

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053123\  
 Data File : VY013941.D  
 Acq On : 31 May 2023 17:23  
 Operator : KP/MD  
 Sample : 02955-06RE  
 Misc : 5.06g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: May 31 17:59:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 24 05:25:47 2023  
 Response via : Initial Calibration

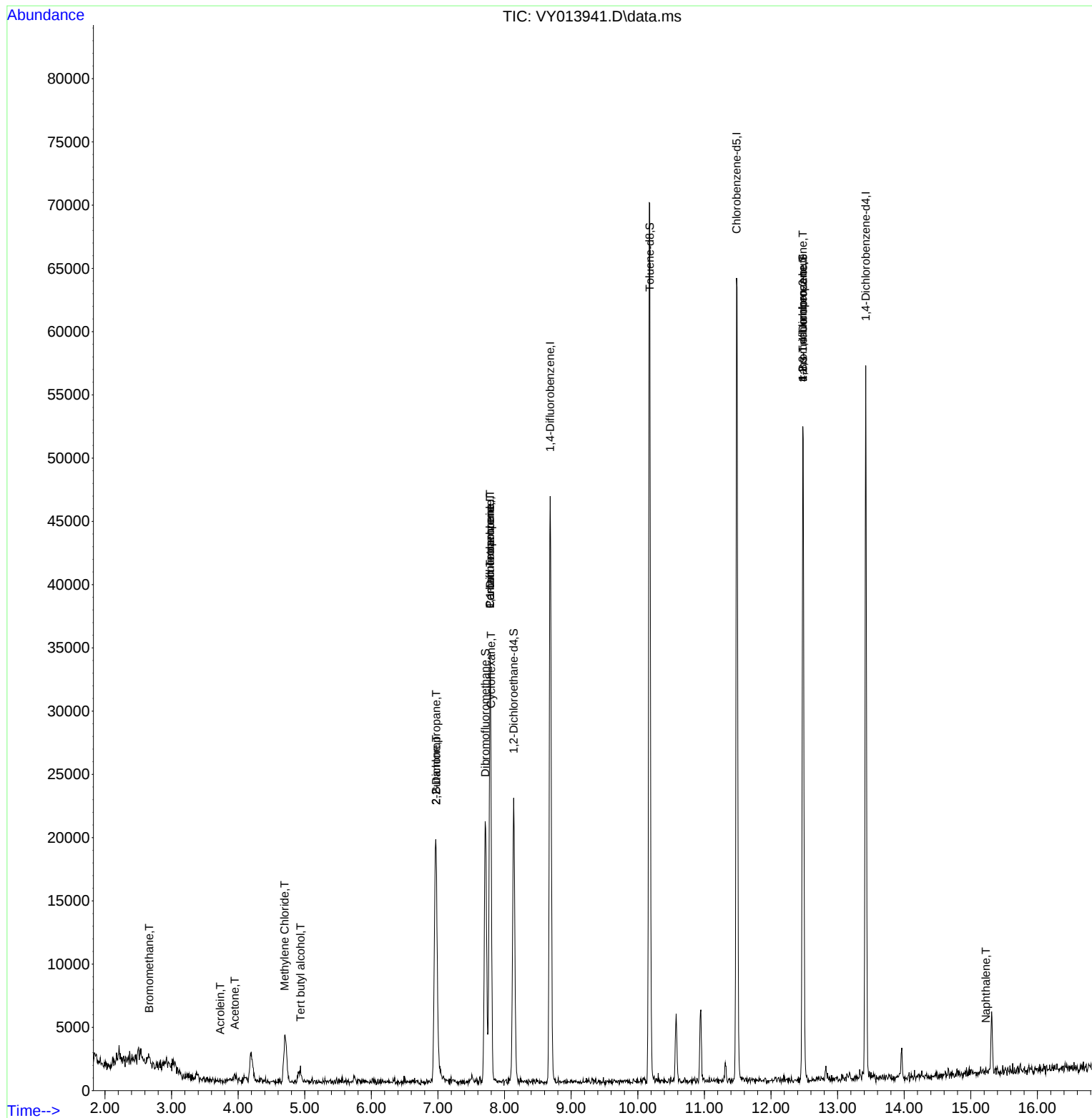
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 25206               | 50.000 | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 40676               | 50.000 | ug/l   | -0.01    |
| 63) Chlorobenzene-d5          | 11.484         | 117  | 35284               | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 14781               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137          | 65   | 18197               | 62.402 | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 124.800% |        |        |          |
| 35) Dibromofluoromethane      | 7.710          | 113  | 14204               | 54.072 | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 108.140% |        |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 47448               | 47.524 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 95.040%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 13081               | 39.417 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 78.840%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 5) Bromomethane               | 2.662          | 94   | 299                 | 1.308  | ug/l # | 67       |
| 11) Tert butyl alcohol        | 4.936          | 59   | 1053                | 47.137 | ug/l # | 73       |
| 13) Acrolein                  | 3.729          | 56   | 53                  | 1.577  | ug/l # | 15       |
| 16) Acetone                   | 3.948          | 43   | 938                 | 10.838 | ug/l   | 96       |
| 20) Methylene Chloride        | 4.698          | 84   | 2751                | 6.768  | ug/l # | 78       |
| 25) 2-Butanone                | 6.972          | 43   | 1239                | 11.732 | ug/l # | 66       |
| 26) 2,2-Dichloropropane       | 6.972          | 77   | 1468                | 3.212  | ug/l # | 53       |
| 31) Cyclohexane               | 7.795          | 56   | 639                 | 1.426  | ug/l # | 39       |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 1908                | 4.769  | ug/l # | 44       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 2270                | 4.989  | ug/l # | 13       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 7412                | 42.527 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 7412                | 92.314 | ug/l # | 10       |
| 95) Naphthalene               | 15.227         | 128  | 277                 | 4.948  | ug/l # | 68       |
| -----                         |                |      |                     |        |        |          |

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

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Sample : 02955-06RE  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

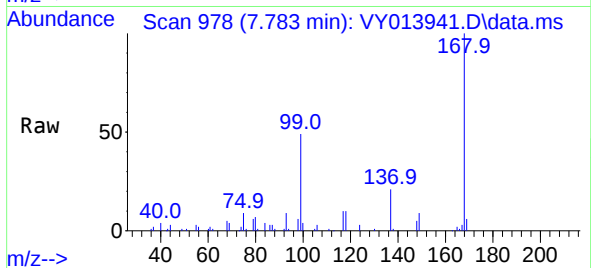
Quant Time: May 31 17:59:04 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052323S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 24 05:25:47 2023  
Response via : Initial Calibration



