

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081523\  
 Data File : VY015114.D  
 Acq On : 15 Aug 2023 19:27  
 Operator : SY/MD  
 Sample : 04017-01  
 Misc : 5.10g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 16 02:08:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

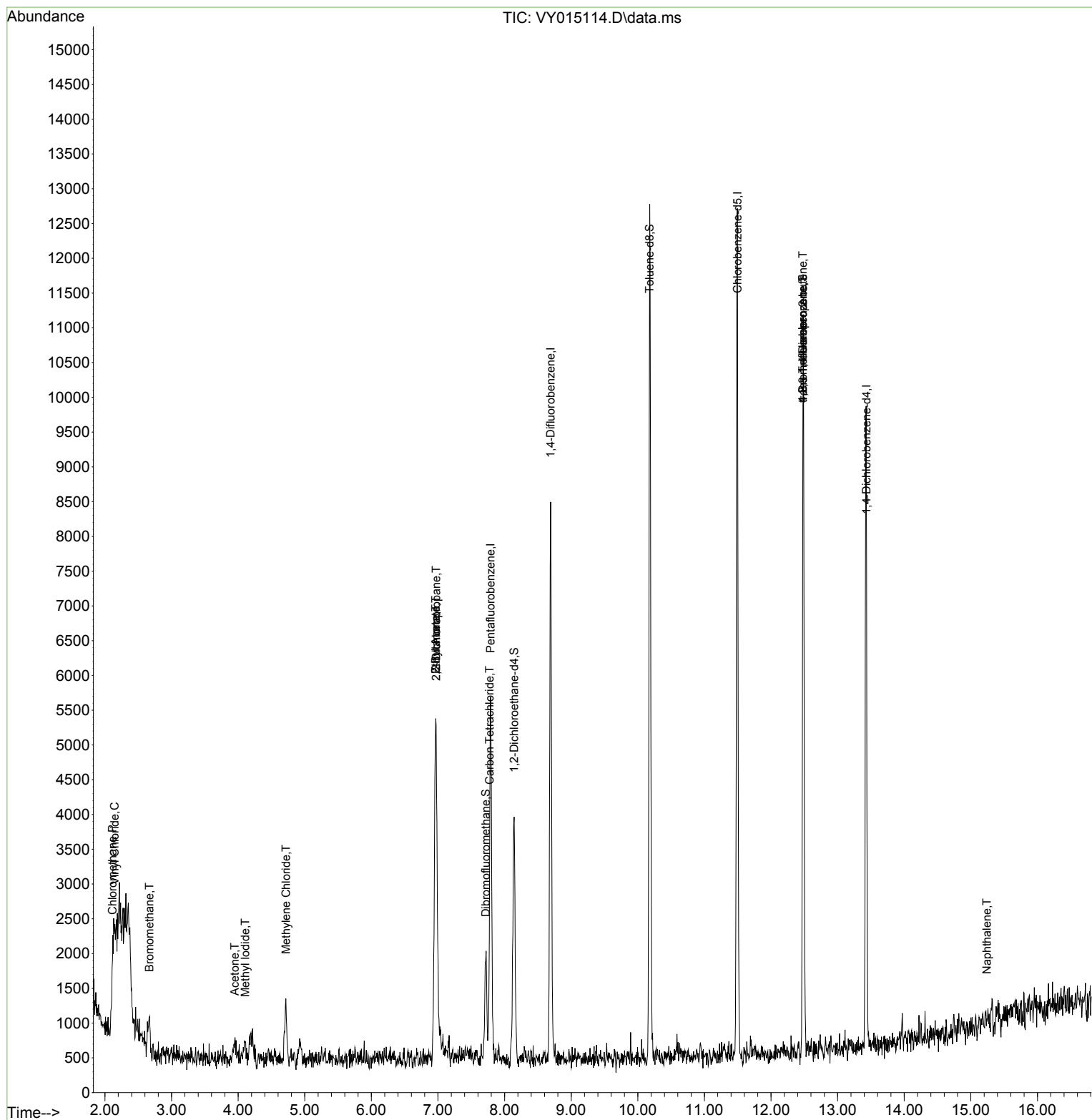
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 4569     | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 7742     | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 7164     | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434 | 152   | 2806     | 50.000    | ug/l       | 0.01     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 2803     | 51.106    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 102.220% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 1217     | 24.434    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 48.860%# |          |
| 50) Toluene-d8                | 10.179 | 98    | 8822     | 47.581    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 95.160%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 2894     | 42.734    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 85.460%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.113  | 50    | 210      | 4.198     | ug/l #     | 43       |
| 4) Vinyl Chloride             | 2.144  | 62    | 38       | 1.045     | ug/l #     | 44       |
| 5) Bromomethane               | 2.668  | 94    | 311      | 10.326    | ug/l       | 97       |
| 10) Methyl Iodide             | 4.107  | 142   | 560      | 14.979    | ug/l #     | 68       |
| 11) Tert butyl alcohol        | 4.924  | 59    | 122      | Below Cal | #          | 89       |
| 16) Acetone                   | 3.948  | 43    | 553      | 30.864    | ug/l       | 98       |
| 20) Methylene Chloride        | 4.716  | 84    | 505      | 8.138     | ug/l #     | 76       |
| 25) 2-Butanone                | 6.966  | 43    | 147      | 5.794     | ug/l #     | 49       |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 203      | 2.765     | ug/l #     | 54       |
| 31) Cyclohexane               | 7.807  | 56    | 20       | Below Cal | #          | 1        |
| 37) Ethyl Acetate             | 6.966  | 43    | 147      | 2.862     | ug/l #     | 54       |
| 38) Carbon Tetrachloride      | 7.777  | 117   | 393      | 6.026     | ug/l #     | 12       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 1728     | 50.688    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 1728     | 111.336   | ug/l #     | 10       |
| 95) Naphthalene               | 15.239 | 128   | 168      | 1.289     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

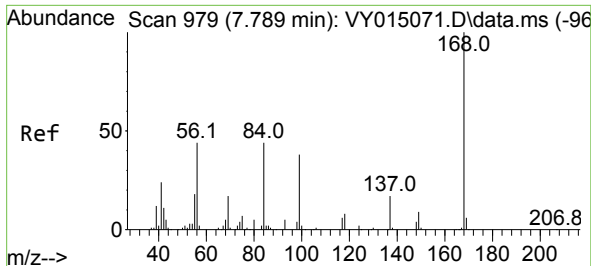
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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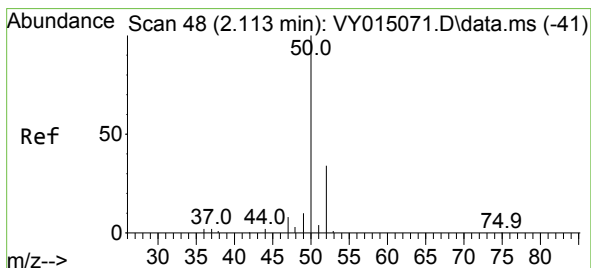
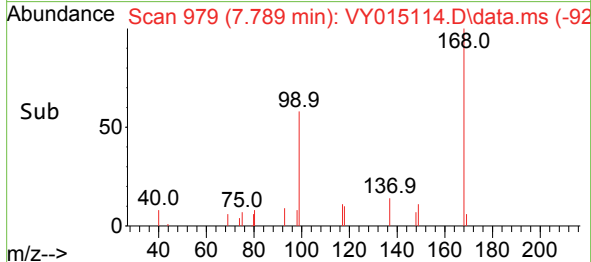
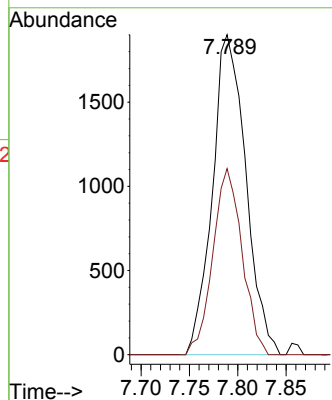
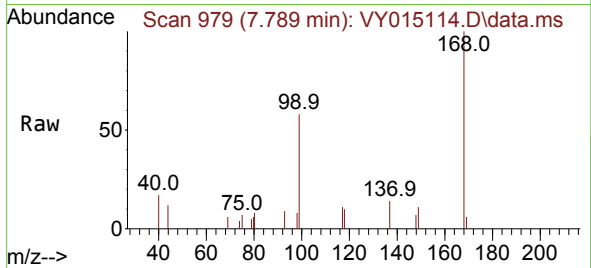




