

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011024\  
 Data File : VY016972.D  
 Acq On : 10 Jan 2024 14:50  
 Operator : SY/MD  
 Sample : P1067-09RE  
 Misc : 1.96g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SP-C-GRABRE

Quant Time: Jan 11 02:03:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 02 14:25:32 2024  
 Response via : Initial Calibration

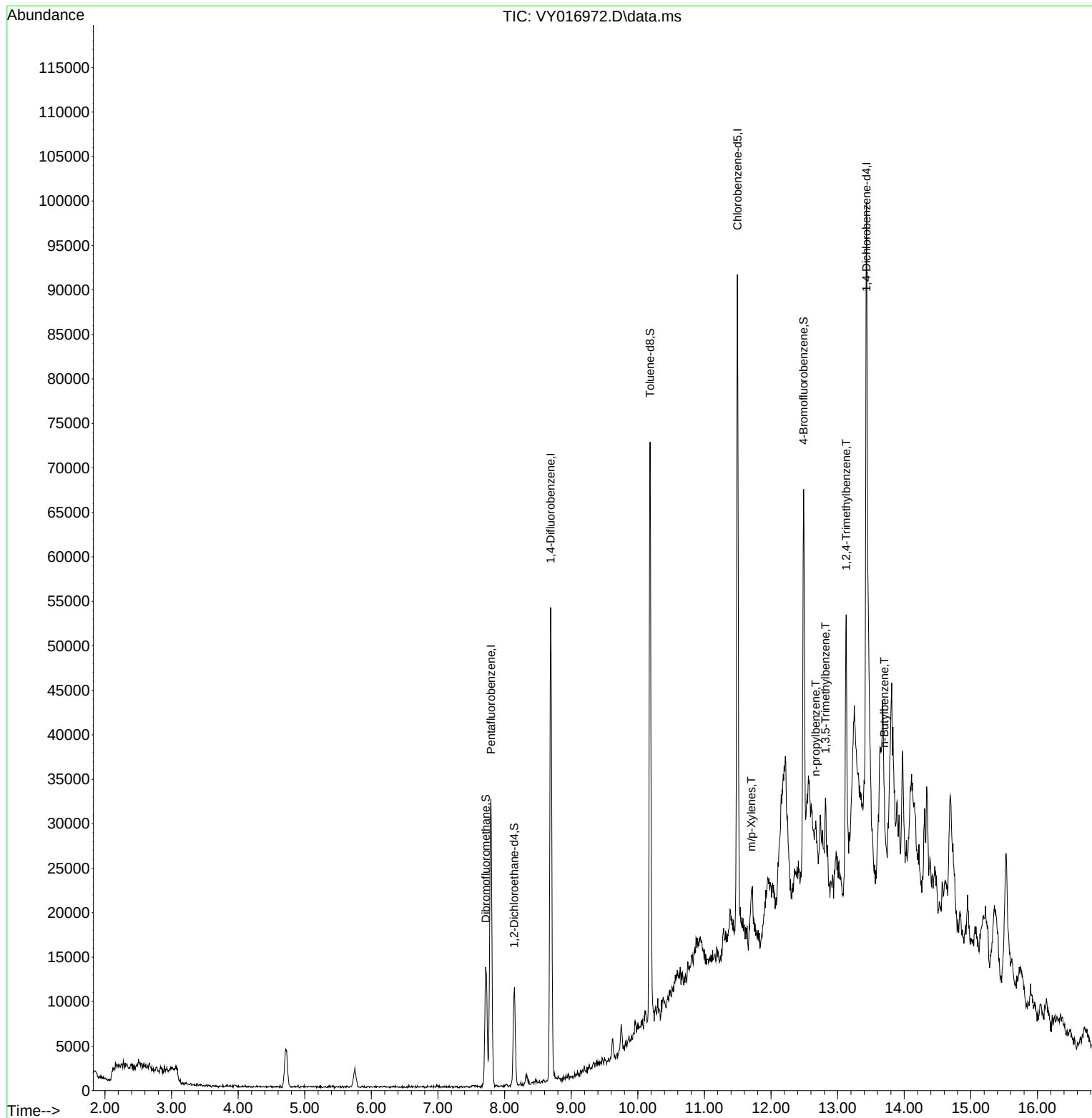
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 7.795  | 168   | 25179    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691  | 114   | 45982    | 50.000   | ug/l   | -0.01    |
| 63) Chlorobenzene-d5        | 11.495 | 117   | 39928    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.434 | 152   | 15584    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.142  | 65    | 8517     | 34.224   | ug/l   | -0.01    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =      | 68.440%  |
| 35) Dibromofluoromethane    | 7.715  | 113   | 10266    | 35.036   | ug/l   | -0.01    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =      | 70.080%  |
| 50) Toluene-d8              | 10.185 | 98    | 42920    | 42.537   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =      | 85.080%  |
| 62) 4-Bromofluorobenzene    | 12.489 | 95    | 13476    | 39.586   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =      | 79.180%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 68) m/p-Xylenes             | 11.703 | 106   | 1992     | 3.624    | ug/l   | 87       |
| 78) n-propylbenzene         | 12.672 | 91    | 1907     | 1.233    | ug/l   | 78       |
| 80) 1,3,5-Trimethylbenzene  | 12.818 | 105   | 3267     | 3.246    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.129 | 105   | 15154    | 15.289   | ug/l   | 97       |
| 89) n-Butylbenzene          | 13.702 | 91    | 1445     | 1.386    | ug/l # | 71       |
| -----                       |        |       |          |          |        |          |

