

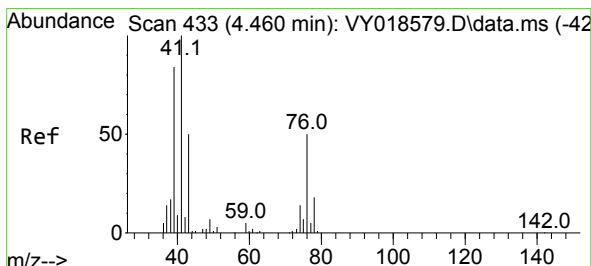
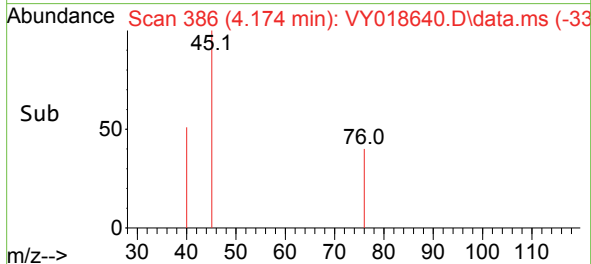
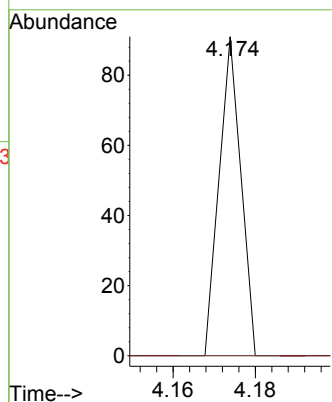
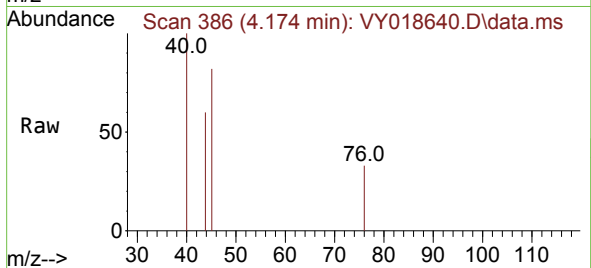




#17  
Carbon Disulfide  
Concen: 2.246 ug/l  
RT: 4.174 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

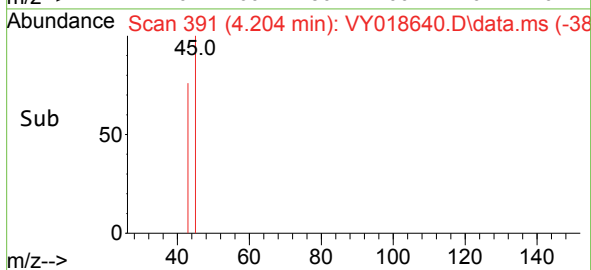
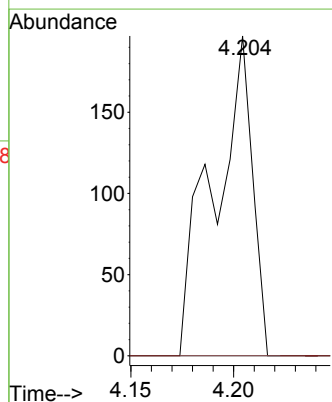
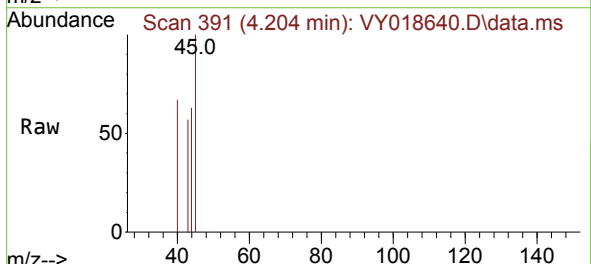
Instrument :  
MSVOA\_Y  
ClientSampleId :

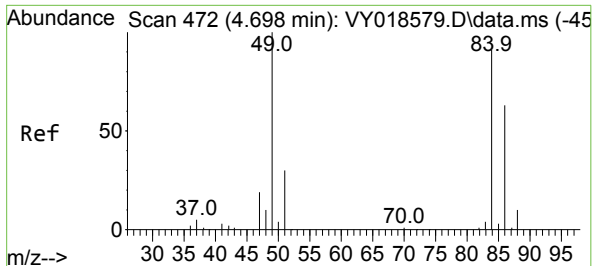
Tgt Ion: 76 Resp: 33  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.8 10.2#



#18  
Methyl Acetate  
Concen: 1.226 ug/l  
RT: 4.204 min Scan# 391  
Delta R.T. -0.256 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Tgt Ion: 43 Resp: 259  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.3 34.9#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.704 min Scan# 41