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

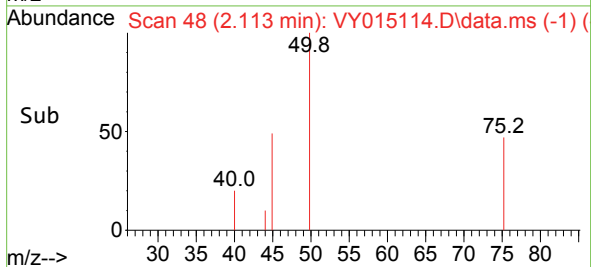
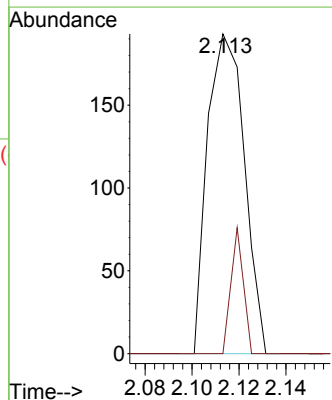
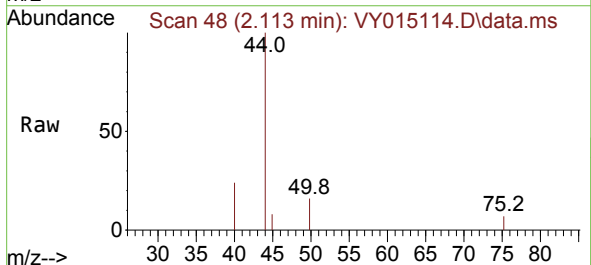
Instrument :  
MSVOA\_Y  
ClientSampleId :

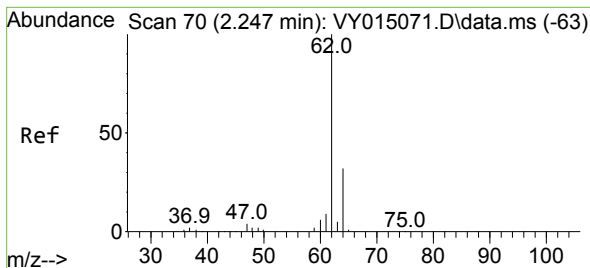
Tgt Ion:168 Resp: 4569  
Ion Ratio Lower Upper  
168 100  
99 58.1 43.4 65.0



#3  
Chloromethane  
Concen: 4.198 ug/l  
RT: 2.113 min Scan# 48  
Delta R.T. 0.006 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Tgt Ion: 50 Resp: 210  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.2#





#4

Vinyl Chloride

Concen: 1.045 ug/l

RT: 2.144 min Scan# 51

Delta R.T. -0.103 min

Lab File: VY015114.D

Acq: 15 Aug 2023 19:27

Instrument :

MSVOA\_Y

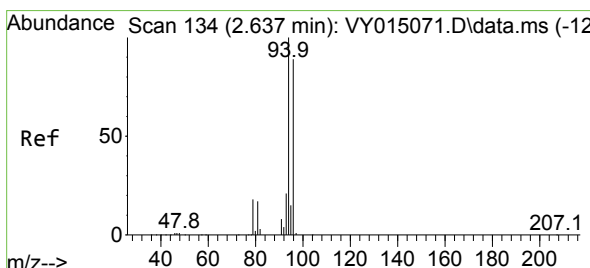
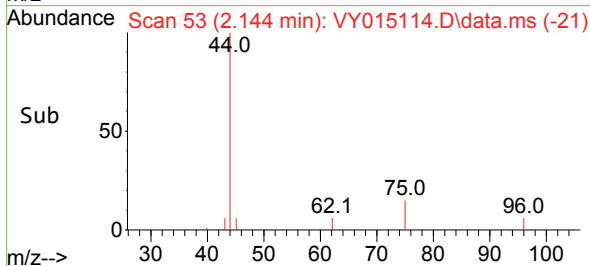
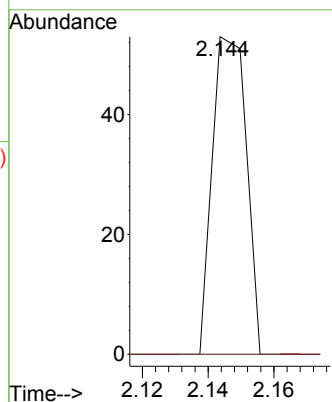
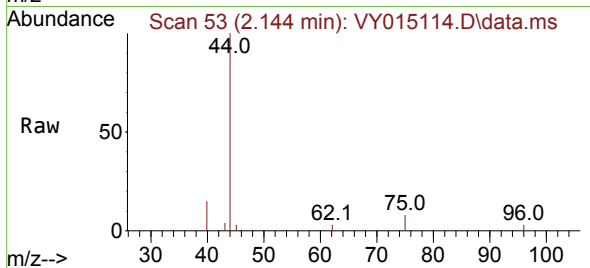
ClientSampleId :

Tgt Ion: 62 Resp: 38

Ion Ratio Lower Upper

62 100

64 0.0 24.3 36.5#



#5

Bromomethane

Concen: 10.326 ug/l

RT: 2.668 min Scan# 139

Delta R.T. 0.031 min

Lab File: VY015114.D

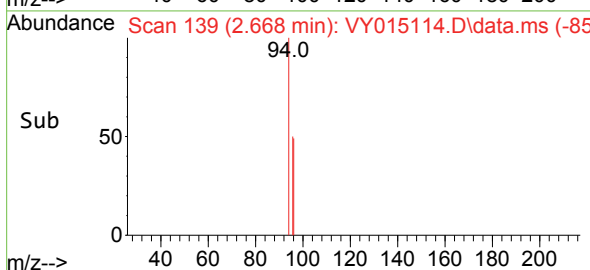
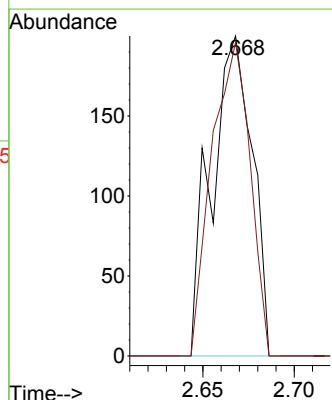
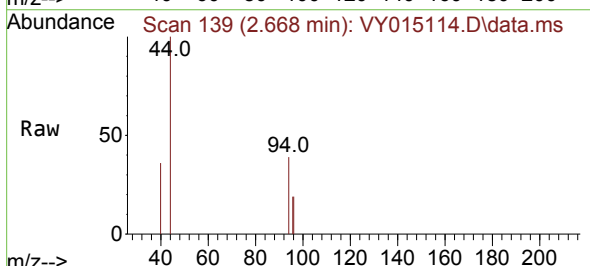
Acq: 15 Aug 2023 19:27

