

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112122\  
 Data File : VY011529.D  
 Acq On : 21 Nov 2022 17:12  
 Operator : KP/MD  
 Sample : N5678-09RE  
 Misc : 7.67g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 22 01:46:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 2022  
 Response via : Initial Calibration

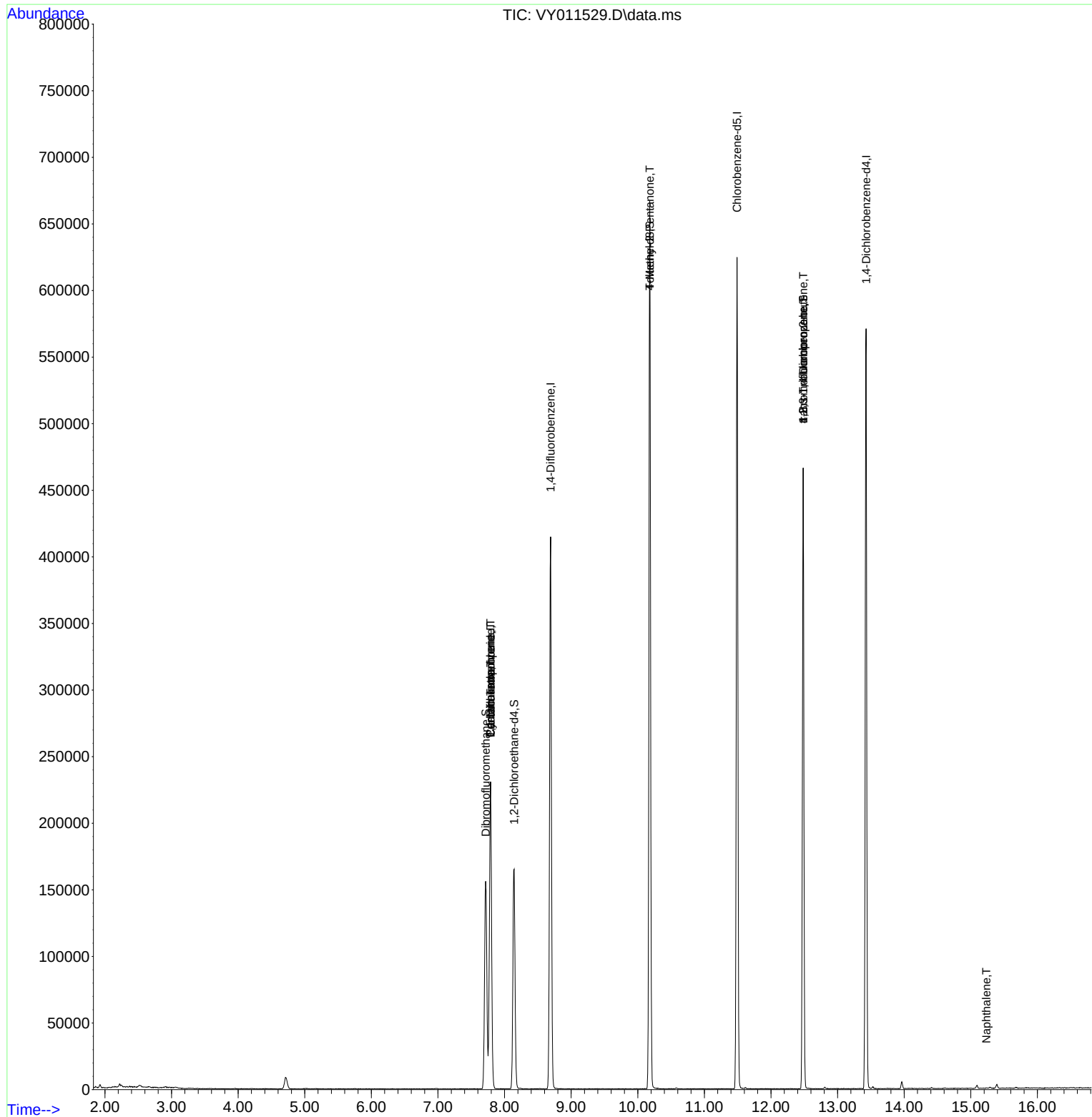
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 170761   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 338020   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 325106   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 144720   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 129502   | 74.688    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 149.380% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 111016   | 53.352    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 106.700% |          |
| 50) Toluene-d8                | 10.179 | 98    | 419097   | 55.425    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 110.840% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 136922   | 48.975    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 97.960%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.107  | 50    | 155      | Below Cal | #          | 44       |
| 5) Bromomethane               | 2.662  | 94    | 227      | Below Cal | #          | 71       |
| 11) Tert butyl alcohol        | 4.942  | 59    | 20       | Below Cal | #          | 77       |
| 18) Methyl Acetate            | 4.473  | 43    | 52       | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.716  | 84    | 6110     | Below Cal | #          | 82       |
| 31) Cyclohexane               | 7.789  | 56    | 3871     | 1.347     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 13532    | 4.160     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 17750    | 4.878     | ug/l #     | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.179 | 43    | 1950     | 1.050     | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 73255    | 47.002    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 73255    | 102.951   | ug/l #     | 7        |
| 95) Naphthalene               | 15.233 | 128   | 217      | 4.059     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

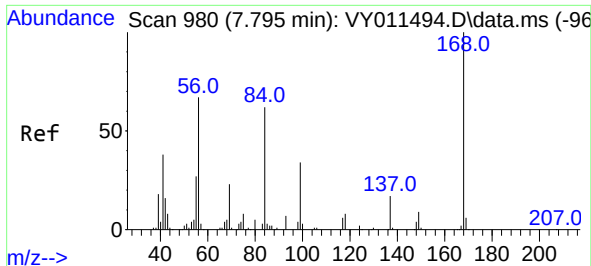
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N5678-09RE  
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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Nov 22 01:46:45 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 19 22:37:14 2022  
Response via : Initial Calibration

