

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081525\  
 Data File : VY023130.D  
 Acq On : 15 Aug 2025 17:08  
 Operator : SY/MD  
 Sample : Q2844-06  
 Misc : 3.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MOO-25-0223

Quant Time: Aug 18 02:31:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 554301   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.609  | 114  | 1041741  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 943599   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152  | 390457   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 314581   | 59.547   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 119.100% |
| 35) Dibromofluoromethane    | 7.628  | 113   | 325848   | 52.274   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 104.540% |
| 50) Toluene-d8              | 10.103 | 98    | 1262039  | 51.826   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 103.660% |
| 62) 4-Bromofluorobenzene    | 12.401 | 95    | 393560   | 50.254   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 100.500% |

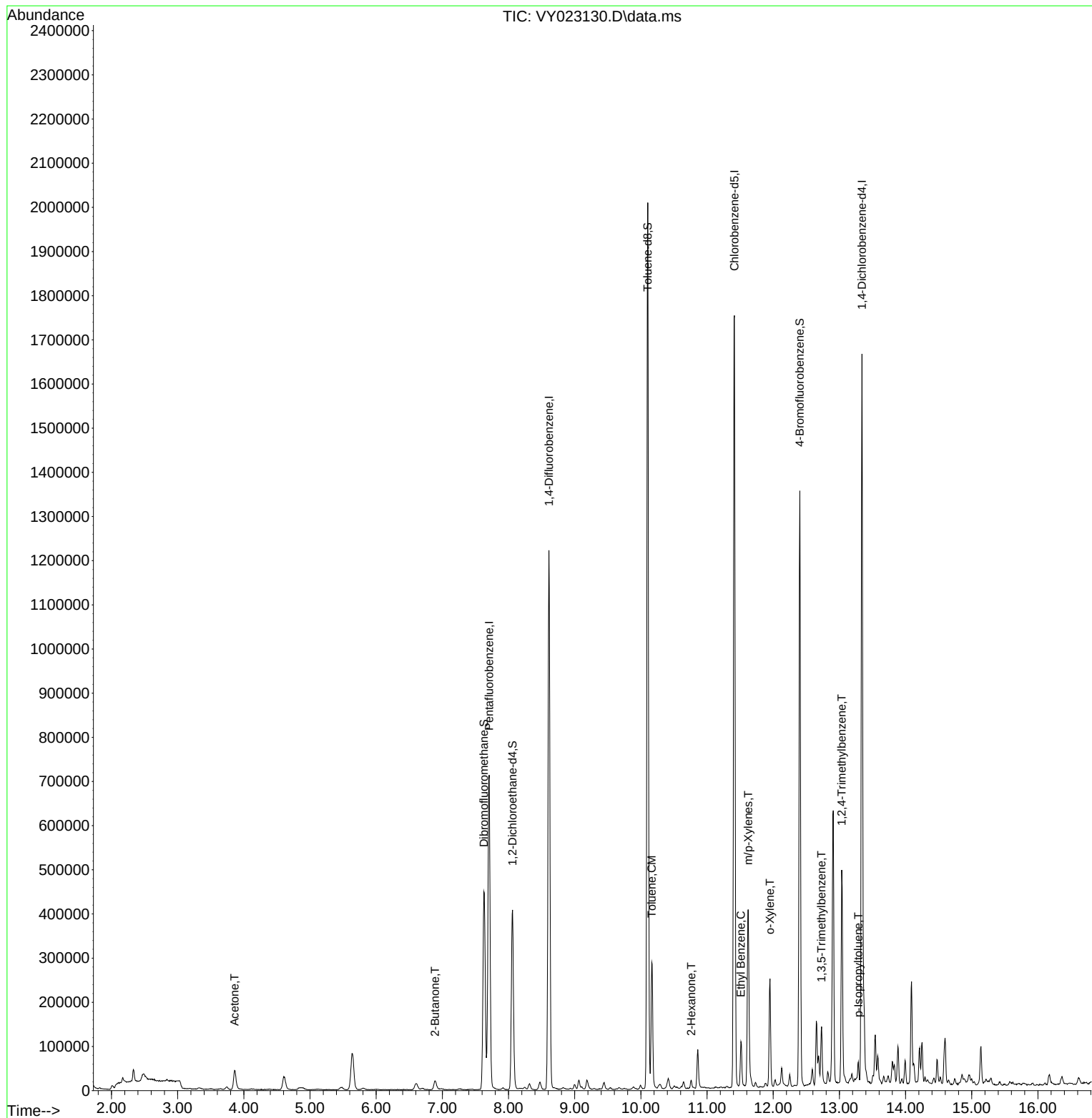
| Target Compounds           |        |     |        |        |      | Qvalue |
|----------------------------|--------|-----|--------|--------|------|--------|
| 16) Acetone                | 3.860  | 43  | 74248  | 64.873 | ug/l | 96     |
| 25) 2-Butanone             | 6.890  | 43  | 28459  | 18.283 | ug/l | 94     |
| 52) Toluene                | 10.164 | 92  | 121115 | 6.679  | ug/l | 99     |
| 59) 2-Hexanone             | 10.761 | 43  | 10982  | 3.975  | ug/l | 93     |
| 67) Ethyl Benzene          | 11.511 | 91  | 68979  | 1.969  | ug/l | 98     |
| 68) m/p-Xylenes            | 11.621 | 106 | 120332 | 8.796  | ug/l | 100    |
| 69) o-Xylene               | 11.950 | 106 | 62840  | 4.905  | ug/l | 96     |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 47959  | 2.153  | ug/l | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 250773 | 11.311 | ug/l | 100    |
| 86) p-Isopropyltoluene     | 13.285 | 119 | 25103  | 1.023  | ug/l | 95     |

