

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061923\  
 Data File : VX036200.D  
 Acq On : 19 Jun 2023 12:48  
 Operator : JC/MD  
 Sample : VX0619MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 20 03:40:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 16 16:28:40 2023  
 Response via : Initial Calibration

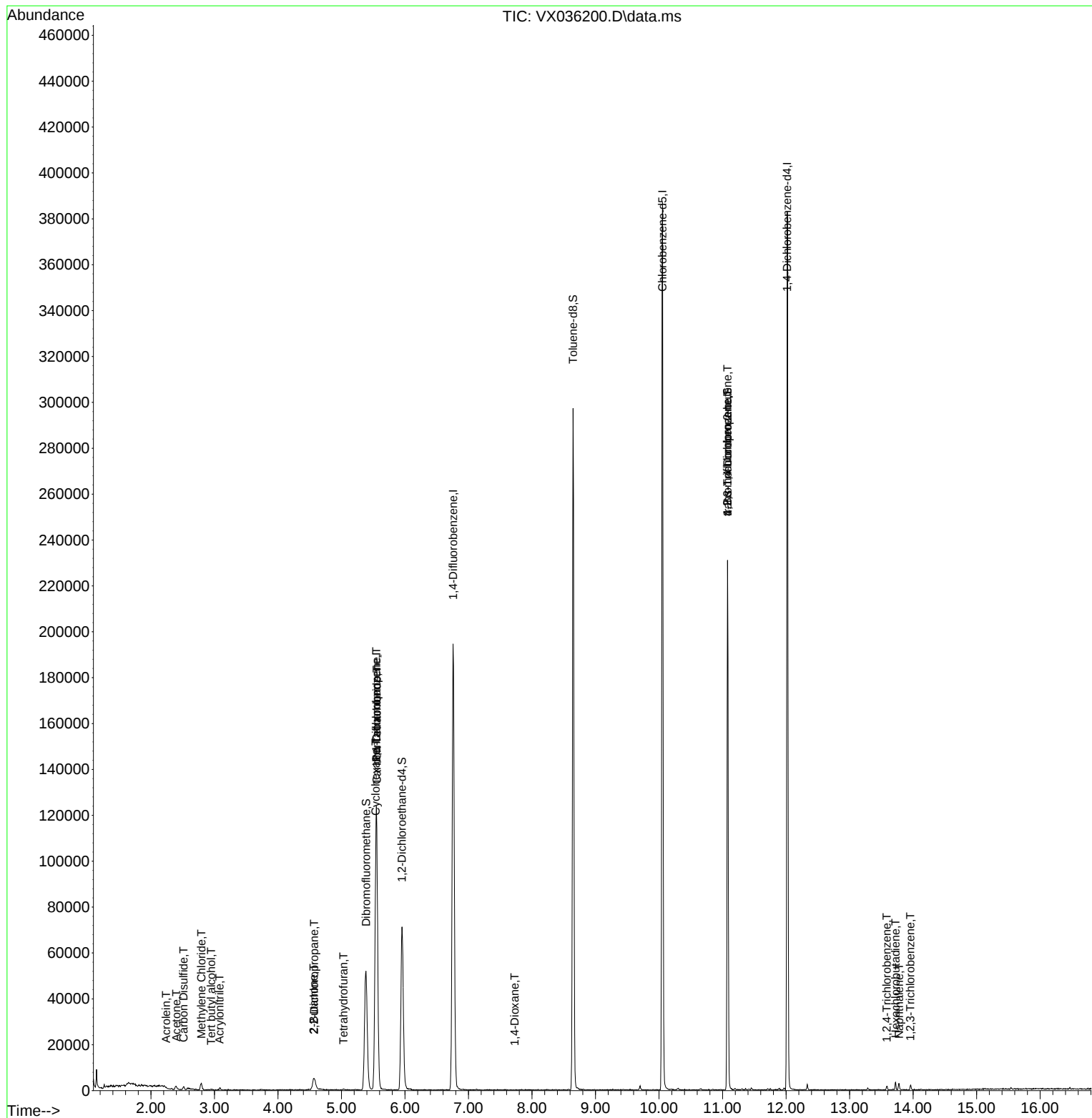
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 101735     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 181677     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 163527     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 71980      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 73966      | 39.785   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 79.560%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 45846      | 37.213   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 74.420%# |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 164728     | 36.554   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 73.100%# |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 62035      | 34.102   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 68.200%# |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.947          | 59   | 164        | 0.577    | ug/l # | 78       |
| 13) Acrolein                  | 2.239          | 56   | 279        | 0.884    | ug/l # | 76       |
| 15) Acrylonitrile             | 3.081          | 53   | 348        | 0.479    | ug/l # | 88       |
| 16) Acetone                   | 2.398          | 43   | 1855       | 2.402    | ug/l # | 85       |
| 17) Carbon Disulfide          | 2.514          | 76   | 1509       | 0.556    | ug/l # | 83       |
| 20) Methylene Chloride        | 2.794          | 84   | 1267       | 0.905    | ug/l   | 94       |
| 25) 2-Butanone                | 4.562          | 43   | 279        | 0.258    | ug/l # | 51       |
| 26) 2,2-Dichloropropane       | 4.568          | 77   | 382        | 0.201    | ug/l # | 54       |
| 29) Tetrahydrofuran           | 5.032          | 42   | 341        | 0.497    | ug/l # | 34       |
| 31) Cyclohexane               | 5.538          | 56   | 2968       | 1.488    | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 10163      | 5.600    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 11980      | 6.791    | ug/l # | 16       |
| 49) 1,4-Dioxane               | 7.726          | 88   | 19         | 0.684    | ug/l # | 12       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 34498      | 20.195   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 34498      | 70.685   | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.585         | 180  | 500        | 0.377    | ug/l # | 78       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 420        | 0.800    | ug/l   | 93       |
| 95) Naphthalene               | 13.780         | 128  | 1922       | 0.420    | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.957         | 180  | 545        | 0.409    | ug/l   | 92       |
| -----                         |                |      |            |          |        |          |

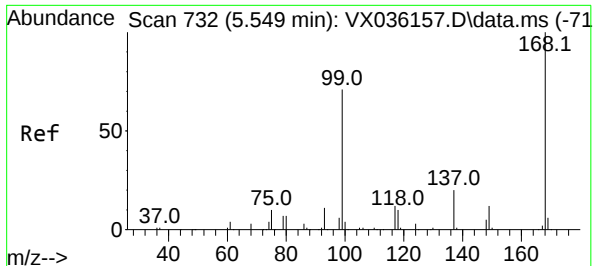
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061923\  
Data File : VX036200.D  
Acq On : 19 Jun 2023 12:48  
Operator : JC/MD  
Sample : VX0619MBL01  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

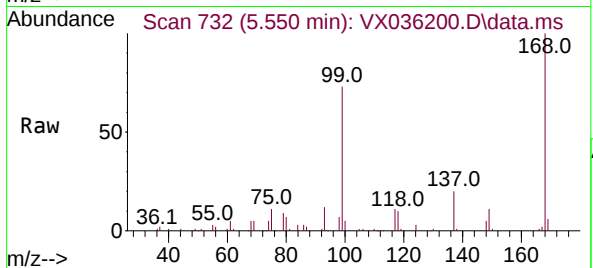
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061623W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 16 16:28:40 2023  
Response via : Initial Calibration



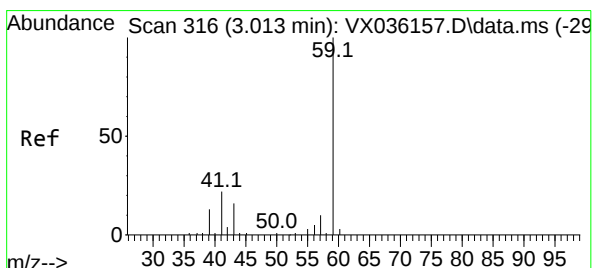
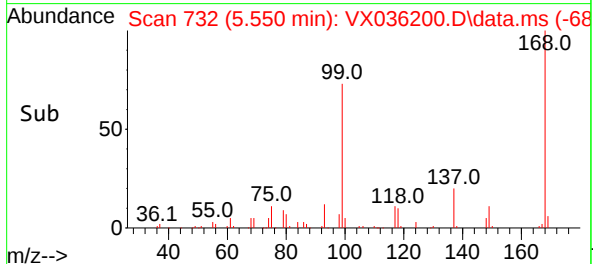
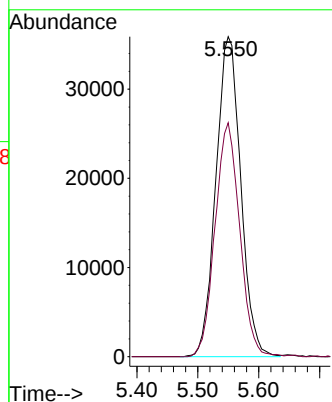