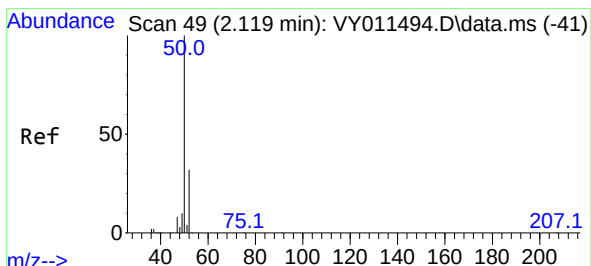
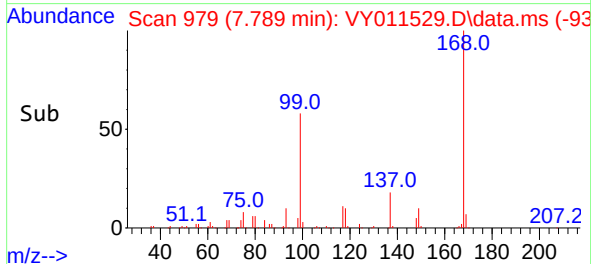
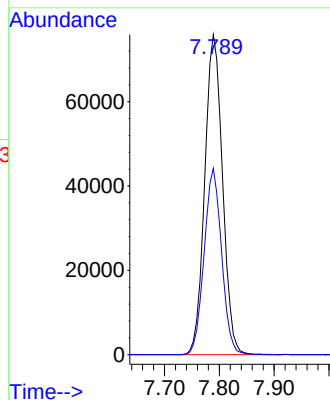
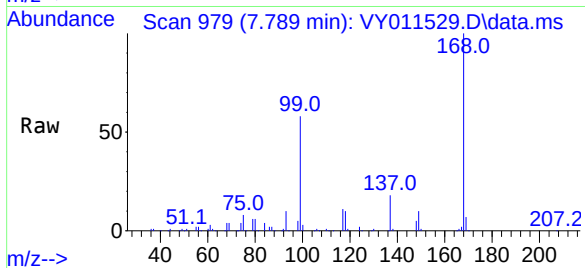




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

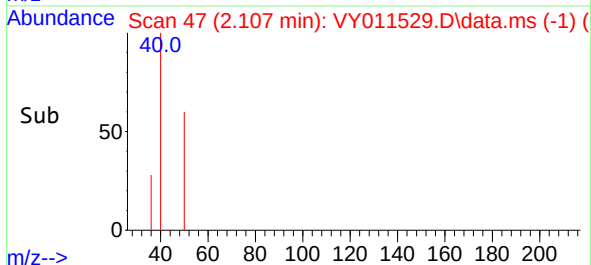
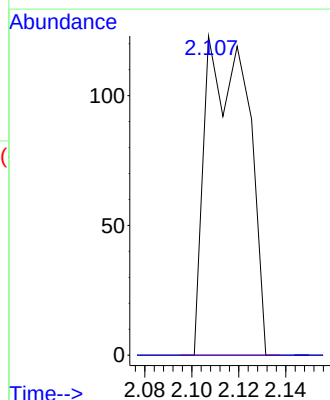
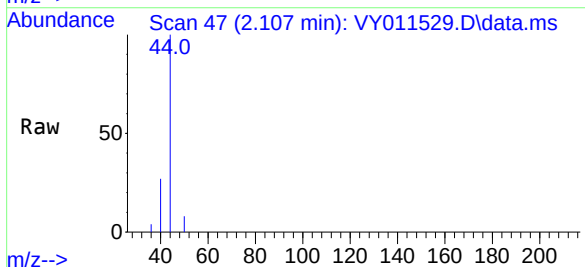
Instrument :  
MSVOA\_Y  
ClientSampleId :

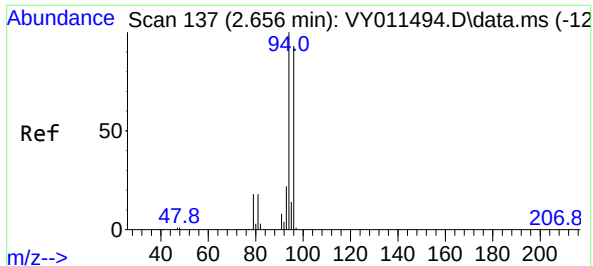
Tgt Ion:168 Resp: 170761  
Ion Ratio Lower Upper  
168 100  
99 58.2 46.9 70.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.107 min Scan# 47  
Delta R.T. -0.012 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Tgt Ion: 50 Resp: 155  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.6 37.0#

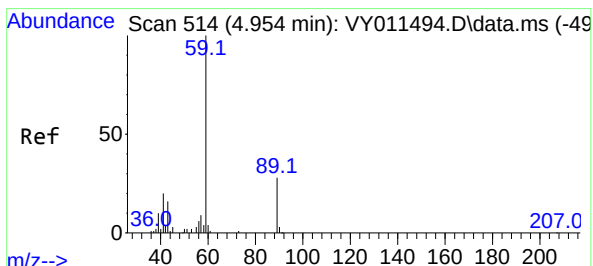
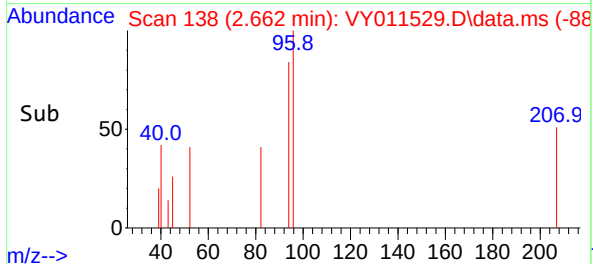
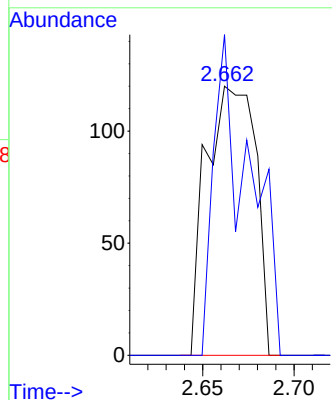
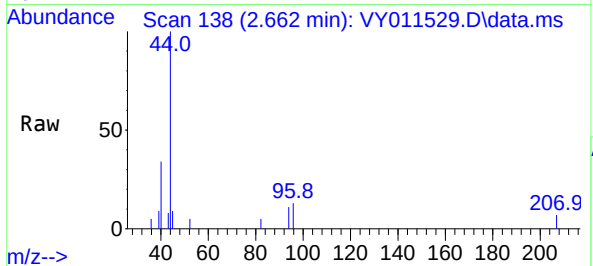




