

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053123\  
 Data File : VY013947.D  
 Acq On : 31 May 2023 19:43  
 Operator : KP/MD  
 Sample : 02981-04  
 Misc : 5.77g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-4

Quant Time: Jun 01 03:31:42 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

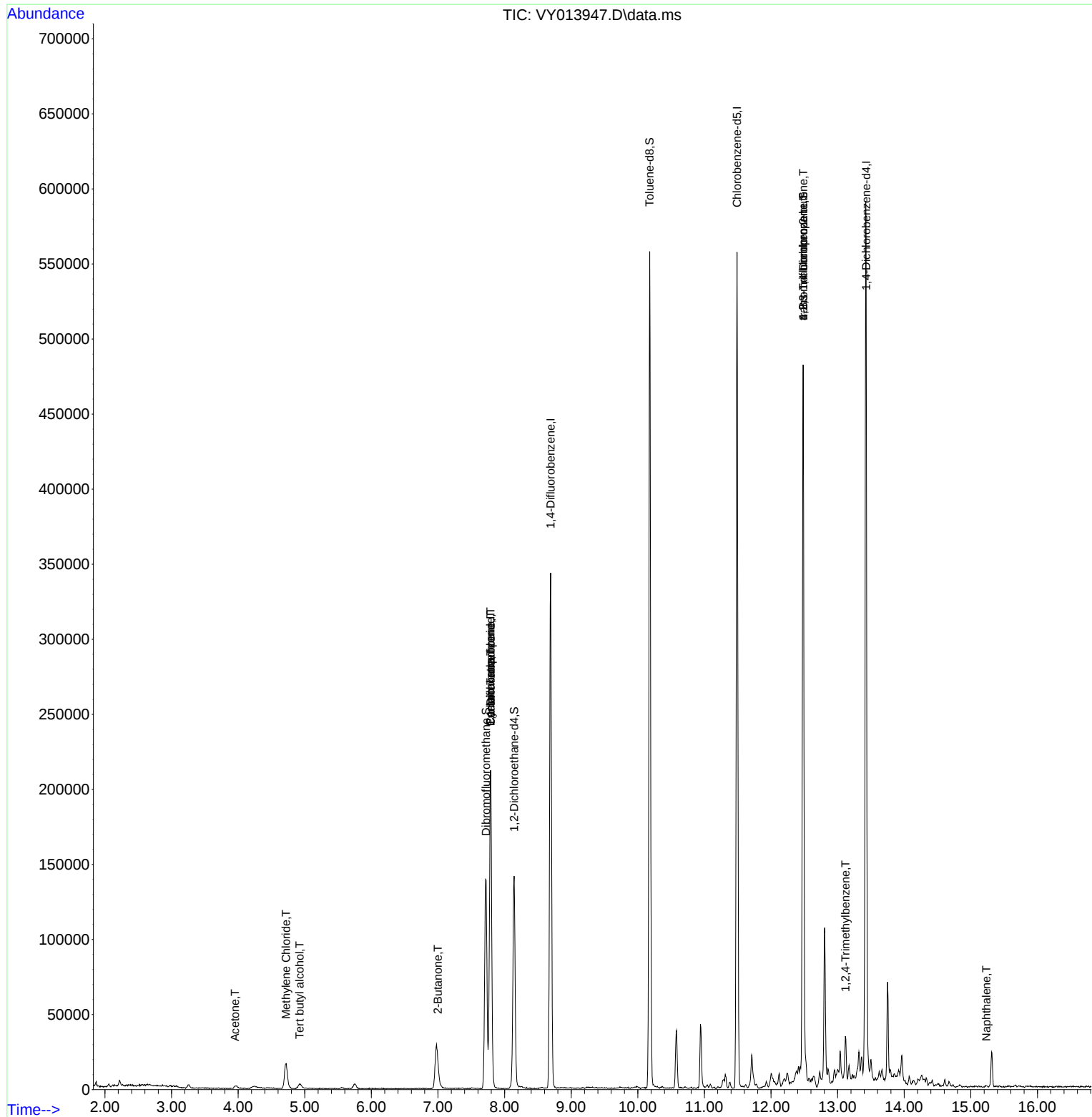
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| -----                         |           |                |          |            |        |          |
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.789     | 168            | 164394   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114            | 285697   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489    | 117            | 291898   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152            | 144816   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143     | 65             | 116139   | 61.065     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 50 - 163 | Recovery | = 122.140% |        |          |
| 35) Dibromofluoromethane      | 7.722     | 113            | 98139    | 53.191     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 54 - 147 | Recovery | = 106.380% |        |          |
| 50) Toluene-d8                | 10.179    | 98             | 351444   | 50.117     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 58 - 134 | Recovery | = 100.240% |        |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95             | 128780   | 55.248     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 30 - 143 | Recovery | = 110.500% |        |          |
| Target Compounds              |           |                |          |            |        |          |
|                               |           |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 4.924     | 59             | 3714     | 25.491     | ug/l # | 73       |
| 16) Acetone                   | 3.954     | 43             | 1713     | 3.035      | ug/l   | 99       |
| 20) Methylene Chloride        | 4.716     | 84             | 11989    | 3.635      | ug/l   | 92       |
| 25) 2-Butanone                | 6.996     | 43             | 2974     | 4.318      | ug/l # | 66       |
| 31) Cyclohexane               | 7.789     | 56             | 3964     | 1.357      | ug/l # | 28       |
| 36) 1,1-Dichloropropene       | 7.789     | 75             | 12923    | 4.599      | ug/l # | 53       |
| 38) Carbon Tetrachloride      | 7.789     | 117            | 16268    | 5.090      | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75             | 70764    | 41.441     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75             | 70764    | 89.956     | ug/l # | 10       |
| 84) 1,2,4-Trimethylbenzene    | 13.117    | 105            | 15087    | 1.727      | ug/l   | 99       |
| 95) Naphthalene               | 15.233    | 128            | 853      | 4.674      | ug/l # | 73       |
| -----                         |           |                |          |            |        |          |