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.001 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

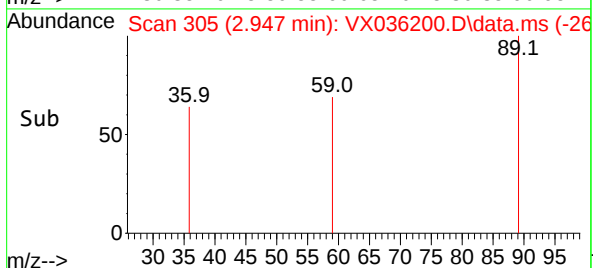
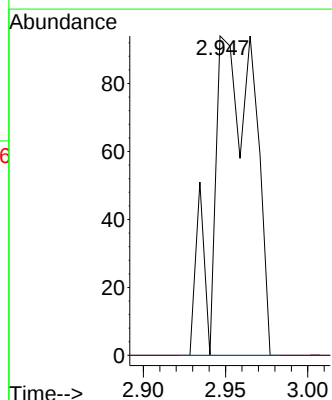
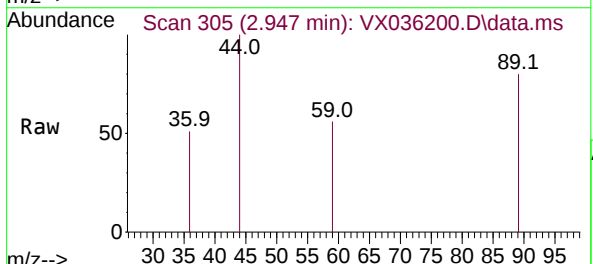


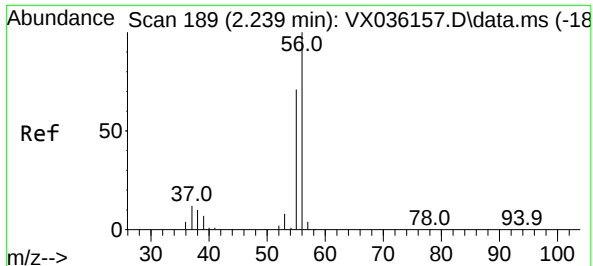
Tgt Ion:168 Resp: 101735  
Ion Ratio Lower Upper  
168 100  
99 73.1 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 0.577 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.066 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

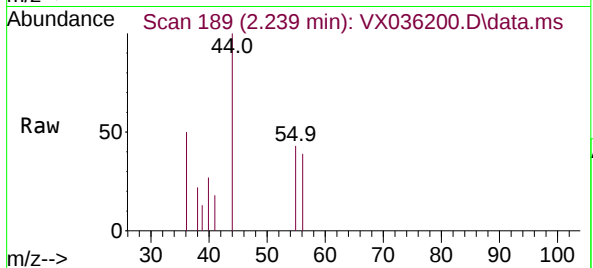
Tgt Ion: 59 Resp: 164  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



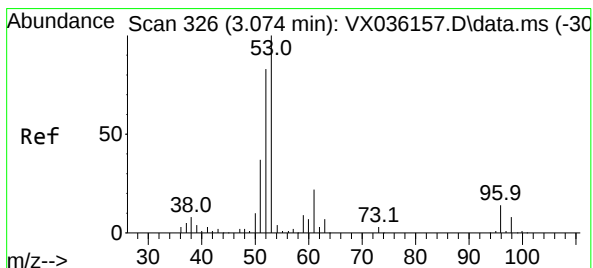
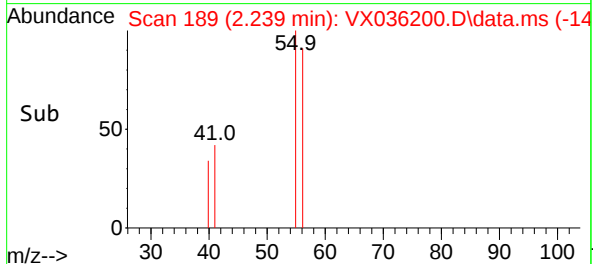
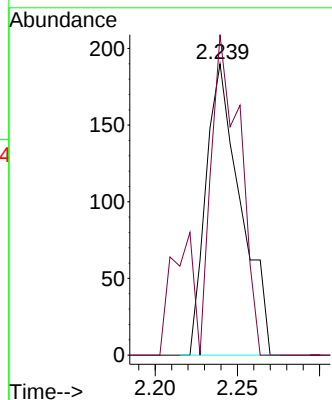


#13  
Acrolein  
Concen: 0.884 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

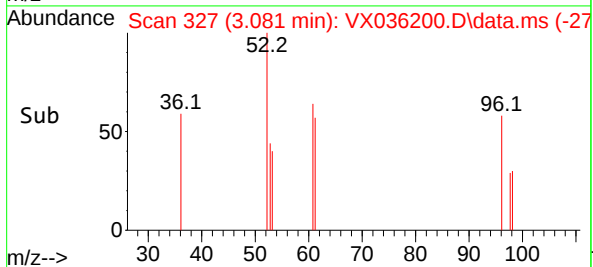
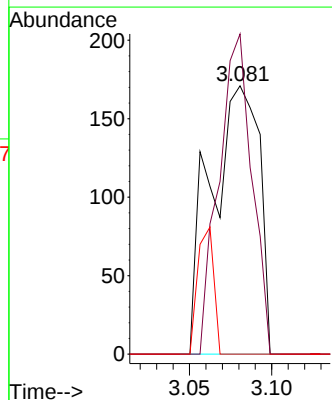
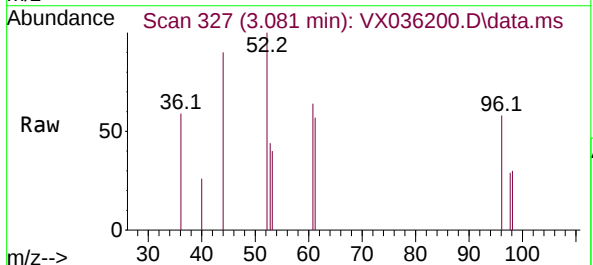


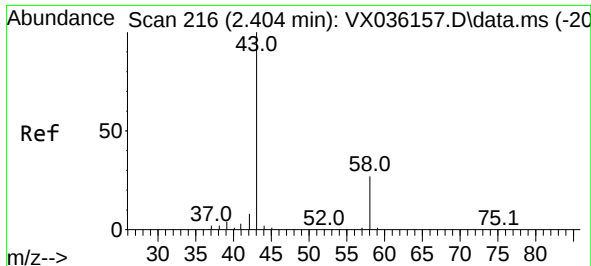
Tgt Ion: 56 Resp: 279  
Ion Ratio Lower Upper  
56 100  
55 91.4 57.1 85.7#



#15  
Acrylonitrile  
Concen: 0.479 ug/l  
RT: 3.081 min Scan# 327  
Delta R.T. 0.007 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Tgt Ion: 53 Resp: 348  
Ion Ratio Lower Upper  
53 100  
52 81.9 66.0 99.0  
51 15.8 29.8 44.6#