Delta R.T. 0.006 min

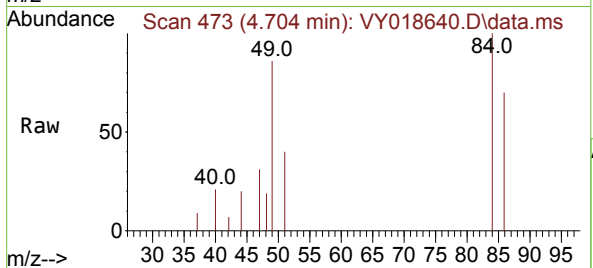
Lab File: VY018640.D

Acq: 19 Jun 2024 13:13

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion: 84 Resp: 2912

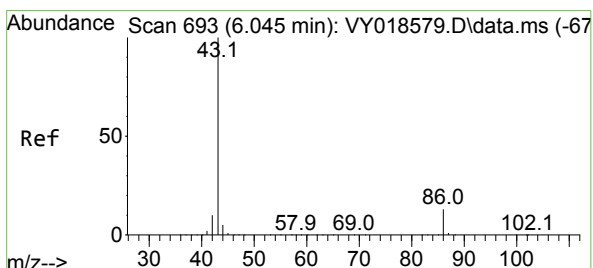
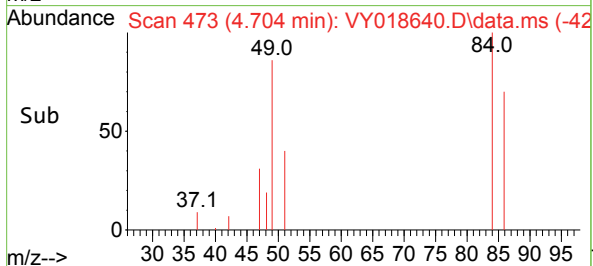
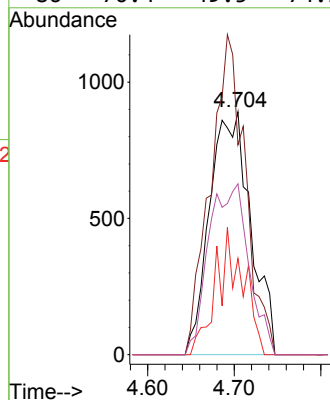
Ion Ratio Lower Upper

84 100

49 86.4 84.4 126.6

51 39.6 26.0 39.0#

86 70.4 49.5 74.3



#23

Vinyl Acetate

Concen: 23.713 ug/l

RT: 5.783 min Scan# 650

Delta R.T. -0.262 min

Lab File: VY018640.D

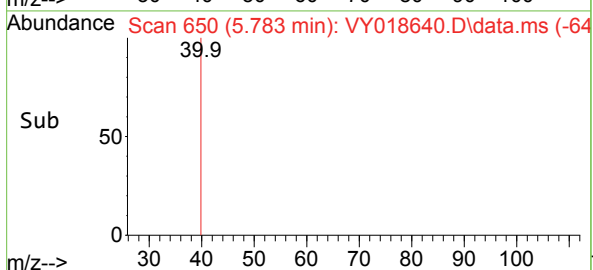
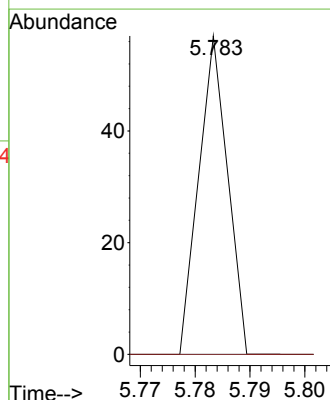
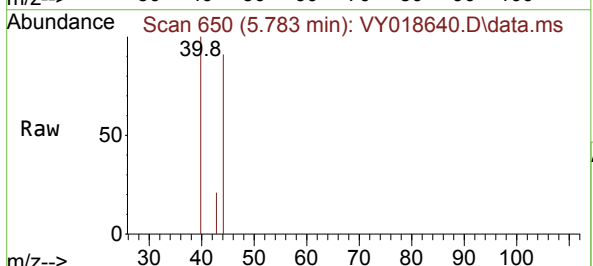
Acq: 19 Jun 2024 13:13

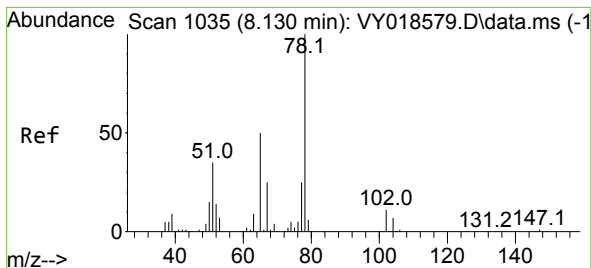
Tgt Ion: 43 Resp: 21

Ion Ratio Lower Upper

43 100

86 0.0 10.6 16.0#





#33

1,2-Dichloroethane-d4

Concen: 46.262 ug/l

RT: 8.137 min Scan# 1035

Delta R.T. 0.006 min

Lab File: VY018640.D

Acq: 19 Jun 2024 13:13

Instrument :

