

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041923\  
 Data File : VY013355.D  
 Acq On : 19 Apr 2023 19:02  
 Operator : KP/MD  
 Sample : 02366-05  
 Misc : 4.35g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 20 06:57:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 05:55:16 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 207127   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 331483   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 292942   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 123603   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.143  | 65    | 126523   | 50.829   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 101.660% |
| 35) Dibromofluoromethane    | 7.722  | 113   | 113983   | 53.114   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 106.220% |
| 50) Toluene-d8              | 10.179 | 98    | 398910   | 49.940   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 99.880%  |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 124428   | 47.943   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 95.880%  |

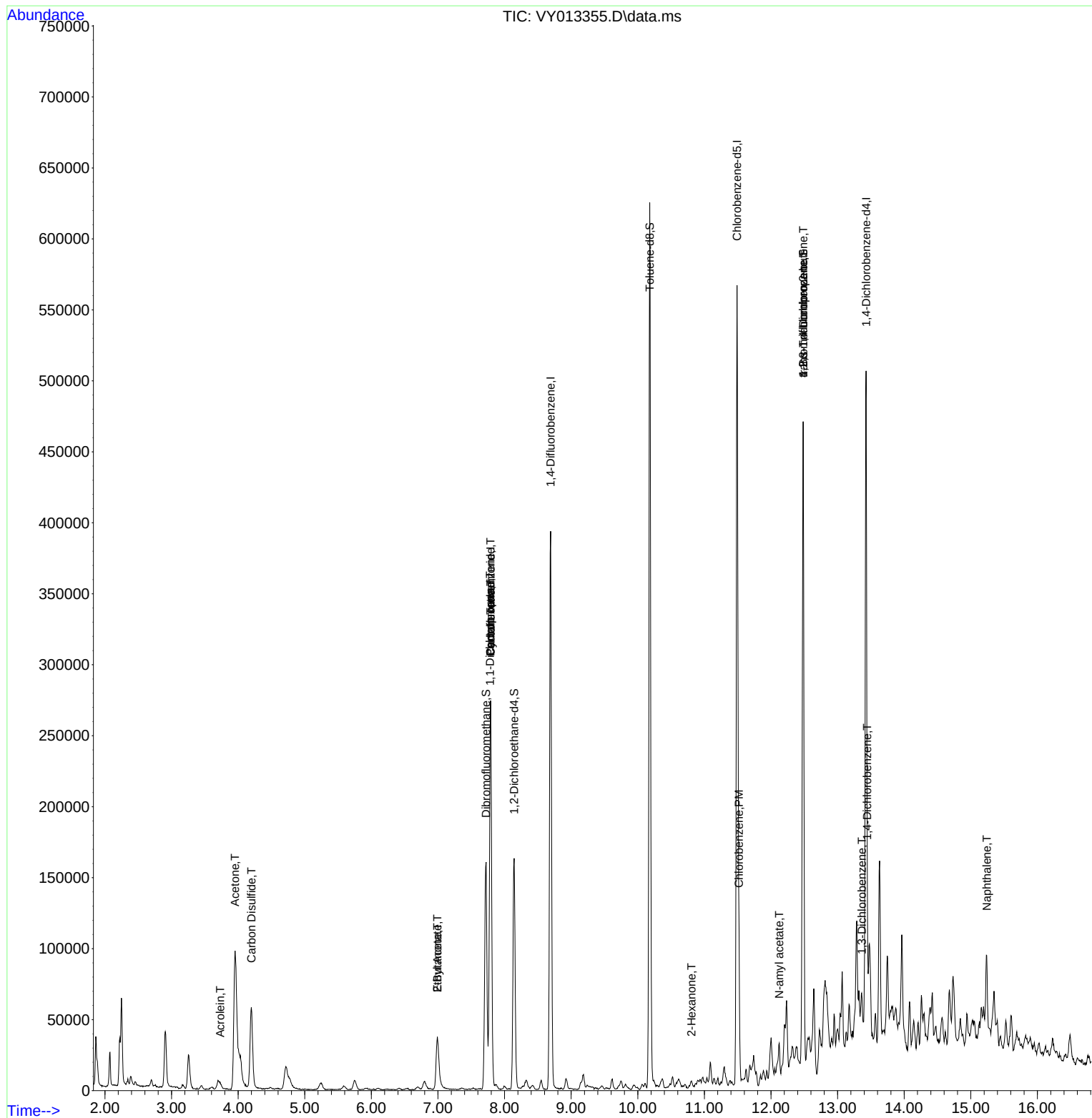
| Target Compounds              |        |     |        |           | Qvalue |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| 11) Tert butyl alcohol        | 4.973  | 59  | 194    | Below Cal | #      | 74  |
| 13) Acrolein                  | 3.729  | 56  | 4727   | 15.459    | ug/l # | 14  |
| 16) Acetone                   | 3.954  | 43  | 227441 | 265.748   | ug/l   | 99  |
| 17) Carbon Disulfide          | 4.198  | 76  | 116005 | 18.079    | ug/l   | 99  |
| 25) 2-Butanone                | 6.990  | 43  | 69226  | 63.172    | ug/l   | 90  |
| 31) Cyclohexane               | 7.789  | 56  | 8999   | 2.391     | ug/l # | 50  |
| 36) 1,1-Dichloropropene       | 7.783  | 75  | 15291  | 4.703     | ug/l # | 51  |
| 37) Ethyl Acetate             | 6.990  | 43  | 69226  | 26.416    | ug/l # | 70  |
| 38) Carbon Tetrachloride      | 7.789  | 117 | 20150  | 5.605     | ug/l # | 16  |
| 59) 2-Hexanone                | 10.807 | 43  | 2601   | 1.510     | ug/l # | 31  |
| 65) Chlorobenzene             | 11.520 | 112 | 50327  | 8.213     | ug/l   | 98  |
| 74) N-amyl acetate            | 12.124 | 43  | 6876   | 2.273     | ug/l # | 62  |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75  | 64039  | 41.579    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75  | 64039  | 86.296    | ug/l # | 13  |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146 | 7314   | 1.790     | ug/l # | 73  |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146 | 15465  | 3.744     | ug/l # | 80  |
| 95) Naphthalene               | 15.239 | 128 | 50685  | 11.956    | ug/l   | 97  |

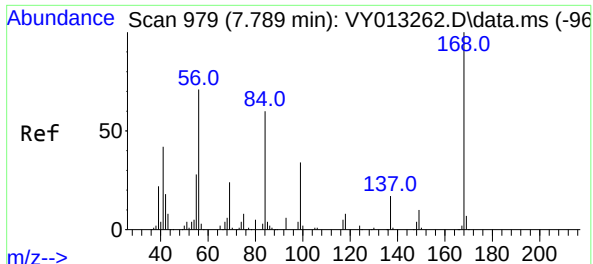
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041923\  
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Sample : 02366-05  
Misc : 4.35g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

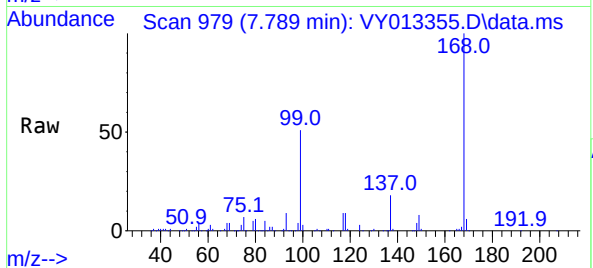
Quant Time: Apr 20 06:57:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 13 05:55:16 2023  
Response via : Initial Calibration



