

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052423\  
 Data File : VY013852.D  
 Acq On : 24 May 2023 17:32  
 Operator : KP/MD  
 Sample : 02848-20  
 Misc : 4.66g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP6

Quant Time: May 25 07:09:34 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

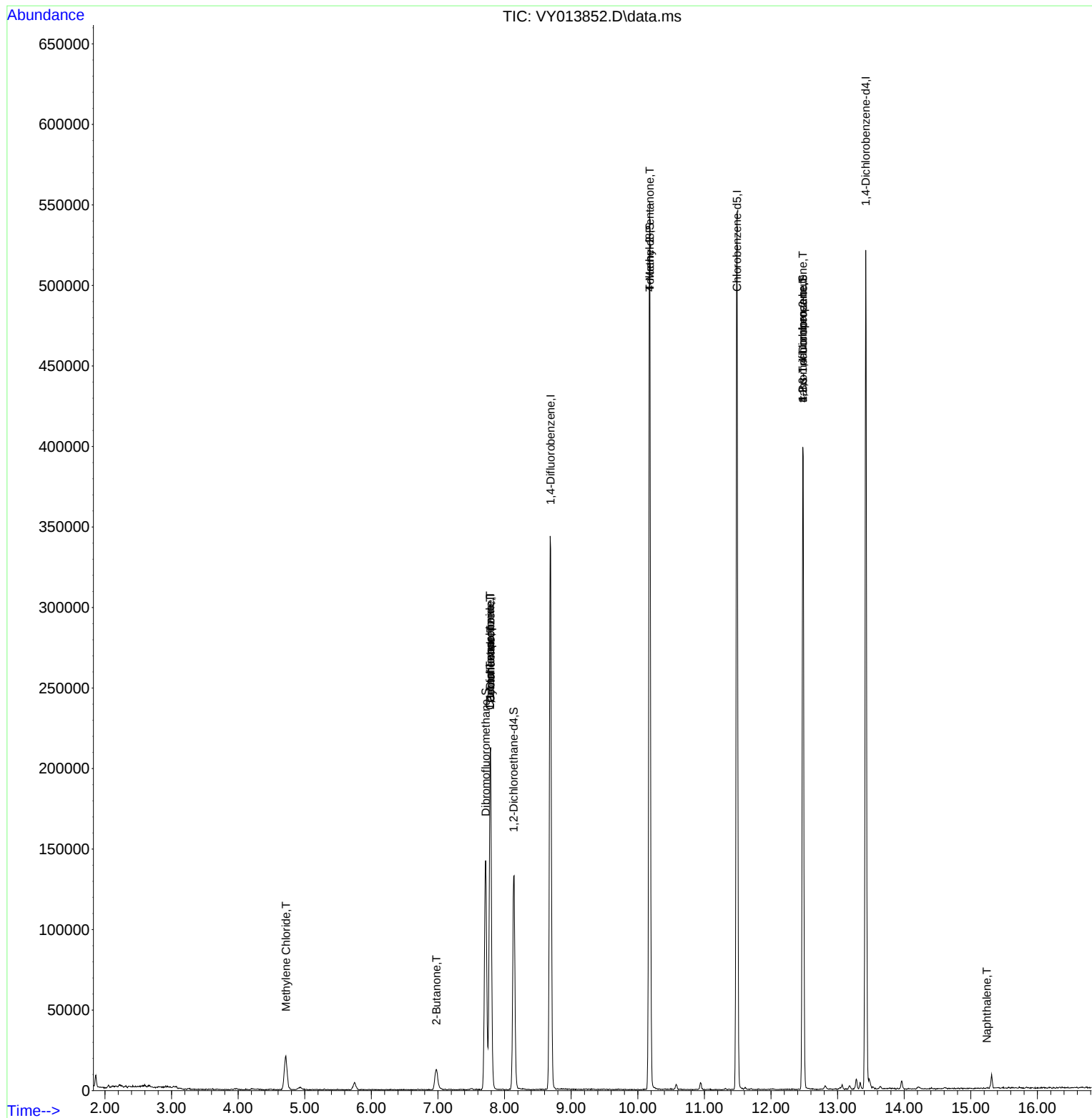
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.789  | 168            | 166367   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114            | 287650   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117            | 285087   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152            | 132347   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65             | 110755   | 57.544     | ug/l   | -0.01    |
| Spiked Amount                 | 50.000 | Range 50 - 163 | Recovery | = 115.080% |        |          |
| 35) Dibromofluoromethane      | 7.716  | 113            | 97176    | 52.311     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 54 - 147 | Recovery | = 104.620% |        |          |
| 50) Toluene-d8                | 10.179 | 98             | 354076   | 50.150     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 134 | Recovery | = 100.300% |        |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95             | 115926   | 49.396     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 30 - 143 | Recovery | = 98.800%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 20) Methylene Chloride        | 4.716  | 84             | 14942    | 5.096      | ug/l   | 98       |
| 25) 2-Butanone                | 6.978  | 43             | 782      | 1.122      | ug/l # | 49       |
| 31) Cyclohexane               | 7.789  | 56             | 3675     | 1.243      | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 7.783  | 75             | 12549    | 4.435      | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.783  | 117            | 16371    | 5.088      | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.179 | 43             | 1944     | 1.160      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75             | 62301    | 39.923     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75             | 62301    | 86.659     | ug/l # | 10       |
| 95) Naphthalene               | 15.239 | 128            | 434      | 4.619      | ug/l # | 68       |
| -----                         |        |                |          |            |        |          |