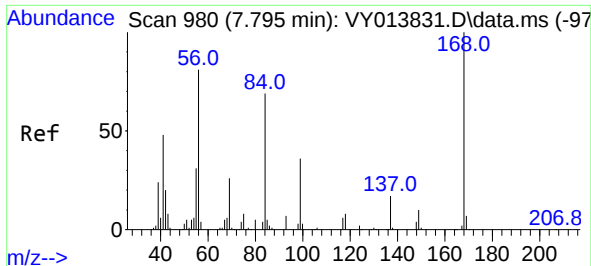
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY053123\  
Data File : VY013947.D  
Acq On : 31 May 2023 19:43  
Operator : KP/MD  
Sample : 02981-04  
Misc : 5.77g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

Quant Time: Jun 01 03:31:42 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

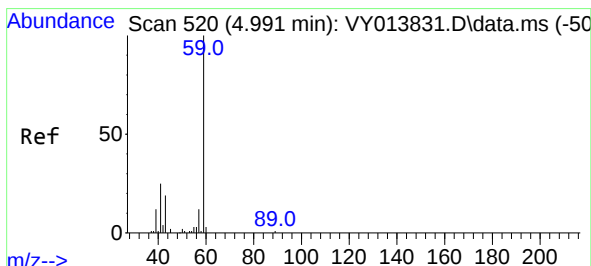
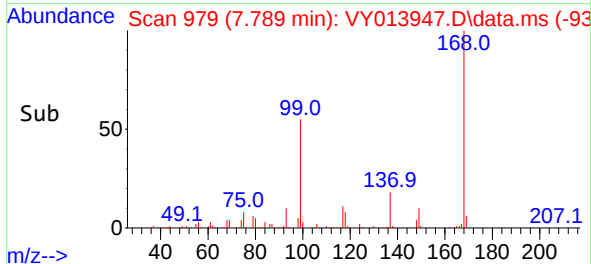
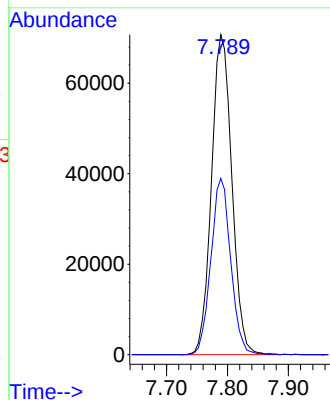
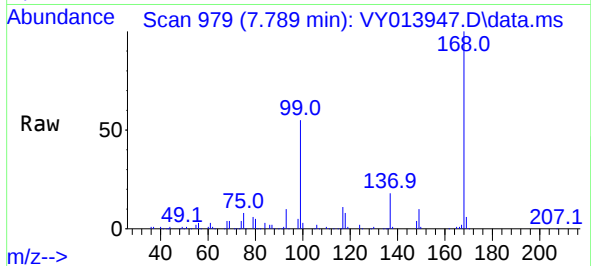




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

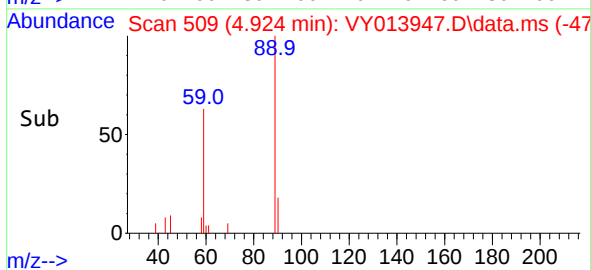
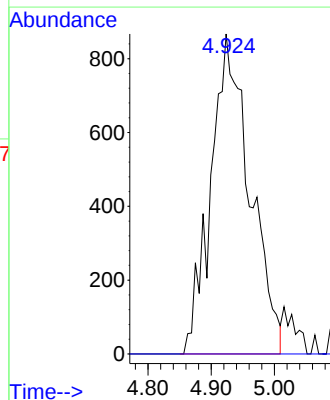
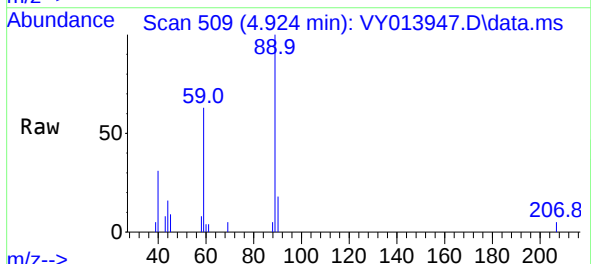
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

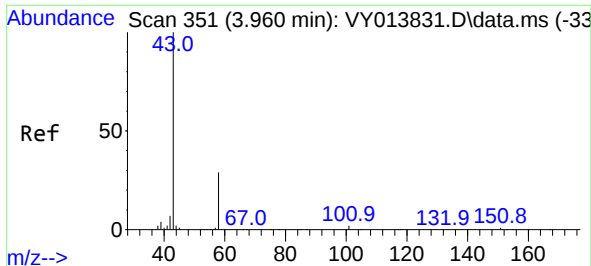
Tgt Ion:168 Resp: 164394  
Ion Ratio Lower Upper  
168 100  
99 55.0 43.4 65.2



#11  
Tert butyl alcohol  
Concen: 25.491 ug/l  
RT: 4.924 min Scan# 509  
Delta R.T. -0.067 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 59 Resp: 3714  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#

