

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020524\  
 Data File : VX040121.D  
 Acq On : 05 Feb 2024 17:12  
 Operator : JC/MD  
 Sample : P1337-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-1

Quant Time: Feb 06 03:03:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X013024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 01 05:44:39 2024  
 Response via : Initial Calibration

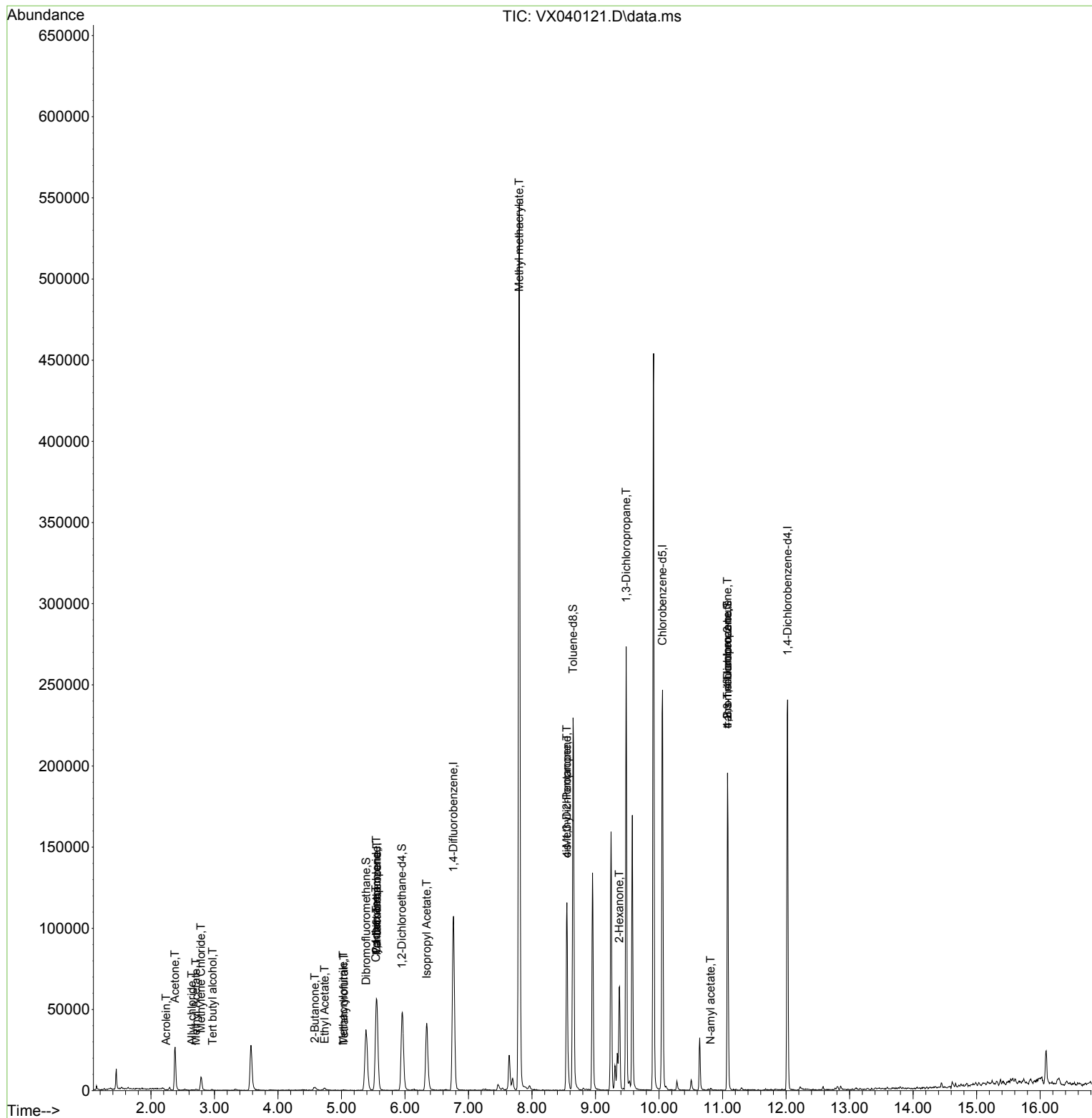
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 47974    | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 98923    | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 97853    | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 41633    | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 46293    | 59.959   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 119.920%# |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 32072    | 47.627   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 95.260%   |          |
| 50) Toluene-d8                | 8.647  | 98    | 129640   | 51.478   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 102.960%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 46671    | 48.130   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 96.260%   |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 11) Tert butyl alcohol        | 2.971  | 59    | 541      | 3.862    | ug/l #      | 78       |
| 13) Acrolein                  | 2.239  | 56    | 60       | 0.447    | ug/l        | 90       |
| 14) Allyl chloride            | 2.642  | 41    | 284      | 0.292    | ug/l #      | 47       |
| 16) Acetone                   | 2.380  | 43    | 28044    | 77.522   | ug/l        | 100      |
| 18) Methyl Acetate            | 2.709  | 43    | 970      | 1.132    | ug/l #      | 67       |
| 20) Methylene Chloride        | 2.788  | 84    | 3525     | 5.483    | ug/l #      | 83       |
| 25) 2-Butanone                | 4.580  | 43    | 4012     | 7.978    | ug/l #      | 78       |
| 29) Tetrahydrofuran           | 5.038  | 42    | 111      | 0.347    | ug/l #      | 59       |
| 31) Cyclohexane               | 5.544  | 56    | 1684     | 1.741    | ug/l #      | 61       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 5119     | 5.256    | ug/l #      | 50       |
| 37) Ethyl Acetate             | 4.733  | 43    | 1807     | 1.699    | ug/l        | 97       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 5771     | 6.193    | ug/l #      | 11       |
| 41) Methacrylonitrile         | 5.025  | 41    | 176      | 0.326    | ug/l #      | 25       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 58696    | 34.994   | ug/l        | 95       |
| 48) Methyl methacrylate       | 7.799  | 41    | 49426    | 59.820   | ug/l #      | 50       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 44284    | 38.677   | ug/l #      | 45       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 16329    | 14.737   | ug/l #      | 65       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 1869     | 1.550    | ug/l #      | 42       |
| 59) 2-Hexanone                | 9.372  | 43    | 50814    | 55.662   | ug/l #      | 26       |
| 74) N-amyl acetate            | 10.811 | 43    | 447      | 0.528    | ug/l #      | 44       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 29066    | 32.784   | ug/l #      | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 29066    | 92.487   | ug/l #      | 5        |
| -----                         |        |       |          |          |             |          |

