

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091823\  
 Data File : VX037786.D  
 Acq On : 18 Sep 2023 19:10  
 Operator : JC/MD  
 Sample : 04389-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Sep 19 07:25:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 16 04:55:44 2023  
 Response via : Initial Calibration

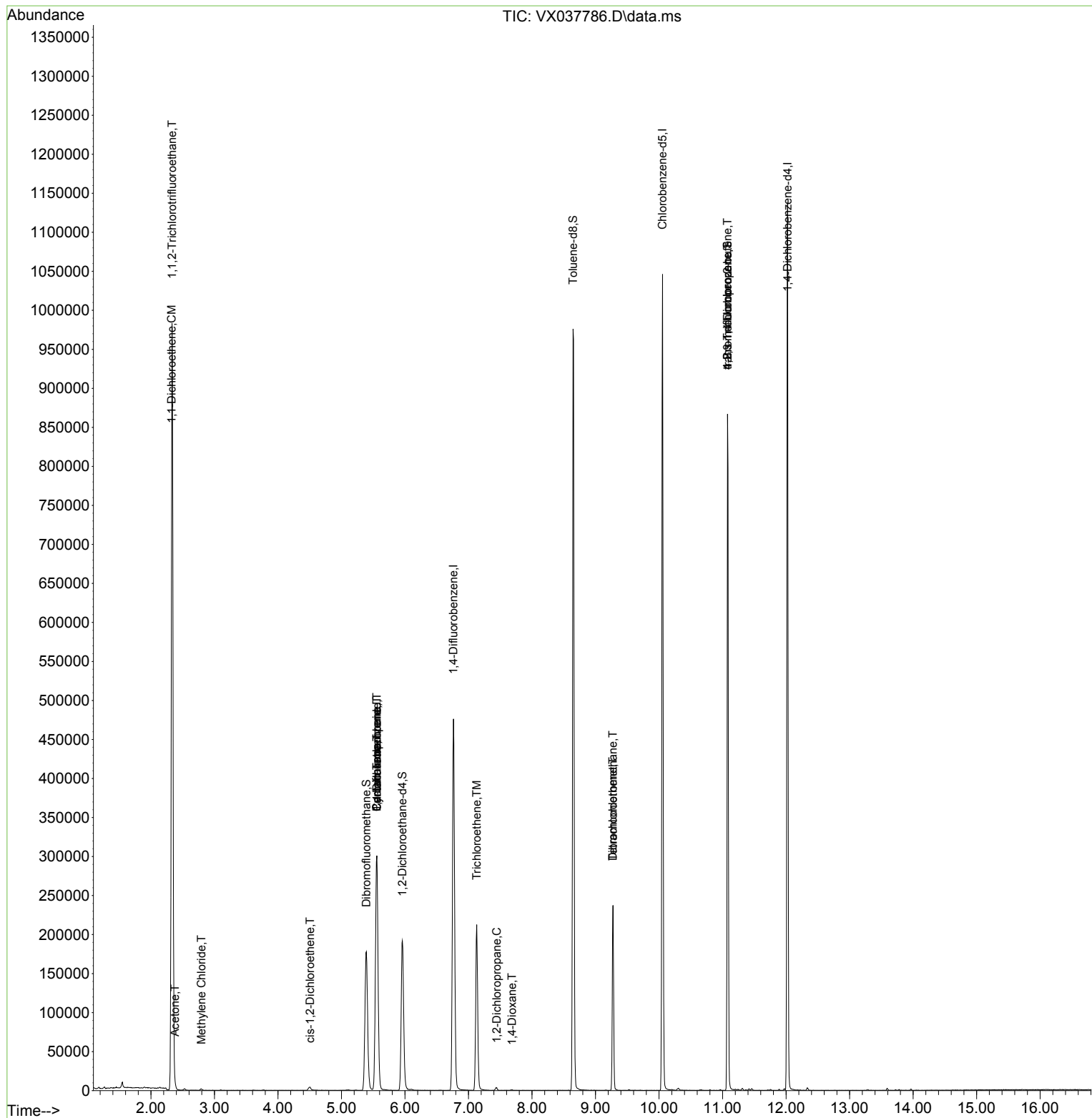
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 293210   | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 495768   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 473624   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 243905   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 184961   | 48.013   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =     | 96.020%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 156826   | 47.276   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =     | 94.560%  |
| 50) Toluene-d8                | 8.647  | 98    | 603057   | 48.928   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =     | 97.860%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 227523   | 50.799   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =     | 101.600% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 384287   | 129.834  | ug/l  | 96       |
| 12) 1,1-Dichloroethene        | 2.325  | 96    | 2976     | 1.040    | ug/l  | # 71     |
| 16) Acetone                   | 2.380  | 43    | 2179     | 1.176    | ug/l  | 95       |
| 20) Methylene Chloride        | 2.794  | 84    | 905      | 0.239    | ug/l  | 97       |
| 27) cis-1,2-Dichloroethene    | 4.507  | 96    | 2926     | 0.751    | ug/l  | 77       |
| 31) Cyclohexane               | 5.556  | 56    | 6087     | 1.231    | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 21830    | 4.777    | ug/l  | # 51     |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 29401    | 6.149    | ug/l  | # 15     |
| 44) Trichloroethene           | 7.129  | 130   | 81868    | 20.920   | ug/l  | 97       |
| 45) 1,2-Dichloropropane       | 7.446  | 63    | 1490     | 0.408    | ug/l  | # 87     |
| 49) 1,4-Dioxane               | 7.683  | 88    | 473      | 4.698    | ug/l  | # 97     |
| 60) Dibromochloromethane      | 9.275  | 129   | 41690    | 10.960   | ug/l  | # 11     |
| 64) Tetrachloroethene         | 9.275  | 164   | 43207    | 13.377   | ug/l  | 93       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 115069   | 20.398   | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 115069   | 65.341   | ug/l  | # 5      |
| -----                         |        |       |          |          |       |          |

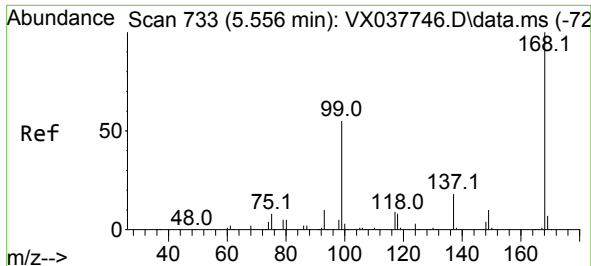
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
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Quant Time: Sep 19 07:25:17 2023  
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Quant Title : SW846 8260  
QLast Update : Sat Sep 16 04:55:44 2023  
Response via : Initial Calibration





#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.556 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX037786.D

Acq: 18 Sep 2023 19:10

Instrument :