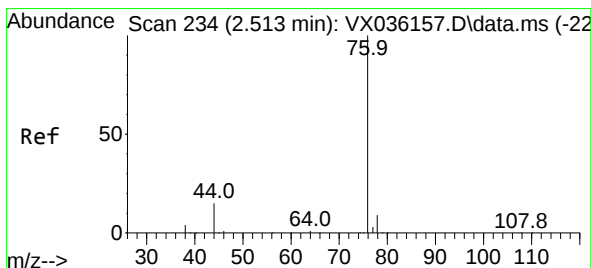
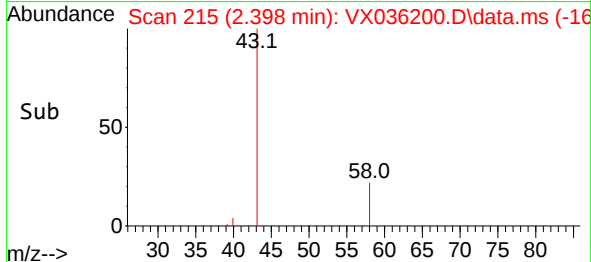
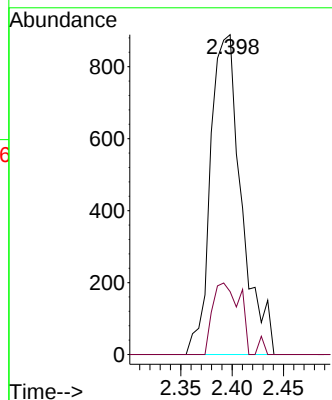
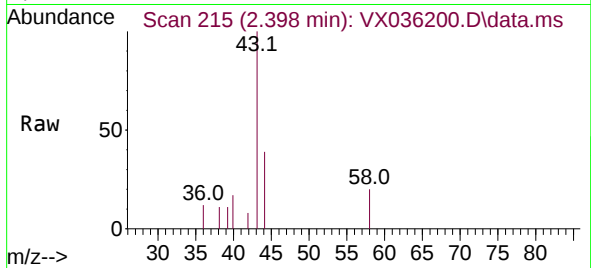




#16  
Acetone  
Concen: 2.402 ug/l  
RT: 2.398 min Scan# 216  
Delta R.T. -0.006 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

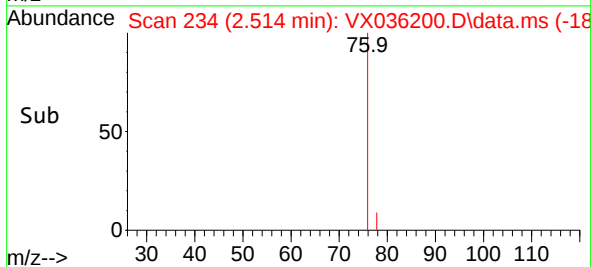
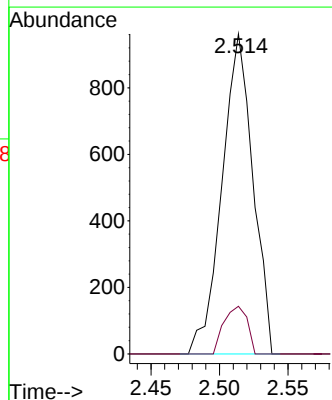
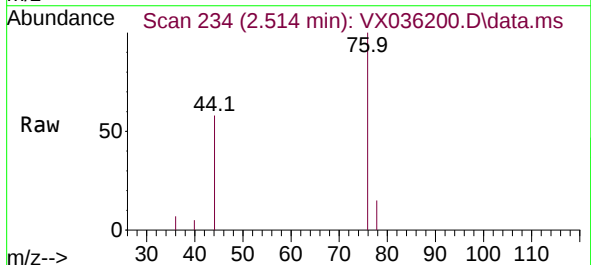
Instrument :  
MSVOA\_X  
ClientSampleId :

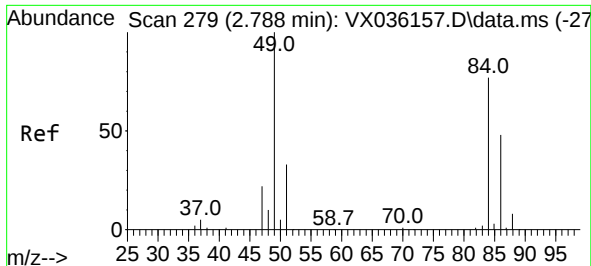
Tgt Ion: 43 Resp: 1855  
Ion Ratio Lower Upper  
43 100  
58 19.7 21.9 32.9#



#17  
Carbon Disulfide  
Concen: 0.556 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.001 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Tgt Ion: 76 Resp: 1509  
Ion Ratio Lower Upper  
76 100  
78 14.9 7.0 10.6#





#20

Methylene Chloride

Concen: 0.905 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX036200.D

Acq: 19 Jun 2023 12:48

Instrument :

MSVOA\_X

ClientSampleId :

Tgt Ion: 84 Resp: 1267

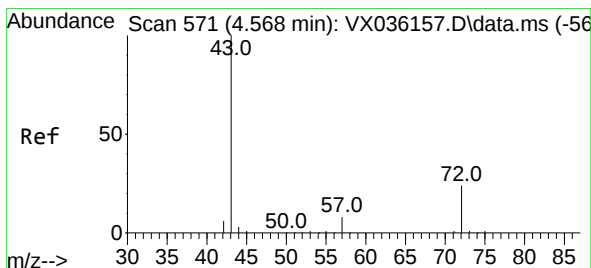
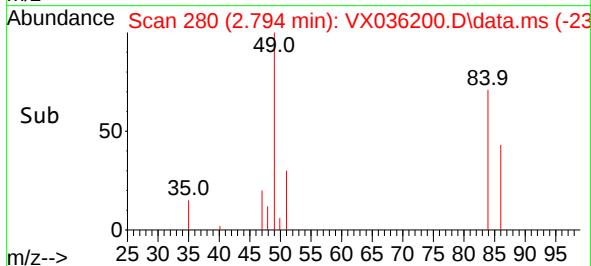
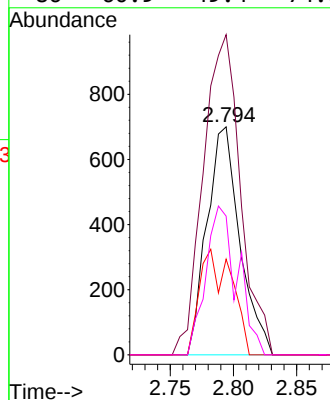
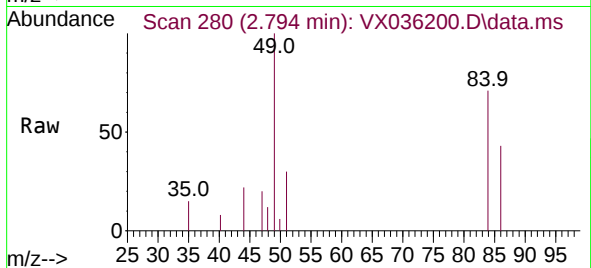
Ion Ratio Lower Upper

84 100

49 140.4 103.6 155.4

51 42.0 33.8 50.6

86 60.9 49.4 74.0



#25

2-Butanone

Concen: 0.258 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.006 min

Lab File: VX036200.D

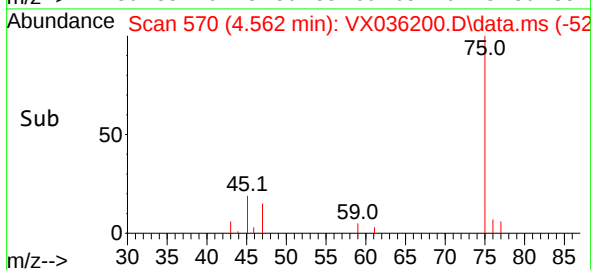
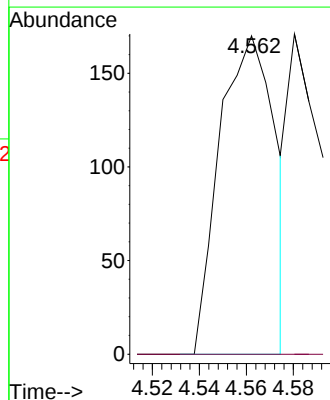
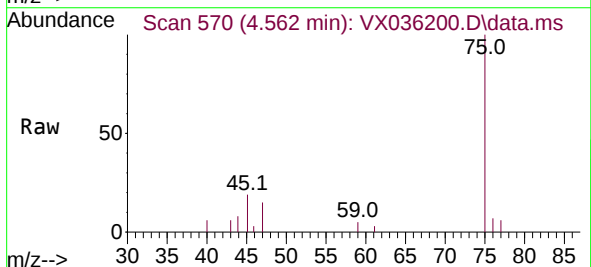
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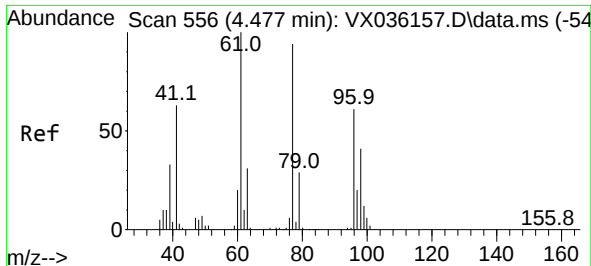
Tgt Ion: 43 Resp: 279