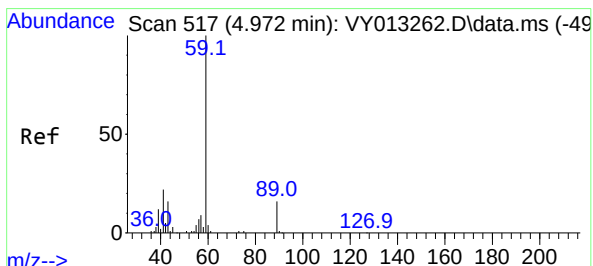
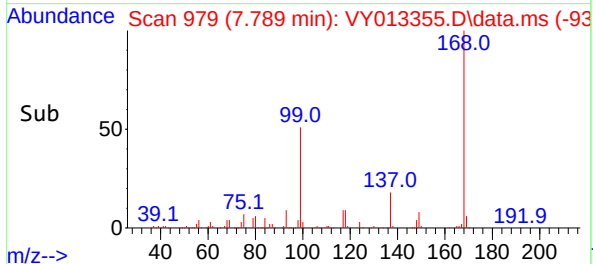
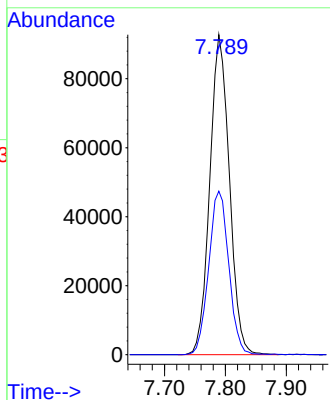


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

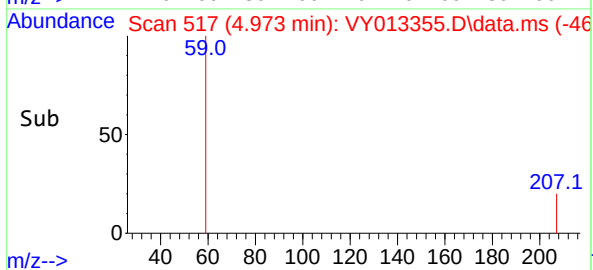
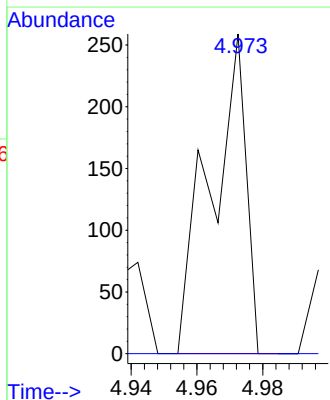
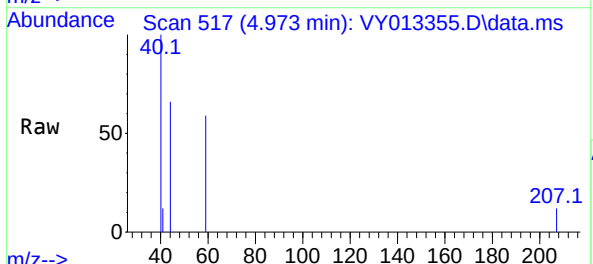


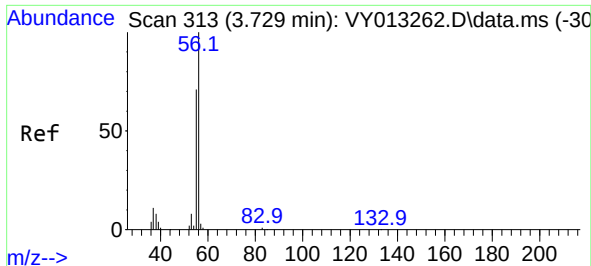
Tgt Ion:168 Resp: 207127  
Ion Ratio Lower Upper  
168 100  
99 51.1 41.7 62.5



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.973 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

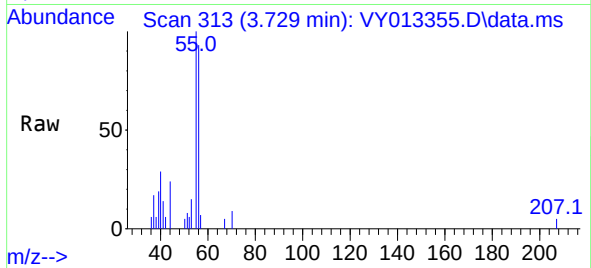
Tgt Ion: 59 Resp: 194  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#



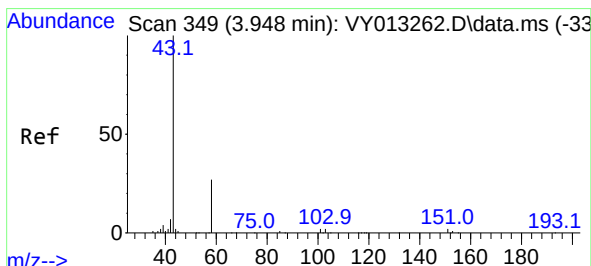
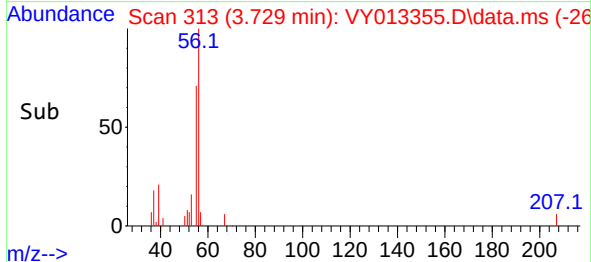
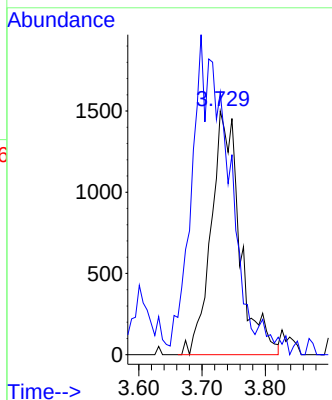


#13  
Acrolein  
Concen: 15.459 ug/l  
RT: 3.729 min Scan# 313  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

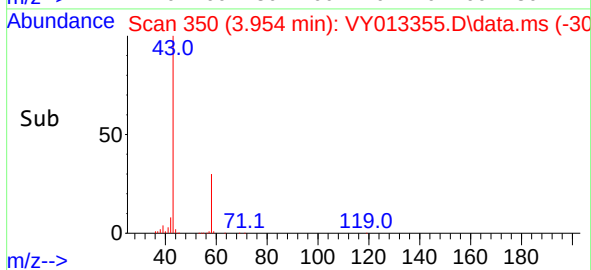
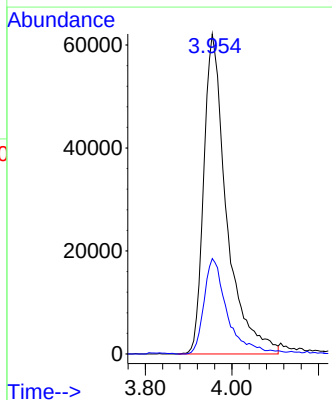
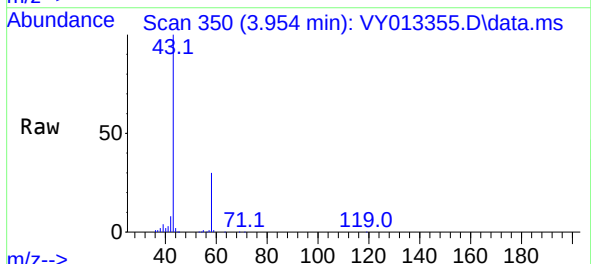


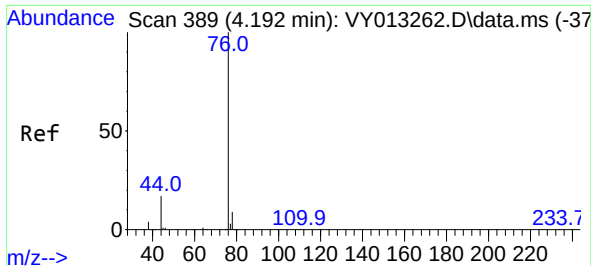
Tgt Ion: 56 Resp: 4727  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.8 85.2#



#16  
Acetone  
Concen: 265.748 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Tgt Ion: 43 Resp: 227441  
Ion Ratio Lower Upper  
43 100  
58 29.8 24.2 36.2

