

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062623\  
 Data File : VX036331.D  
 Acq On : 26 Jun 2023 16:06  
 Operator : JC/MD  
 Sample : 03291-03DL 250X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 27 04:24:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

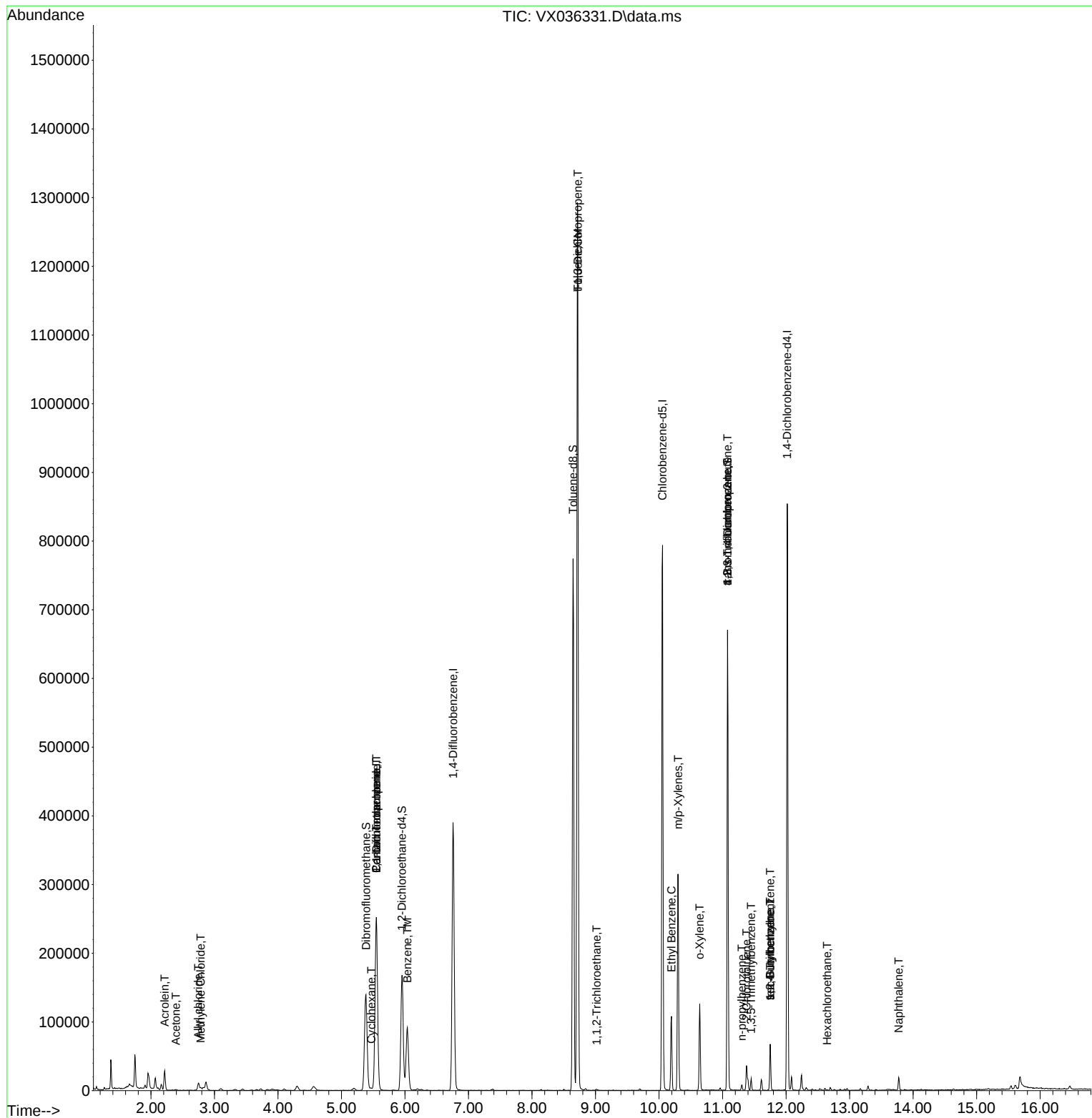
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 236965     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 395305     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 359849     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 175771     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 160767     | 47.330  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.660% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 123203     | 47.267  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.540% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 466971     | 47.966  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 95.940% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 171220     | 49.931  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 99.860% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 13) Acrolein                  | 2.215          | 56   | 817        | 0.962   | ug/l # | 1        |
| 14) Allyl chloride            | 2.745          | 41   | 2105       | 0.481   | ug/l # | 37       |
| 16) Acetone                   | 2.392          | 43   | 1755       | 1.209   | ug/l # | 85       |
| 20) Methylene Chloride        | 2.782          | 84   | 1218       | 0.390   | ug/l # | 72       |
| 31) Cyclohexane               | 5.471          | 56   | 1722       | 0.396   | ug/l # | 80       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 19063      | 4.906   | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 24646      | 6.945   | ug/l # | 15       |
| 40) Benzene                   | 6.038          | 78   | 108995     | 10.042  | ug/l   | 96       |
| 52) Toluene                   | 8.720          | 92   | 487618     | 70.891  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 8.720          | 75   | 5991       | 1.576   | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 9.019          | 97   | 1319       | 0.461   | ug/l # | 17       |
| 67) Ethyl Benzene             | 10.195         | 91   | 62787      | 4.669   | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299         | 106  | 71878      | 13.757  | ug/l   | 95       |
| 69) o-Xylene                  | 10.640         | 106  | 25946      | 5.142   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 88482      | 23.600  | ug/l # | 39       |
| 78) n-propylbenzene           | 11.305         | 91   | 4828       | 0.312   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 11.378         | 91   | 3079       | 0.335   | ug/l # | 42       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 7053       | 0.629   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 88482      | 76.930  | ug/l # | 5        |
| 83) tert-Butylbenzene         | 11.750         | 119  | 3580       | 0.333   | ug/l # | 65       |
| 84) 1,2,4-Trimethylbenzene    | 11.750         | 105  | 26961      | 2.429   | ug/l   | 94       |
| 85) sec-Butylbenzene          | 11.750         | 105  | 26961      | 1.980   | ug/l # | 57       |
| 90) Hexachloroethane          | 12.646         | 117  | 431        | 0.249   | ug/l # | 17       |
| 95) Naphthalene               | 13.774         | 128  | 11829      | 0.986   | ug/l   | 98       |
| -----                         |                |      |            |         |        |          |

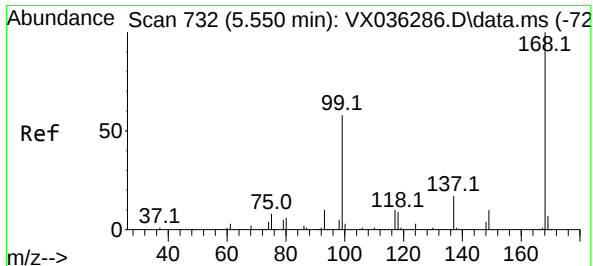
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062623\  
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ClientSampleId :

Quant Time: Jun 27 04:24:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 15:03:28 2023  
Response via : Initial Calibration

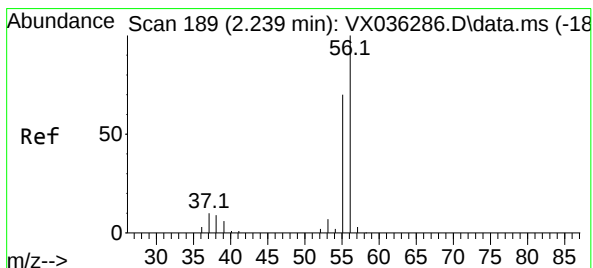
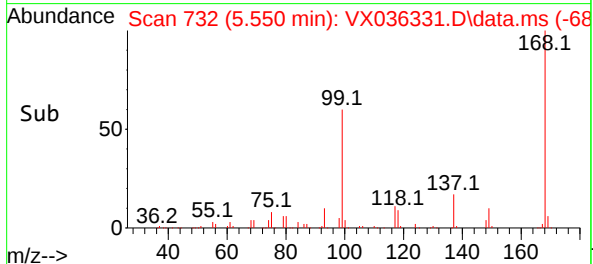
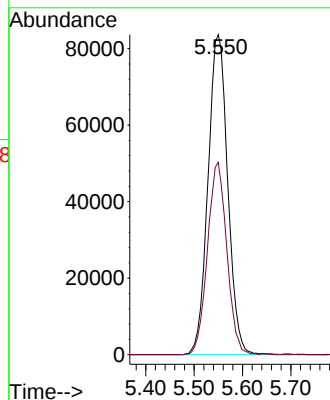
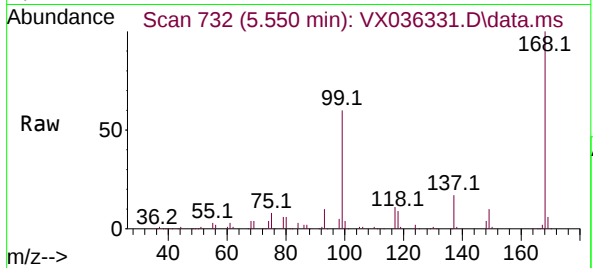




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.001 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