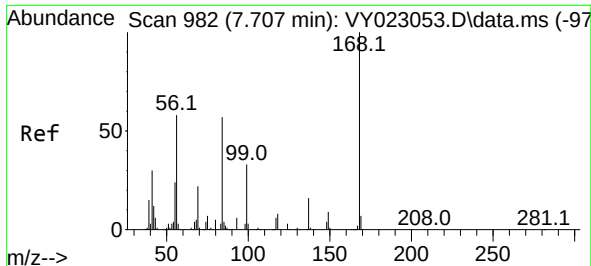
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081525\  
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Instrument :  
MSVOA\_Y  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 13 02:10:11 2025  
Response via : Initial Calibration

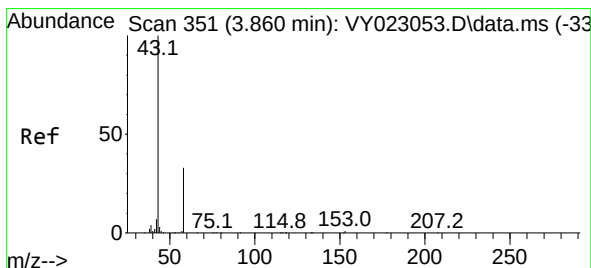
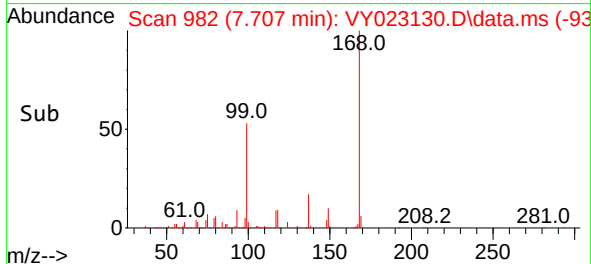
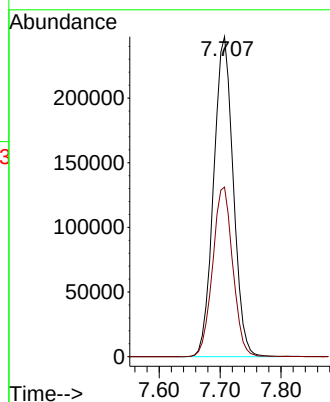
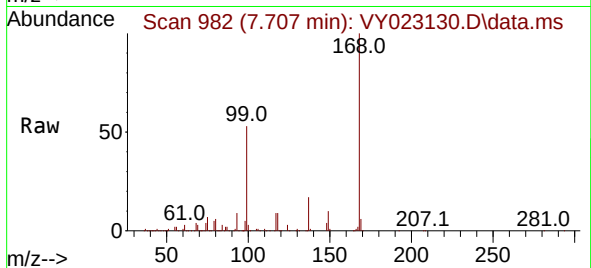




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

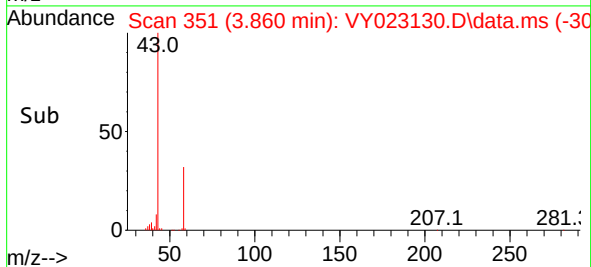
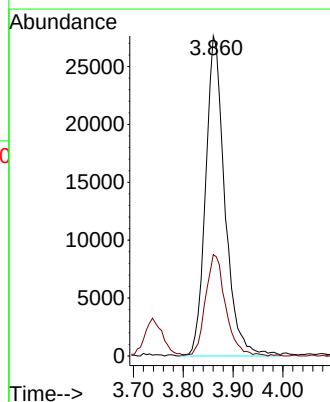
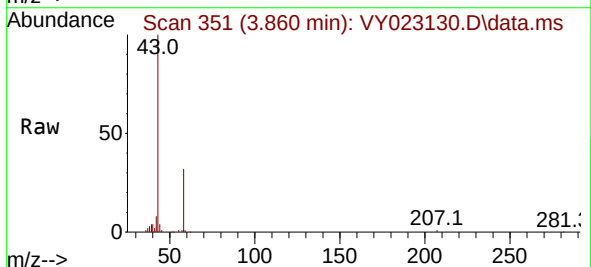
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MOO-25-0223

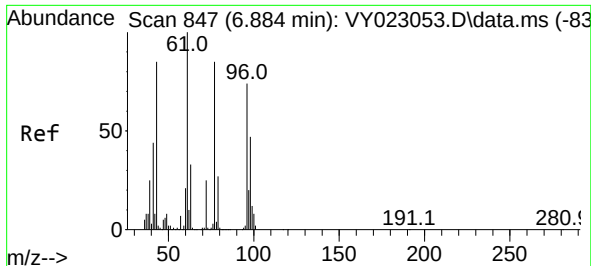
Tgt Ion:168 Resp: 554301  
Ion Ratio Lower Upper  
168 100  
99 53.0 42.8 64.2



#16  
Acetone  
Concen: 64.873 ug/l  
RT: 3.860 min Scan# 351  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Tgt Ion: 43 Resp: 74248  
Ion Ratio Lower Upper  
43 100  
58 31.5 27.1 40.7





#25

2-Butanone

Concen: 18.283 ug/l

RT: 6.890 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA\_Y

ClientSampleId :

