

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082525\  
 Data File : VY023208.D  
 Acq On : 25 Aug 2025 12:59  
 Operator : SY/MD  
 Sample : Q2915-03  
 Misc : 5.51g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 25 23:50:00 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

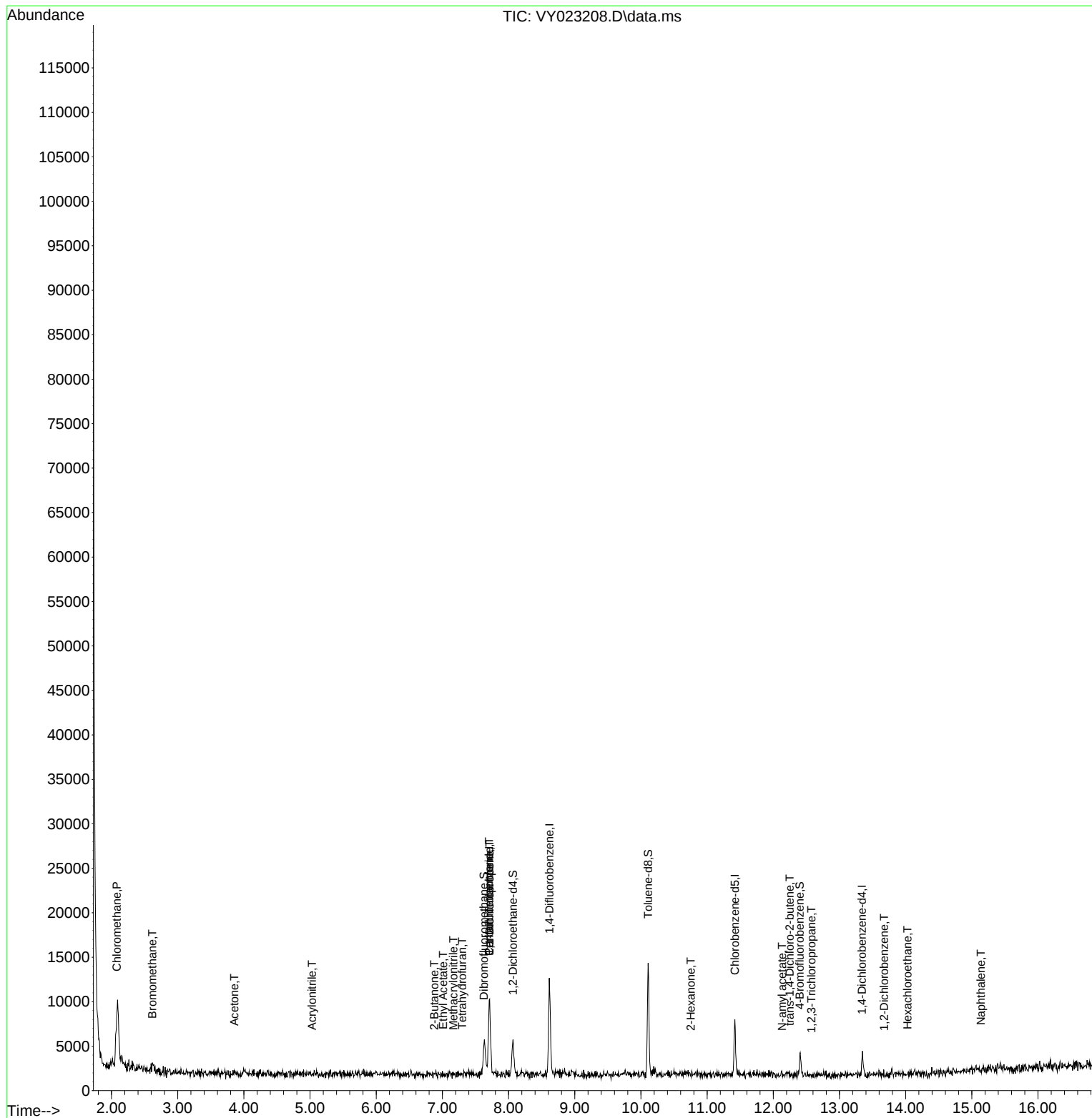
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 7162     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.615  | 114   | 9208     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 3801     | 50.000   | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4    | 13.340 | 152   | 734      | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.067  | 65    | 2929     | 42.910   | ug/l  | 0.01     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =     | 85.820%  |
| 35) Dibromofluoromethane      | 7.628  | 113   | 2981     | 54.104   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =     | 108.200% |
| 50) Toluene-d8                | 10.109 | 98    | 8644     | 40.159   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | =     | 80.320%  |
| 62) 4-Bromofluorobenzene      | 12.401 | 95    | 808      | 11.673   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | =     | 23.340%# |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 3) Chloromethane              | 2.080  | 50    | 432      | 4.562    | ug/l  | # 82     |
| 5) Bromomethane               | 2.616  | 94    | 477      | 5.457    | ug/l  | 99       |
| 15) Acrylonitrile             | 5.031  | 53    | 40       | 2.613    | ug/l  | # 18     |
| 16) Acetone                   | 3.854  | 43    | 98       | 6.627    | ug/l  | # 41     |
| 25) 2-Butanone                | 6.878  | 43    | 55       | 2.735    | ug/l  | # 45     |
| 29) Tetrahydrofuran           | 7.298  | 42    | 20       | 1.604    | ug/l  | # 29     |
| 36) 1,1-Dichloropropene       | 7.713  | 75    | 632      | 7.718    | ug/l  | # 41     |
| 37) Ethyl Acetate             | 7.012  | 43    | 36       | 1.047    | ug/l  | # 67     |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 400      | 4.498    | ug/l  | # 13     |
| 41) Methacrylonitrile         | 7.164  | 41    | 25       | 1.259    | ug/l  | # 1      |
| 59) 2-Hexanone                | 10.755 | 43    | 55       | 2.252    | ug/l  | # 21     |
| 74) N-amyl acetate            | 12.133 | 43    | 46       | 4.187    | ug/l  | # 40     |
| 76) 1,2,3-Trichloropropane    | 12.578 | 75    | 49       | 6.917    | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.249 | 75    | 23       | 7.859    | ug/l  | # 14     |
| 90) Hexachloroethane          | 14.029 | 117   | 19       | 2.013    | ug/l  | # 11     |
| 91) 1,2-Dichlorobenzene       | 13.675 | 146   | 58       | 2.713    | ug/l  | # 24     |
| 95) Naphthalene               | 15.139 | 128   | 46       | 2.134    | ug/l  | # 69     |
| -----                         |        |       |          |          |       |          |

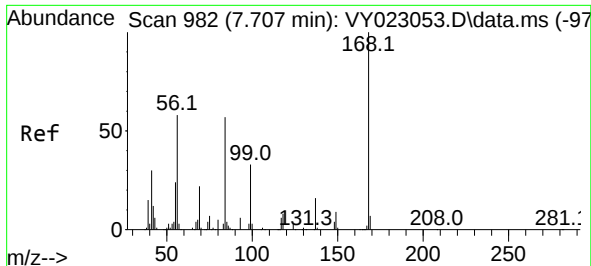
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082525\  
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Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Aug 25 23:50:00 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