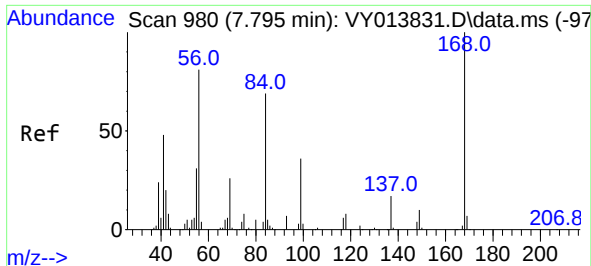
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : 02848-20  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6

Quant Time: May 25 07:09:34 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

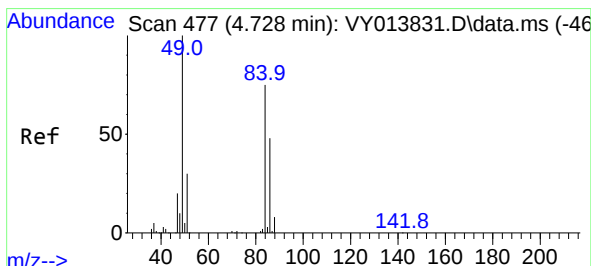
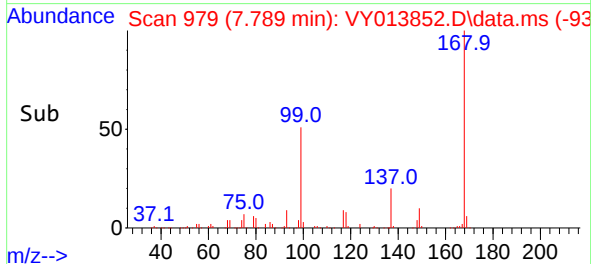
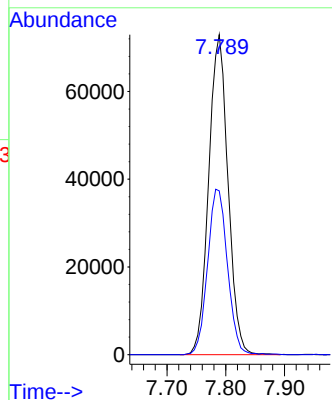
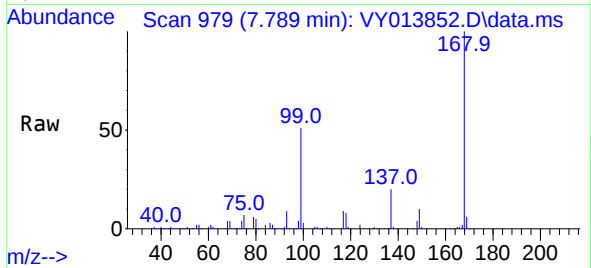




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

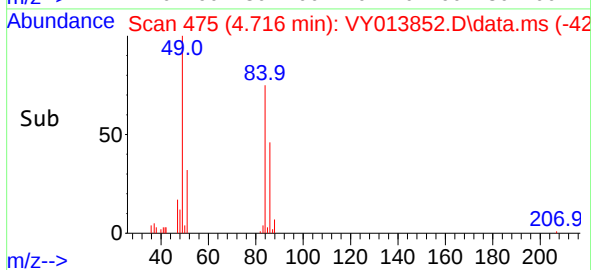
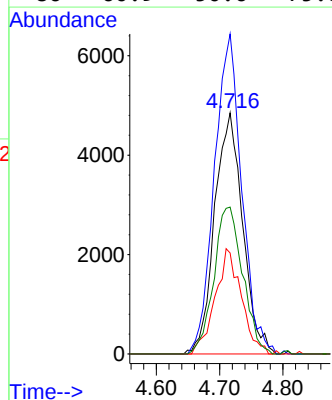
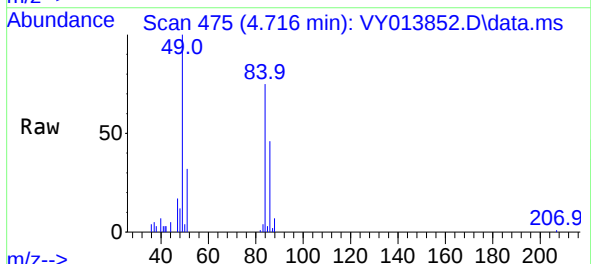
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6

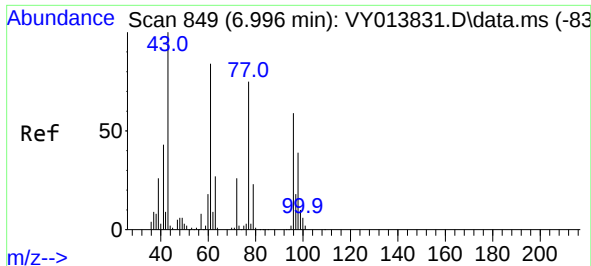
Tgt Ion:168 Resp: 166367  
Ion Ratio Lower Upper  
168 100  
99 51.2 43.4 65.2



#20  
Methylene Chloride  
Concen: 5.096 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. -0.012 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

Tgt Ion: 84 Resp: 14942  
Ion Ratio Lower Upper  
84 100  
49 132.7 106.2 159.2  
51 41.9 31.4 47.0  
86 60.9 50.6 75.8





#25

2-Butanone

Concen: 1.122 ug/l

RT: 6.978 min Scan# 849

Delta R.T. -0.018 min

Lab File: VY013852.D

Acq: 24 May 2023 17:32

Instrument :