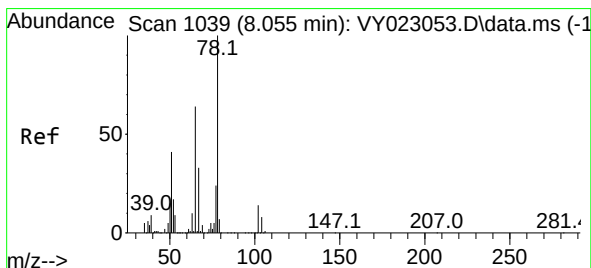
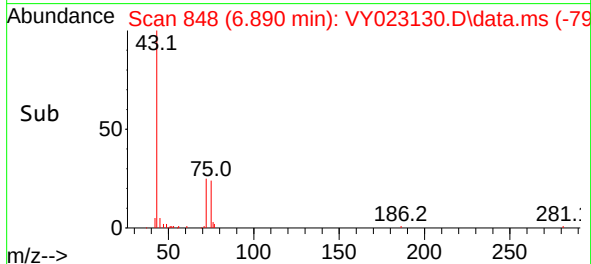
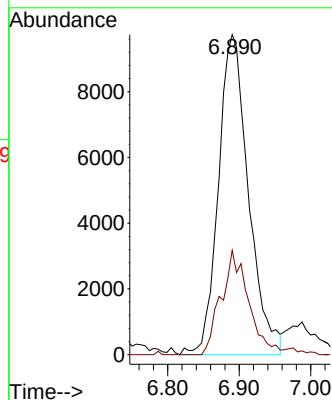
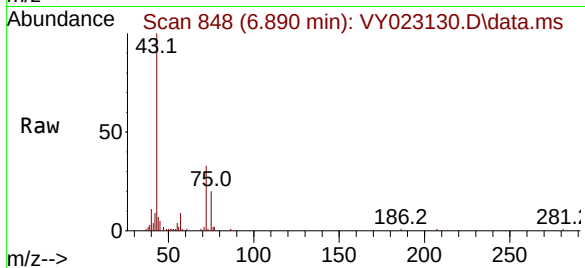
MOO-25-0223

Tgt Ion: 43 Resp: 28459

Ion Ratio Lower Upper

43 100

72 32.6 23.5 35.3



#33

1,2-Dichloroethane-d4

Concen: 59.547 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023130.D

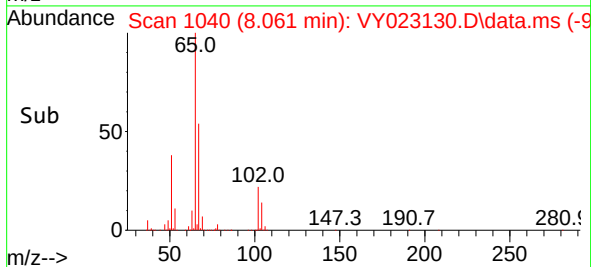
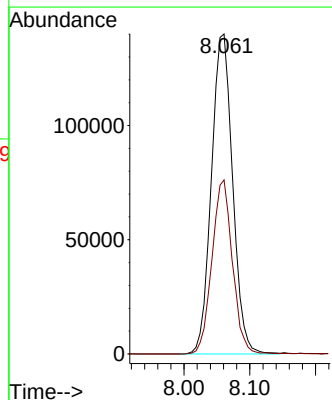
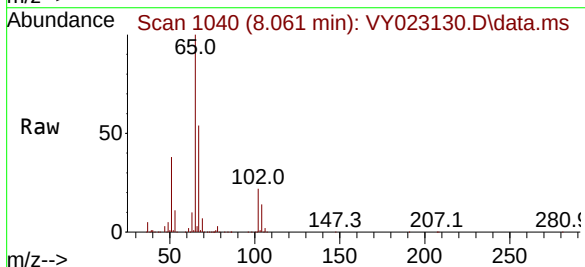
Acq: 15 Aug 2025 17:08

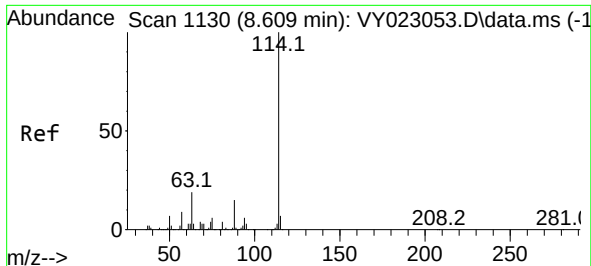
Tgt Ion: 65 Resp: 314581

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.8

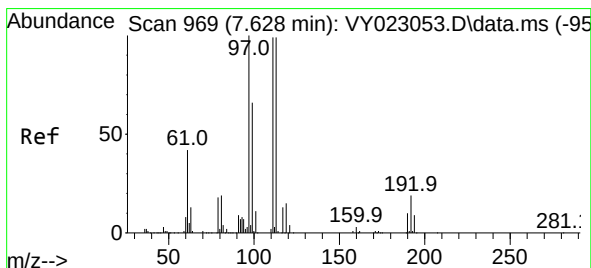
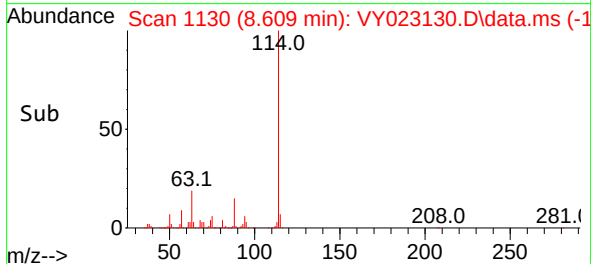
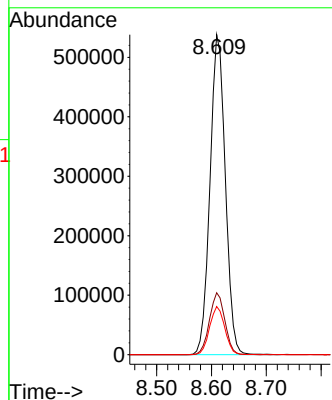
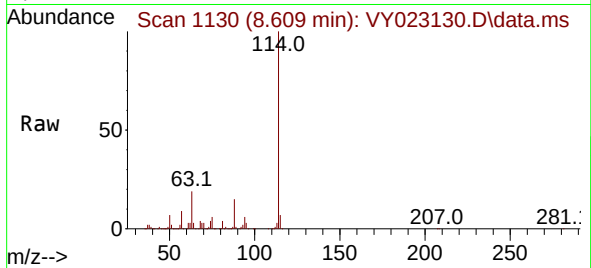