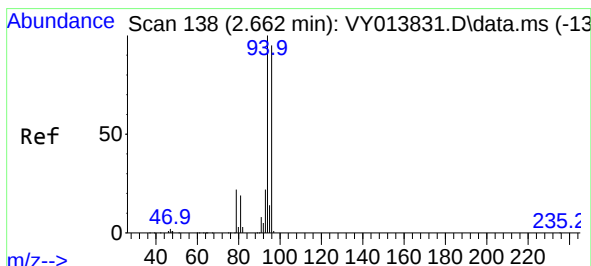
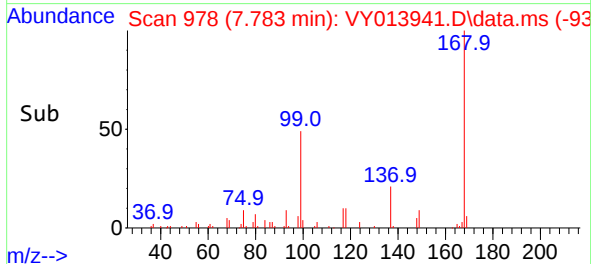
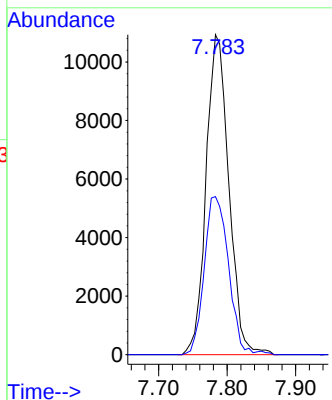


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Instrument :  
MSVOA\_Y  
ClientSampleId :

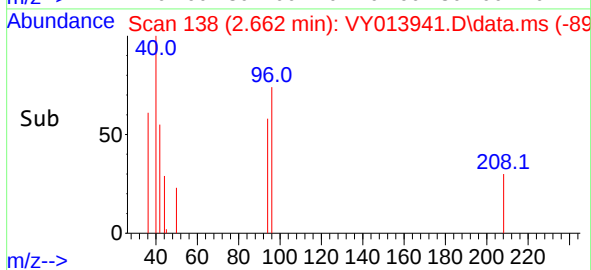
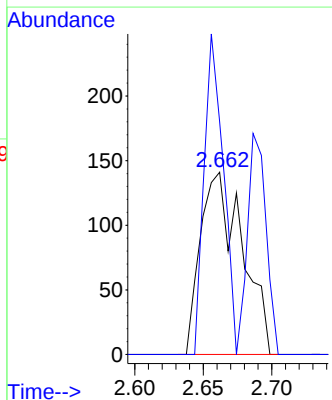
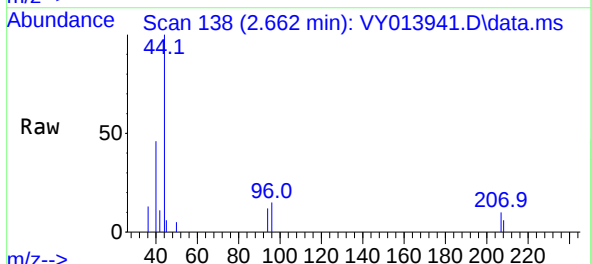


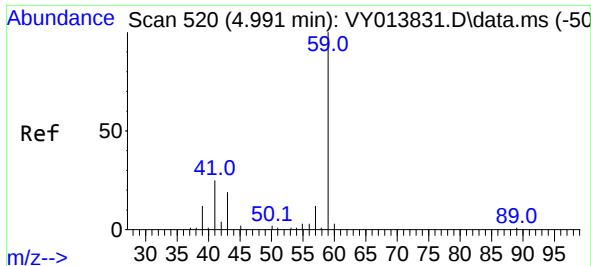
Tgt Ion:168 Resp: 25206  
Ion Ratio Lower Upper  
168 100  
99 49.4 43.4 65.2



#5  
Bromomethane  
Concen: 1.308 ug/l  
RT: 2.662 min Scan# 138  
Delta R.T. 0.000 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

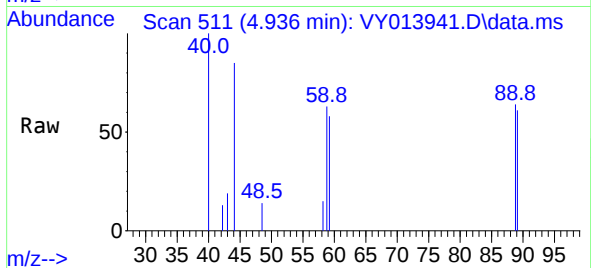
Tgt Ion: 94 Resp: 299  
Ion Ratio Lower Upper  
94 100  
96 127.7 76.2 114.2#



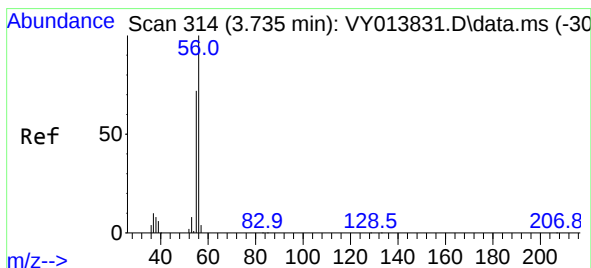
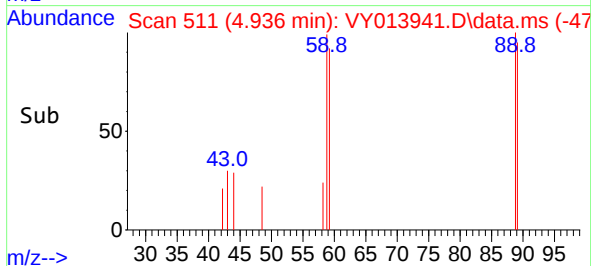
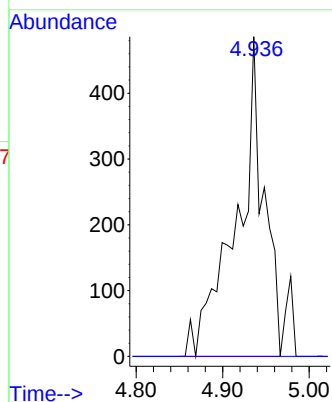


#11  
Tert butyl alcohol  
Concen: 47.137 ug/l  
RT: 4.936 min Scan# 511  
Delta R.T. -0.055 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Instrument :  
MSVOA\_Y  
ClientSampleId :