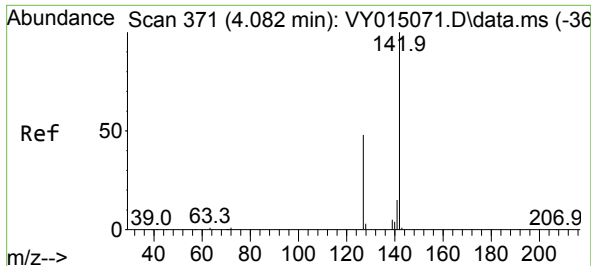
Tgt Ion: 94 Resp: 311

Ion Ratio Lower Upper

94 100

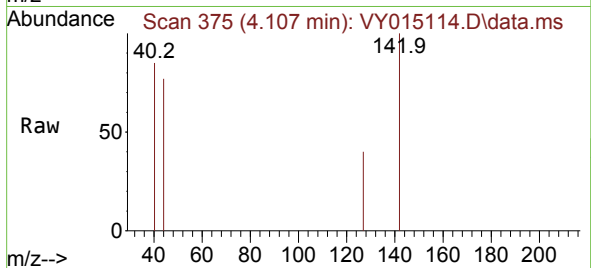
96 98.0 75.8 113.6



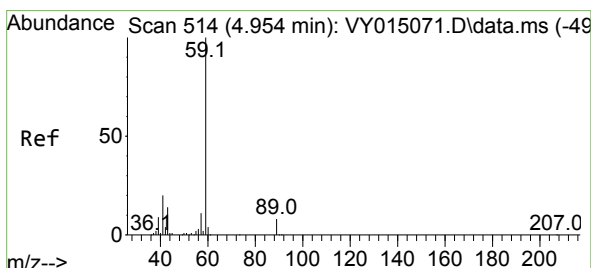
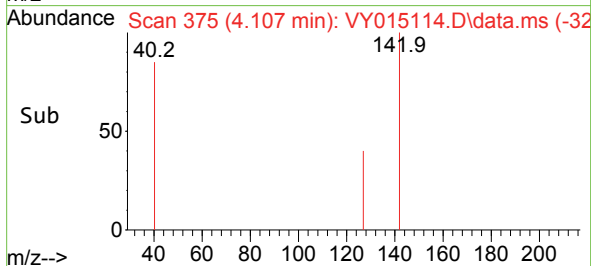
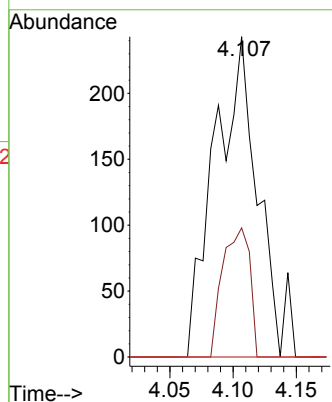


#10  
Methyl Iodide  
Concen: 14.979 ug/l  
RT: 4.107 min Scan# 31  
Delta R.T. 0.024 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

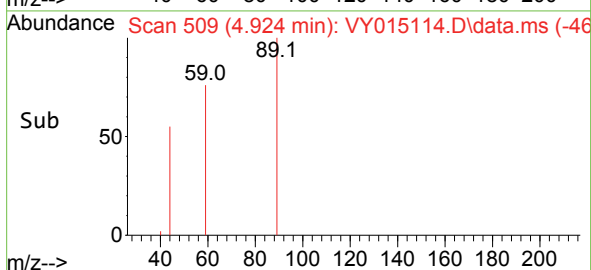
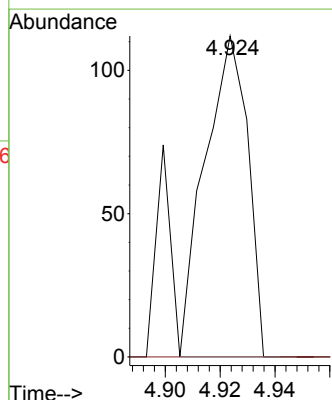
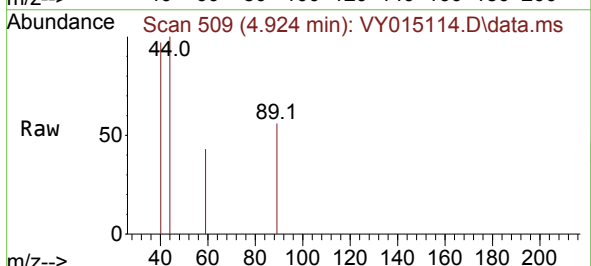


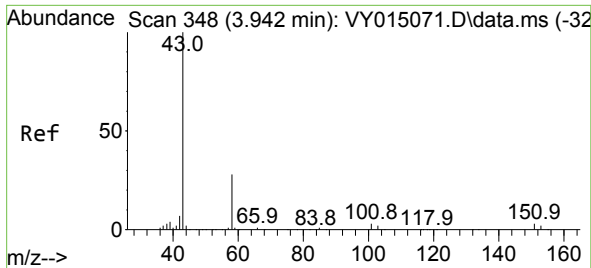
Tgt Ion:142 Resp: 560  
Ion Ratio Lower Upper  
142 100  
127 26.1 37.6 56.4#  
141 0.0 11.8 17.8#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.924 min Scan# 509  
Delta R.T. -0.024 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Tgt Ion: 59 Resp: 122  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#





#16

Acetone

Concen: 30.864 ug/l

RT: 3.948 min Scan# 34

Delta R.T. 0.006 min

Lab File: VY015114.D

Acq: 15 Aug 2023 19:27

Instrument :

MSVOA\_Y

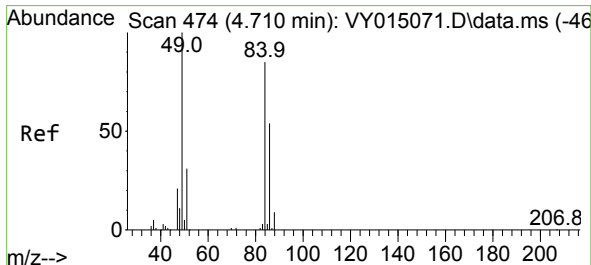
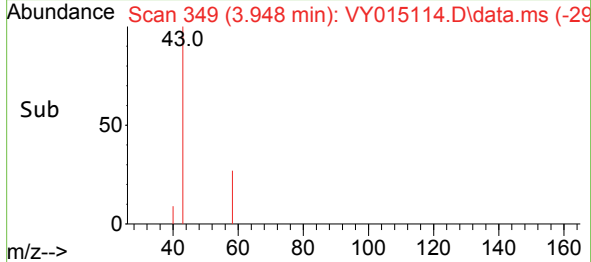
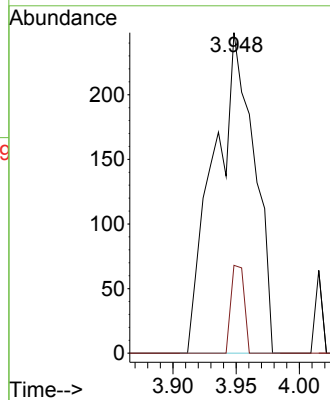
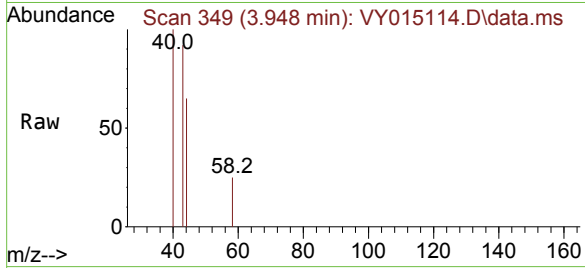
ClientSampleId :