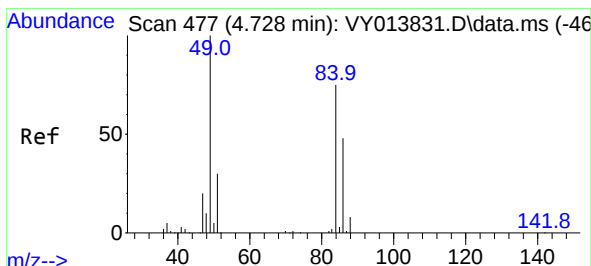
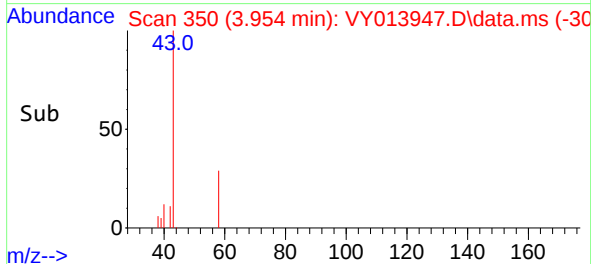
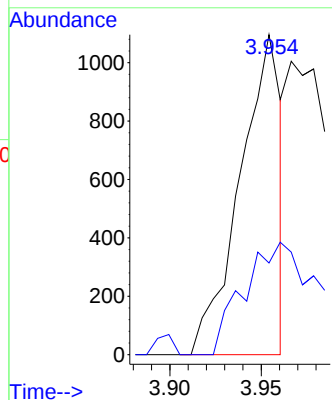
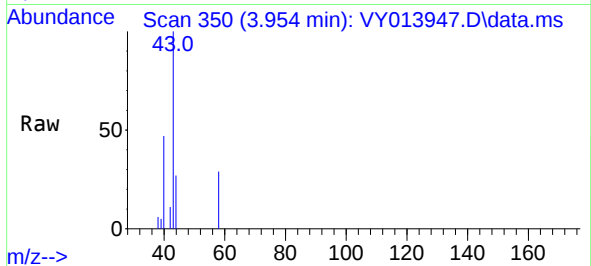




#16  
Acetone  
Concen: 3.035 ug/l  
RT: 3.954 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

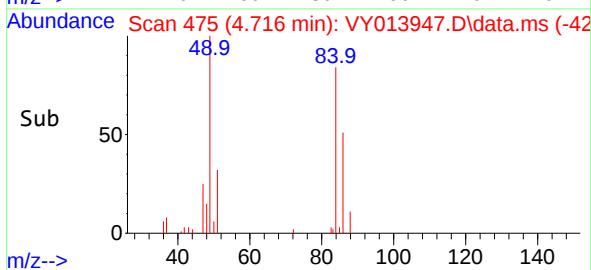
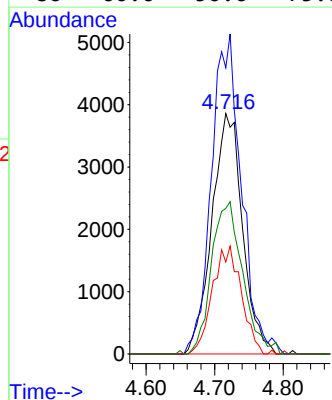
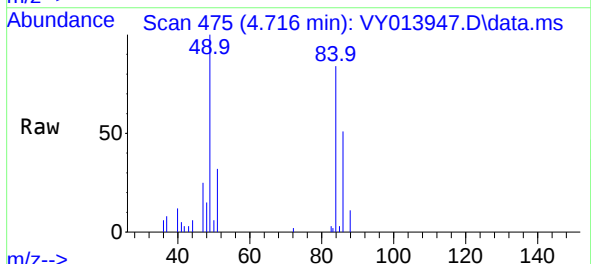
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

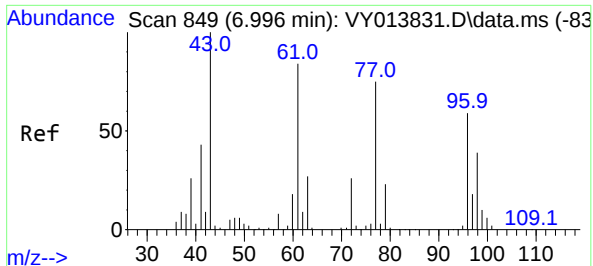
Tgt Ion: 43 Resp: 1713  
Ion Ratio Lower Upper  
43 100  
58 28.6 23.3 34.9



#20  
Methylene Chloride  
Concen: 3.635 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. -0.012 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 84 Resp: 11989  
Ion Ratio Lower Upper  
84 100  
49 119.0 106.2 159.2  
51 38.3 31.4 47.0  
86 60.6 50.6 75.8

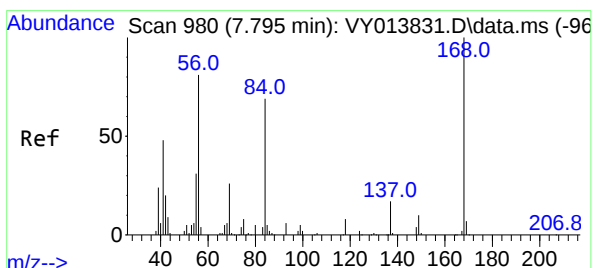
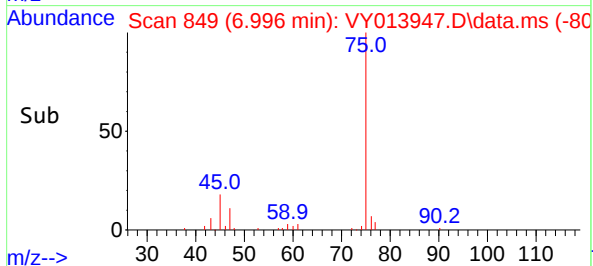
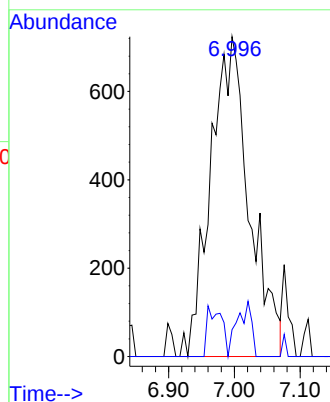
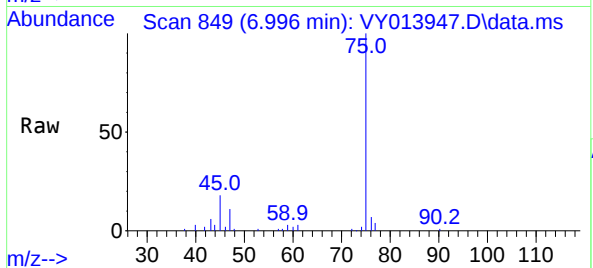




#25  
2-Butanone  
Concen: 4.318 ug/l  
RT: 6.996 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

