

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX093023\  
 Data File : VX038013.D  
 Acq On : 30 Sep 2023 18:45  
 Operator : JC/MD  
 Sample : 04639-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 02 02:17:02 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

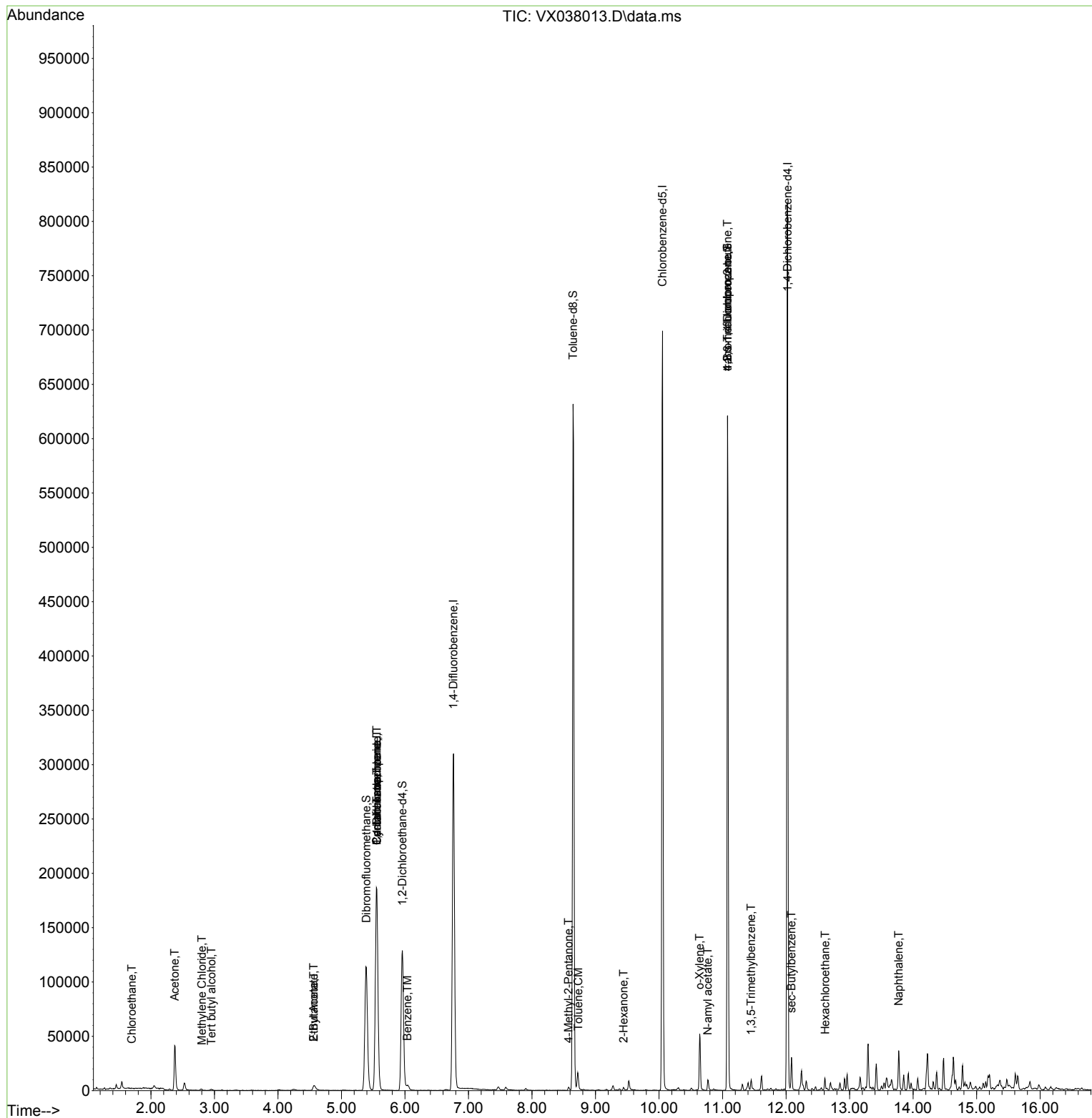
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 171615              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 304881              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 301630              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 163802              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 125097              | 55.481 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 110.960% |        |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 97265               | 47.680 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 95.360%  |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 372951              | 49.203 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 98.400%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 150053              | 54.479 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 108.960% |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 6) Chloroethane               | 1.697          | 64   | 420                 | 0.287  | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 889                 | 1.837  | ug/l # | 78       |
| 16) Acetone                   | 2.374          | 43   | 43893               | 40.466 | ug/l   | 95       |
| 20) Methylene Chloride        | 2.800          | 84   | 646                 | 0.297  | ug/l # | 64       |
| 25) 2-Butanone                | 4.562          | 43   | 8285                | 5.413  | ug/l # | 89       |
| 31) Cyclohexane               | 5.556          | 56   | 4378                | 1.513  | ug/l # | 38       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 14752               | 5.250  | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.562          | 43   | 8285                | 2.682  | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 17982               | 6.116  | ug/l # | 15       |
| 40) Benzene                   | 6.038          | 78   | 5200                | 0.602  | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.574          | 43   | 2011                | 0.642  | ug/l   | 90       |
| 52) Toluene                   | 8.726          | 92   | 5603                | 1.006  | ug/l   | 91       |
| 59) 2-Hexanone                | 9.439          | 43   | 1563                | 0.640  | ug/l   | 88       |
| 69) o-Xylene                  | 10.640         | 106  | 11201               | 2.563  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.768         | 43   | 5487                | 1.127  | ug/l # | 48       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 84182               | 22.220 | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 4188                | 0.413  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 84182               | 71.179 | ug/l # | 5        |
| 85) sec-Butylbenzene          | 12.085         | 105  | 12137               | 0.975  | ug/l # | 57       |
| 90) Hexachloroethane          | 12.616         | 117  | 560                 | 0.319  | ug/l # | 17       |
| 95) Naphthalene               | 13.774         | 128  | 23165               | 2.054  | ug/l   | 100      |
| -----                         |                |      |                     |        |        |          |

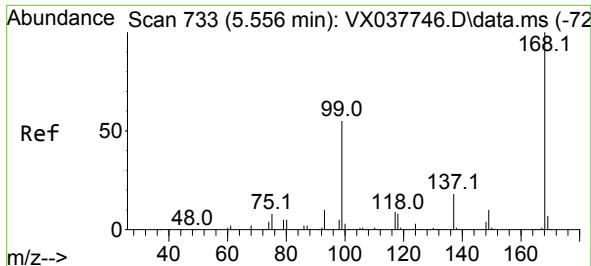
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

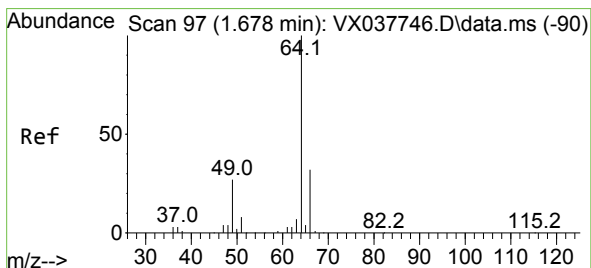
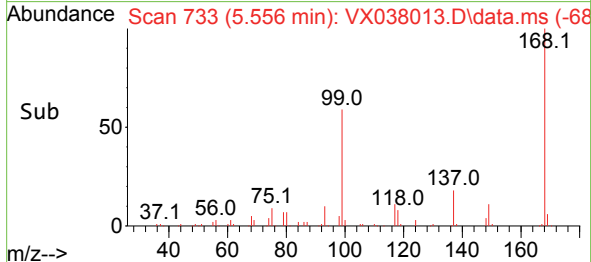
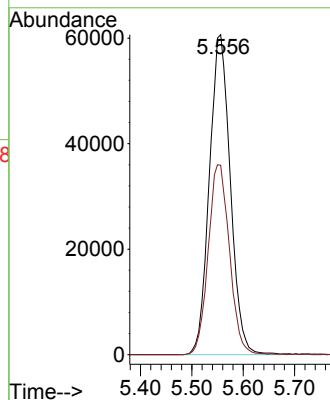
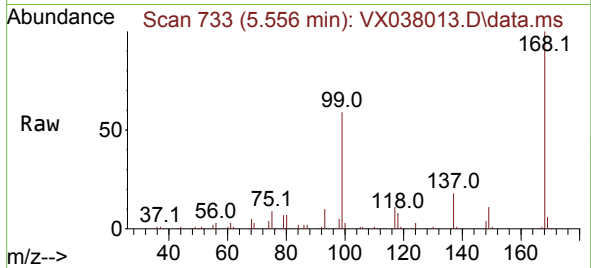
ClientSampleId :