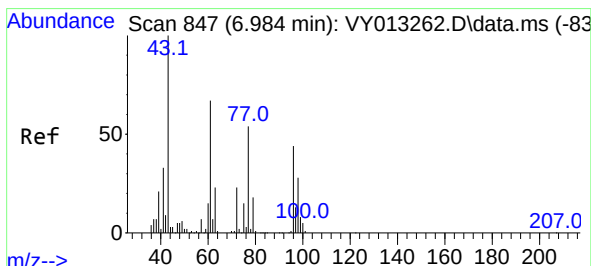
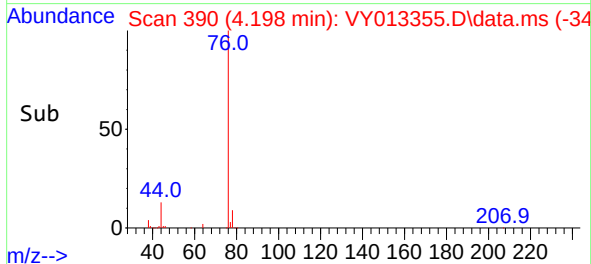
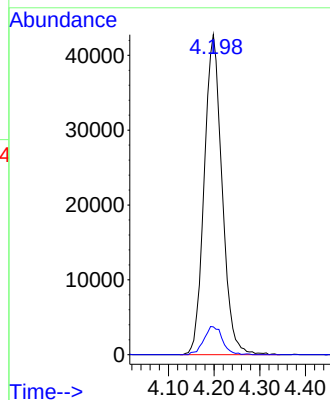
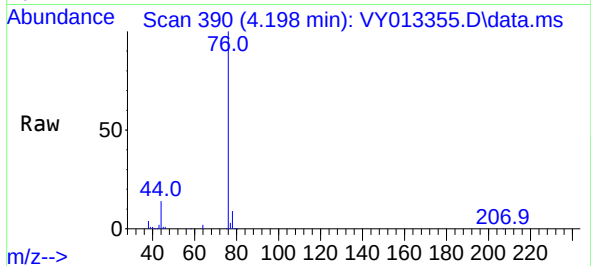




#17  
Carbon Disulfide  
Concen: 18.079 ug/l  
RT: 4.198 min Scan# 390  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

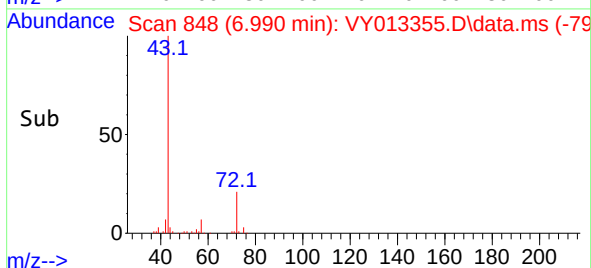
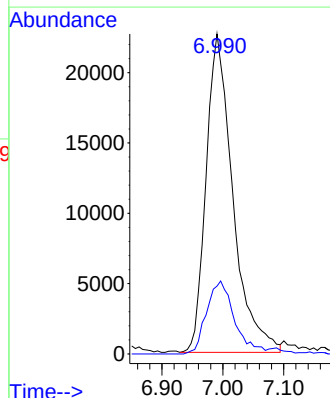
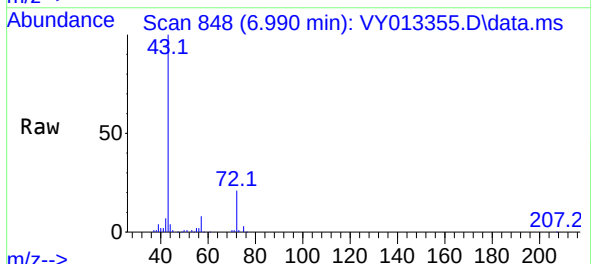
Instrument :  
MSVOA\_Y  
ClientSampleId :

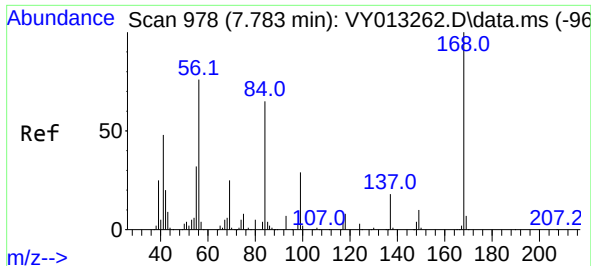
Tgt Ion: 76 Resp: 116005  
Ion Ratio Lower Upper  
76 100  
78 8.7 7.1 10.7



#25  
2-Butanone  
Concen: 63.172 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

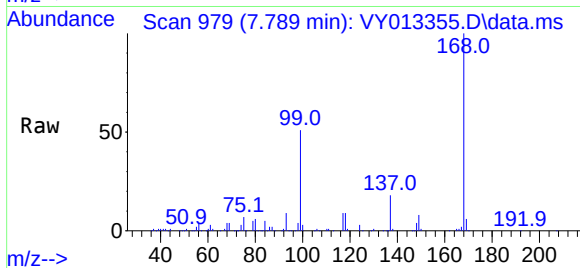
Tgt Ion: 43 Resp: 69226  
Ion Ratio Lower Upper  
43 100  
72 21.3 21.0 31.4



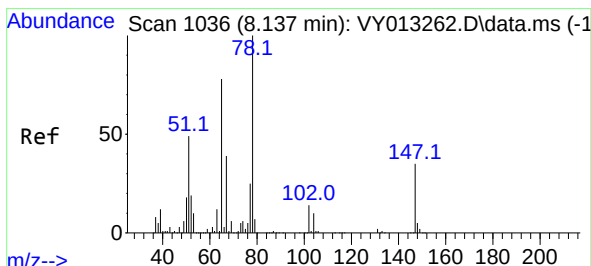
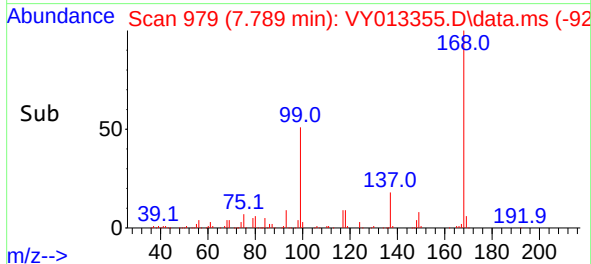
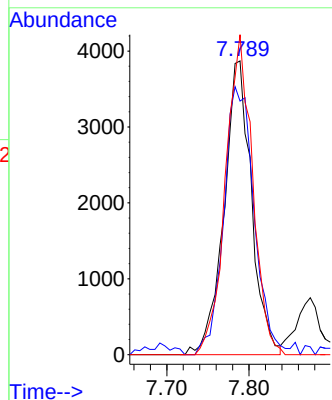


#31  
Cyclohexane  
Concen: 2.391 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

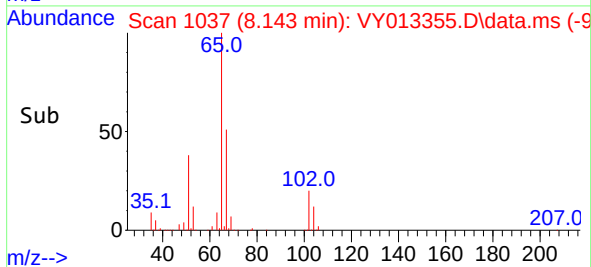
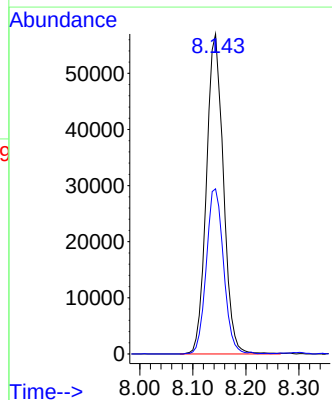
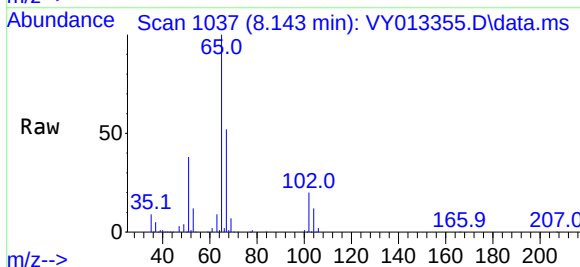