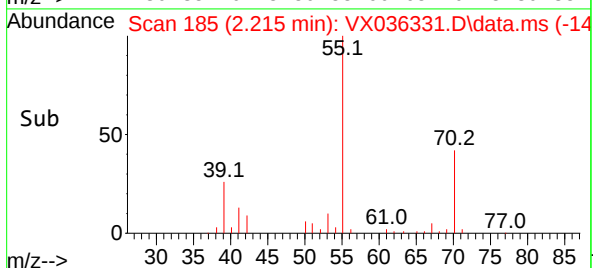
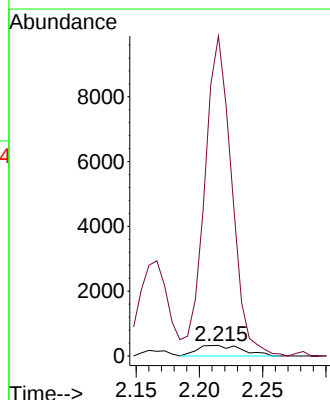
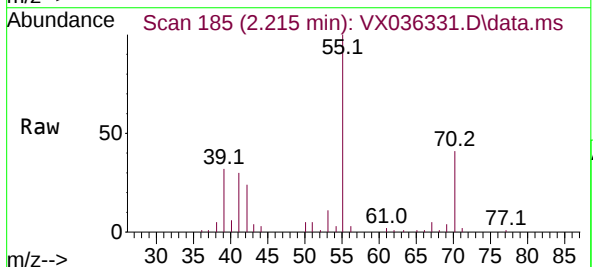
Instrument :  
MSVOA\_X  
ClientSampleId :

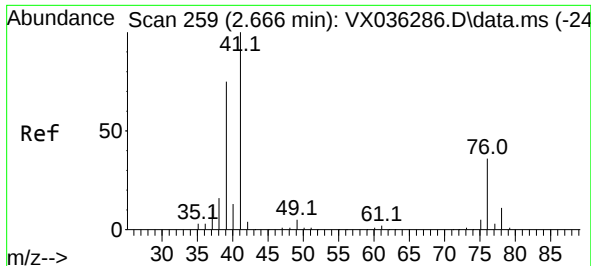
Tgt Ion:168 Resp: 236965  
Ion Ratio Lower Upper  
168 100  
99 60.1 56.6 85.0



#13  
Acrolein  
Concen: 0.962 ug/l  
RT: 2.215 min Scan# 185  
Delta R.T. -0.024 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

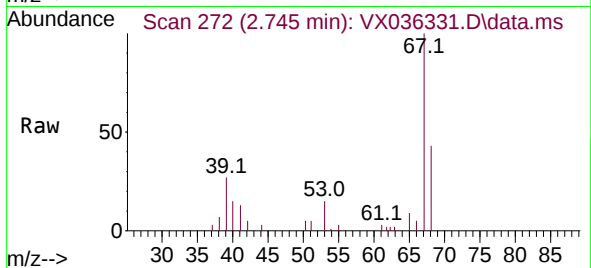
Tgt Ion: 56 Resp: 817  
Ion Ratio Lower Upper  
56 100  
55 1801.0 57.1 85.7#



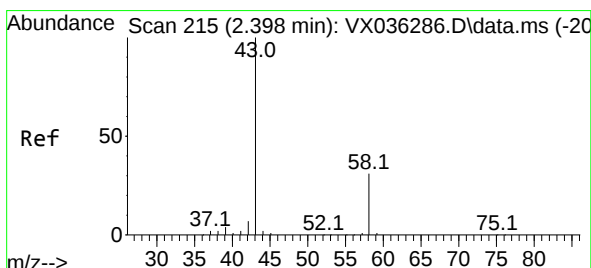
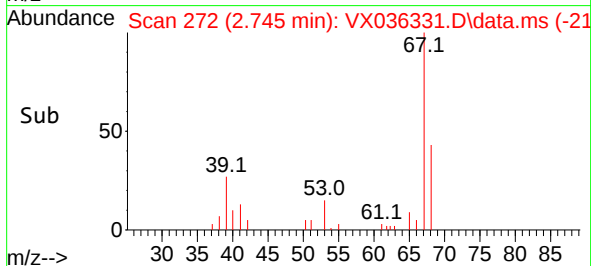
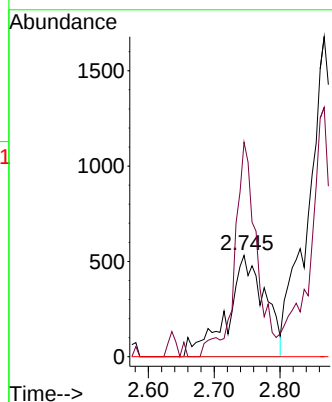


#14  
 Allyl chloride  
 Concen: 0.481 ug/l  
 RT: 2.745 min Scan# 21  
 Delta R.T. 0.079 min  
 Lab File: VX036331.D  
 Acq: 26 Jun 2023 16:06

Instrument :  
 MSVOA\_X  
 ClientSampleId :

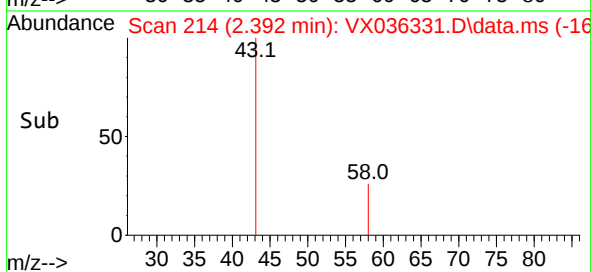
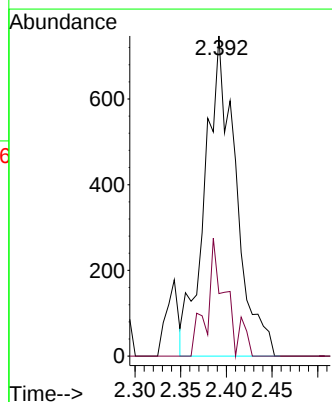
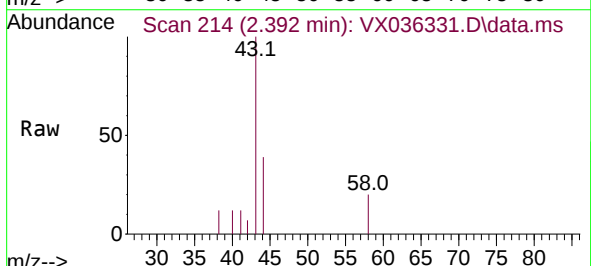


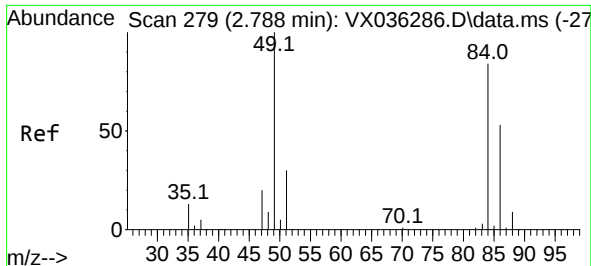
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 123.7 | 55.8  | 83.6# |
| 76      | 0.0   | 24.3  | 36.5# |



#16  
 Acetone  
 Concen: 1.209 ug/l  
 RT: 2.392 min Scan# 214  
 Delta R.T. -0.012 min  
 Lab File: VX036331.D  
 Acq: 26 Jun 2023 16:06

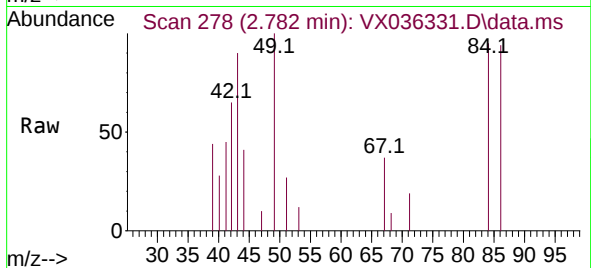
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 19.5  | 21.9  | 32.9# |



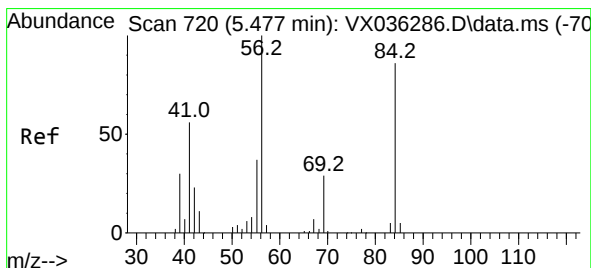
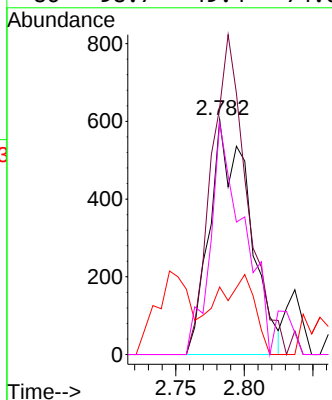
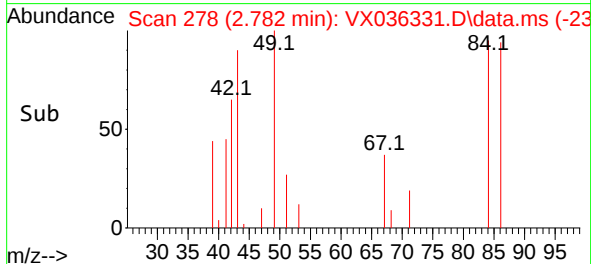


#20  
Methylene Chloride  
Concen: 0.390 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Instrument :  
MSVOA\_X  
ClientSampleId :

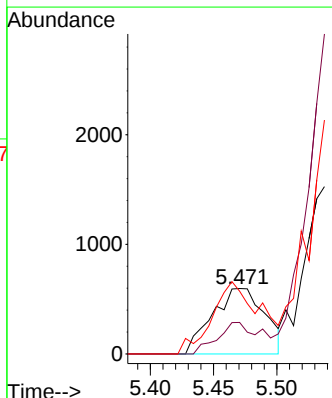
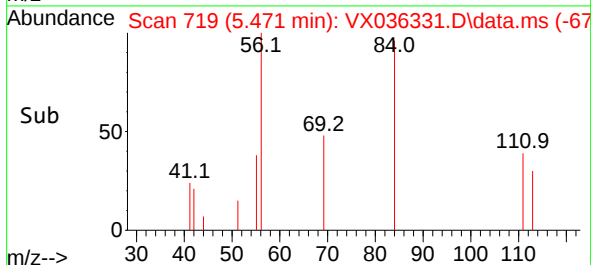
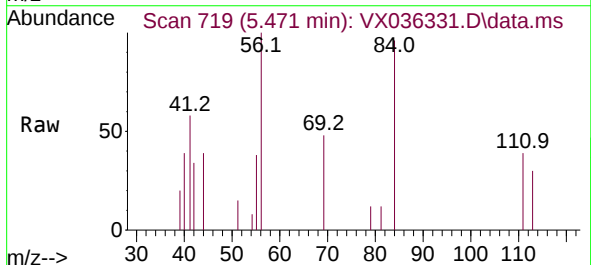