MSVOA\_X

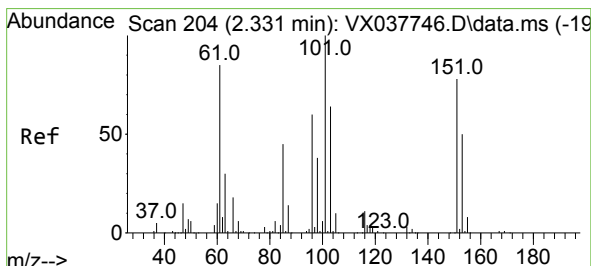
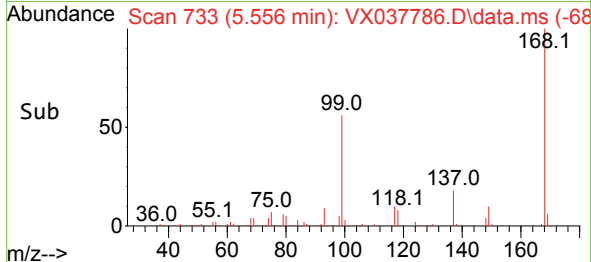
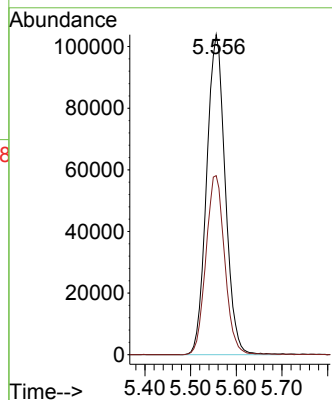
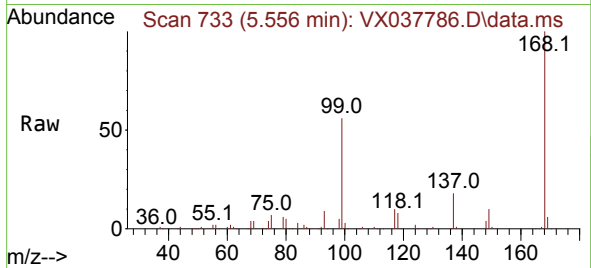
ClientSampleId :

Tgt Ion:168 Resp: 293210

Ion Ratio Lower Upper

168 100

99 56.0 56.6 85.0#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 129.834 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.000 min

Lab File: VX037786.D

Acq: 18 Sep 2023 19:10

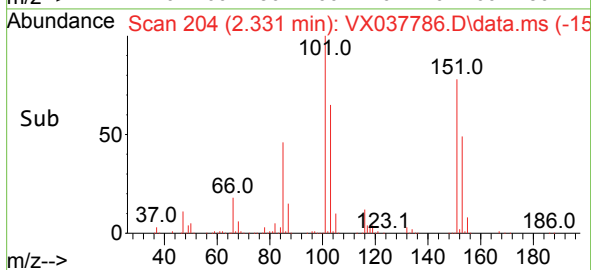
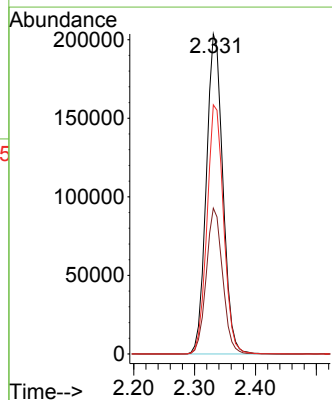
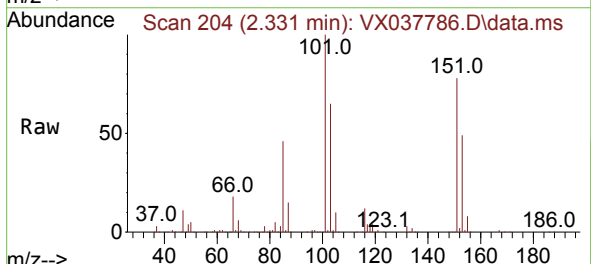
Tgt Ion:101 Resp: 384287

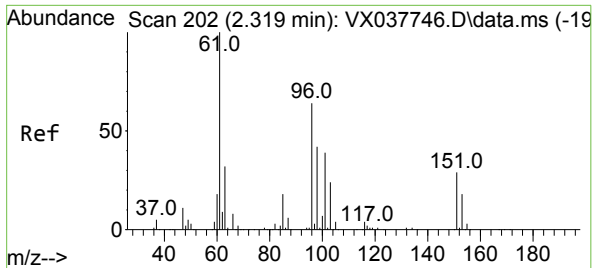
Ion Ratio Lower Upper

101 100

85 45.1 37.0 55.6

151 78.1 58.6 87.8





#12

1,1-Dichloroethene

Concen: 1.040 ug/l

RT: 2.325 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX037786.D

Acq: 18 Sep 2023 19:10

Instrument :

MSVOA\_X

ClientSampleId :

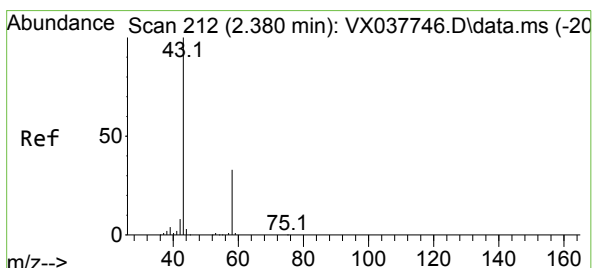
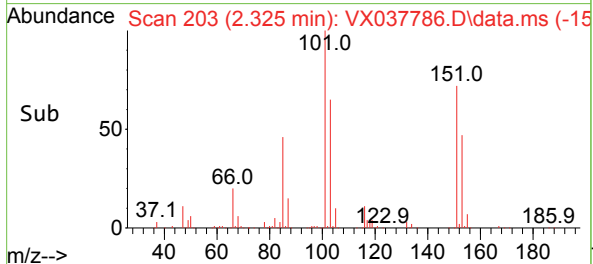
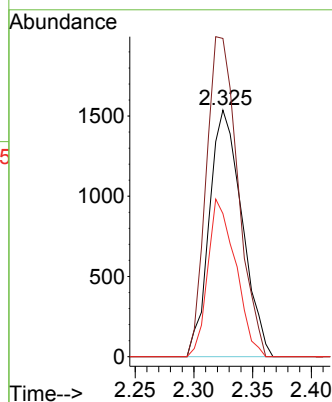
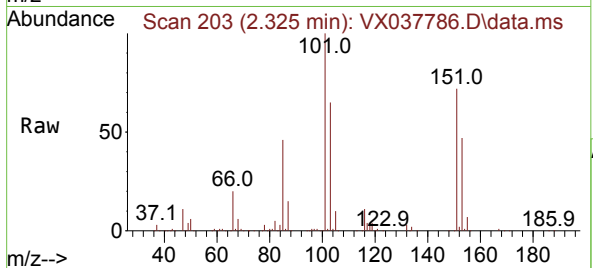
Tgt Ion: 96 Resp: 2976

Ion Ratio Lower Upper

96 100

61 129.1 144.6 216.8#

98 58.0 50.4 75.6



#16

Acetone

Concen: 1.176 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX037786.D

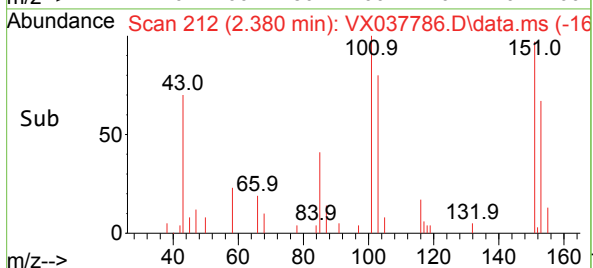
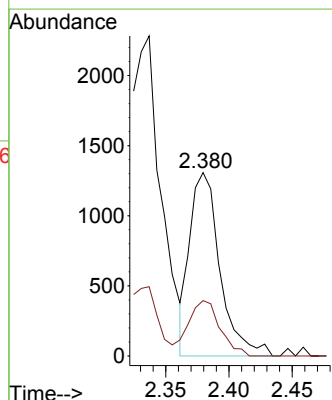
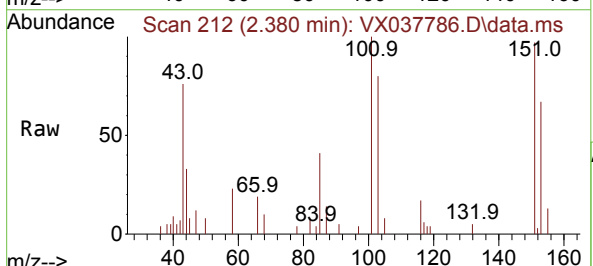
Acq: 18 Sep 2023 19:10