MSVOA\_Y

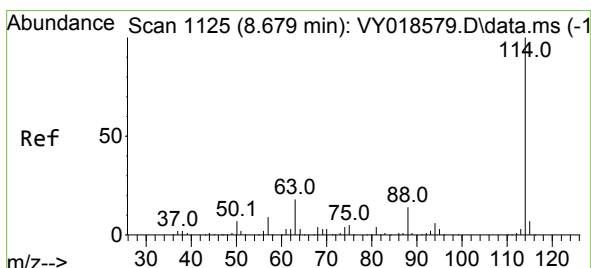
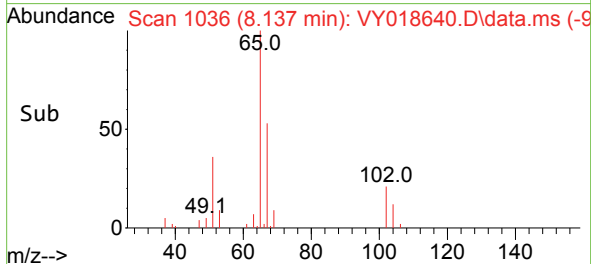
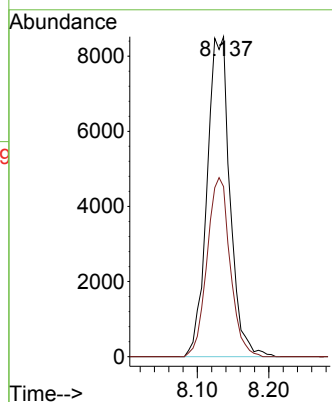
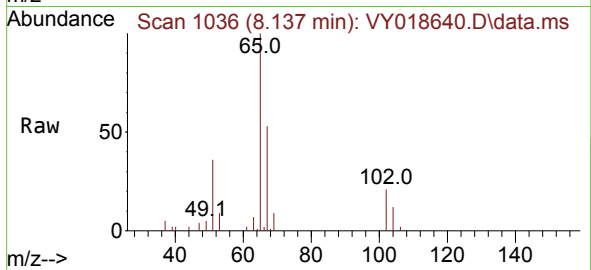
ClientSampleId :

Tgt Ion: 65 Resp: 18938

Ion Ratio Lower Upper

65 100

67 56.3 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.679 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VY018640.D

Acq: 19 Jun 2024 13:13

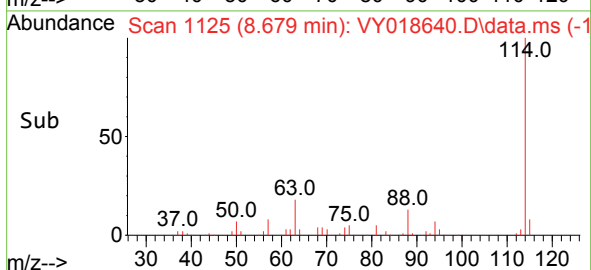
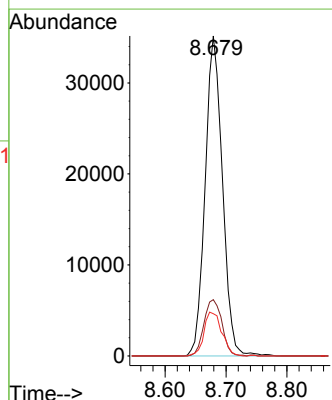
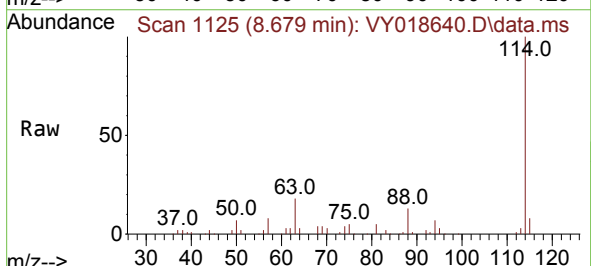
Tgt Ion:114 Resp: 69361

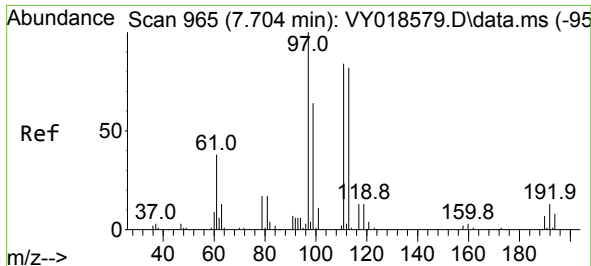
Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.0