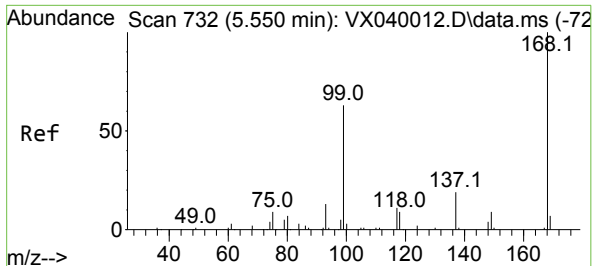
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020524\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X013024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 01 05:44:39 2024  
Response via : Initial Calibration

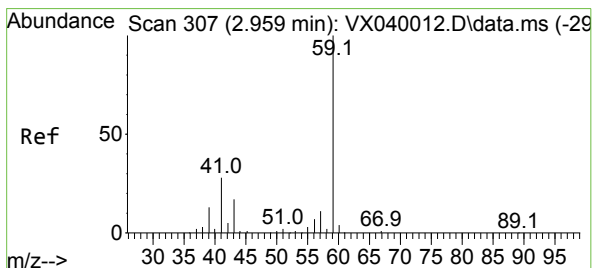
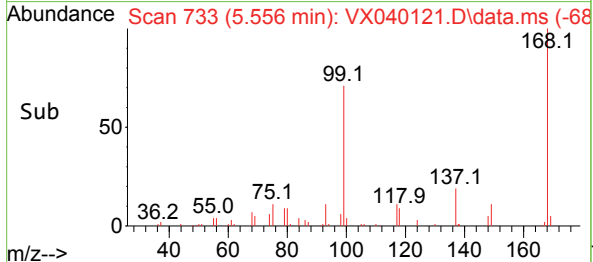
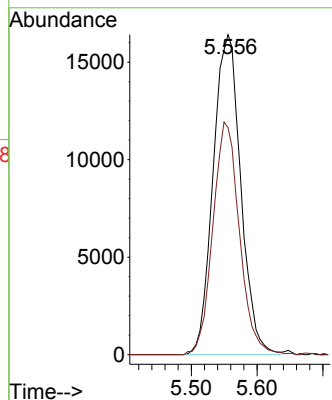
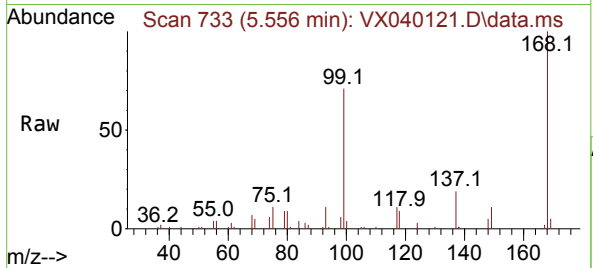




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

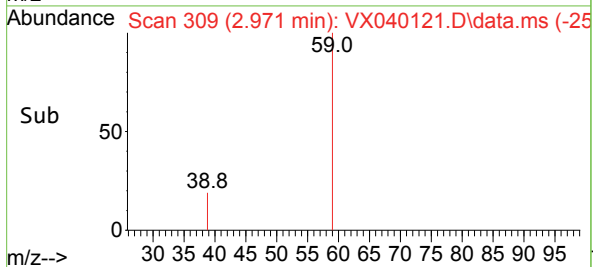
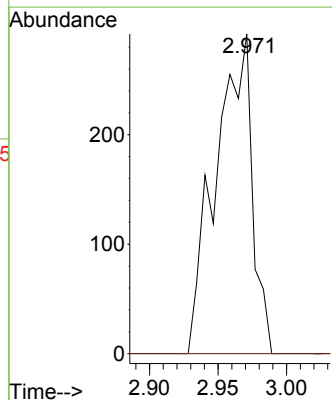
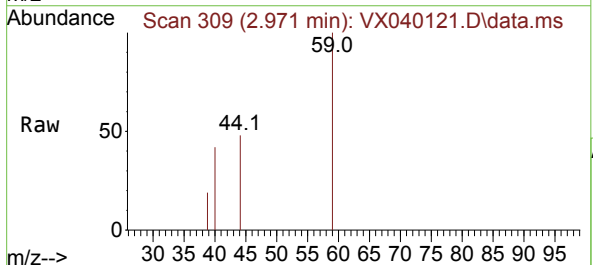
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

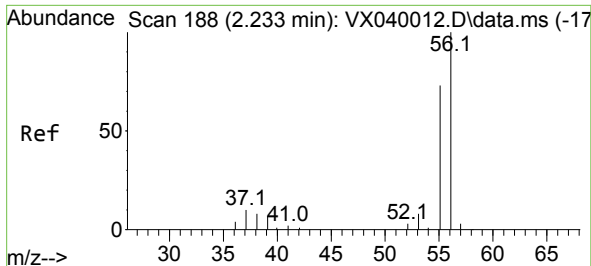
Tgt Ion:168 Resp: 47974  
Ion Ratio Lower Upper  
168 100  
99 71.0 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 3.862 ug/l  
RT: 2.971 min Scan# 309  
Delta R.T. 0.012 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 59 Resp: 541  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.447 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

Instrument :

MSVOA\_X

ClientSampleId :

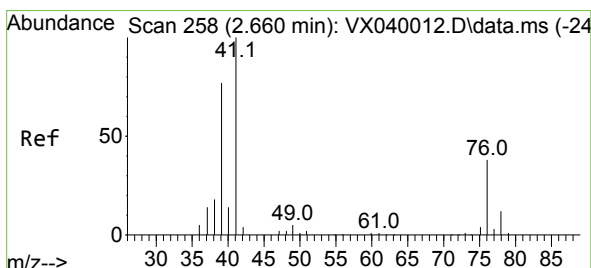
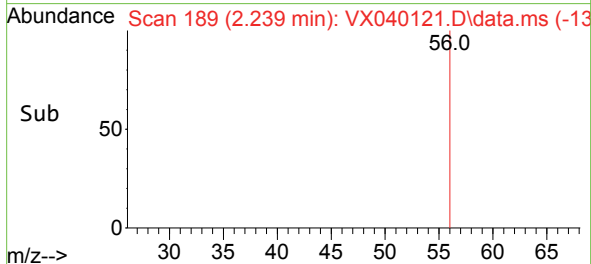
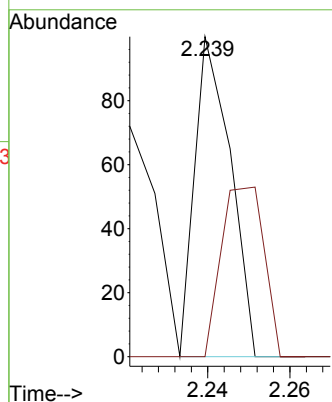
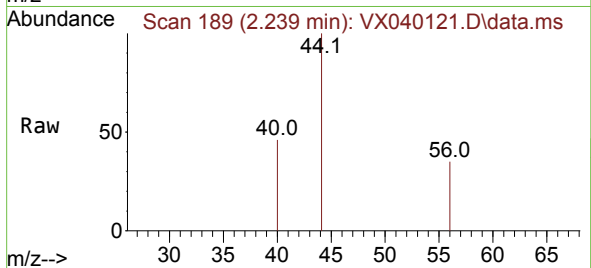
TP-1