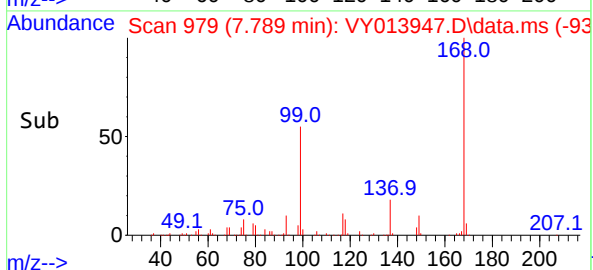
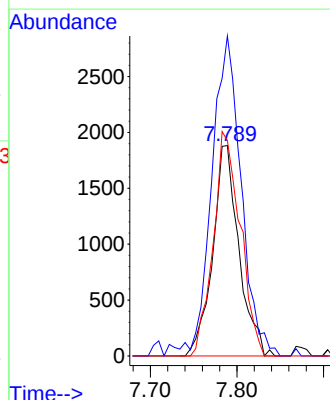
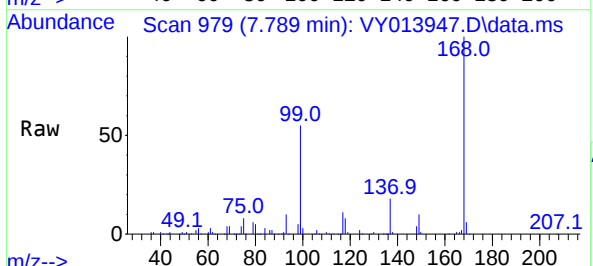
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

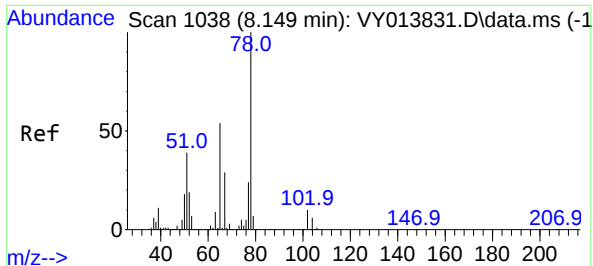
Tgt Ion: 43 Resp: 2974  
Ion Ratio Lower Upper  
43 100  
72 8.4 20.5 30.7#



#31  
Cyclohexane  
Concen: 1.357 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.006 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 56 Resp: 3964  
Ion Ratio Lower Upper  
56 100  
69 152.1 25.8 38.8#  
84 102.4 68.2 102.2#





#33

1,2-Dichloroethane-d4

Concen: 61.065 ug/l

RT: 8.143 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY013947.D

Acq: 31 May 2023 19:43

Instrument :

MSVOA\_Y

ClientSampleId :

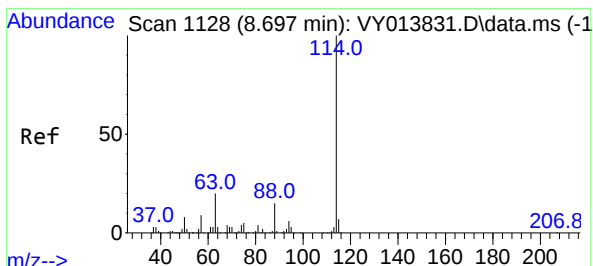
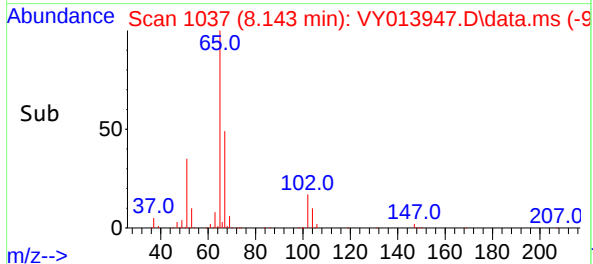
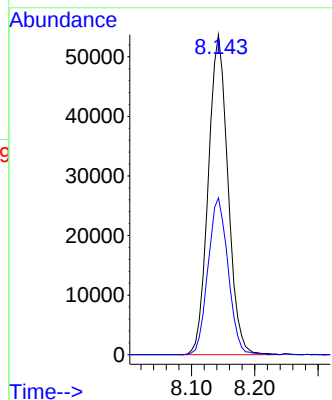
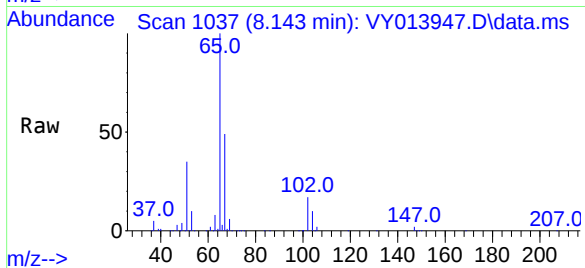
TP-4

Tgt Ion: 65 Resp: 116139

Ion Ratio Lower Upper

65 100

67 49.9 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY013947.D

Acq: 31 May 2023 19:43

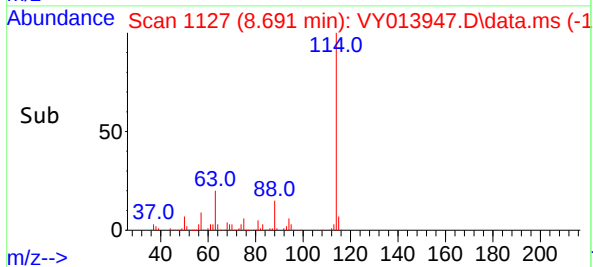
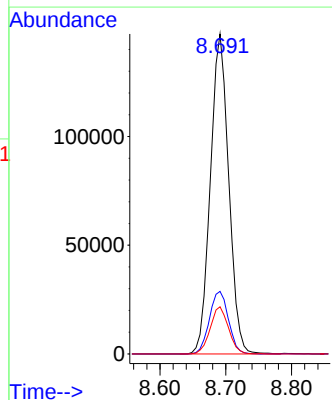
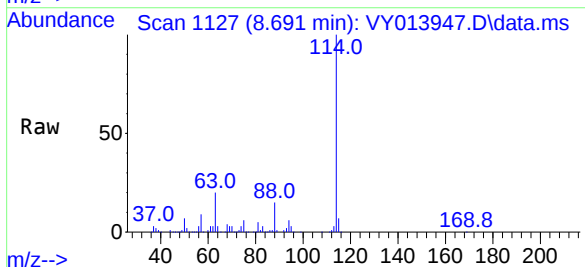
Tgt Ion:114 Resp: 285697