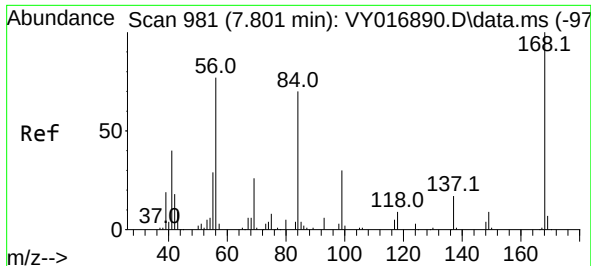
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010224S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 02 14:25:32 2024  
Response via : Initial Calibration

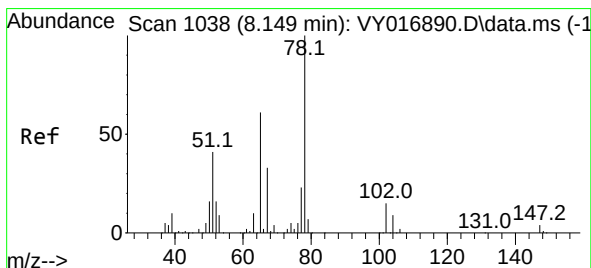
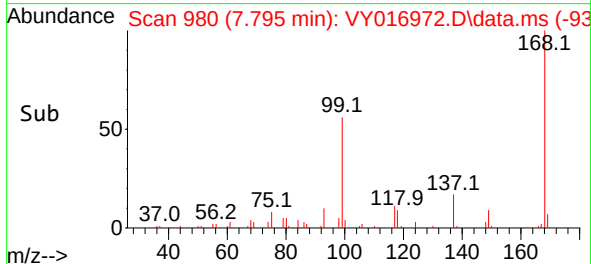
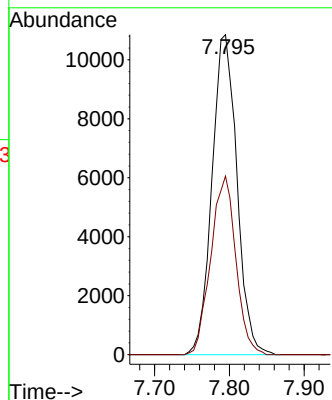
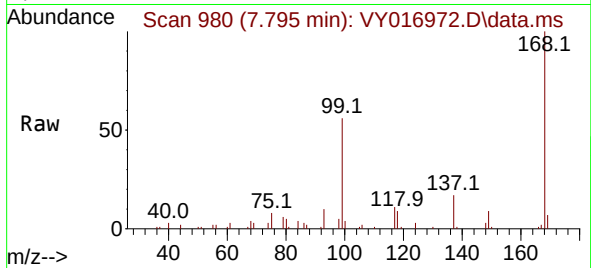




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY016972.D  
Acq: 10 Jan 2024 14:50