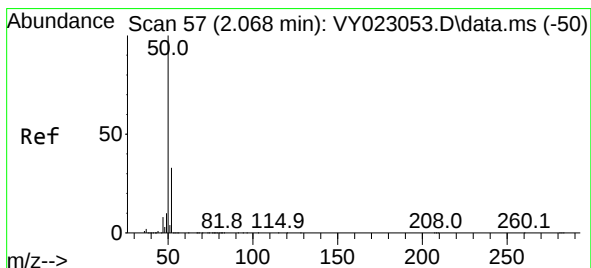
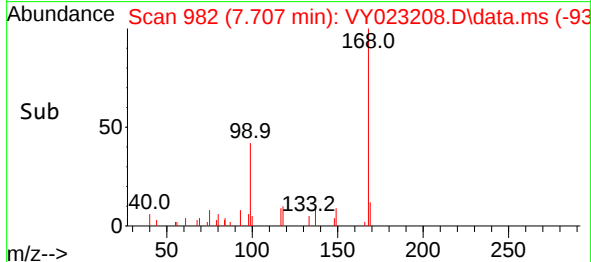
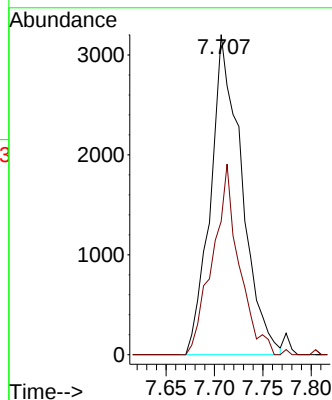
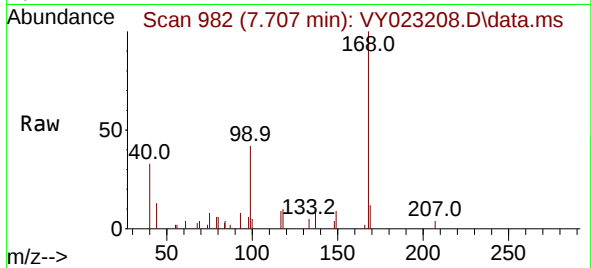




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

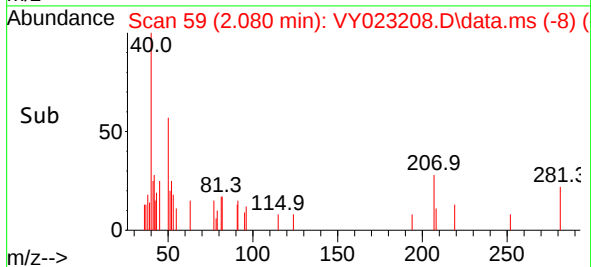
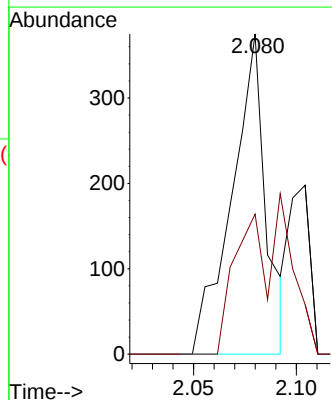
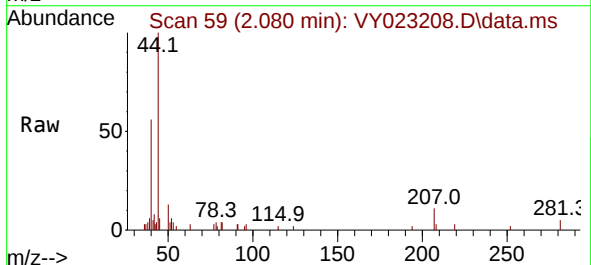
Instrument :  
MSVOA\_Y  
ClientSampleId :

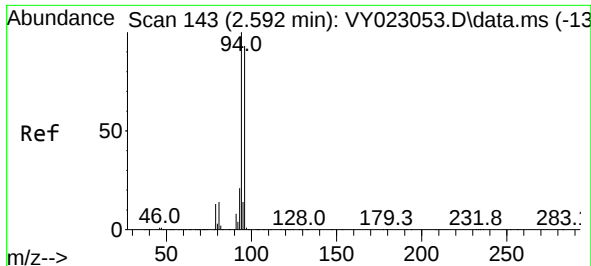
Tgt Ion:168 Resp: 7162  
Ion Ratio Lower Upper  
168 100  
99 41.6 42.8 64.2#



#3  
Chloromethane  
Concen: 4.562 ug/l  
RT: 2.080 min Scan# 59  
Delta R.T. 0.012 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

Tgt Ion: 50 Resp: 432  
Ion Ratio Lower Upper  
50 100  
52 43.7 26.7 40.1#

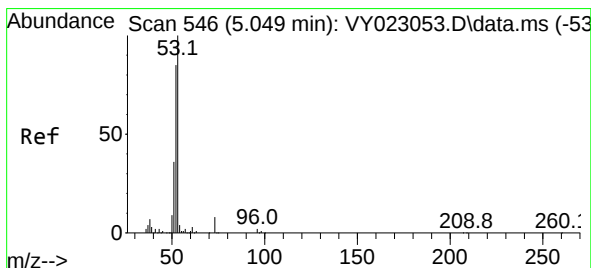
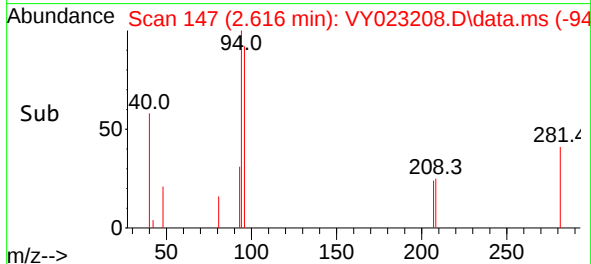
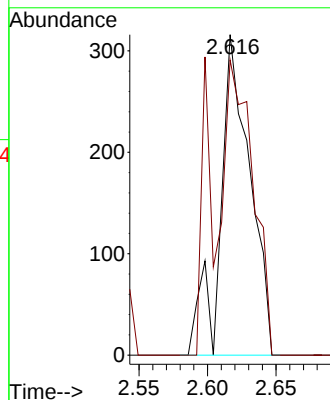
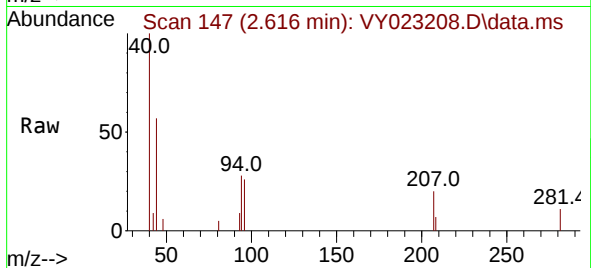




#5  
Bromomethane  
Concen: 5.457 ug/l  
RT: 2.616 min Scan# 14  
Delta R.T. 0.024 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

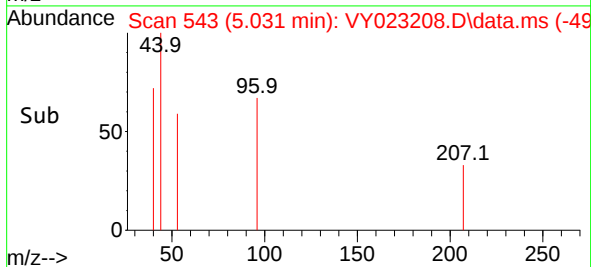
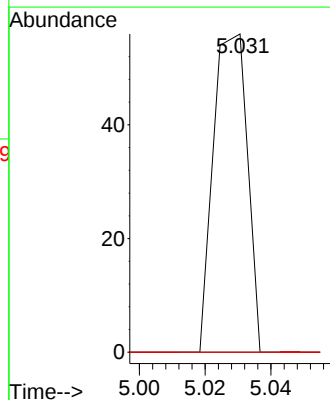
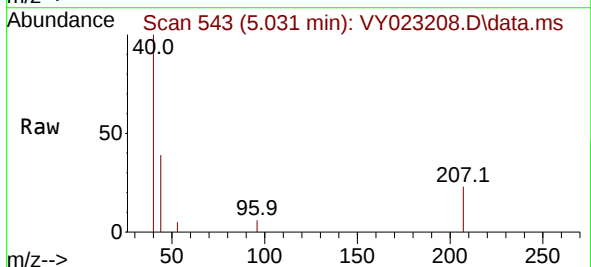
Instrument :  
MSVOA\_Y  
ClientSampleId :

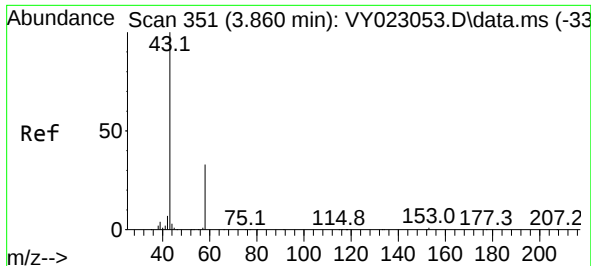
Tgt Ion: 94 Resp: 477  
Ion Ratio Lower Upper  
94 100  
96 92.1 74.6 112.0