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 63.3 57.1 85.7



#14

Allyl chloride

Concen: 0.292 ug/l

RT: 2.642 min Scan# 255

Delta R.T. -0.018 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

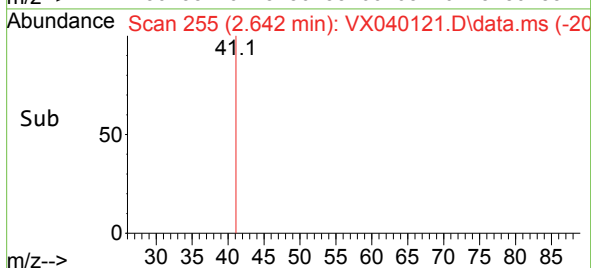
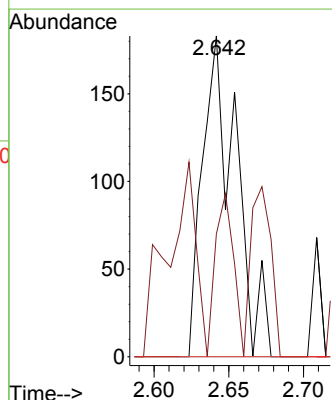
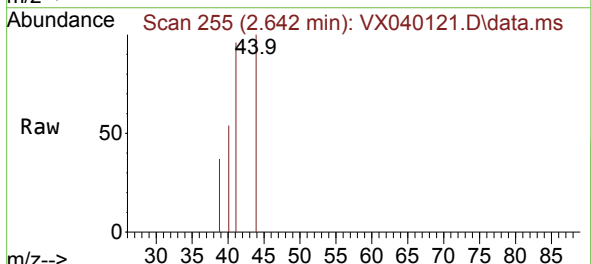
Tgt Ion: 41 Resp: 284

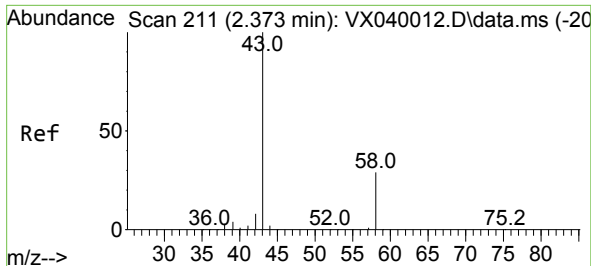
Ion Ratio Lower Upper

41 100

39 27.8 55.8 83.6#

76 0.0 24.3 36.5#

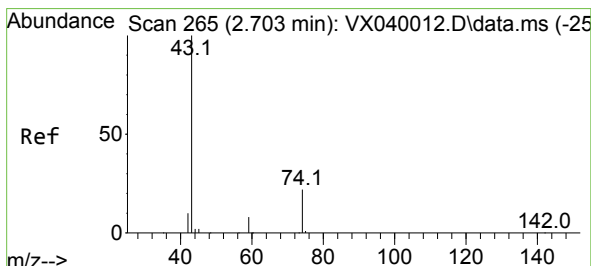
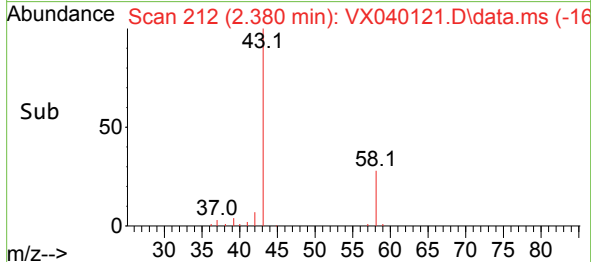
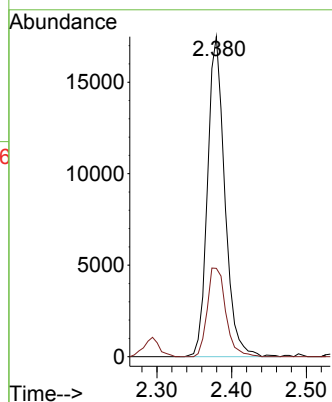
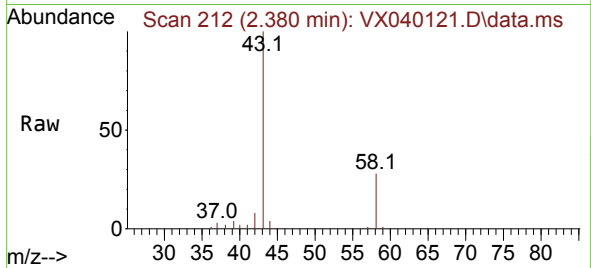




#16  
Acetone  
Concen: 77.522 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