MSVOA\_Y

ClientSampleId :

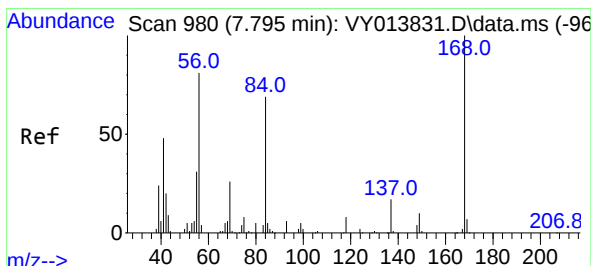
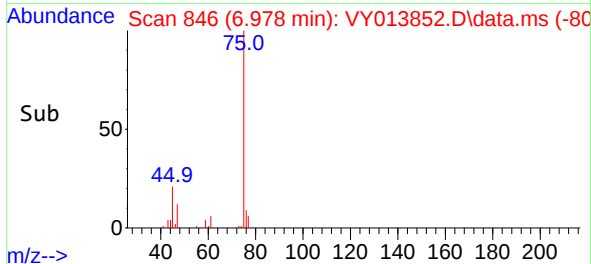
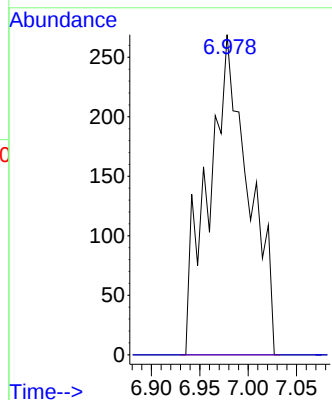
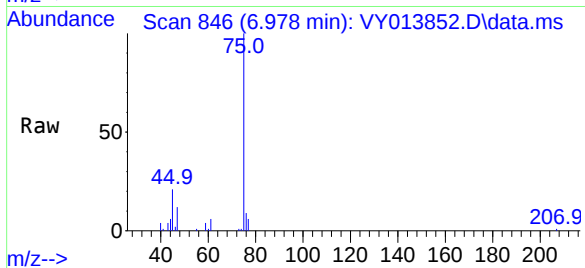
TP6

Tgt Ion: 43 Resp: 782

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#31

Cyclohexane

Concen: 1.243 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.006 min

Lab File: VY013852.D

Acq: 24 May 2023 17:32

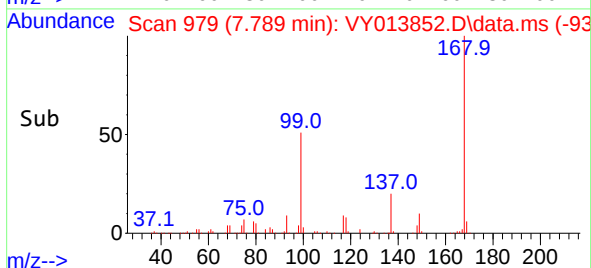
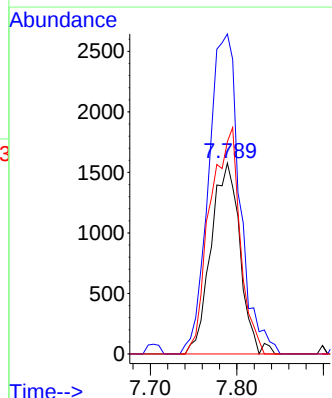
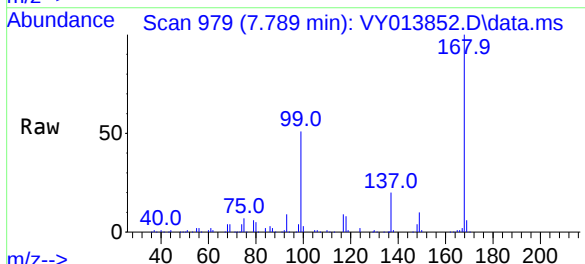
Tgt Ion: 56 Resp: 3675

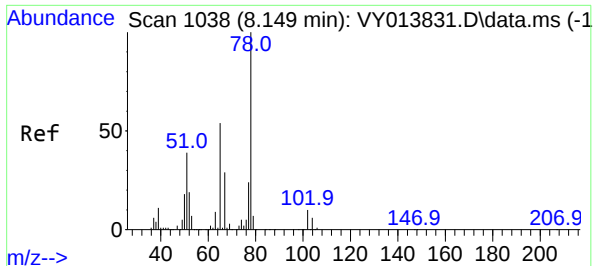
Ion Ratio Lower Upper

56 100

69 167.7 25.8 38.8#

84 111.3 68.2 102.2#





#33

1,2-Dichloroethane-d4

Concen: 57.544 ug/l

RT: 8.137 min Scan# 1107

Delta R.T. -0.012 min

Lab File: VY013852.D

Acq: 24 May 2023 17:32

Instrument :

MSVOA\_Y

ClientSampleId :

