

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100523\  
 Data File : VY015849.D  
 Acq On : 05 Oct 2023 14:56  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 06 05:59:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100523S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 06 05:54:04 2023  
 Response via : Initial Calibration

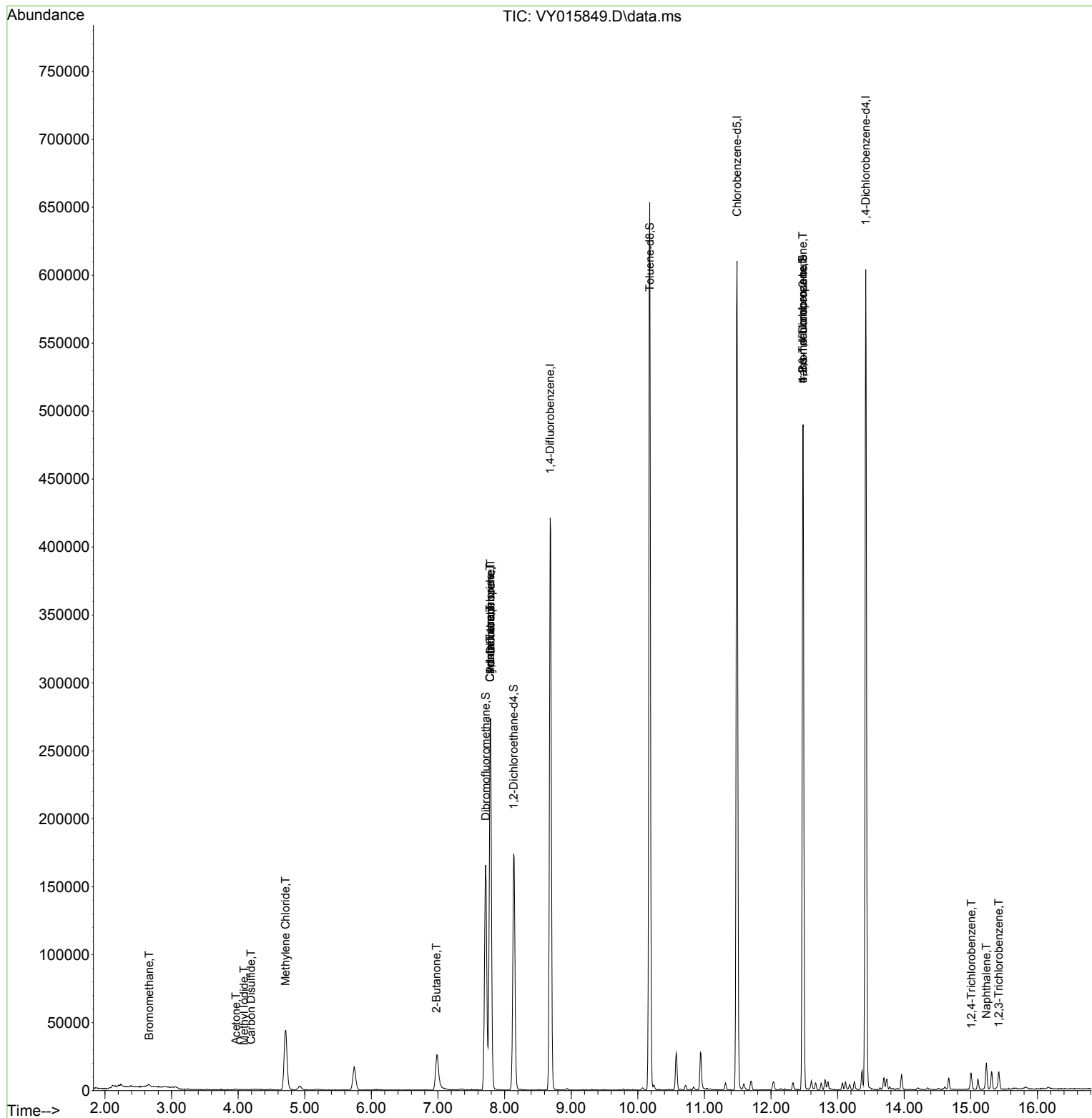
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 215264              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 367998              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 337277              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 156171              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 136674              | 64.534    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 129.060% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 118453              | 56.471    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 112.940% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 434724              | 63.833    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 127.660% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 151016              | 54.249    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 108.500% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.662          | 94   | 906                 | 1.677     | ug/l   | 88       |
| 10) Methyl Iodide             | 4.088          | 142  | 1088                | 3.746     | ug/l # | 88       |
| 11) Tert butyl alcohol        | 4.911          | 59   | 3536                | Below Cal | #      | 89       |
| 16) Acetone                   | 3.966          | 43   | 1485                | 1.353     | ug/l   | 95       |
| 17) Carbon Disulfide          | 4.192          | 76   | 500                 | 3.126     | ug/l # | 76       |
| 20) Methylene Chloride        | 4.710          | 84   | 34703               | 9.283     | ug/l   | 92       |
| 25) 2-Butanone                | 6.978          | 43   | 1981                | 1.313     | ug/l   | 97       |
| 31) Cyclohexane               | 7.783          | 56   | 4454                | 1.866     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 16367               | 6.540     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 21398               | 7.272     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 78347               | 33.889    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 78347               | 78.449    | ug/l # | 10       |
| 93) 1,2,4-Trichlorobenzene    | 15.007         | 180  | 4049                | 1.318     | ug/l   | 99       |
| 95) Naphthalene               | 15.233         | 128  | 16572               | 2.023     | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.422         | 180  | 4564                | 1.586     | ug/l   | 93       |
| -----                         |                |      |                     |           |        |          |

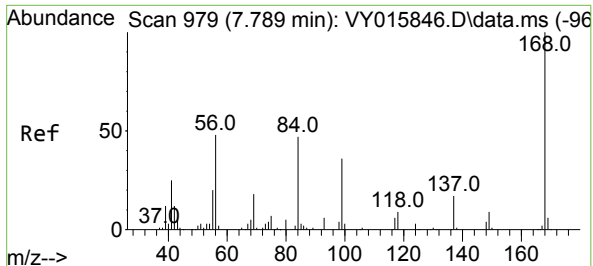
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100523\  
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Sample : VIBLK  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

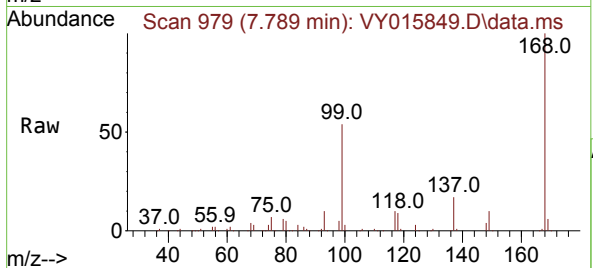
Quant Time: Oct 06 05:59:37 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100523S.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 06 05:54:04 2023  
Response via : Initial Calibration