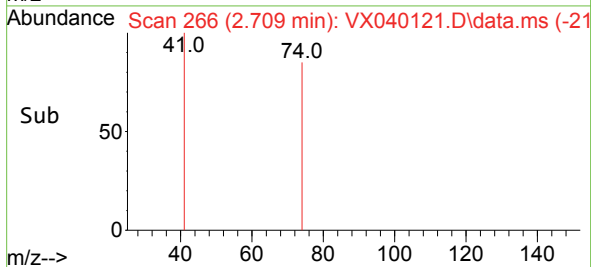
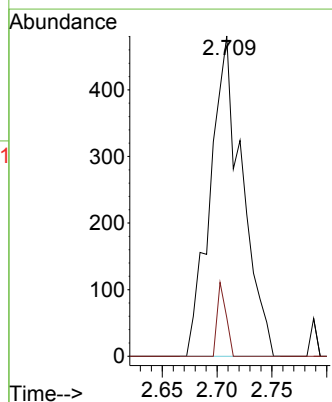
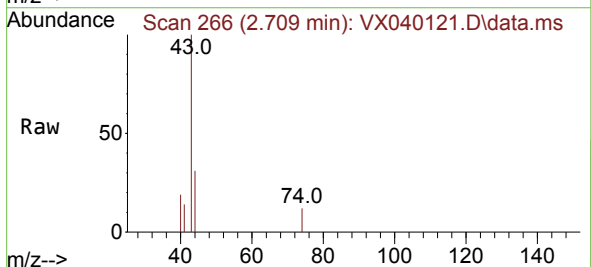
Instrument :  
MSVOA\_X  
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TP-1

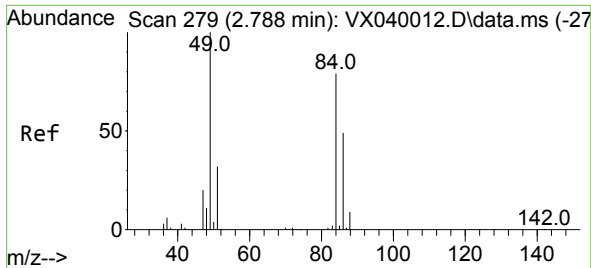
Tgt Ion: 43 Resp: 28044  
Ion Ratio Lower Upper  
43 100  
58 27.6 21.9 32.9



#18  
Methyl Acetate  
Concen: 1.132 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 43 Resp: 970  
Ion Ratio Lower Upper  
43 100  
74 6.4 17.8 26.8#

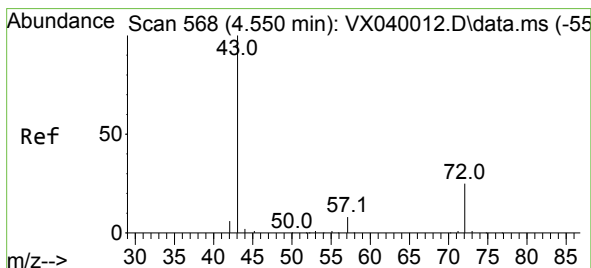
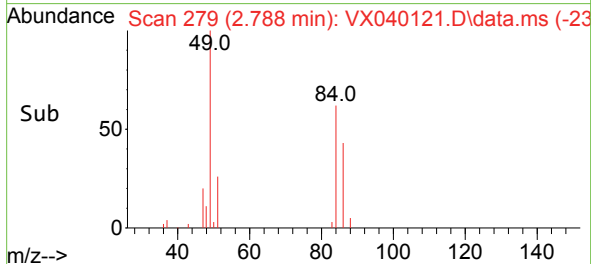
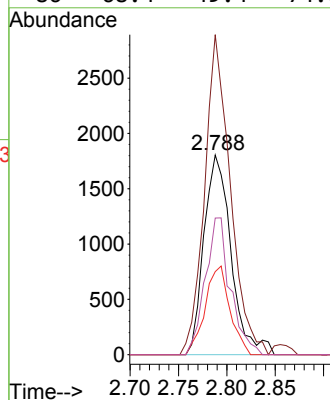
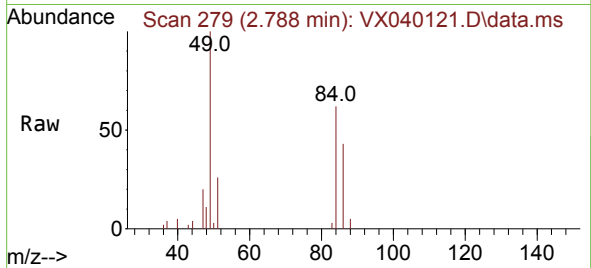




#20  
Methylene Chloride  
Concen: 5.483 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

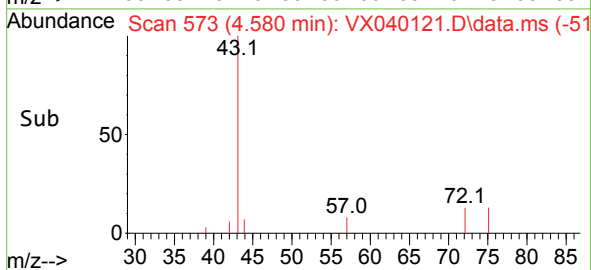
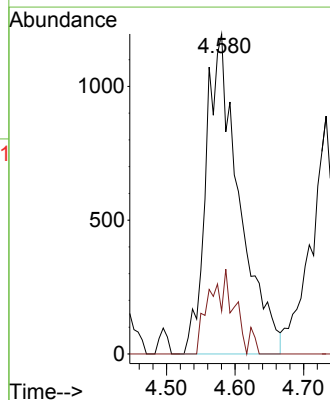
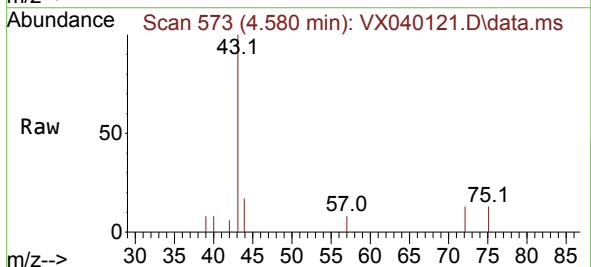
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

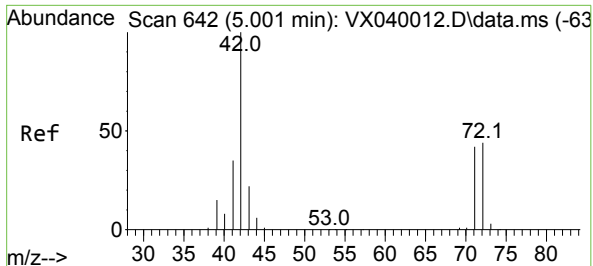
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 3525   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 160.3 | 103.6 | 155.4# |
| 51       | 41.6  | 33.8  | 50.6   |
| 86       | 68.4  | 49.4  | 74.0   |



#25  
2-Butanone  
Concen: 7.978 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.030 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4012  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 13.4  | 19.4  | 29.2# |





#29

Tetrahydrofuran

Concen: 0.347 ug/l

RT: 5.038 min Scan# 642

Delta R.T. 0.037 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

Instrument :