Tgt Ion: 43 Resp: 553

Ion Ratio Lower Upper

43 100

58 27.4 22.7 34.1



#20

Methylene Chloride

Concen: 8.138 ug/l

RT: 4.716 min Scan# 475

Delta R.T. 0.006 min

Lab File: VY015114.D

Acq: 15 Aug 2023 19:27

Tgt Ion: 84 Resp: 505

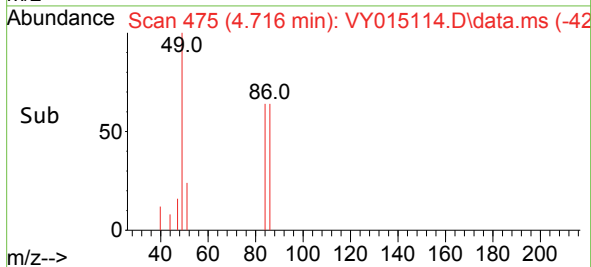
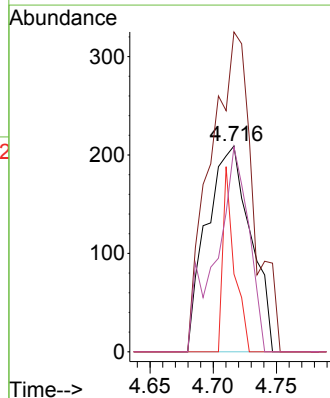
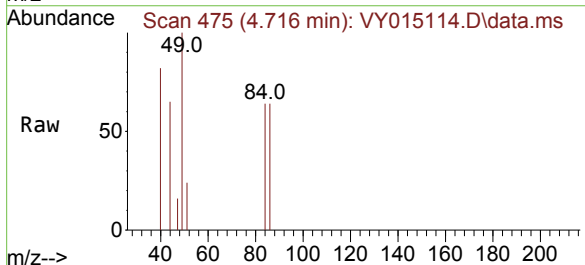
Ion Ratio Lower Upper

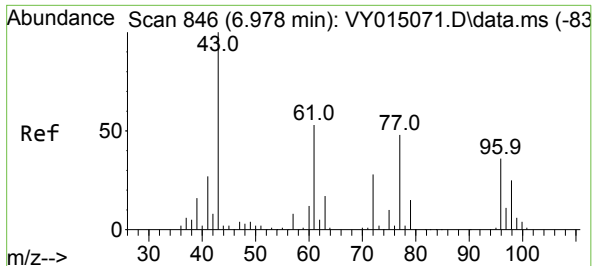
84 100

49 155.5 106.9 160.3

51 37.8 33.2 49.8

86 99.5 51.0 76.6#





#25

2-Butanone

Concen: 5.794 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY015114.D

Acq: 15 Aug 2023 19:27

Instrument :

MSVOA\_Y

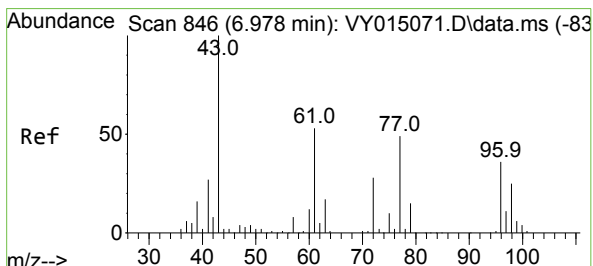
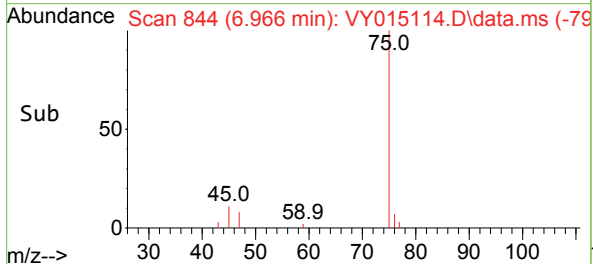
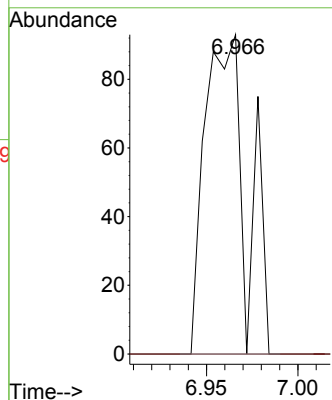
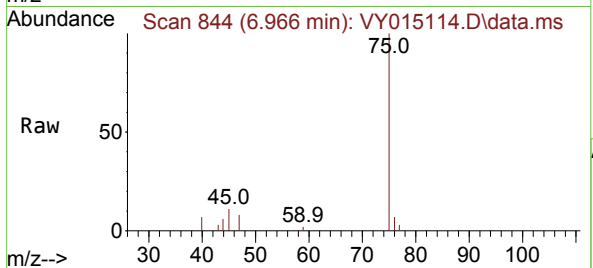
ClientSampleId :

Tgt Ion: 43 Resp: 147

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 2.765 ug/l

RT: 6.972 min Scan# 845

Delta R.T. 0.000 min

Lab File: VY015114.D

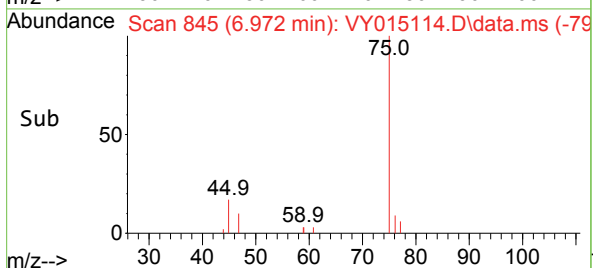
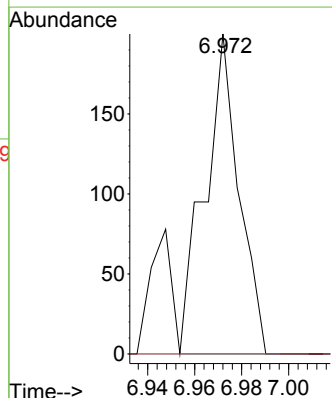
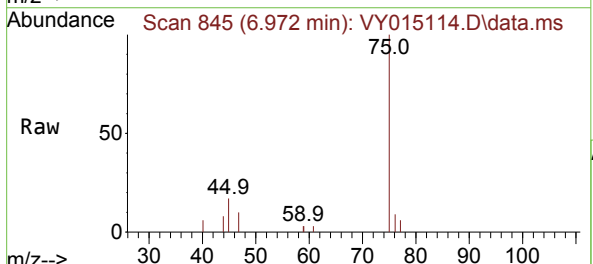
Acq: 15 Aug 2023 19:27