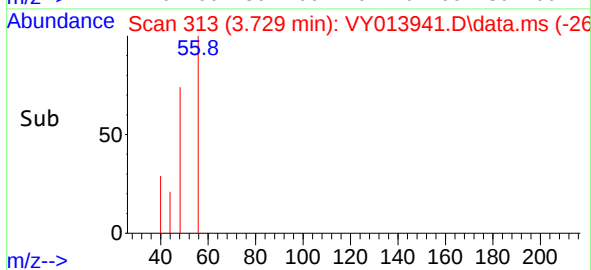
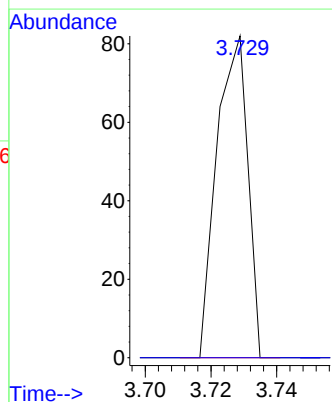
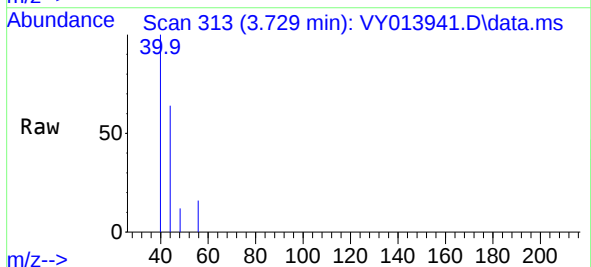


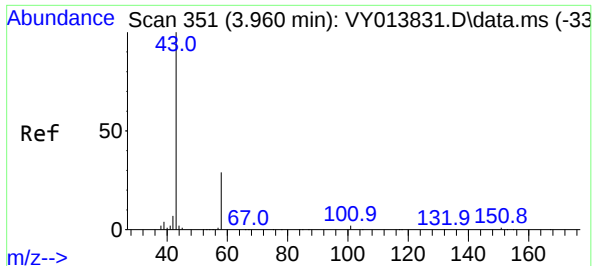
Tgt Ion: 59 Resp: 1053  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#



#13  
Acrolein  
Concen: 1.577 ug/l  
RT: 3.729 min Scan# 313  
Delta R.T. -0.006 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Tgt Ion: 56 Resp: 53  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.2 84.2#

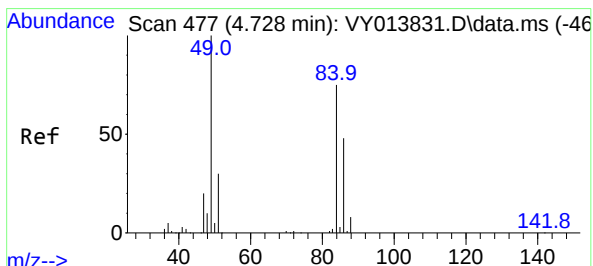
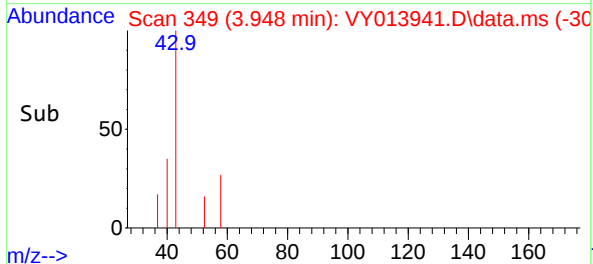
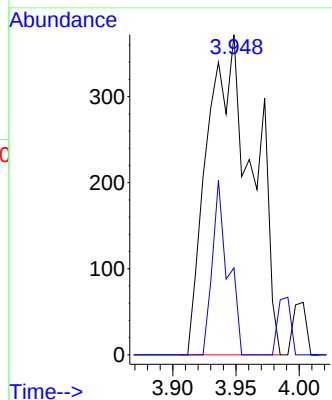
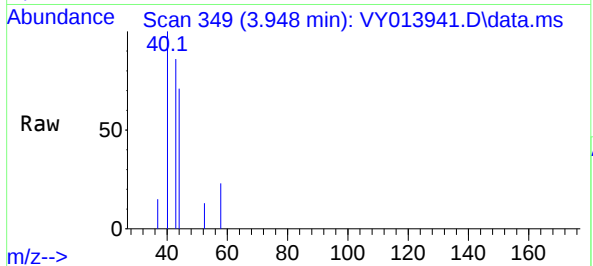




#16  
Acetone  
Concen: 10.838 ug/l  
RT: 3.948 min Scan# 34  
Delta R.T. -0.012 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

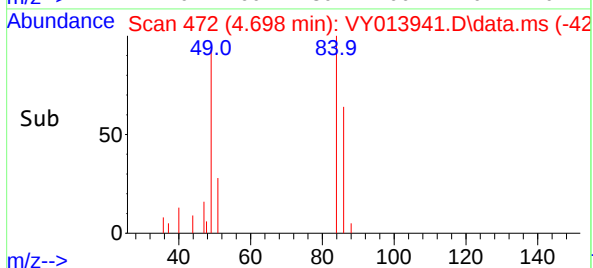
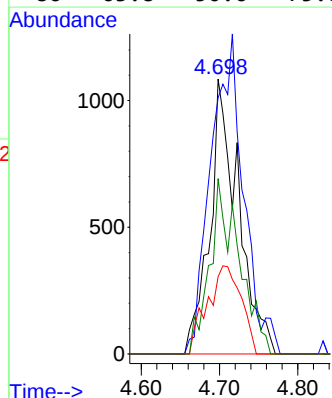
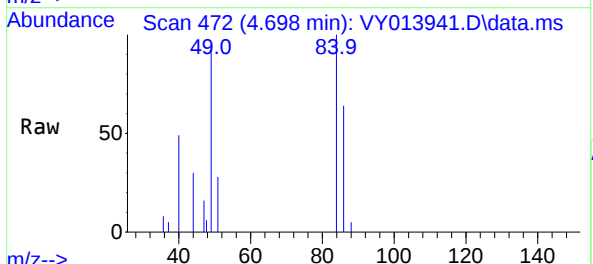
Instrument :  
MSVOA\_Y  
ClientSampleId :

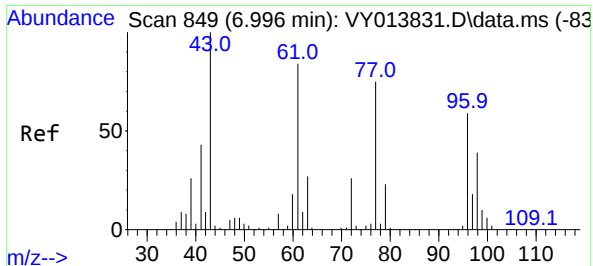
Tgt Ion: 43 Resp: 938  
Ion Ratio Lower Upper  
43 100  
58 27.2 23.3 34.9



#20  
Methylene Chloride  
Concen: 6.768 ug/l  
RT: 4.698 min Scan# 472  
Delta R.T. -0.030 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Tgt Ion: 84 Resp: 2751  
Ion Ratio Lower Upper  
84 100  
49 93.2 106.2 159.2#  
51 28.1 31.4 47.0#  
86 63.8 50.6 75.8