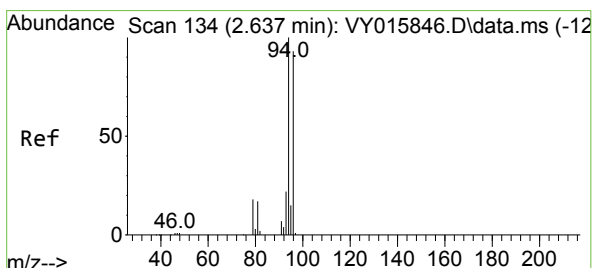
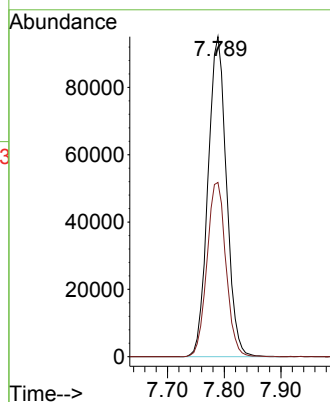
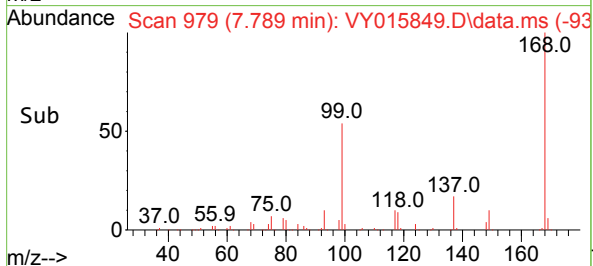


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

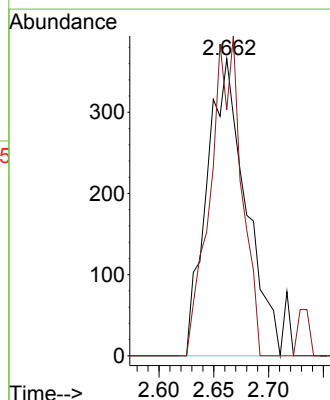
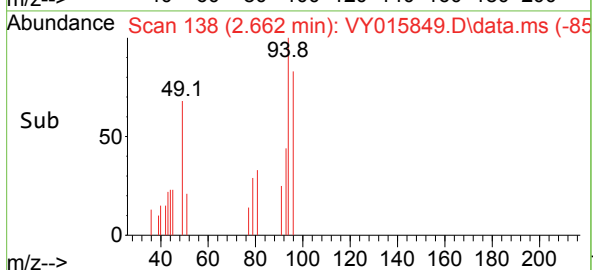
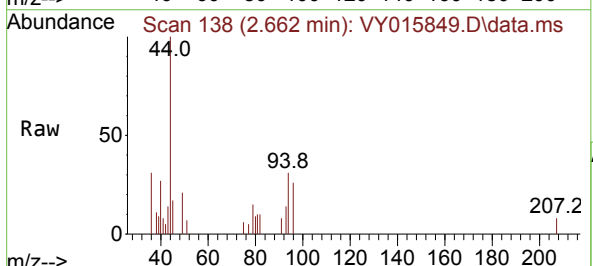


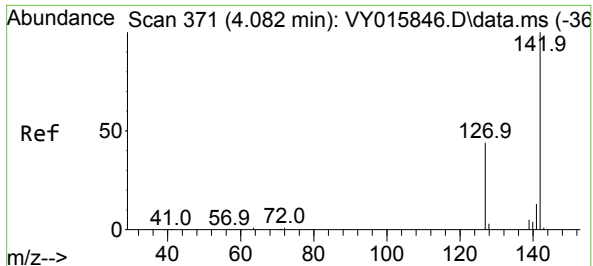
Tgt Ion:168 Resp: 215264  
Ion Ratio Lower Upper  
168 100  
99 54.5 43.4 65.0



#5  
Bromomethane  
Concen: 1.677 ug/l  
RT: 2.662 min Scan# 138  
Delta R.T. 0.025 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

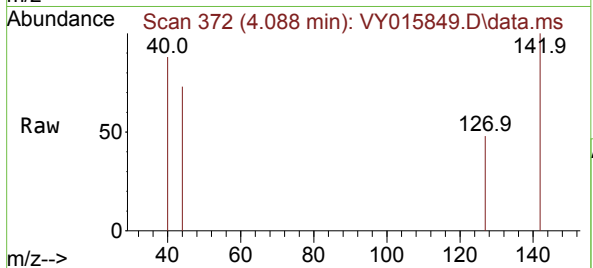
Tgt Ion: 94 Resp: 906  
Ion Ratio Lower Upper  
94 100  
96 82.8 75.8 113.6



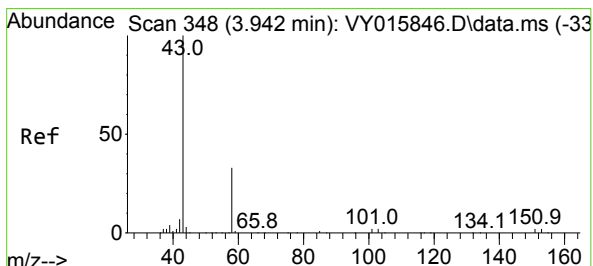
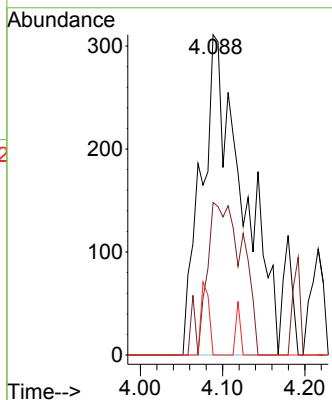
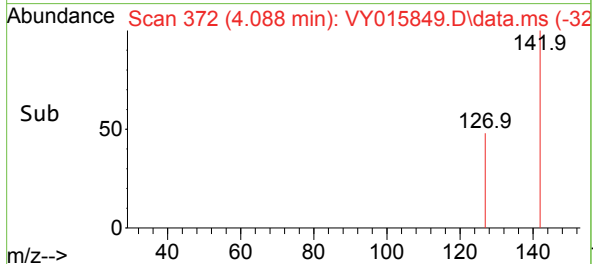


#10  
Methyl Iodide  
Concen: 3.746 ug/l  
RT: 4.088 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