Ion Ratio Lower Upper

43 100

72 0.0 19.4 29.2#





#26

2,2-Dichloropropane

Concen: 0.201 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.091 min

Lab File: VX036200.D

Acq: 19 Jun 2023 12:48

Instrument :

MSVOA\_X

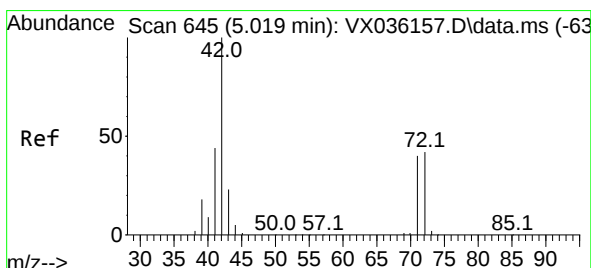
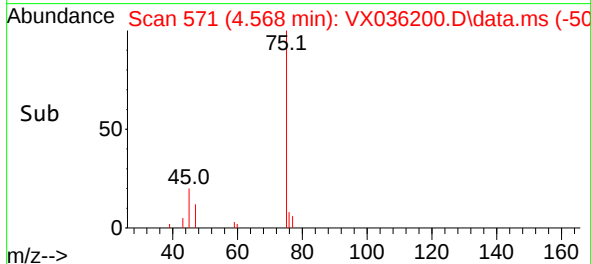
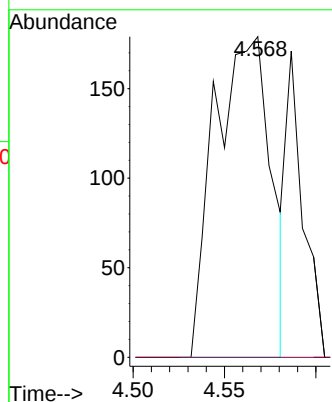
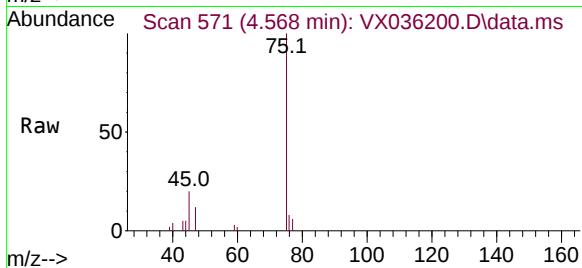
ClientSampleId :

Tgt Ion: 77 Resp: 382

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.3#



#29

Tetrahydrofuran

Concen: 0.497 ug/l

RT: 5.032 min Scan# 647

Delta R.T. 0.013 min

Lab File: VX036200.D

Acq: 19 Jun 2023 12:48

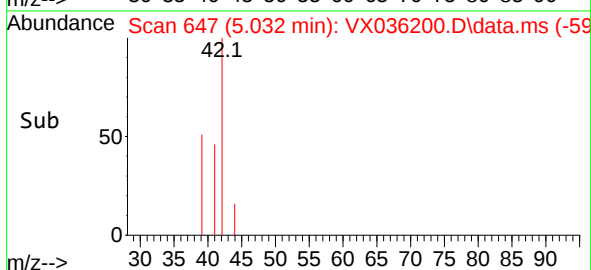
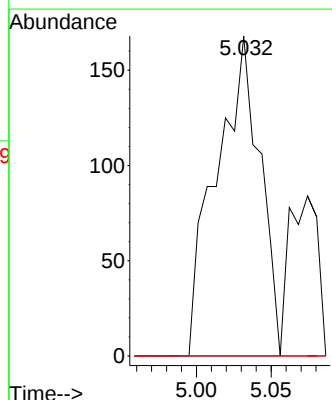
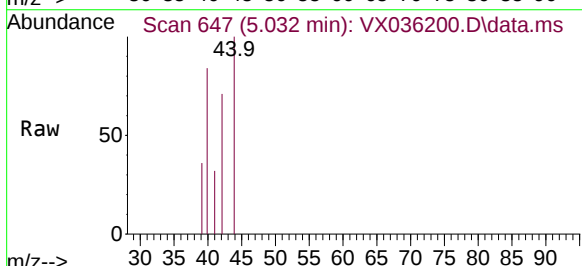
Tgt Ion: 42 Resp: 341

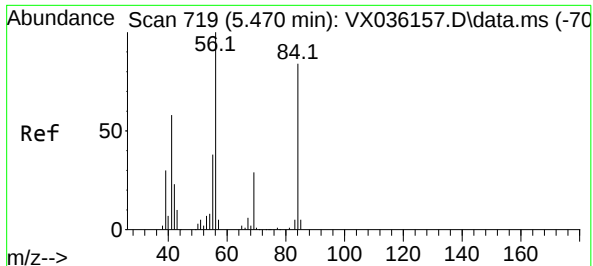
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

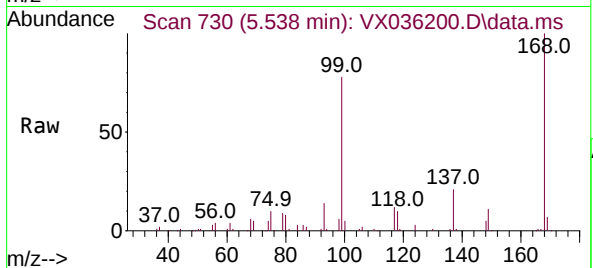
71 0.0 32.2 48.2#



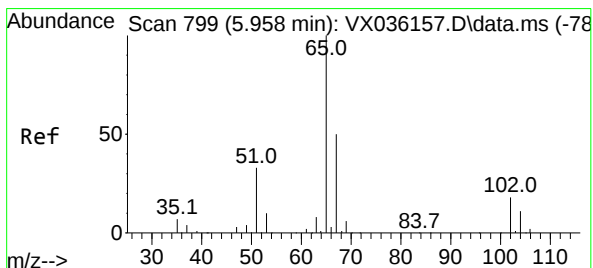
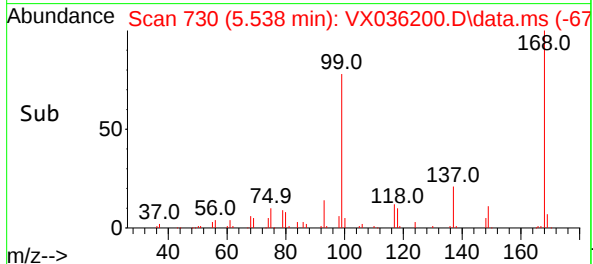
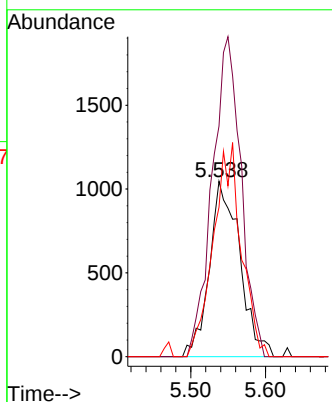


#31  
Cyclohexane  
Concen: 1.488 ug/l  
RT: 5.538 min Scan# 719  
Delta R.T. 0.068 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

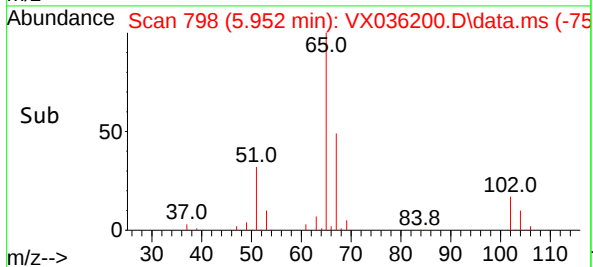
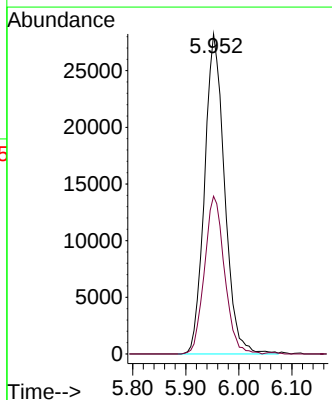
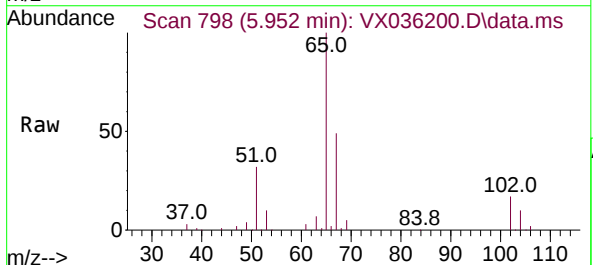