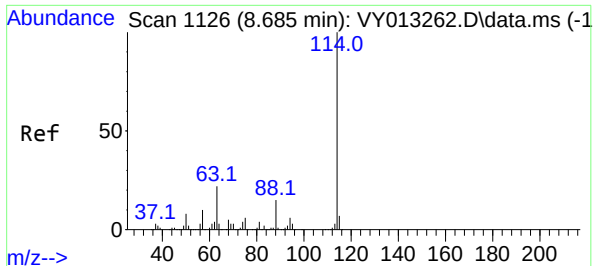
Tgt Ion: 56 Resp: 8999  
Ion Ratio Lower Upper  
56 100  
69 84.4 25.7 38.5#  
84 108.9 64.3 96.5#



#33  
1,2-Dichloroethane-d4  
Concen: 50.829 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Tgt Ion: 65 Resp: 126523  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY013355.D

Acq: 19 Apr 2023 19:02

Instrument :

MSVOA\_Y

ClientSampleId :

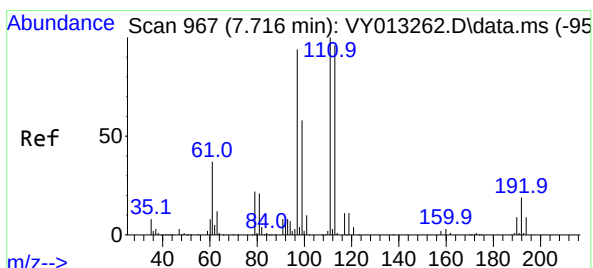
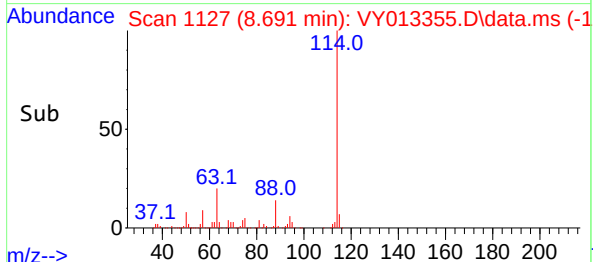
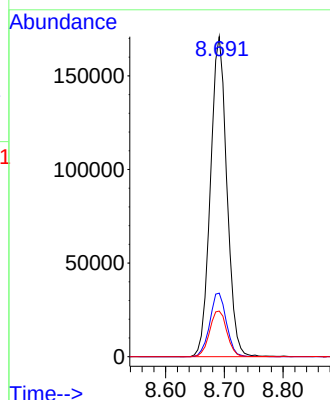
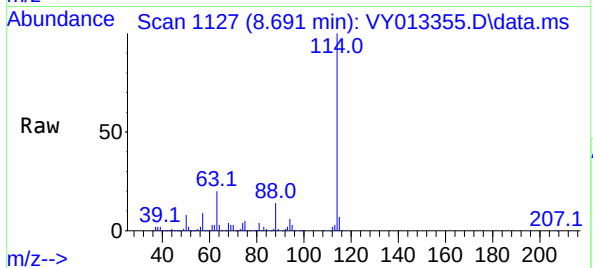
Tgt Ion:114 Resp: 331483

Ion Ratio Lower Upper

114 100

63 19.9 0.0 37.4

88 14.2 0.0 28.6



#35

Dibromofluoromethane

Concen: 53.114 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY013355.D

Acq: 19 Apr 2023 19:02

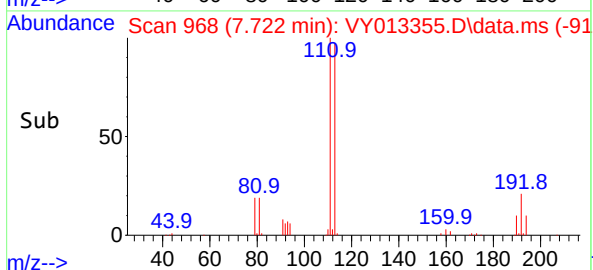
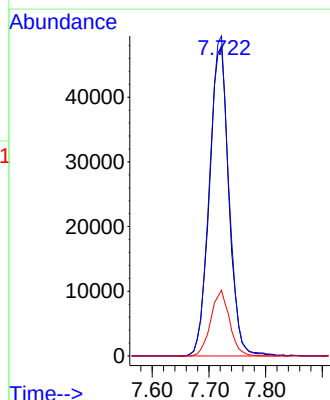
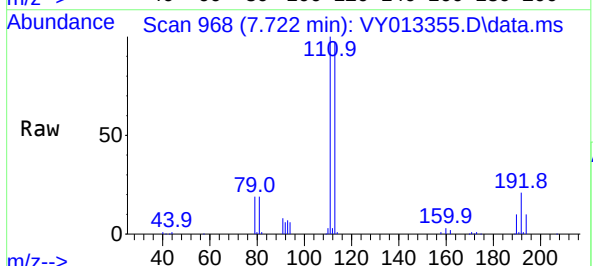
Tgt Ion:113 Resp: 113983

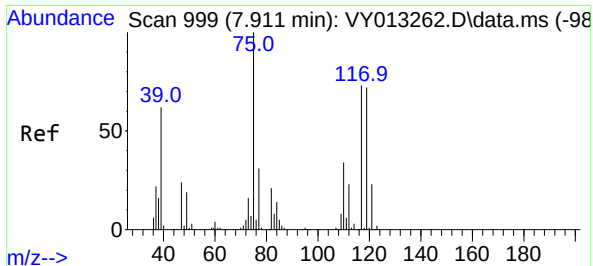
Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.2

192 20.4 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.703 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

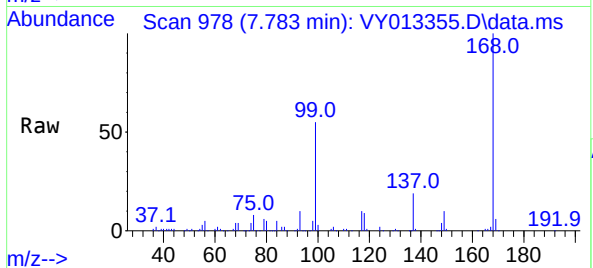
Lab File: VY013355.D

Acq: 19 Apr 2023 19:02

Instrument :

MSVOA\_Y

ClientSampleId :



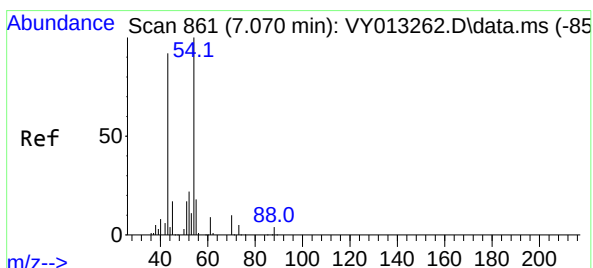
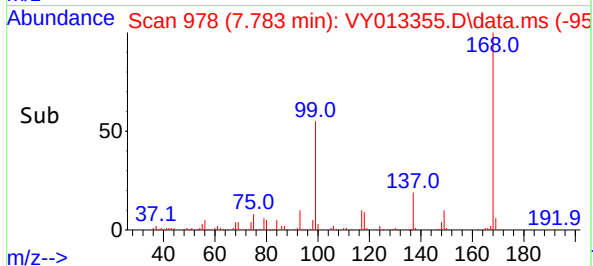
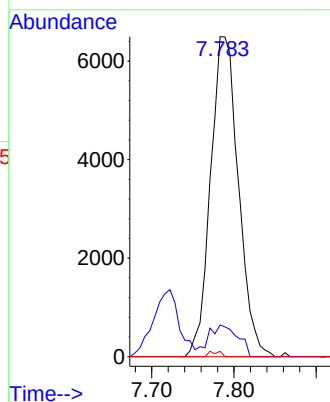
Tgt Ion: 75 Resp: 15291