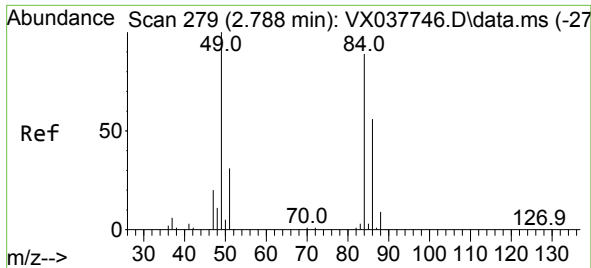
Tgt Ion: 43 Resp: 2179

Ion Ratio Lower Upper

43 100

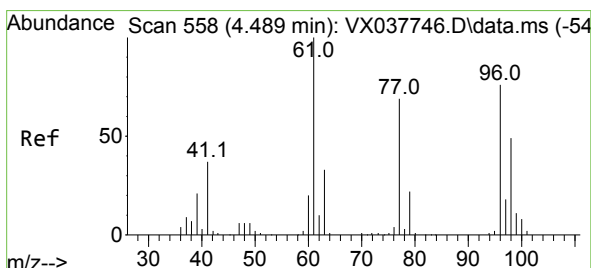
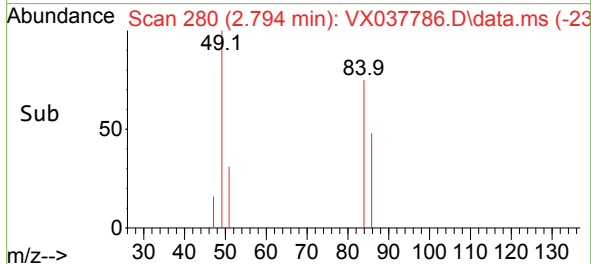
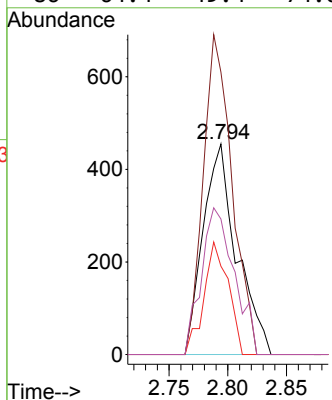
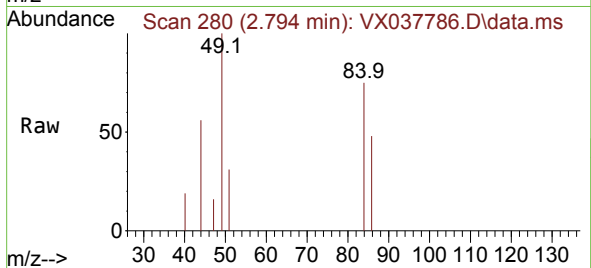
58 30.2 21.9 32.9





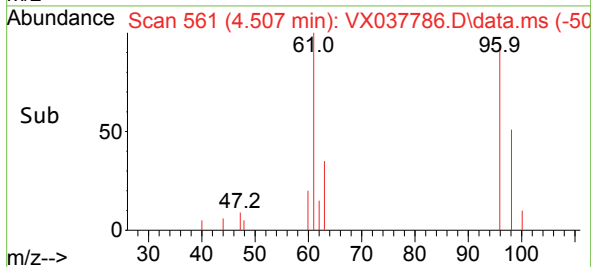
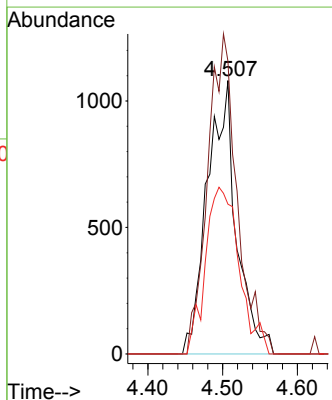
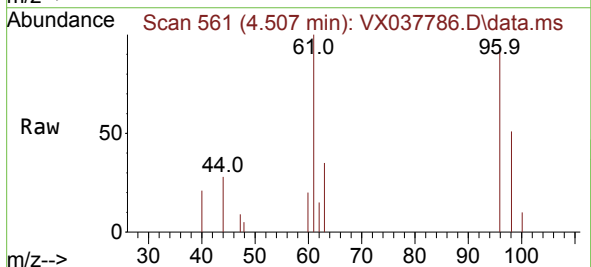
#20  
Methylene Chloride  
Concen: 0.239 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

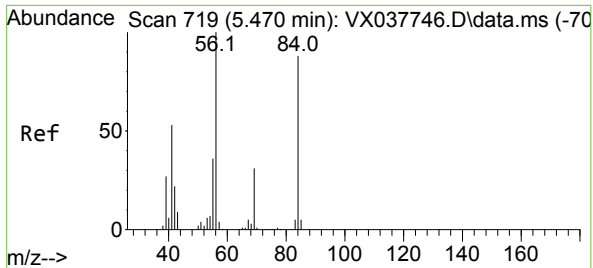
Instrument :  
MSVOA\_X  
ClientSampleId :



#27  
cis-1,2-Dichloroethene  
Concen: 0.751 ug/l  
RT: 4.507 min Scan# 561  
Delta R.T. 0.018 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

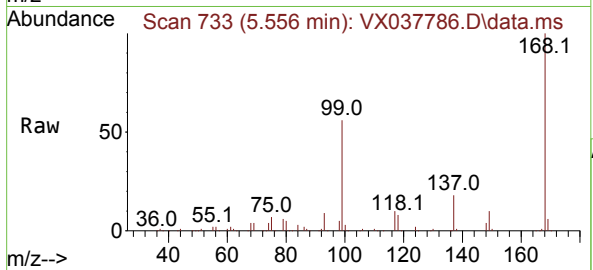
| Tgt Ion: 96 | Resp: 2926 |       |       |
|-------------|------------|-------|-------|
| Ion         | Ratio      | Lower | Upper |
| 96          | 100        |       |       |
| 61          | 118.3      | 0.0   | 312.2 |
| 98          | 70.7       | 0.0   | 129.0 |