88 13.2 0.0 27.2

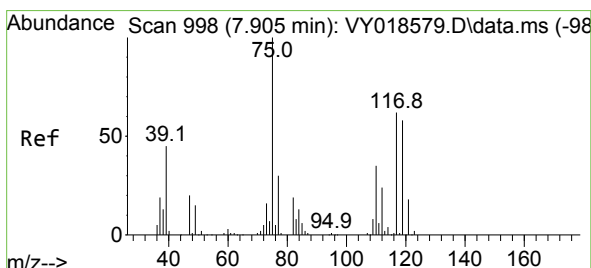
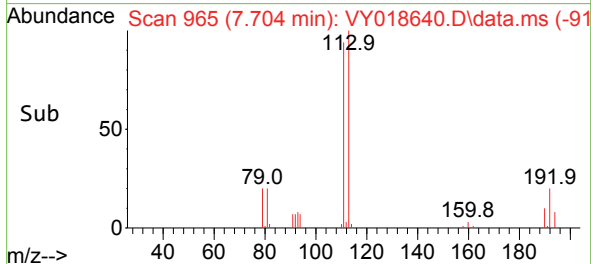
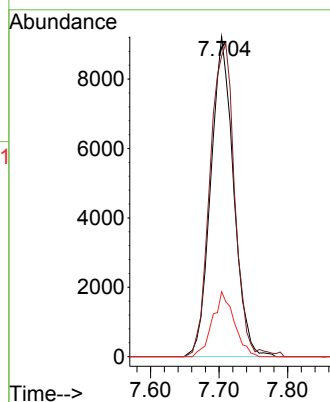
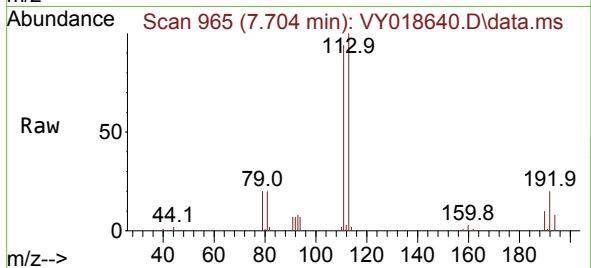




#35  
Dibromofluoromethane  
Concen: 50.294 ug/l  
RT: 7.704 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

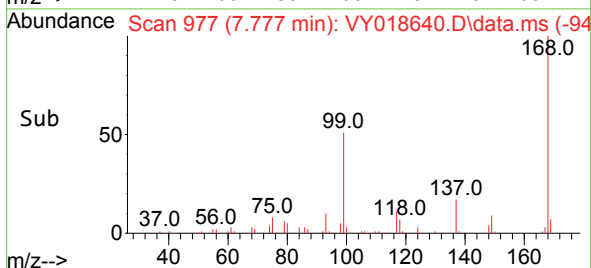
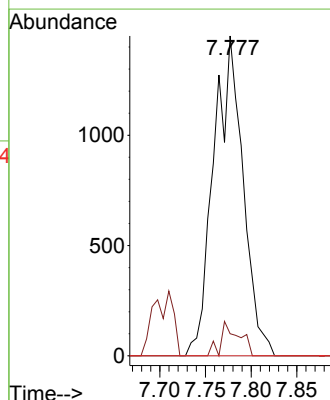
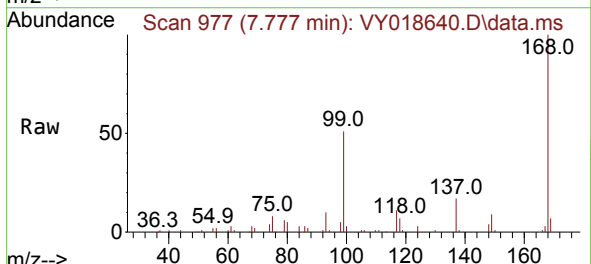
Instrument :  
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ClientSampleId :

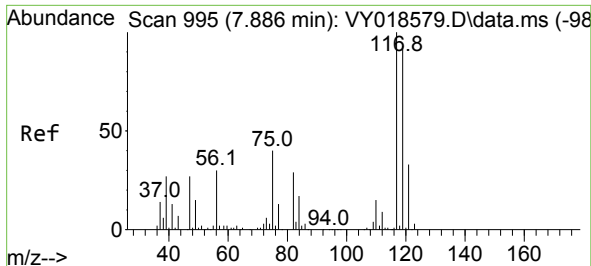
Tgt Ion:113 Resp: 21280  
Ion Ratio Lower Upper  
113 100  
111 105.9 82.2 123.4  
192 19.4 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 5.575 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.128 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

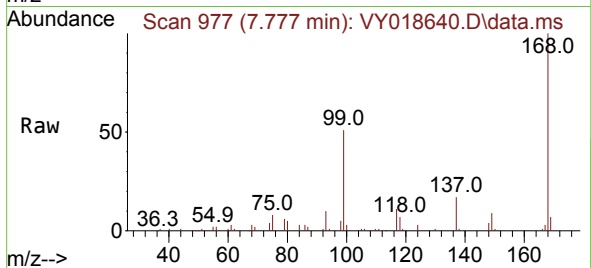
Tgt Ion: 75 Resp: 3247  
Ion Ratio Lower Upper  
75 100  
110 6.7 19.0 57.0#  
77 0.0 25.3 37.9#