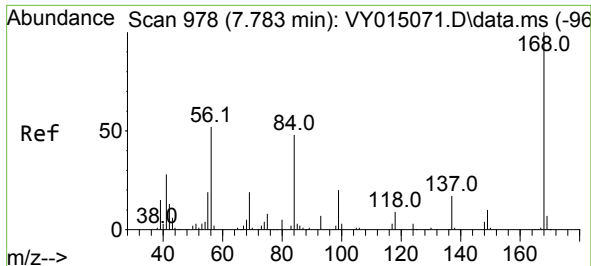
Tgt Ion: 77 Resp: 203

Ion Ratio Lower Upper

77 100

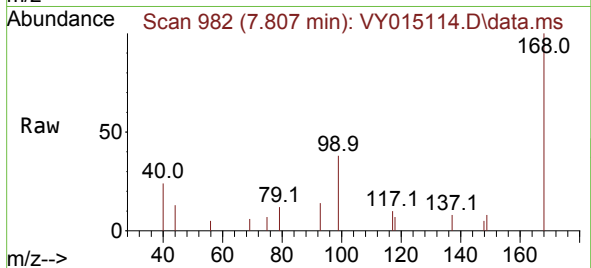
97 0.0 10.9 32.9#



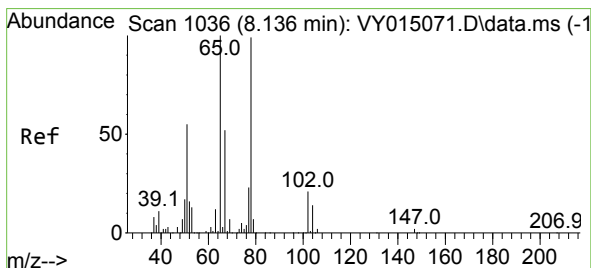
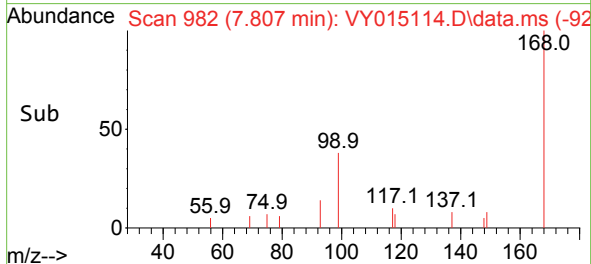
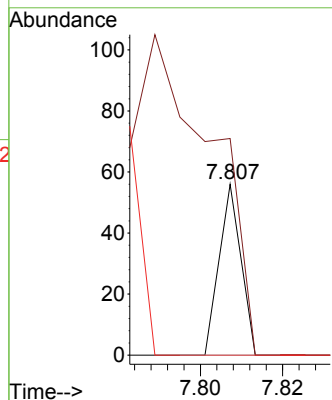


#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.807 min Scan# 91  
Delta R.T. 0.030 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

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ClientSampleId :

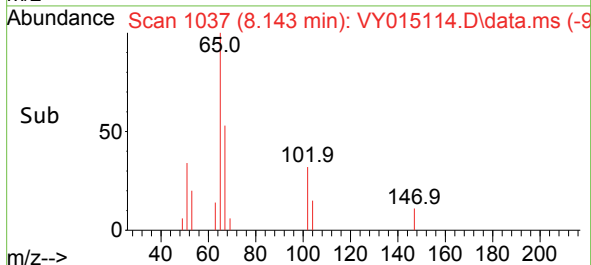
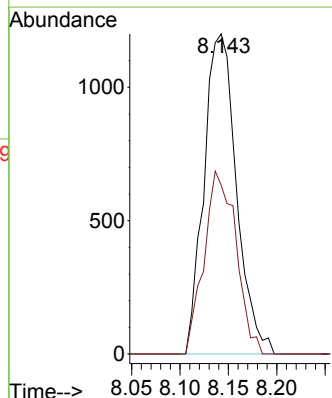
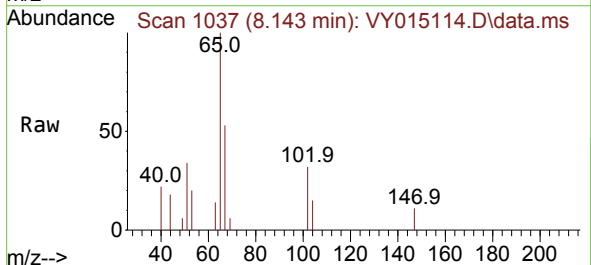


Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
69 126.8 27.8 41.6#  
84 0.0 66.4 99.6#

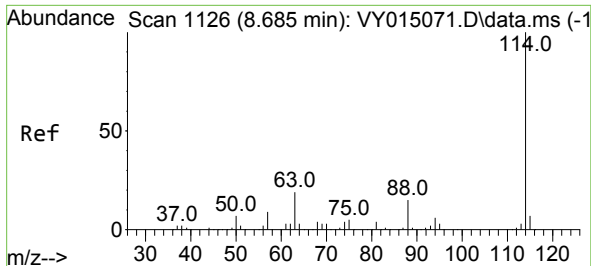


#33  
1,2-Dichloroethane-d4  
Concen: 51.106 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.006 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Tgt Ion: 65 Resp: 2803  
Ion Ratio Lower Upper  
65 100  
67 56.1 0.0 101.8







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY015114.D

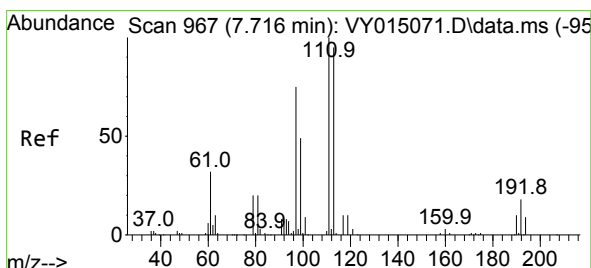
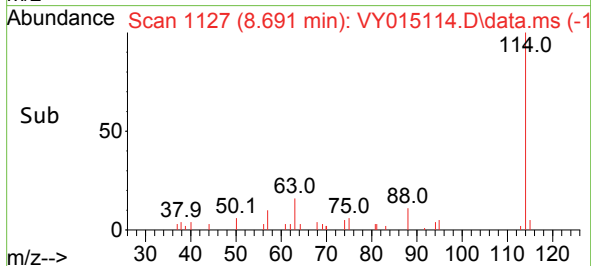
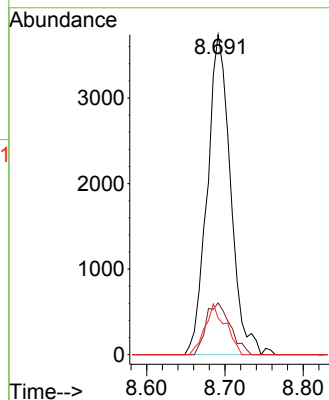
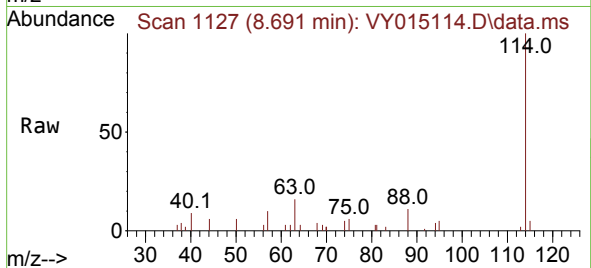
Acq: 15 Aug 2023 19:27