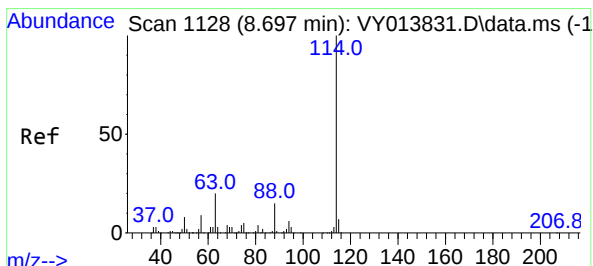
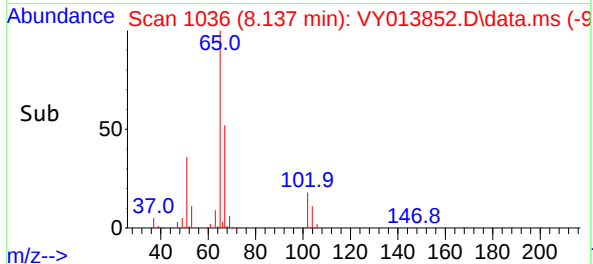
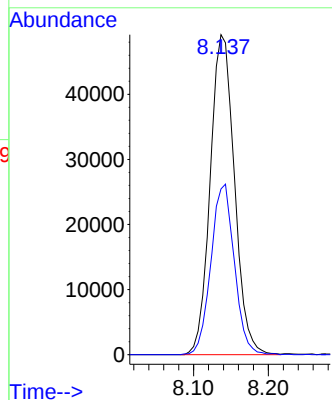
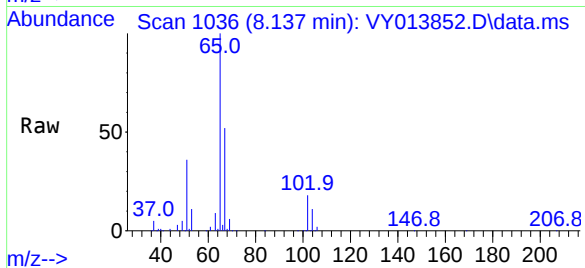
TP6

Tgt Ion: 65 Resp: 110755

Ion Ratio Lower Upper

65 100

67 51.5 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: VY013852.D

Acq: 24 May 2023 17:32

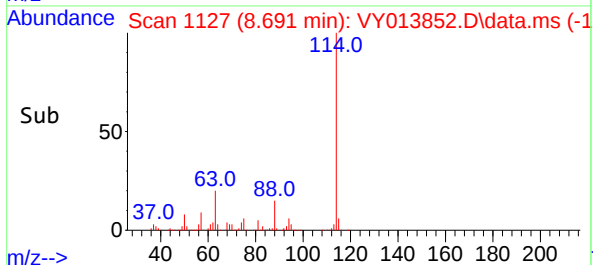
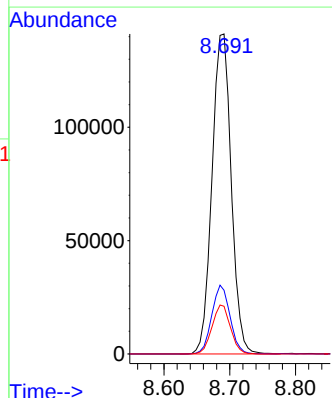
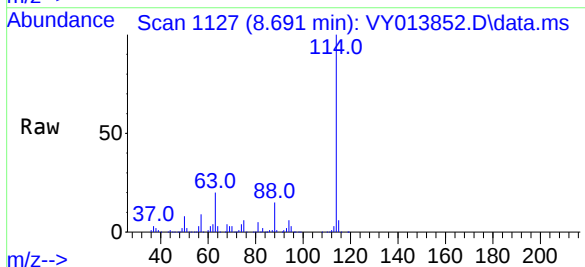
Tgt Ion: 114 Resp: 287650

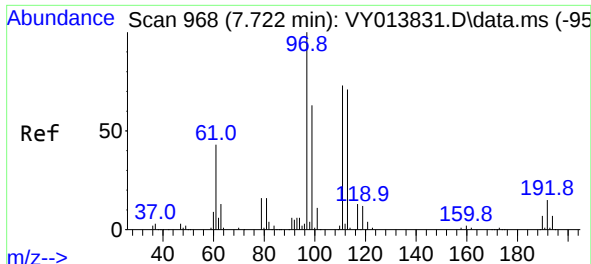
Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.2

88 14.9 0.0 30.0

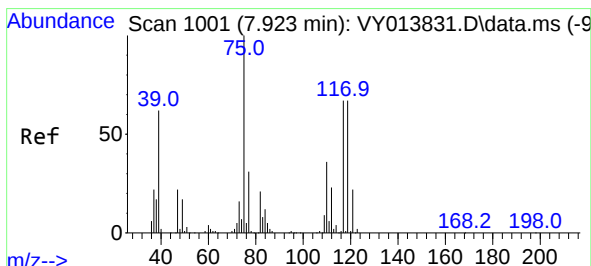
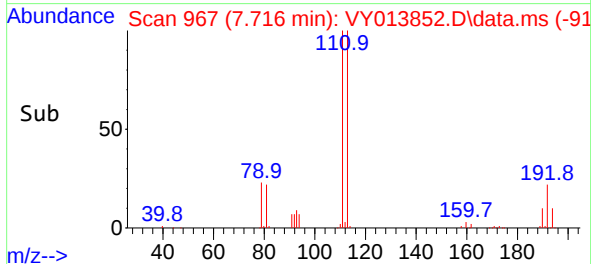
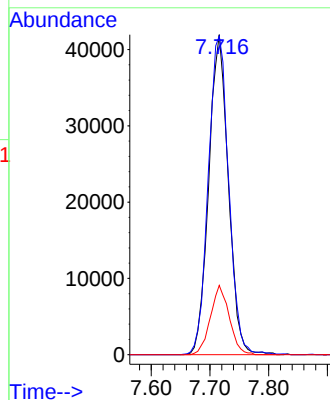
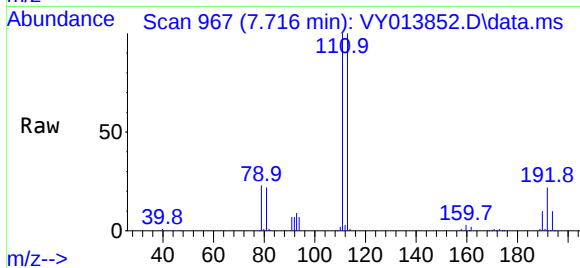