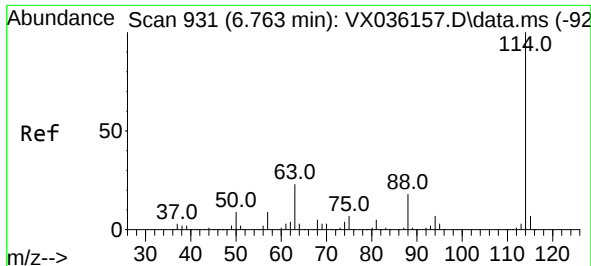
Tgt Ion: 56 Resp: 2968  
Ion Ratio Lower Upper  
56 100  
69 131.5 23.4 35.2#  
84 85.3 65.9 98.9



#33  
1,2-Dichloroethane-d4  
Concen: 39.785 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Tgt Ion: 65 Resp: 73966  
Ion Ratio Lower Upper  
65 100  
67 49.4 0.0 100.2

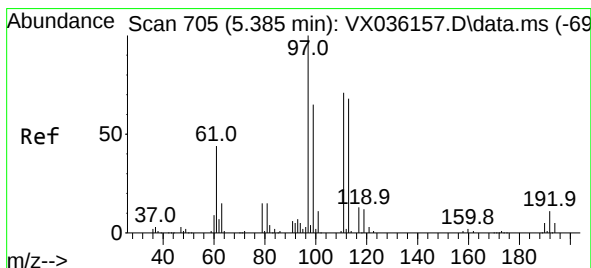
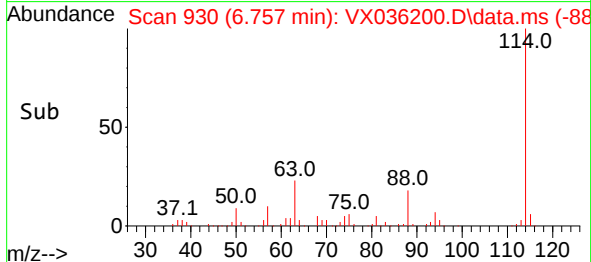
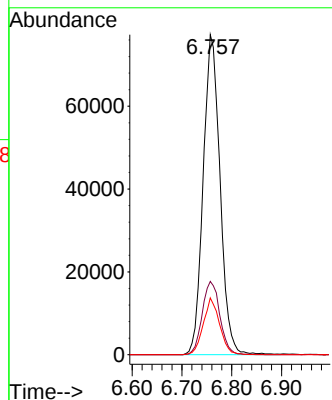
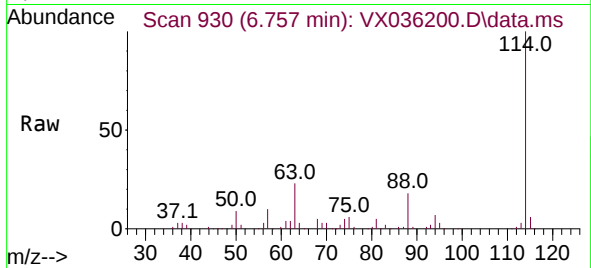




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

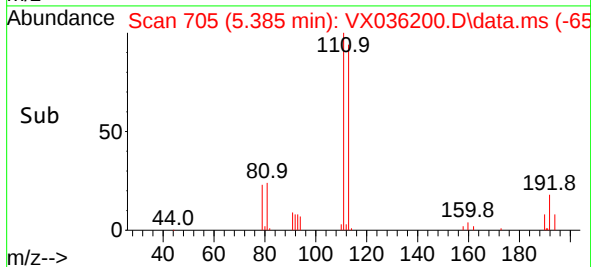
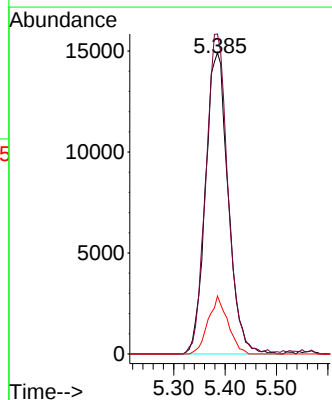
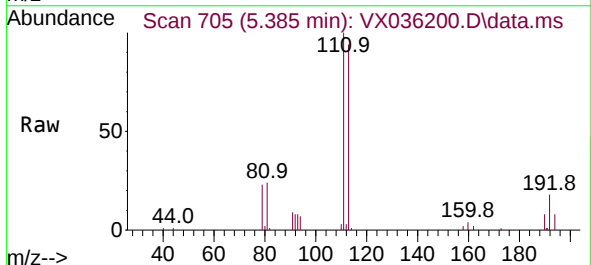
Instrument :  
MSVOA\_X  
ClientSampleId :

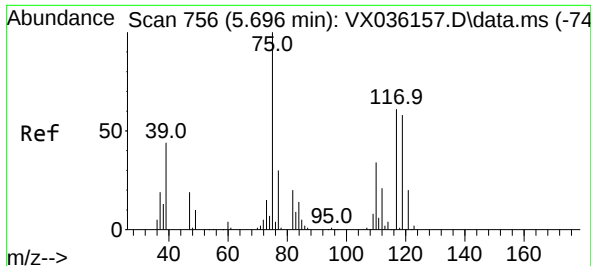
Tgt Ion:114 Resp: 181677  
Ion Ratio Lower Upper  
114 100  
63 22.9 0.0 45.0  
88 17.8 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 37.213 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Tgt Ion:113 Resp: 45846  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.9 124.3  
192 16.7 13.3 19.9

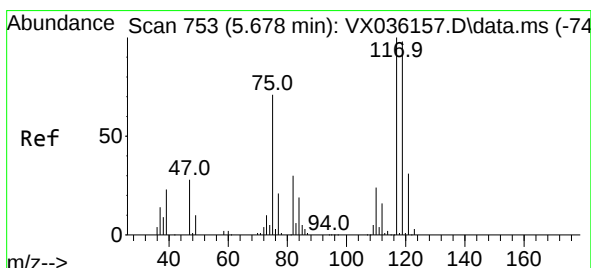
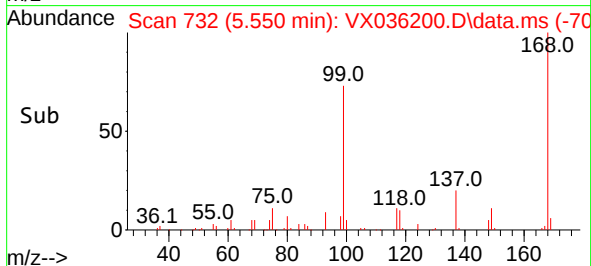
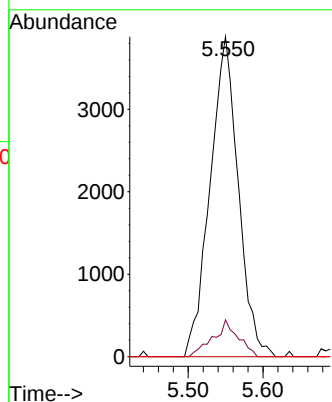
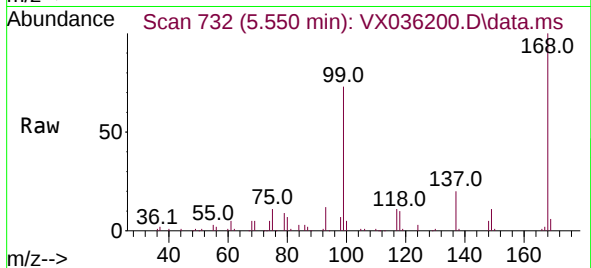




#36  
1,1-Dichloropropene  
Concen: 5.600 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