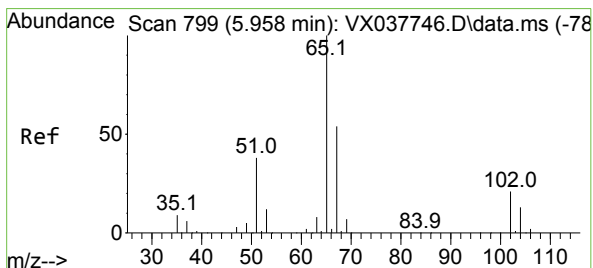
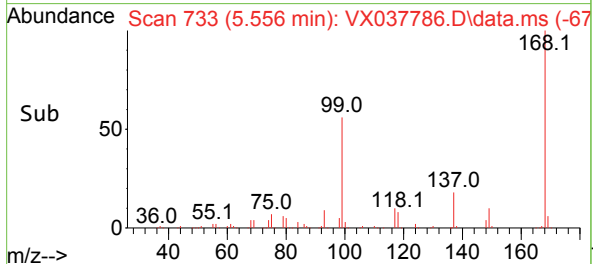
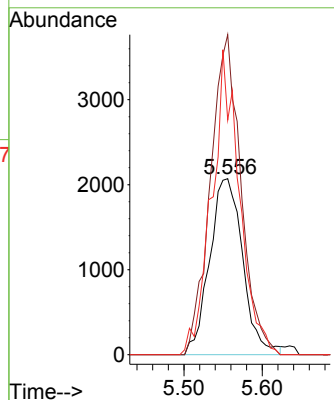


#31  
Cyclohexane  
Concen: 1.231 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

Instrument :  
MSVOA\_X  
ClientSampleId :

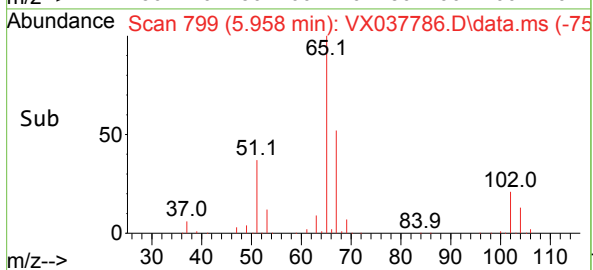
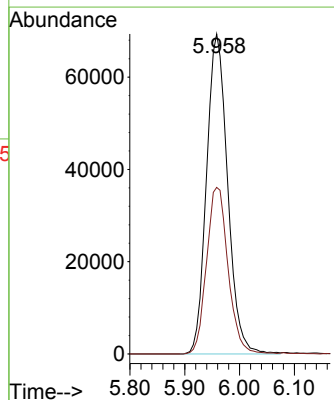
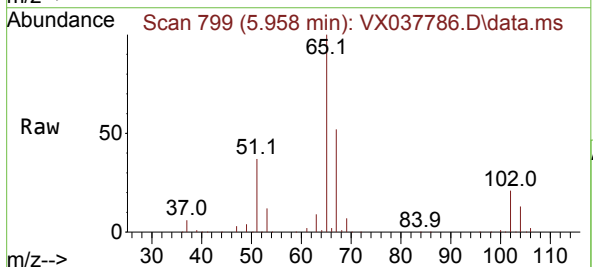


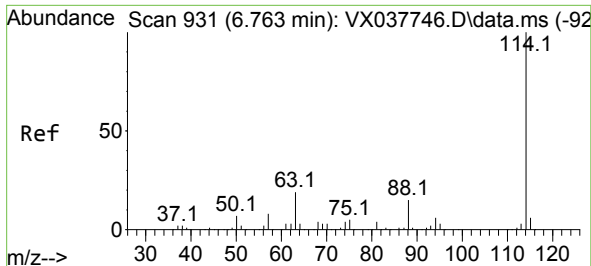
Tgt Ion: 56 Resp: 6087  
Ion Ratio Lower Upper  
56 100  
69 181.9 23.4 35.2#  
84 133.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 48.013 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

Tgt Ion: 65 Resp: 184961  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 100.2

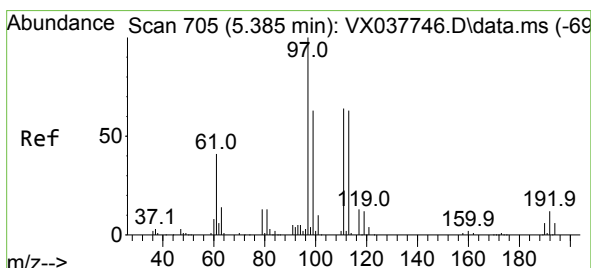
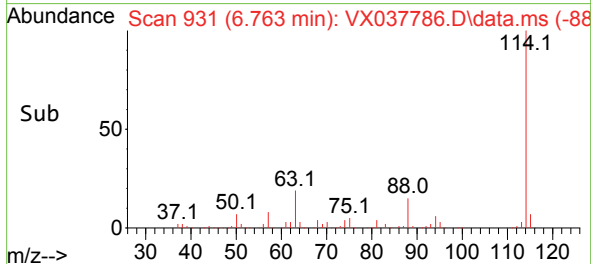
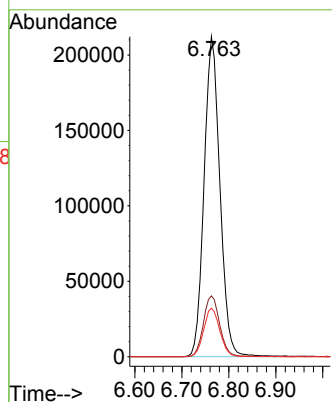
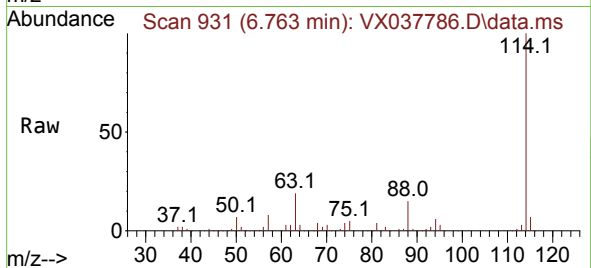




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

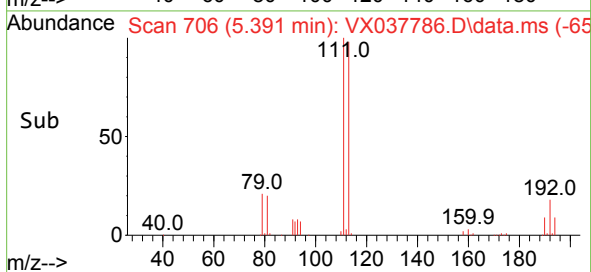
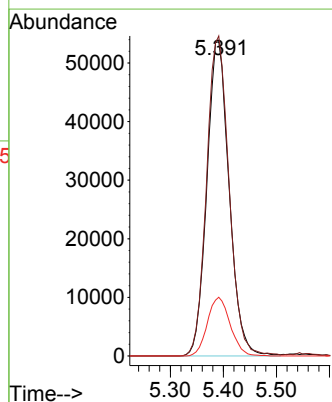
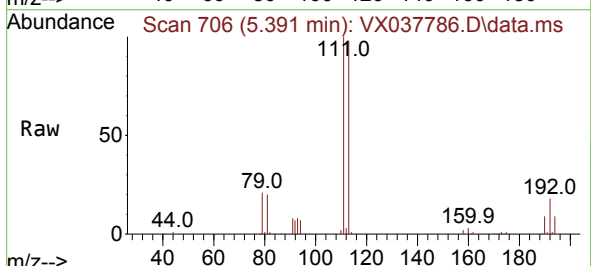
Instrument :  
MSVOA\_X  
ClientSampleId :

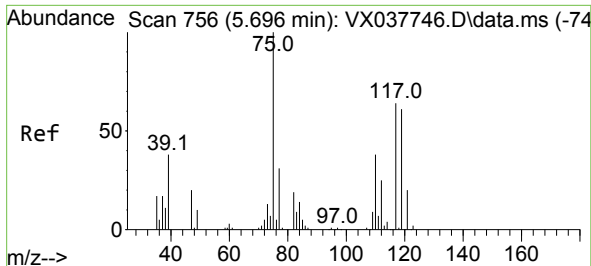
Tgt Ion:114 Resp: 495768  
Ion Ratio Lower Upper  
114 100  
63 19.0 0.0 45.0  
88 15.2 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 47.276 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