Ion Ratio Lower Upper

75 100

110 10.5 17.8 53.3#

77 0.7 25.0 37.4#



#37

Ethyl Acetate

Concen: 26.416 ug/l

RT: 6.990 min Scan# 848

Delta R.T. -0.079 min

Lab File: VY013355.D

Acq: 19 Apr 2023 19:02

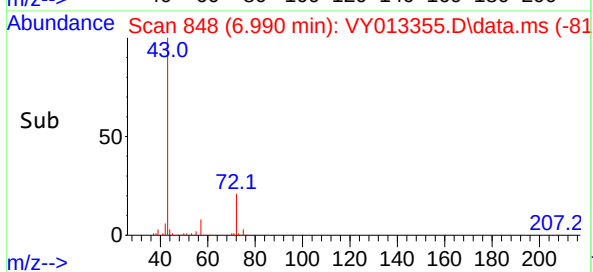
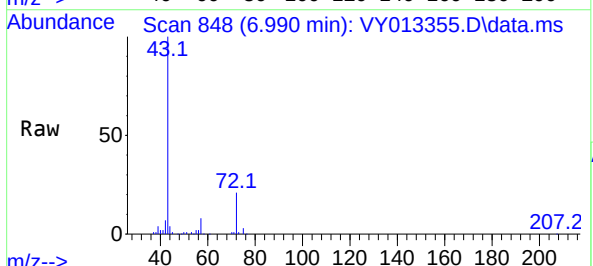
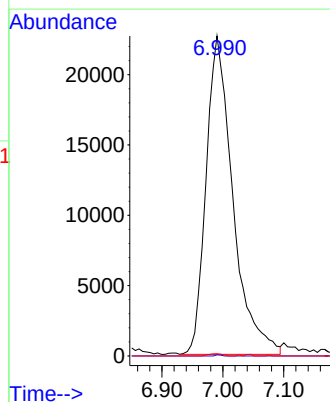
Tgt Ion: 43 Resp: 69226

Ion Ratio Lower Upper

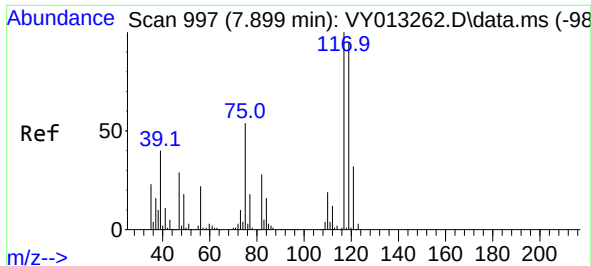
43 100

61 0.1 10.7 16.1#

70 0.4 7.8 11.8#

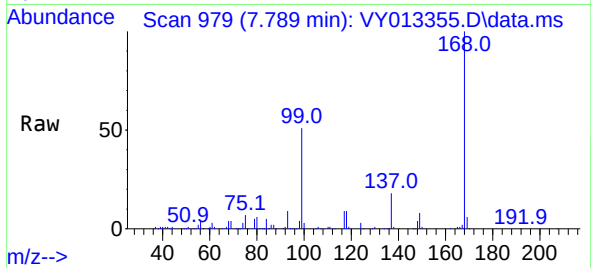




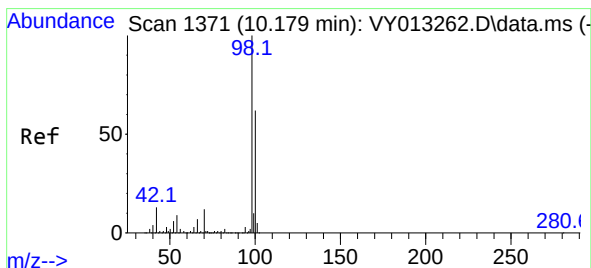
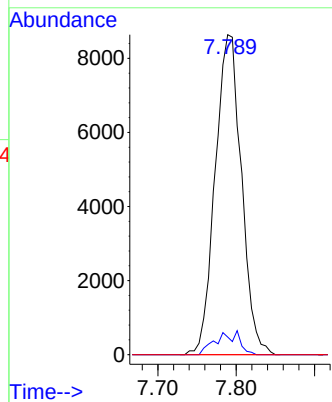
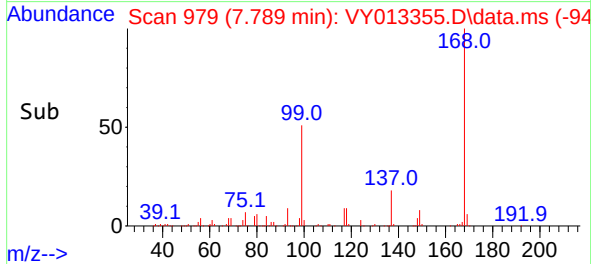


#38  
Carbon Tetrachloride  
Concen: 5.605 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

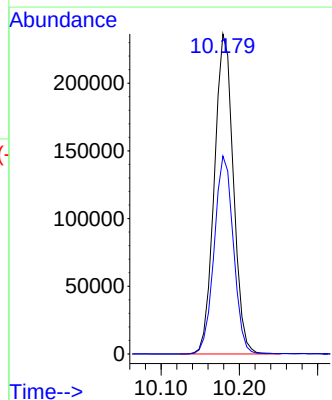
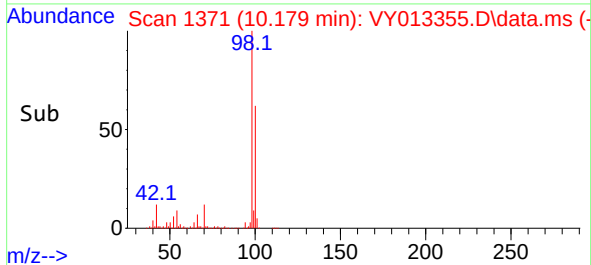
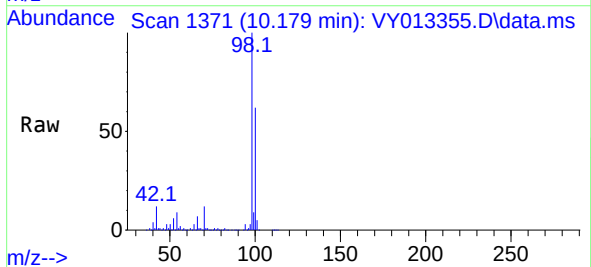


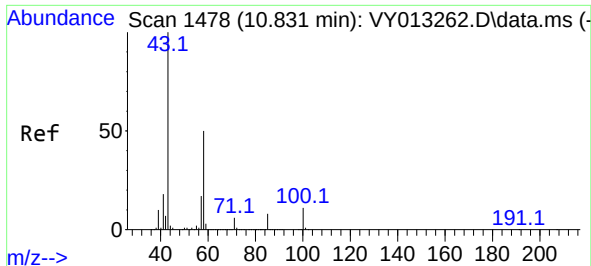
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Ion Ratio Lower Upper  
117 100  
119 5.5 77.2 115.8#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 49.940 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Tgt Ion: 98 Resp: 398910  
Ion Ratio Lower Upper  
98 100  
100 62.5 50.9 76.3