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

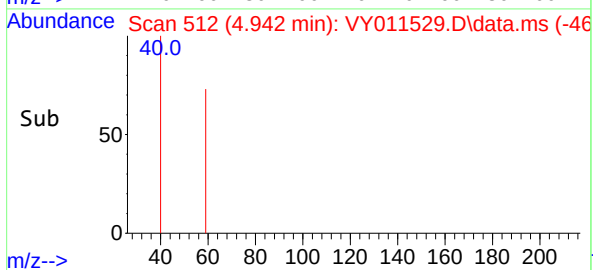
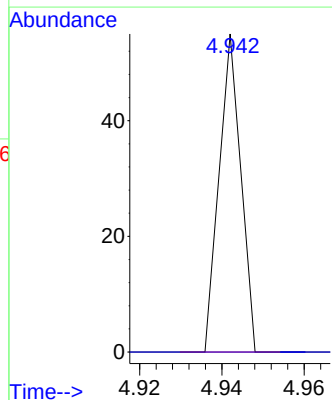
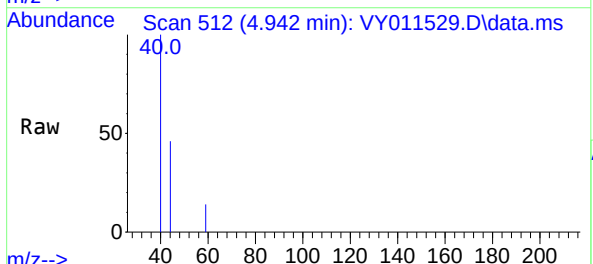
Instrument :  
MSVOA\_Y  
ClientSampleId :

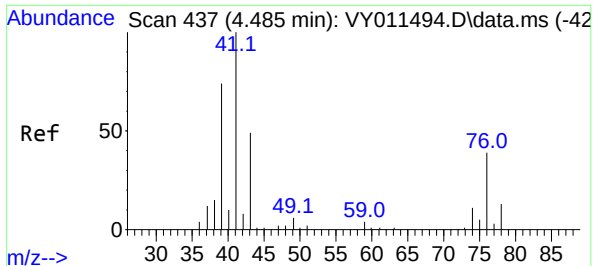
Tgt Ion: 94 Resp: 227  
Ion Ratio Lower Upper  
94 100  
96 119.2 73.5 110.3#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.942 min Scan# 512  
Delta R.T. -0.012 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Tgt Ion: 59 Resp: 20  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#

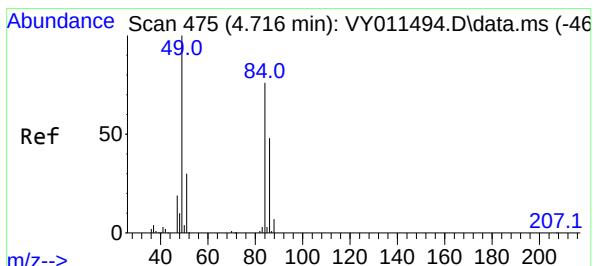
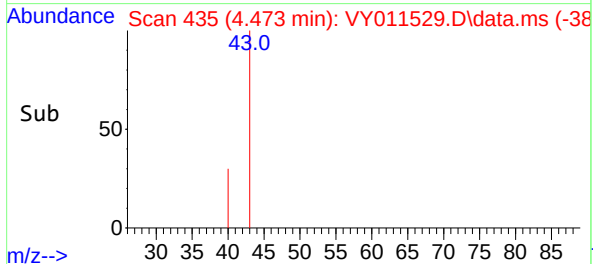
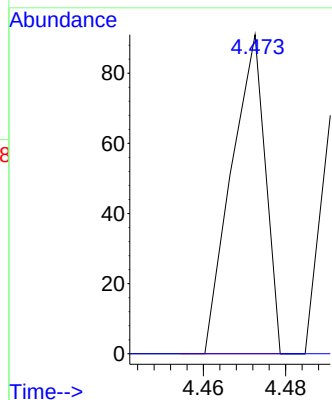
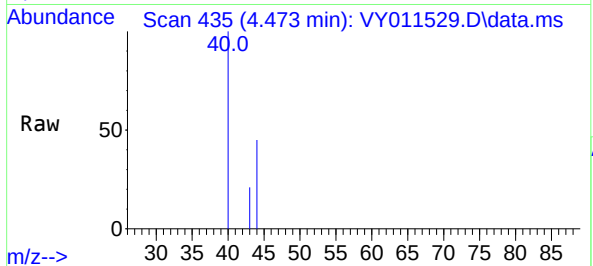




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.473 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

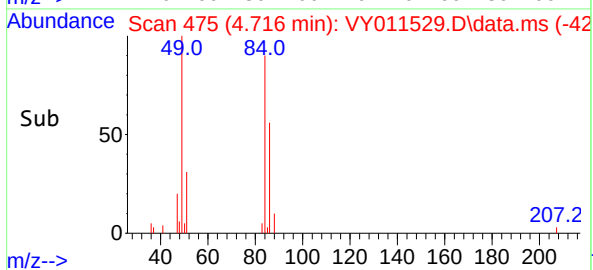
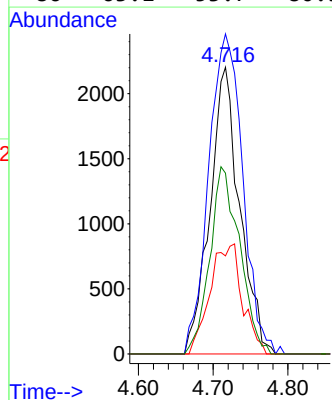
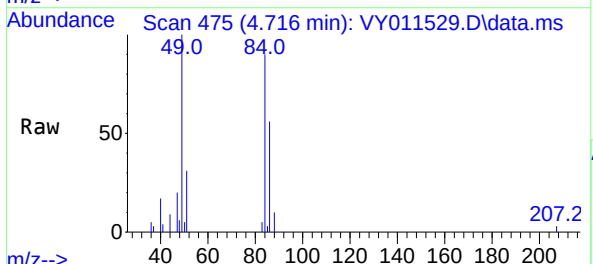
Instrument :  
MSVOA\_Y  
ClientSampleId :