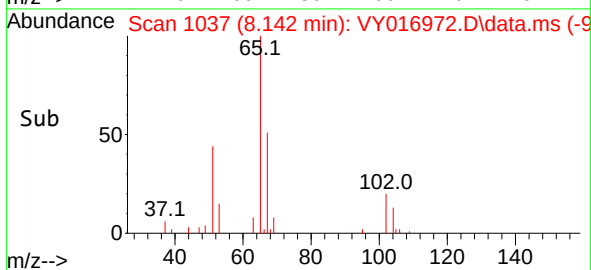
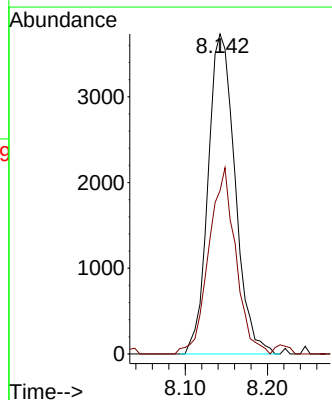
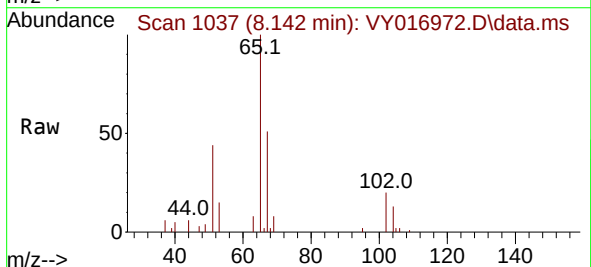
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SP-C-GRABRE

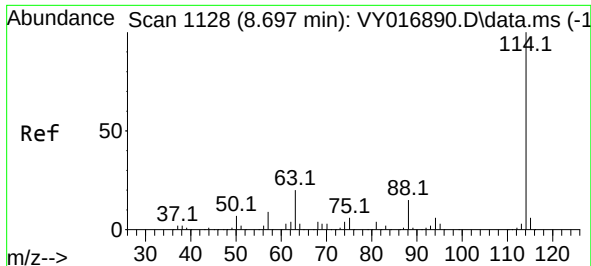
Tgt Ion:168 Resp: 25179  
Ion Ratio Lower Upper  
168 100  
99 55.8 44.2 66.4



#33  
1,2-Dichloroethane-d4  
Concen: 34.224 ug/l  
RT: 8.142 min Scan# 1037  
Delta R.T. -0.013 min  
Lab File: VY016972.D  
Acq: 10 Jan 2024 14:50

Tgt Ion: 65 Resp: 8517  
Ion Ratio Lower Upper  
65 100  
67 57.9 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1128

Delta R.T. -0.012 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

SP-C-GRABRE

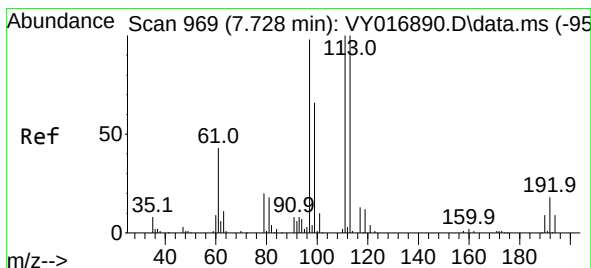
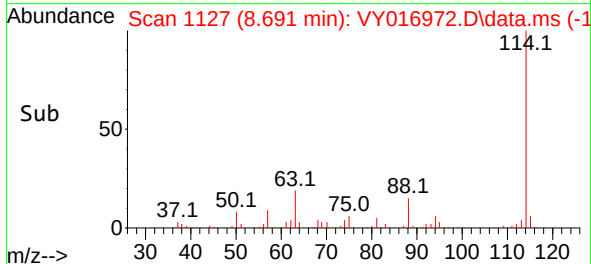
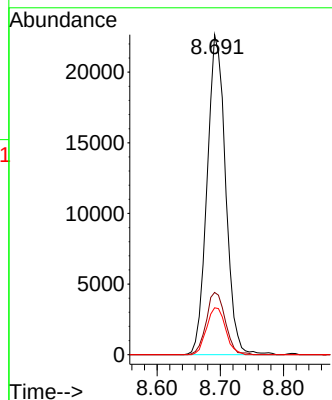
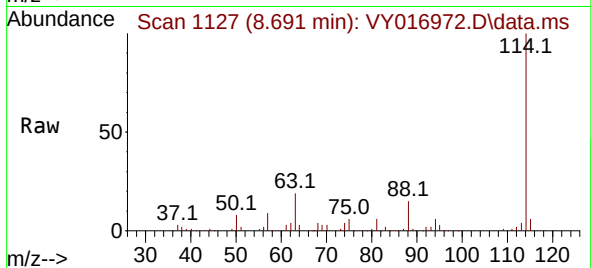
Tgt Ion:114 Resp: 45982