#25

2-Butanone

Concen: 11.732 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.024 min

Lab File: VY013941.D

Acq: 31 May 2023 17:23

Instrument :

MSVOA\_Y

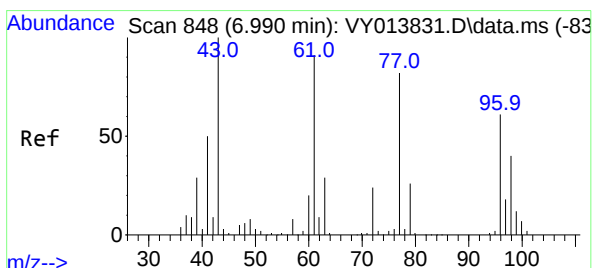
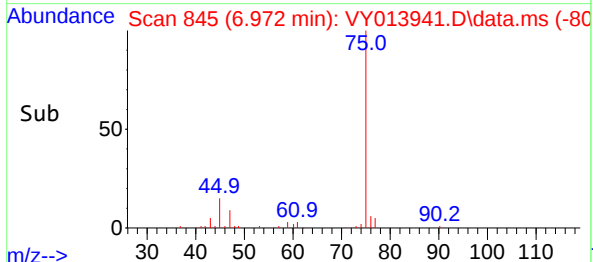
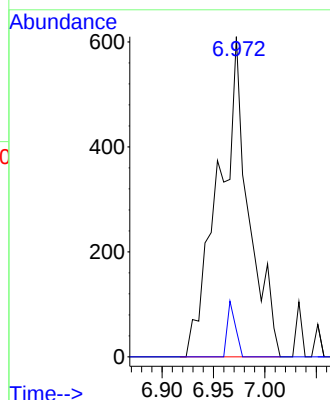
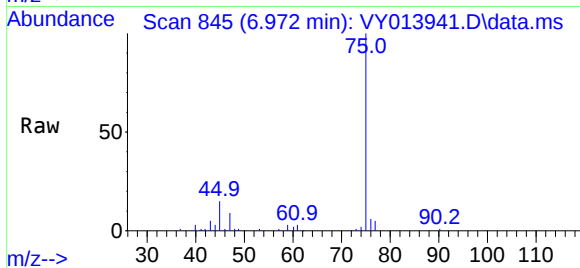
ClientSampleId :

Tgt Ion: 43 Resp: 1239

Ion Ratio Lower Upper

43 100

72 8.4 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 3.212 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.018 min

Lab File: VY013941.D

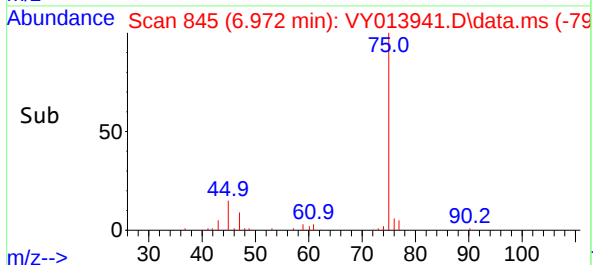
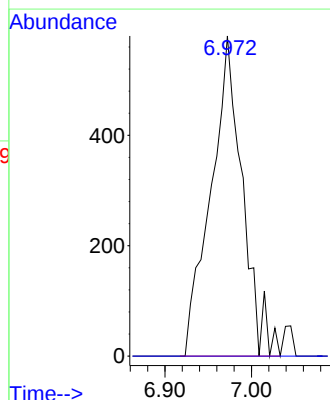
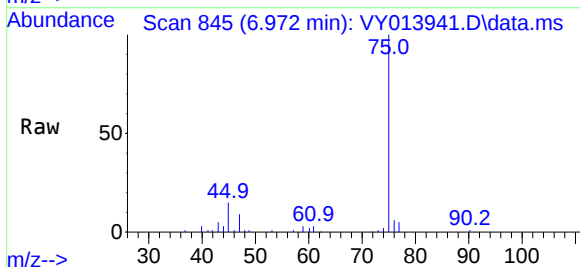
Acq: 31 May 2023 17:23

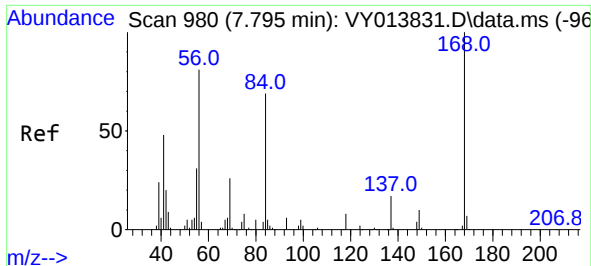
Tgt Ion: 77 Resp: 1468

Ion Ratio Lower Upper

77 100

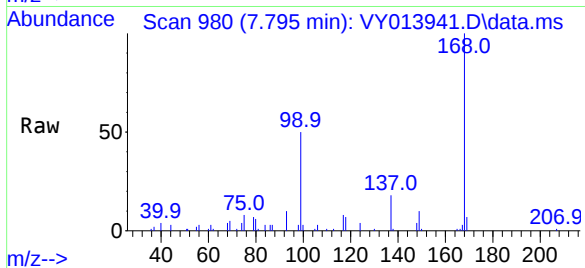
97 0.0 11.2 33.6#



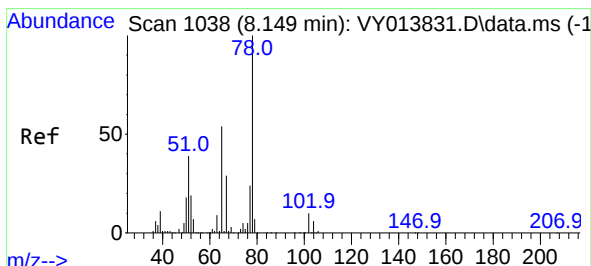
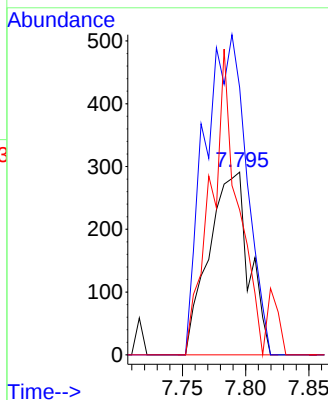
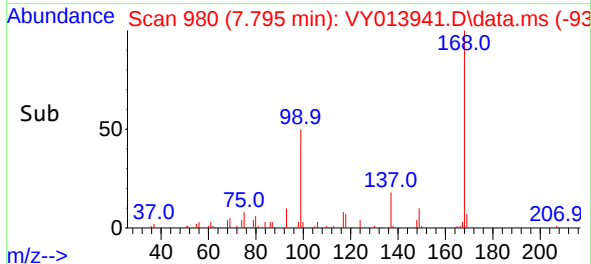