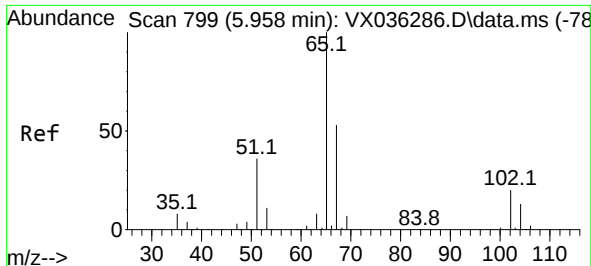
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 1218  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 104.8    | 103.6 155.4 |
| 51 28.8     | 33.8 50.6#  |
| 86 98.7     | 49.4 74.0#  |



#31  
Cyclohexane  
Concen: 0.396 ug/l  
RT: 5.471 min Scan# 719  
Delta R.T. 0.001 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 1722  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 48.1     | 23.4 35.2#  |
| 84 95.8     | 65.9 98.9   |

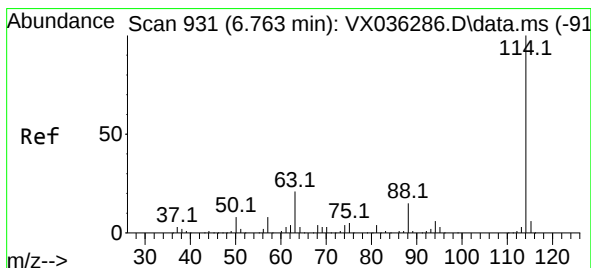
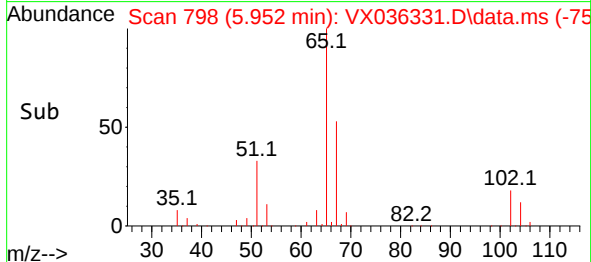
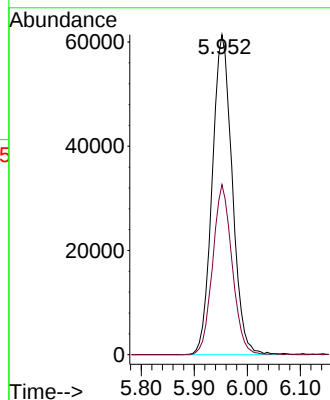
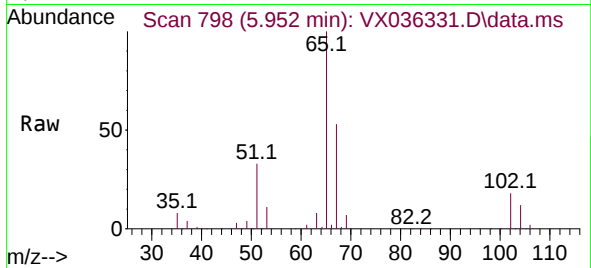




#33  
1,2-Dichloroethane-d4  
Concen: 47.330 ug/l  
RT: 5.952 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

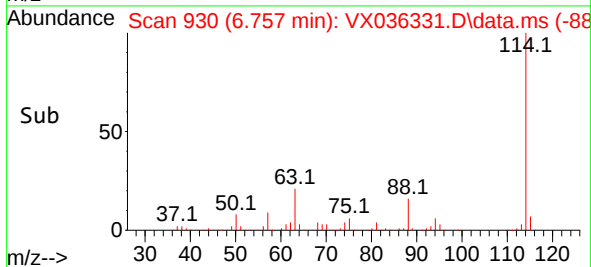
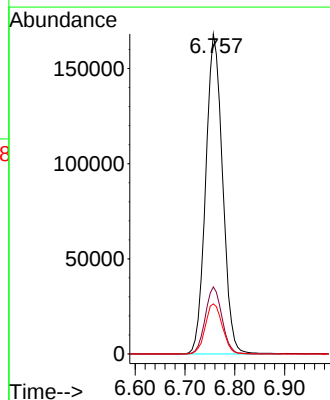
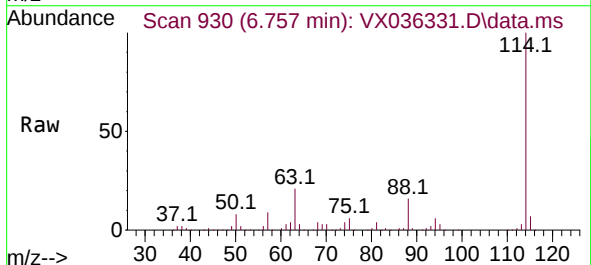
Instrument :  
MSVOA\_X  
ClientSampleId :

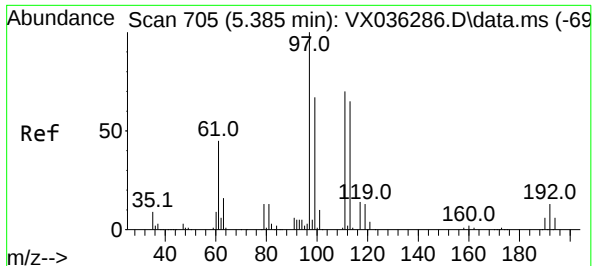
Tgt Ion: 65 Resp: 160767  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.006 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Tgt Ion:114 Resp: 395305  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 45.0  
88 15.6 0.0 36.6





#35

Dibromofluoromethane

Concen: 47.267 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

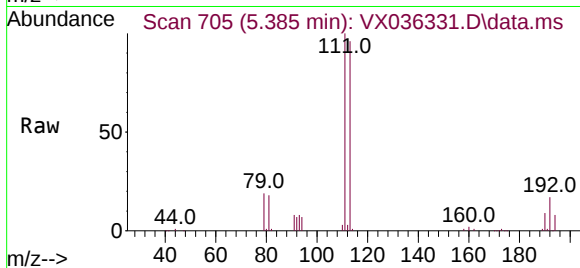
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Acq: 26 Jun 2023 16:06

Instrument :

MSVOA\_X

ClientSampleId :



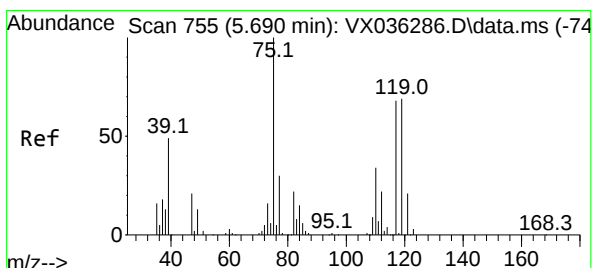
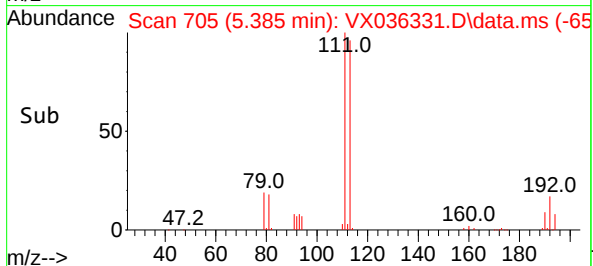
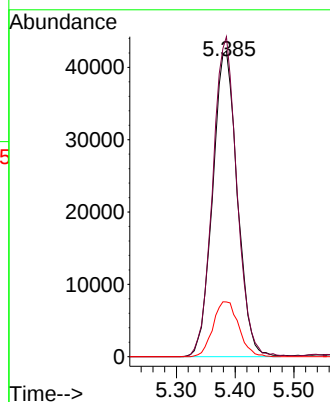
Tgt Ion:113 Resp: 123203

Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

192 18.7 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.906 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

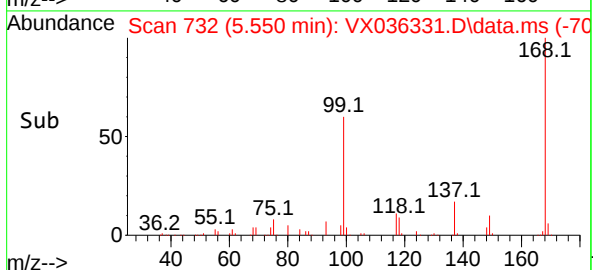
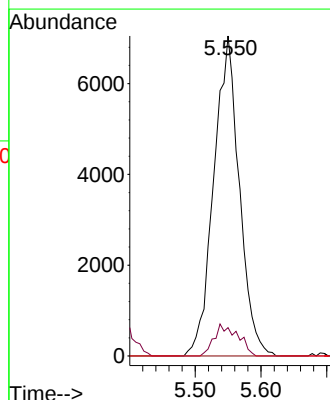
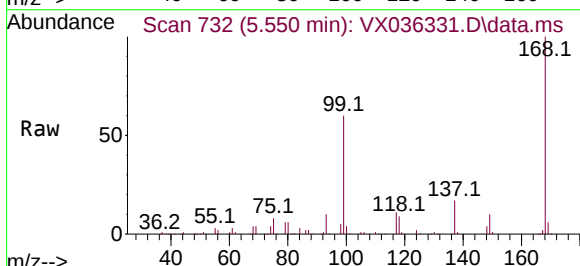
Tgt Ion: 75 Resp: 19063