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.4

88 14.6 0.0 29.0



#35

Dibromofluoromethane

Concen: 35.036 ug/l

RT: 7.715 min Scan# 967

Delta R.T. -0.013 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

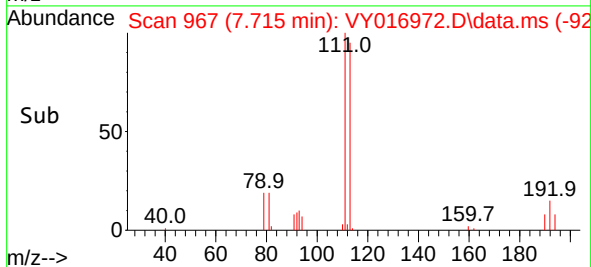
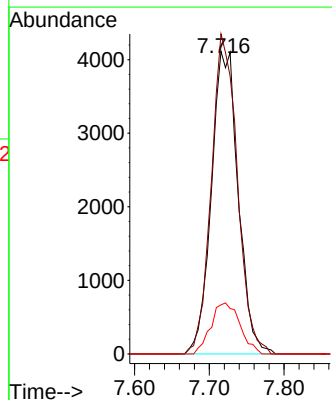
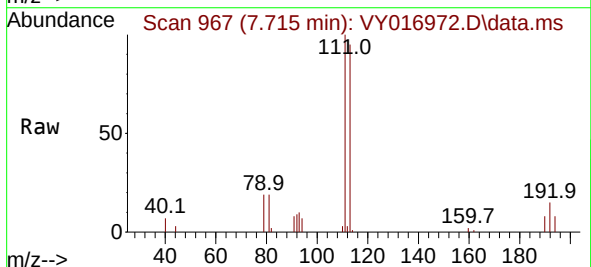
Tgt Ion:113 Resp: 10266

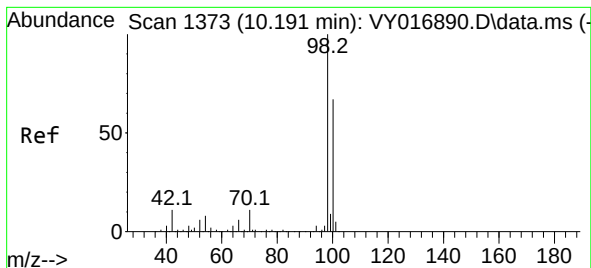
Ion Ratio Lower Upper

113 100

111 102.4 83.8 125.6

192 18.3 14.5 21.7





#50

Toluene-d8

Concen: 42.537 ug/l

RT: 10.185 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

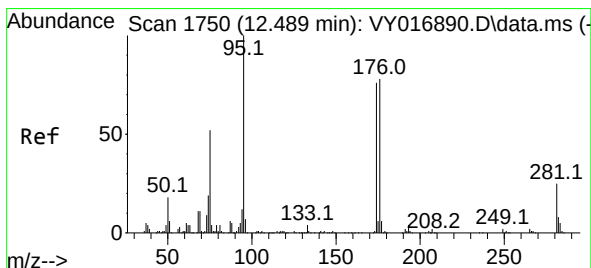
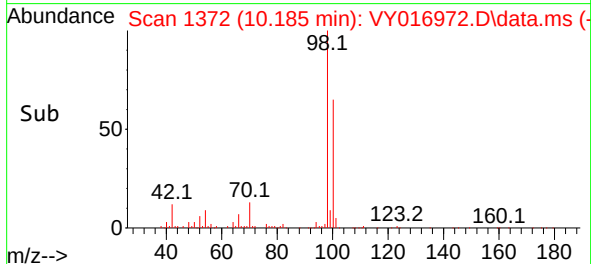
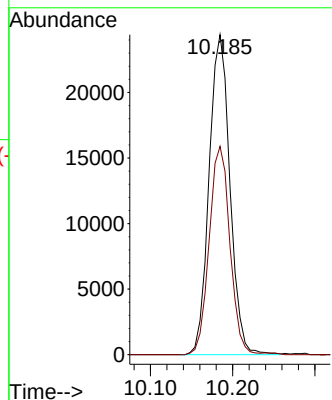
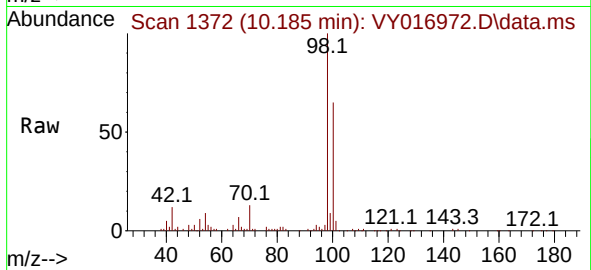
SP-C-GRABRE