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.609 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

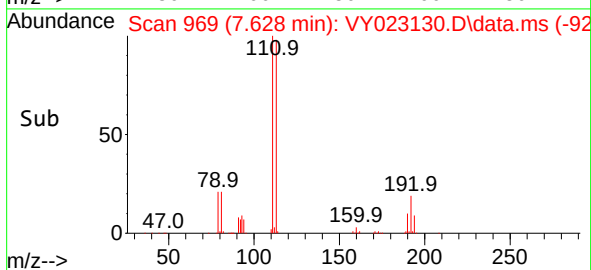
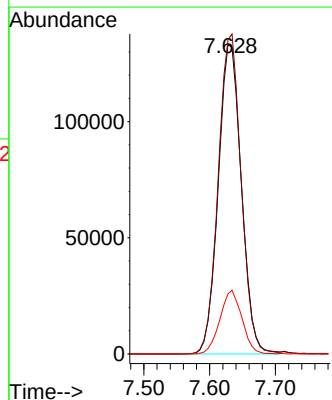
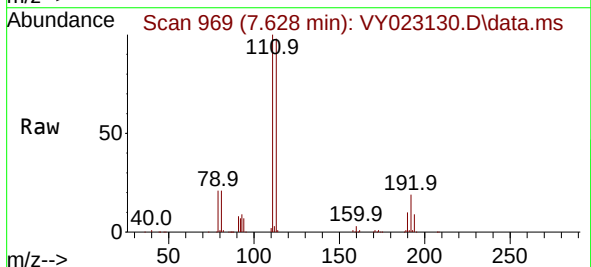
Instrument :  
MSVOA\_Y  
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MOO-25-0223

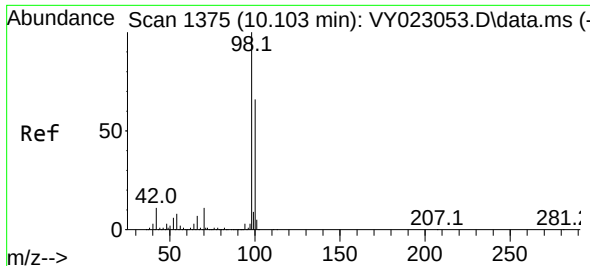
Tgt Ion:114 Resp: 1041741  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 38.4  
88 15.1 0.0 30.0



#35  
Dibromofluoromethane  
Concen: 52.274 ug/l  
RT: 7.628 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Tgt Ion:113 Resp: 325848  
Ion Ratio Lower Upper  
113 100  
111 102.9 81.1 121.7  
192 19.7 16.2 24.4

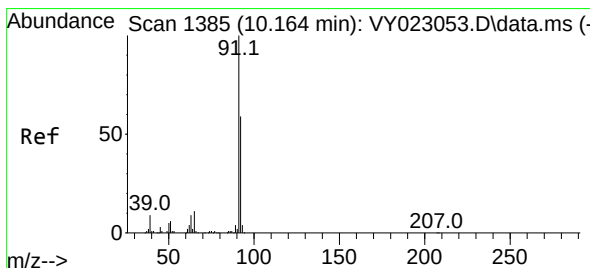
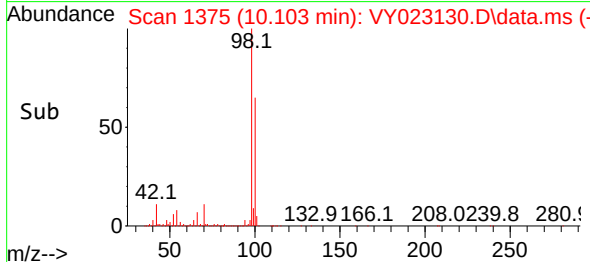
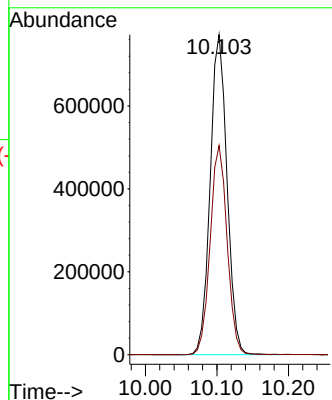
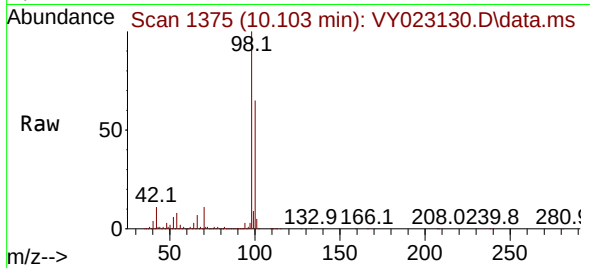




#50  
Toluene-d8  
Concen: 51.826 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

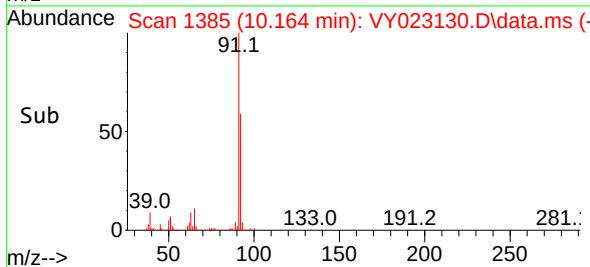
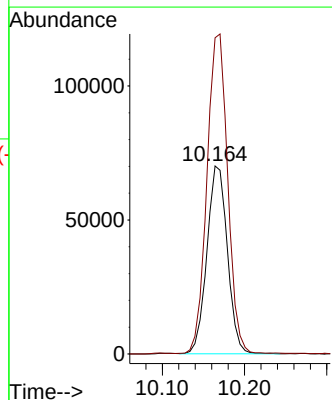
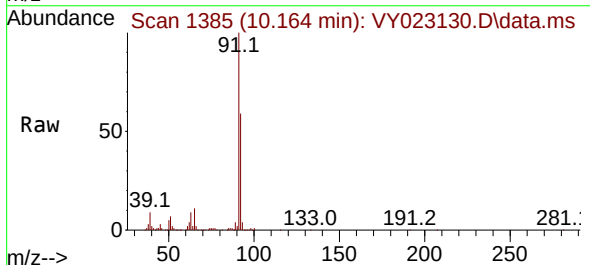
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MOO-25-0223