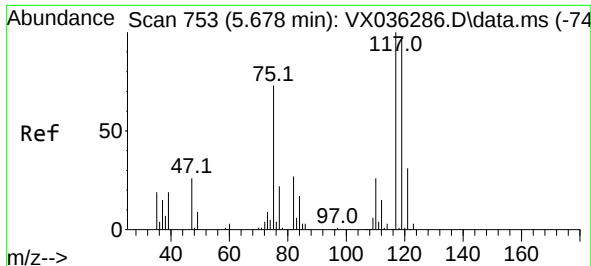
Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

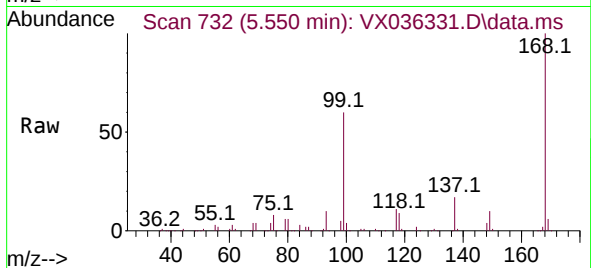
77 0.0 24.7 37.1#



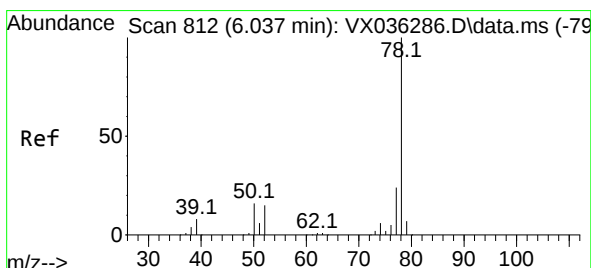
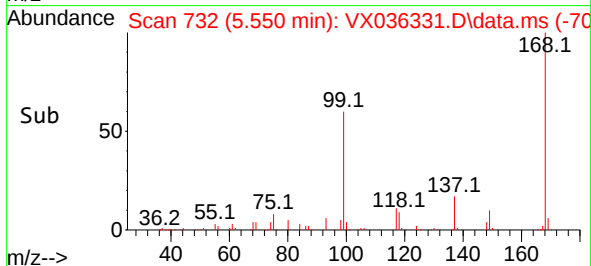
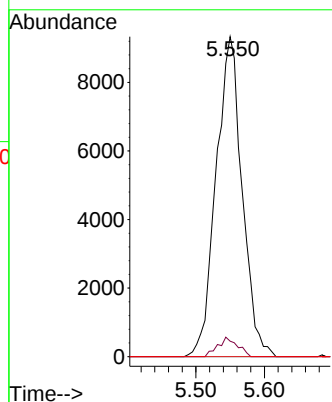


#38  
Carbon Tetrachloride  
Concen: 6.945 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Instrument :  
MSVOA\_X  
ClientSampleId :

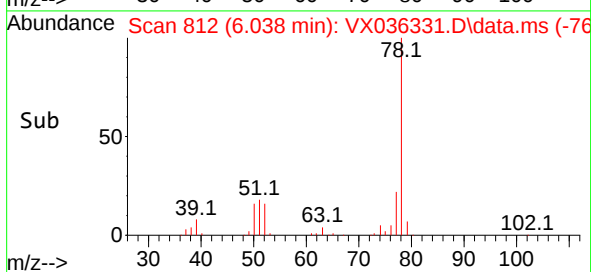
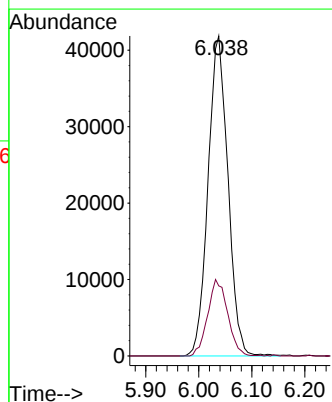
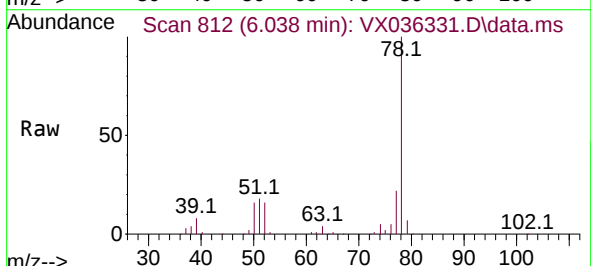


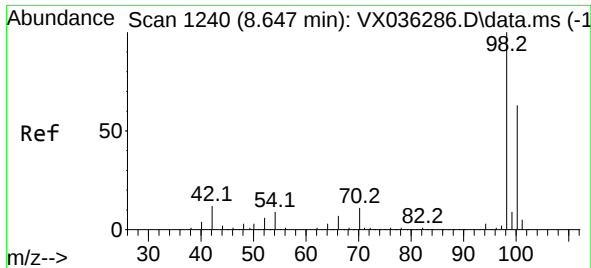
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Ion Ratio Lower Upper  
117 100  
119 4.9 78.2 117.2#  
121 0.0 24.4 36.6#



#40  
Benzene  
Concen: 10.042 ug/l  
RT: 6.038 min Scan# 812  
Delta R.T. 0.001 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Tgt Ion: 78 Resp: 108995  
Ion Ratio Lower Upper  
78 100  
77 21.9 19.3 28.9

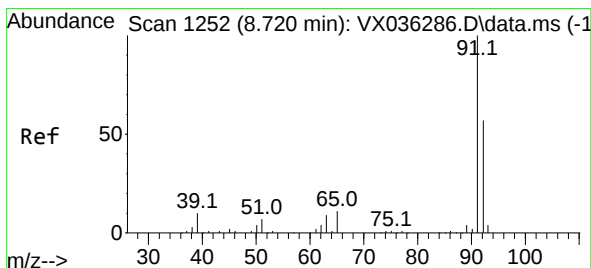
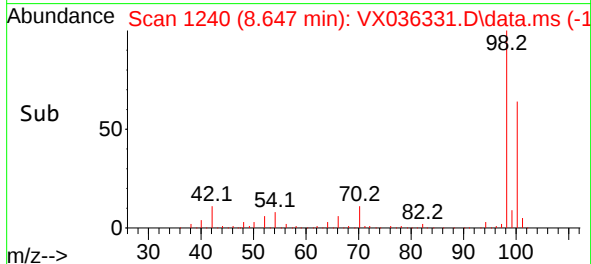
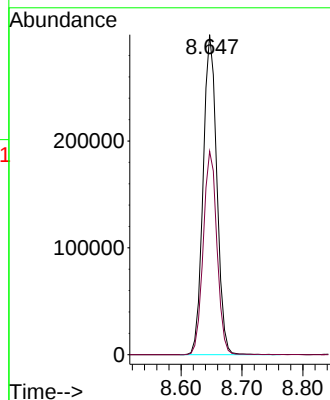
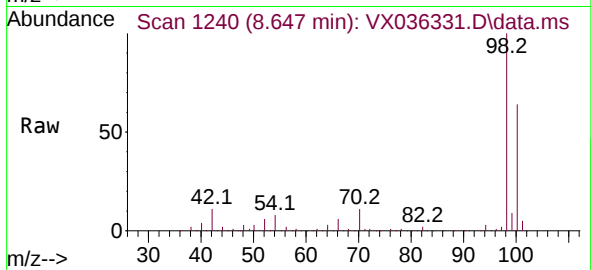




#50  
Toluene-d8  
Concen: 47.966 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

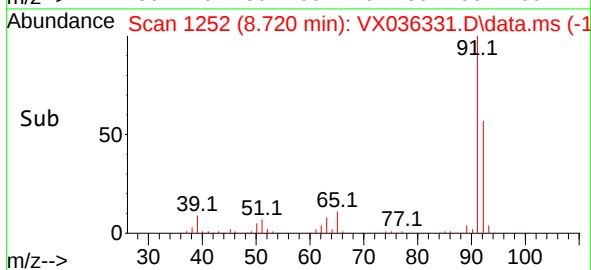
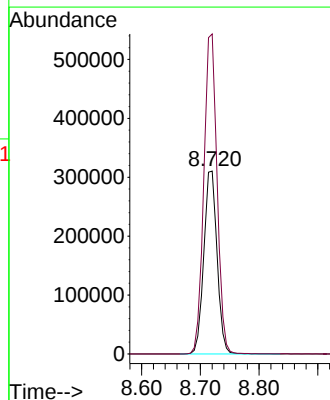
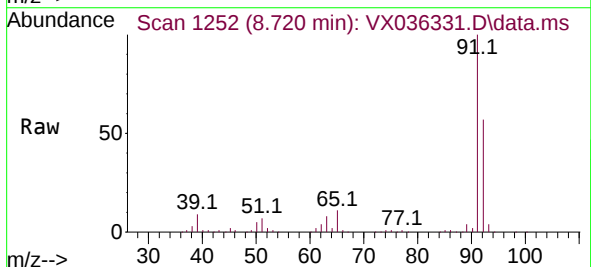
Instrument :  
MSVOA\_X  
ClientSampleId :

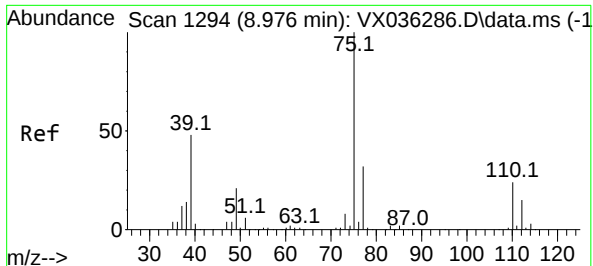
Tgt Ion: 98 Resp: 466971  
Ion Ratio Lower Upper  
98 100  
100 63.6 53.1 79.7



#52  
Toluene  
Concen: 70.891 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Tgt Ion: 92 Resp: 487618  
Ion Ratio Lower Upper  
92 100  
91 174.9 134.2 201.2





#53

t-1,3-Dichloropropene

Concen: 1.576 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.256 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Instrument :