Tgt Ion:168 Resp: 171615

Ion Ratio Lower Upper

168 100

99 59.2 56.6 85.0



#6

Chloroethane

Concen: 0.287 ug/l

RT: 1.697 min Scan# 100

Delta R.T. 0.012 min

Lab File: VX038013.D

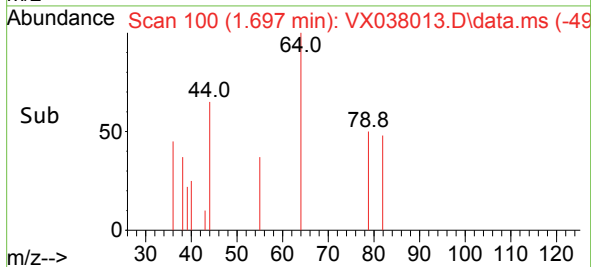
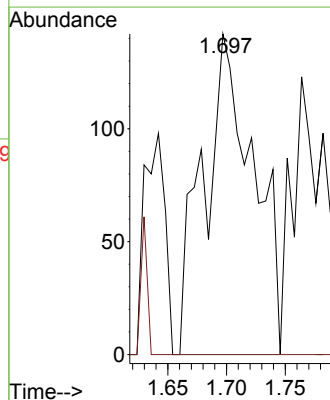
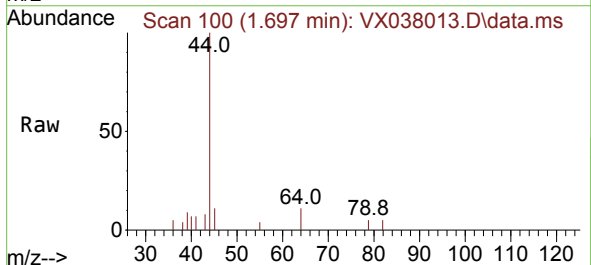
Acq: 30 Sep 2023 18:45

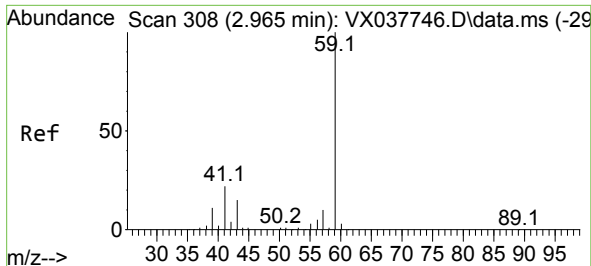
Tgt Ion: 64 Resp: 420

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 1.837 ug/l

RT: 2.953 min Scan# 30

Delta R.T. -0.012 min

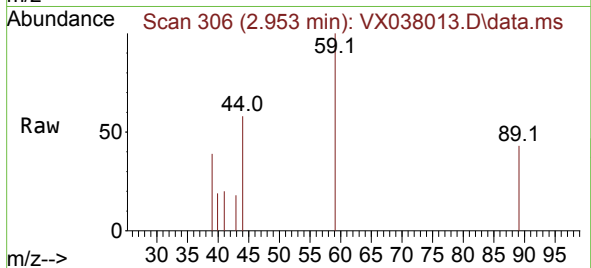
Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

ClientSampleId :

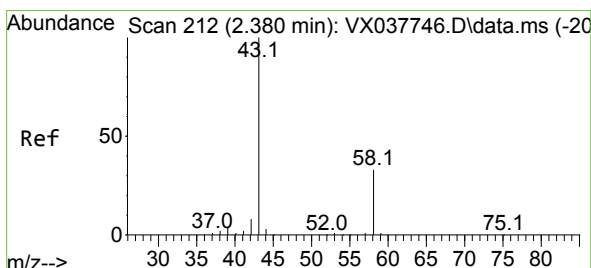
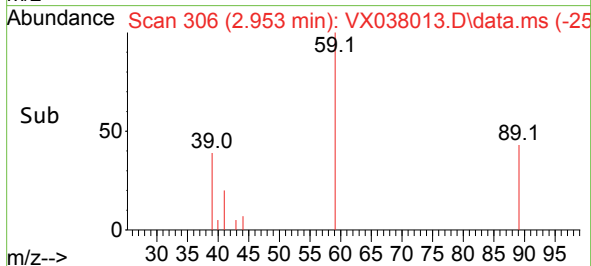
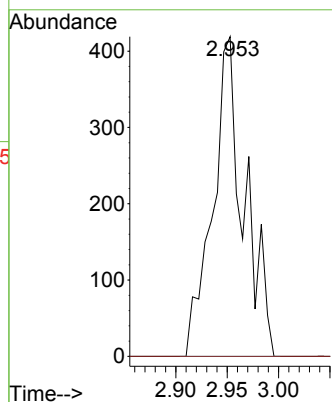


Tgt Ion: 59 Resp: 889

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 40.466 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX038013.D

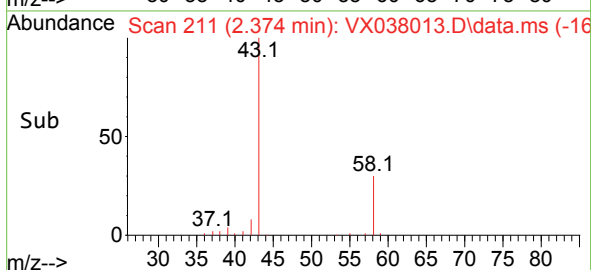
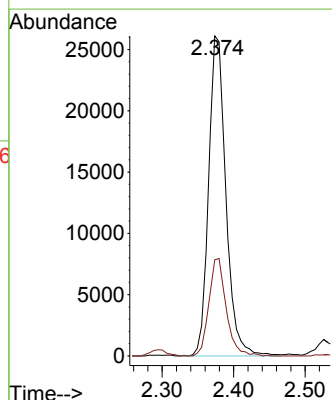
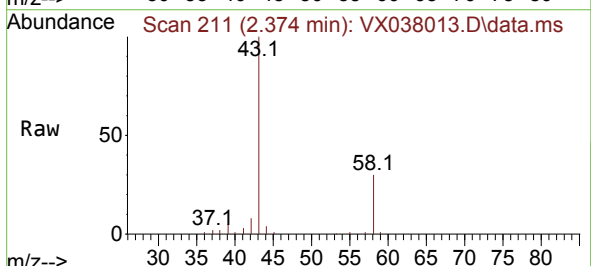
Acq: 30 Sep 2023 18:45

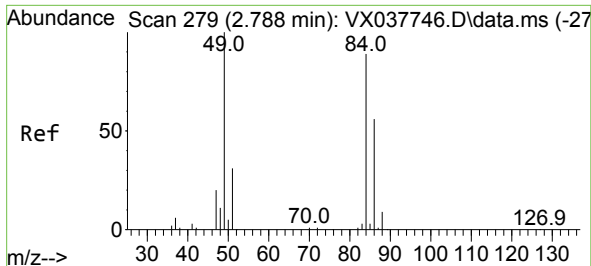
Tgt Ion: 43 Resp: 43893

Ion Ratio Lower Upper

43 100

58 30.0 21.9 32.9





#20

Methylene Chloride

Concen: 0.297 ug/l

RT: 2.800 min Scan# 21

Delta R.T. 0.012 min

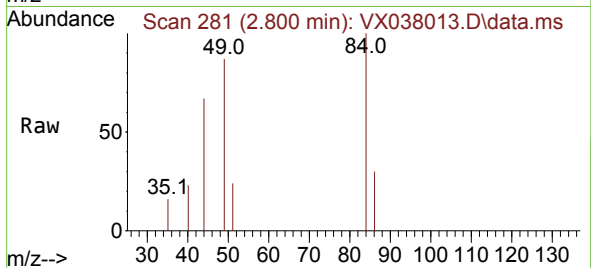
Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 646

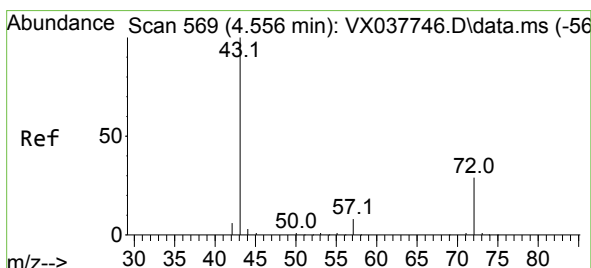
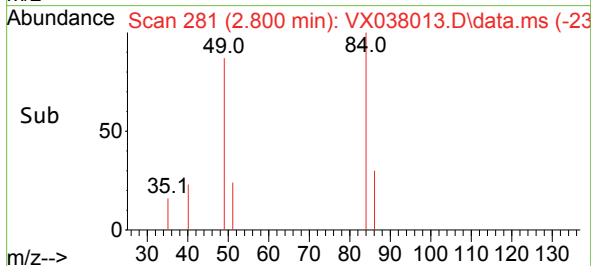
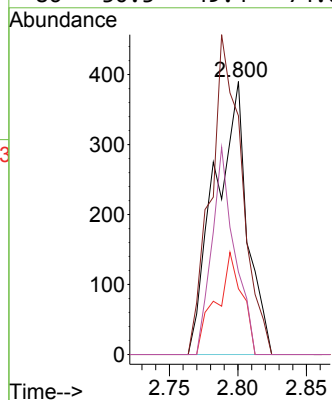
Ion Ratio Lower Upper