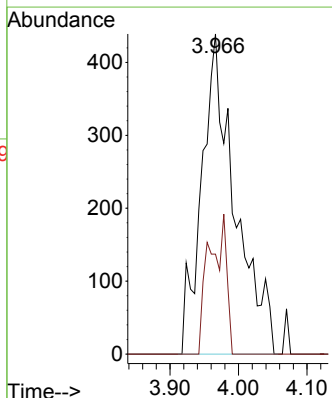
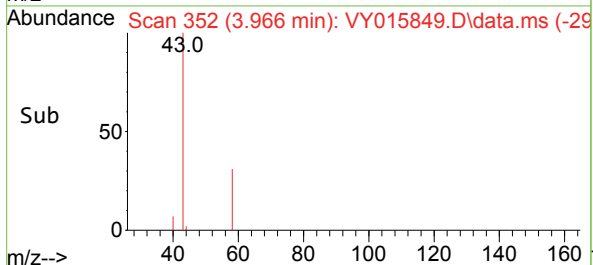
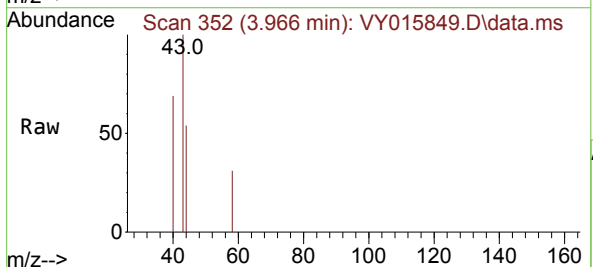


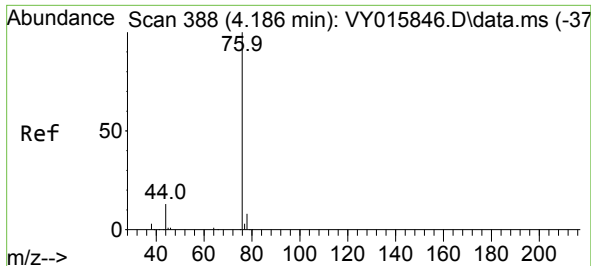
Tgt Ion:142 Resp: 1088  
Ion Ratio Lower Upper  
142 100  
127 41.7 37.6 56.4  
141 4.3 11.8 17.8#



#16  
Acetone  
Concen: 1.353 ug/l  
RT: 3.966 min Scan# 352  
Delta R.T. 0.024 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Tgt Ion: 43 Resp: 1485  
Ion Ratio Lower Upper  
43 100  
58 31.2 22.7 34.1

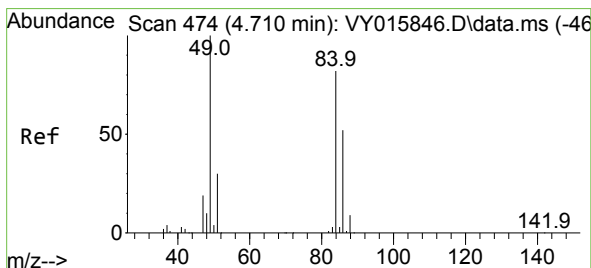
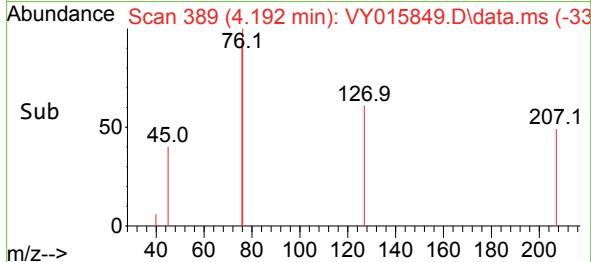
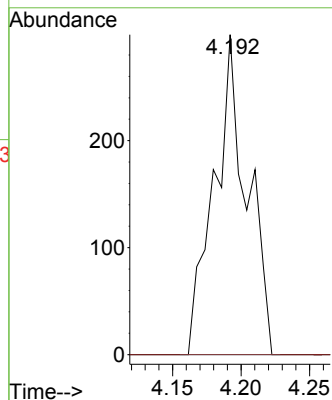
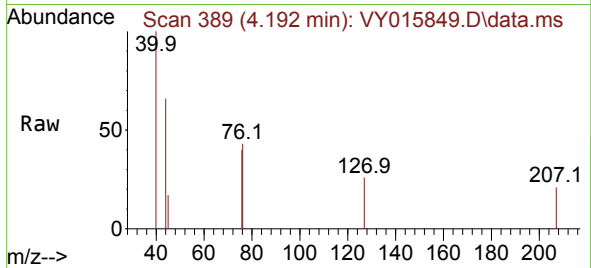




#17  
Carbon Disulfide  
Concen: 3.126 ug/l  
RT: 4.192 min Scan# 389  
Delta R.T. 0.006 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

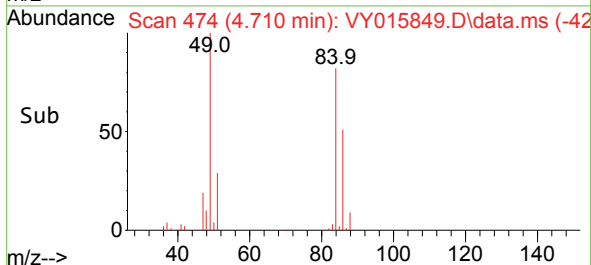
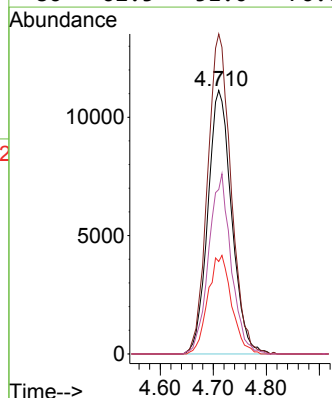
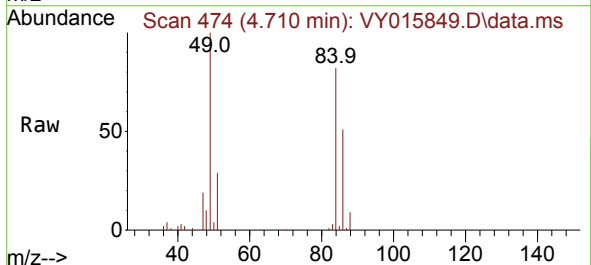
Instrument :  
MSVOA\_Y  
ClientSampleId :

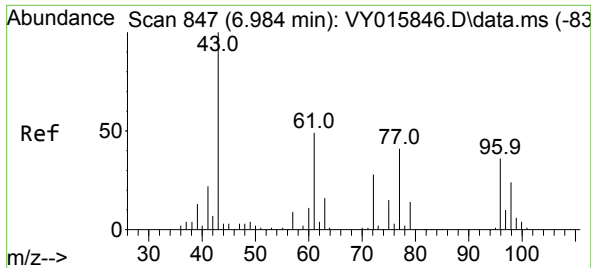
Tgt Ion: 76 Resp: 500  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.4#



#20  
Methylene Chloride  
Concen: 9.283 ug/l  
RT: 4.710 min Scan# 474  
Delta R.T. 0.000 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

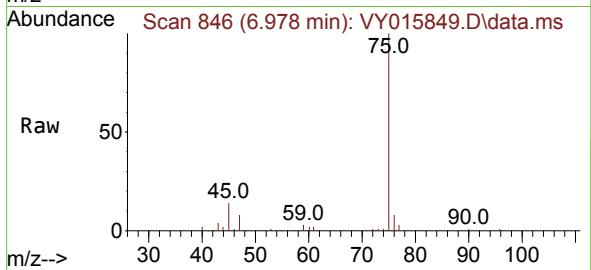
Tgt Ion: 84 Resp: 34703  
Ion Ratio Lower Upper  
84 100  
49 121.5 106.9 160.3  
51 35.1 33.2 49.8  
86 62.5 51.0 76.6