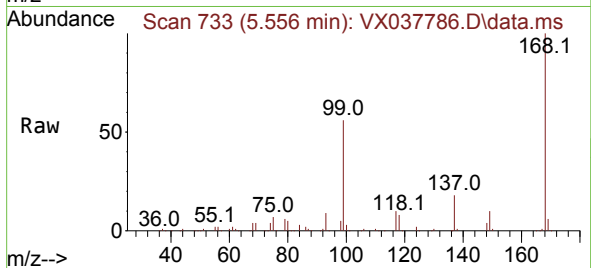
Tgt Ion:113 Resp: 156826  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.9 124.3  
192 19.1 13.3 19.9



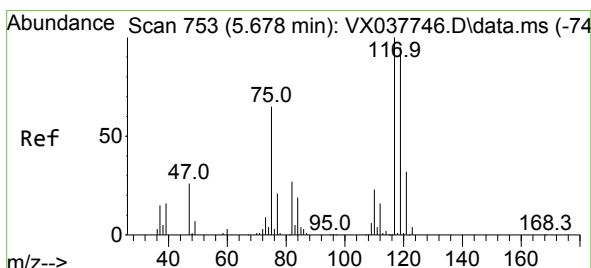
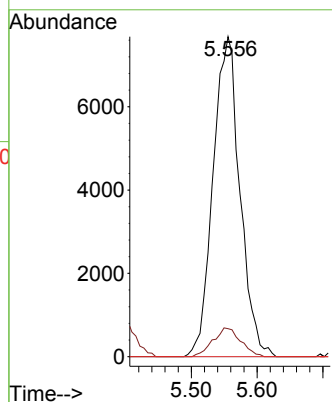
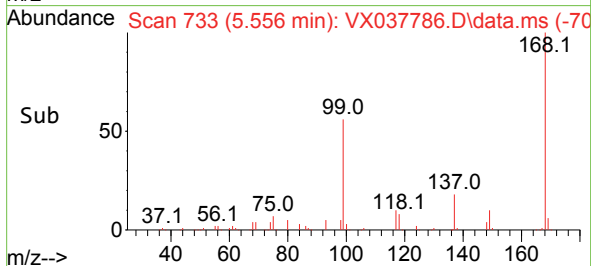


#36  
1,1-Dichloropropene  
Concen: 4.777 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

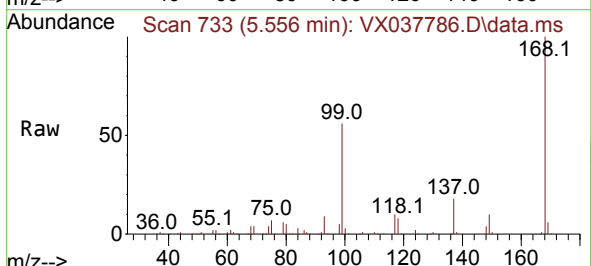
Instrument :  
MSVOA\_X  
ClientSampleId :



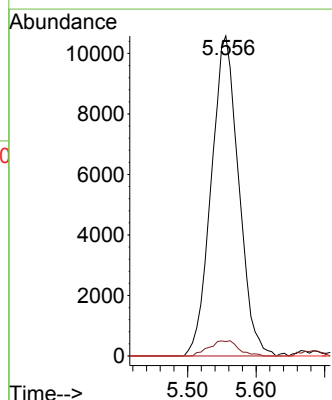
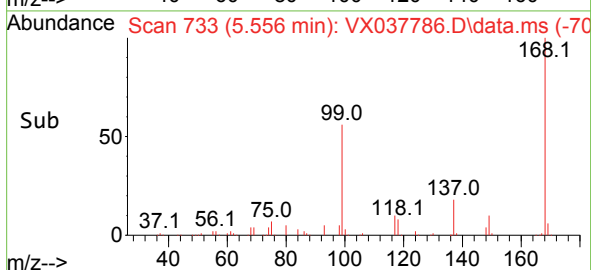
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Ion Ratio Lower Upper  
75 100  
110 9.3 17.0 50.9#  
77 0.0 24.7 37.1#

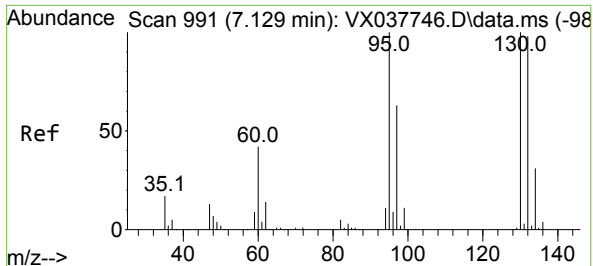


#38  
Carbon Tetrachloride  
Concen: 6.149 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10



Tgt Ion: 117 Resp: 29401  
Ion Ratio Lower Upper  
117 100  
119 4.5 78.2 117.2#  
121 0.0 24.4 36.6#

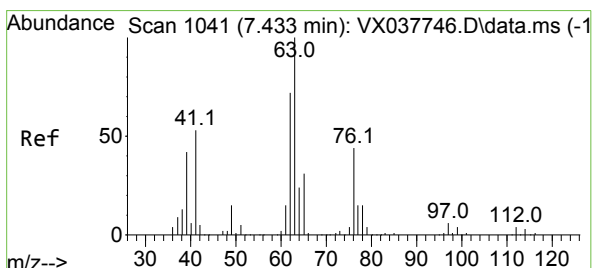
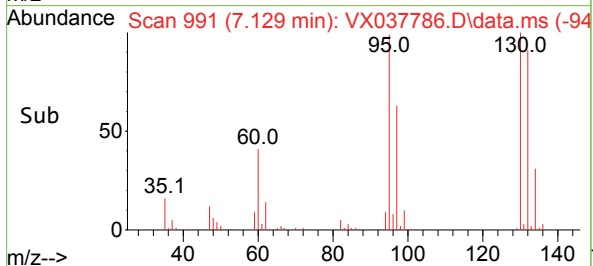
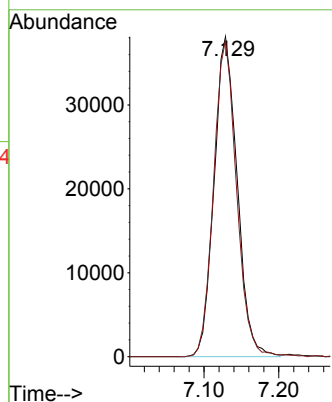
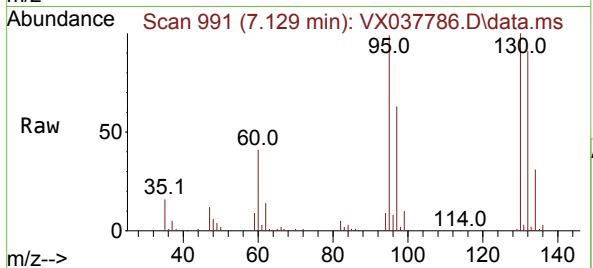




#44  
Trichloroethene  
Concen: 20.920 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.006 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