#15  
Acrylonitrile  
Concen: 2.613 ug/l  
RT: 5.031 min Scan# 543  
Delta R.T. -0.018 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

Tgt Ion: 53 Resp: 40  
Ion Ratio Lower Upper  
53 100  
52 0.0 65.3 97.9#  
51 0.0 29.5 44.3#

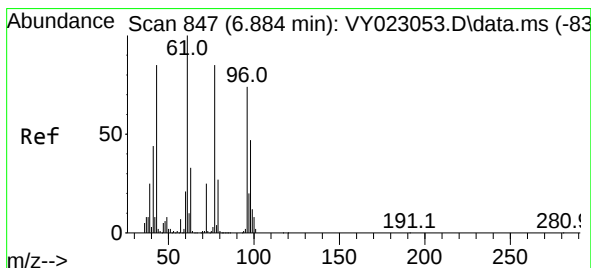
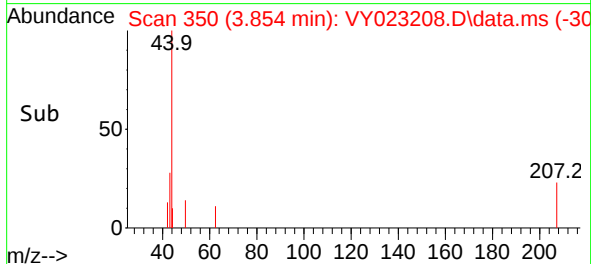
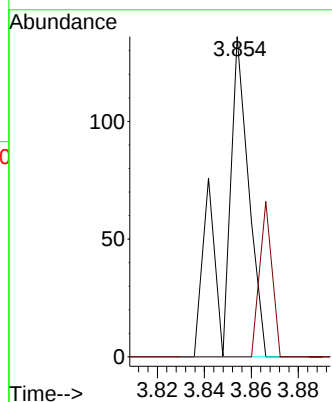
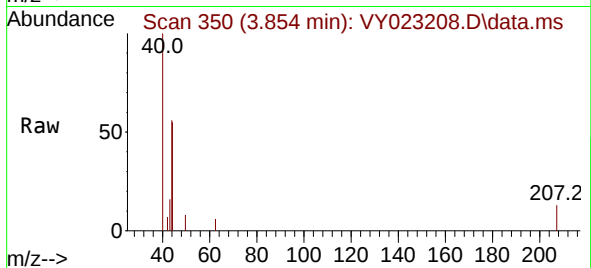




#16  
Acetone  
Concen: 6.627 ug/l  
RT: 3.854 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

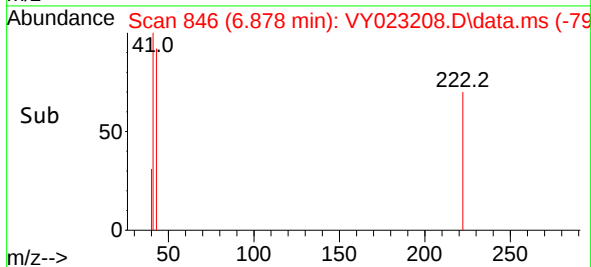
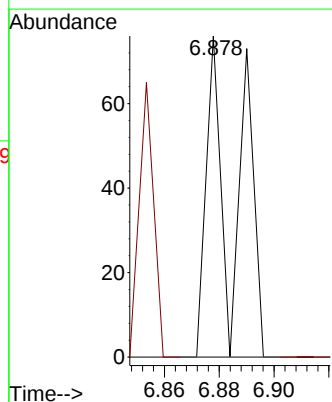
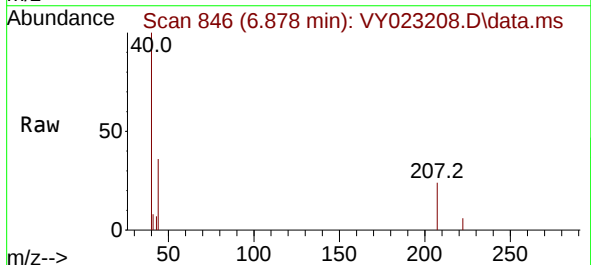
Instrument :  
MSVOA\_Y  
ClientSampleId :

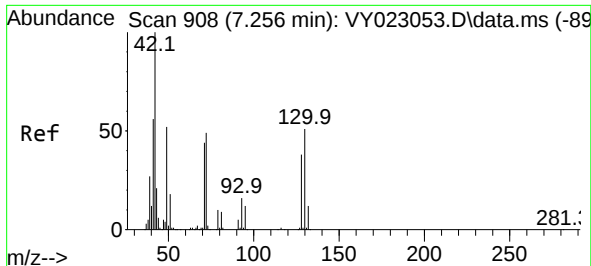
Tgt Ion: 43 Resp: 98  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.1 40.7#



#25  
2-Butanone  
Concen: 2.735 ug/l  
RT: 6.878 min Scan# 846  
Delta R.T. -0.006 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.5 35.3#





#29

Tetrahydrofuran

Concen: 1.604 ug/l

RT: 7.298 min Scan# 915

Delta R.T. 0.042 min

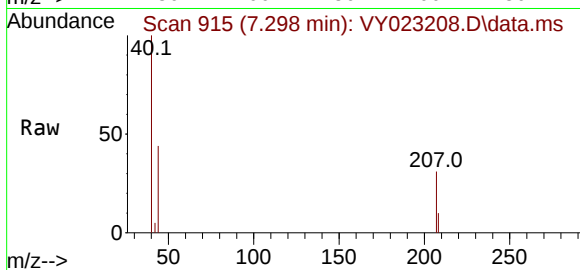
Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

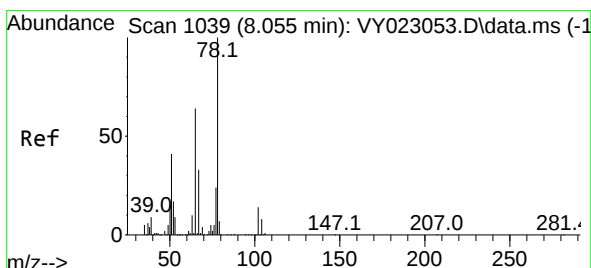
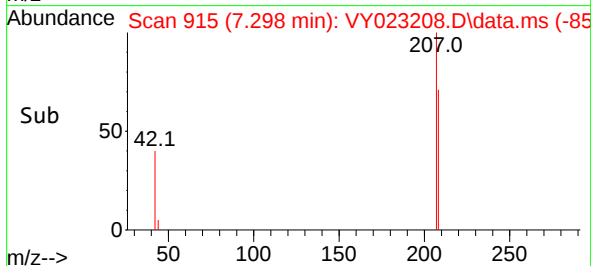
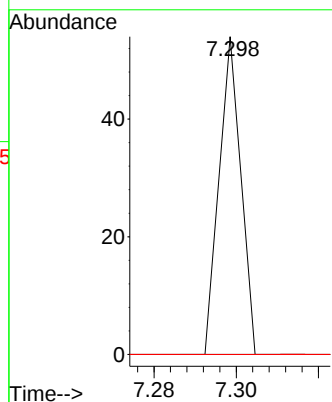
Instrument :

MSVOA\_Y

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 39.4  | 59.2# |
| 71       | 0.0   | 36.5  | 54.7# |