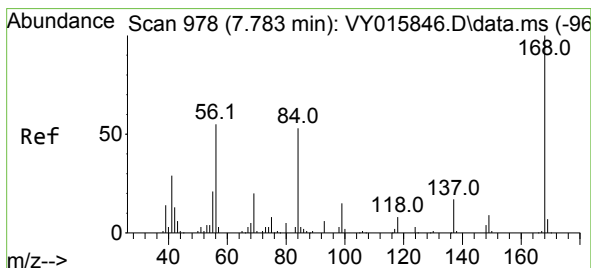
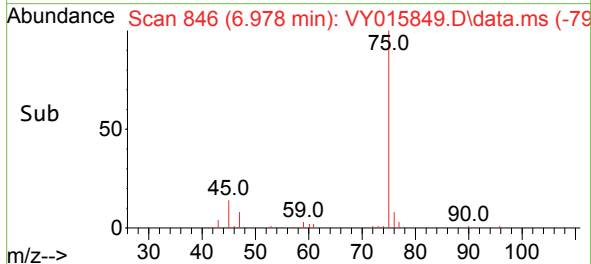
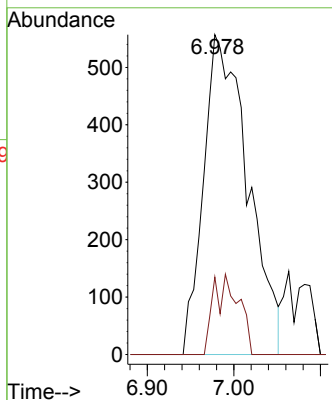


#25  
2-Butanone  
Concen: 1.313 ug/l  
RT: 6.978 min Scan# 847  
Delta R.T. -0.006 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

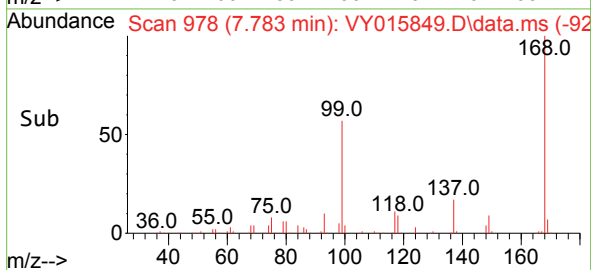
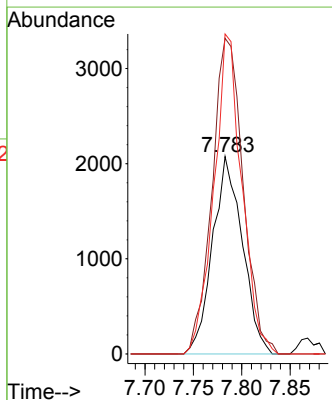
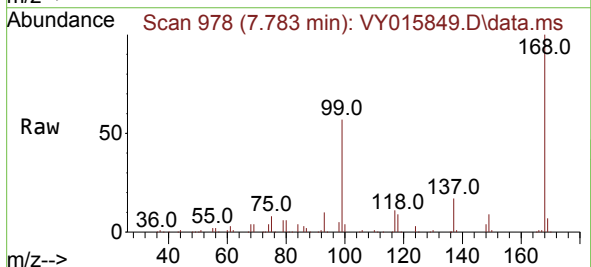


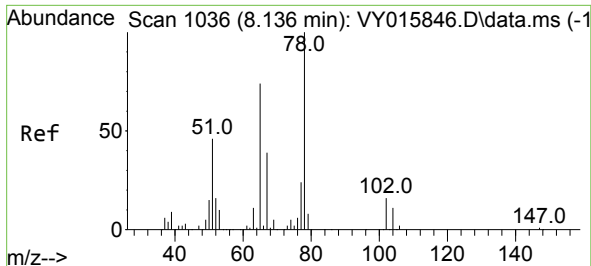
Tgt Ion: 43 Resp: 1981  
Ion Ratio Lower Upper  
43 100  
72 24.2 20.5 30.7



#31  
Cyclohexane  
Concen: 1.866 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. 0.000 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Tgt Ion: 56 Resp: 4454  
Ion Ratio Lower Upper  
56 100  
69 159.8 27.8 41.6#  
84 162.0 66.4 99.6#

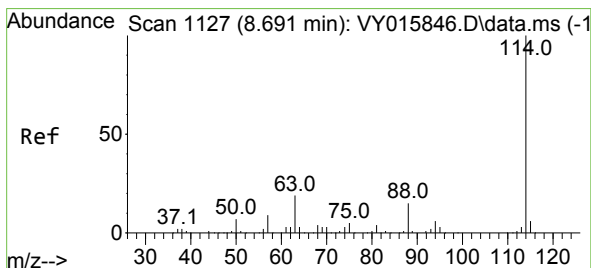
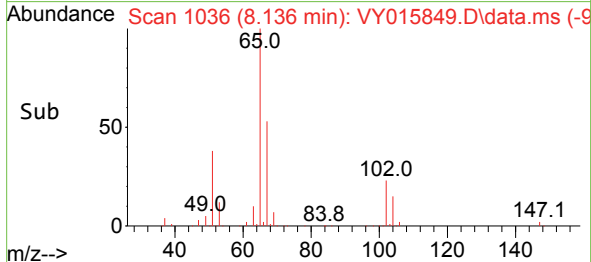
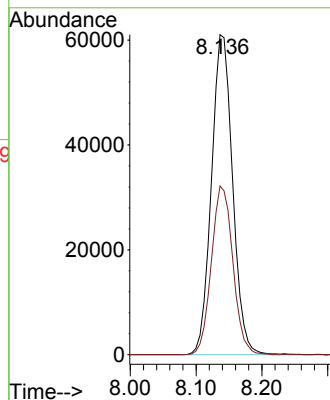
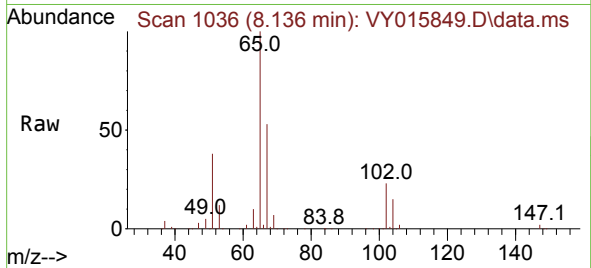




#33  
 1,2-Dichloroethane-d4  
 Concen: 64.534 ug/l  
 RT: 8.136 min Scan# 1036  
 Delta R.T. 0.000 min  
 Lab File: VY015849.D  
 Acq: 05 Oct 2023 14:56