Tgt Ion: 98 Resp: 42920

Ion Ratio Lower Upper

98 100

100 64.9 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 39.586 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

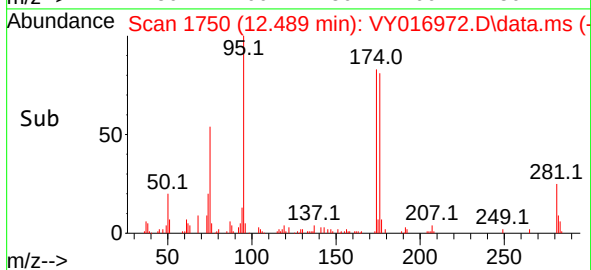
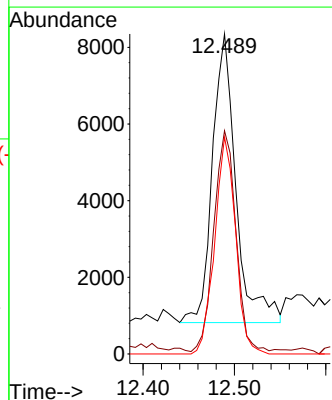
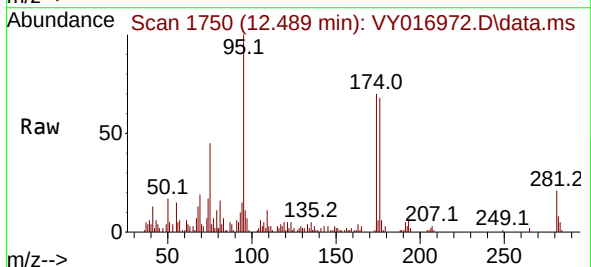
Tgt Ion: 95 Resp: 13476

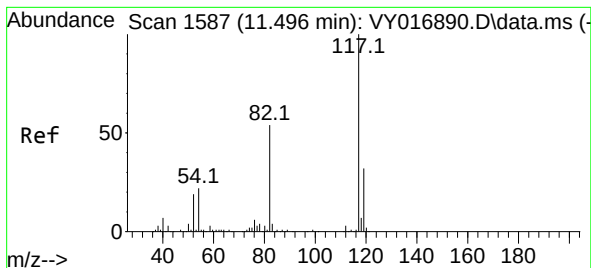
Ion Ratio Lower Upper

95 100

174 71.4 0.0 160.0

176 66.7 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 11

Delta R.T. -0.007 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

SP-C-GRABRE

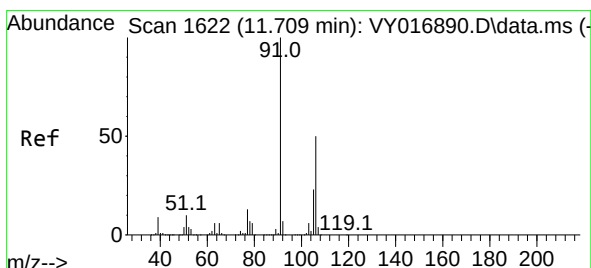
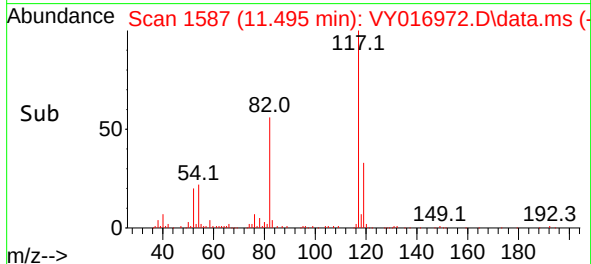
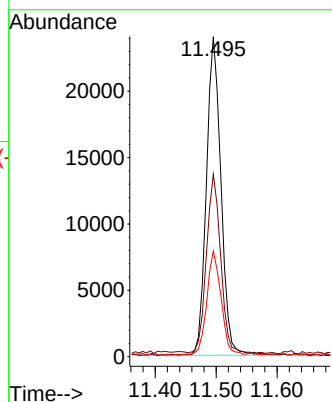
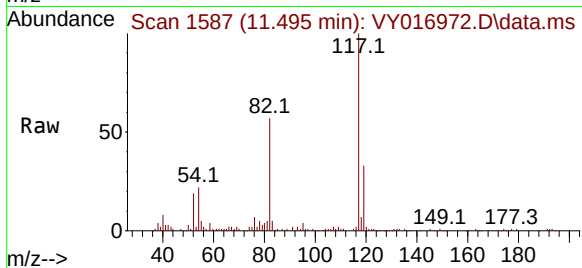
Tgt Ion:117 Resp: 39928