84 100

49 87.4 103.6 155.4#

51 24.1 33.8 50.6#

86 30.3 49.4 74.0#



#25

2-Butanone

Concen: 5.413 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.006 min

Lab File: VX038013.D

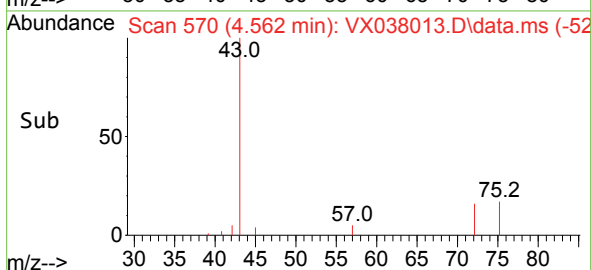
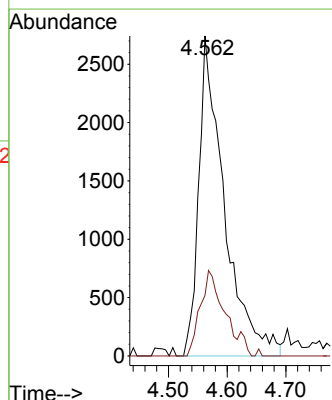
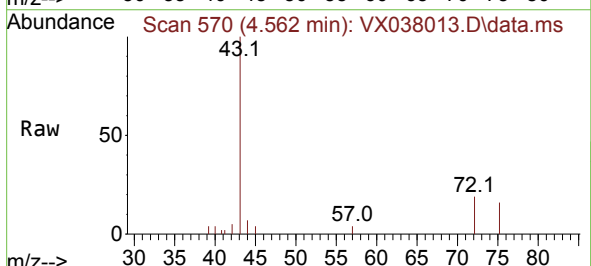
Acq: 30 Sep 2023 18:45

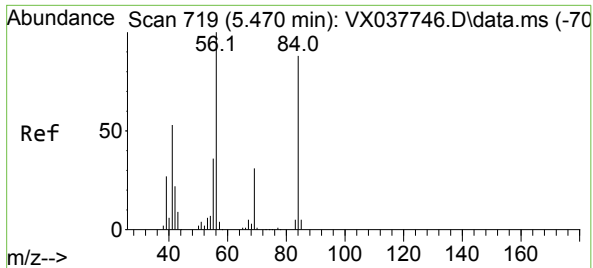
Tgt Ion: 43 Resp: 8285

Ion Ratio Lower Upper

43 100

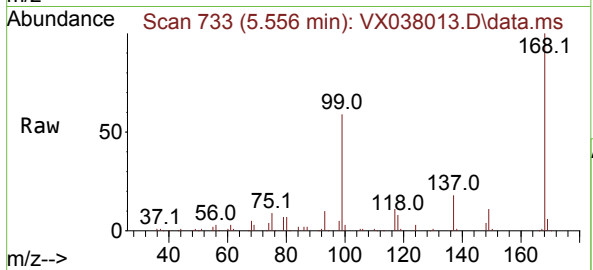
72 19.0 19.4 29.2#



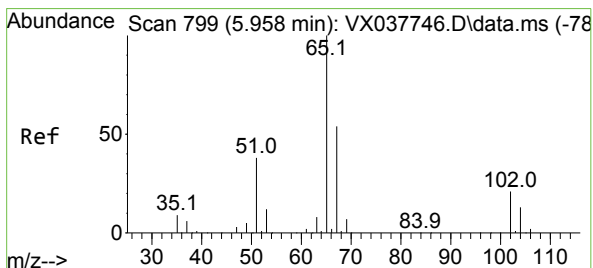
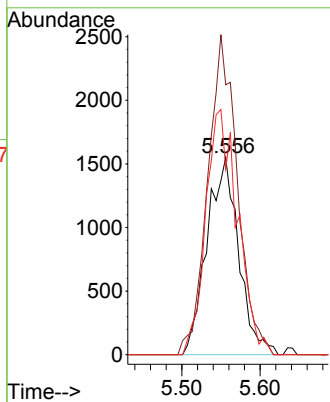
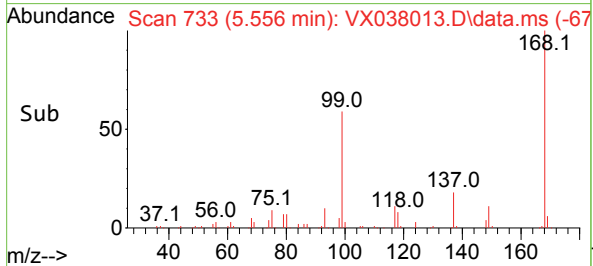


#31  
Cyclohexane  
Concen: 1.513 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

Instrument :  
MSVOA\_X  
ClientSampleId :

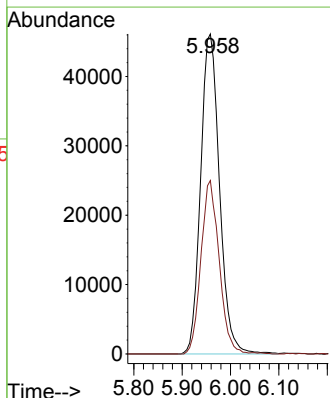
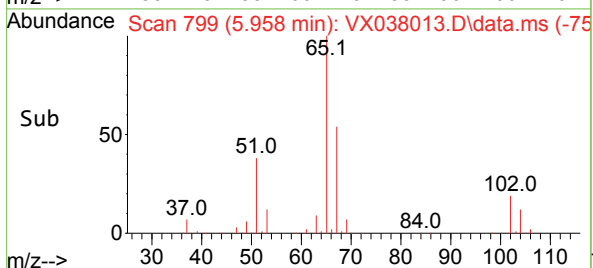
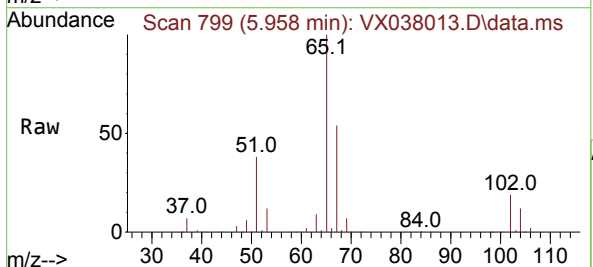


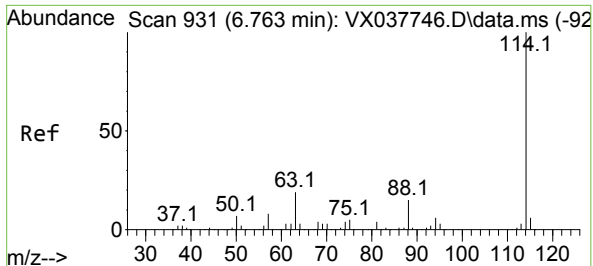
Tgt Ion: 56 Resp: 4378  
Ion Ratio Lower Upper  
56 100  
69 136.8 23.4 35.2#  
84 94.2 65.9 98.9



#33  
1,2-Dichloroethane-d4  
Concen: 55.481 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

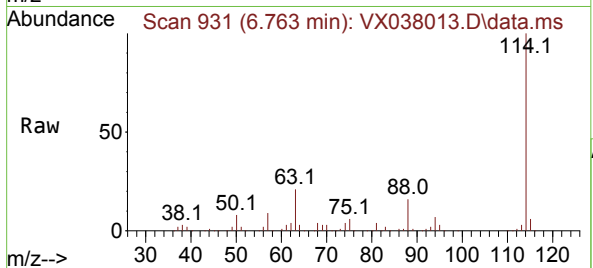
Tgt Ion: 65 Resp: 125097  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 100.2



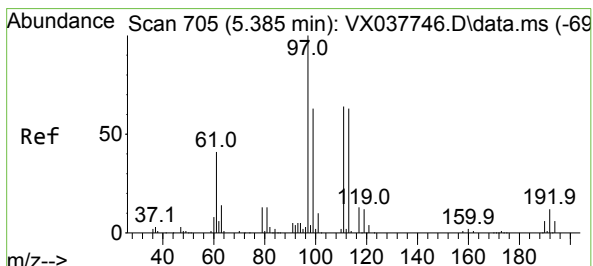
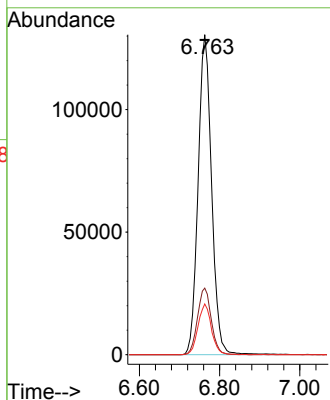
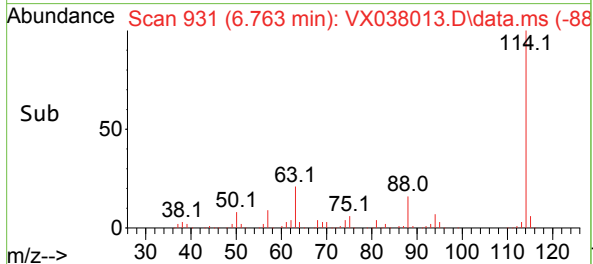