#35  
Dibromofluoromethane  
Concen: 52.311 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

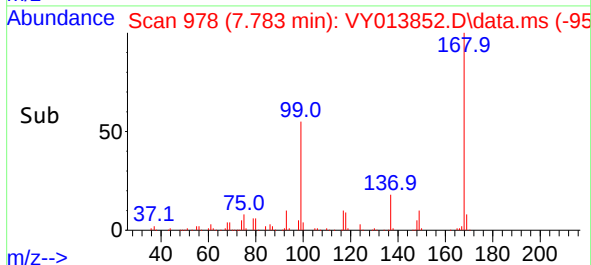
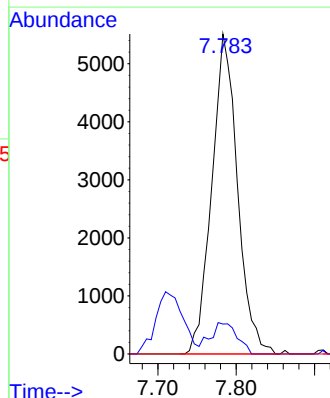
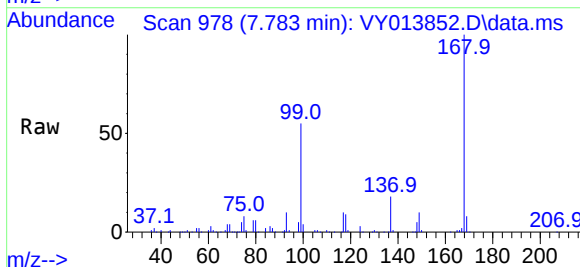
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6

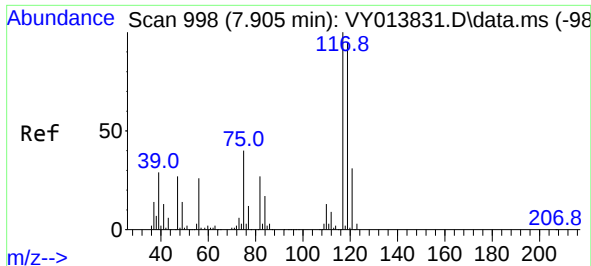
Tgt Ion:113 Resp: 97176  
Ion Ratio Lower Upper  
113 100  
111 103.9 80.4 120.6  
192 20.8 16.6 25.0



#36  
1,1-Dichloropropene  
Concen: 4.435 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

Tgt Ion: 75 Resp: 12549  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.5 52.6#  
77 0.0 24.4 36.6#

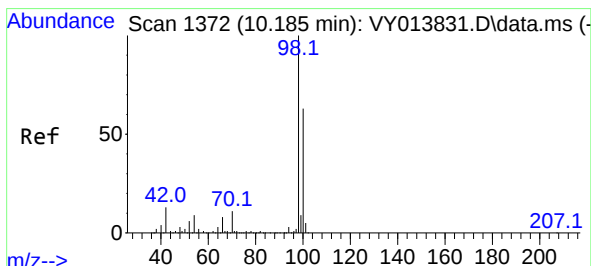
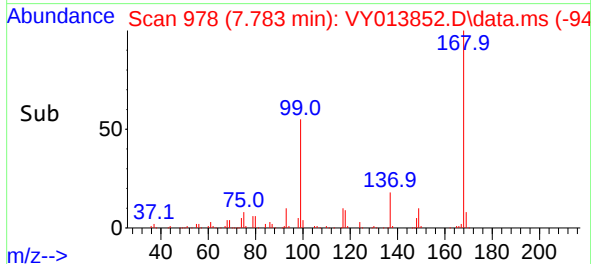
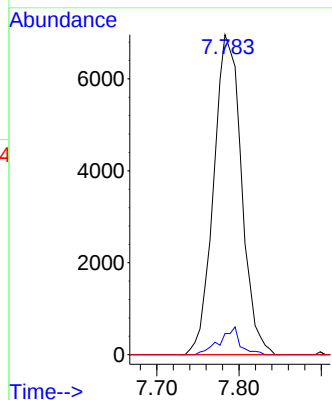
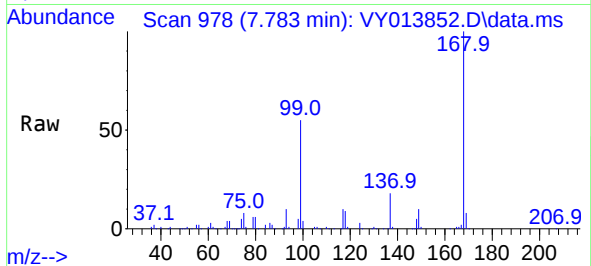




#38  
Carbon Tetrachloride  
Concen: 5.088 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