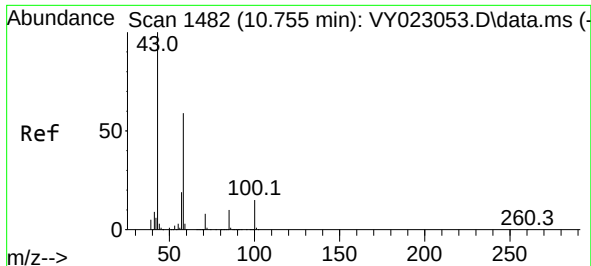
Tgt Ion: 98 Resp: 1262039  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.3 78.5



#52  
Toluene  
Concen: 6.679 ug/l  
RT: 10.164 min Scan# 1385  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Tgt Ion: 92 Resp: 121115  
Ion Ratio Lower Upper  
92 100  
91 172.2 136.4 204.6

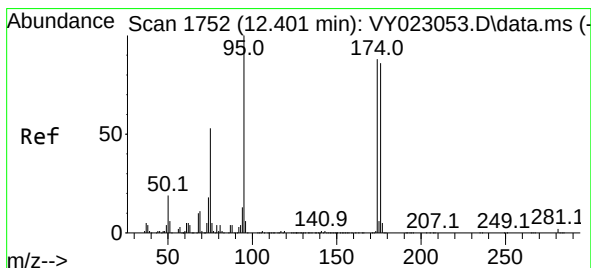
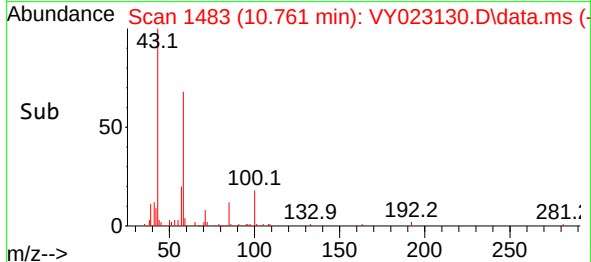
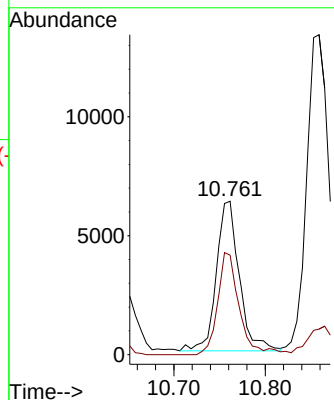
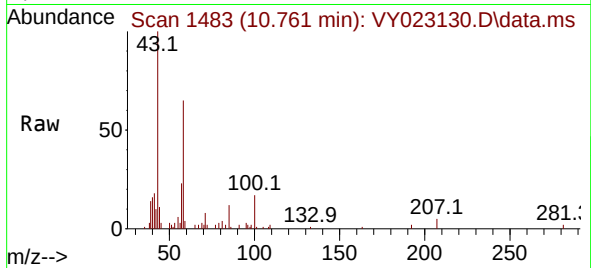




#59  
2-Hexanone  
Concen: 3.975 ug/l  
RT: 10.761 min Scan# 1482  
Delta R.T. 0.006 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

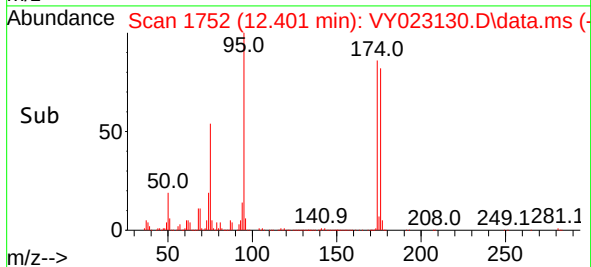
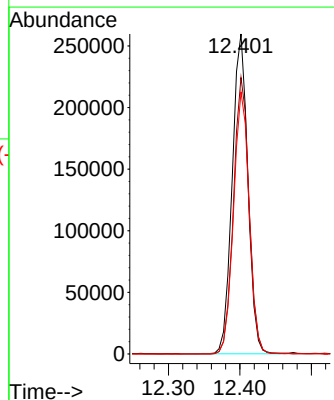
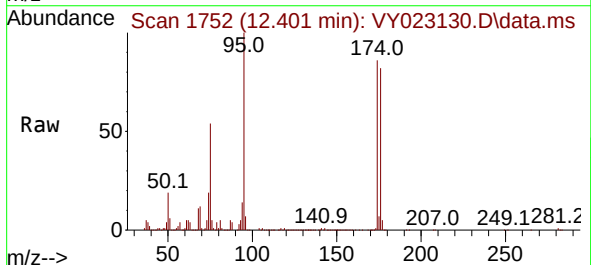
Instrument :  
MSVOA\_Y  
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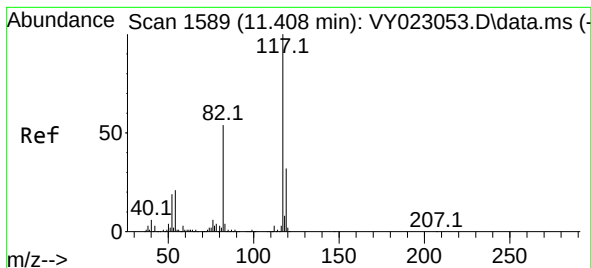
Tgt Ion: 43 Resp: 10982  
Ion Ratio Lower Upper  
43 100  
58 64.3 29.5 88.5