Ion Ratio Lower Upper

117 100

82 56.3 43.8 65.8

119 32.6 26.5 39.7



#68

m/p-Xylenes

Concen: 3.624 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. -0.006 min

Lab File: VY016972.D

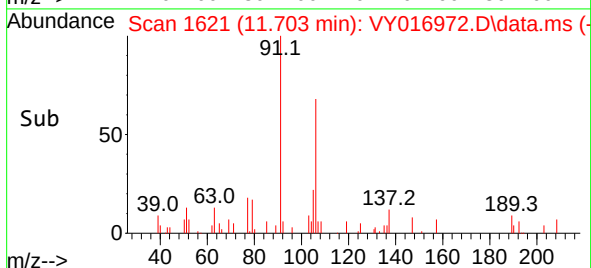
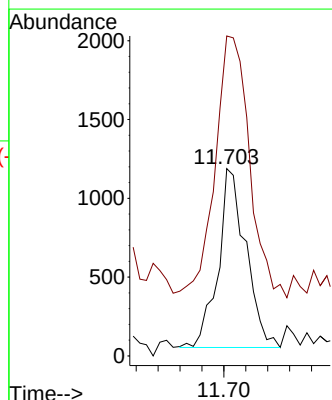
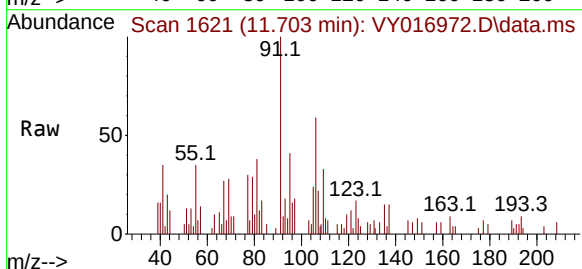
Acq: 10 Jan 2024 14:50

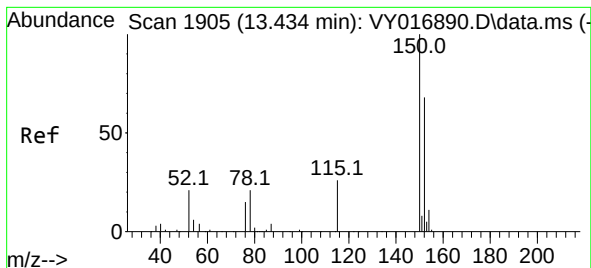
Tgt Ion:106 Resp: 1992

Ion Ratio Lower Upper

106 100

91 181.5 160.7 241.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

SP-C-GRABRE

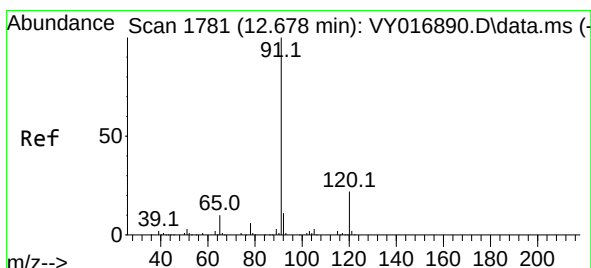
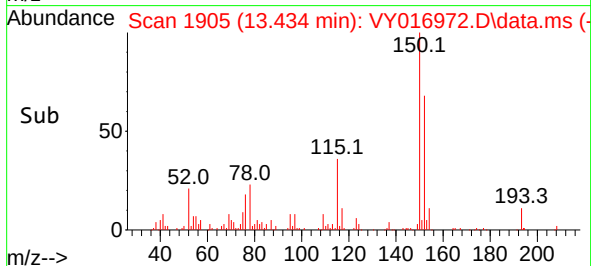
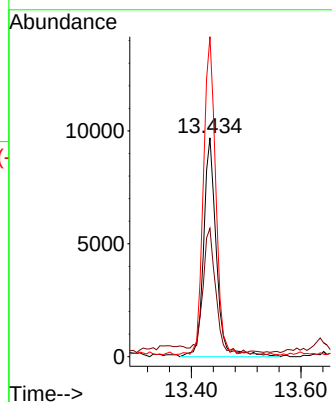
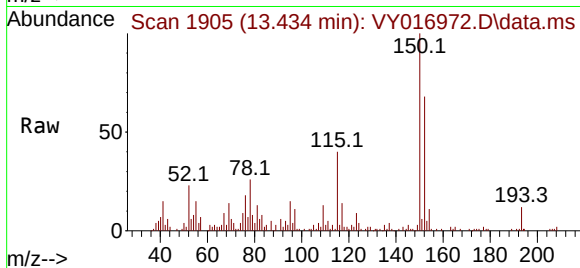
Tgt Ion:152 Resp: 15584