#31  
Cyclohexane  
Concen: 1.426 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Instrument :  
MSVOA\_Y  
ClientSampleId :

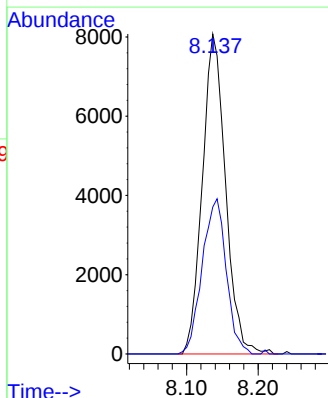
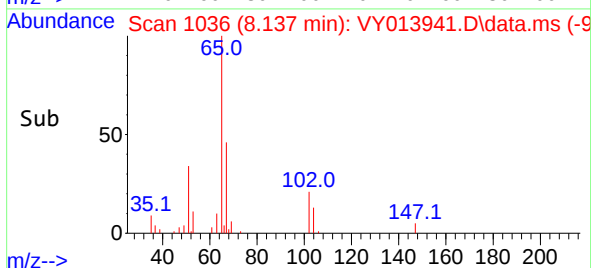
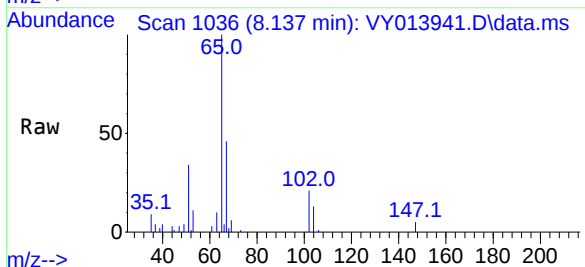


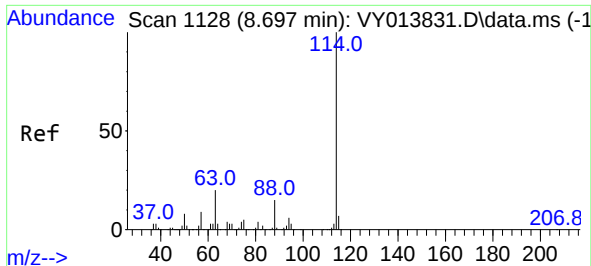
Tgt Ion: 56 Resp: 639  
Ion Ratio Lower Upper  
56 100  
69 146.4 25.8 38.8#  
84 79.4 68.2 102.2



#33  
1,2-Dichloroethane-d4  
Concen: 62.402 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. -0.012 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Tgt Ion: 65 Resp: 18197  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 104.4

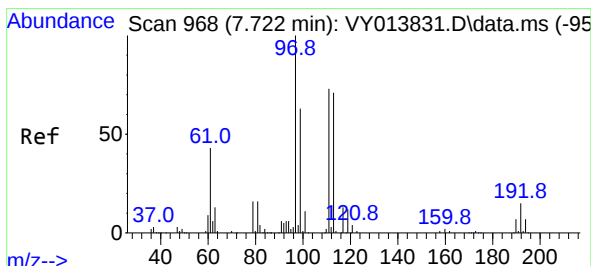
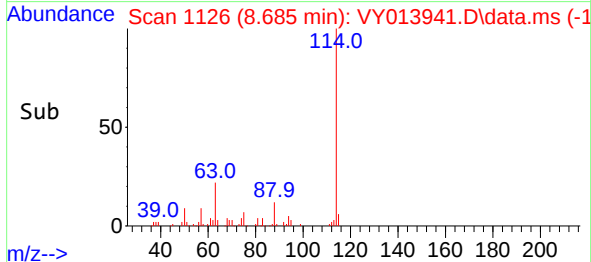
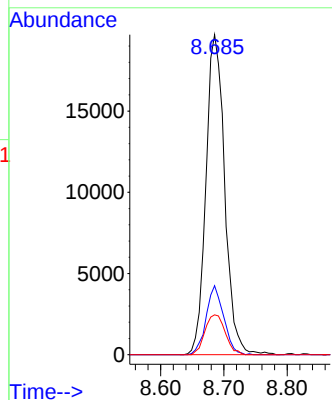
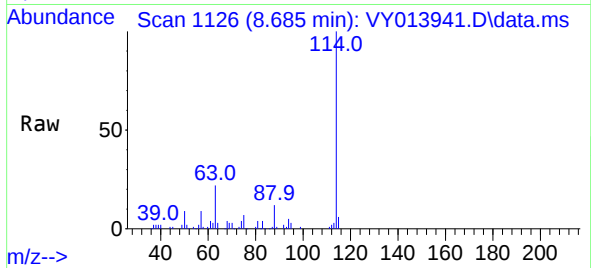




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1128  
Delta R.T. -0.012 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

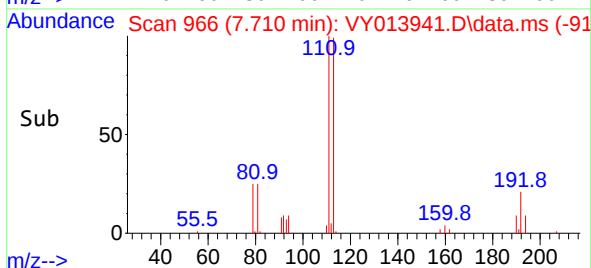
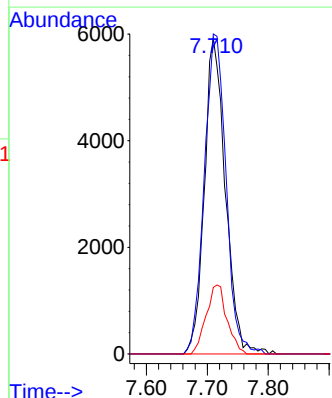
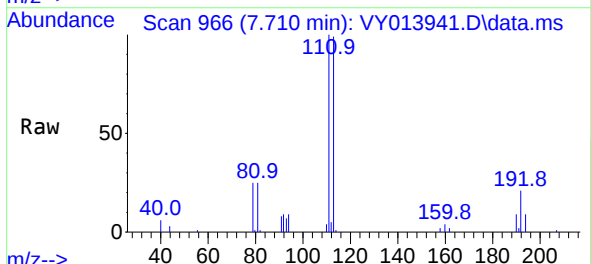
Instrument :  
MSVOA\_Y  
ClientSampleId :