#62  
4-Bromofluorobenzene  
Concen: 50.254 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Tgt Ion: 95 Resp: 393560  
Ion Ratio Lower Upper  
95 100  
174 86.4 0.0 171.6  
176 82.1 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA\_Y

ClientSampleId :

MOO-25-0223

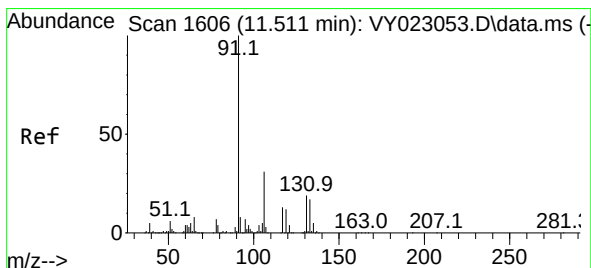
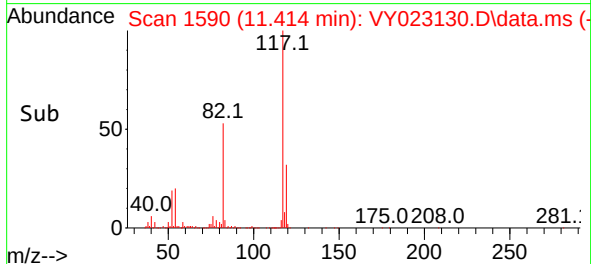
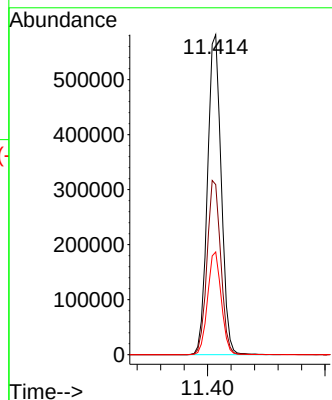
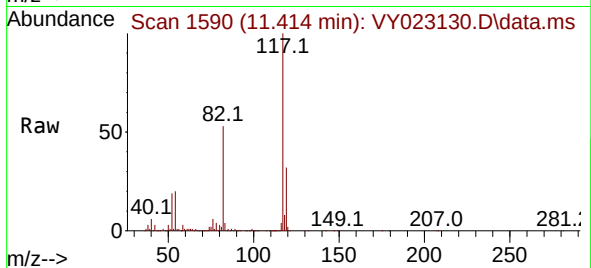
Tgt Ion:117 Resp: 943599

Ion Ratio Lower Upper

117 100

82 53.2 43.4 65.0

119 32.1 25.6 38.4



#67

Ethyl Benzene

Concen: 1.969 ug/l

RT: 11.511 min Scan# 1606

Delta R.T. 0.000 min

Lab File: VY023130.D

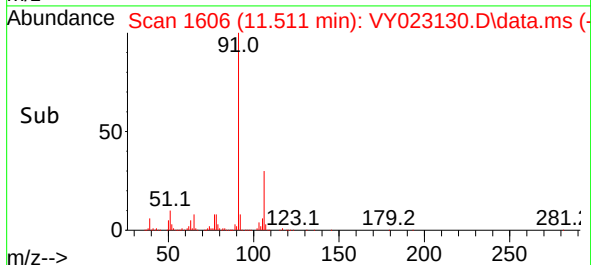
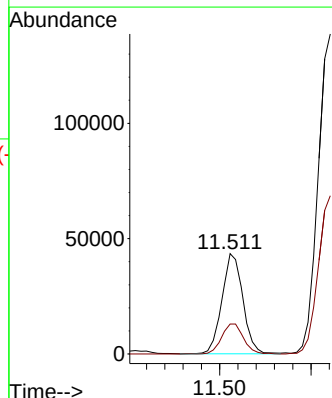
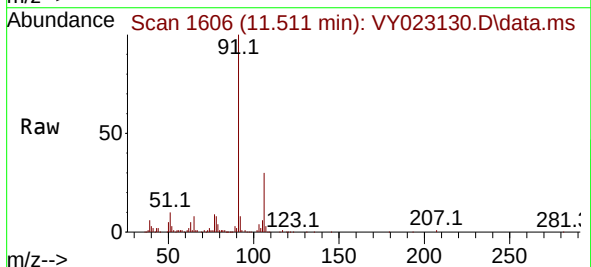
Acq: 15 Aug 2025 17:08