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

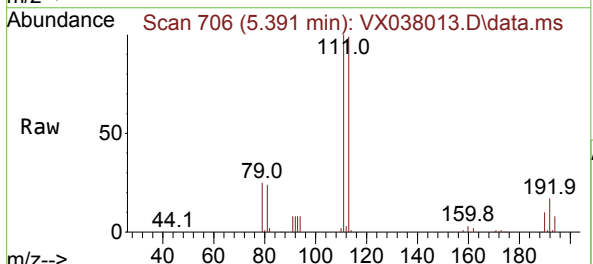
Instrument :  
MSVOA\_X  
ClientSampleId :



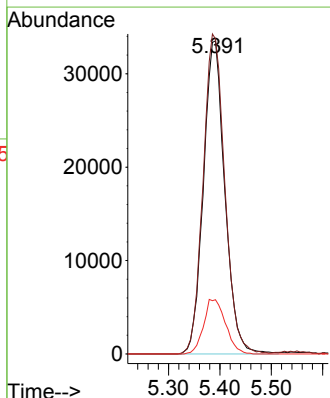
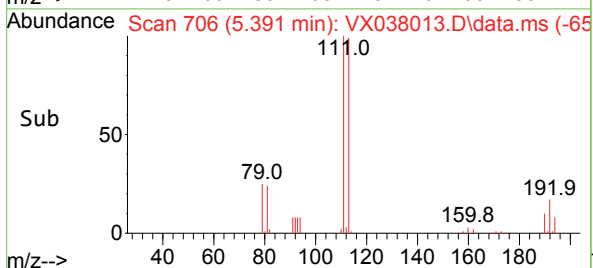
Tgt Ion:114 Resp: 304881  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 45.0  
88 15.8 0.0 36.6

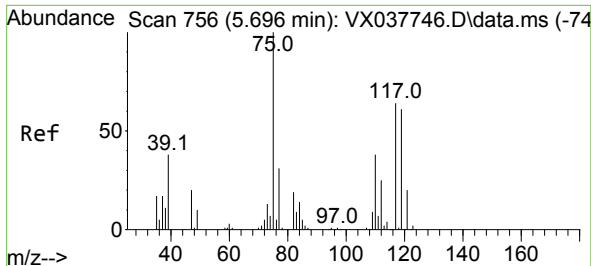


#35  
Dibromofluoromethane  
Concen: 47.680 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45



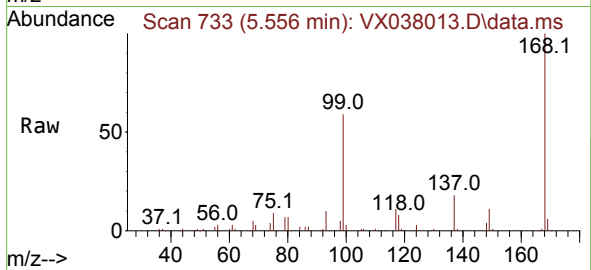
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Ion Ratio Lower Upper  
113 100  
111 103.4 82.9 124.3  
192 17.8 13.3 19.9



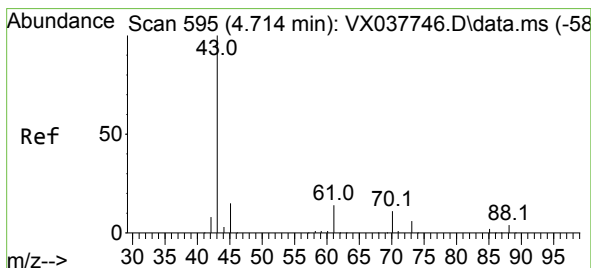
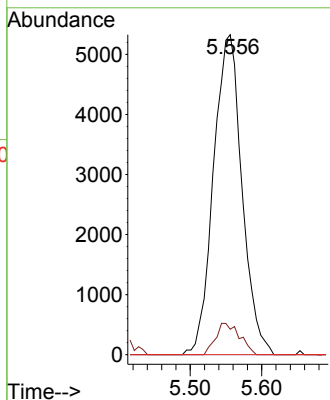
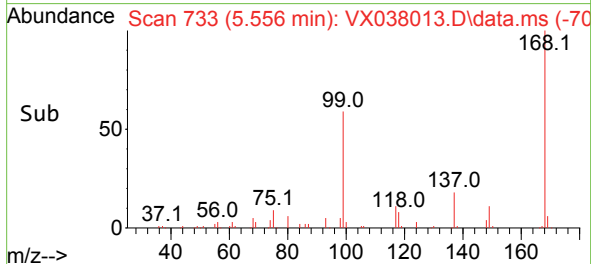


#36  
1,1-Dichloropropene  
Concen: 5.250 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

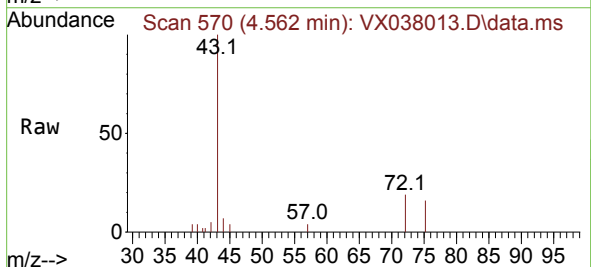
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ClientSampleId :



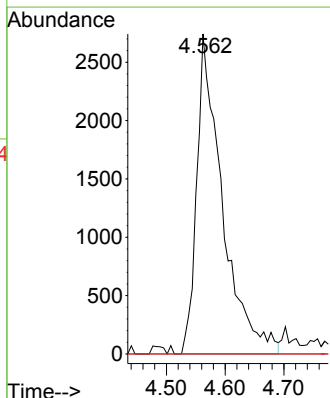
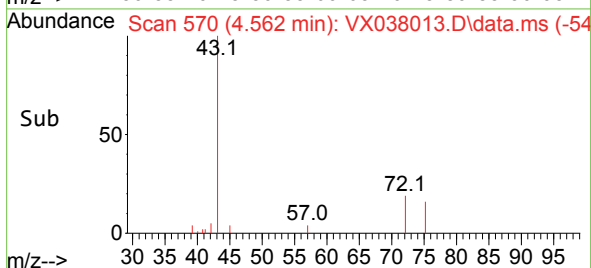
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Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.0 24.7 37.1#

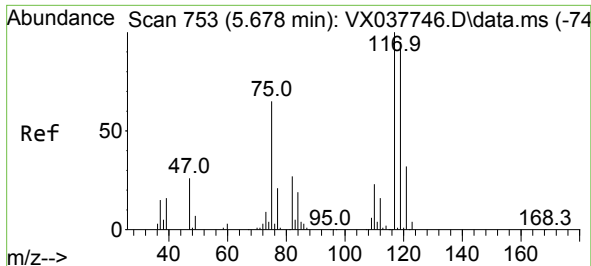


#37  
Ethyl Acetate  
Concen: 2.682 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. -0.171 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45



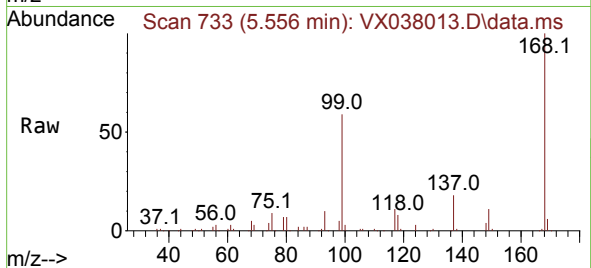
Tgt Ion: 43 Resp: 8285  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 16.0#  
70 0.0 8.3 12.5#



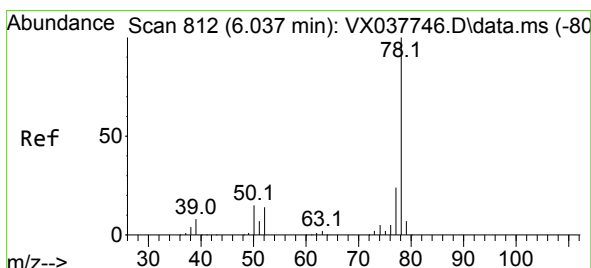
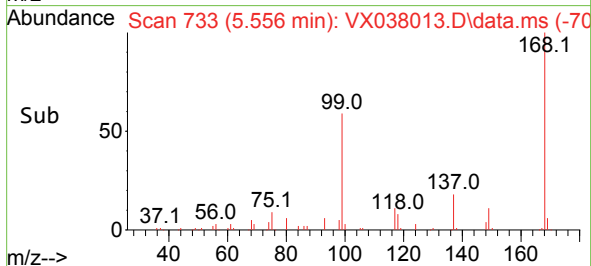
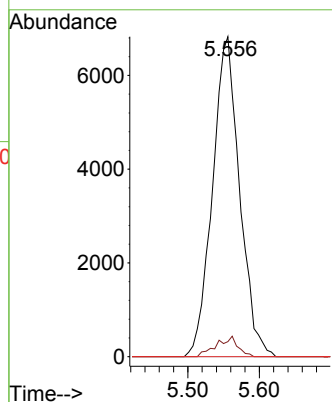