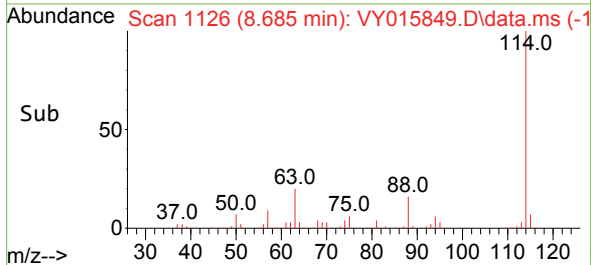
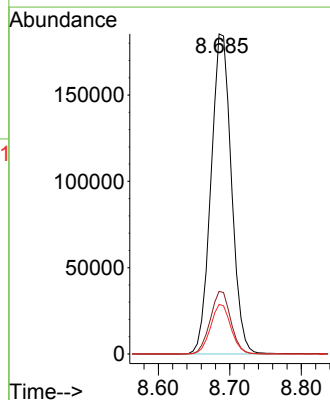
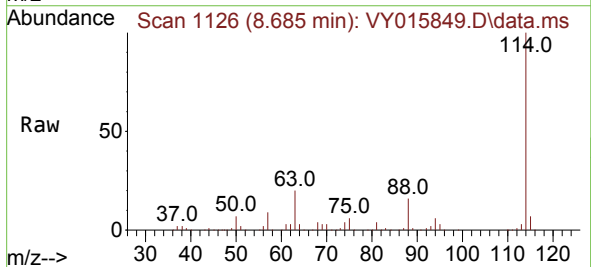
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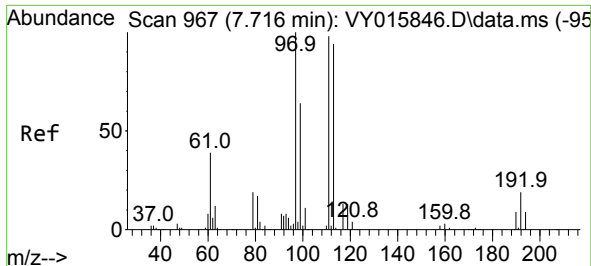
Tgt Ion: 65 Resp: 136674  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. -0.006 min  
 Lab File: VY015849.D  
 Acq: 05 Oct 2023 14:56

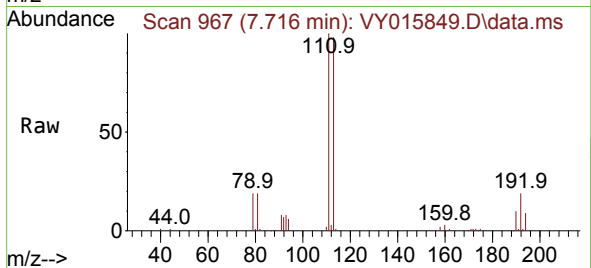
Tgt Ion: 114 Resp: 367998  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 42.4  
 88 15.5 0.0 30.6



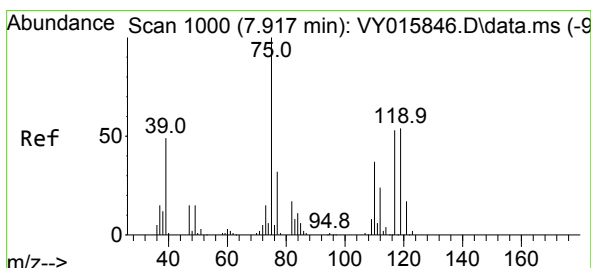
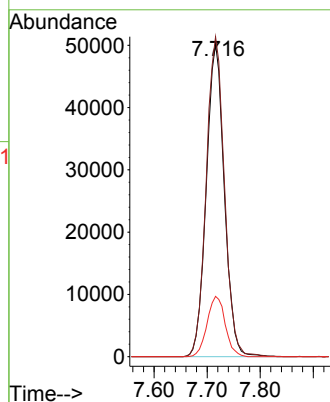
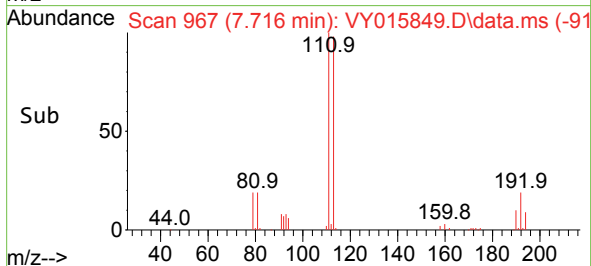


#35  
Dibromofluoromethane  
Concen: 56.471 ug/l  
RT: 7.716 min Scan# 910  
Delta R.T. 0.000 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Instrument :  
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ClientSampleId :

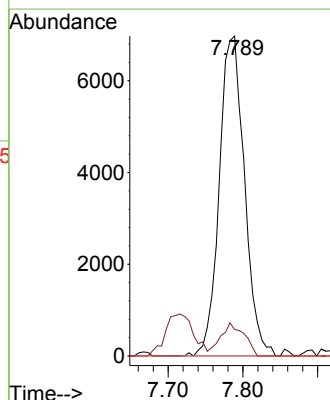
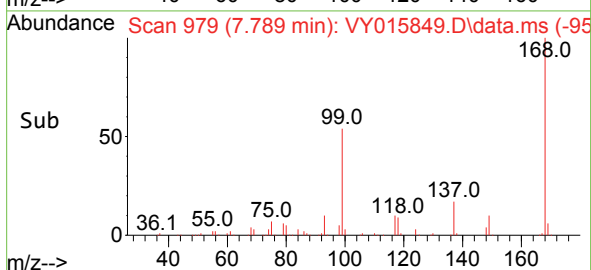
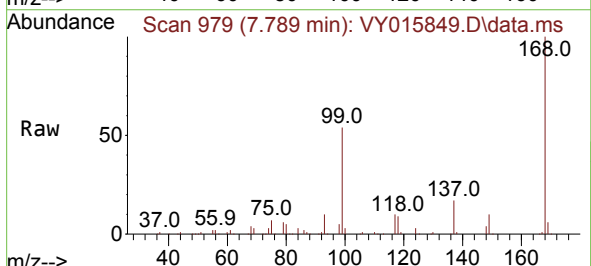


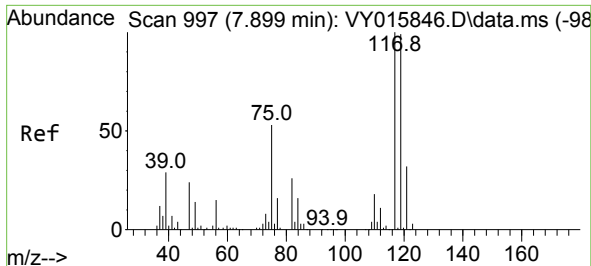
Tgt Ion:113 Resp: 118453  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.3 121.9  
192 19.4 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 6.540 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