MSVOA\_X

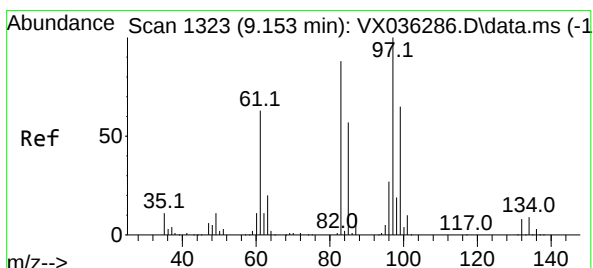
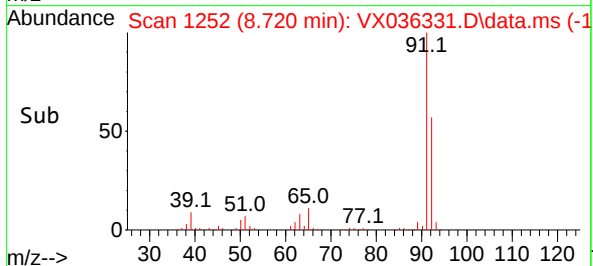
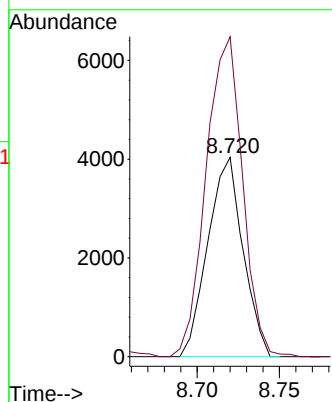
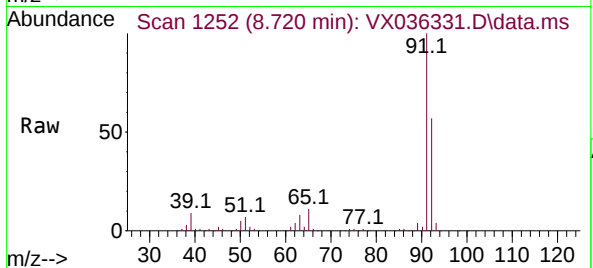
ClientSampleId :

Tgt Ion: 75 Resp: 5991

Ion Ratio Lower Upper

75 100

77 159.2 25.7 38.5#



#55

1,1,2-Trichloroethane

Concen: 0.461 ug/l

RT: 9.019 min Scan# 1301

Delta R.T. -0.133 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Tgt Ion: 97 Resp: 1319

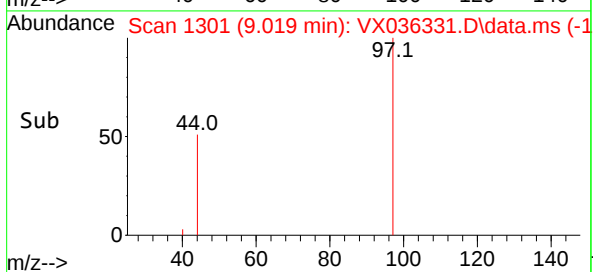
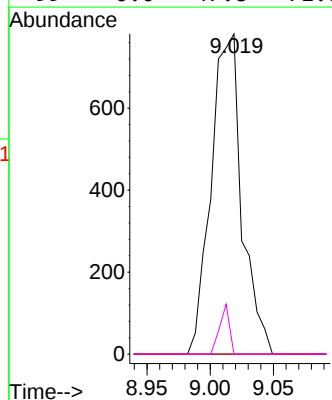
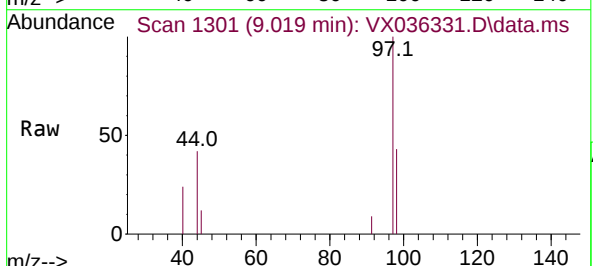
Ion Ratio Lower Upper

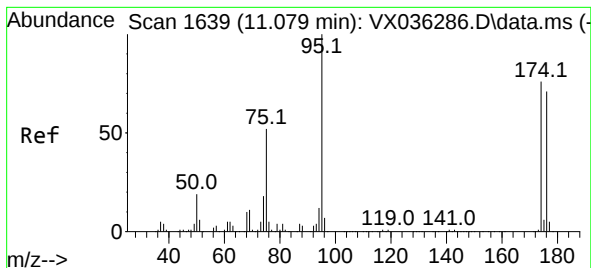
97 100

83 0.0 65.8 98.8#

85 0.0 41.6 62.4#

99 0.0 47.8 71.8#

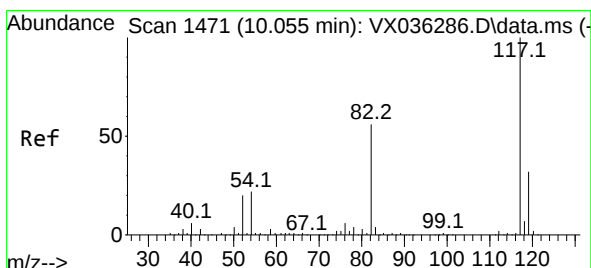
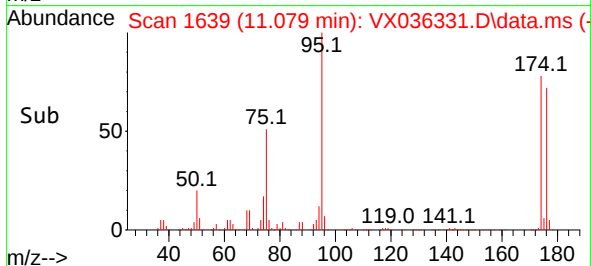
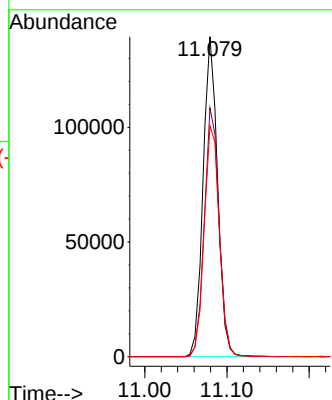
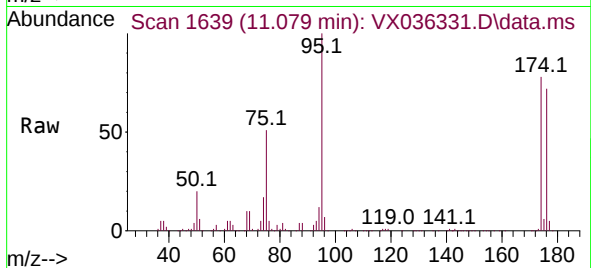




#62  
4-Bromofluorobenzene  
Concen: 49.931 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

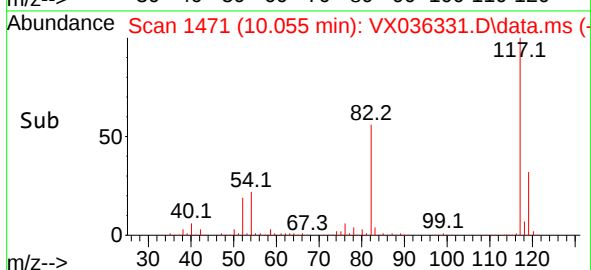
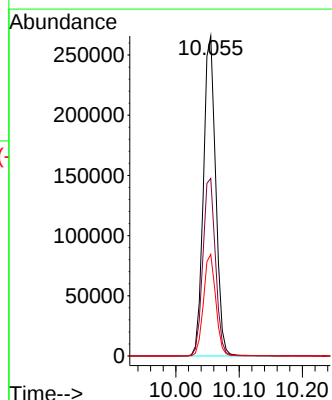
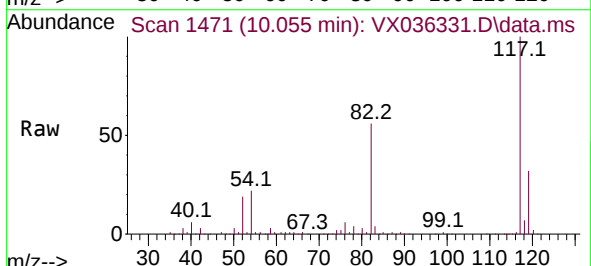
Instrument :  
MSVOA\_X  
ClientSampleId :

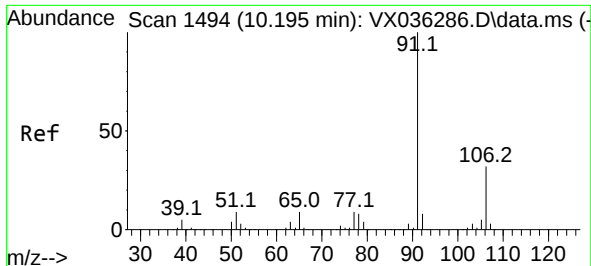
Tgt Ion: 95 Resp: 171220  
Ion Ratio Lower Upper  
95 100  
174 79.3 0.0 135.6  
176 75.4 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Tgt Ion: 117 Resp: 359849  
Ion Ratio Lower Upper  
117 100  
82 55.5 46.2 69.4  
119 31.7 25.5 38.3