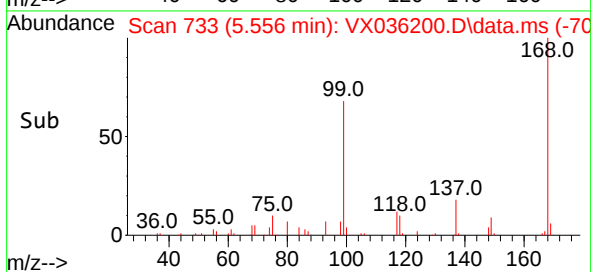
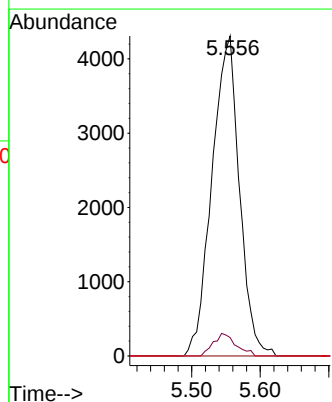
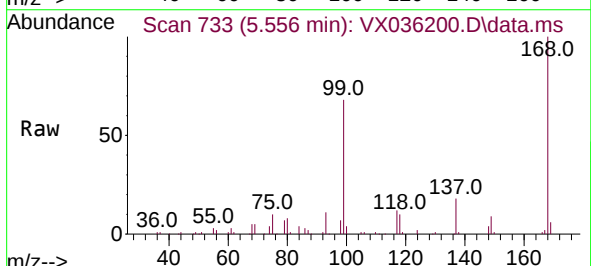
Instrument :  
MSVOA\_X  
ClientSampleId :

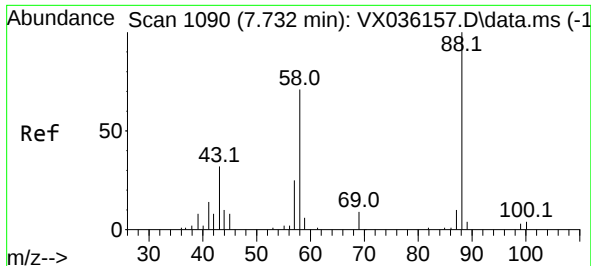
Tgt Ion: 75 Resp: 10163  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.791 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Tgt Ion: 117 Resp: 11980  
Ion Ratio Lower Upper  
117 100  
119 5.8 78.2 117.2#  
121 0.0 24.4 36.6#





#49

1,4-Dioxane

Concen: 0.684 ug/l

RT: 7.726 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VX036200.D

Acq: 19 Jun 2023 12:48

Instrument :

MSVOA\_X

ClientSampleId :

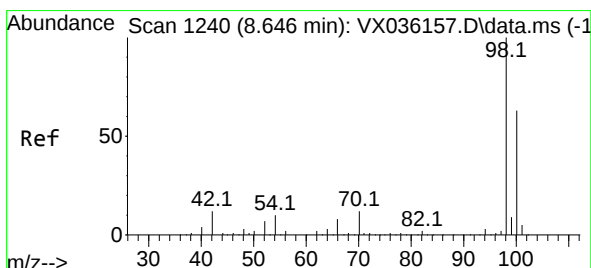
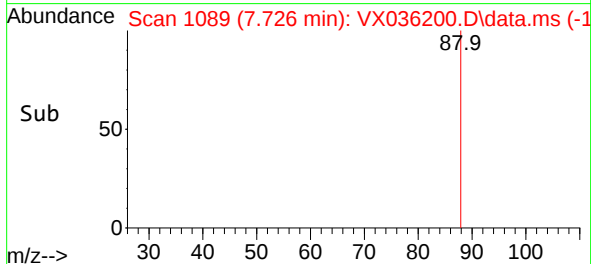
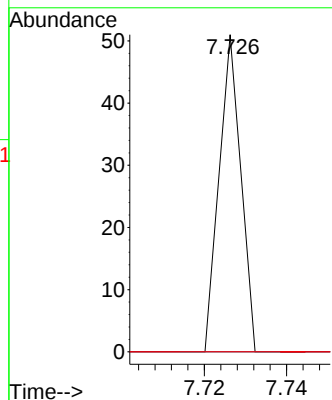
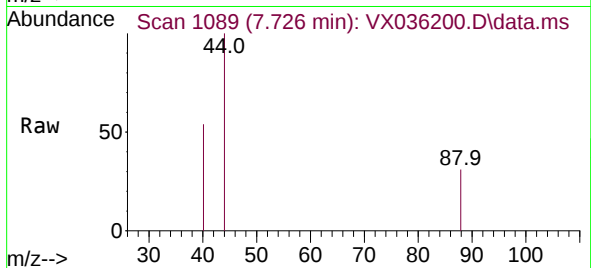
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 60.1 90.1#



#50

Toluene-d8

Concen: 36.554 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.001 min

Lab File: VX036200.D

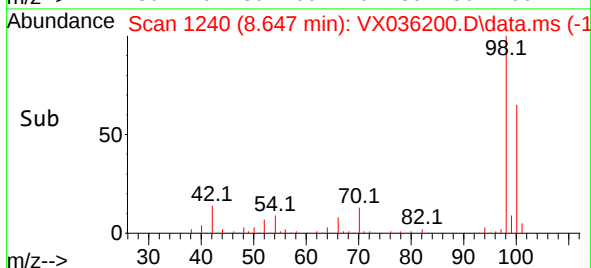
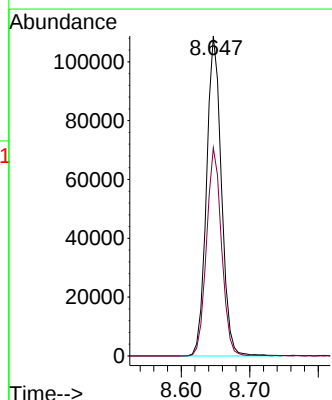
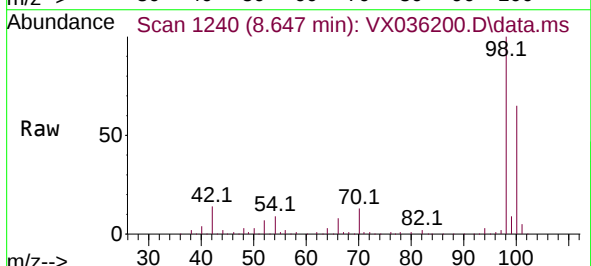
Acq: 19 Jun 2023 12:48

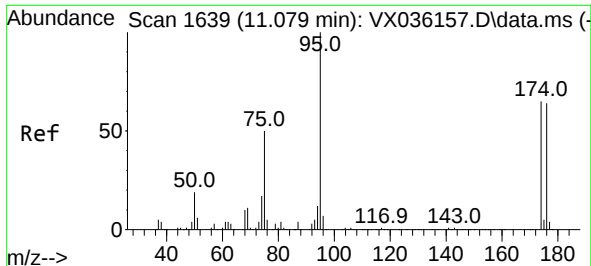
Tgt Ion: 98 Resp: 164728

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7

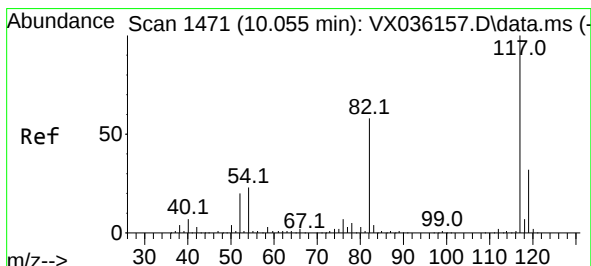
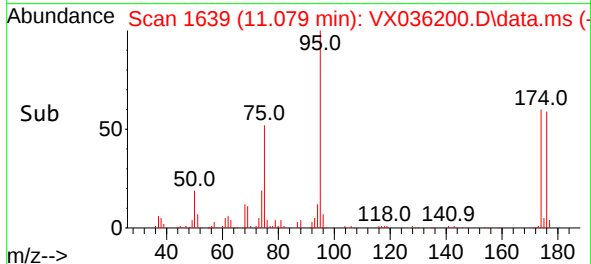
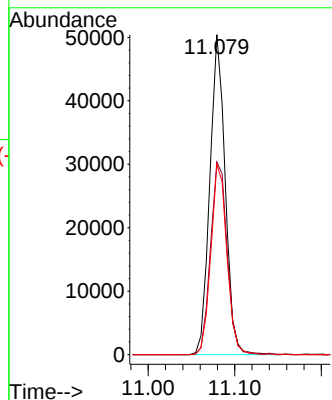
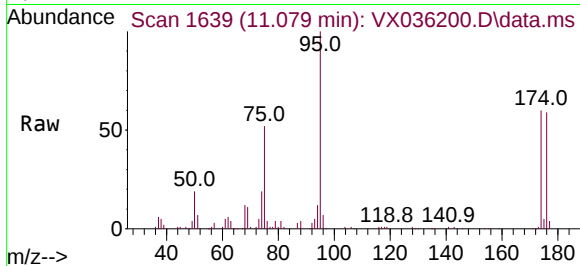




#62  
4-Bromofluorobenzene  
Concen: 34.102 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