Ion Ratio Lower Upper

152 100

115 55.7 30.0 90.0

150 139.3 0.0 344.6



#78

n-propylbenzene

Concen: 1.233 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. -0.006 min

Lab File: VY016972.D

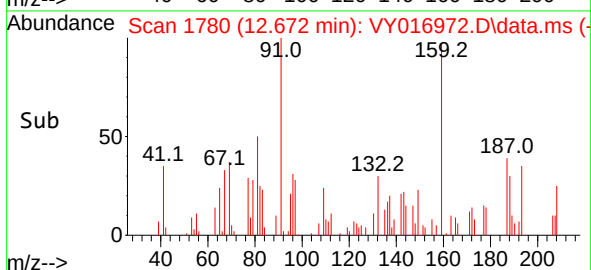
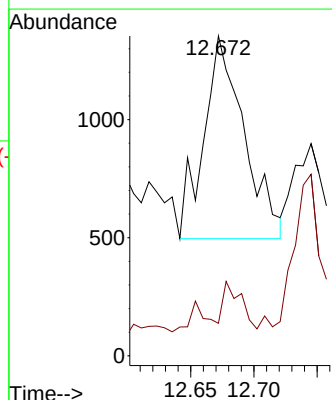
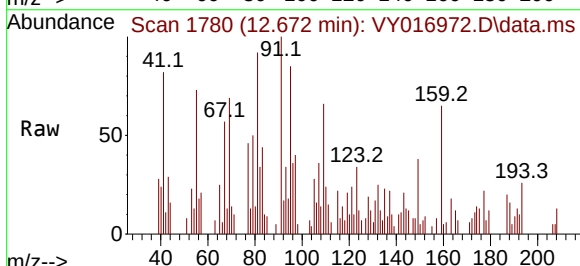
Acq: 10 Jan 2024 14:50

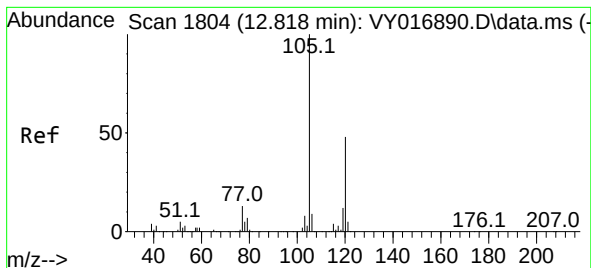
Tgt Ion: 91 Resp: 1907

Ion Ratio Lower Upper

91 100

120 11.5 11.0 33.0





#80

1,3,5-Trimethylbenzene

Concen: 3.246 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY016972.D

Acq: 10 Jan 2024 14:50

Instrument :

MSVOA\_Y

ClientSampleId :