Tgt Ion: 91 Resp: 68979

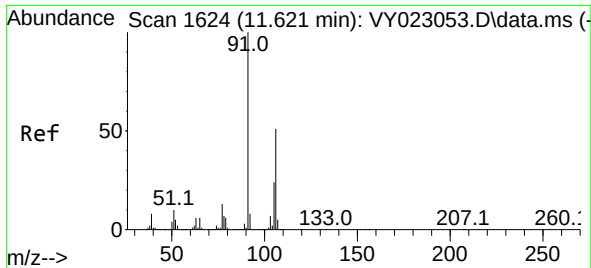
Ion Ratio Lower Upper

91 100

106 30.0 25.0 37.4



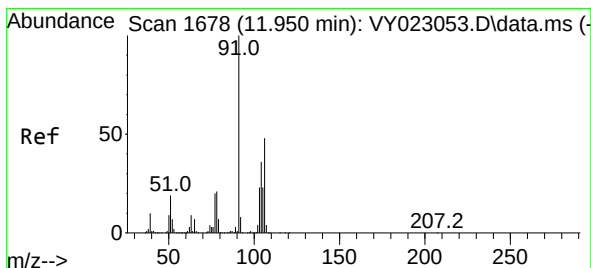
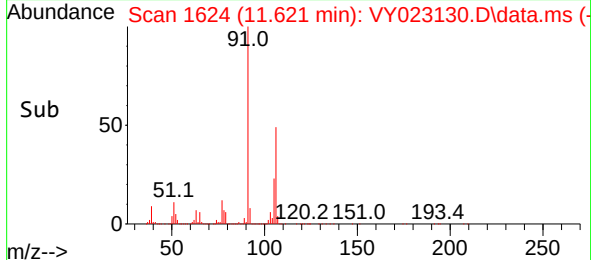
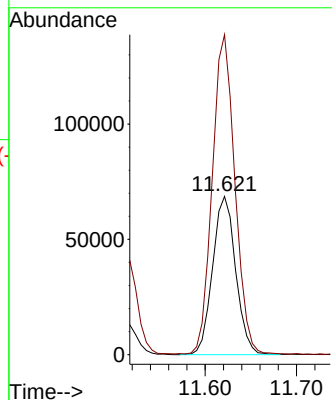
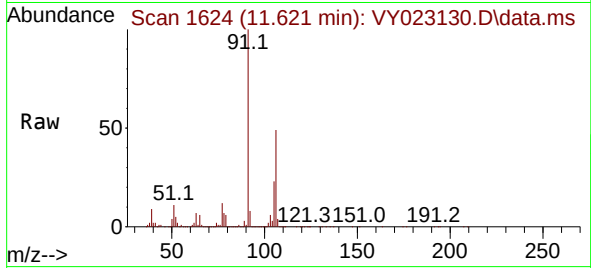




#68  
m/p-Xylenes  
Concen: 8.796 ug/l  
RT: 11.621 min Scan# 1624  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

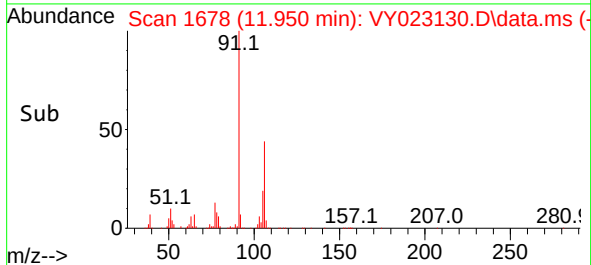
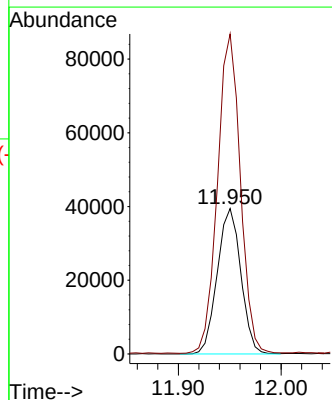
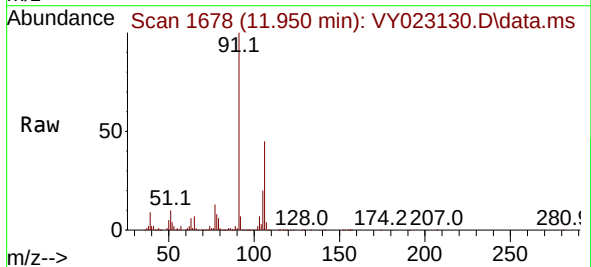
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MOO-25-0223

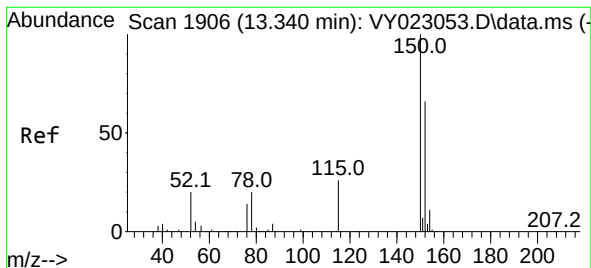
Tgt Ion:106 Resp: 120332  
Ion Ratio Lower Upper  
106 100  
91 198.2 158.6 238.0



#69  
o-Xylene  
Concen: 4.905 ug/l  
RT: 11.950 min Scan# 1678  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Tgt Ion:106 Resp: 62840  
Ion Ratio Lower Upper  
106 100  
91 212.5 103.2 309.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023130.D

Acq: 15 Aug 2025 17:08

Instrument :

MSVOA\_Y

ClientSampleId :

MOO-25-0223

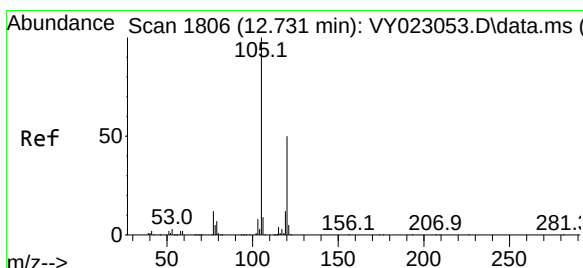
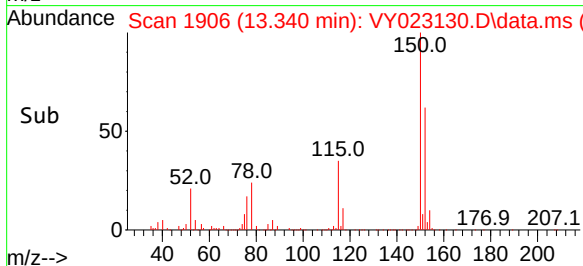
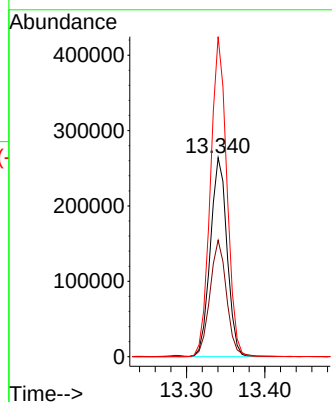
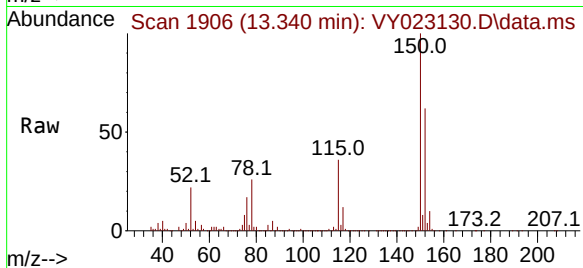
Tgt Ion:152 Resp: 390457