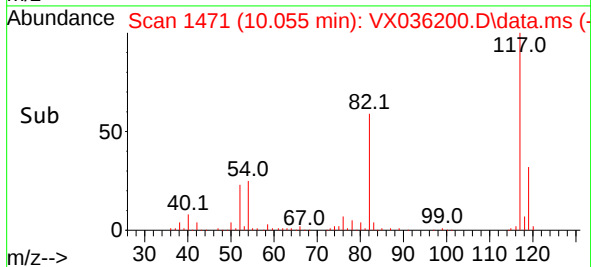
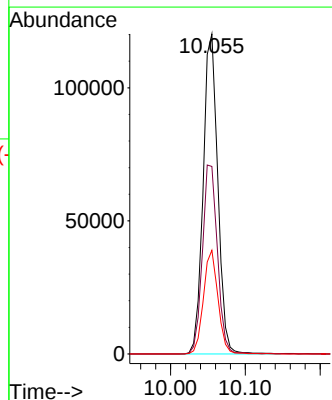
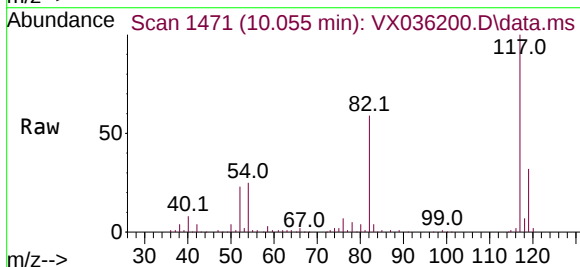
Instrument :  
MSVOA\_X  
ClientSampleId :

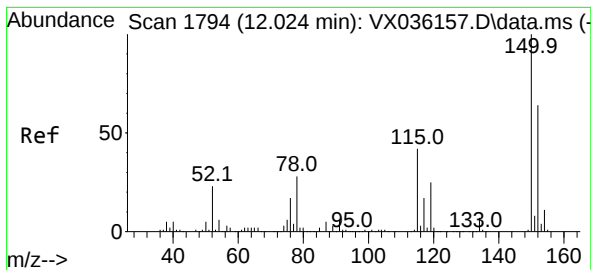
Tgt Ion: 95 Resp: 62035  
Ion Ratio Lower Upper  
95 100  
174 65.4 0.0 135.6  
176 62.1 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Tgt Ion: 117 Resp: 163527  
Ion Ratio Lower Upper  
117 100  
82 58.6 46.2 69.4  
119 32.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX036200.D

Acq: 19 Jun 2023 12:48

Instrument :

MSVOA\_X

ClientSampleId :

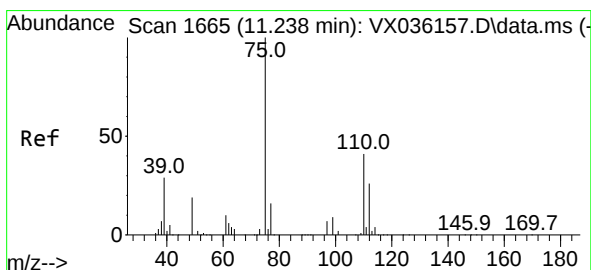
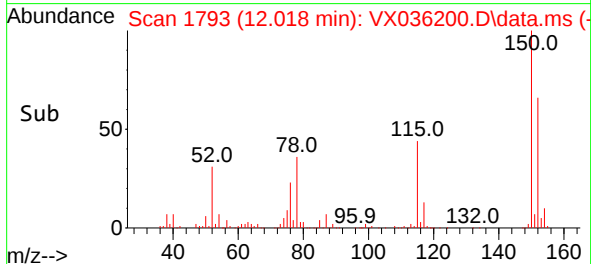
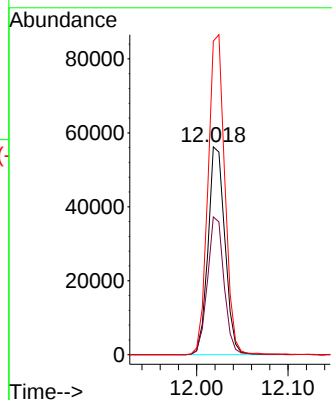
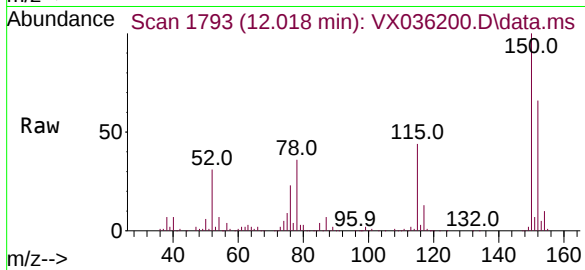
Tgt Ion:152 Resp: 71980

Ion Ratio Lower Upper

152 100

115 65.3 43.3 129.9

150 154.1 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.195 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036200.D

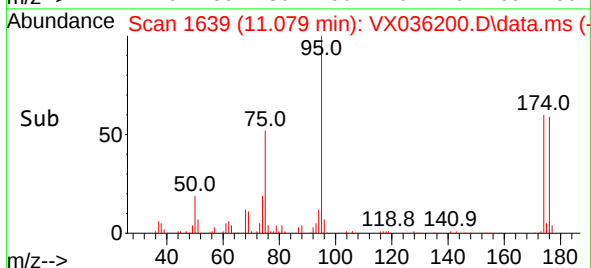
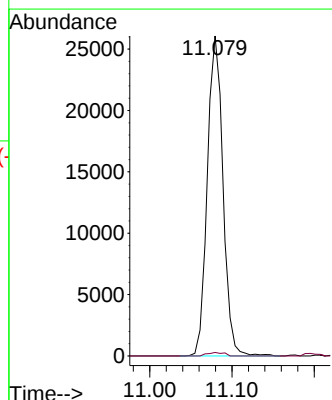
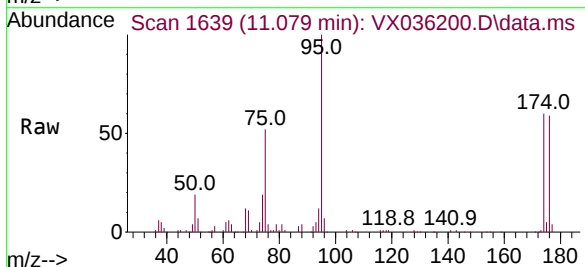
Acq: 19 Jun 2023 12:48

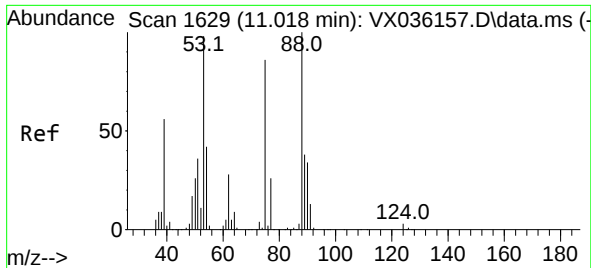
Tgt Ion: 75 Resp: 34498

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#

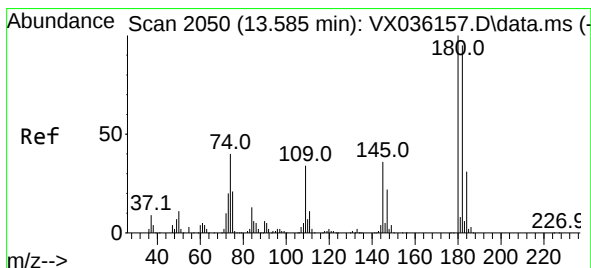
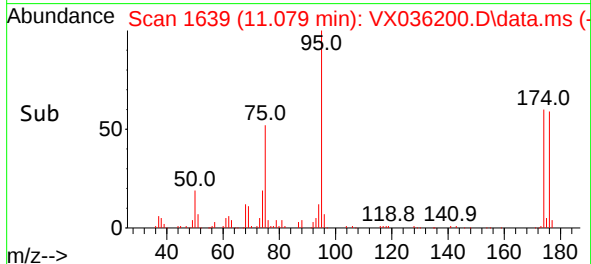
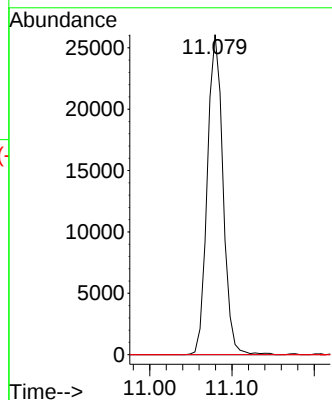
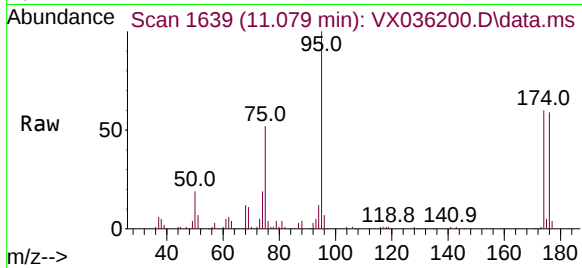