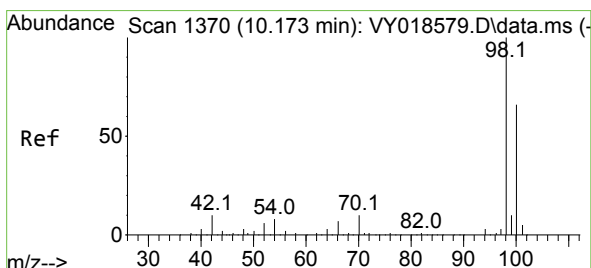
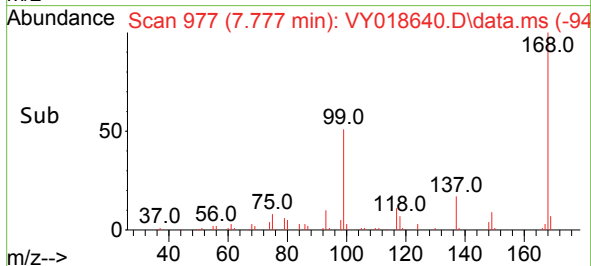
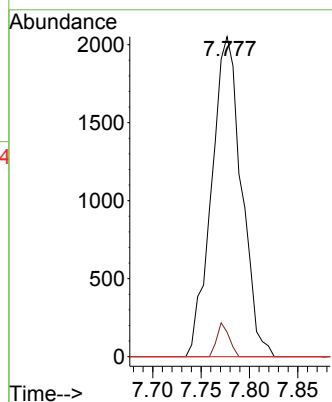


#38  
Carbon Tetrachloride  
Concen: 7.234 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Instrument :  
MSVOA\_Y  
ClientSampleId :

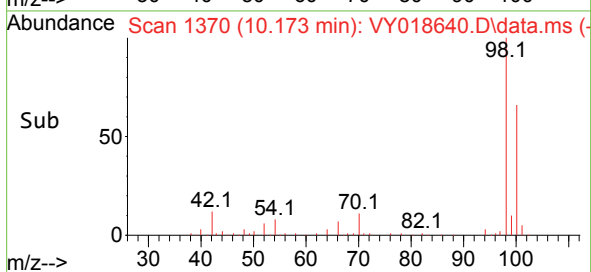
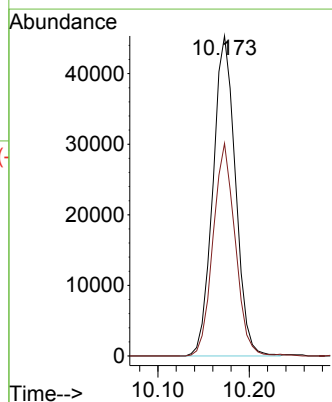
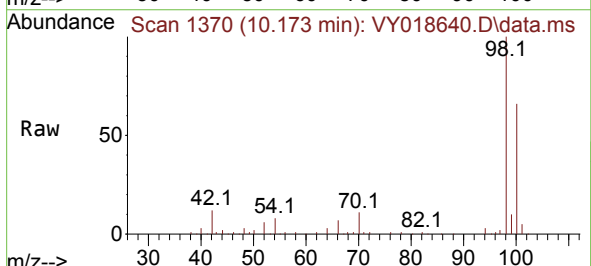


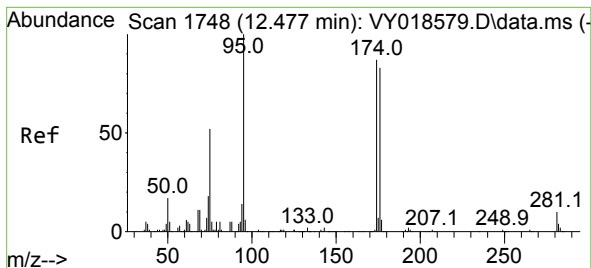
Tgt Ion:117 Resp: 4420  
Ion Ratio Lower Upper  
117 100  
119 7.6 75.8 113.6#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 47.607 ug/l  
RT: 10.173 min Scan# 1370  
Delta R.T. 0.000 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Tgt Ion: 98 Resp: 77464  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.0 78.0

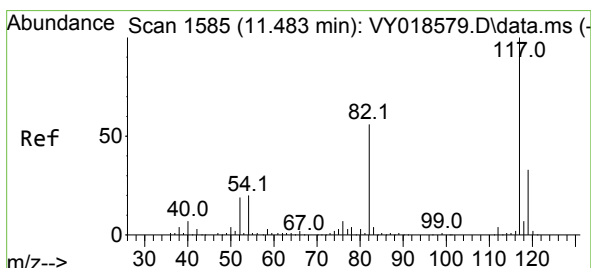
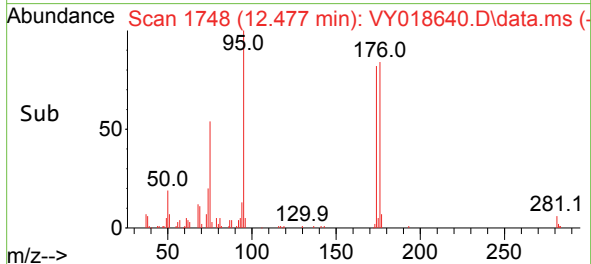
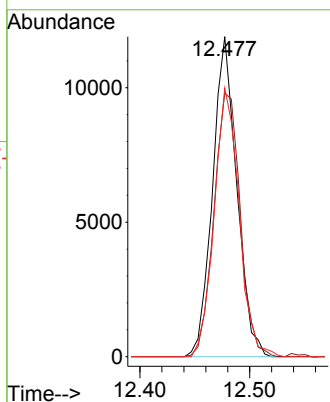
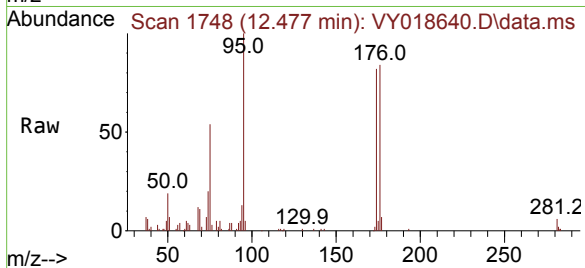