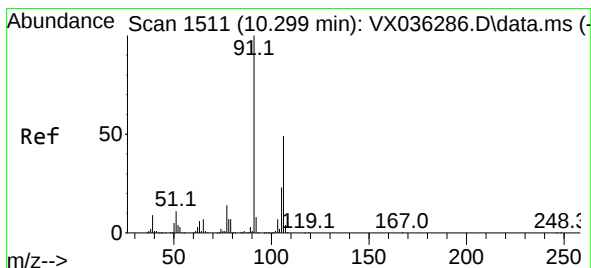
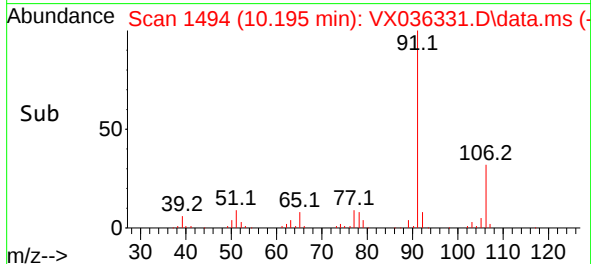
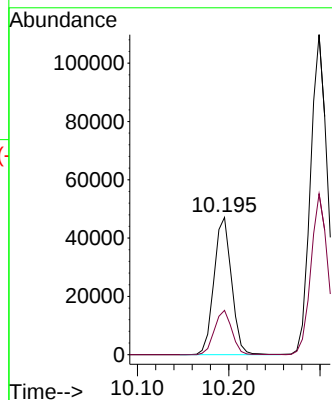
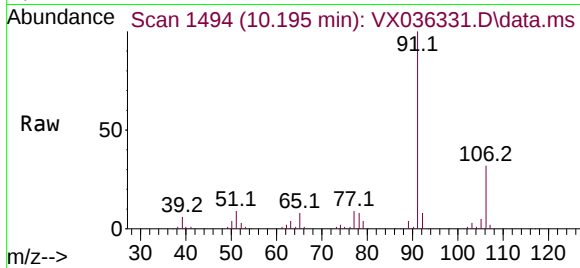




#67  
Ethyl Benzene  
Concen: 4.669 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

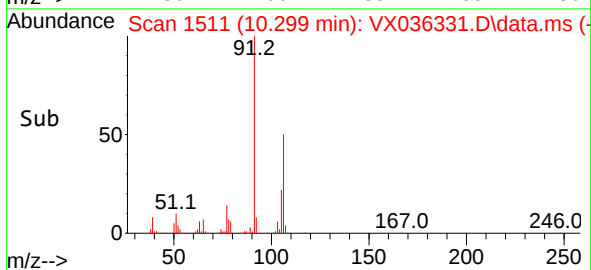
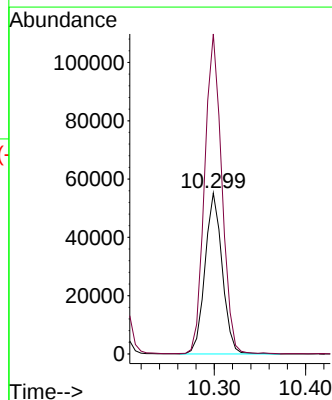
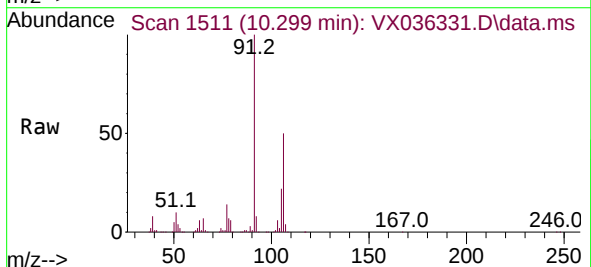
Instrument :  
MSVOA\_X  
ClientSampleId :

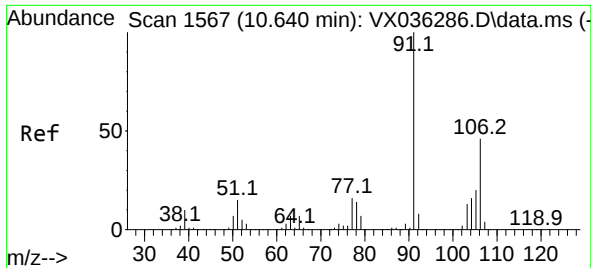
Tgt Ion: 91 Resp: 62787  
Ion Ratio Lower Upper  
91 100  
106 32.3 24.9 37.3



#68  
m/p-Xylenes  
Concen: 13.757 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Tgt Ion: 106 Resp: 71878  
Ion Ratio Lower Upper  
106 100  
91 198.8 165.5 248.3

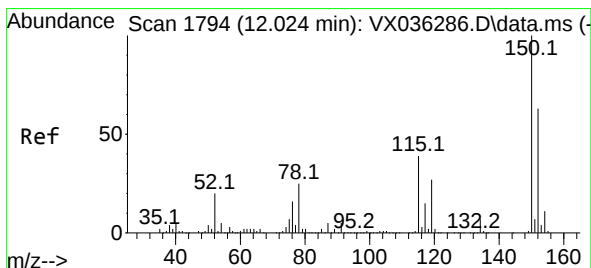
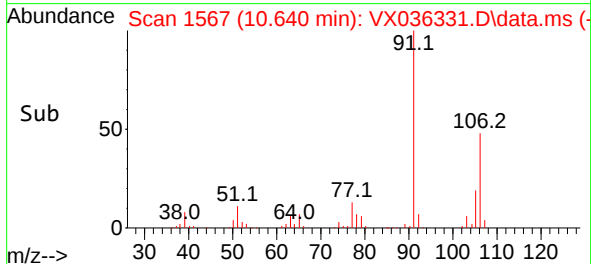
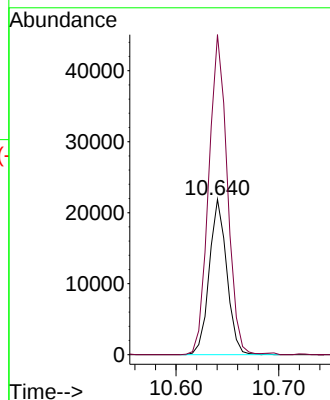
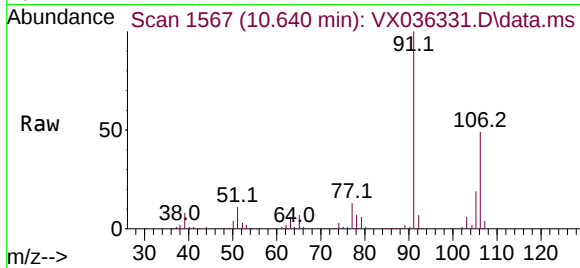




#69  
o-Xylene  
Concen: 5.142 ug/l  
RT: 10.640 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

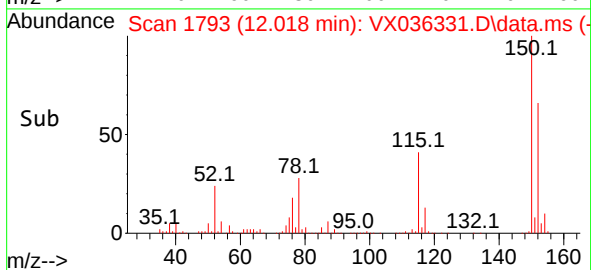
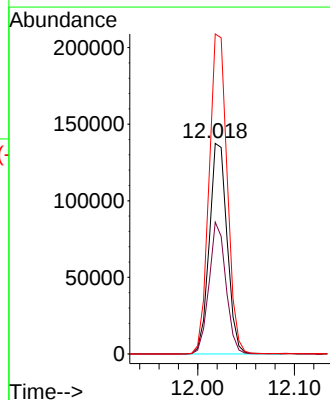
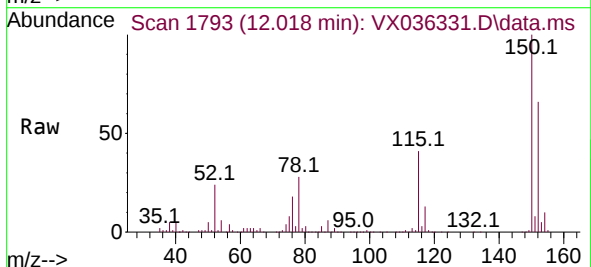
Instrument :  
MSVOA\_X  
ClientSampleId :

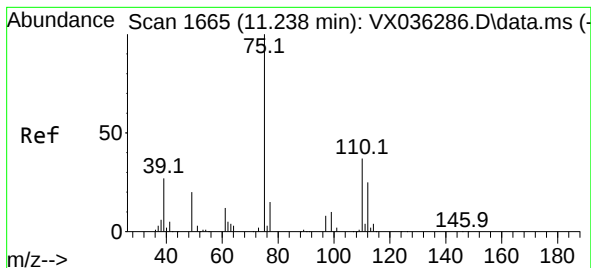
Tgt Ion:106 Resp: 25946  
Ion Ratio Lower Upper  
106 100  
91 218.4 108.9 326.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.006 min  
Lab File: VX036331.D  
Acq: 26 Jun 2023 16:06

Tgt Ion:152 Resp: 175771  
Ion Ratio Lower Upper  
152 100  
115 59.4 43.3 129.9  
150 154.6 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 23.600 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Instrument :

MSVOA\_X

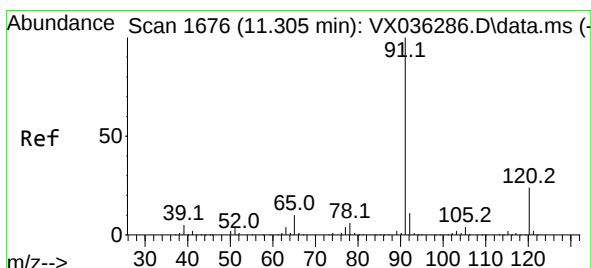
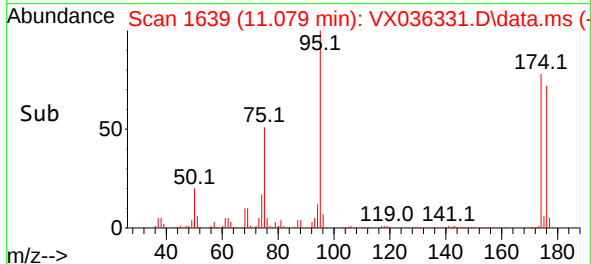
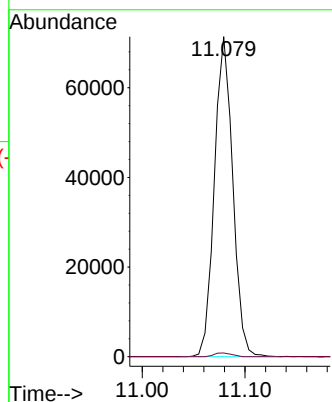
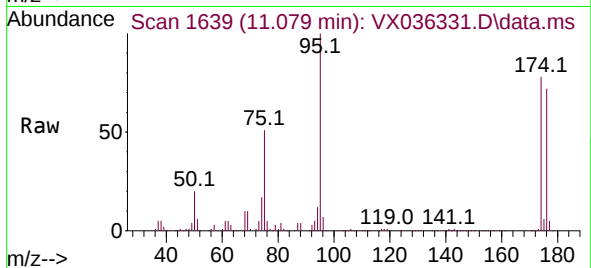
ClientSampleId :