Ion Ratio Lower Upper

152 100

115 58.2 28.2 84.6

150 157.9 0.0 348.0



#80

1,3,5-Trimethylbenzene

Concen: 2.153 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VY023130.D

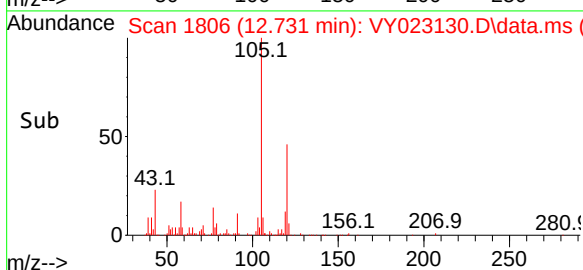
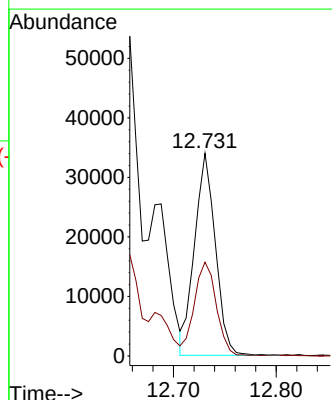
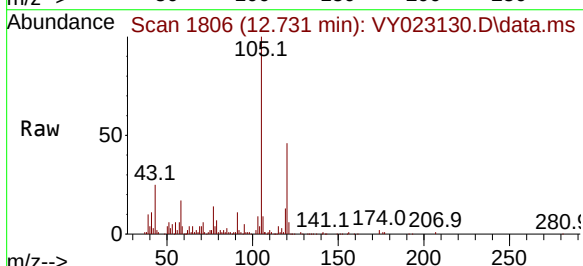
Acq: 15 Aug 2025 17:08

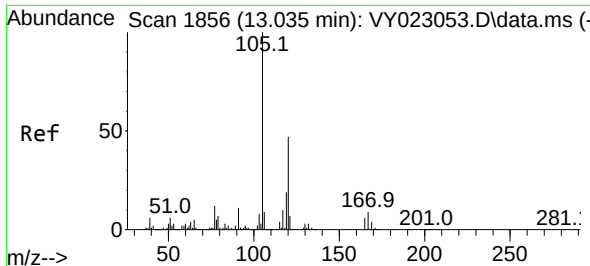
Tgt Ion:105 Resp: 47959

Ion Ratio Lower Upper

105 100

120 48.7 24.8 74.4

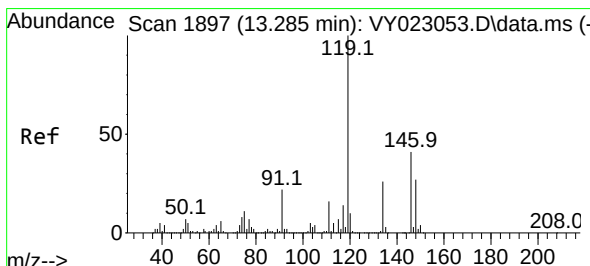
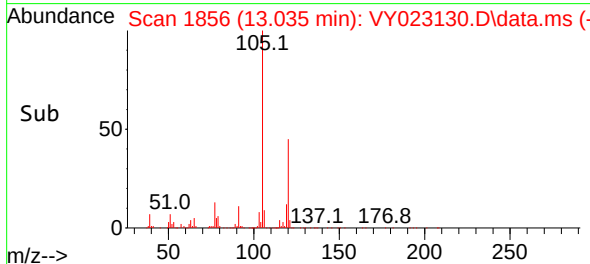
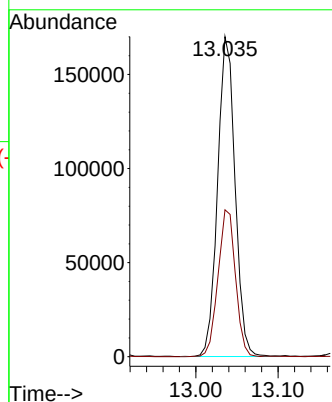
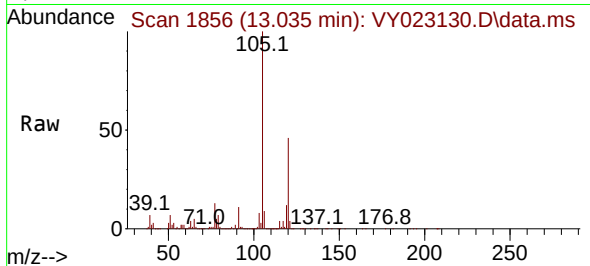




#84  
1,2,4-Trimethylbenzene  
Concen: 11.311 ug/l  
RT: 13.035 min Scan# 1856  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MOO-25-0223

Tgt Ion:105 Resp: 250773  
Ion Ratio Lower Upper  
105 100  
120 46.2 23.0 69.0



#86  
p-Isopropyltoluene  
Concen: 1.023 ug/l  
RT: 13.285 min Scan# 1897  
Delta R.T. 0.000 min  
Lab File: VY023130.D  
Acq: 15 Aug 2025 17:08

Tgt Ion:119 Resp: 25103  
Ion Ratio Lower Upper  
119 100  
134 27.1 13.2 39.6  
91 26.7 11.3 33.8