#62  
4-Bromofluorobenzene  
Concen: 35.542 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

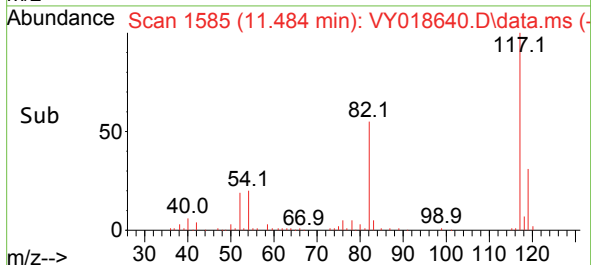
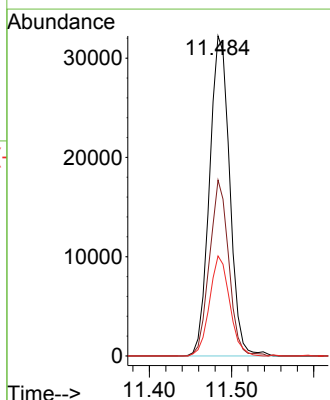
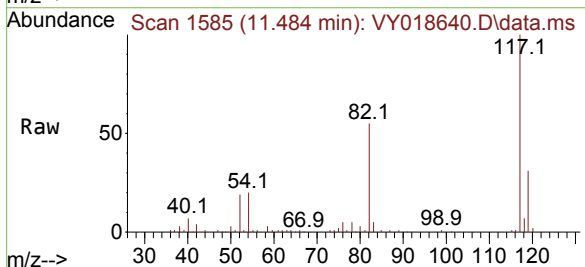
Instrument :  
MSVOA\_Y  
ClientSampleId :

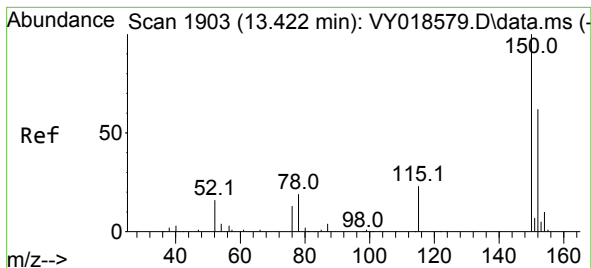
Tgt Ion: 95 Resp: 18262  
Ion Ratio Lower Upper  
95 100  
174 89.2 0.0 175.6  
176 86.2 0.0 171.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.484 min Scan# 1585  
Delta R.T. 0.000 min  
Lab File: VY018640.D  
Acq: 19 Jun 2024 13:13

Tgt Ion: 117 Resp: 54908  
Ion Ratio Lower Upper  
117 100  
82 55.0 42.4 63.6  
119 31.2 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY018640.D

Acq: 19 Jun 2024 13:13

Instrument :

MSVOA\_Y

ClientSampleId :

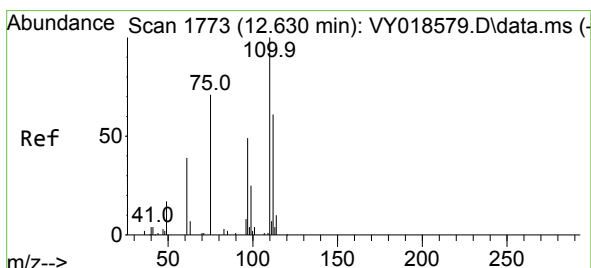
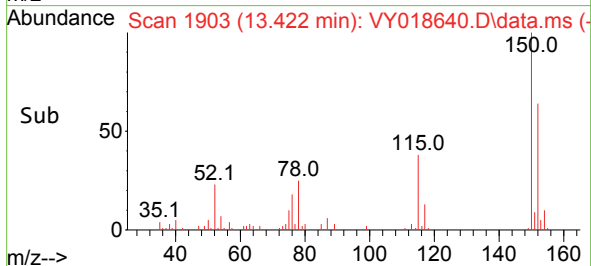
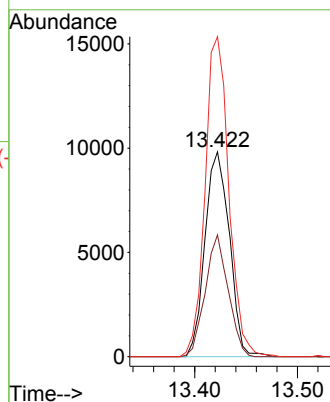
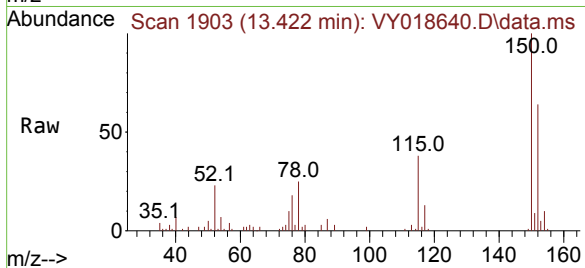
Tgt Ion:152 Resp: 16238