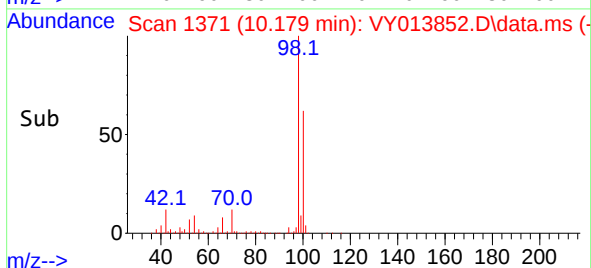
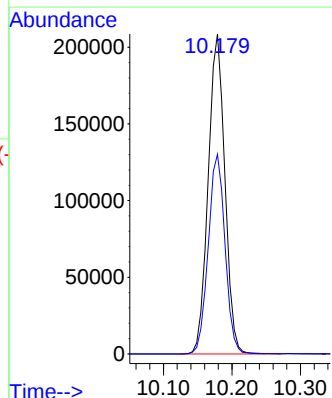
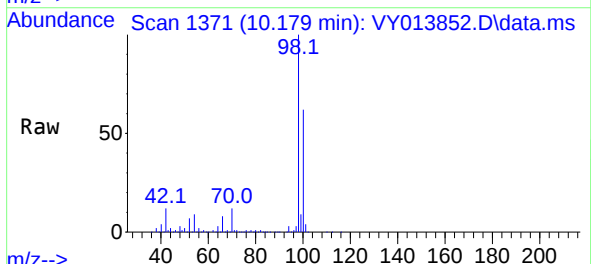
Instrument :  
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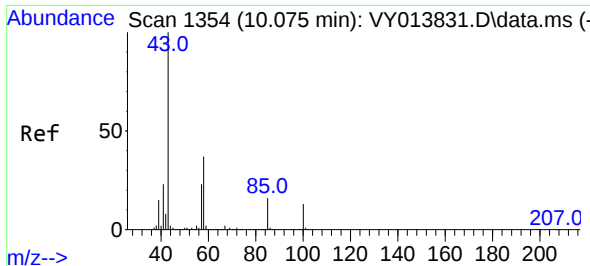
Tgt Ion:117 Resp: 16371  
Ion Ratio Lower Upper  
117 100  
119 6.6 75.6 113.4#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 50.150 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.006 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

Tgt Ion: 98 Resp: 354076  
Ion Ratio Lower Upper  
98 100  
100 62.7 50.8 76.2

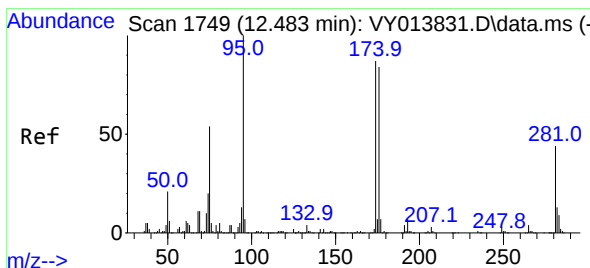
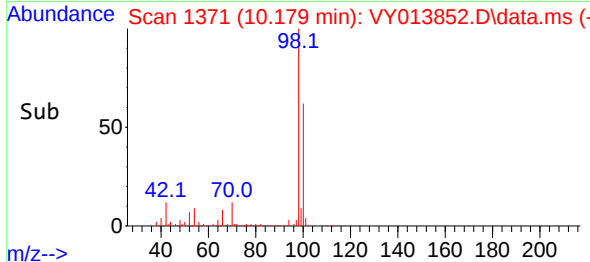
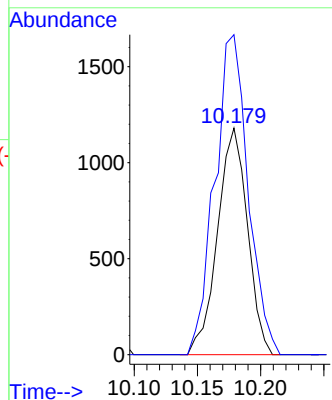
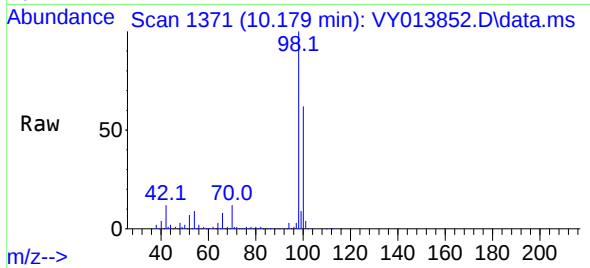




#51  
4-Methyl-2-Pentanone  
Concen: 1.160 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

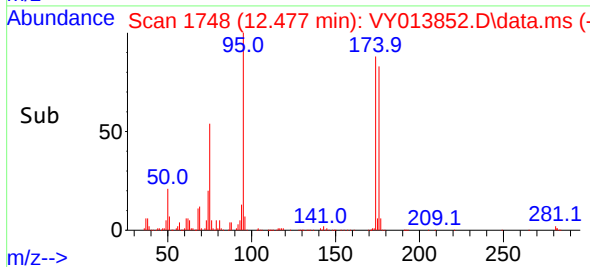
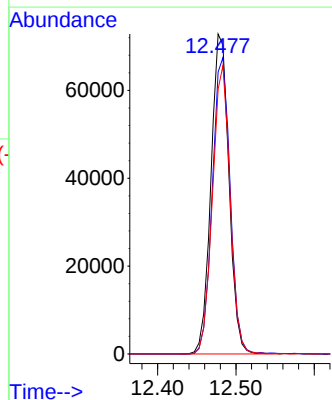
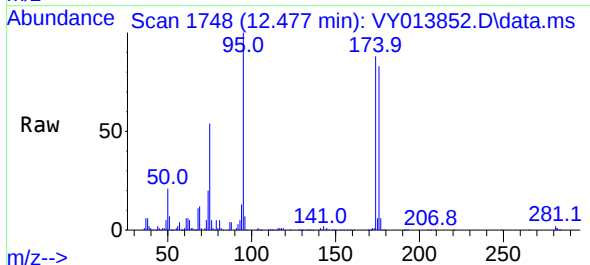
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6