#33

1,2-Dichloroethane-d4

Concen: 42.910 ug/l

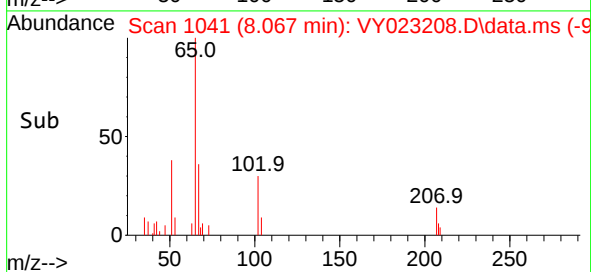
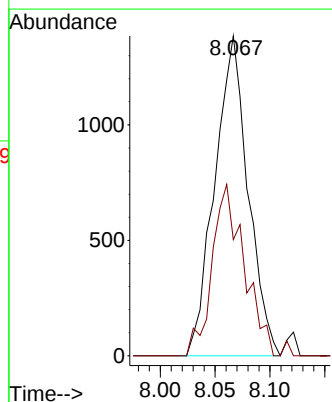
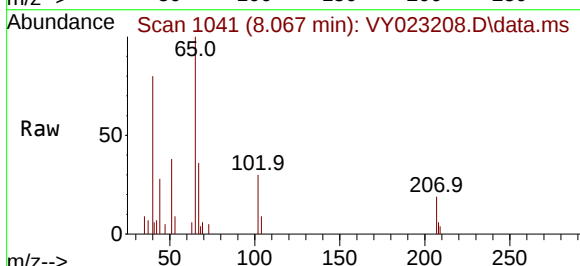
RT: 8.067 min Scan# 1041

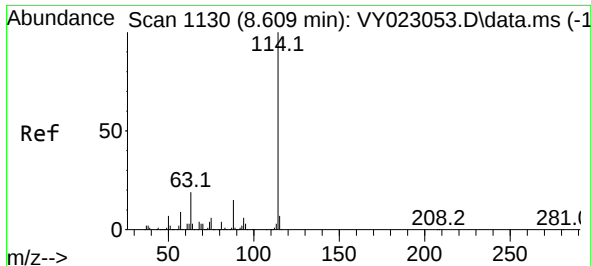
Delta R.T. 0.012 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 2929  |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 51.6  | 0.0   | 106.8 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023208.D

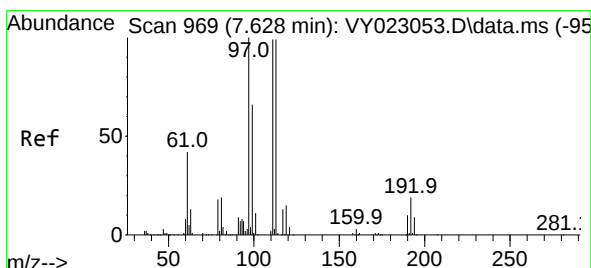
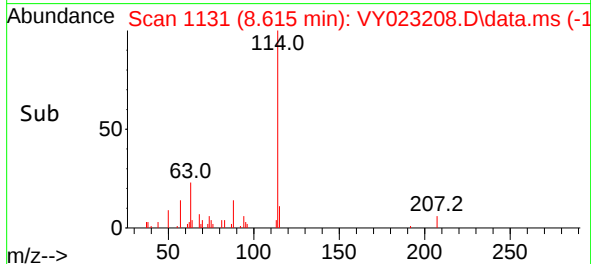
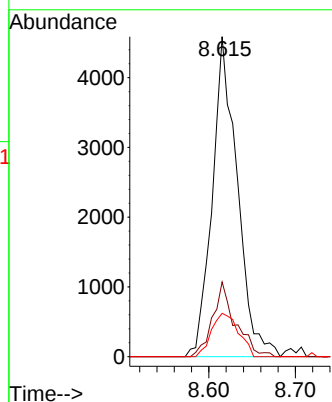
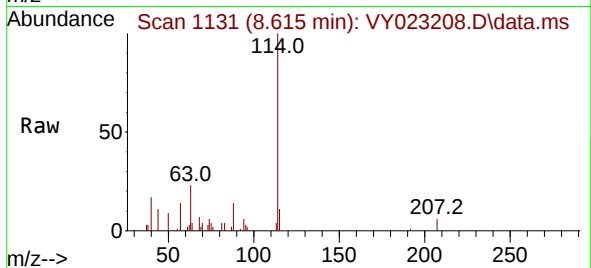
Acq: 25 Aug 2025 12:59

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 9208     |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 23.4  | 0.0 38.4 |
| 88          | 13.6  | 0.0 30.0 |



#35

Dibromofluoromethane

Concen: 54.104 ug/l

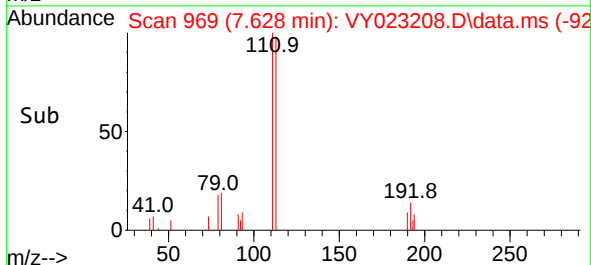
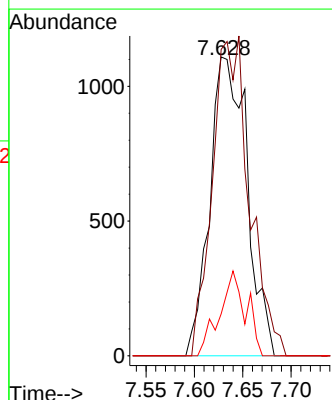
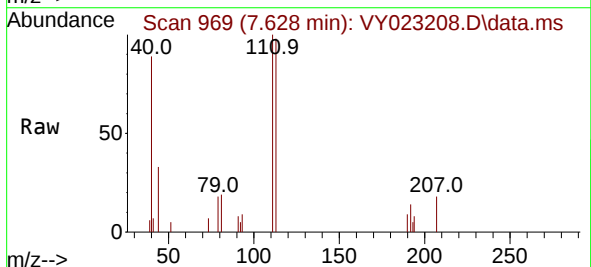
RT: 7.628 min Scan# 969

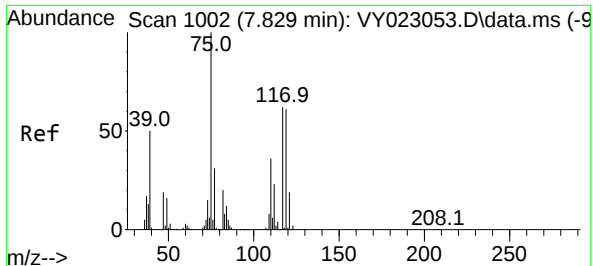
Delta R.T. -0.000 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 2981       |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 105.2 | 81.1 121.7 |
| 192         | 20.2  | 16.2 24.4  |





#36

1,1-Dichloropropene

Concen: 7.718 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.116 min

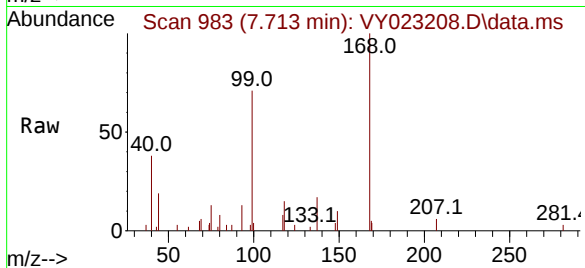
Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

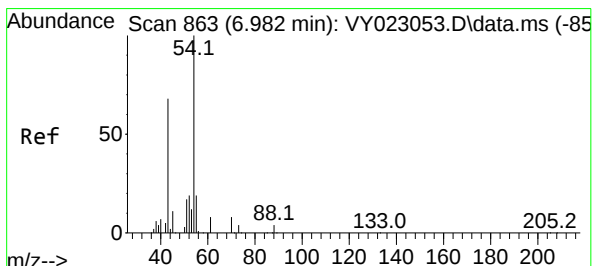
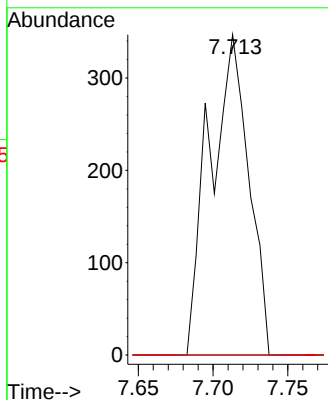
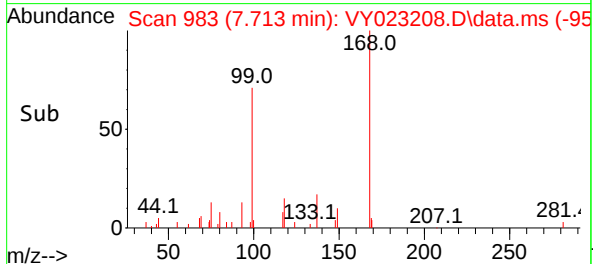
Instrument :