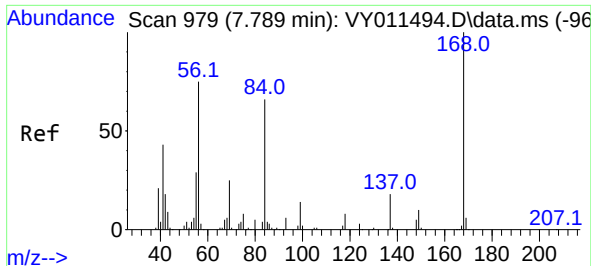
Tgt Ion: 43 Resp: 52  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 24.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 475  
Delta R.T. 0.000 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

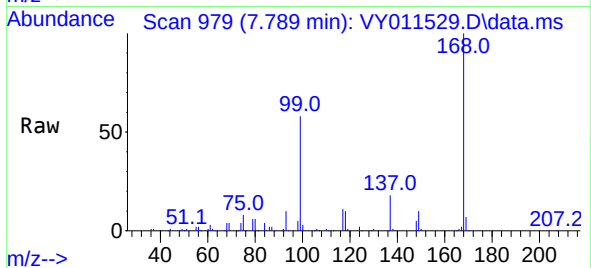
Tgt Ion: 84 Resp: 6110  
Ion Ratio Lower Upper  
84 100  
49 111.6 114.4 171.6#  
51 34.2 35.3 52.9#  
86 63.1 53.7 80.5



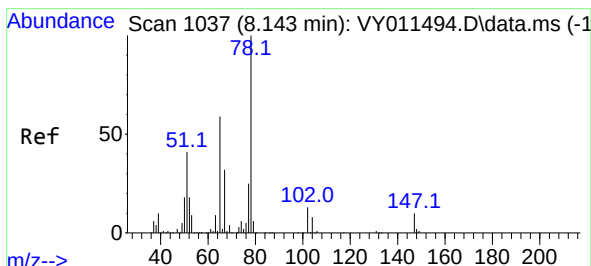
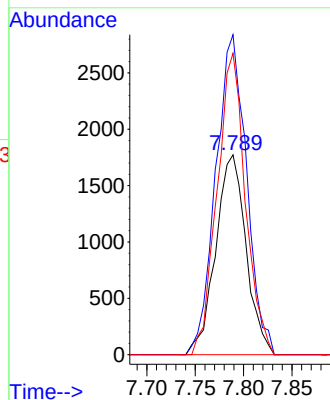
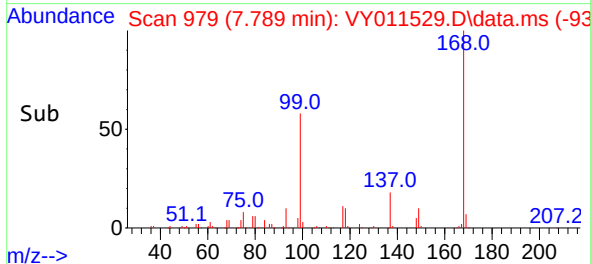


#31  
Cyclohexane  
Concen: 1.347 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Instrument :  
MSVOA\_Y  
ClientSampleId :

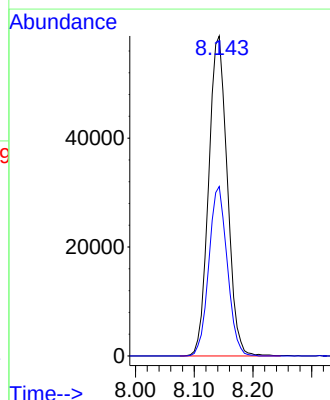
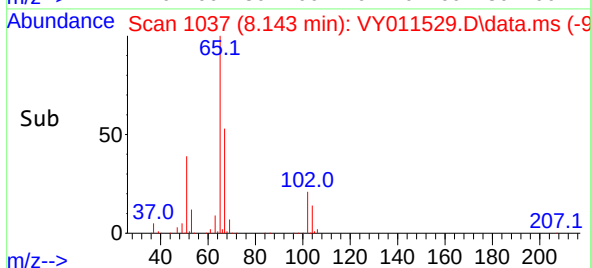
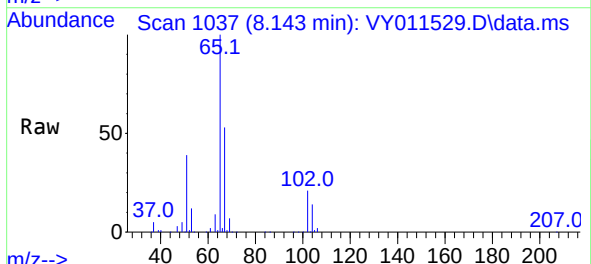


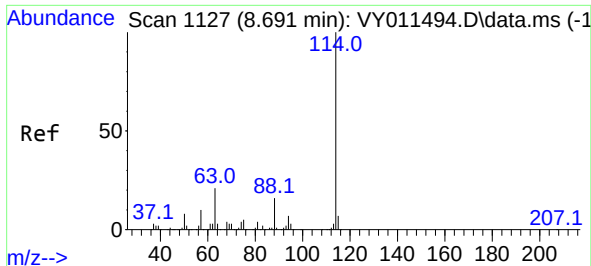
Tgt Ion: 56 Resp: 3871  
Ion Ratio Lower Upper  
56 100  
69 160.1 26.7 40.1#  
84 150.9 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 74.688 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Tgt Ion: 65 Resp: 129502  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY011529.D

Acq: 21 Nov 2022 17:12

Instrument :

MSVOA\_Y

ClientSampleId :