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 7742     |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 16.2  | 0.0 42.4 |
| 88          | 11.4  | 0.0 30.6 |



#35

Dibromofluoromethane

Concen: 24.434 ug/l

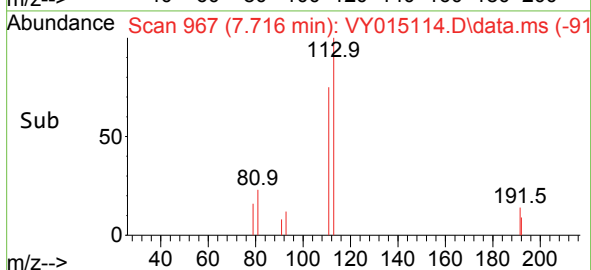
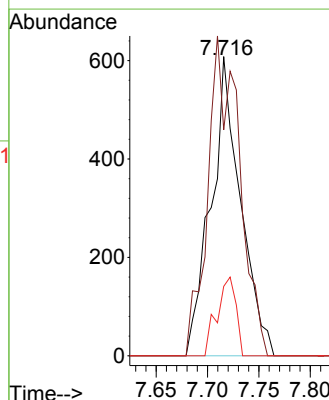
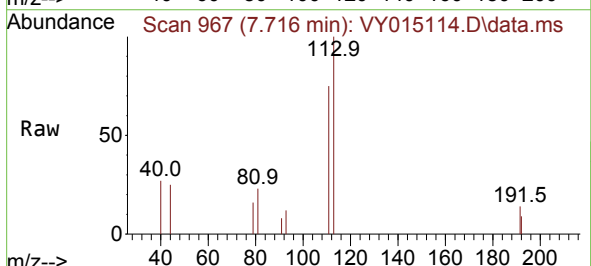
RT: 7.716 min Scan# 967

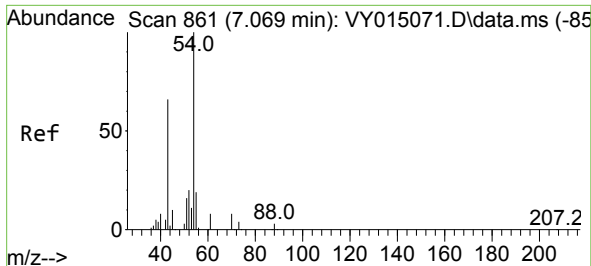
Delta R.T. 0.000 min

Lab File: VY015114.D

Acq: 15 Aug 2023 19:27

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 1217       |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 114.8 | 81.3 121.9 |
| 192         | 16.7  | 16.9 25.3  |





#37

Ethyl Acetate

Concen: 2.862 ug/l

RT: 6.966 min Scan# 84

Delta R.T. -0.104 min

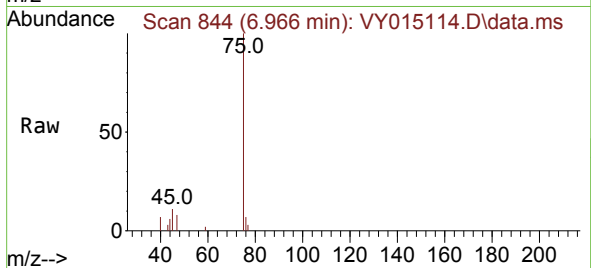
Lab File: VY015114.D

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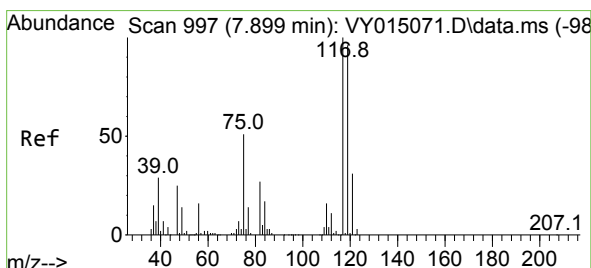
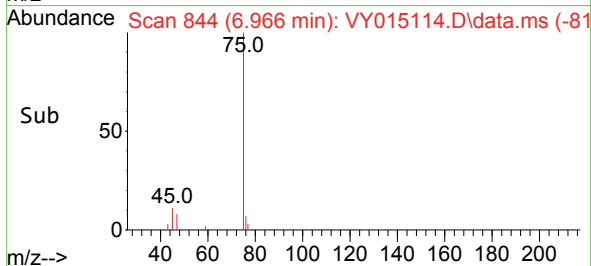
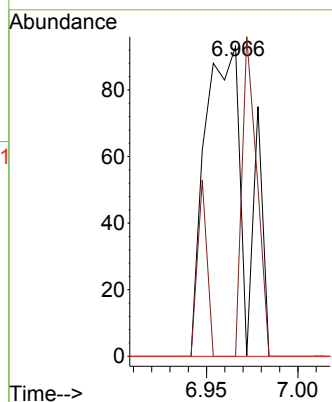
Instrument :

MSVOA\_Y

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 147   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 36.7  | 10.1  | 15.1# |
| 70       | 0.0   | 7.1   | 10.7# |



#38

Carbon Tetrachloride

Concen: 6.026 ug/l

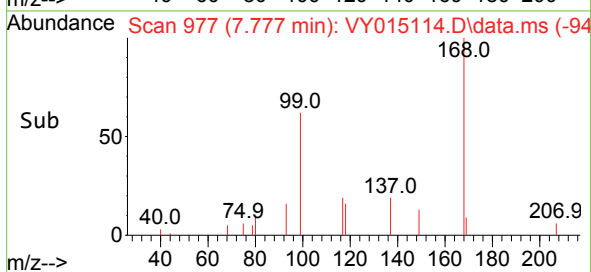
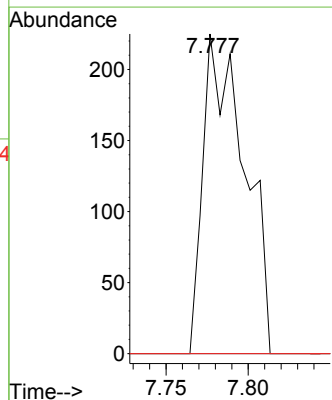
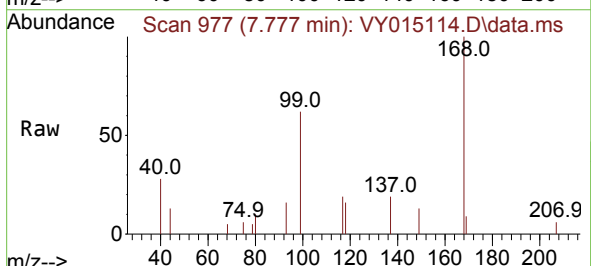
RT: 7.777 min Scan# 977

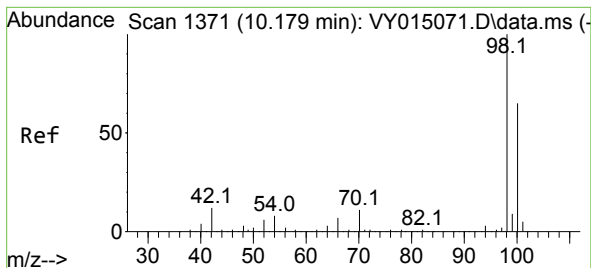
Delta R.T. -0.122 min

Lab File: VY015114.D

Acq: 15 Aug 2023 19:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 393    |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 0.0   | 76.4  | 114.6# |
| 121      | 0.0   | 25.8  | 38.6#  |