Ion Ratio Lower Upper

152 100

115 55.8 28.2 84.7

150 151.7 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 65.317 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY018640.D

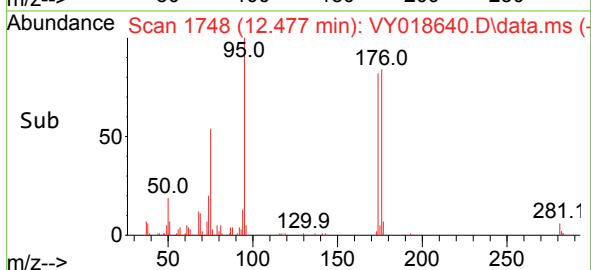
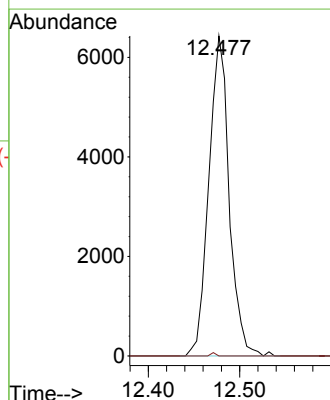
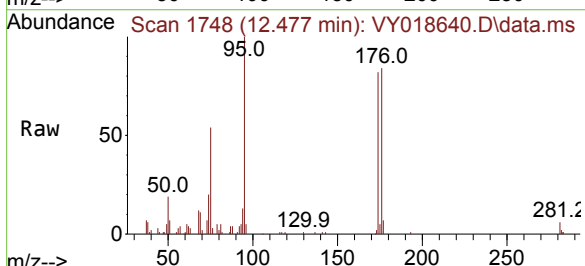
Acq: 19 Jun 2024 13:13

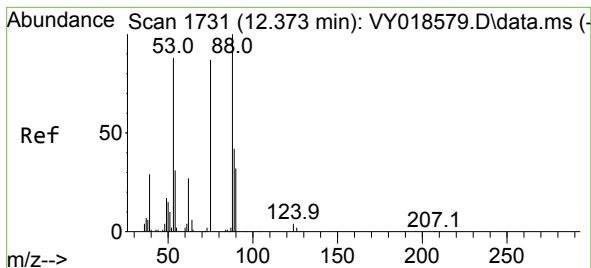
Tgt Ion: 75 Resp: 9949

Ion Ratio Lower Upper

75 100

77 0.3 0.0 0.0#

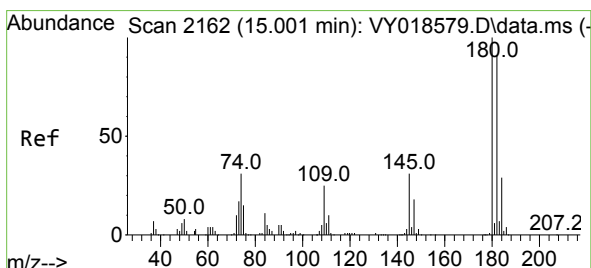
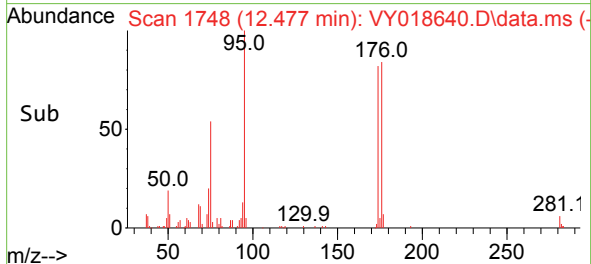
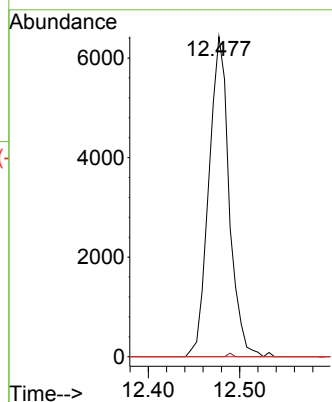
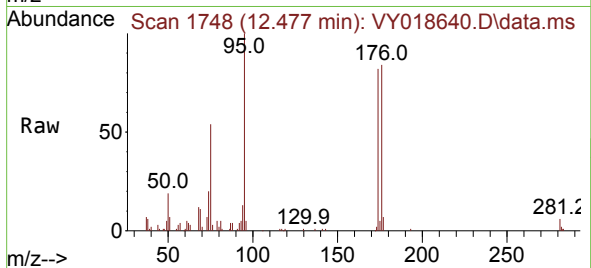




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 171.089 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. 0.104 min  
 Lab File: VY018640.D  
 Acq: 19 Jun 2024 13:13