MSVOA\_X

ClientSampleId :

TP-1

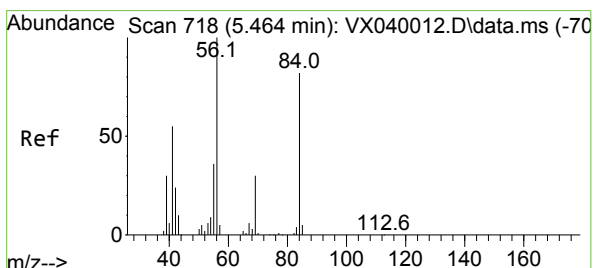
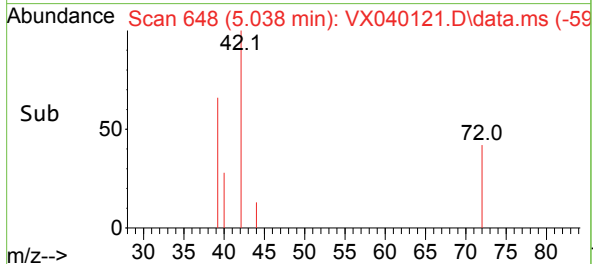
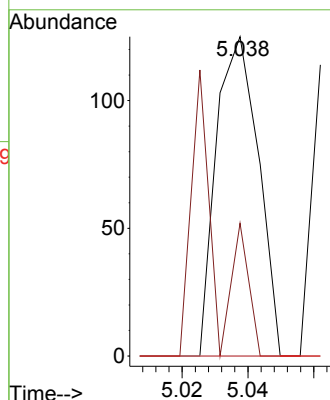
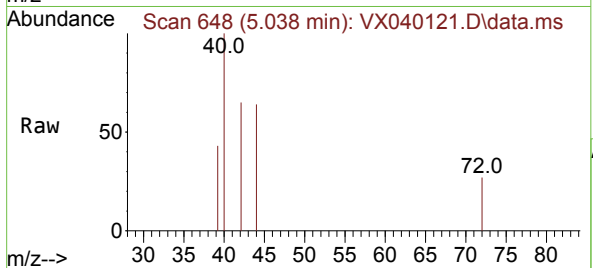
Tgt Ion: 42 Resp: 111

Ion Ratio Lower Upper

42 100

72 54.1 34.2 51.4#

71 0.0 32.2 48.2#



#31

Cyclohexane

Concen: 1.741 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

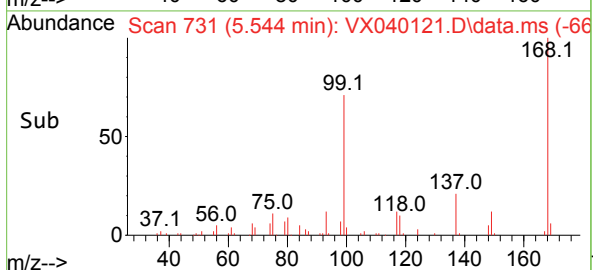
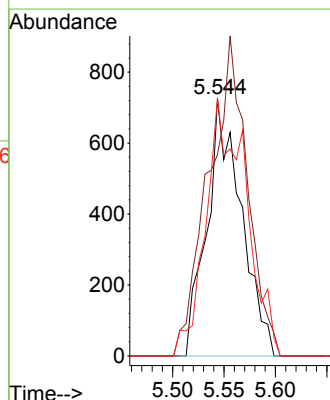
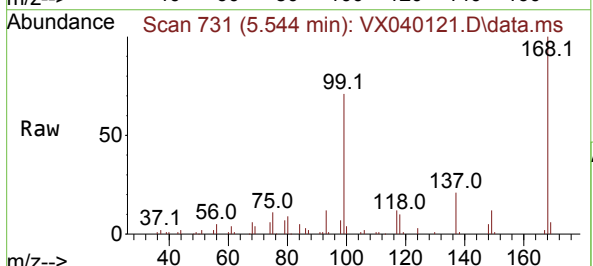
Tgt Ion: 56 Resp: 1684

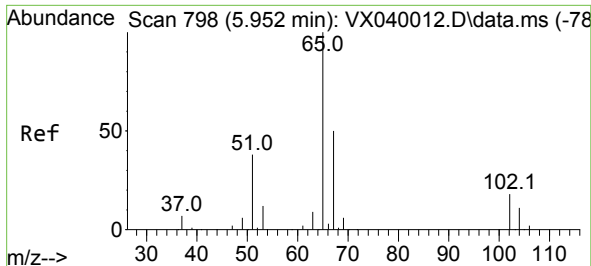
Ion Ratio Lower Upper

56 100

69 78.3 23.4 35.2#

84 100.4 65.9 98.9#

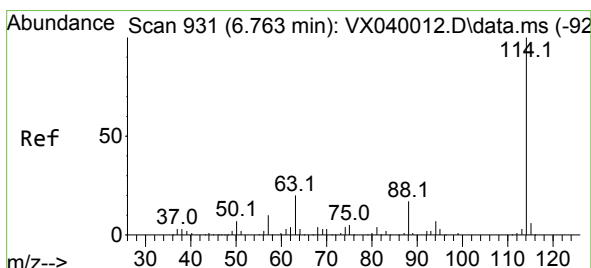
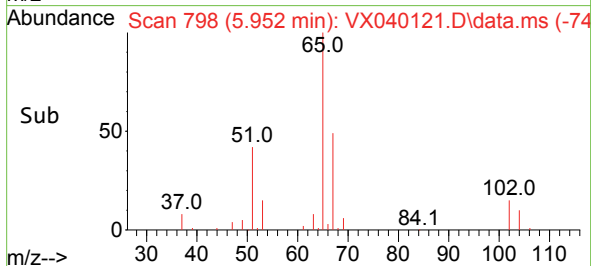
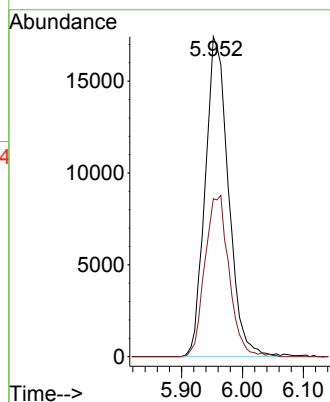
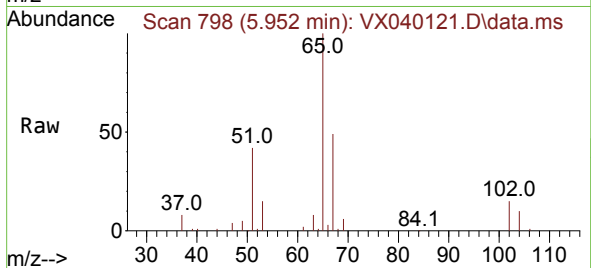