#38  
Carbon Tetrachloride  
Concen: 6.116 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

Instrument :  
MSVOA\_X  
ClientSampleId :

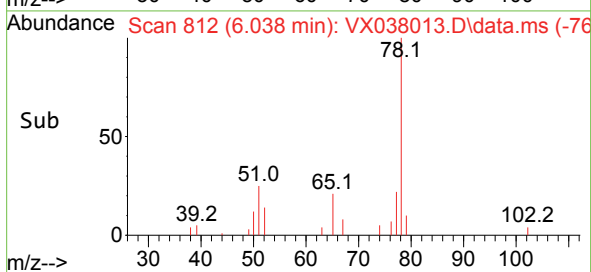
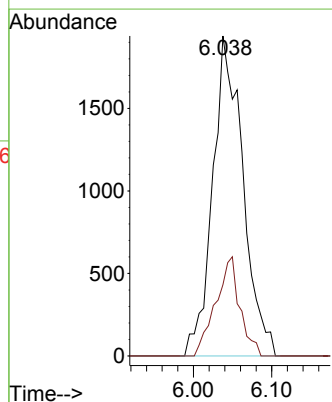
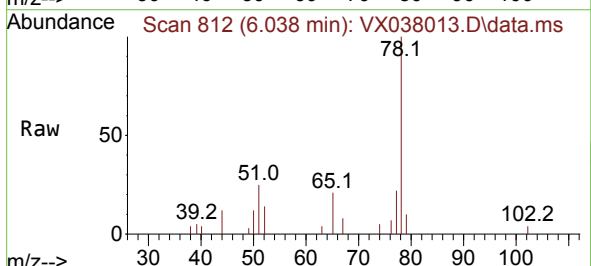


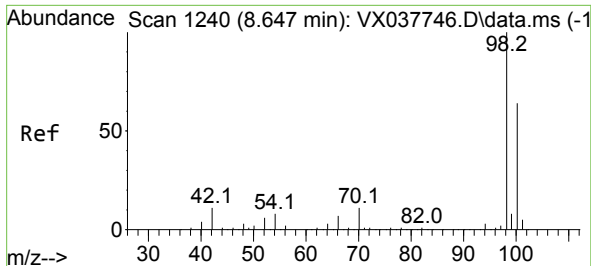
Tgt Ion:117 Resp: 17982  
Ion Ratio Lower Upper  
117 100  
119 4.7 78.2 117.2#  
121 0.0 24.4 36.6#



#40  
Benzene  
Concen: 0.602 ug/l  
RT: 6.038 min Scan# 812  
Delta R.T. -0.006 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

Tgt Ion: 78 Resp: 5200  
Ion Ratio Lower Upper  
78 100  
77 22.3 19.3 28.9

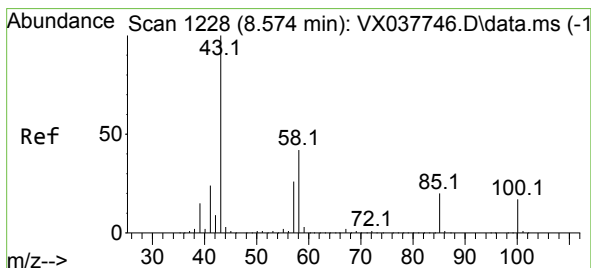
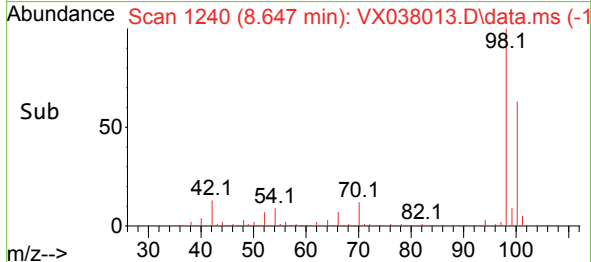
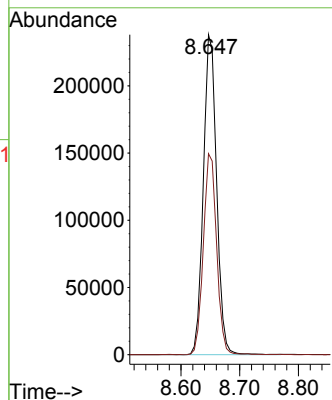
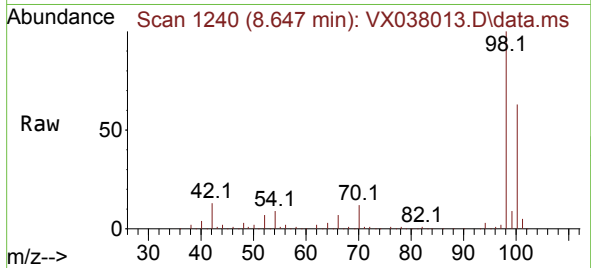




#50  
Toluene-d8  
Concen: 49.203 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

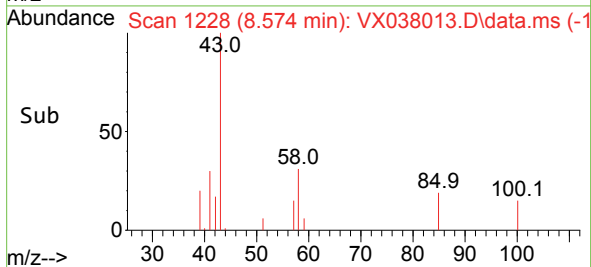
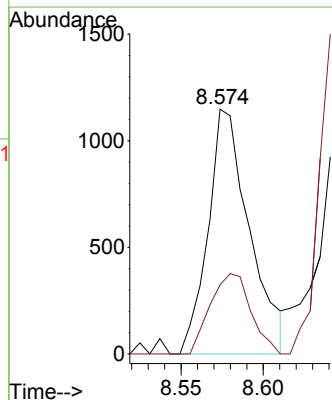
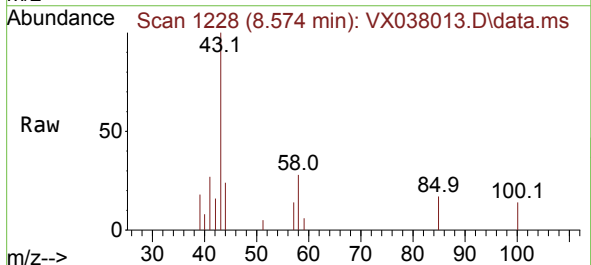
Instrument :  
MSVOA\_X  
ClientSampleId :

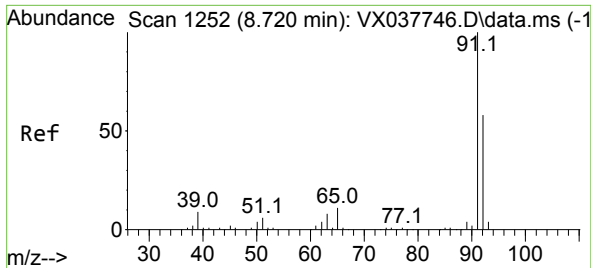
Tgt Ion: 98 Resp: 372951  
Ion Ratio Lower Upper  
98 100  
100 63.1 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.642 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

Tgt Ion: 43 Resp: 2011  
Ion Ratio Lower Upper  
43 100  
58 32.2 30.4 45.6

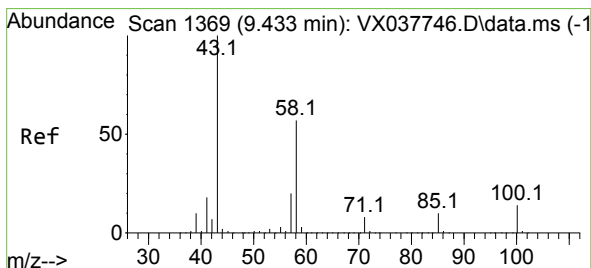
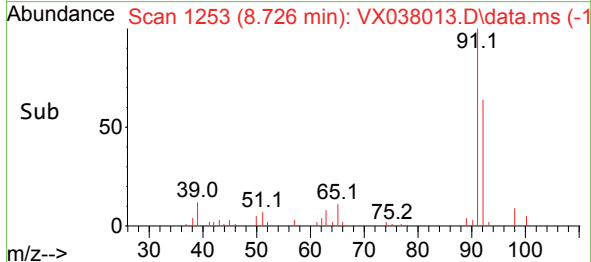
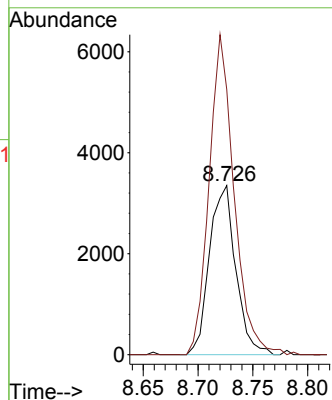
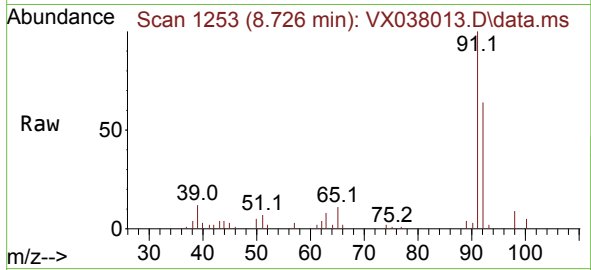