Tgt Ion: 75 Resp: 88482

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#78

n-propylbenzene

Concen: 0.312 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX036331.D

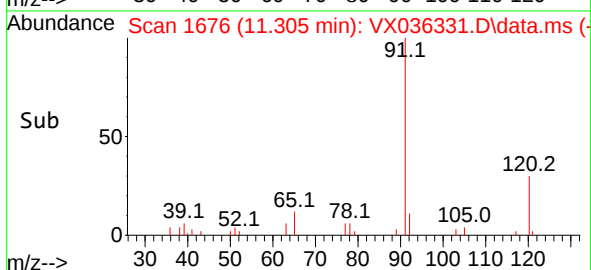
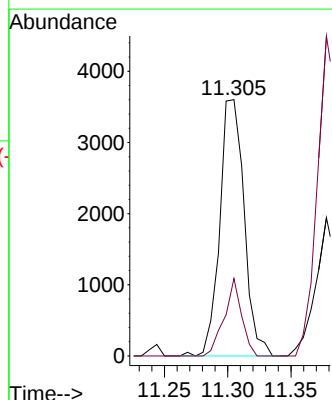
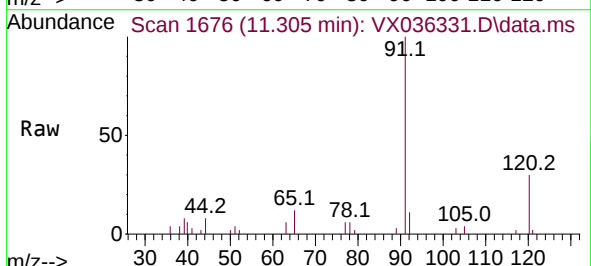
Acq: 26 Jun 2023 16:06

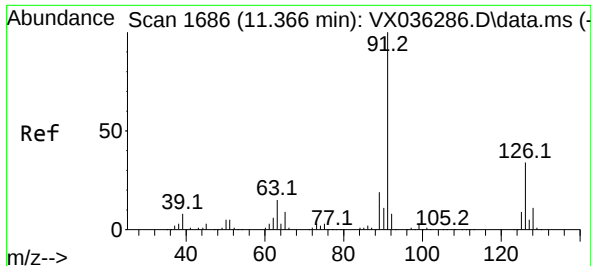
Tgt Ion: 91 Resp: 4828

Ion Ratio Lower Upper

91 100

120 21.5 11.5 34.4





#79

2-Chlorotoluene

Concen: 0.335 ug/l

RT: 11.378 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Instrument :

MSVOA\_X

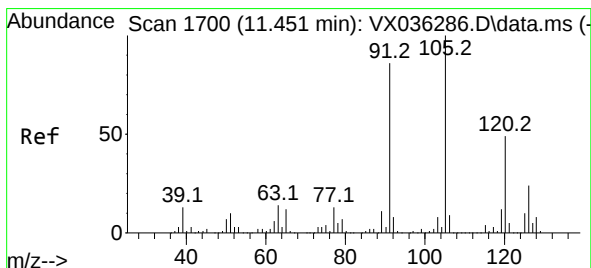
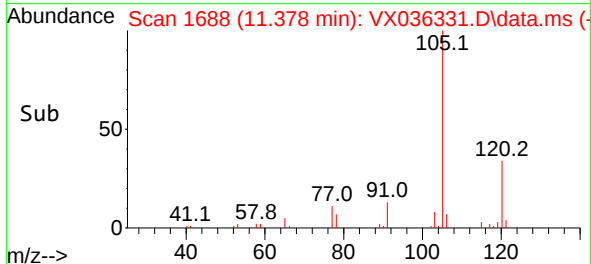
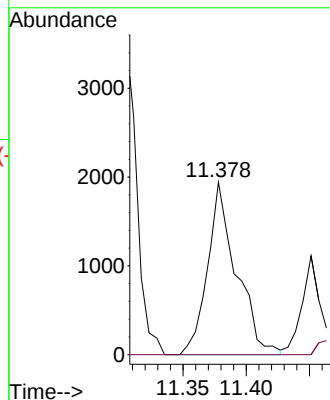
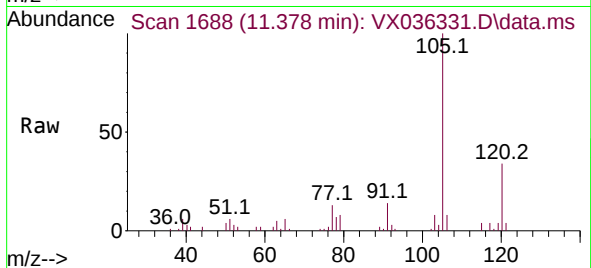
ClientSampleId :

Tgt Ion: 91 Resp: 3079

Ion Ratio Lower Upper

91 100

126 0.0 16.3 48.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.629 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX036331.D

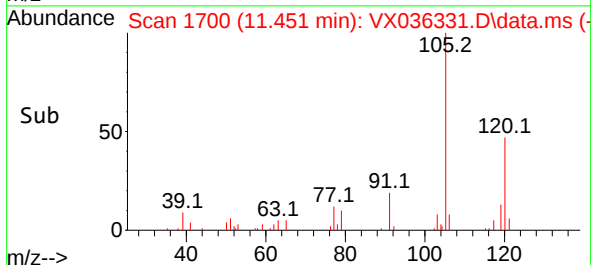
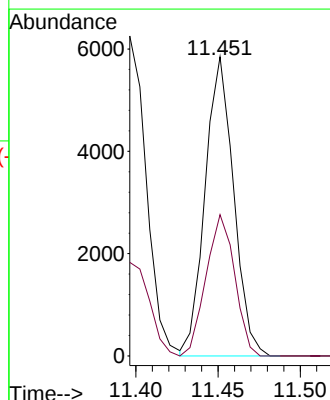
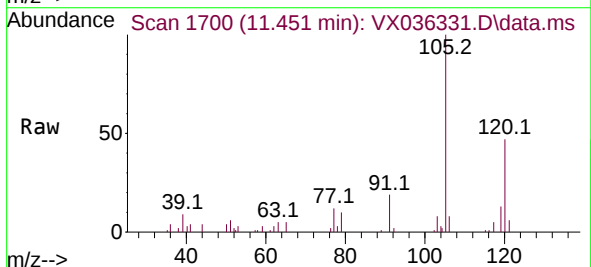
Acq: 26 Jun 2023 16:06

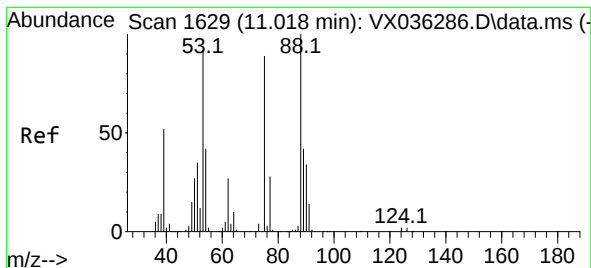
Tgt Ion: 105 Resp: 7053

Ion Ratio Lower Upper

105 100

120 47.4 24.1 72.3

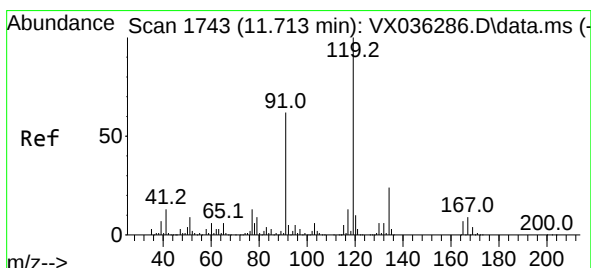
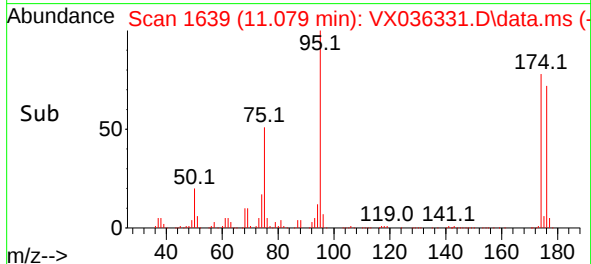
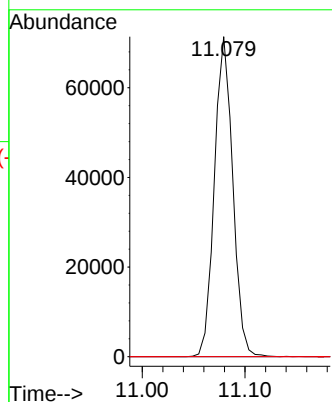
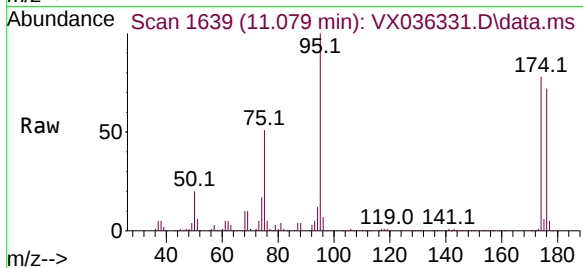