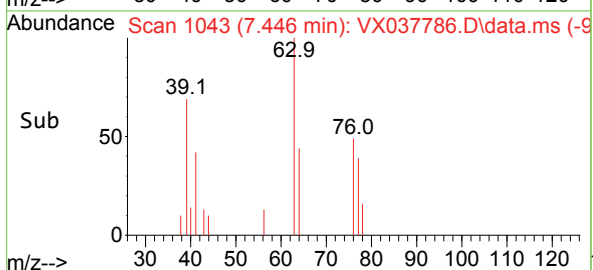
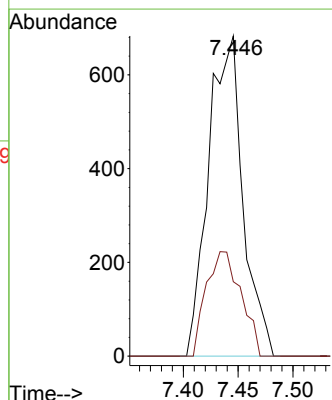
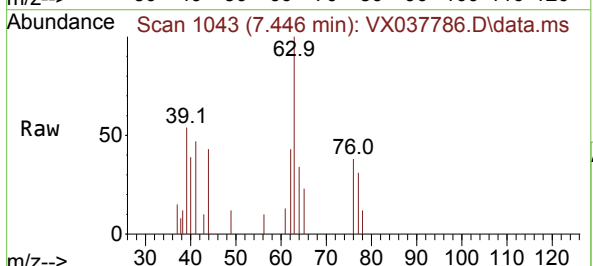
Instrument :  
MSVOA\_X  
ClientSampleId :

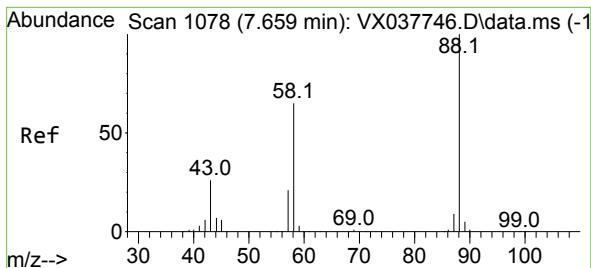
Tgt Ion:130 Resp: 81868  
Ion Ratio Lower Upper  
130 100  
95 99.0 0.0 204.4



#45  
1,2-Dichloropropane  
Concen: 0.408 ug/l  
RT: 7.446 min Scan# 1043  
Delta R.T. 0.012 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

Tgt Ion: 63 Resp: 1490  
Ion Ratio Lower Upper  
63 100  
65 23.3 24.3 36.5#





#49

1,4-Dioxane

Concen: 4.698 ug/l

RT: 7.683 min Scan# 1082

Delta R.T. 0.012 min

Lab File: VX037786.D

Acq: 18 Sep 2023 19:10

Instrument :

MSVOA\_X

ClientSampleId :

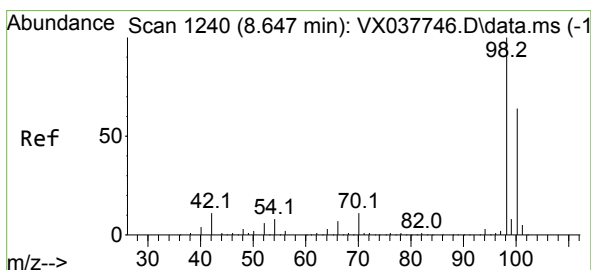
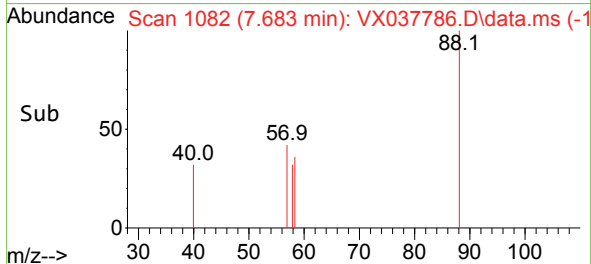
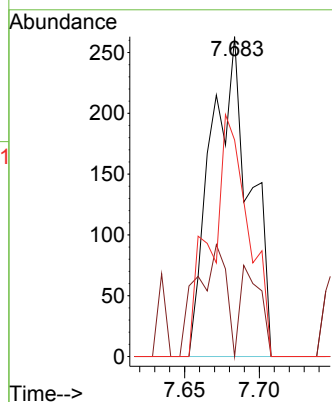
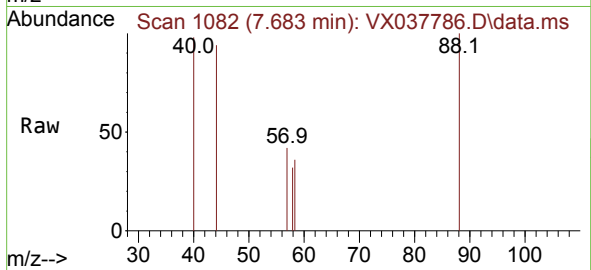
Tgt Ion: 88 Resp: 473

Ion Ratio Lower Upper

88 100

43 14.6 0.0 0.0#

58 72.5 60.1 90.1



#50

Toluene-d8

Concen: 48.928 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037786.D

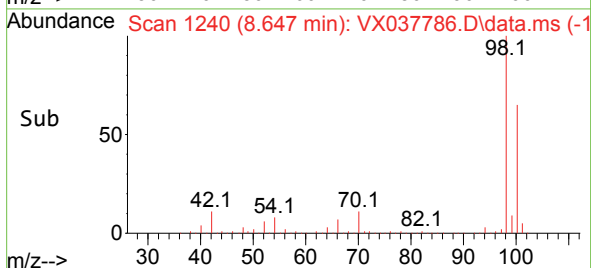
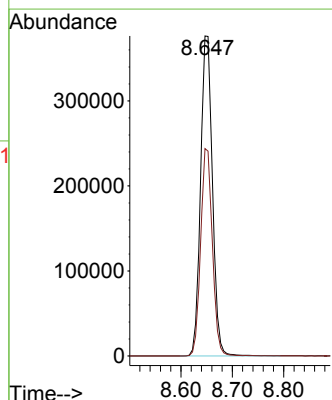
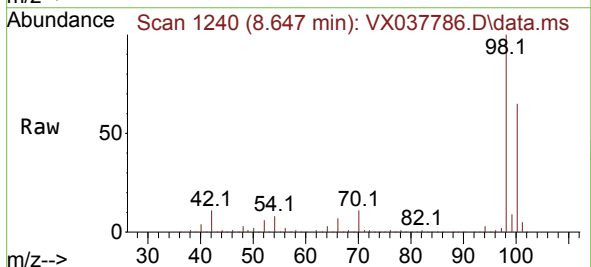
Acq: 18 Sep 2023 19:10