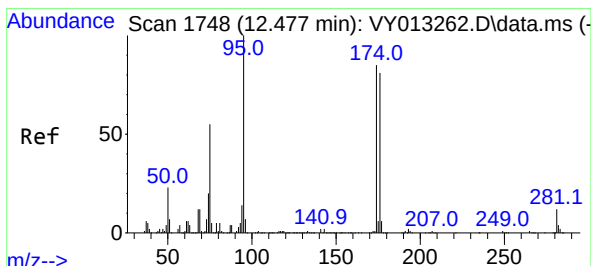
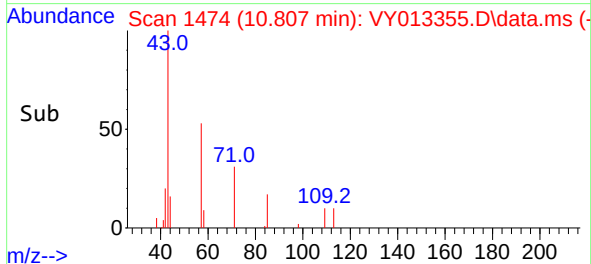
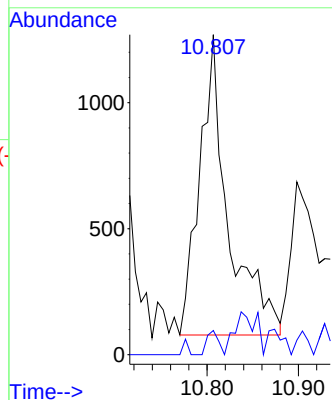
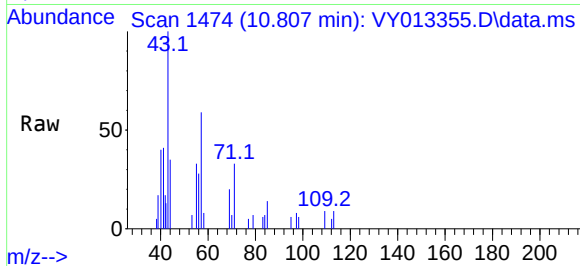




#59  
2-Hexanone  
Concen: 1.510 ug/l  
RT: 10.807 min Scan# 1478  
Delta R.T. -0.024 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

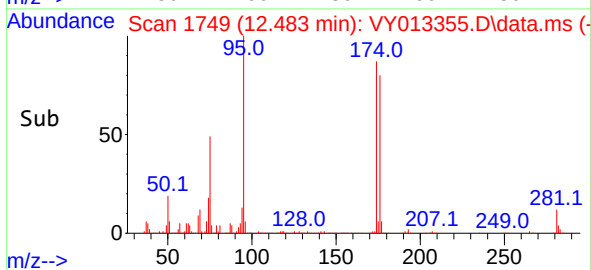
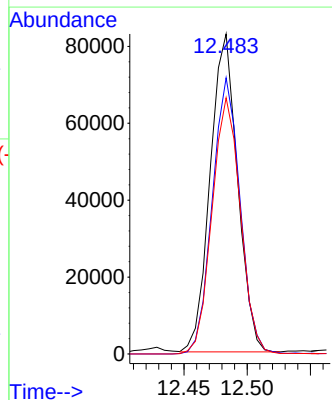
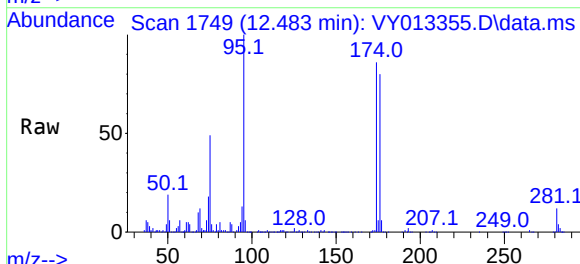
Instrument :  
MSVOA\_Y  
ClientSampleId :

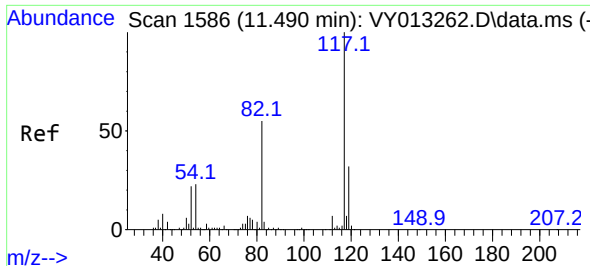
Tgt Ion: 43 Resp: 2601  
Ion Ratio Lower Upper  
43 100  
58 3.2 25.9 77.8#



#62  
4-Bromofluorobenzene  
Concen: 47.943 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

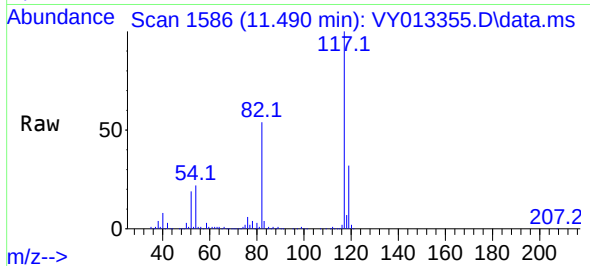
Tgt Ion: 95 Resp: 124428  
Ion Ratio Lower Upper  
95 100  
174 88.3 0.0 176.6  
176 83.5 0.0 170.2



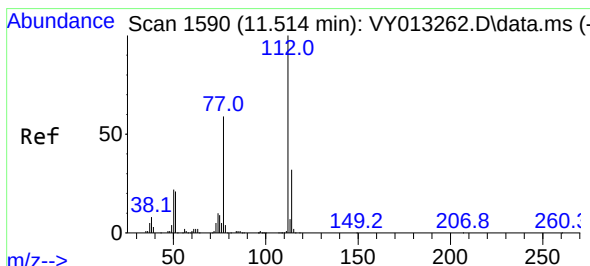
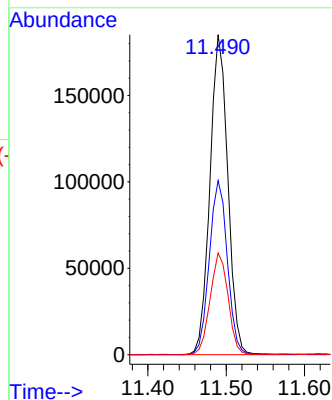
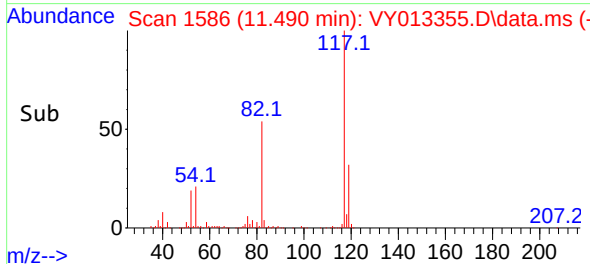


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 11586  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

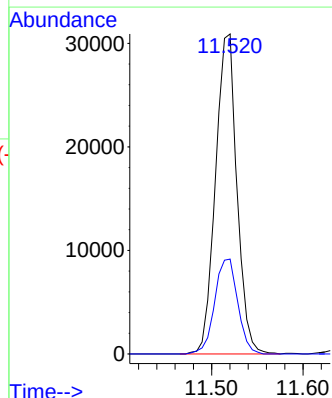
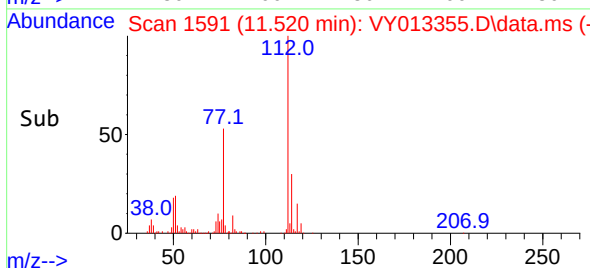
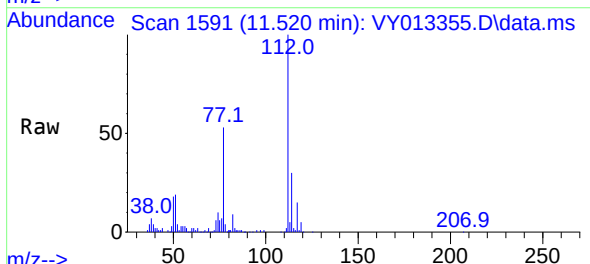