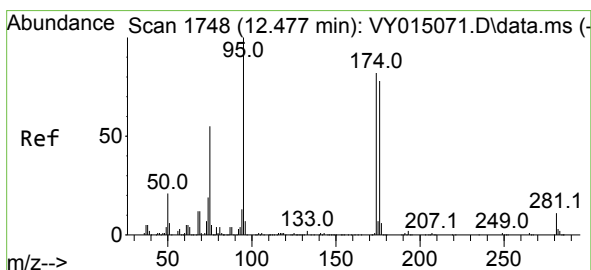
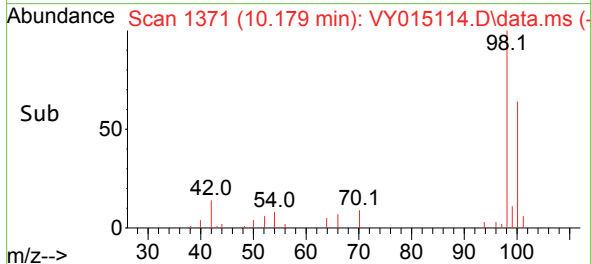
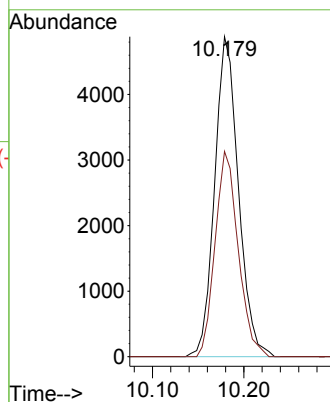
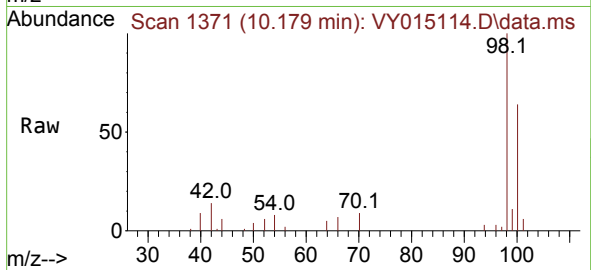




#50  
Toluene-d8  
Concen: 47.581 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

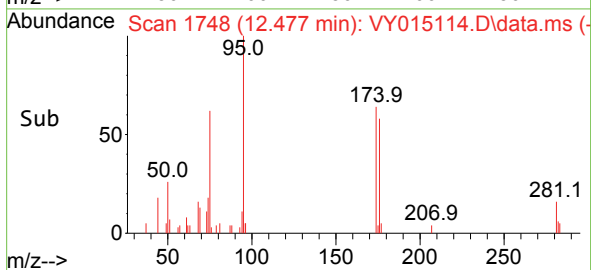
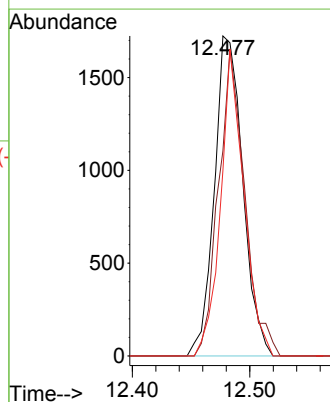
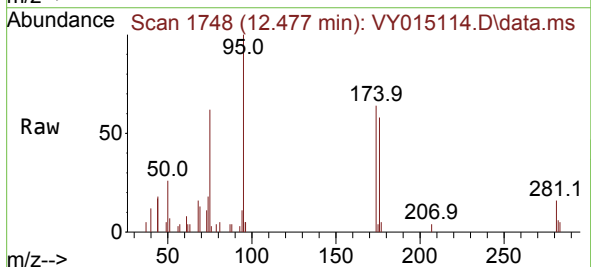
Instrument :  
MSVOA\_Y  
ClientSampleId :

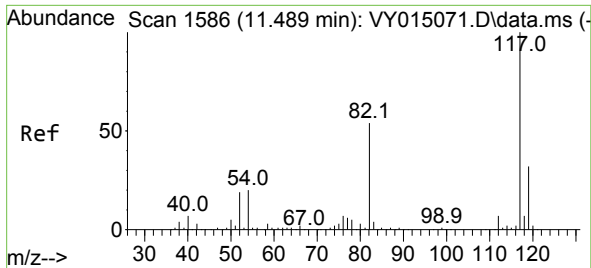
Tgt Ion: 98 Resp: 8822  
Ion Ratio Lower Upper  
98 100  
100 62.3 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 42.734 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Tgt Ion: 95 Resp: 2894  
Ion Ratio Lower Upper  
95 100  
174 88.5 0.0 178.2  
176 78.7 0.0 173.8

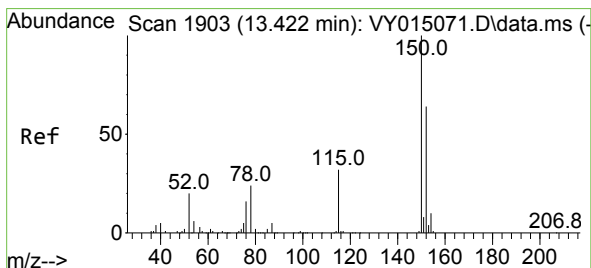
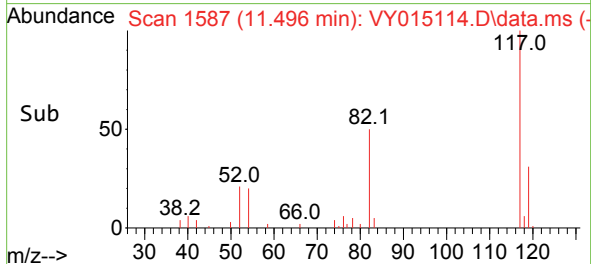
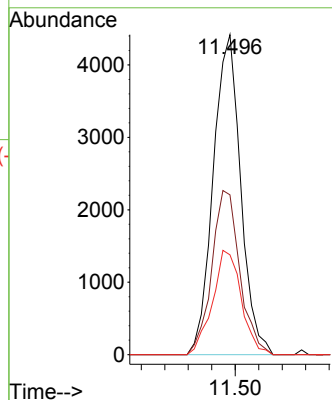
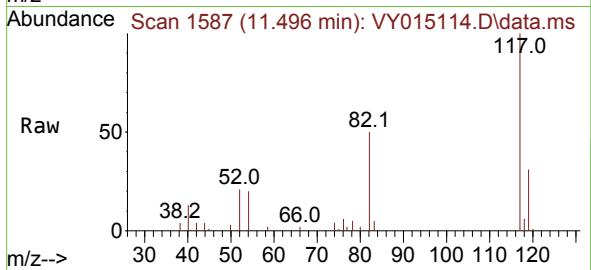