#52  
Toluene  
Concen: 1.006 ug/l  
RT: 8.726 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

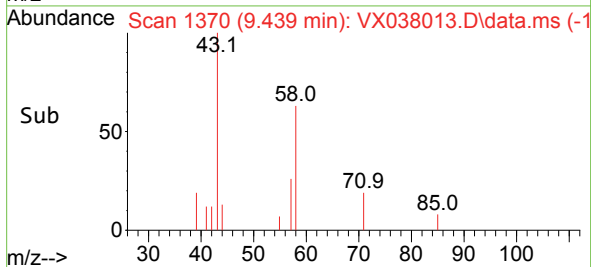
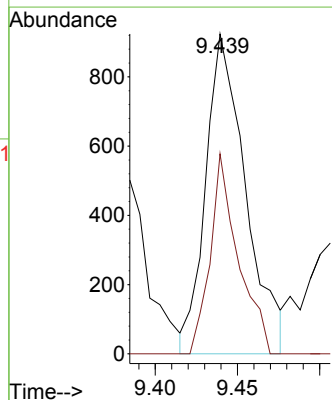
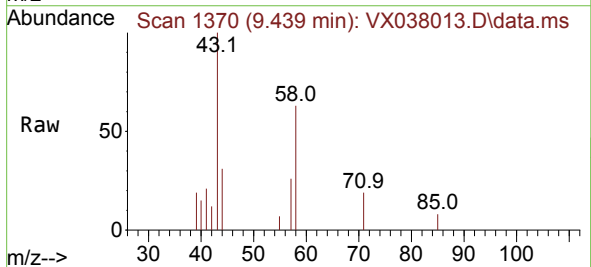
Instrument :  
MSVOA\_X  
ClientSampleId :

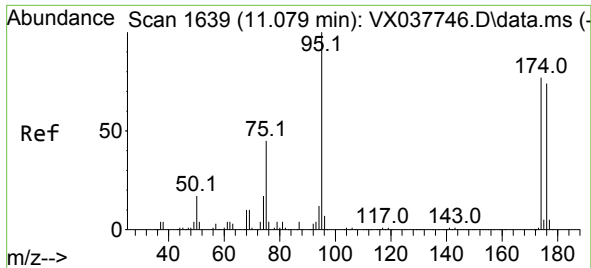
Tgt Ion: 92 Resp: 5603  
Ion Ratio Lower Upper  
92 100  
91 179.9 134.2 201.2



#59  
2-Hexanone  
Concen: 0.640 ug/l  
RT: 9.439 min Scan# 1370  
Delta R.T. 0.006 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

Tgt Ion: 43 Resp: 1563  
Ion Ratio Lower Upper  
43 100  
58 43.9 26.2 78.5

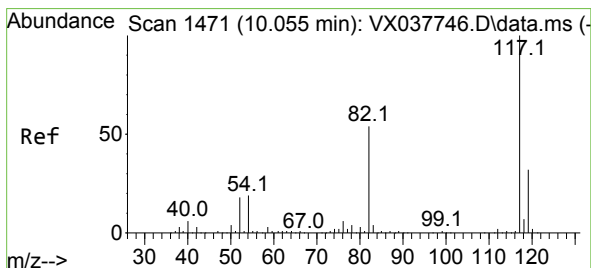
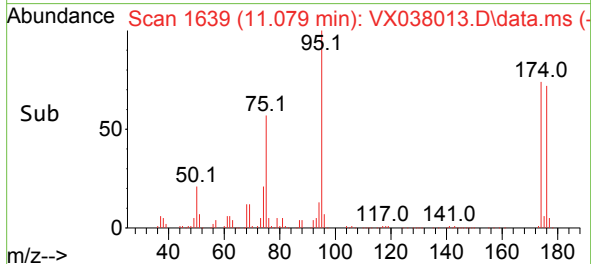
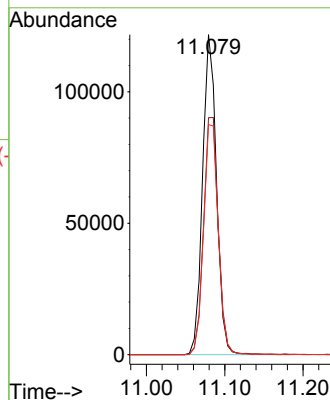
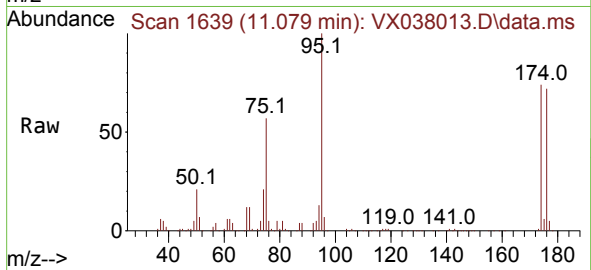




#62  
4-Bromofluorobenzene  
Concen: 54.479 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

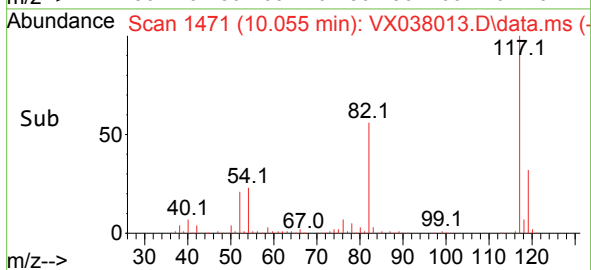
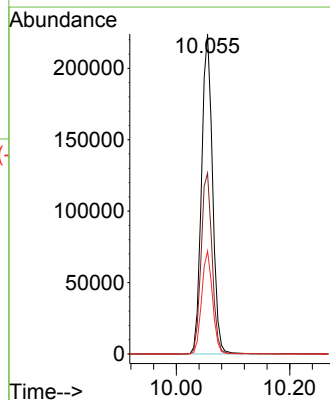
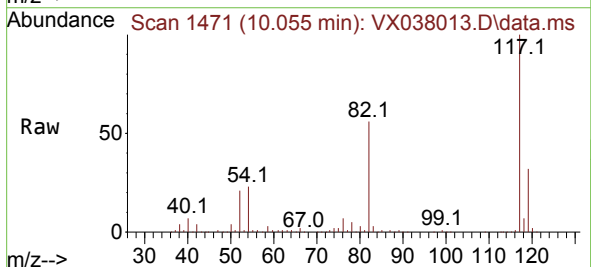
Instrument :  
MSVOA\_X  
ClientSampleId :

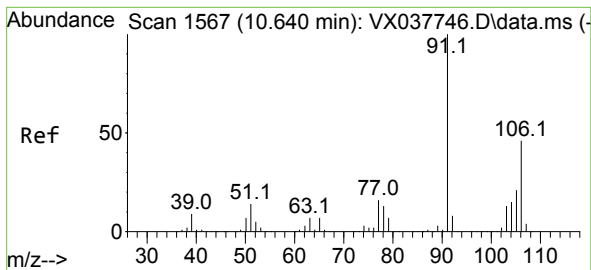
Tgt Ion: 95 Resp: 150053  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 135.6  
176 76.2 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX038013.D  
Acq: 30 Sep 2023 18:45

Tgt Ion: 117 Resp: 301630  
Ion Ratio Lower Upper  
117 100  
82 56.5 46.2 69.4  
119 32.2 25.5 38.3