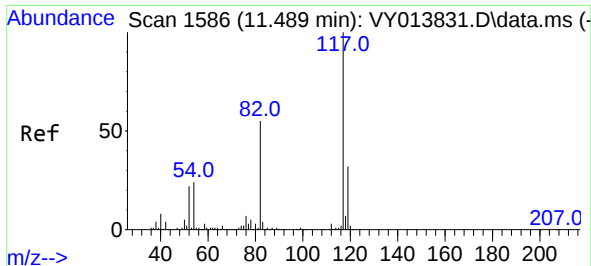
Tgt Ion: 43 Resp: 1944  
Ion Ratio Lower Upper  
43 100  
58 157.1 29.1 43.7#



#62  
4-Bromofluorobenzene  
Concen: 49.396 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

Tgt Ion: 95 Resp: 115926  
Ion Ratio Lower Upper  
95 100  
174 92.5 0.0 176.0  
176 88.3 0.0 170.2

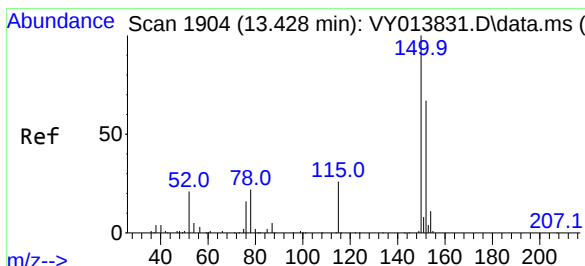
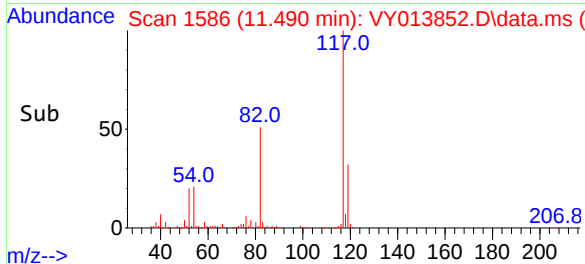
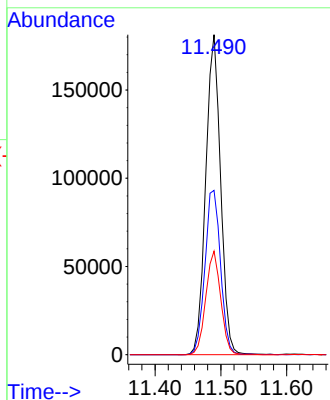
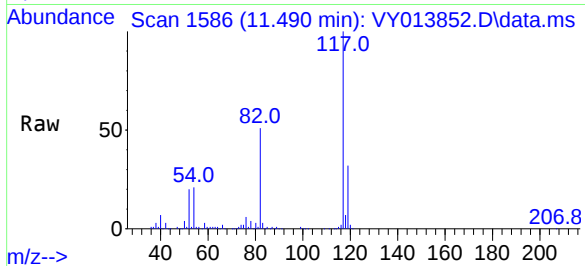




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

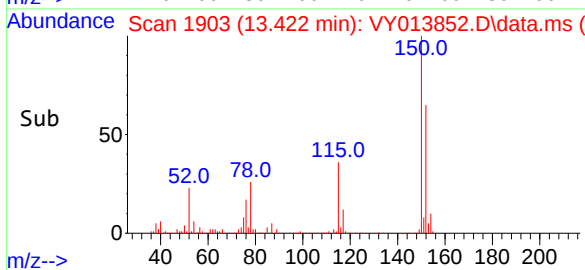
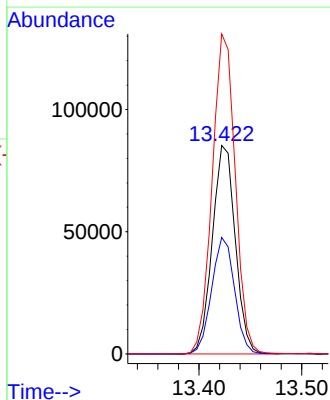
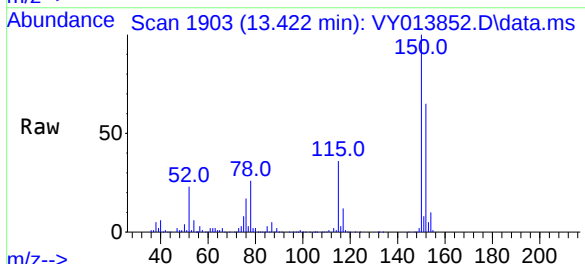
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6

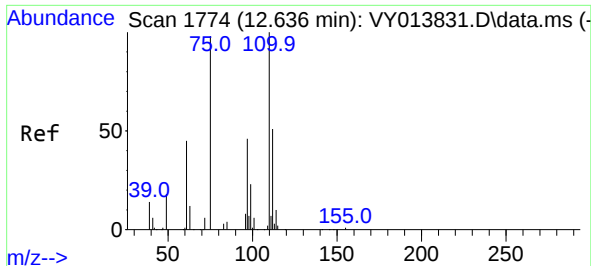
Tgt Ion:117 Resp: 285087  
Ion Ratio Lower Upper  
117 100  
82 51.3 44.2 66.4  
119 32.3 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