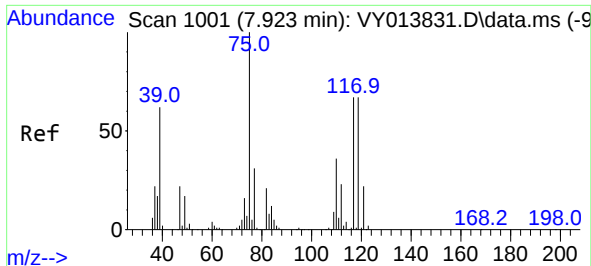
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 114   | Resp: | 40676 |
| Ion      | Ratio | Lower | Upper |
| 114      | 100   |       |       |
| 63       | 21.5  | 0.0   | 40.2  |
| 88       | 12.4  | 0.0   | 30.0  |



#35  
Dibromofluoromethane  
Concen: 54.072 ug/l  
RT: 7.710 min Scan# 966  
Delta R.T. -0.012 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 14204 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 104.6 | 80.4  | 120.6 |
| 192      | 21.5  | 16.6  | 25.0  |





#36

1,1-Dichloropropene

Concen: 4.769 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.140 min

Lab File: VY013941.D

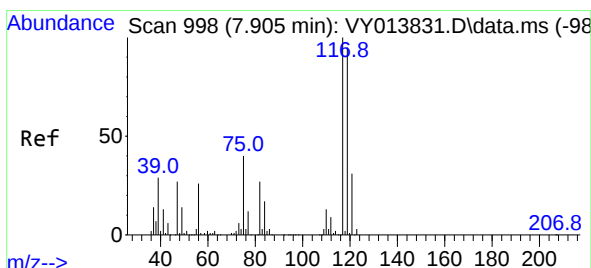
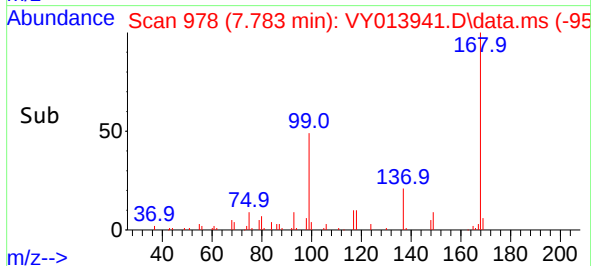
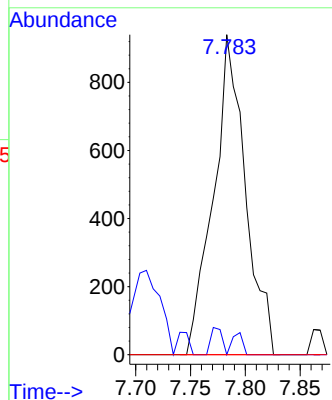
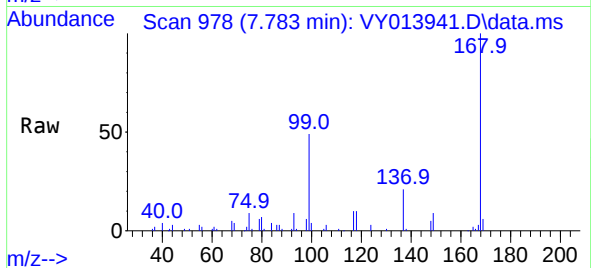
Acq: 31 May 2023 17:23

Instrument :

MSVOA\_Y

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 1908  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 2.3   | 17.5  | 52.6# |
| 77       | 0.0   | 24.4  | 36.6# |



#38

Carbon Tetrachloride

Concen: 4.989 ug/l

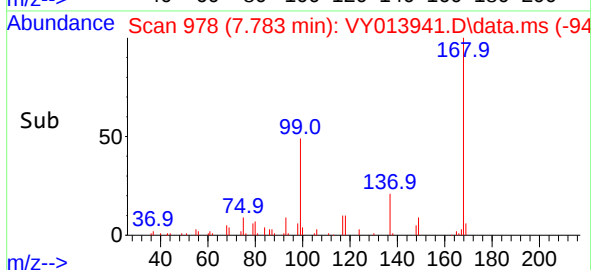
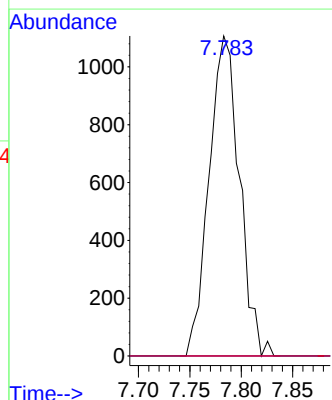
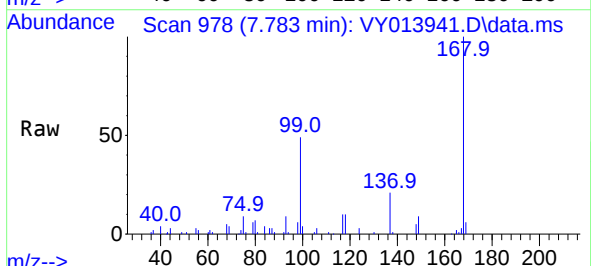
RT: 7.783 min Scan# 978

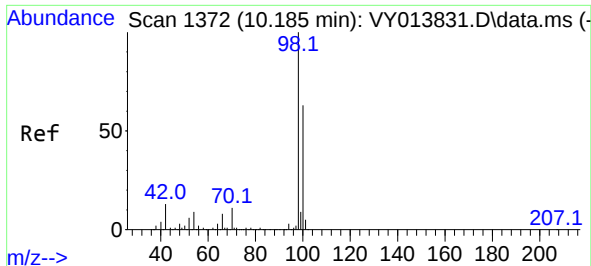
Delta R.T. -0.122 min

Lab File: VY013941.D

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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 2270   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 0.0   | 75.6  | 113.4# |
| 121      | 0.0   | 24.8  | 37.2#  |

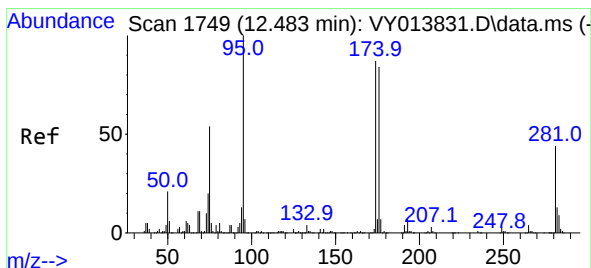
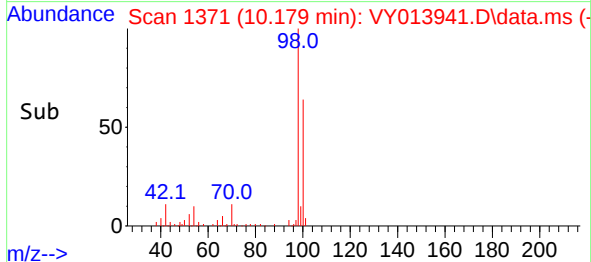
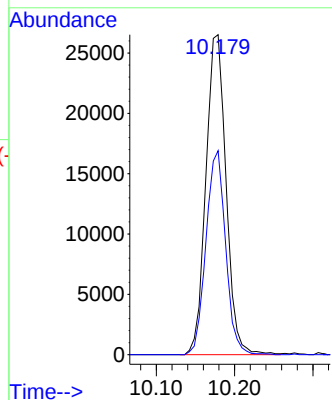
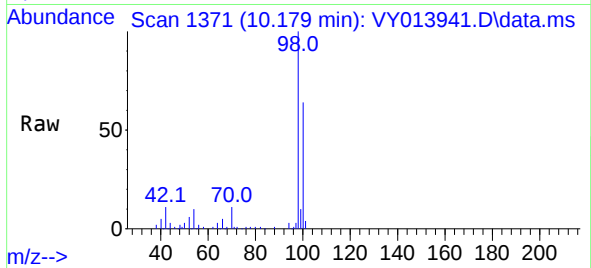