#69

o-Xylene

Concen: 2.563 ug/l

RT: 10.640 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

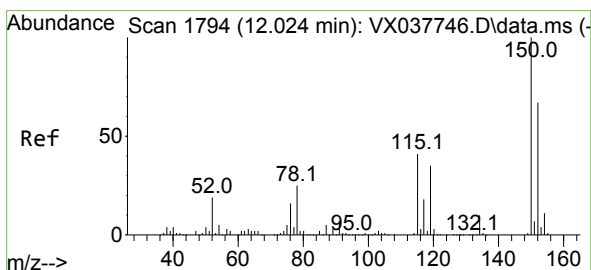
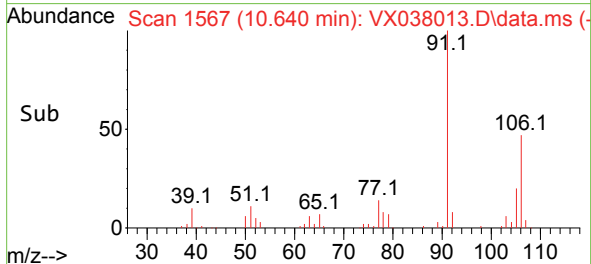
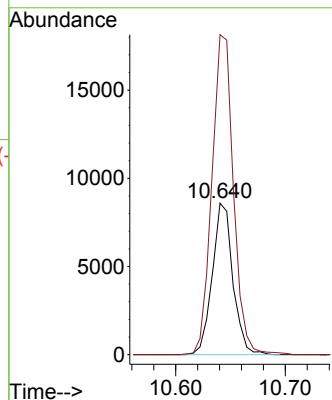
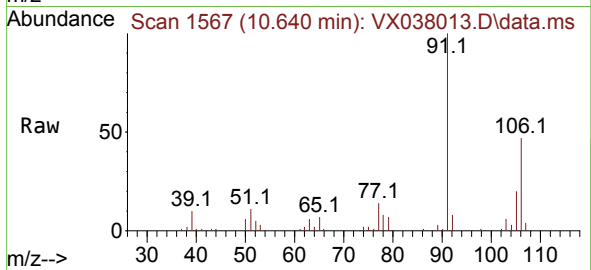
ClientSampleId :

Tgt Ion:106 Resp: 11201

Ion Ratio Lower Upper

106 100

91 221.6 108.9 326.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

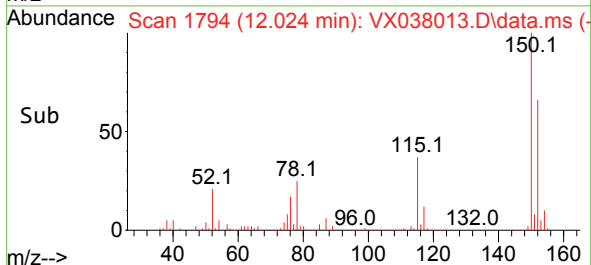
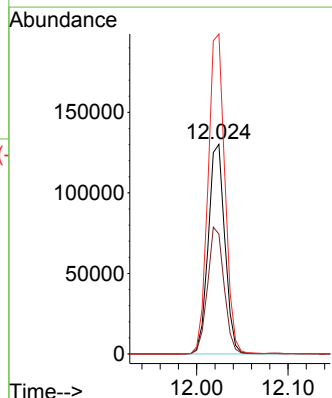
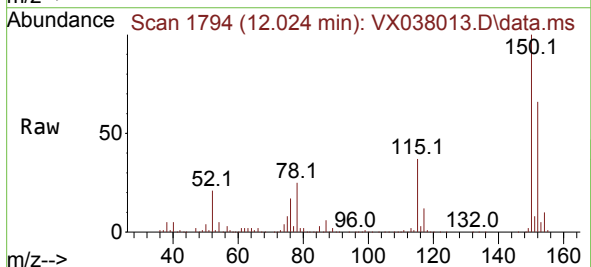
Tgt Ion:152 Resp: 163802

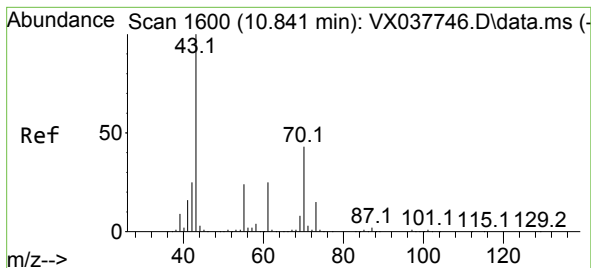
Ion Ratio Lower Upper

152 100

115 60.3 43.3 129.9

150 155.0 0.0 345.0





#74

N-amy1 acetate

Concen: 1.127 ug/l

RT: 10.768 min Scan# 1639

Delta R.T. -0.079 min

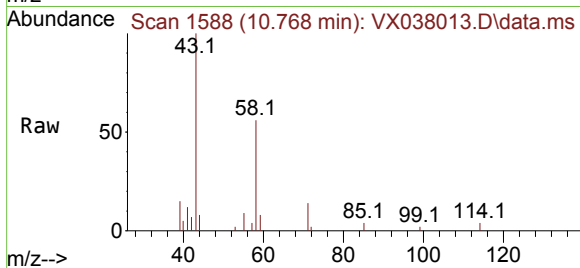
Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 43 Resp: 5487

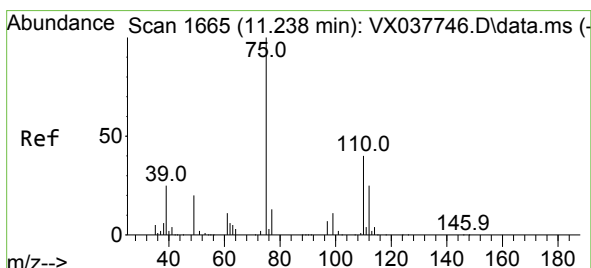
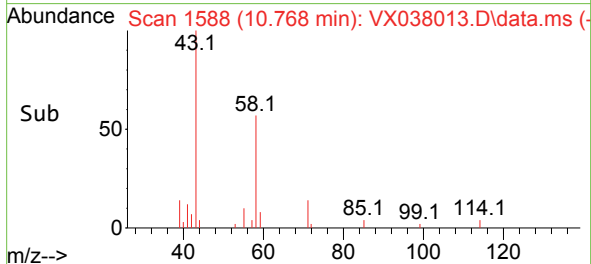
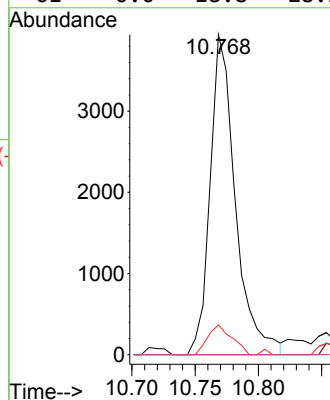
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 8.9 19.3 28.9#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 22.220 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038013.D

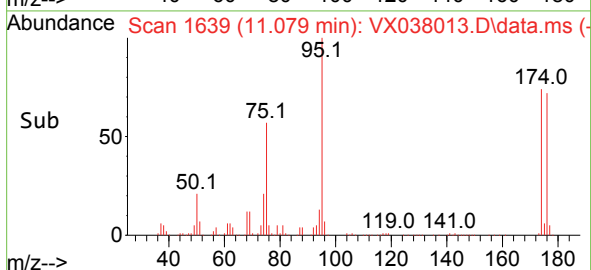
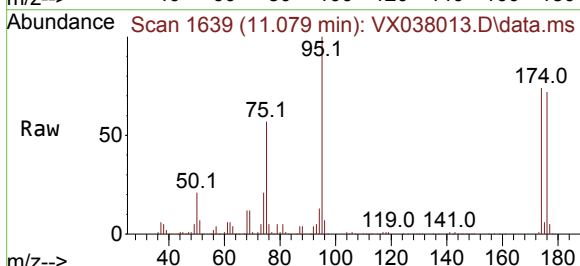
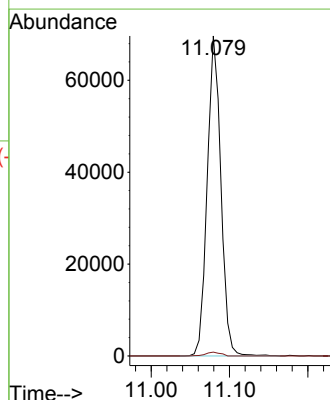
Acq: 30 Sep 2023 18:45

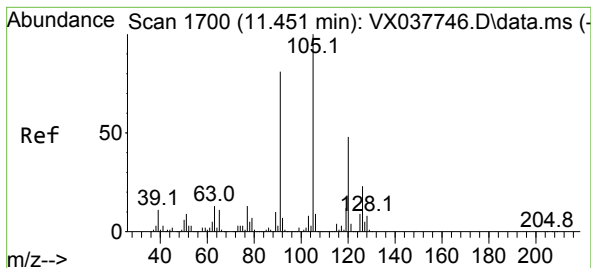
Tgt Ion: 75 Resp: 84182

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.413 ug/l

RT: 11.451 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

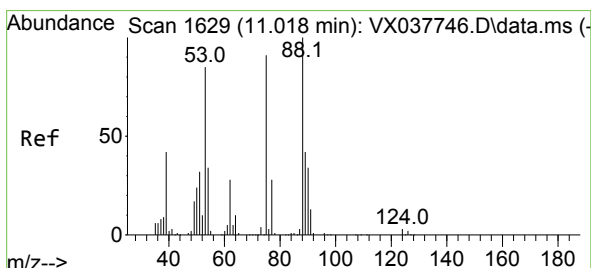
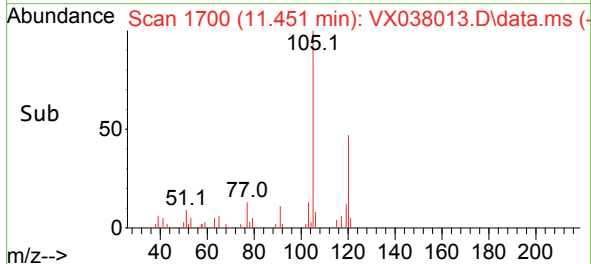
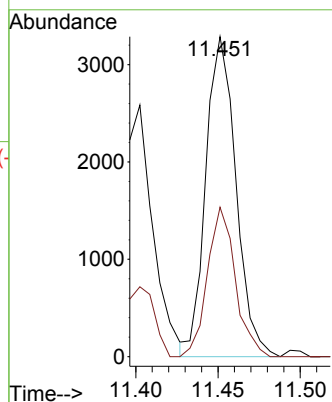
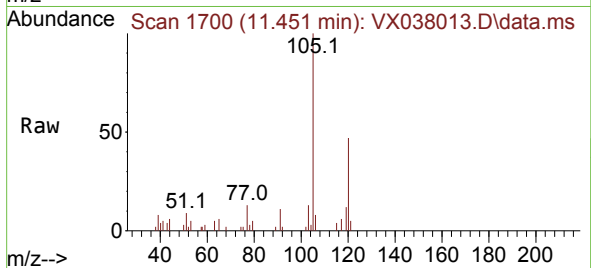
ClientSampleId :