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.959 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. -0.000 min  
 Lab File: VX040121.D  
 Acq: 05 Feb 2024 17:12

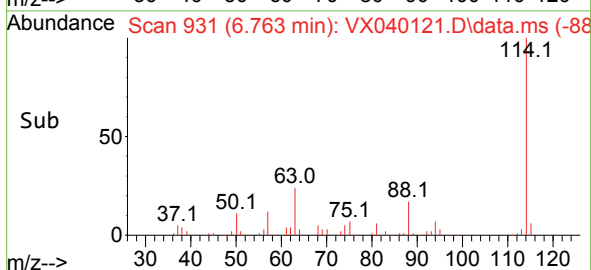
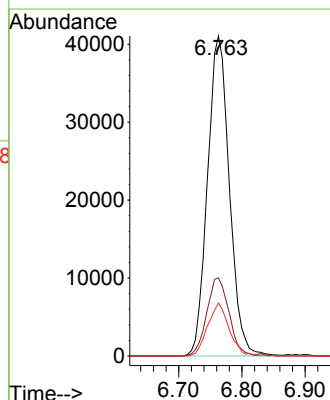
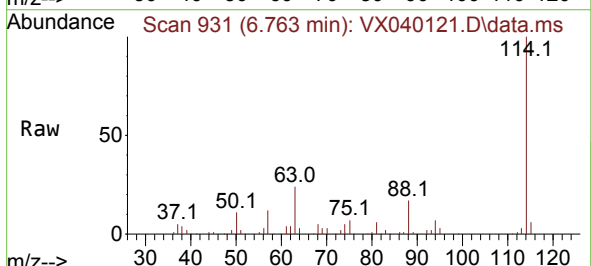
Instrument :  
 MSVOA\_X  
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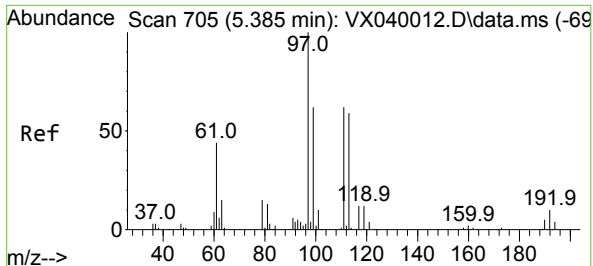
Tgt Ion: 65 Resp: 46293  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX040121.D  
 Acq: 05 Feb 2024 17:12

Tgt Ion: 114 Resp: 98923  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 45.0  
 88 16.6 0.0 36.6





#35

Dibromofluoromethane

Concen: 47.627 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX040121.D

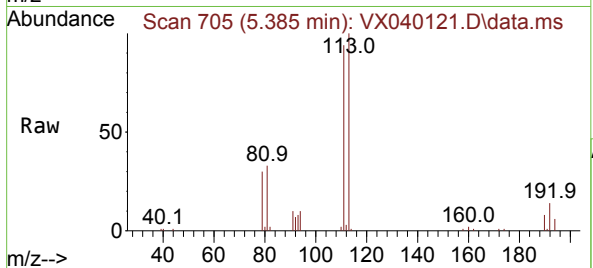
Acq: 05 Feb 2024 17:12

Instrument :

MSVOA\_X

ClientSampleId :

TP-1



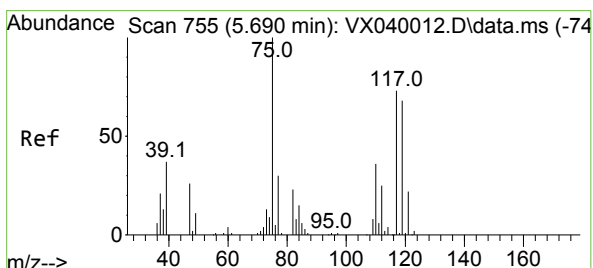
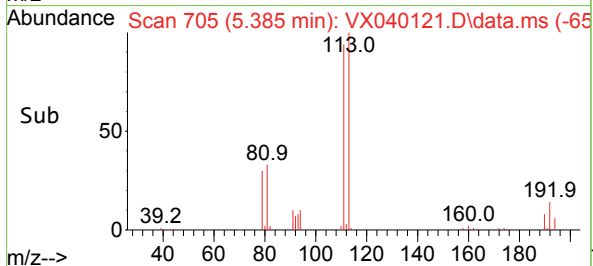
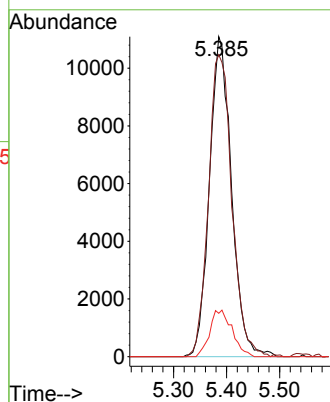
Tgt Ion:113 Resp: 32072

Ion Ratio Lower Upper

113 100

111 100.0 82.9 124.3

192 14.7 13.3 19.9



#36

1,1-Dichloropropene

Concen: 5.256 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.134 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

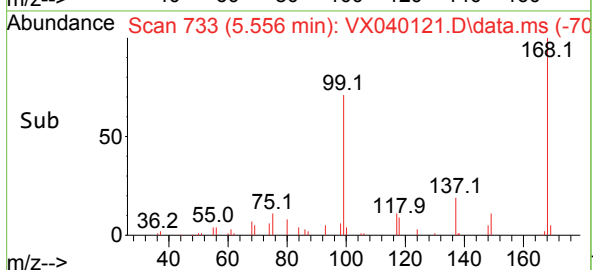
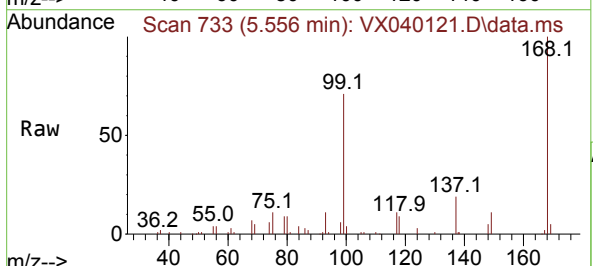
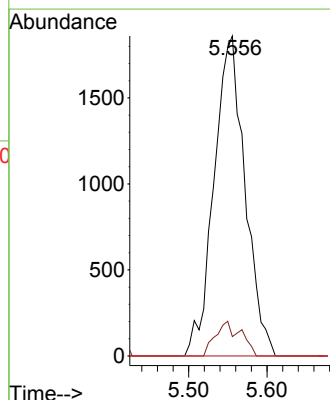
Tgt Ion: 75 Resp: 5119