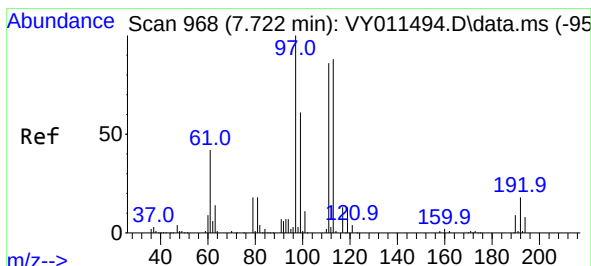
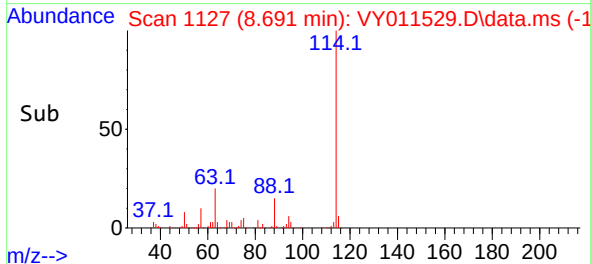
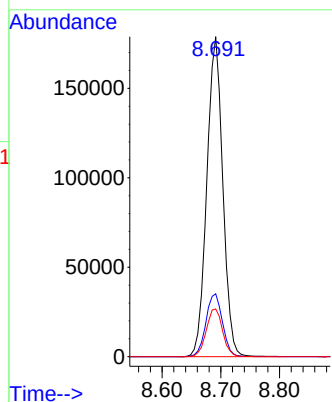
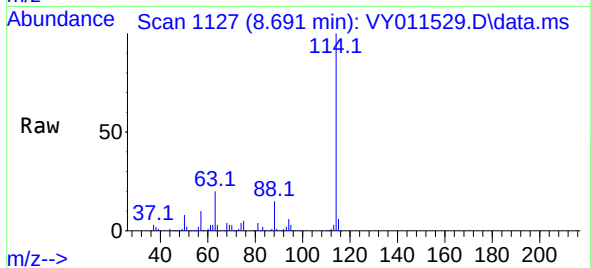
Tgt Ion:114 Resp: 338020

Ion Ratio Lower Upper

114 100

63 19.6 0.0 43.2

88 14.9 0.0 31.8



#35

Dibromofluoromethane

Concen: 53.352 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.006 min

Lab File: VY011529.D

Acq: 21 Nov 2022 17:12

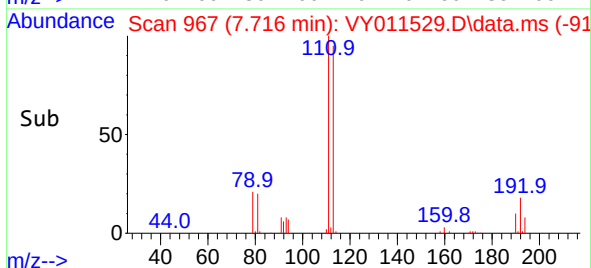
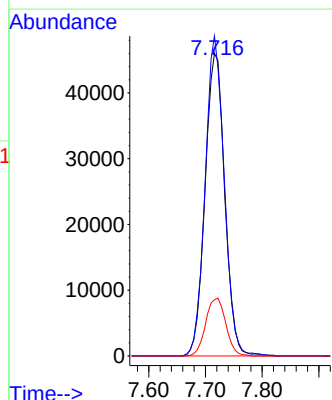
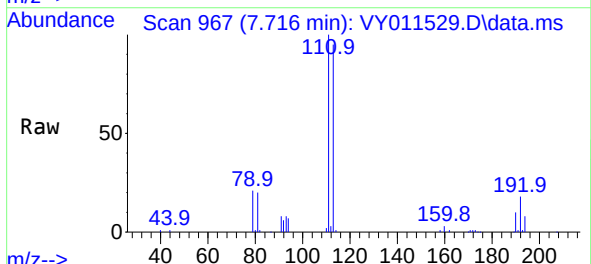
Tgt Ion:113 Resp: 111016

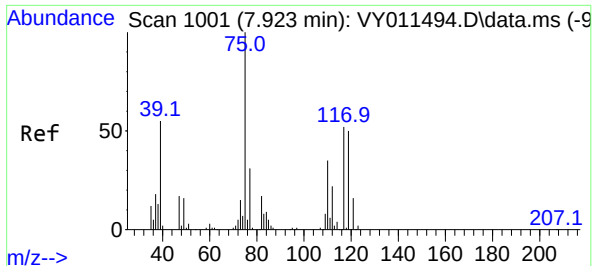
Ion Ratio Lower Upper

113 100

111 102.5 82.6 124.0

192 19.5 17.6 26.4





#36

1,1-Dichloropropene

Concen: 4.160 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

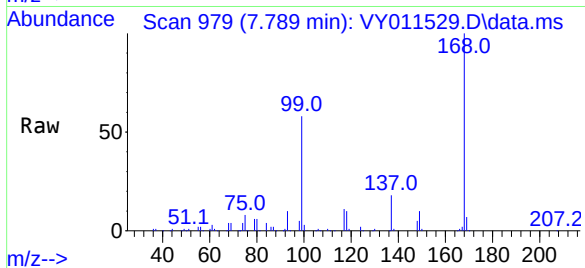
Lab File: VY011529.D

Acq: 21 Nov 2022 17:12

Instrument :

MSVOA\_Y

ClientSampleId :



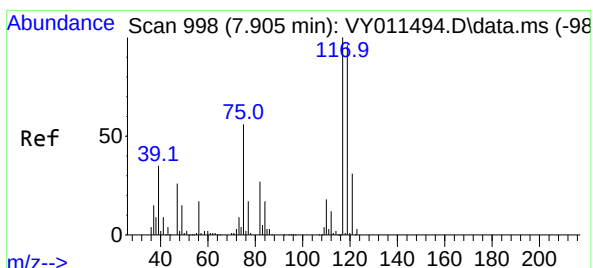
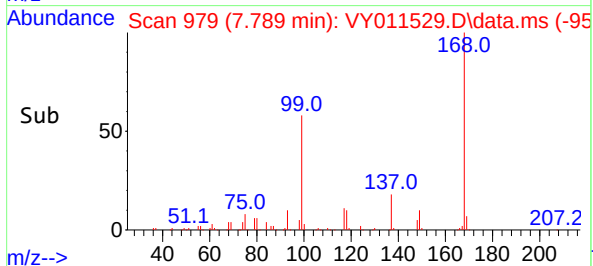
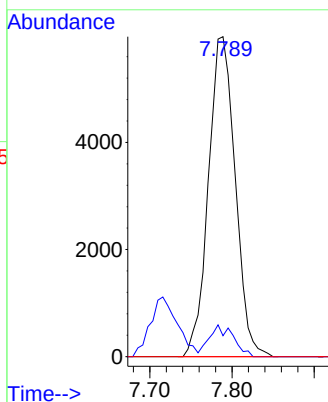
Tgt Ion: 75 Resp: 13532