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.930 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. 0.061 min  
 Lab File: VX036331.D  
 Acq: 26 Jun 2023 16:06

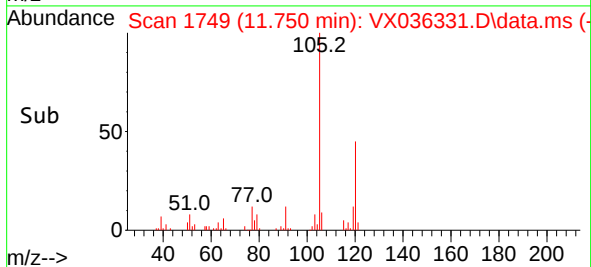
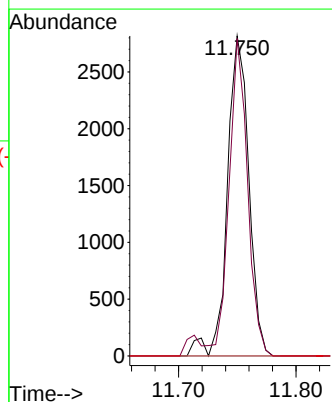
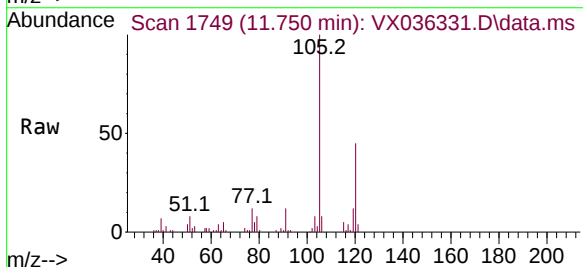
Instrument :  
 MSVOA\_X  
 ClientSampleId :

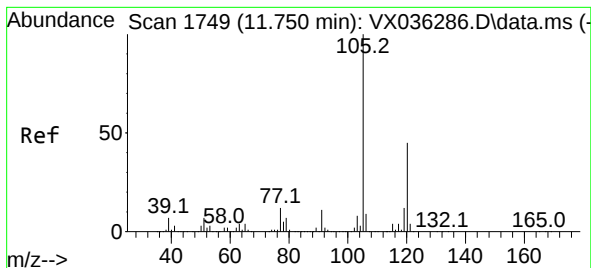
Tgt Ion: 75 Resp: 88482  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#



#83  
 tert-Butylbenzene  
 Concen: 0.333 ug/l  
 RT: 11.750 min Scan# 1749  
 Delta R.T. 0.037 min  
 Lab File: VX036331.D  
 Acq: 26 Jun 2023 16:06

Tgt Ion: 119 Resp: 3580  
 Ion Ratio Lower Upper  
 119 100  
 91 85.8 31.2 93.6  
 134 0.0 11.7 35.0#





#84

1,2,4-Trimethylbenzene

Concen: 2.429 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Instrument :

MSVOA\_X

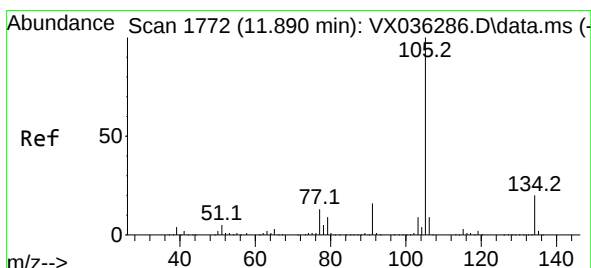
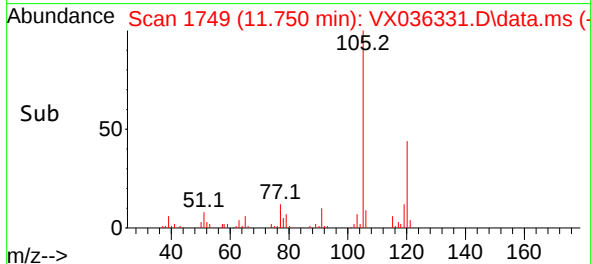
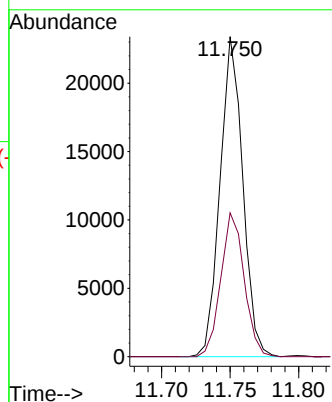
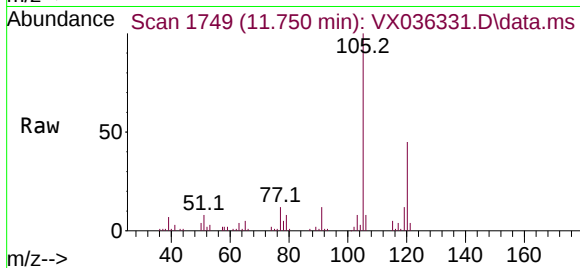
ClientSampleId :

Tgt Ion:105 Resp: 26961

Ion Ratio Lower Upper

105 100

120 46.2 21.2 63.6



#85

sec-Butylbenzene

Concen: 1.980 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.140 min

Lab File: VX036331.D

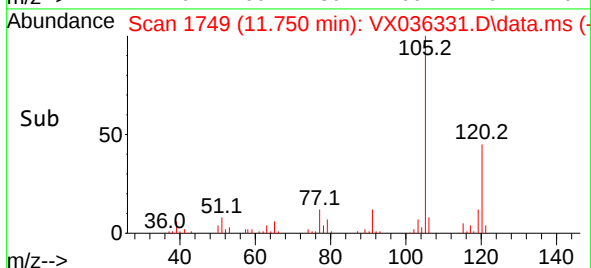
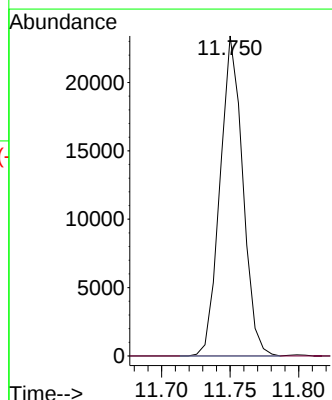
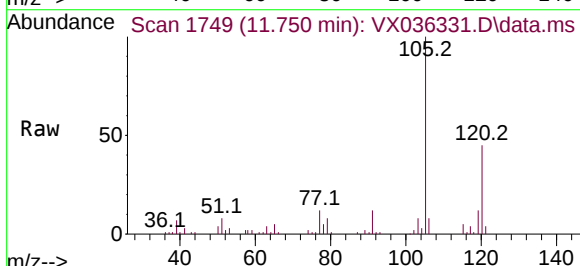
Acq: 26 Jun 2023 16:06

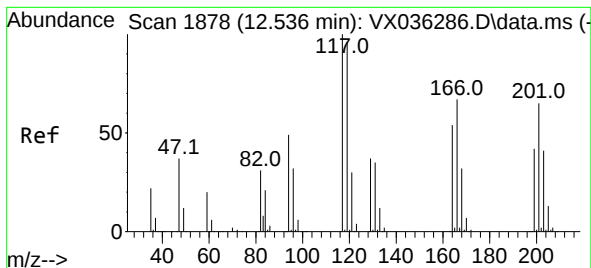
Tgt Ion:105 Resp: 26961

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.4#





#90

Hexachloroethane

Concen: 0.249 ug/l

RT: 12.646 min Scan# 1878

Delta R.T. 0.110 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Instrument :

MSVOA\_X

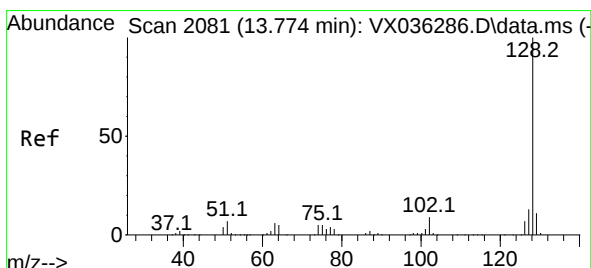
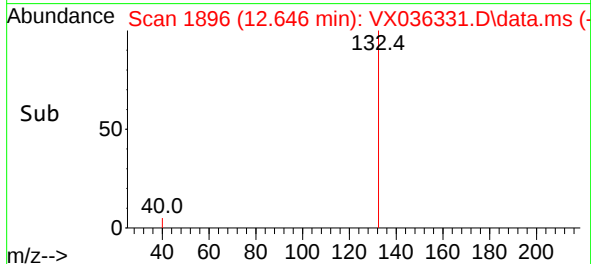
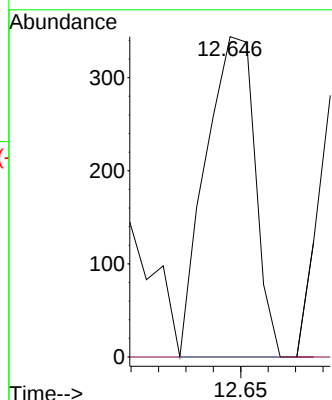
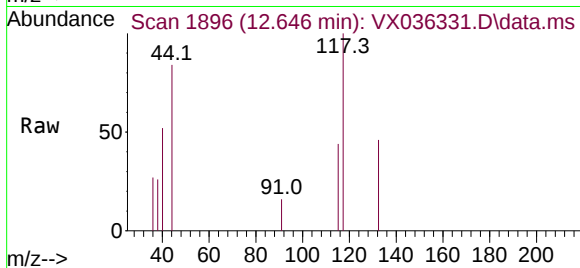
ClientSampleId :

Tgt Ion:117 Resp: 431

Ion Ratio Lower Upper

117 100

201 0.0 32.9 98.6#



#95

Naphthalene

Concen: 0.986 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX036331.D

Acq: 26 Jun 2023 16:06

Tgt Ion:128 Resp: 11829

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

129 10.7 8.8 13.2