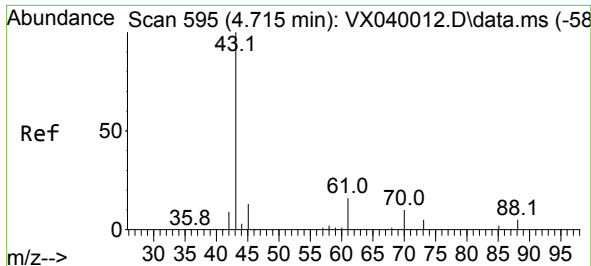
Ion Ratio Lower Upper

75 100

110 8.8 17.0 50.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.699 ug/l

RT: 4.733 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

Instrument :

MSVOA\_X

ClientSampleId :

TP-1

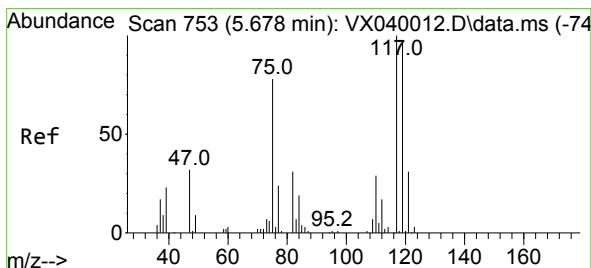
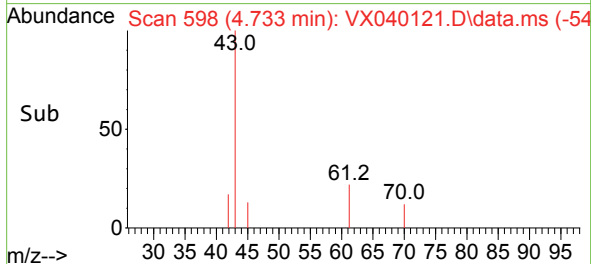
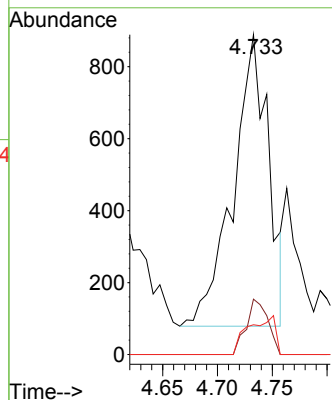
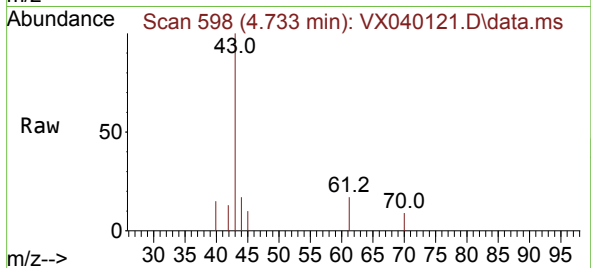
Tgt Ion: 43 Resp: 1807

Ion Ratio Lower Upper

43 100

61 11.6 10.6 16.0

70 10.1 8.3 12.5



#38

Carbon Tetrachloride

Concen: 6.193 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

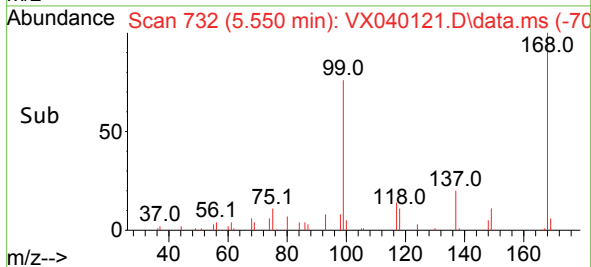
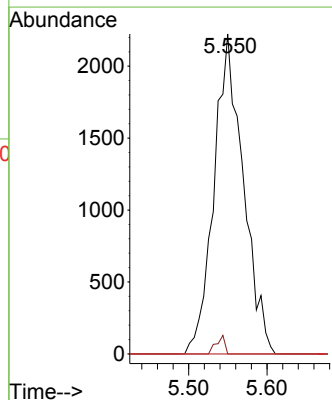
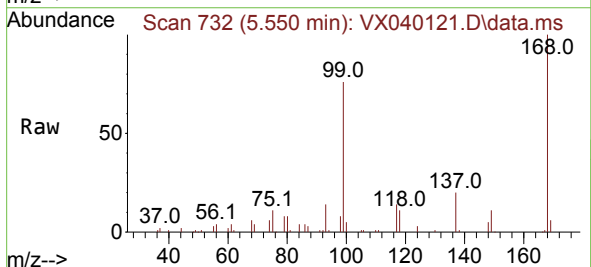
Tgt Ion: 117 Resp: 5771

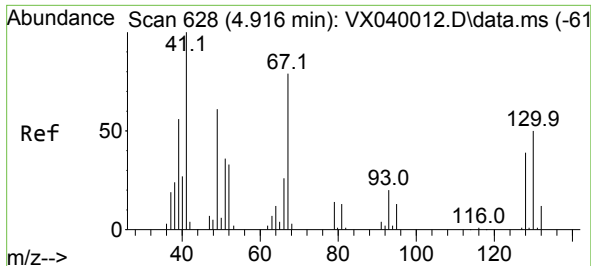
Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