Ion Ratio Lower Upper

75 100

110 8.9 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.878 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY011529.D

Acq: 21 Nov 2022 17:12

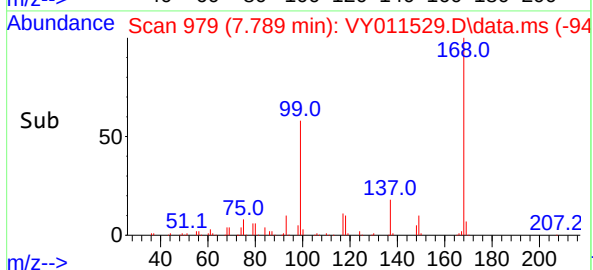
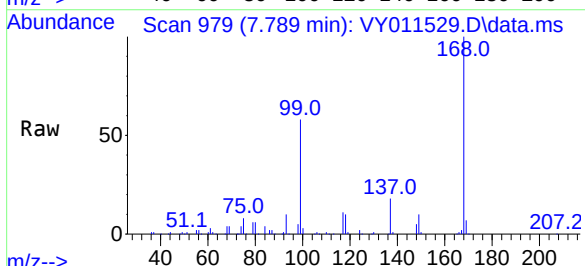
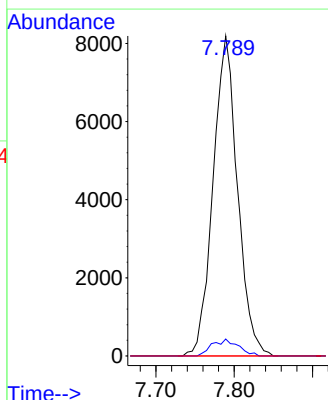
Tgt Ion: 117 Resp: 17750

Ion Ratio Lower Upper

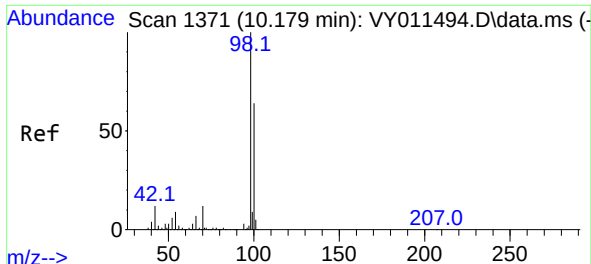
117 100

119 5.3 77.9 116.9#

121 0.0 24.8 37.2#



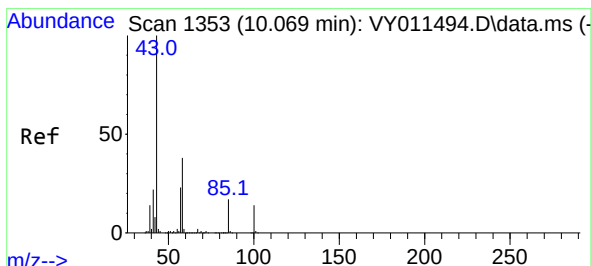
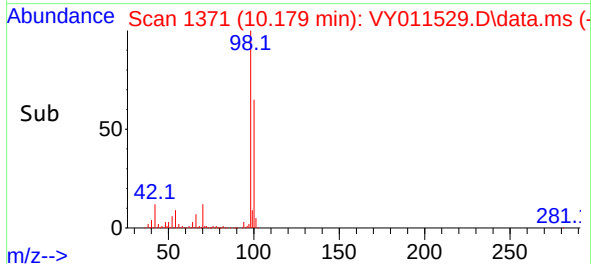
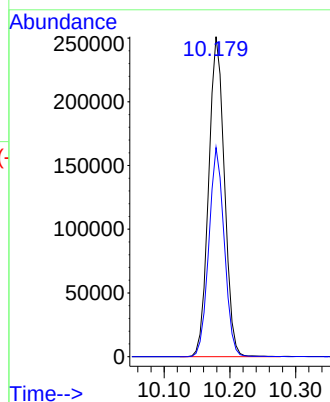
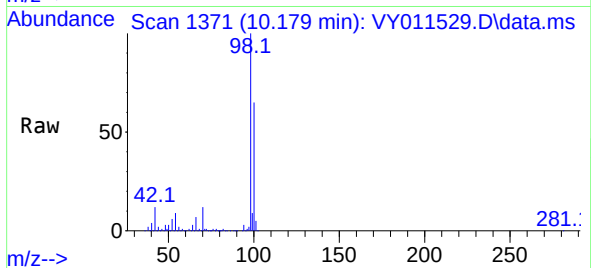




#50  
Toluene-d8  
Concen: 55.425 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

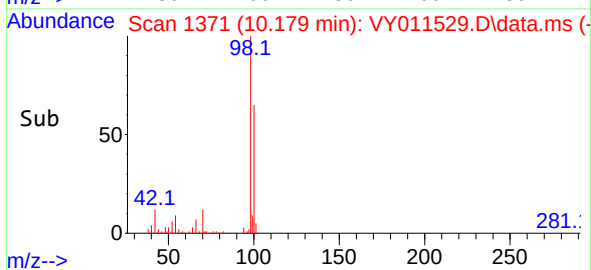
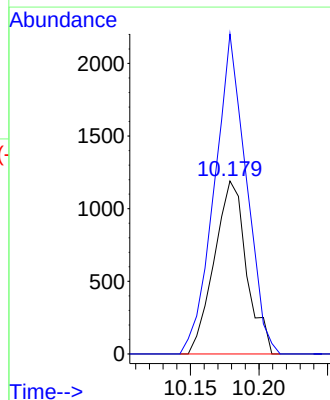
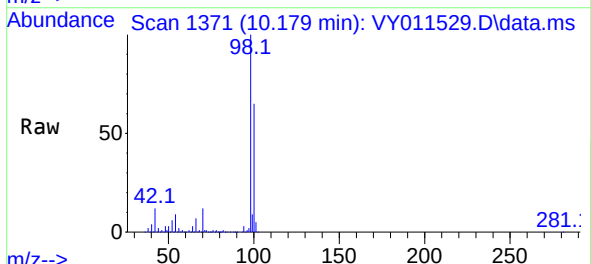
Instrument :  
MSVOA\_Y  
ClientSampleId :