Tgt Ion:105 Resp: 4188

Ion Ratio Lower Upper

105 100

120 43.1 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 71.179 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

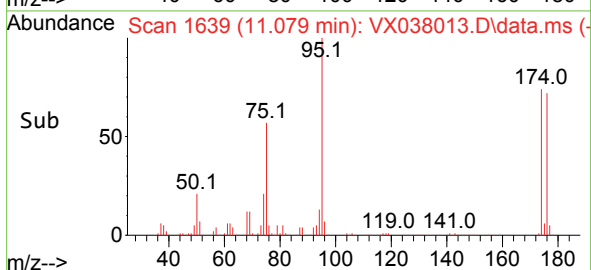
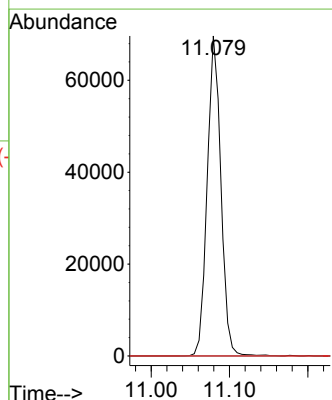
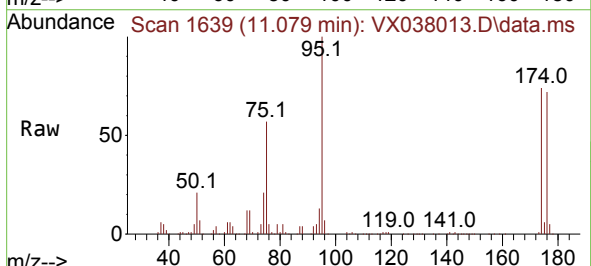
Tgt Ion: 75 Resp: 84182

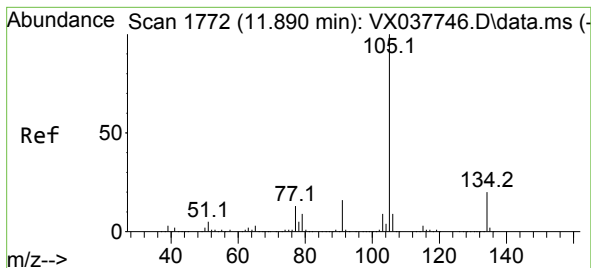
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#85

sec-Butylbenzene

Concen: 0.975 ug/l

RT: 12.085 min Scan# 1804

Delta R.T. 0.195 min

Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

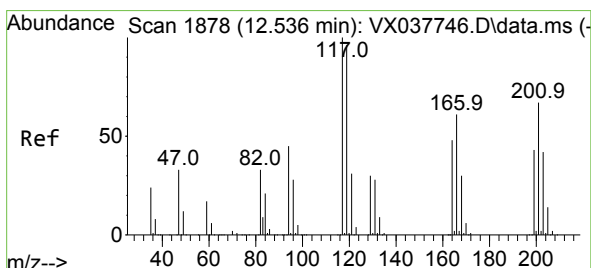
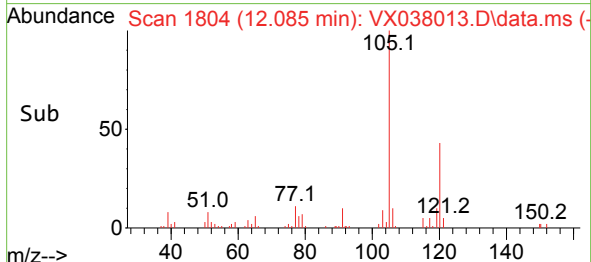
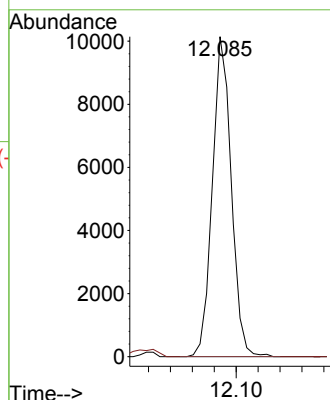
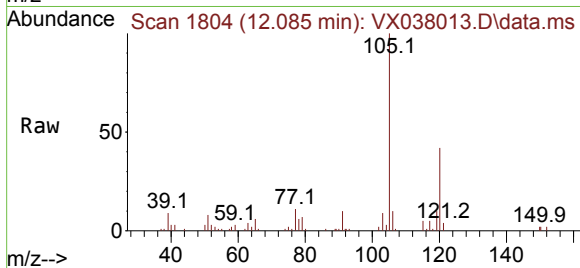
ClientSampleId :

Tgt Ion:105 Resp: 12137

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.4#



#90

Hexachloroethane

Concen: 0.319 ug/l

RT: 12.616 min Scan# 1891

Delta R.T. 0.079 min

Lab File: VX038013.D

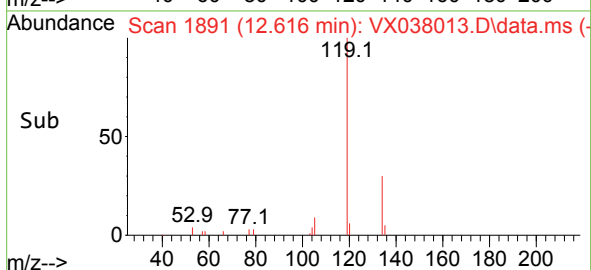
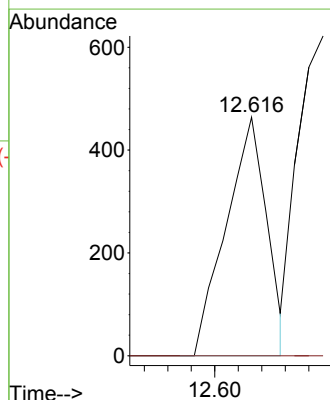
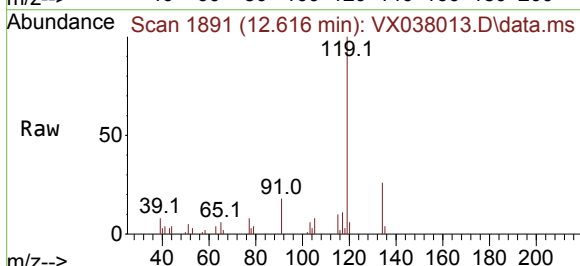
Acq: 30 Sep 2023 18:45

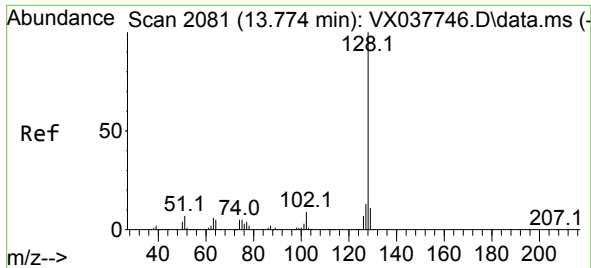
Tgt Ion:117 Resp: 560

Ion Ratio Lower Upper

117 100

201 0.0 32.9 98.6#





#95

Naphthalene

Concen: 2.054 ug/l

RT: 13.774 min Scan# 20

Delta R.T. -0.006 min

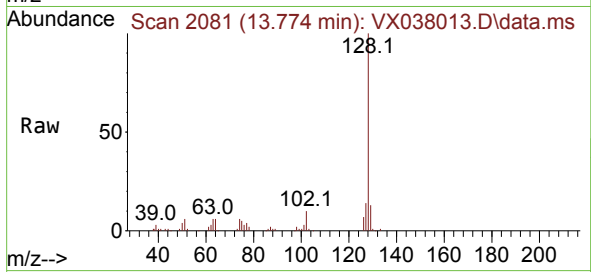
Lab File: VX038013.D

Acq: 30 Sep 2023 18:45

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:128 Resp: 23165

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 11.0 8.8 13.2