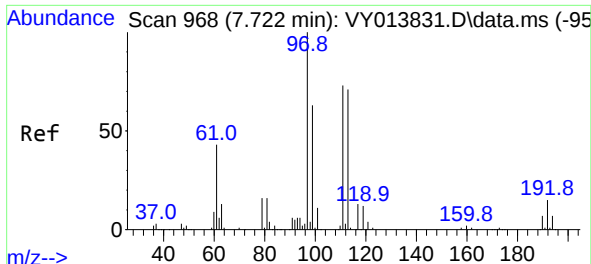
Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.2

88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.191 ug/l

RT: 7.722 min Scan# 9

Delta R.T. 0.000 min

Lab File: VY013947.D

Acq: 31 May 2023 19:43

Instrument :

MSVOA\_Y

ClientSampleId :

TP-4

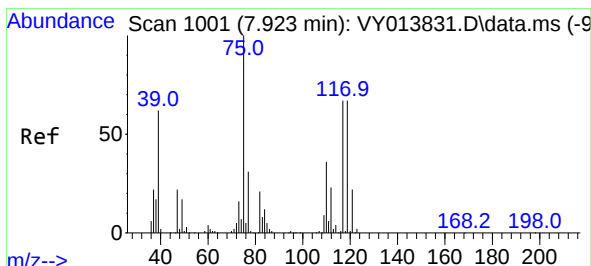
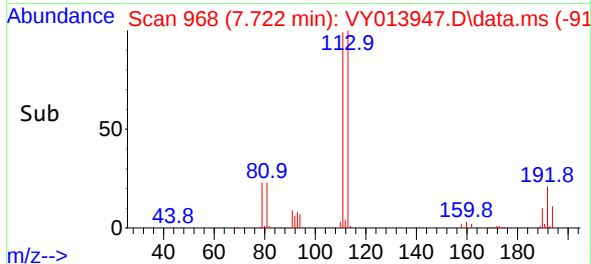
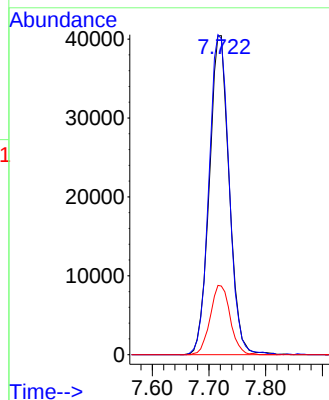
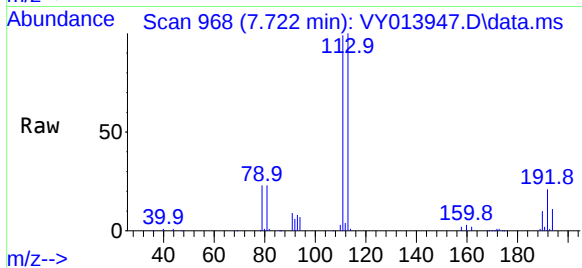
Tgt Ion:113 Resp: 98139

Ion Ratio Lower Upper

113 100

111 101.7 80.4 120.6

192 21.8 16.6 25.0



#36

1,1-Dichloropropene

Concen: 4.599 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.134 min

Lab File: VY013947.D

Acq: 31 May 2023 19:43

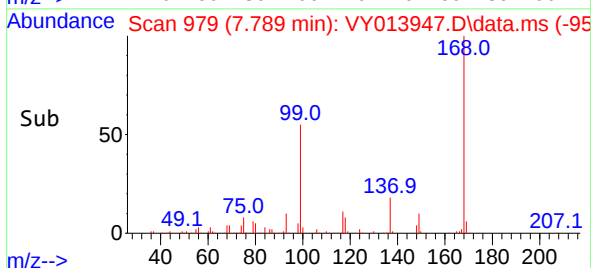
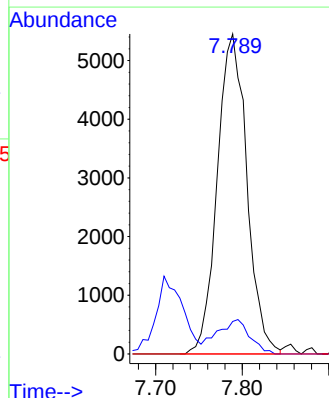
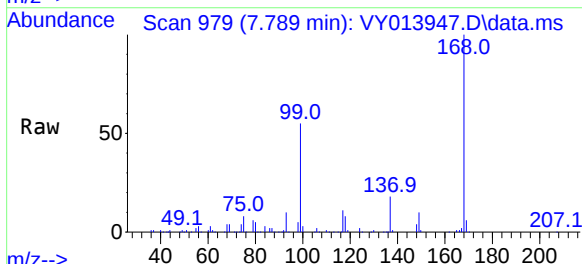
Tgt Ion: 75 Resp: 12923