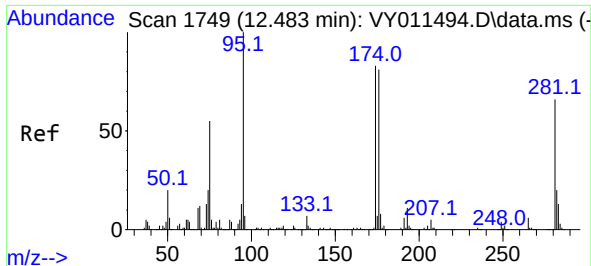
Tgt Ion: 98 Resp: 419097  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.050 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.110 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Tgt Ion: 43 Resp: 1950  
Ion Ratio Lower Upper  
43 100  
58 182.7 28.1 42.1#

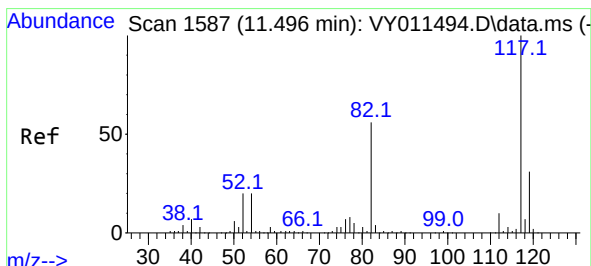
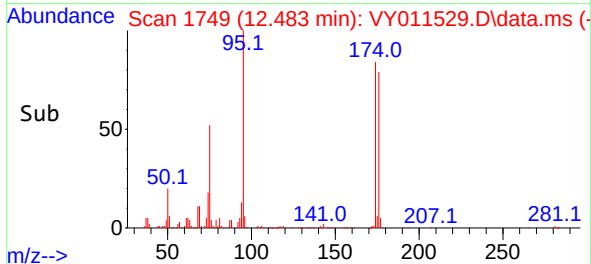
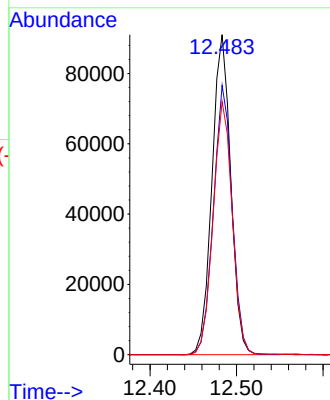
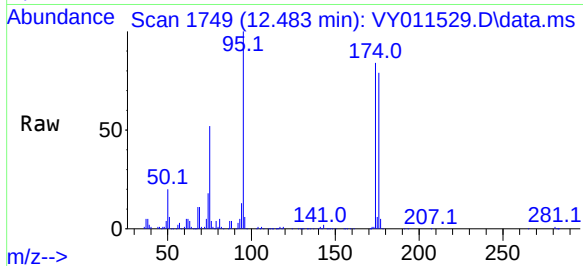




#62  
4-Bromofluorobenzene  
Concen: 48.975 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

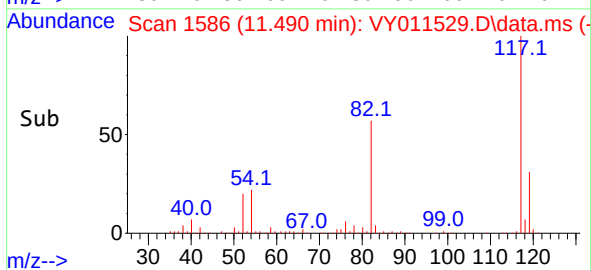
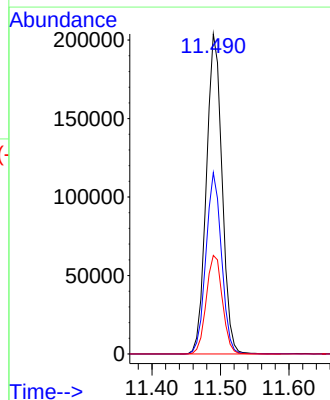
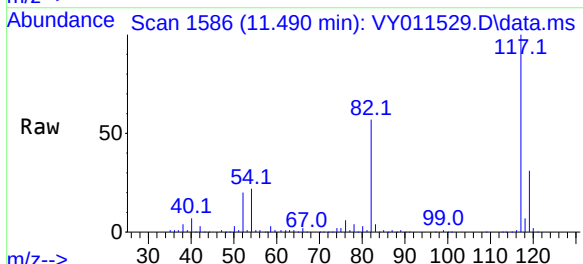
Instrument :  
MSVOA\_Y  
ClientSampleId :

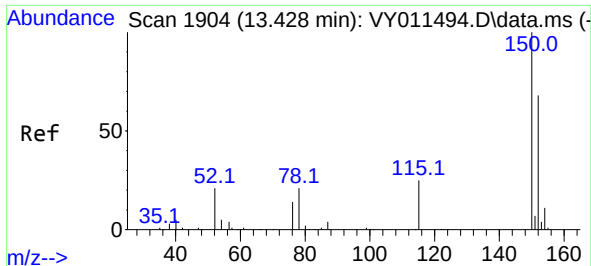
Tgt Ion: 95 Resp: 136922  
Ion Ratio Lower Upper  
95 100  
174 84.1 0.0 177.0  
176 80.6 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

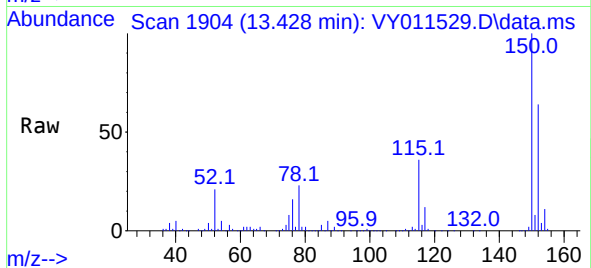
Tgt Ion:117 Resp: 325106  
Ion Ratio Lower Upper  
117 100  
82 56.7 43.0 64.4  
119 30.8 25.4 38.0