Tgt Ion:152 Resp: 132347  
Ion Ratio Lower Upper  
152 100  
115 55.8 28.8 86.5  
150 154.3 0.0 353.4

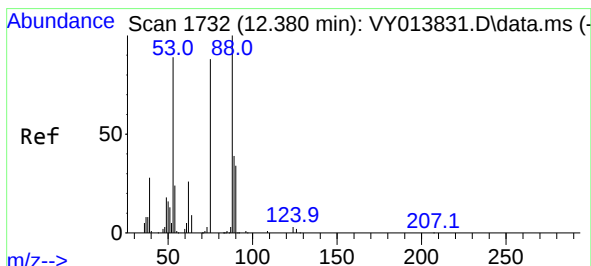
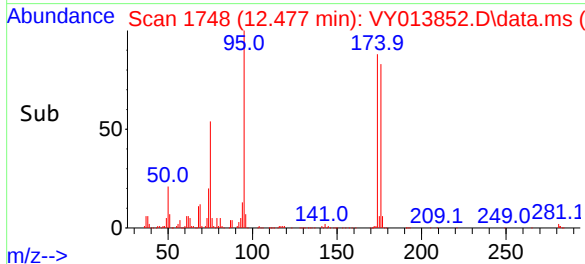
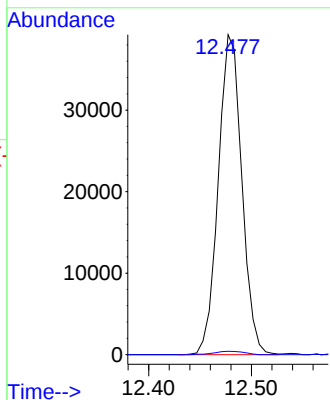
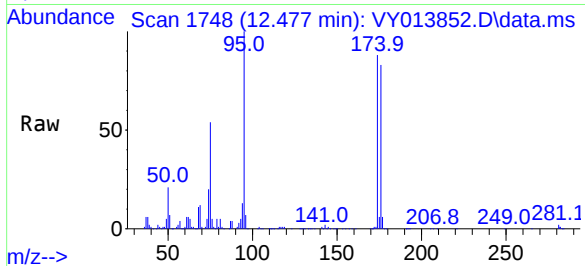




#76  
1,2,3-Trichloropropane  
Concen: 39.923 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.158 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

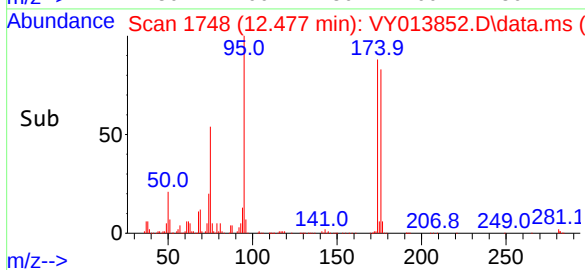
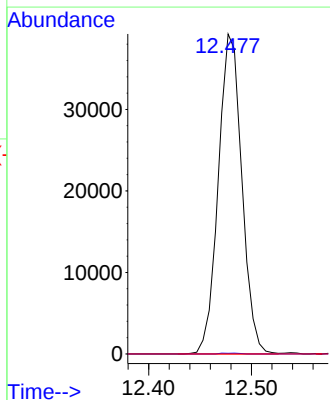
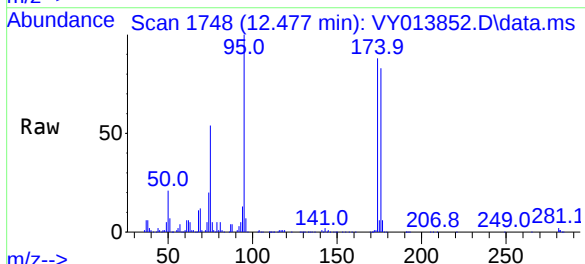
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6

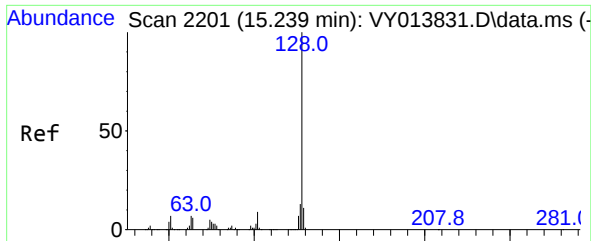
Tgt Ion: 75 Resp: 62301  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 86.659 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.098 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

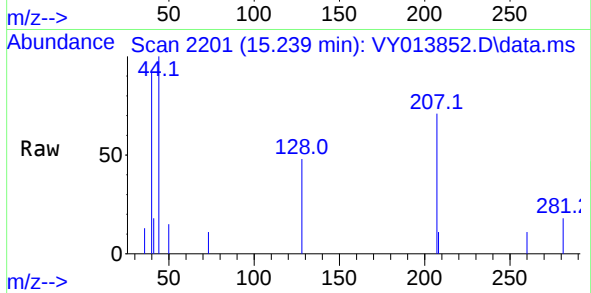
Tgt Ion: 75 Resp: 62301  
Ion Ratio Lower Upper  
75 100  
53 0.2 79.7 119.5#  
89 0.0 36.4 54.6#





#95  
Naphthalene  
Concen: 4.619 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY013852.D  
Acq: 24 May 2023 17:32

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP6



Tgt Ion:128 Resp: 434  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 9.0 13.4#