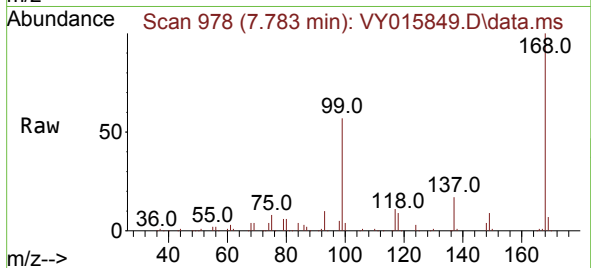
Tgt Ion: 75 Resp: 16367  
Ion Ratio Lower Upper  
75 100  
110 9.7 17.8 53.5#  
77 0.0 24.4 36.6#



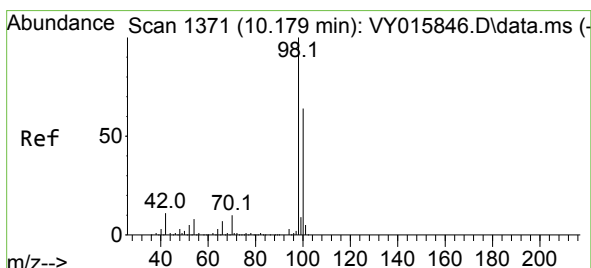
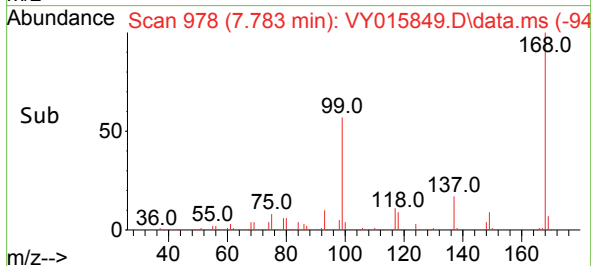
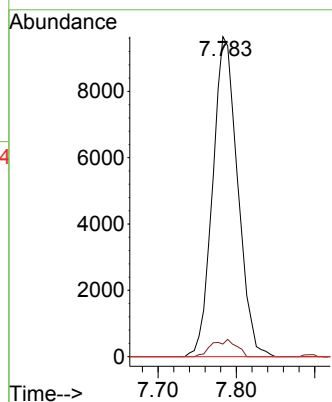


#38  
Carbon Tetrachloride  
Concen: 7.272 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Instrument :  
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ClientSampleId :

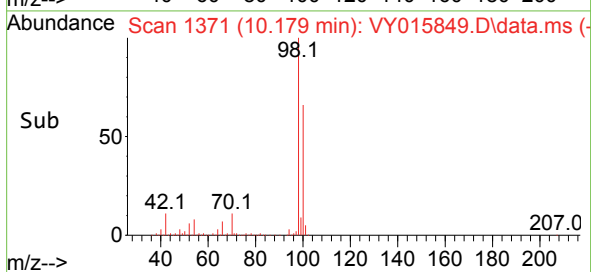
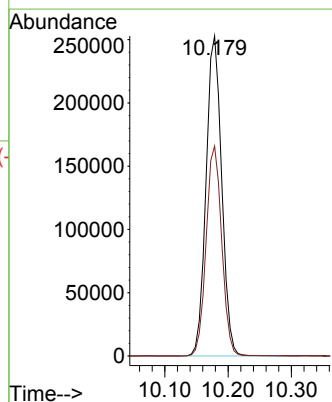
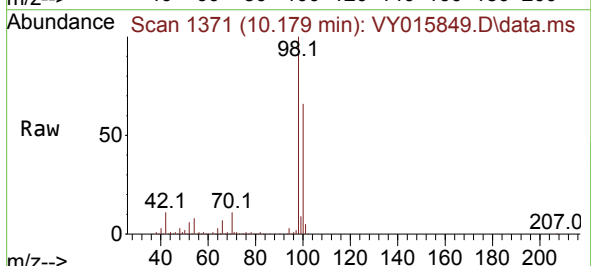


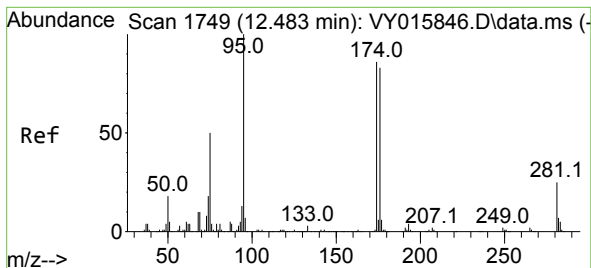
Tgt Ion:117 Resp: 21398  
Ion Ratio Lower Upper  
117 100  
119 4.0 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 63.833 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Tgt Ion: 98 Resp: 434724  
Ion Ratio Lower Upper  
98 100  
100 65.4 50.1 75.1

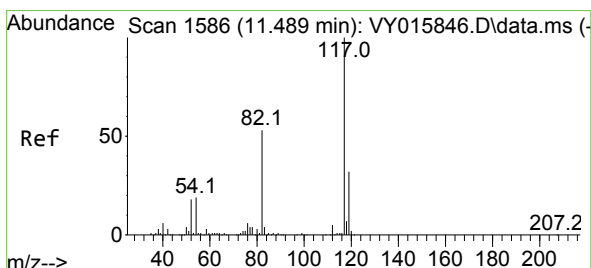
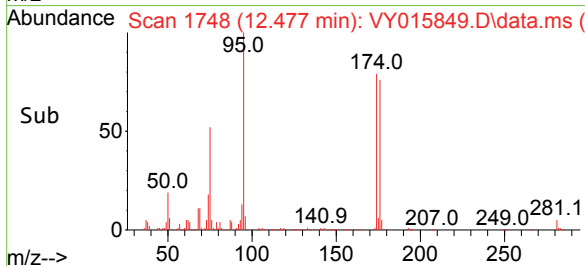
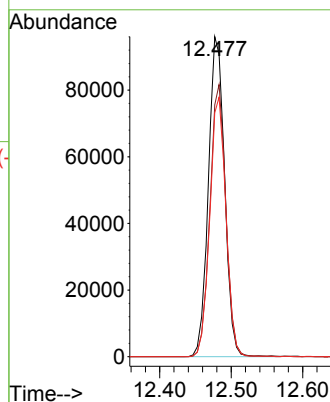
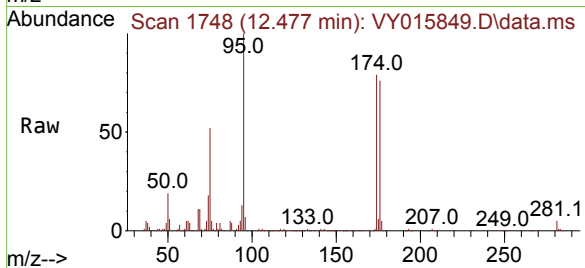




#62  
4-Bromofluorobenzene  
Concen: 54.249 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