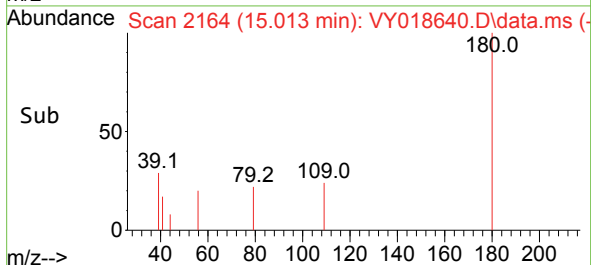
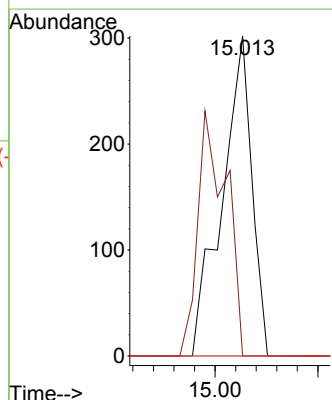
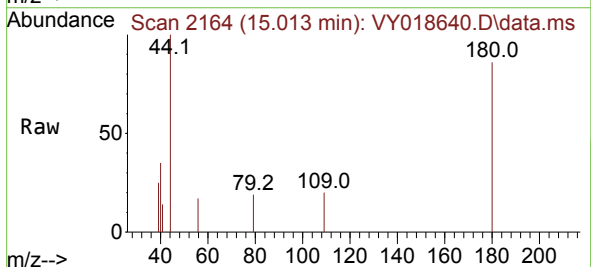
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

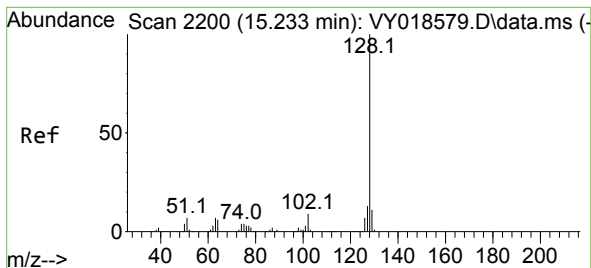
Tgt Ion: 75 Resp: 9949  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 66.8 100.2#  
 89 0.0 35.8 53.6#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.159 ug/l  
 RT: 15.013 min Scan# 2164  
 Delta R.T. 0.012 min  
 Lab File: VY018640.D  
 Acq: 19 Jun 2024 13:13

Tgt Ion:180 Resp: 305  
 Ion Ratio Lower Upper  
 180 100  
 182 73.1 47.9 143.8  
 145 0.0 14.2 42.6#





#95

Naphthalene

Concen: 1.592 ug/l

RT: 15.239 min Scan# 2200

Delta R.T. 0.006 min

Lab File: VY018640.D

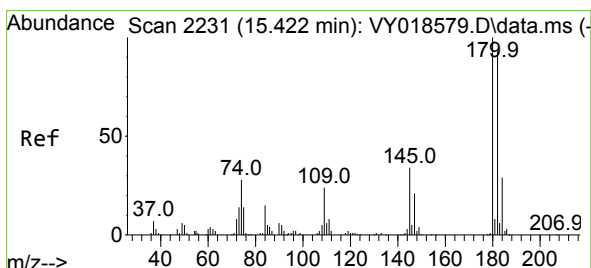
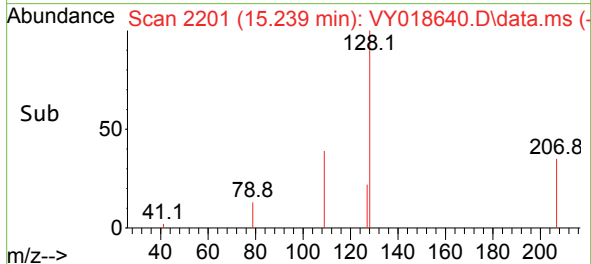
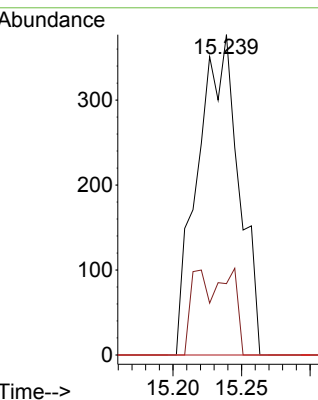
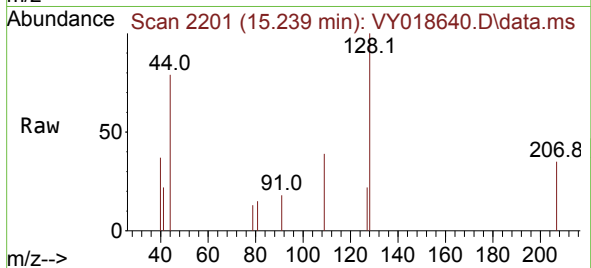
Acq: 19 Jun 2024 13:13

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 783       |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 12.1  | 10.6 16.0 |
| 129         | 0.0   | 8.6 13.0  |



#96

1,2,3-Trichlorobenzene

Concen: 1.704 ug/l

RT: 15.422 min Scan# 2231

Delta R.T. 0.000 min

Lab File: VY018640.D

Acq: 19 Jun 2024 13:13

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 379        |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 100.0 | 47.6 142.9 |
| 145         | 7.9   | 15.4 46.1  |