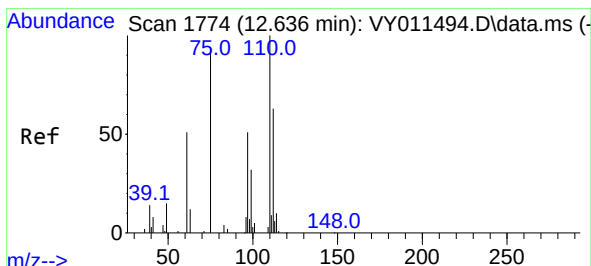
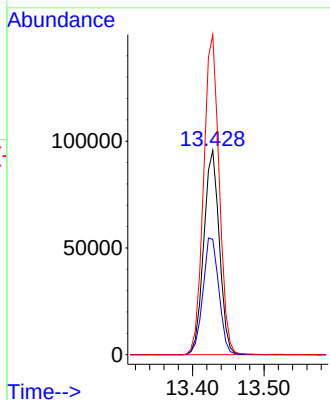
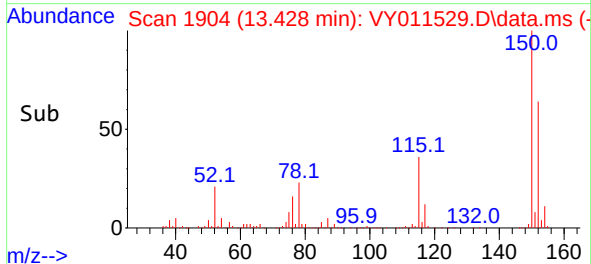


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Instrument :  
MSVOA\_Y  
ClientSampleId :

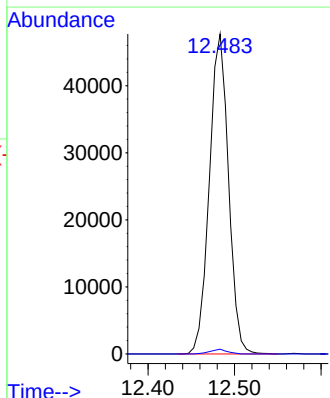
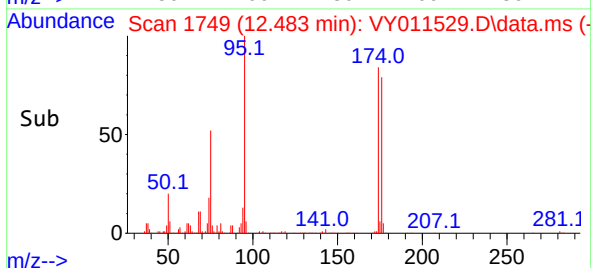
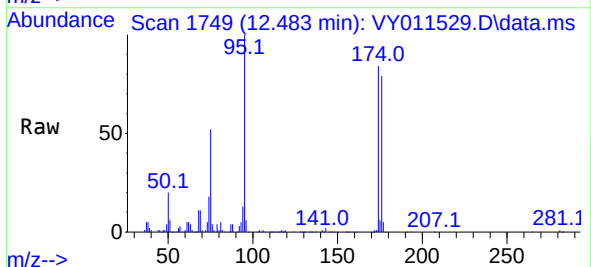


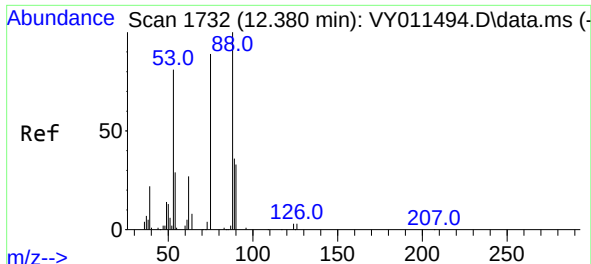
Tgt Ion:152 Resp: 144720  
Ion Ratio Lower Upper  
152 100  
115 58.6 28.2 84.7  
150 157.0 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 47.002 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.153 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Tgt Ion: 75 Resp: 73255  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#

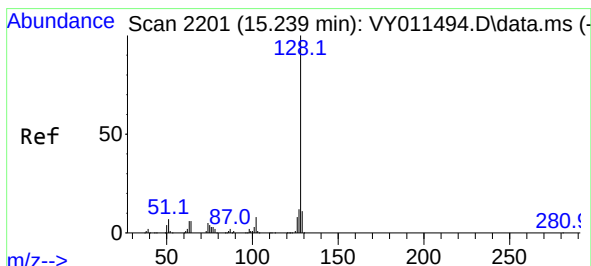
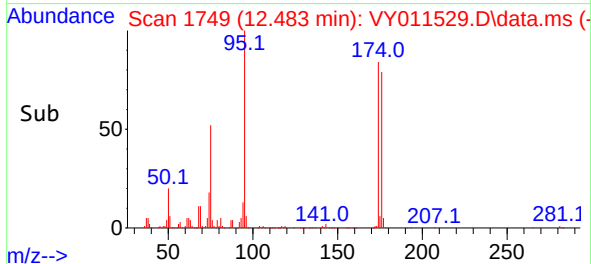
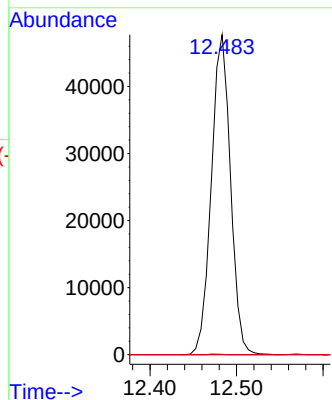
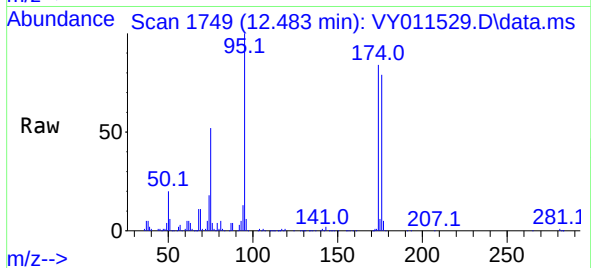




#81  
trans-1,4-Dichloro-2-butene  
Concen: 102.951 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.103 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 73255  
Ion Ratio Lower Upper  
75 100  
53 0.1 85.3 127.9#  
89 0.0 37.0 55.4#



#95  
Naphthalene  
Concen: 4.059 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.006 min  
Lab File: VY011529.D  
Acq: 21 Nov 2022 17:12

Tgt Ion:128 Resp: 217  
Ion Ratio Lower Upper  
128 100  
127 0.0 11.0 16.4#  
129 0.0 8.4 12.6#