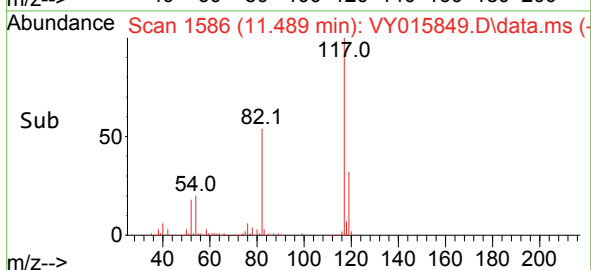
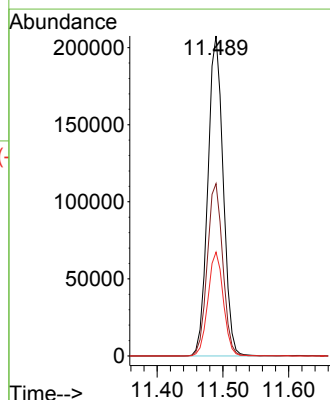
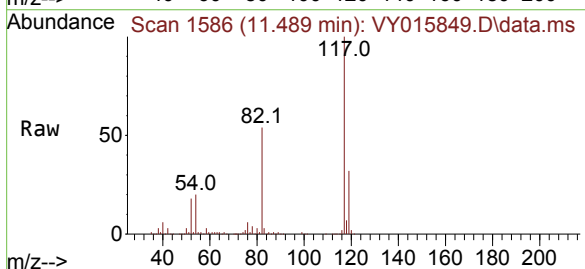
Instrument :  
MSVOA\_Y  
ClientSampleId :

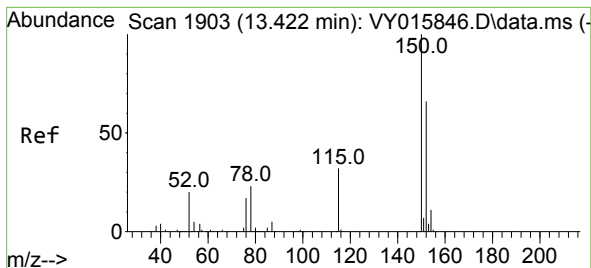
Tgt Ion: 95 Resp: 151016  
Ion Ratio Lower Upper  
95 100  
174 83.9 0.0 178.2  
176 80.8 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Tgt Ion: 117 Resp: 337277  
Ion Ratio Lower Upper  
117 100  
82 53.9 43.4 65.0  
119 32.4 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

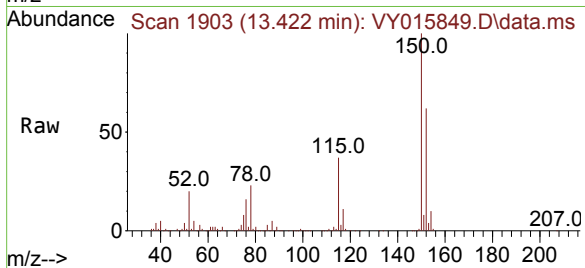
Lab File: VY015849.D

Acq: 05 Oct 2023 14:56

Instrument :

MSVOA\_Y

ClientSampleId :



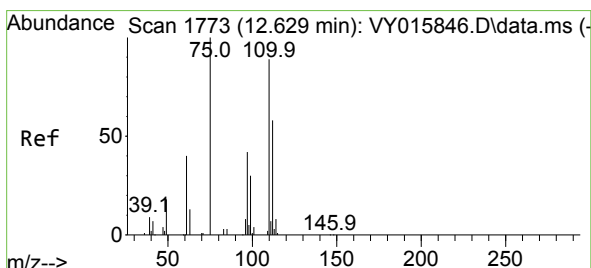
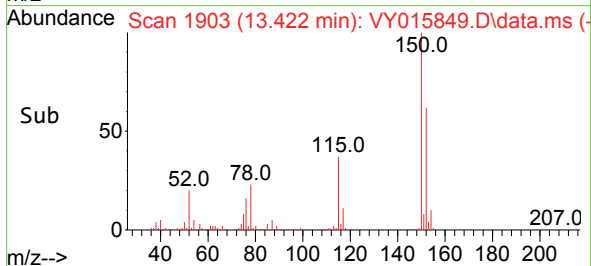
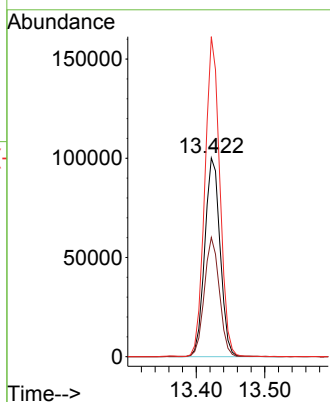
Tgt Ion:152 Resp: 156171

Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 156.6 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 33.889 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015849.D

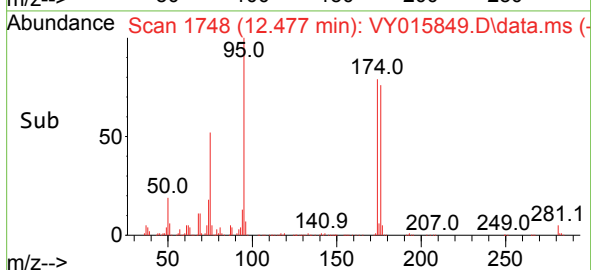
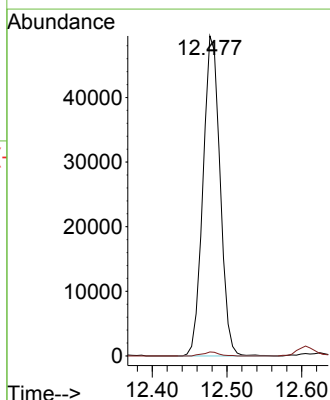
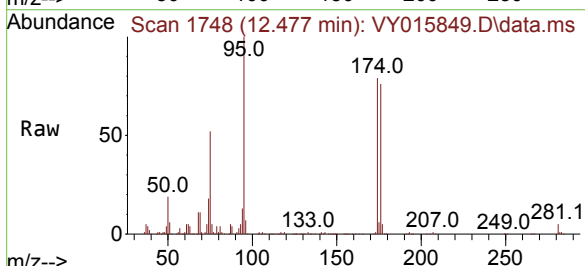
Acq: 05 Oct 2023 14:56