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.685 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

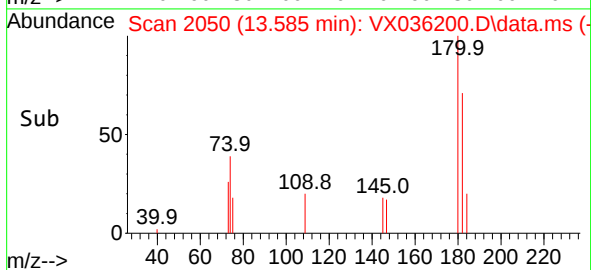
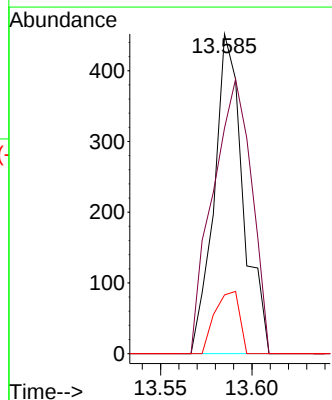
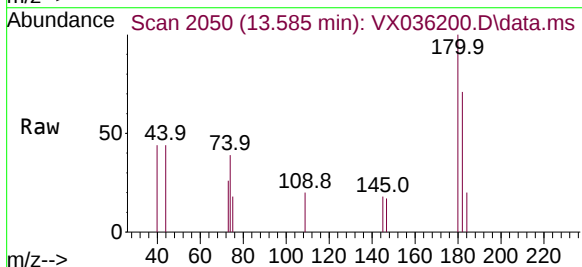
Instrument :  
MSVOA\_X  
ClientSampleId :

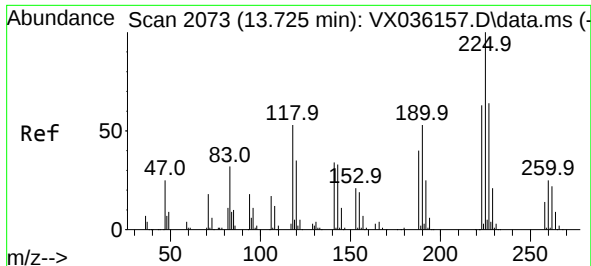
Tgt Ion: 75 Resp: 34498  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.377 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

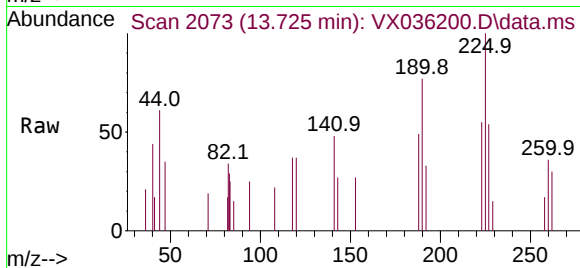
Tgt Ion:180 Resp: 500  
Ion Ratio Lower Upper  
180 100  
182 114.4 48.3 144.8  
145 16.6 18.0 54.0#



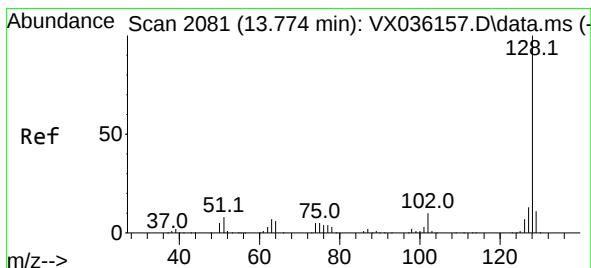
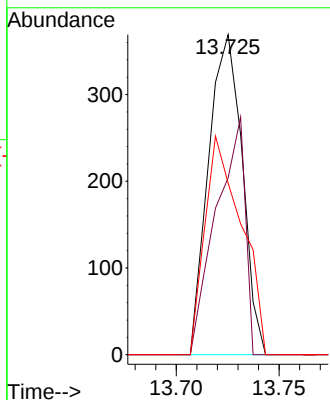
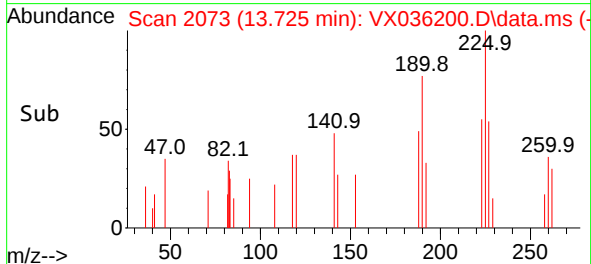


#94  
Hexachlorobutadiene  
Concen: 0.800 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

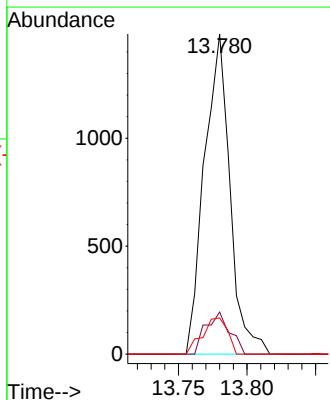
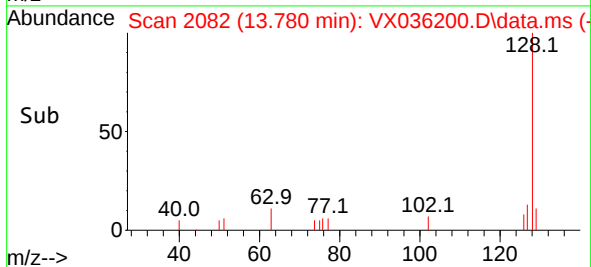
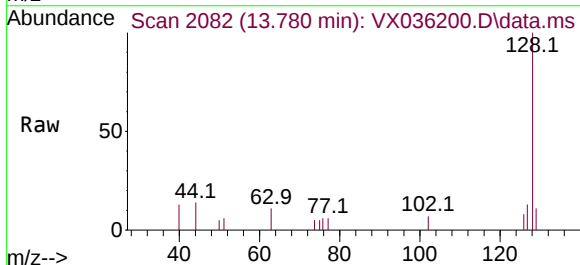


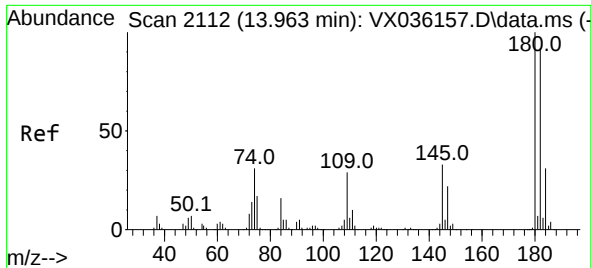
Tgt Ion:225 Resp: 420  
Ion Ratio Lower Upper  
225 100  
223 63.8 31.1 93.2  
227 74.3 32.5 97.5



#95  
Naphthalene  
Concen: 0.420 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.006 min  
Lab File: VX036200.D  
Acq: 19 Jun 2023 12:48

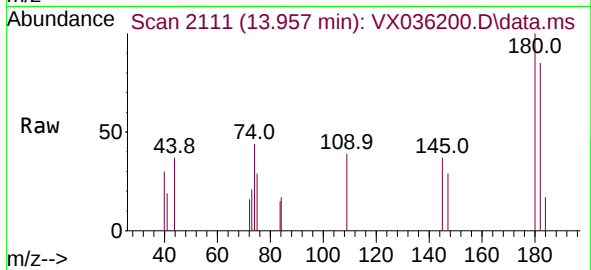
Tgt Ion:128 Resp: 1922  
Ion Ratio Lower Upper  
128 100  
127 12.4 10.3 15.5  
129 11.1 8.8 13.2





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.409 ug/l  
 RT: 13.957 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VX036200.D  
 Acq: 19 Jun 2023 12:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 545   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 102.9 | 46.9  | 140.6 |
| 145      | 38.0  | 17.8  | 53.5  |