#50  
Toluene-d8  
Concen: 47.524 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

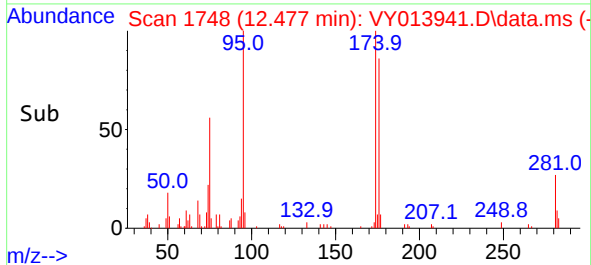
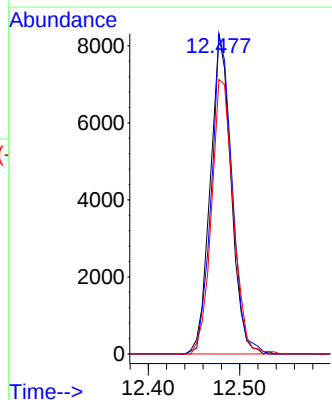
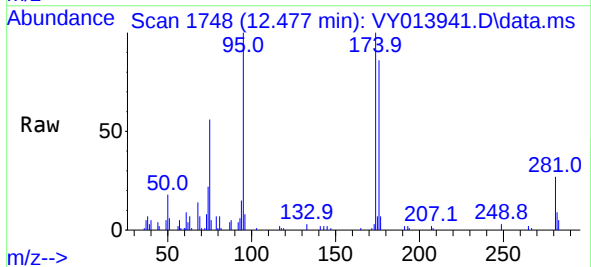
Instrument :  
MSVOA\_Y  
ClientSampleId :

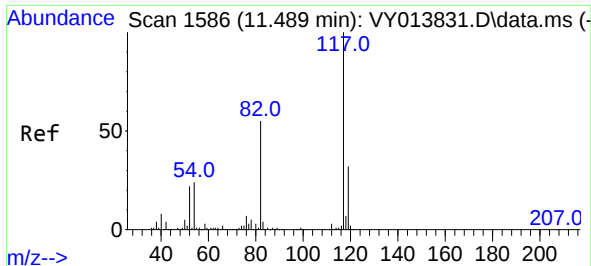
Tgt Ion: 98 Resp: 47448  
Ion Ratio Lower Upper  
98 100  
100 62.0 50.8 76.2



#62  
4-Bromofluorobenzene  
Concen: 39.417 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

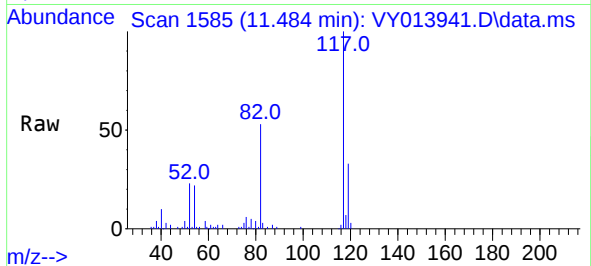
Tgt Ion: 95 Resp: 13081  
Ion Ratio Lower Upper  
95 100  
174 99.1 0.0 176.0  
176 90.1 0.0 170.2



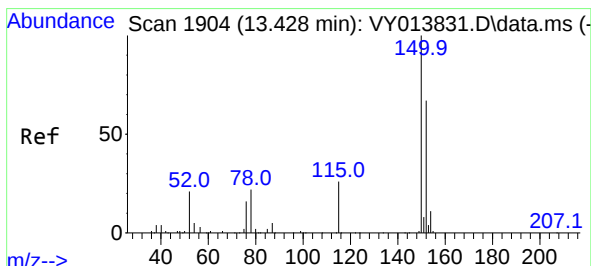
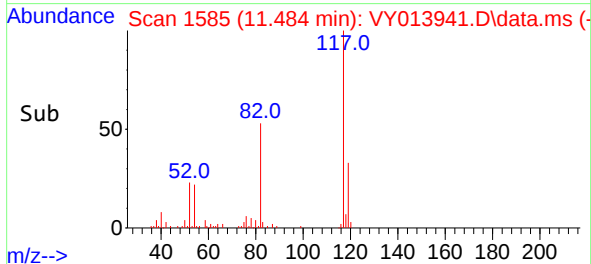
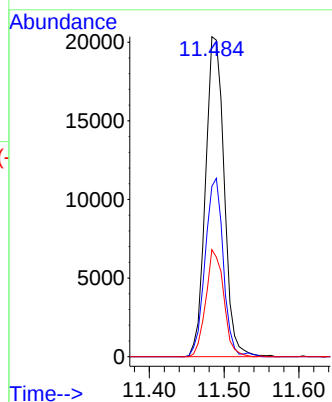


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.484 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Instrument :  
MSVOA\_Y  
ClientSampleId :

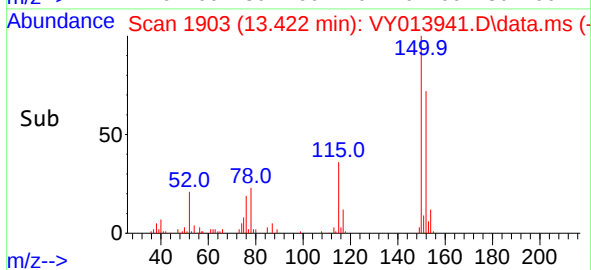
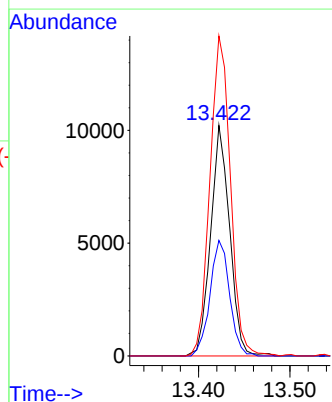
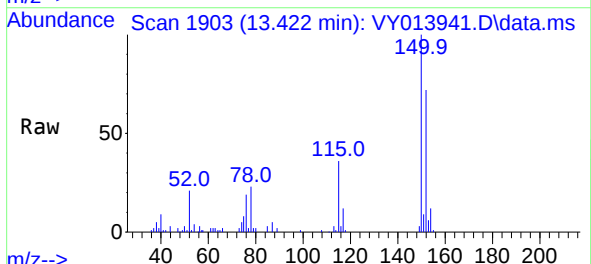