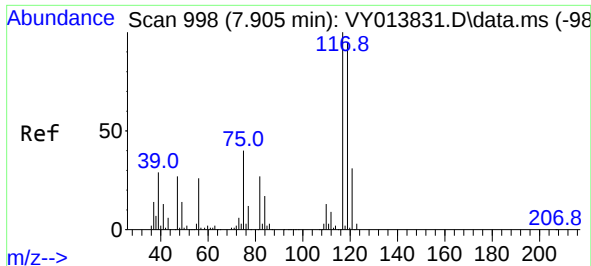
Ion Ratio Lower Upper

75 100

110 11.9 17.5 52.6#

77 0.0 24.4 36.6#

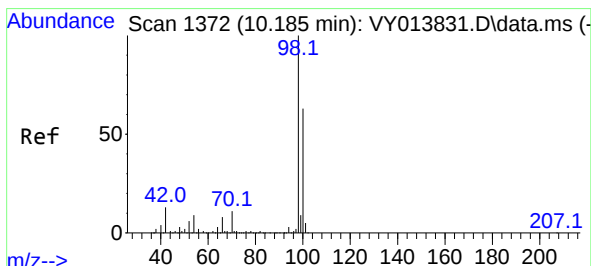
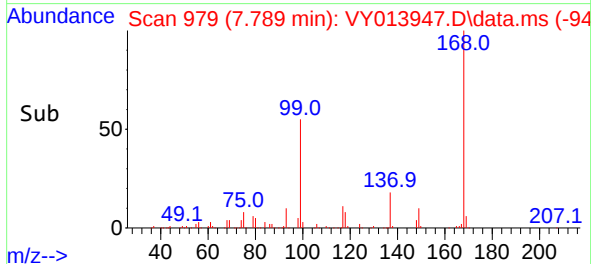
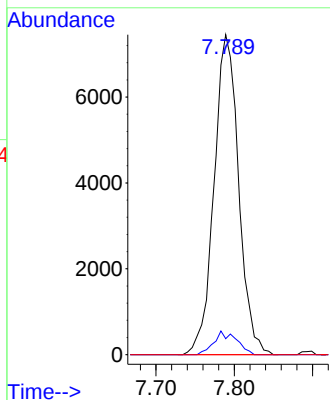
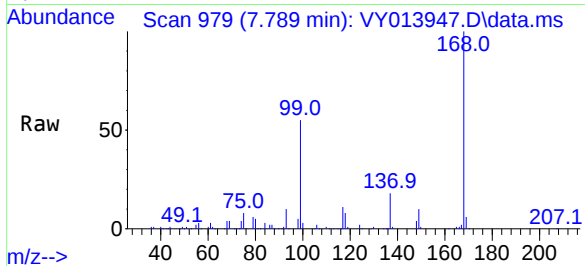




#38  
Carbon Tetrachloride  
Concen: 5.090 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

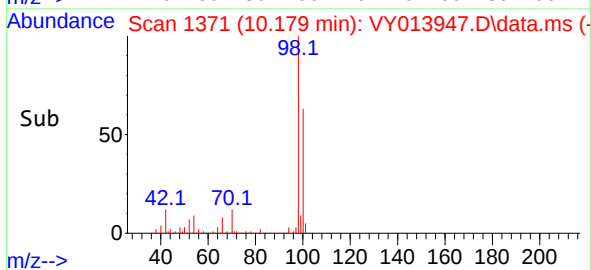
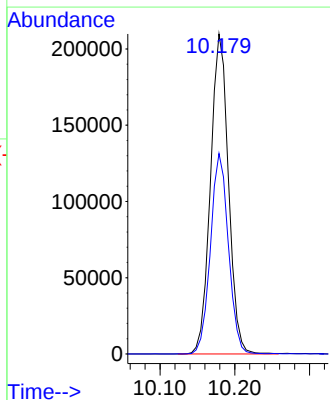
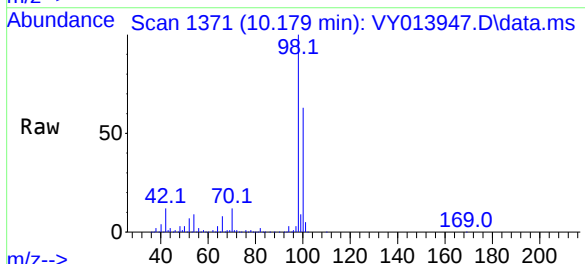
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

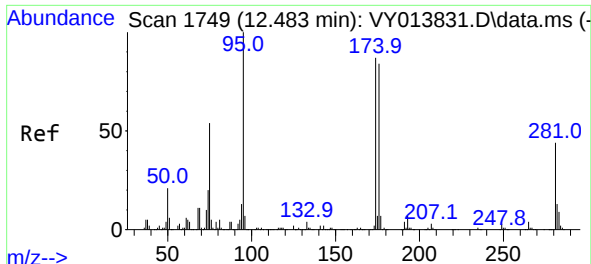
Tgt Ion:117 Resp: 16268  
Ion Ratio Lower Upper  
117 100  
119 5.0 75.6 113.4#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 50.117 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.006 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 98 Resp: 351444  
Ion Ratio Lower Upper  
98 100  
100 62.5 50.8 76.2

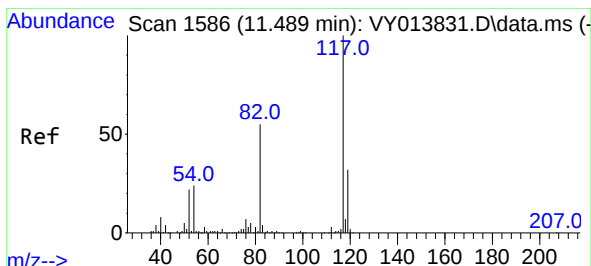
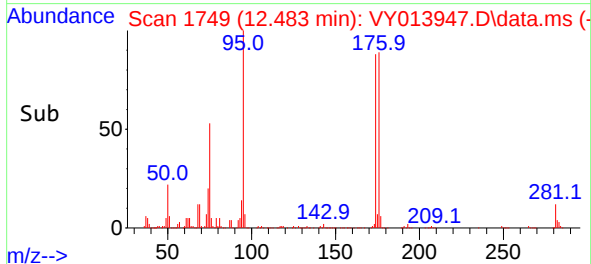
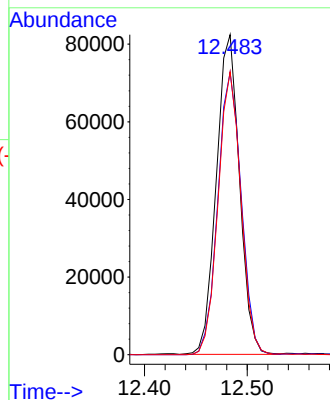
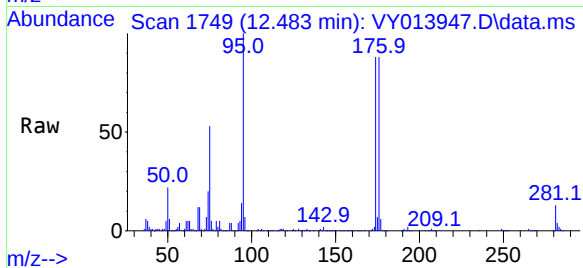




#62  
4-Bromofluorobenzene  
Concen: 55.248 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