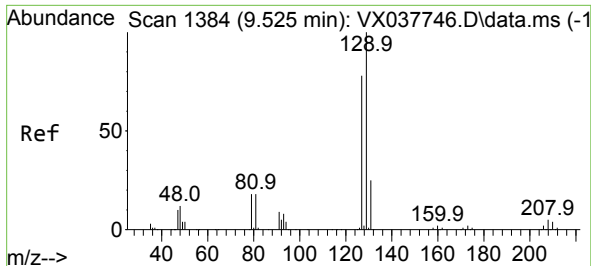
Tgt Ion: 98 Resp: 603057

Ion Ratio Lower Upper

98 100

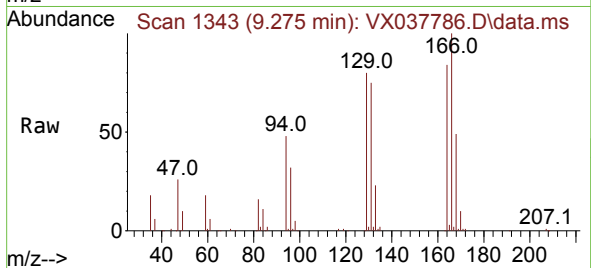
100 64.0 53.1 79.7



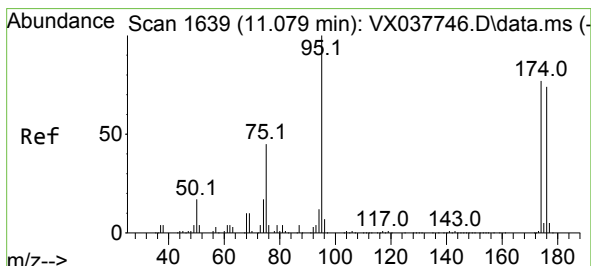
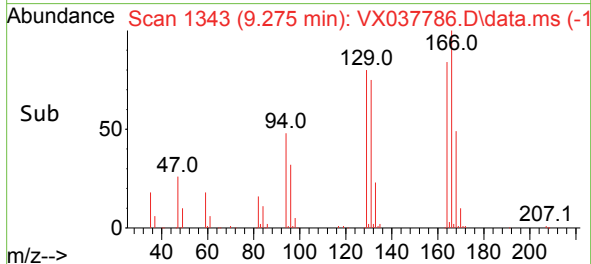
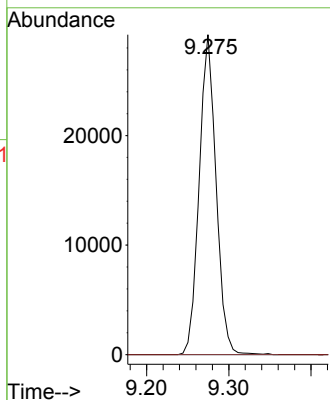


#60  
Dibromochloromethane  
Concen: 10.960 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.244 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

Instrument :  
MSVOA\_X  
ClientSampleId :

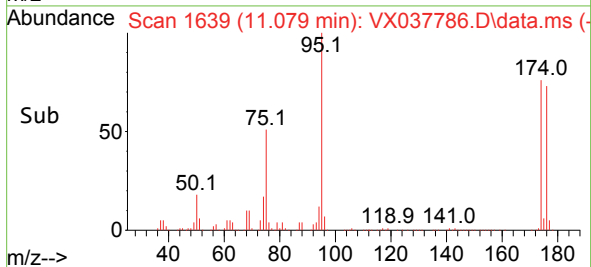
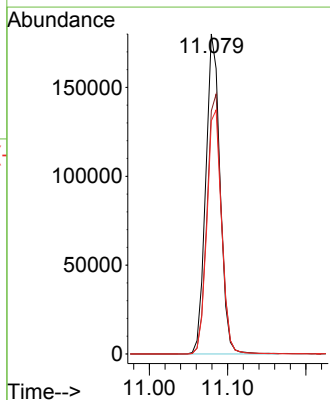
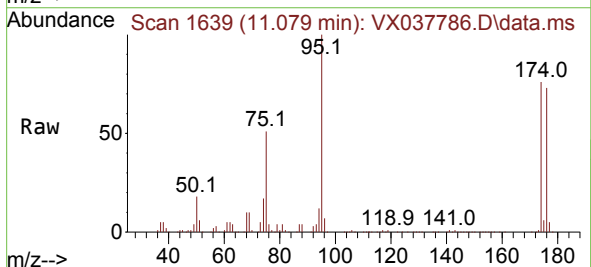


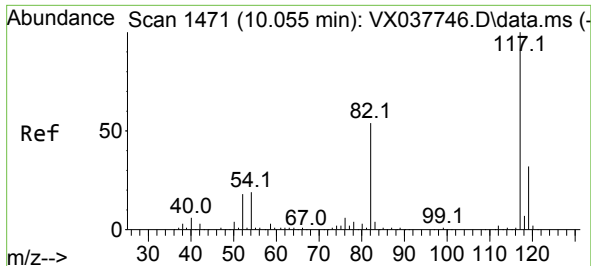
Tgt Ion:129 Resp: 41690  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 50.799 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

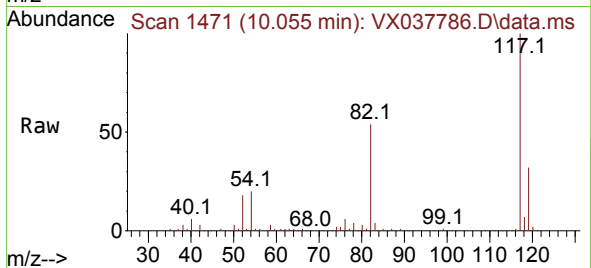
Tgt Ion: 95 Resp: 227523  
Ion Ratio Lower Upper  
95 100  
174 82.4 0.0 135.6  
176 78.4 0.0 131.0



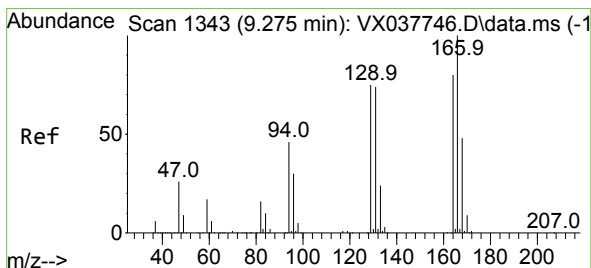
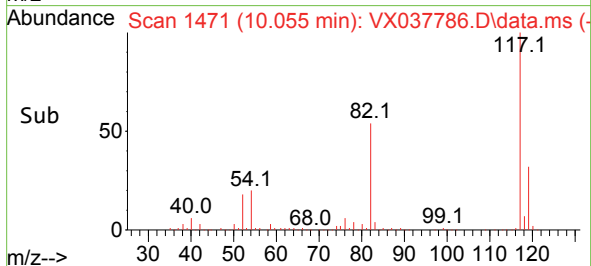
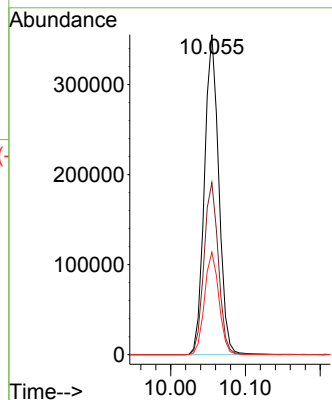


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

Instrument :  
MSVOA\_X  
ClientSampleId :