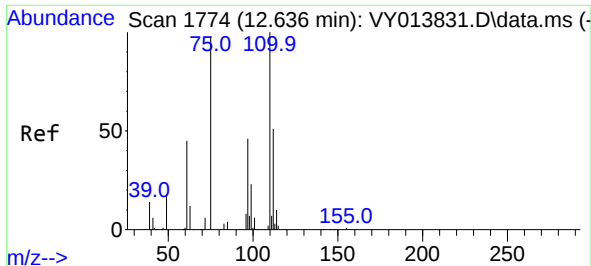
Tgt Ion:117 Resp: 35284  
Ion Ratio Lower Upper  
117 100  
82 53.2 44.2 66.4  
119 33.4 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Tgt Ion:152 Resp: 14781  
Ion Ratio Lower Upper  
152 100  
115 51.6 28.8 86.5  
150 149.2 0.0 353.4

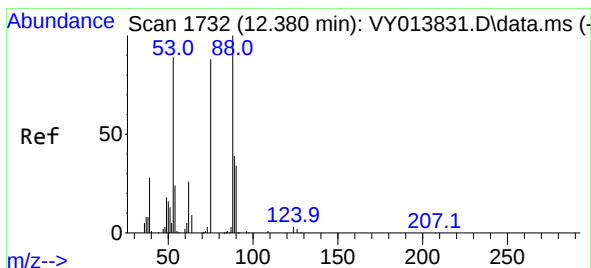
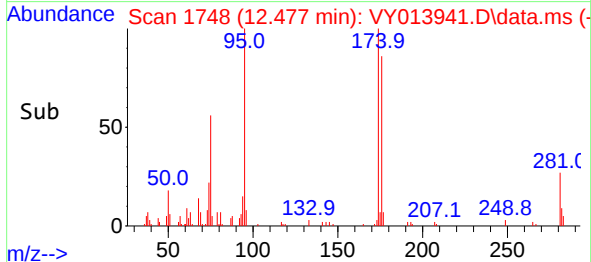
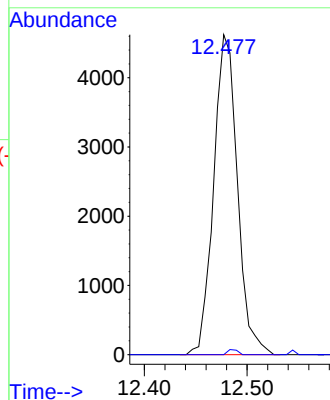
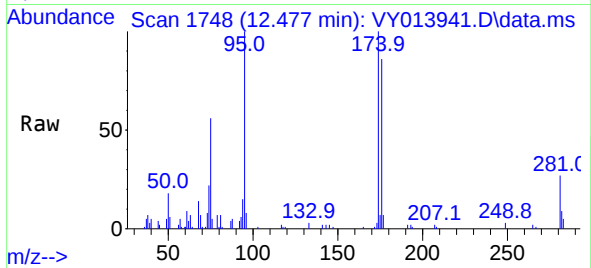




#76  
1,2,3-Trichloropropane  
Concen: 42.527 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.158 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

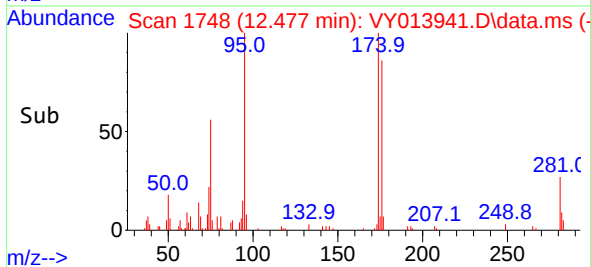
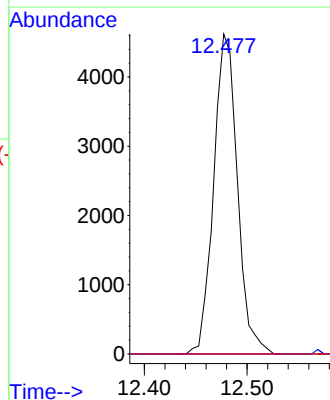
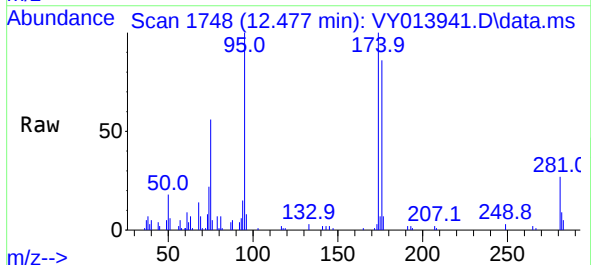
Instrument :  
MSVOA\_Y  
ClientSampleId :

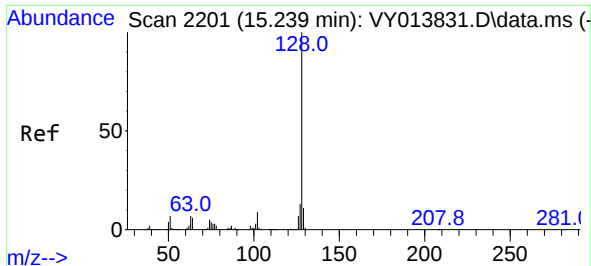
Tgt Ion: 75 Resp: 7412  
Ion Ratio Lower Upper  
75 100  
77 0.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.314 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.098 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

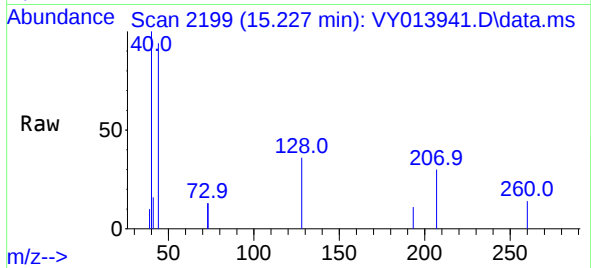
Tgt Ion: 75 Resp: 7412  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.7 119.5#  
89 0.0 36.4 54.6#





#95  
Naphthalene  
Concen: 4.948 ug/l  
RT: 15.227 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: VY013941.D  
Acq: 31 May 2023 17:23

Instrument :  
MSVOA\_Y  
ClientSampleId :



Tgt Ion:128 Resp: 277  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 9.0 13.4#