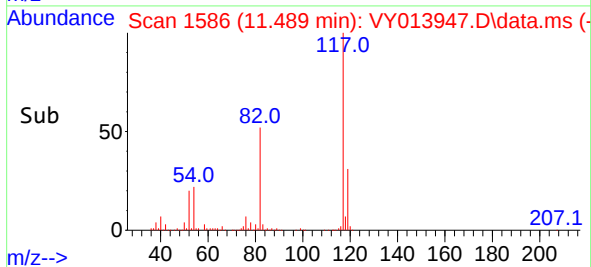
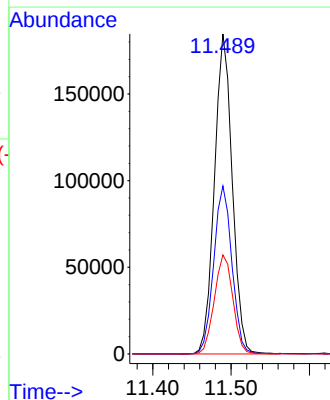
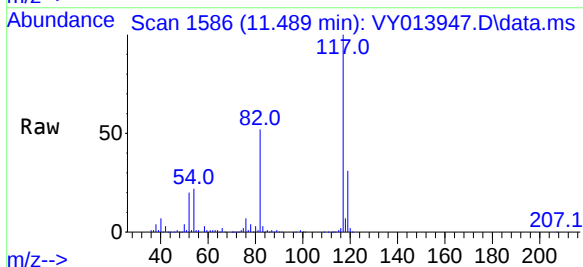
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

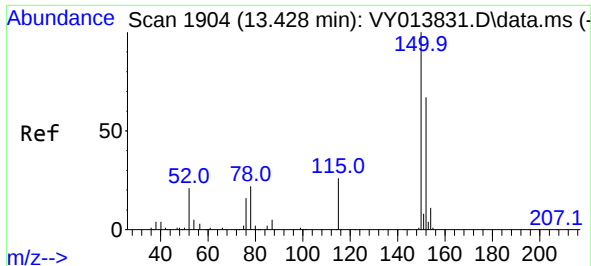
Tgt Ion: 95 Resp: 128780  
Ion Ratio Lower Upper  
95 100  
174 89.1 0.0 176.0  
176 87.1 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 117 Resp: 291898  
Ion Ratio Lower Upper  
117 100  
82 52.5 44.2 66.4  
119 31.0 25.7 38.5

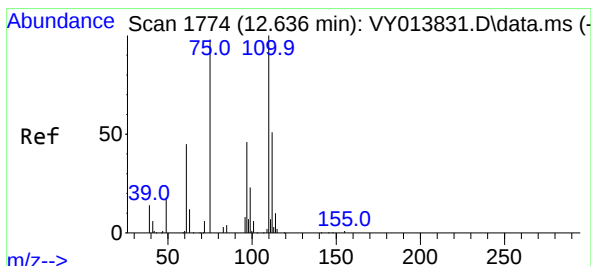
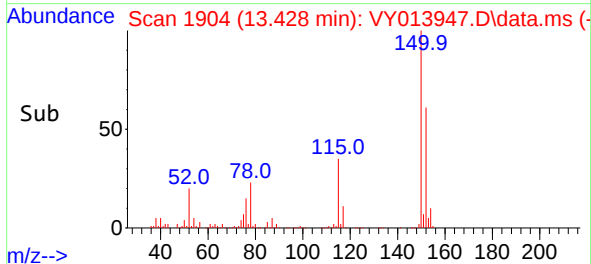
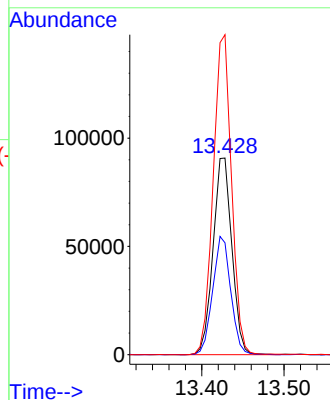
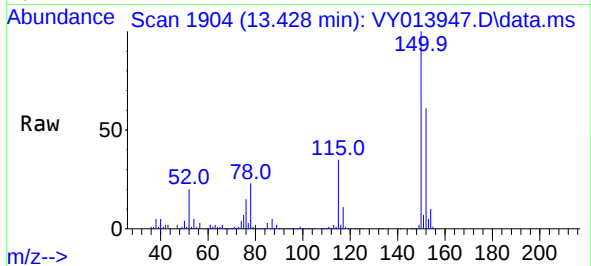




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

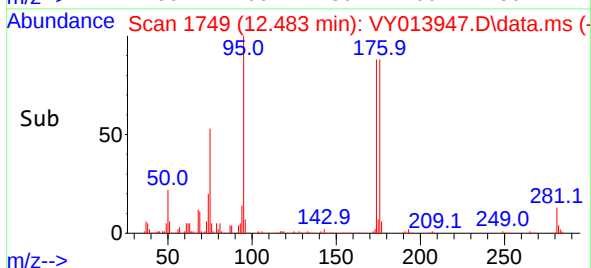
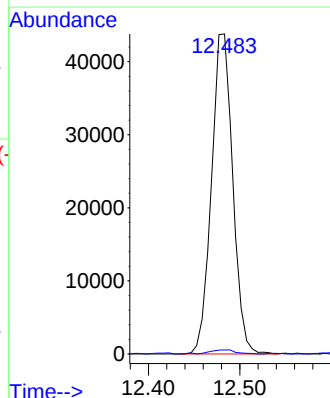
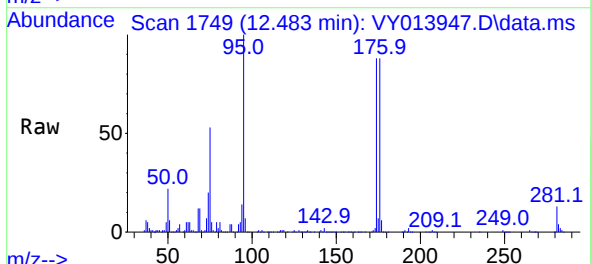
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