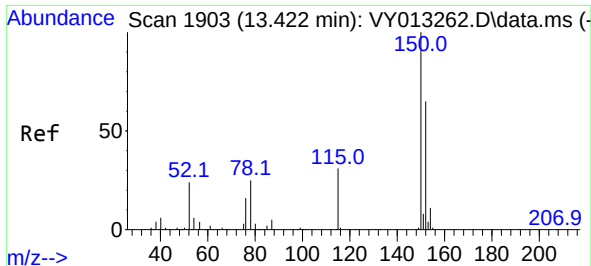
Tgt Ion:117 Resp: 292942  
Ion Ratio Lower Upper  
117 100  
82 54.3 45.4 68.0  
119 31.8 25.6 38.4



#65  
Chlorobenzene  
Concen: 8.213 ug/l  
RT: 11.520 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Tgt Ion:112 Resp: 50327  
Ion Ratio Lower Upper  
112 100  
114 29.6 24.5 36.7

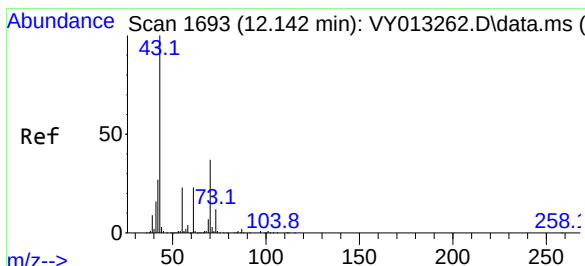
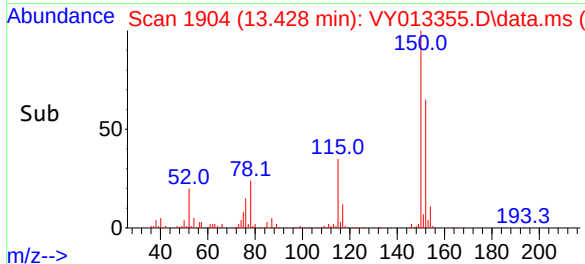
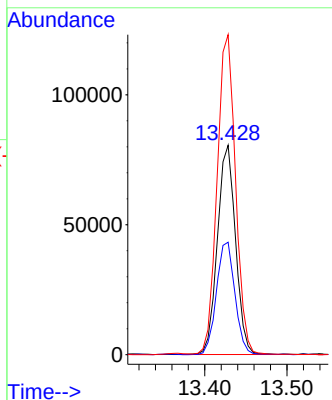
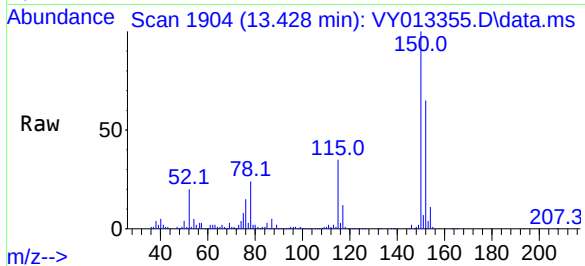




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1903  
Delta R.T. 0.006 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

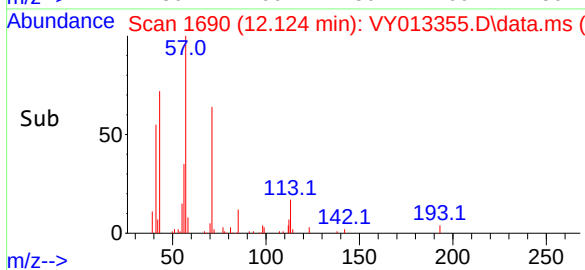
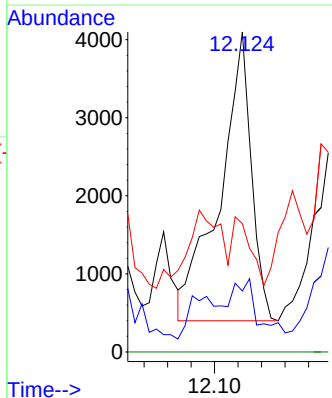
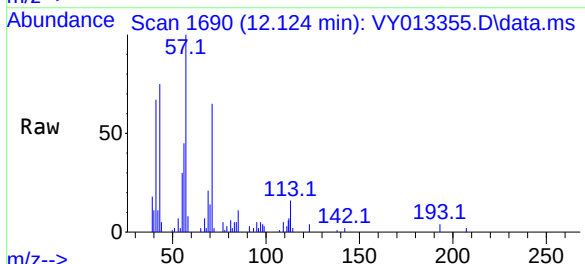
Instrument :  
MSVOA\_Y  
ClientSampleId :

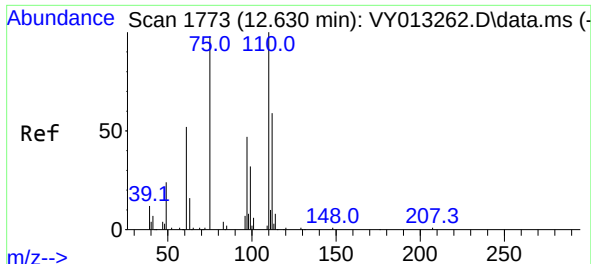
Tgt Ion:152 Resp: 123603  
Ion Ratio Lower Upper  
152 100  
115 55.0 27.1 81.3  
150 155.6 0.0 347.8



#74  
N-ethyl acetate  
Concen: 2.273 ug/l  
RT: 12.124 min Scan# 1690  
Delta R.T. -0.018 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Tgt Ion: 43 Resp: 6876  
Ion Ratio Lower Upper  
43 100  
70 12.3 31.6 47.4#  
55 13.3 18.8 28.2#  
61 0.0 17.8 26.8#

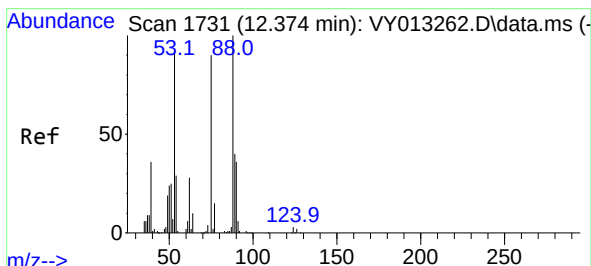
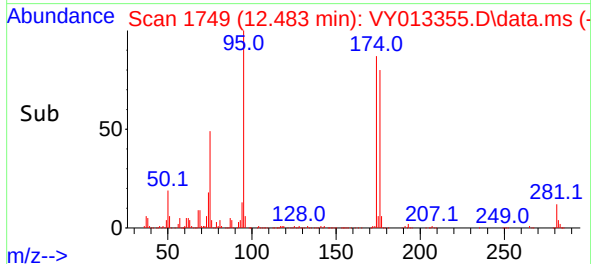
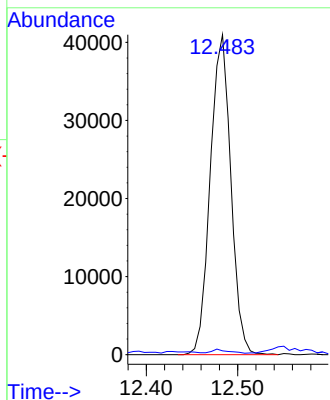
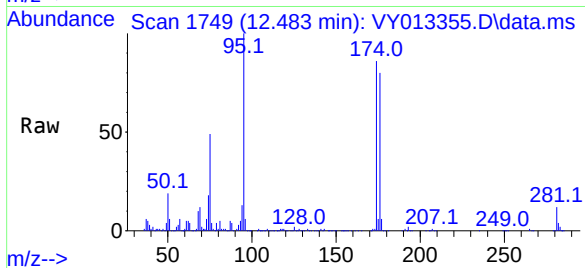




#76  
1,2,3-Trichloropropane  
Concen: 41.579 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.146 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