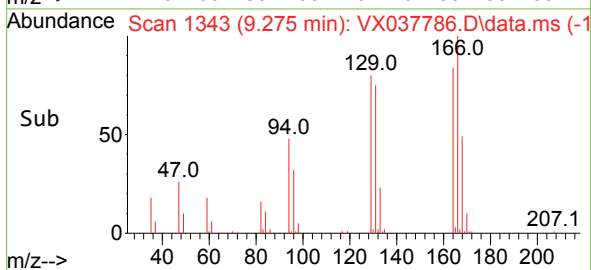
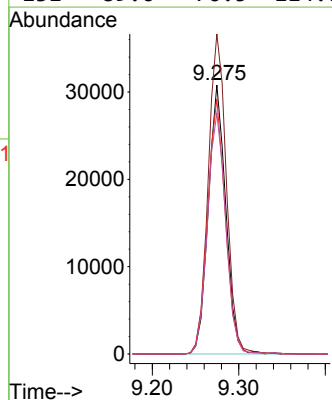
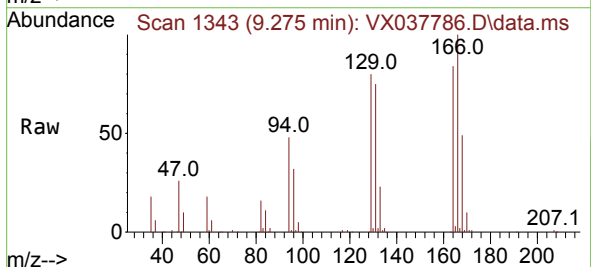


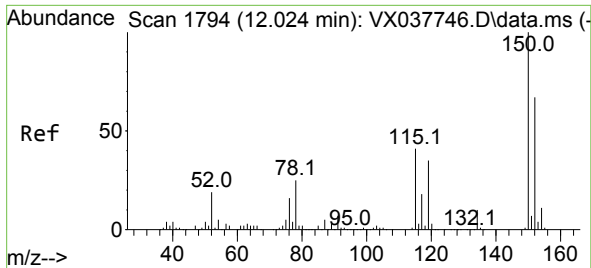
Tgt Ion:117 Resp: 473624  
Ion Ratio Lower Upper  
117 100  
82 53.8 46.2 69.4  
119 32.0 25.5 38.3



#64  
Tetrachloroethene  
Concen: 13.377 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX037786.D  
Acq: 18 Sep 2023 19:10

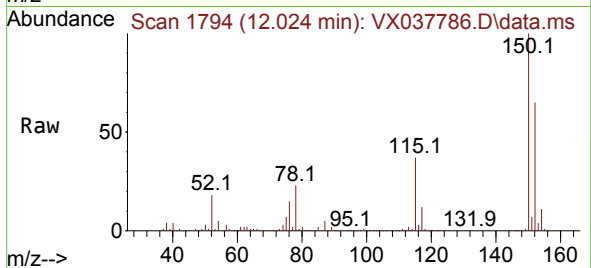
Tgt Ion:164 Resp: 43207  
Ion Ratio Lower Upper  
164 100  
166 119.0 102.7 154.1  
129 94.8 80.4 120.6  
131 89.6 76.5 114.7



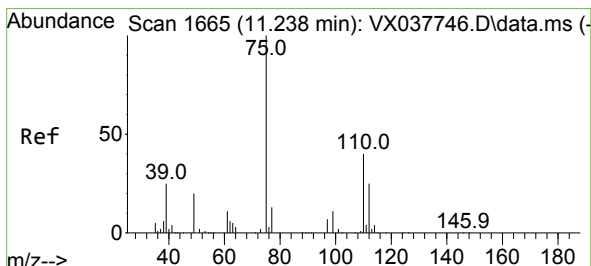
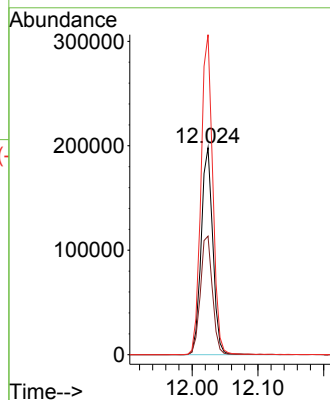
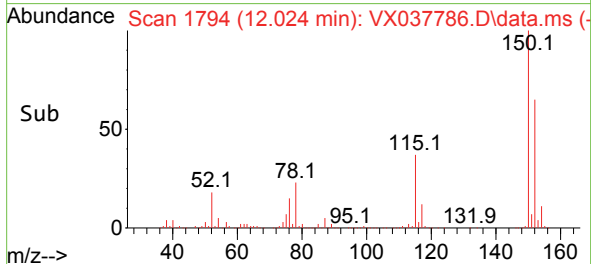


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX037786.D  
 Acq: 18 Sep 2023 19:10

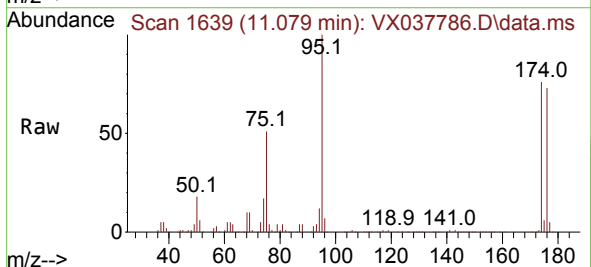
Instrument :  
 MSVOA\_X  
 ClientSampleId :



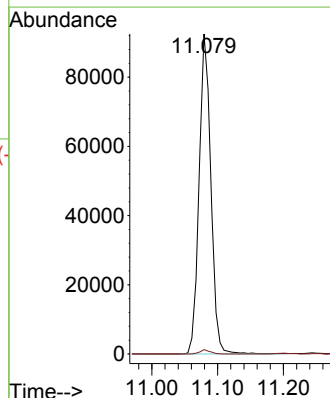
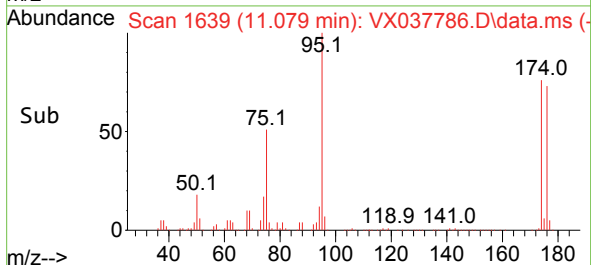
Tgt Ion:152 Resp: 243905  
 Ion Ratio Lower Upper  
 152 100  
 115 59.2 43.3 129.9  
 150 156.5 0.0 345.0

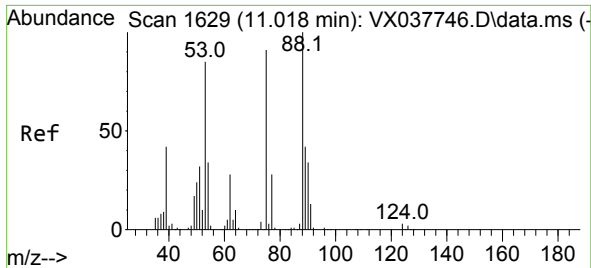


#76  
 1,2,3-Trichloropropane  
 Concen: 20.398 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX037786.D  
 Acq: 18 Sep 2023 19:10



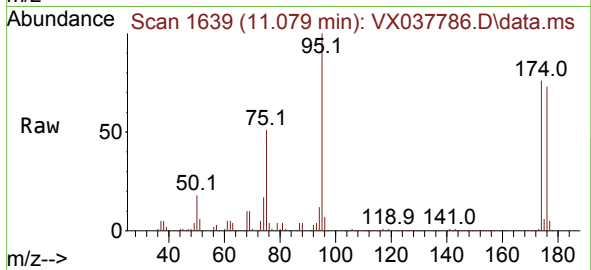
Tgt Ion: 75 Resp: 115069  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.341 ug/l  
 RT: 11.079 min Scan# 11  
 Delta R.T. 0.061 min  
 Lab File: VX037786.D  
 Acq: 18 Sep 2023 19:10

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 115069  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