MSVOA\_Y

ClientSampleId :



|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 632   |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 0.0     | 18.1 54.4#  |
| 77 0.0      | 24.6 37.0#  |



#37

Ethyl Acetate

Concen: 1.047 ug/l

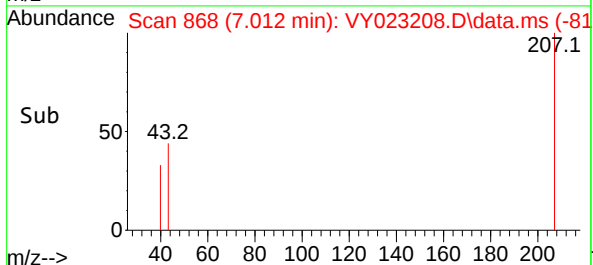
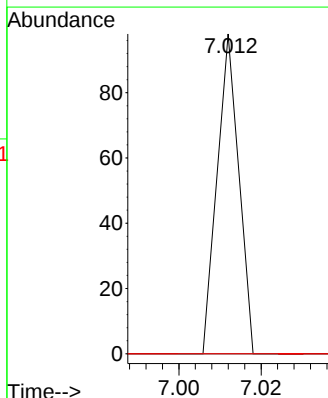
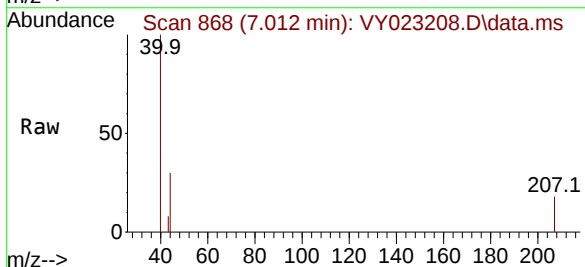
RT: 7.012 min Scan# 868

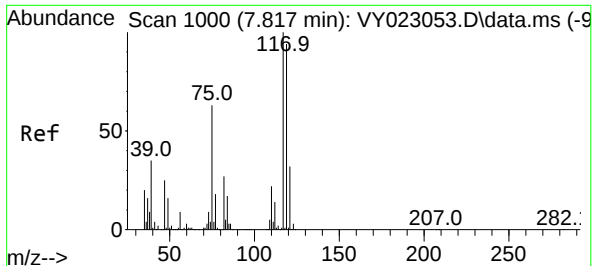
Delta R.T. 0.030 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

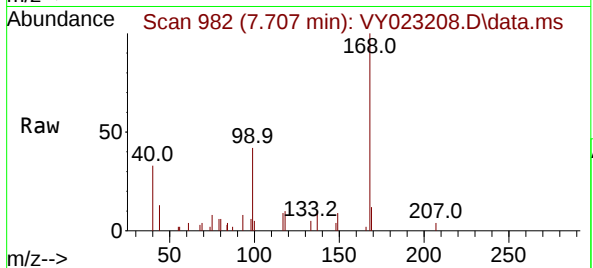
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 36    |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 0.0      | 11.9 17.9#  |
| 70 0.0      | 8.8 13.2#   |



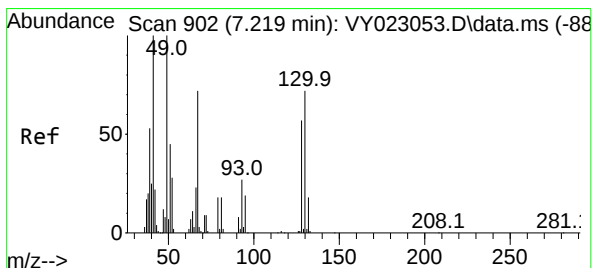
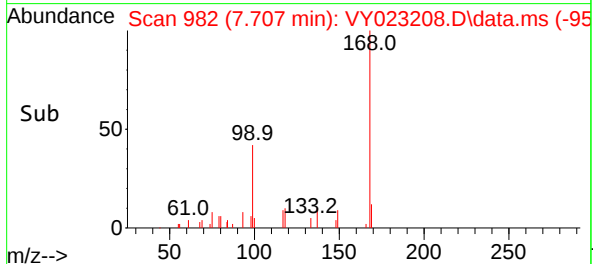
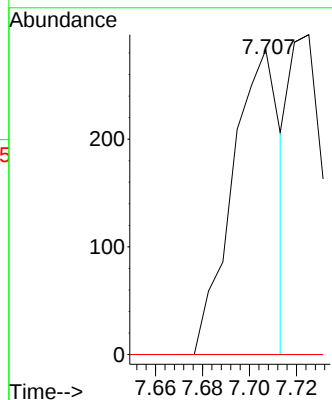


#38  
Carbon Tetrachloride  
Concen: 4.498 ug/l  
RT: 7.707 min Scan# 911  
Delta R.T. -0.110 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

Instrument :  
MSVOA\_Y  
ClientSampleId :

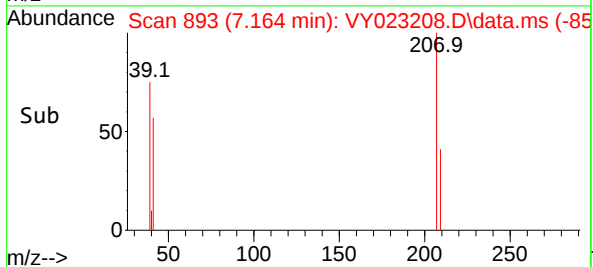
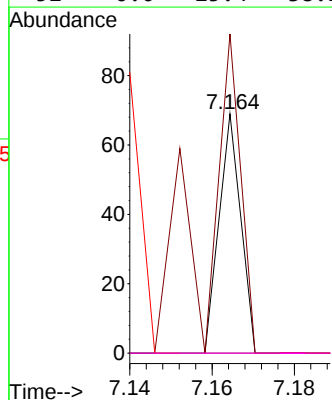
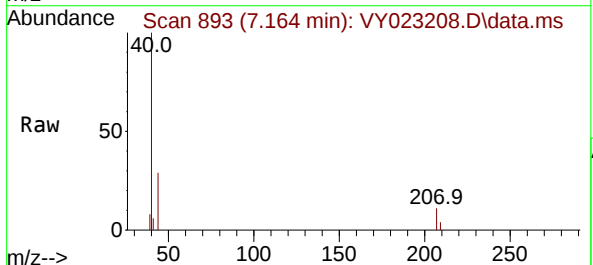


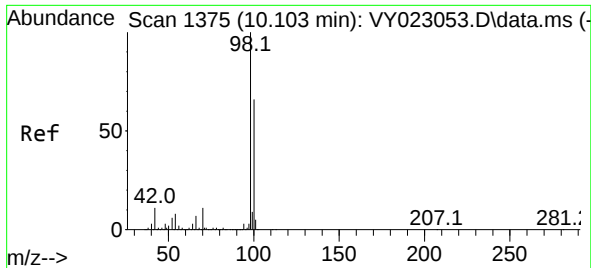
Tgt Ion: 117 Resp: 400  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.6 113.4#  
121 0.0 25.8 38.8#



#41  
Methacrylonitrile  
Concen: 1.259 ug/l  
RT: 7.164 min Scan# 893  
Delta R.T. -0.055 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

Tgt Ion: 41 Resp: 25  
Ion Ratio Lower Upper  
41 100  
39 220.0 43.4 65.2#  
67 0.0 63.6 95.4#  
52 0.0 25.4 38.2#