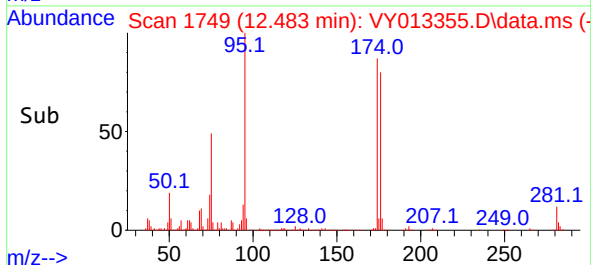
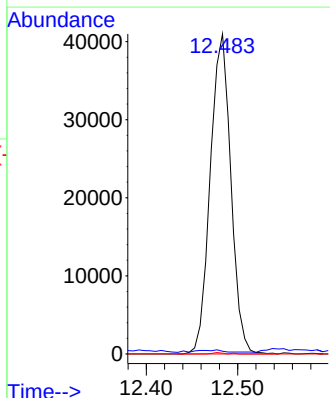
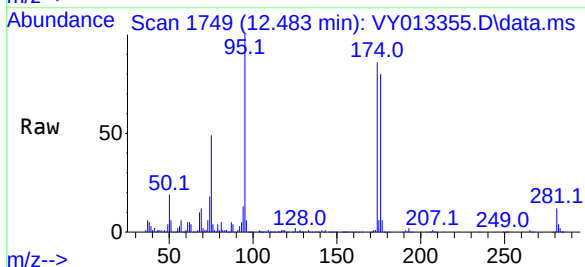
Instrument :  
MSVOA\_Y  
ClientSampleId :

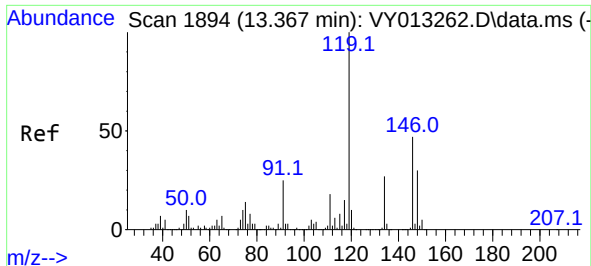
Tgt Ion: 75 Resp: 64039  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 86.296 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.110 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

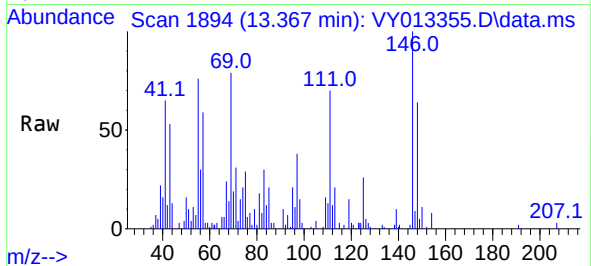
Tgt Ion: 75 Resp: 64039  
Ion Ratio Lower Upper  
75 100  
53 0.9 73.4 110.0#  
89 0.3 36.6 55.0#



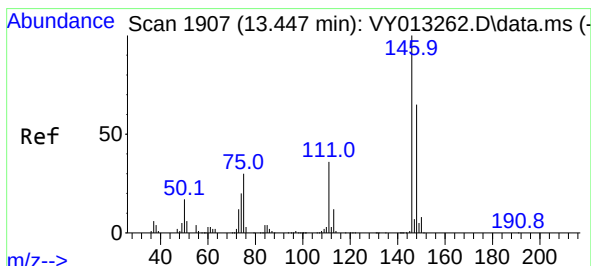
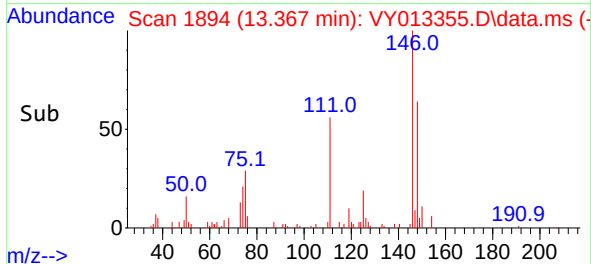
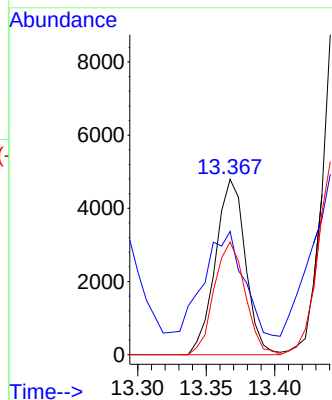


#87  
1,3-Dichlorobenzene  
Concen: 1.790 ug/l  
RT: 13.367 min Scan# 1894  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

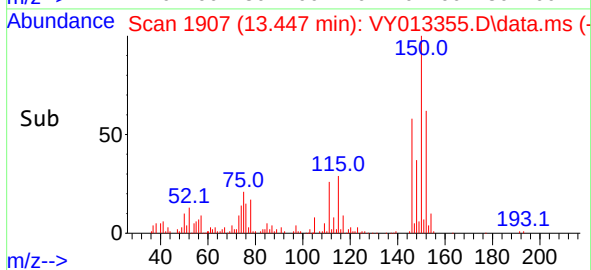
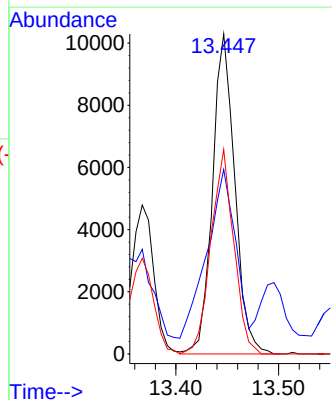
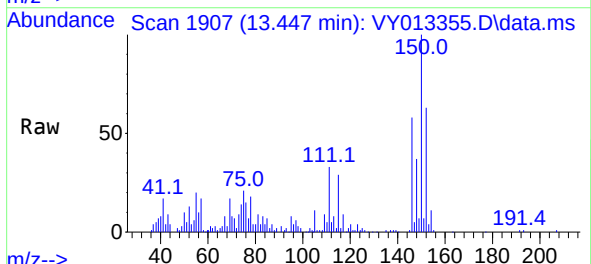


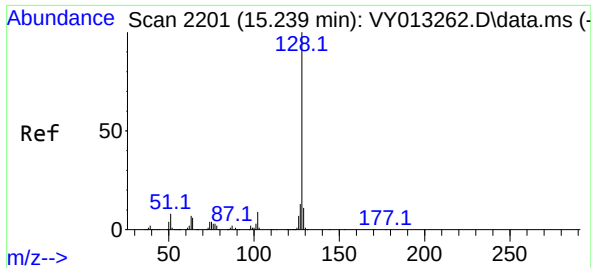
Tgt Ion:146 Resp: 7314  
Ion Ratio Lower Upper  
146 100  
111 78.1 19.1 57.5#  
148 65.9 31.8 95.3



#88  
1,4-Dichlorobenzene  
Concen: 3.744 ug/l  
RT: 13.447 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY013355.D  
Acq: 19 Apr 2023 19:02

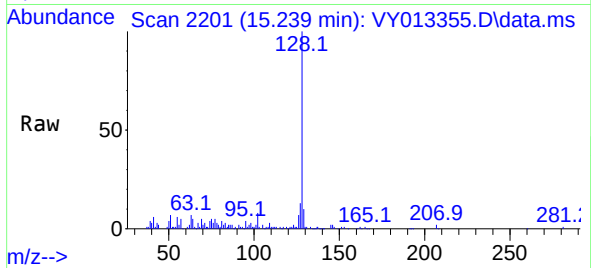
Tgt Ion:146 Resp: 15465  
Ion Ratio Lower Upper  
146 100  
111 66.5 18.6 55.8#  
148 65.8 31.5 94.5





#95  
 Naphthalene  
 Concen: 11.956 ug/l  
 RT: 15.239 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VY013355.D  
 Acq: 19 Apr 2023 19:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 50685 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 14.3  | 10.3  | 15.5  |
| 129      | 11.6  | 8.6   | 13.0  |