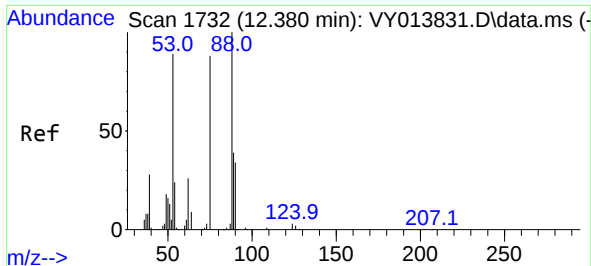
Tgt Ion:152 Resp: 144816  
Ion Ratio Lower Upper  
152 100  
115 57.7 28.8 86.5  
150 158.3 0.0 353.4



#76  
1,2,3-Trichloropropane  
Concen: 41.441 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 75 Resp: 70764  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#

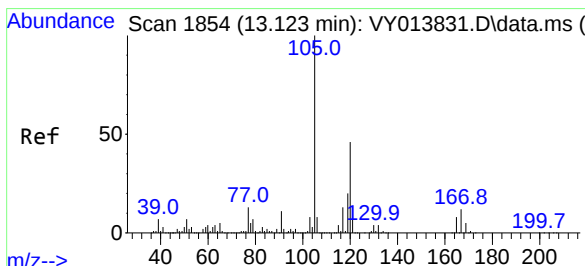
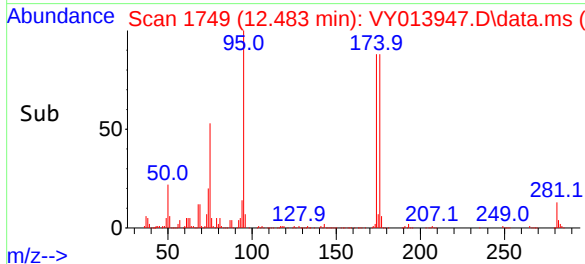
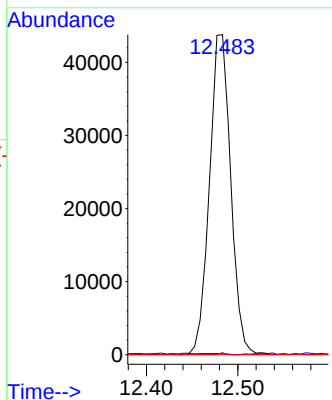
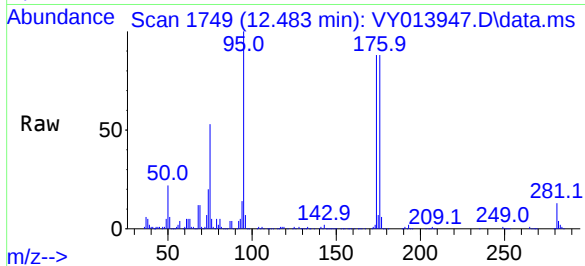




#81  
trans-1,4-Dichloro-2-butene  
Concen: 89.956 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

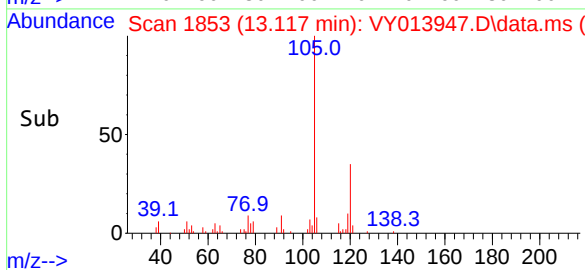
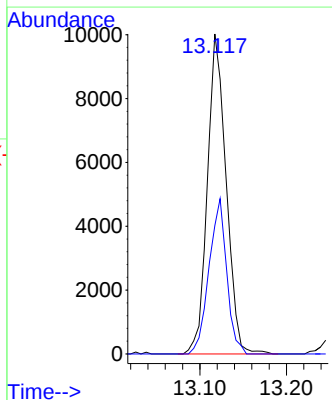
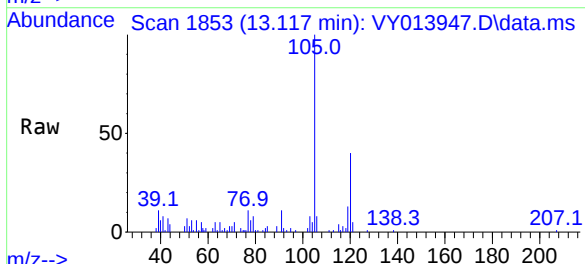
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-4

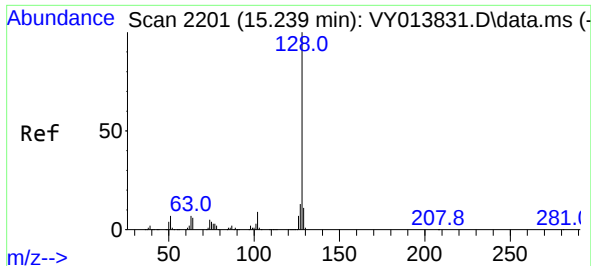
Tgt Ion: 75 Resp: 70764  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.7 119.5#  
89 0.1 36.4 54.6#



#84  
1,2,4-Trimethylbenzene  
Concen: 1.727 ug/l  
RT: 13.117 min Scan# 1853  
Delta R.T. -0.006 min  
Lab File: VY013947.D  
Acq: 31 May 2023 19:43

Tgt Ion: 105 Resp: 15087  
Ion Ratio Lower Upper  
105 100  
120 45.7 22.4 67.3





#95

Naphthalene

Concen: 4.674 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY013947.D

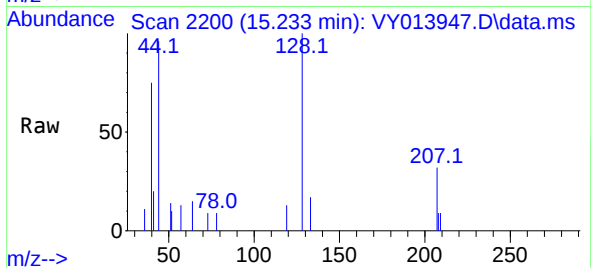
Acq: 31 May 2023 19:43

Instrument :

MSVOA\_Y

ClientSampleId :

TP-4



Tgt Ion:128 Resp: 853

Ion Ratio Lower Upper

128 100

127 3.6 10.7 16.1#

129 0.0 9.0 13.4#