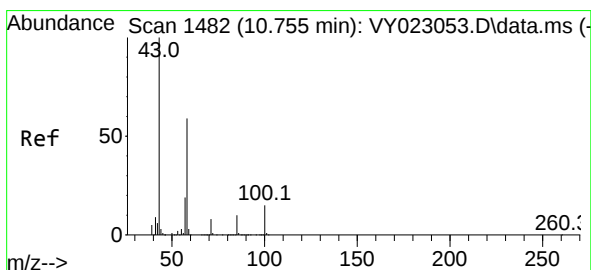
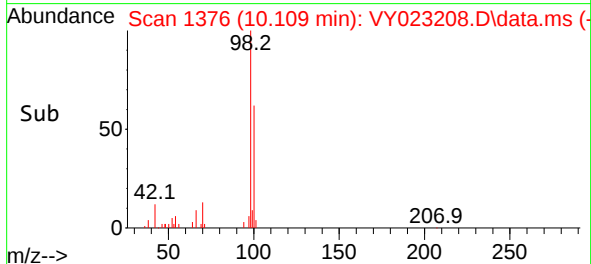
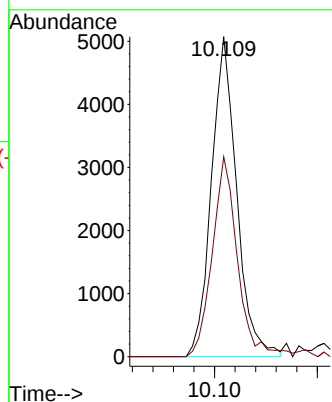
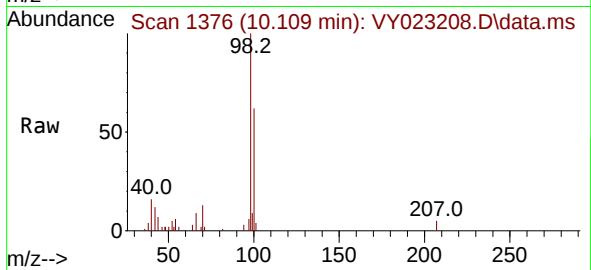




#50  
Toluene-d8  
Concen: 40.159 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

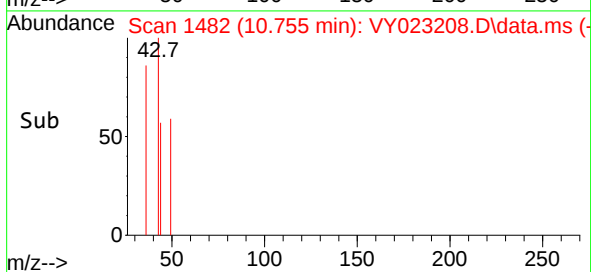
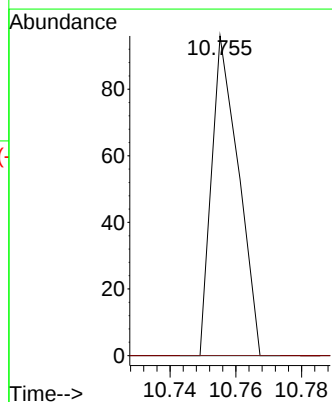
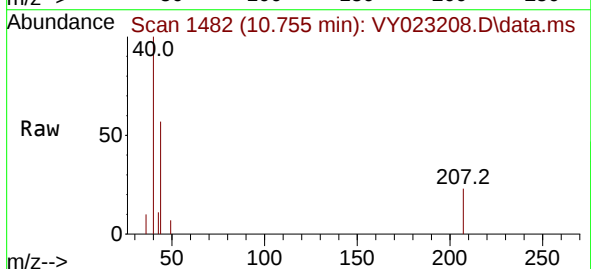
Instrument :  
MSVOA\_Y  
ClientSampleId :

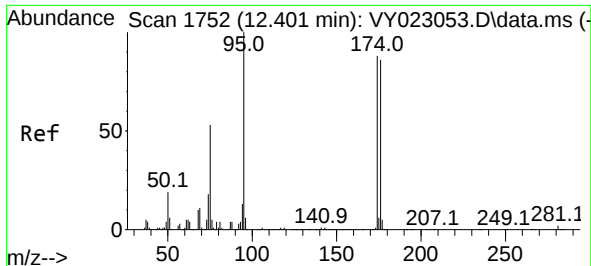
Tgt Ion: 98 Resp: 8644  
Ion Ratio Lower Upper  
98 100  
100 62.4 52.3 78.5



#59  
2-Hexanone  
Concen: 2.252 ug/l  
RT: 10.755 min Scan# 1482  
Delta R.T. -0.000 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

Tgt Ion: 43 Resp: 55  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.5 88.5#

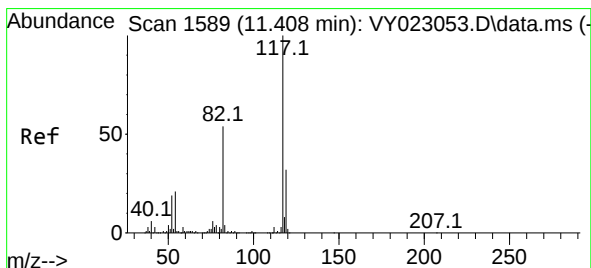
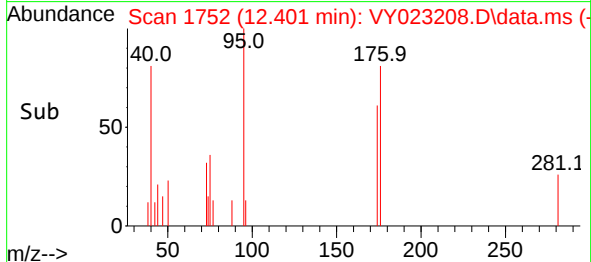
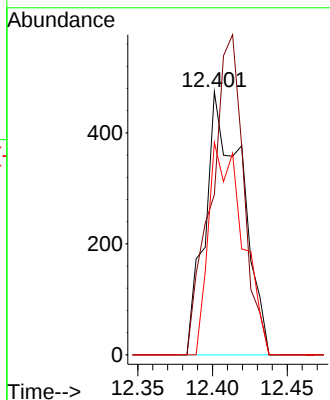
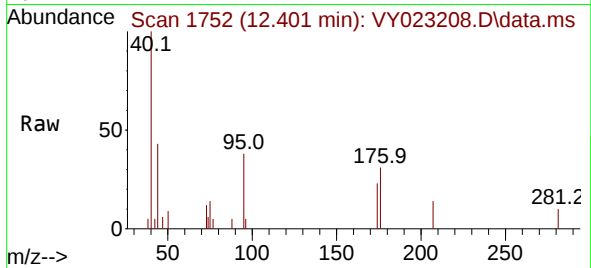




#62  
4-Bromofluorobenzene  
Concen: 11.673 ug/l  
RT: 12.401 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

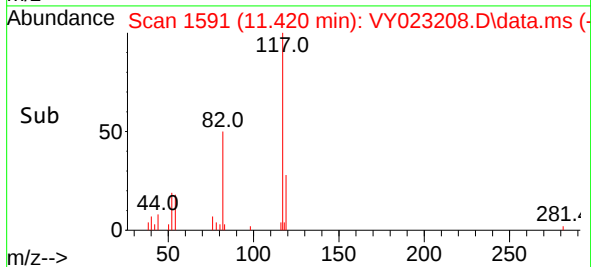
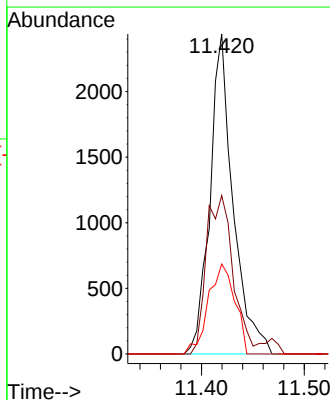
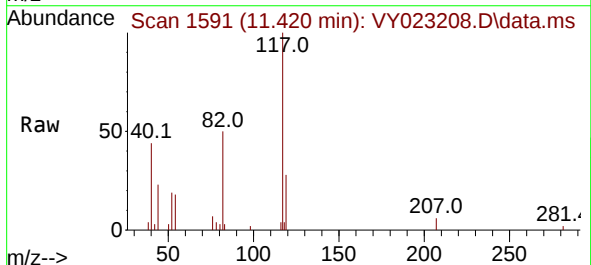
Instrument :  
MSVOA\_Y  
ClientSampleId :