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

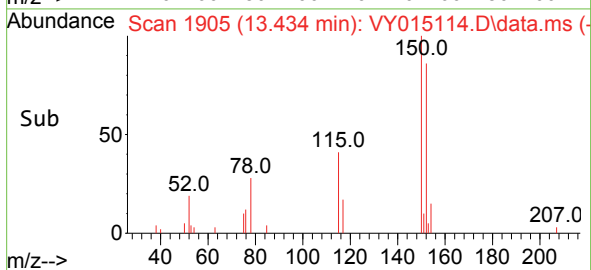
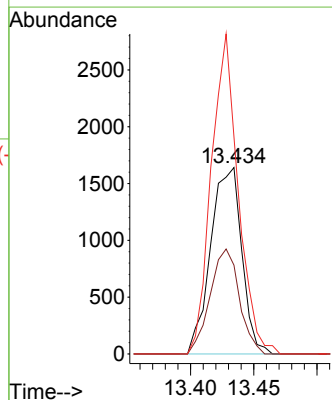
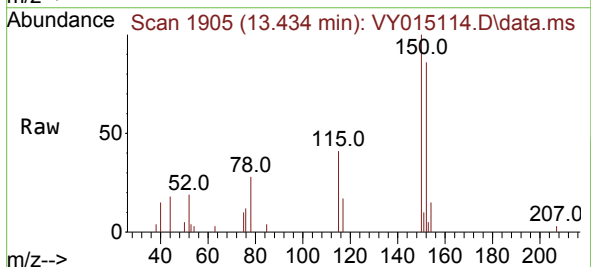
Instrument :  
MSVOA\_Y  
ClientSampleId :

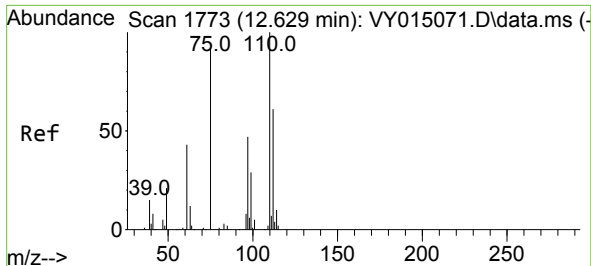
Tgt Ion:117 Resp: 7164  
Ion Ratio Lower Upper  
117 100  
82 49.9 43.4 65.0  
119 31.2 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.434 min Scan# 1905  
Delta R.T. 0.012 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Tgt Ion:152 Resp: 2806  
Ion Ratio Lower Upper  
152 100  
115 52.9 28.8 86.5  
150 148.4 0.0 348.8

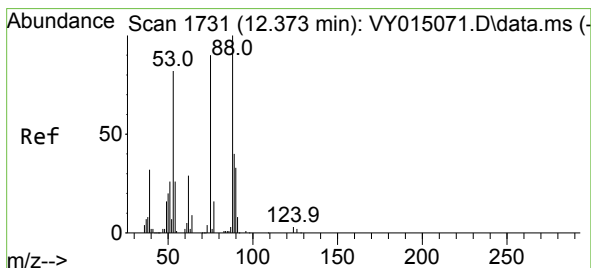
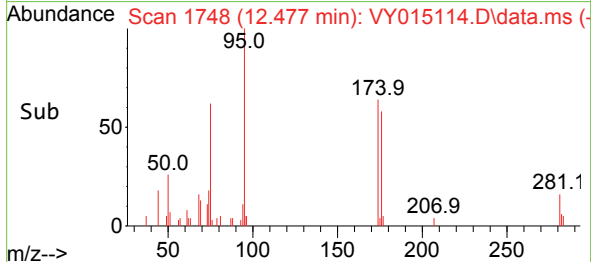
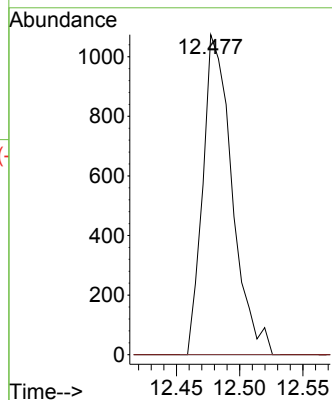
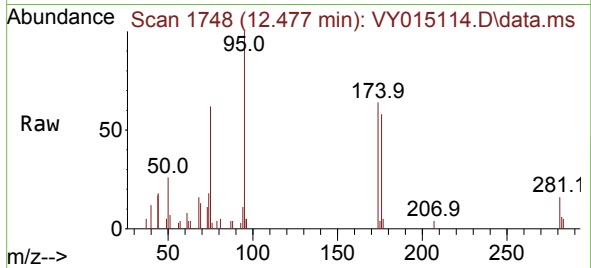




#76  
1,2,3-Trichloropropane  
Concen: 50.688 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

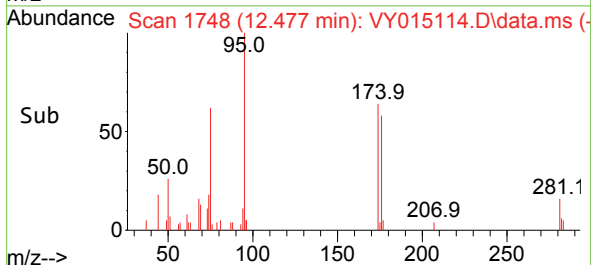
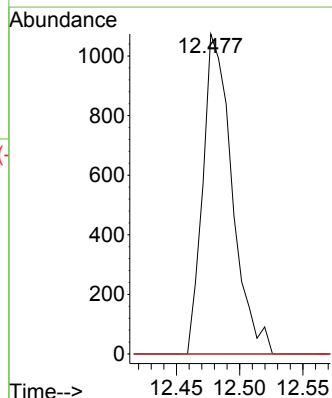
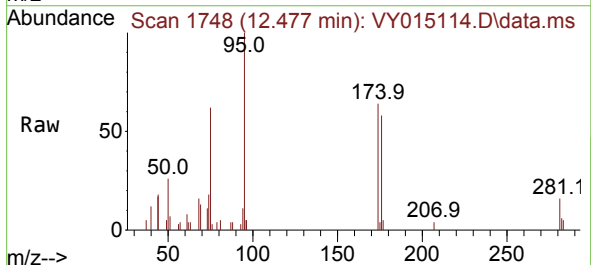
Instrument :  
MSVOA\_Y  
ClientSampleId :

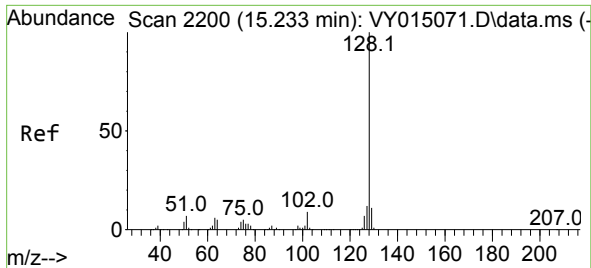
Tgt Ion: 75 Resp: 1728  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 111.336 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.104 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

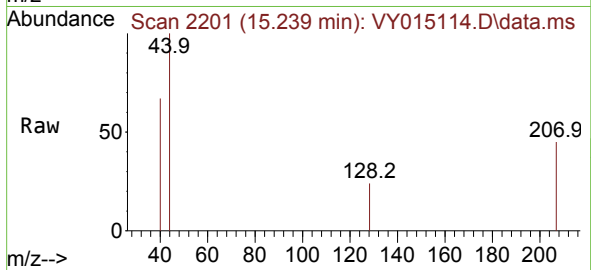
Tgt Ion: 75 Resp: 1728  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#





#95  
Naphthalene  
Concen: 1.289 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VY015114.D  
Acq: 15 Aug 2023 19:27

Instrument :  
MSVOA\_Y  
ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.8  | 16.2# |
| 129     | 0.0   | 8.6   | 13.0# |