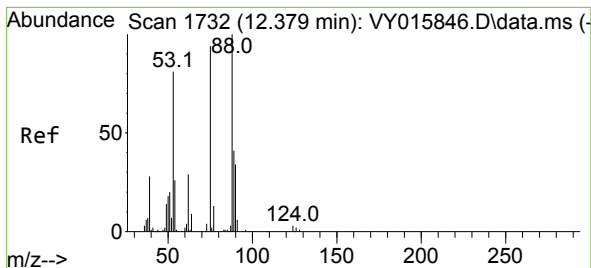
Tgt Ion: 75 Resp: 78347

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

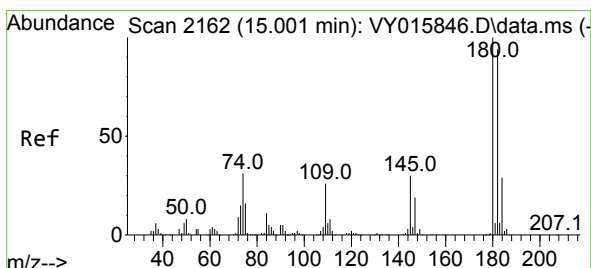
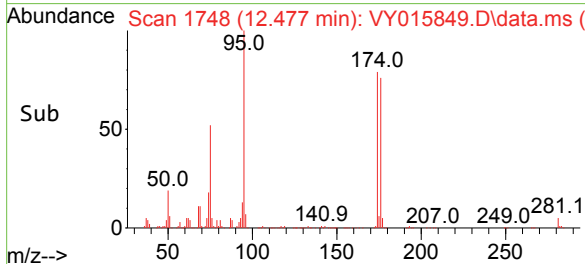
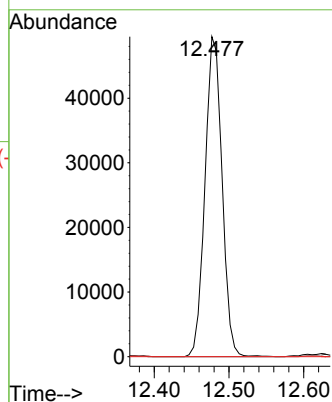
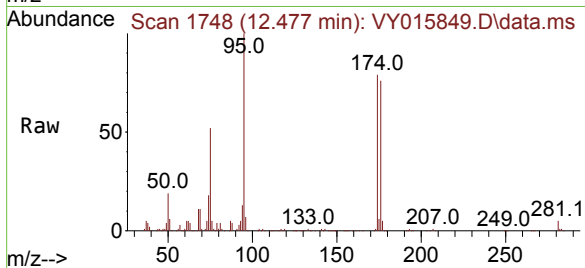




#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.449 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.098 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

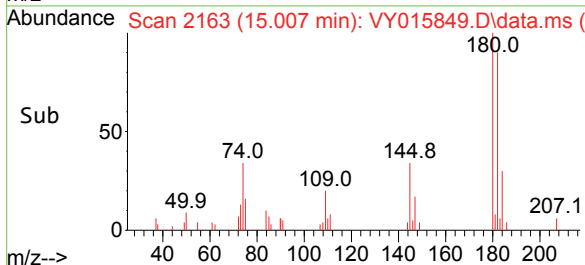
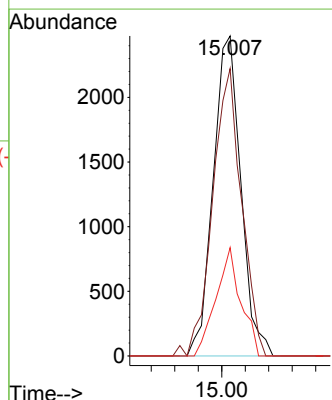
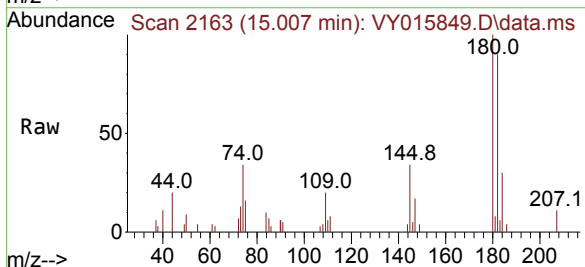
Instrument :  
MSVOA\_Y  
ClientSampleId :

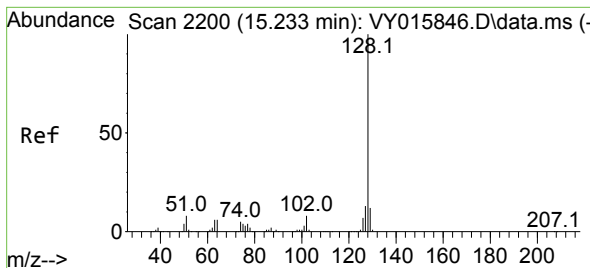
Tgt Ion: 75 Resp: 78347  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.318 ug/l  
RT: 15.007 min Scan# 2163  
Delta R.T. 0.006 min  
Lab File: VY015849.D  
Acq: 05 Oct 2023 14:56

Tgt Ion:180 Resp: 4049  
Ion Ratio Lower Upper  
180 100  
182 93.8 47.0 141.2  
145 30.5 14.5 43.5





#95

Naphthalene

Concen: 2.023 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. 0.000 min

Lab File: VY015849.D

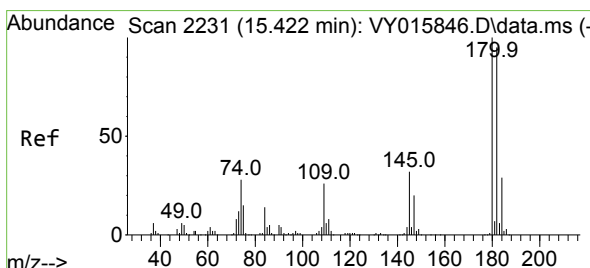
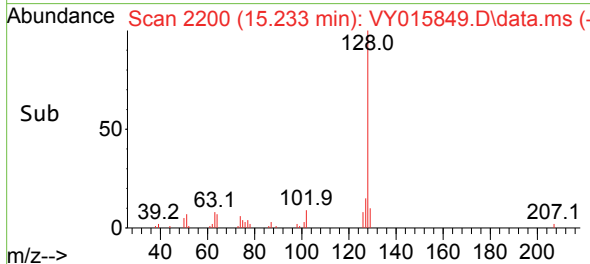
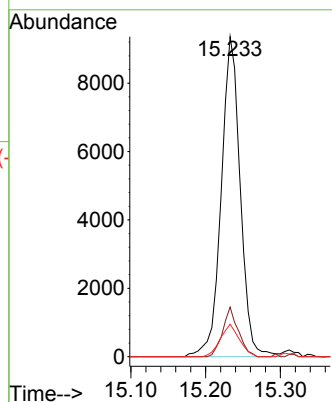
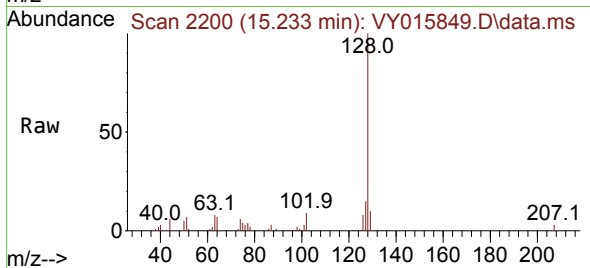
Acq: 05 Oct 2023 14:56

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 16572     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 12.7  | 10.8 16.2 |
| 129         | 10.1  | 8.6 13.0  |



#96

1,2,3-Trichlorobenzene

Concen: 1.586 ug/l

RT: 15.422 min Scan# 2231

Delta R.T. 0.000 min

Lab File: VY015849.D

Acq: 05 Oct 2023 14:56

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 4564       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 85.8  | 47.3 141.8 |
| 145         | 31.9  | 15.4 46.2  |