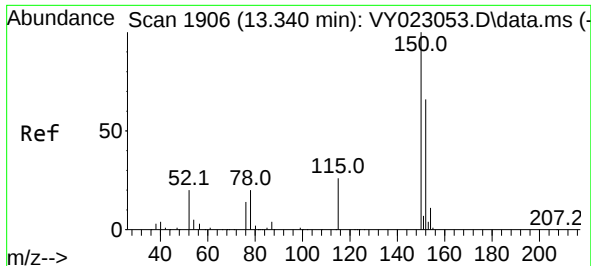
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 808   |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 106.8 | 0.0   | 171.6 |
| 176       | 75.2  | 0.0   | 167.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.012 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

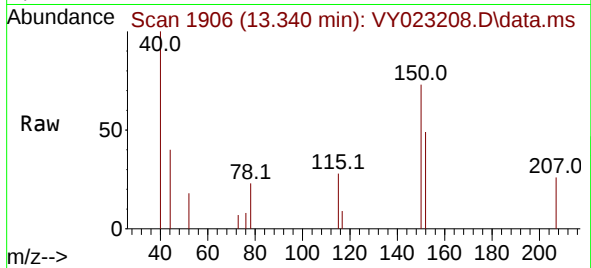
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 117   | Resp: | 3801 |
| Ion Ratio | Lower | Upper |      |
| 117       | 100   |       |      |
| 82        | 49.5  | 43.4  | 65.0 |
| 119       | 28.1  | 25.6  | 38.4 |



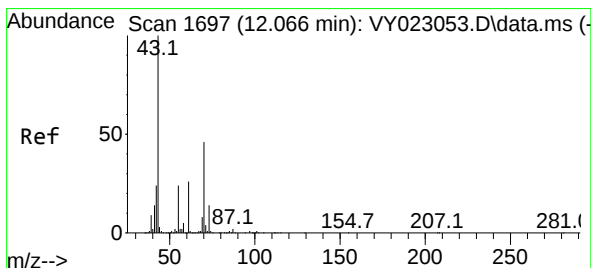
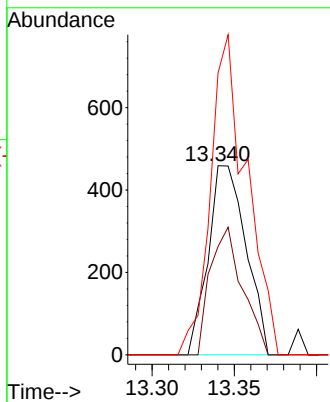
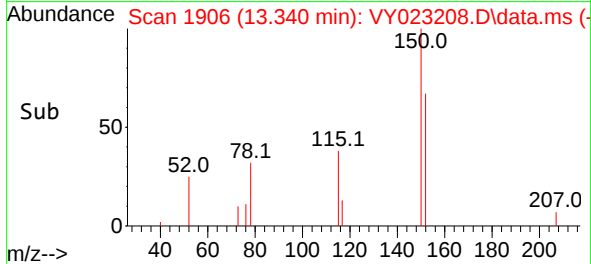


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.340 min Scan# 1906  
Delta R.T. -0.000 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59

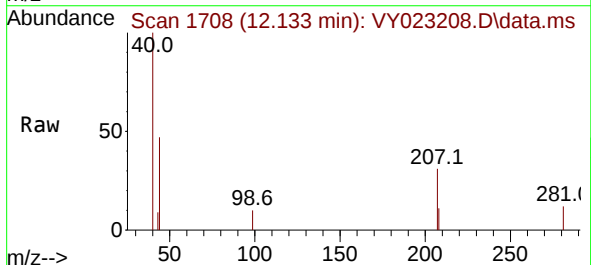
Instrument :  
MSVOA\_Y  
ClientSampleId :



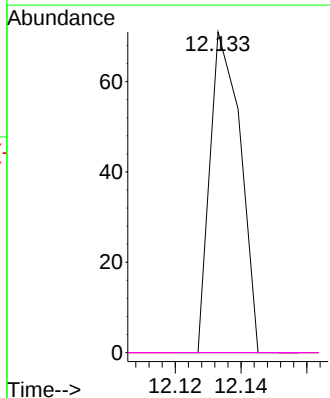
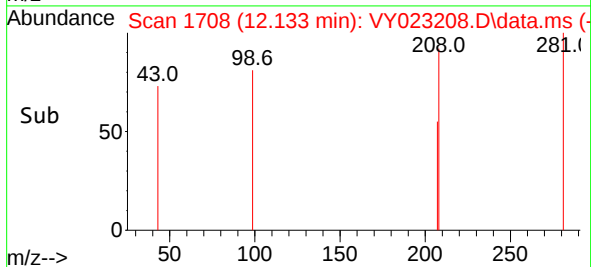
Tgt Ion:152 Resp: 734  
Ion Ratio Lower Upper  
152 100  
115 57.5 28.2 84.6  
150 161.3 0.0 348.0

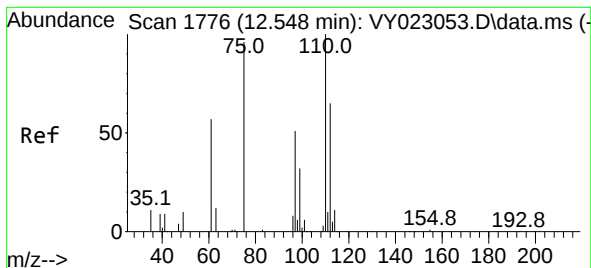


#74  
N-ethyl acetate  
Concen: 4.187 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.067 min  
Lab File: VY023208.D  
Acq: 25 Aug 2025 12:59



Tgt Ion: 43 Resp: 46  
Ion Ratio Lower Upper  
43 100  
70 0.0 37.5 56.3#  
55 0.0 20.7 31.1#  
61 0.0 20.7 31.1#





#76

1,2,3-Trichloropropane

Concen: 6.917 ug/l

RT: 12.578 min Scan# 11

Delta R.T. 0.030 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

Instrument :

MSVOA\_Y

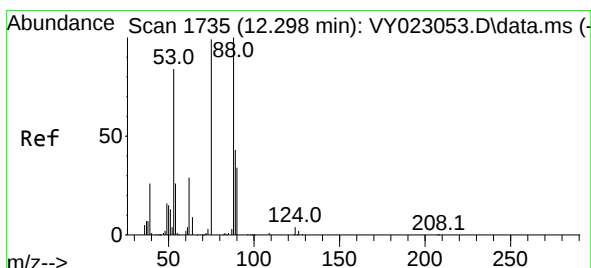
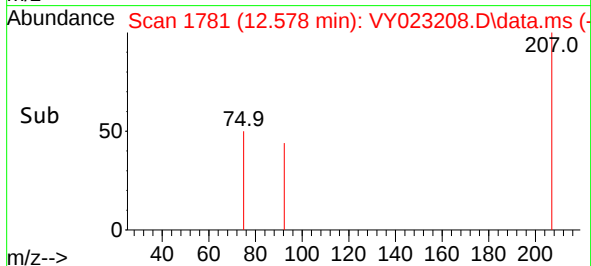
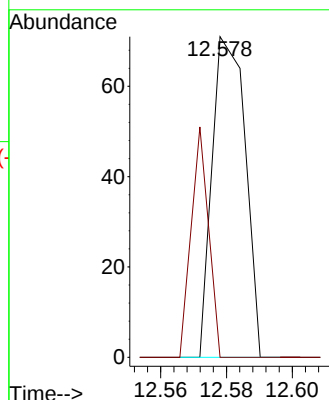
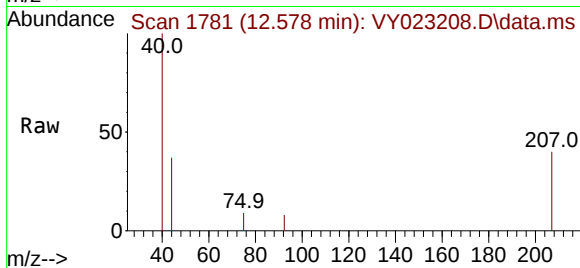
ClientSampleId :