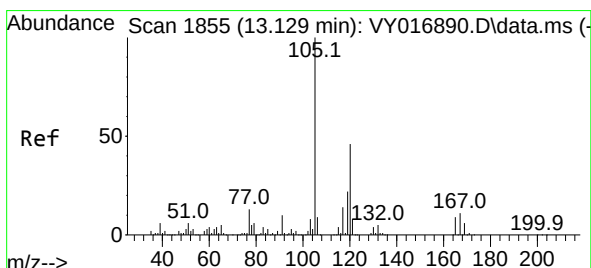
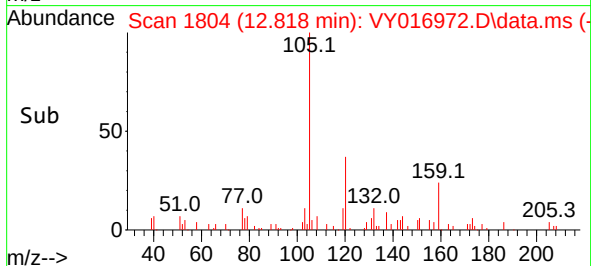
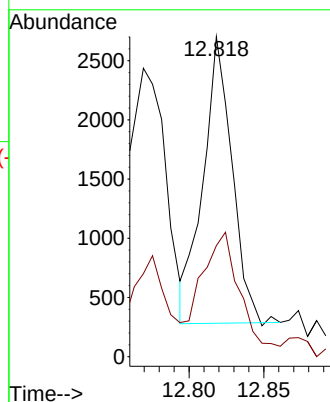
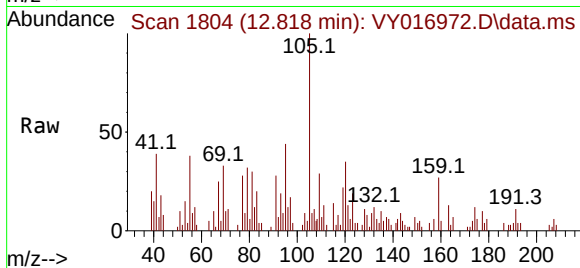
SP-C-GRABRE

Tgt Ion:105 Resp: 3267

Ion Ratio Lower Upper

105 100

120 49.2 24.3 72.8



#84

1,2,4-Trimethylbenzene

Concen: 15.289 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.000 min

Lab File: VY016972.D

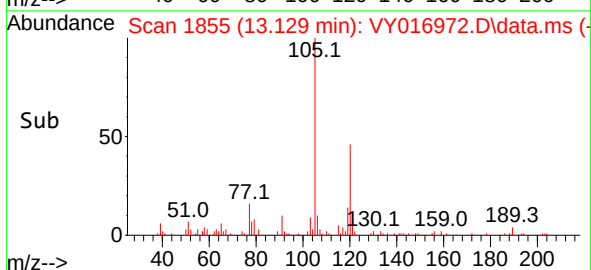
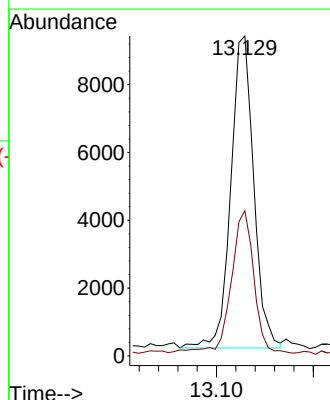
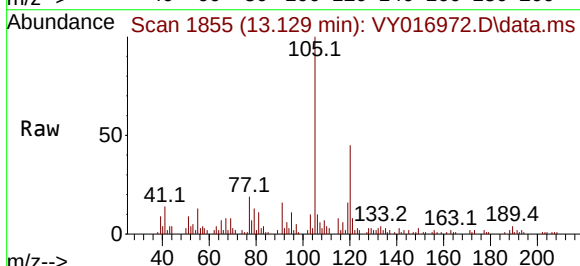
Acq: 10 Jan 2024 14:50

Tgt Ion:105 Resp: 15154

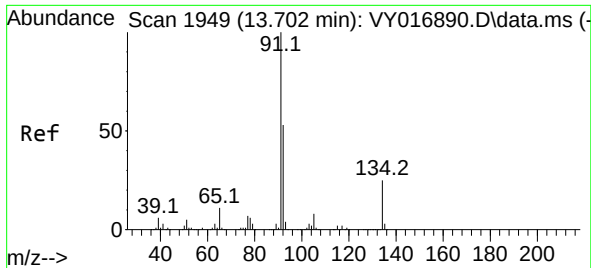
Ion Ratio Lower Upper

105 100

120 46.2 22.1 66.3







#89  
 n-Butylbenzene  
 Concen: 1.386 ug/l  
 RT: 13.702 min Scan# 1949  
 Delta R.T. 0.000 min  
 Lab File: VY016972.D  
 Acq: 10 Jan 2024 14:50

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SP-C-GRABRE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 1445  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 38.6  | 26.4  | 79.2  |
| 134      | 0.0   | 12.3  | 36.8  |