Tgt Ion: 75 Resp: 49

Ion Ratio Lower Upper

75 100

77 38.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 7.859 ug/l

RT: 12.249 min Scan# 1727

Delta R.T. -0.049 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

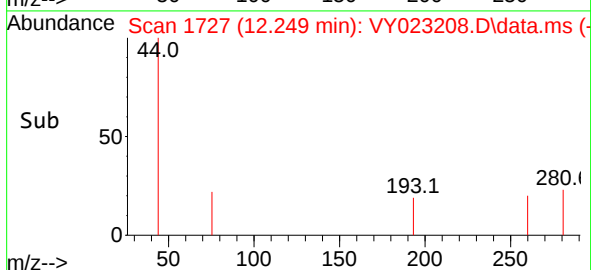
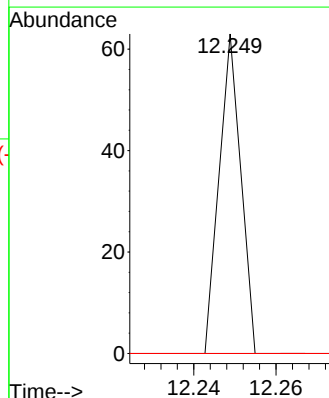
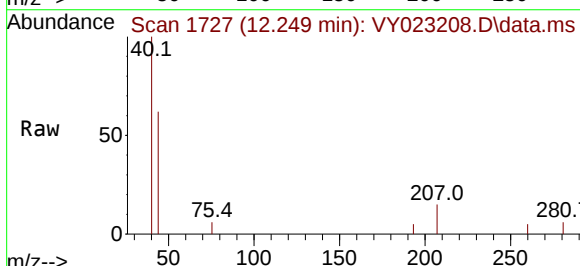
Tgt Ion: 75 Resp: 23

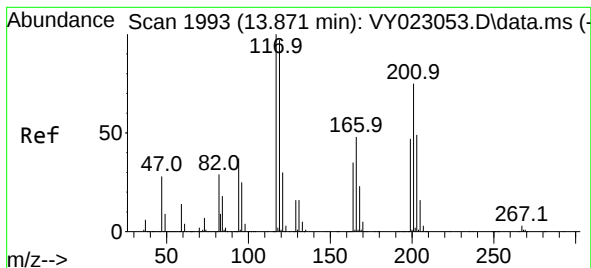
Ion Ratio Lower Upper

75 100

53 0.0 70.8 106.2#

89 0.0 38.1 57.1#





#90

Hexachloroethane

Concen: 2.013 ug/l

RT: 14.029 min Scan# 201

Delta R.T. 0.158 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

Instrument :

MSVOA\_Y

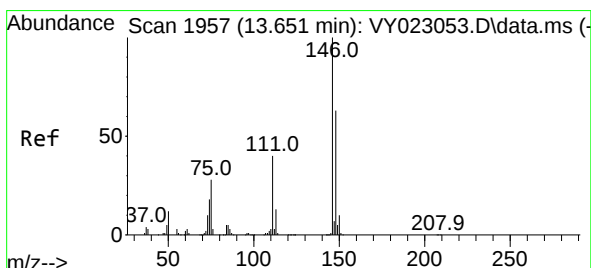
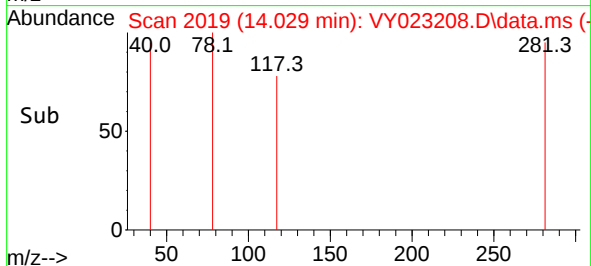
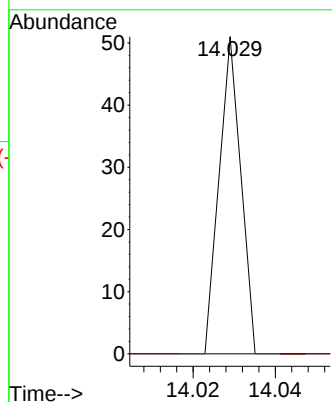
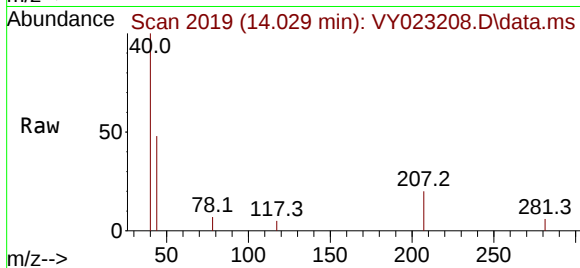
ClientSampleId :

Tgt Ion:117 Resp: 19

Ion Ratio Lower Upper

117 100

201 0.0 38.4 115.1#



#91

1,2-Dichlorobenzene

Concen: 2.713 ug/l

RT: 13.675 min Scan# 1961

Delta R.T. 0.024 min

Lab File: VY023208.D

Acq: 25 Aug 2025 12:59

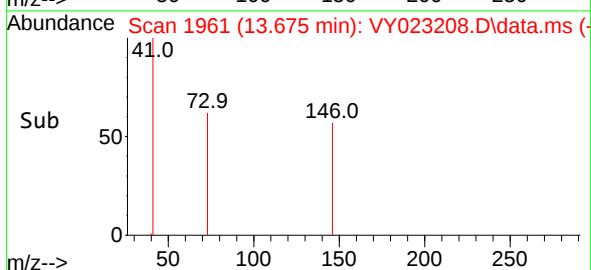
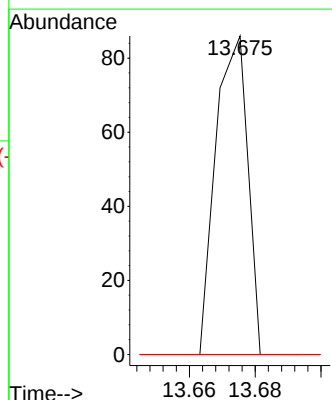
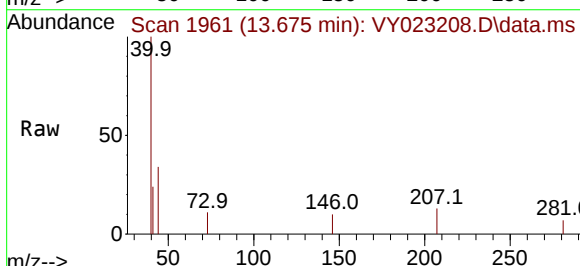
Tgt Ion:146 Resp: 58

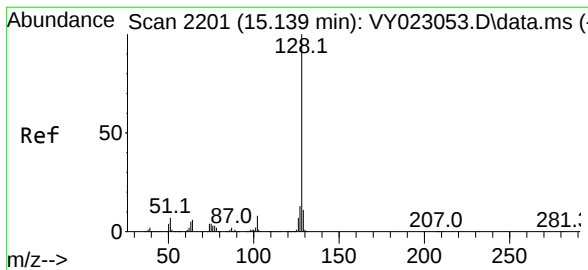
Ion Ratio Lower Upper

146 100

111 0.0 20.3 60.8#

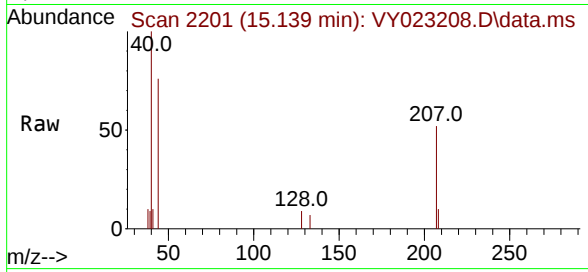
148 0.0 32.2 96.6#





#95  
 Naphthalene  
 Concen: 2.134 ug/l  
 RT: 15.139 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VY023208.D  
 Acq: 25 Aug 2025 12:59

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 46    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.4  | 15.6# |
| 129      | 0.0   | 9.0   | 13.4# |