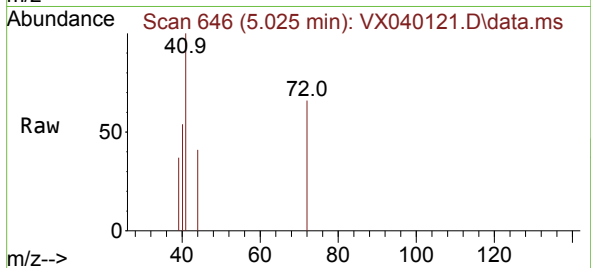
121 0.0 24.4 36.6#



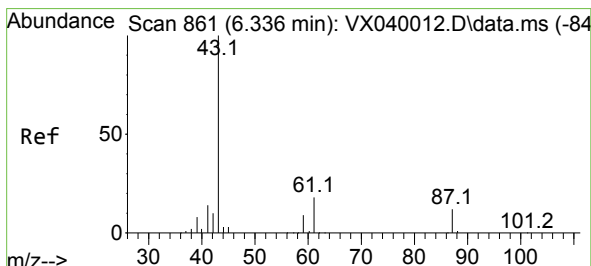
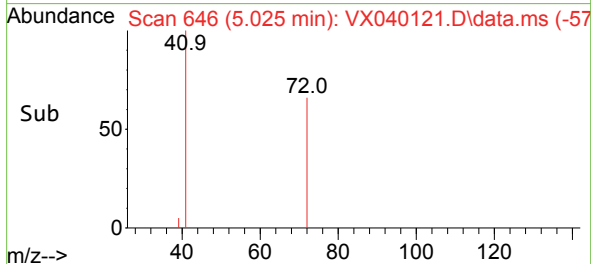
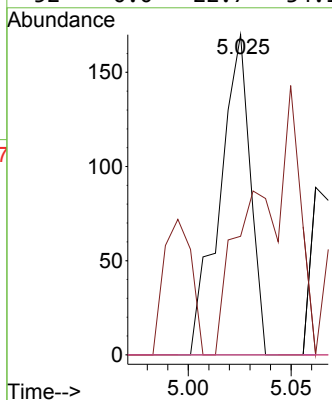


#41  
Methacrylonitrile  
Concen: 0.326 ug/l  
RT: 5.025 min Scan# 646  
Delta R.T. 0.110 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

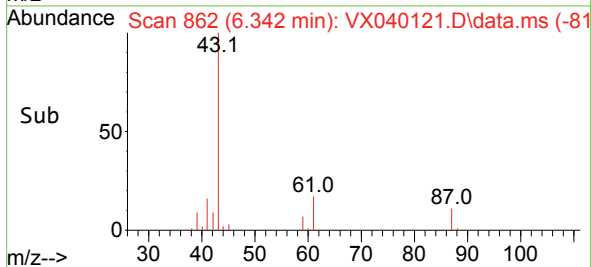
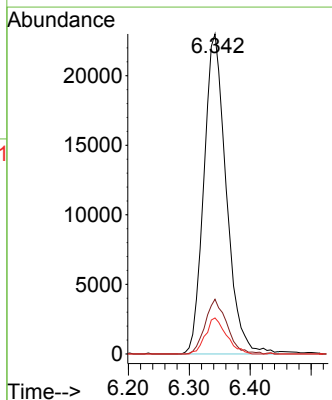
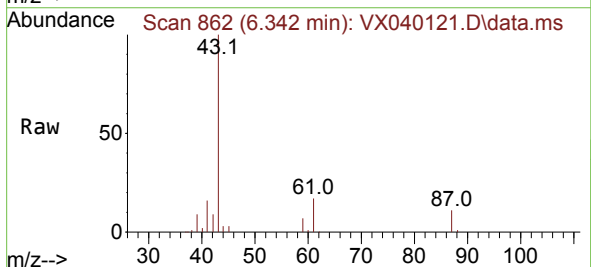


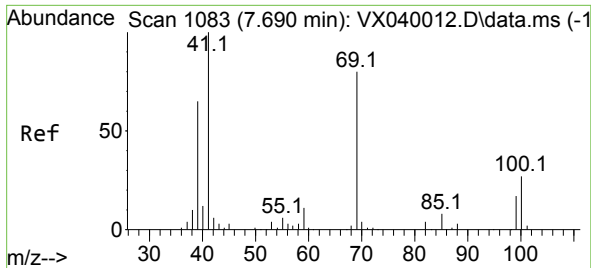
Tgt Ion: 41 Resp: 176  
Ion Ratio Lower Upper  
41 100  
39 0.0 45.2 67.8#  
67 0.0 52.6 78.8#  
52 0.0 22.7 34.1#



#43  
Isopropyl Acetate  
Concen: 34.994 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 43 Resp: 58696  
Ion Ratio Lower Upper  
43 100  
61 16.7 15.2 22.8  
87 10.5 9.8 14.6

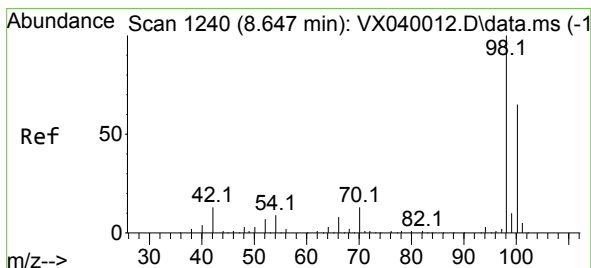
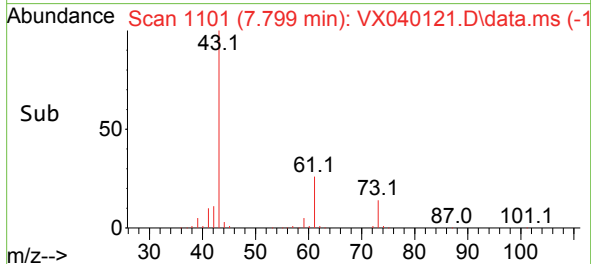
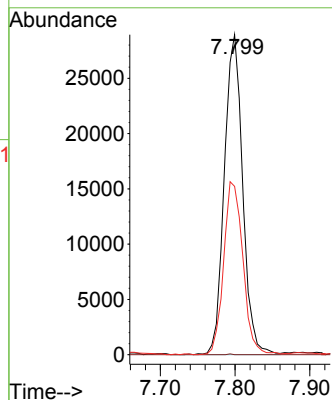
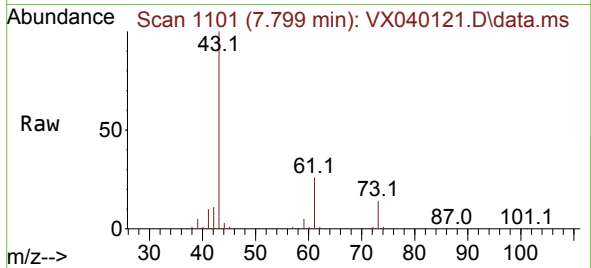




#48  
Methyl methacrylate  
Concen: 59.820 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

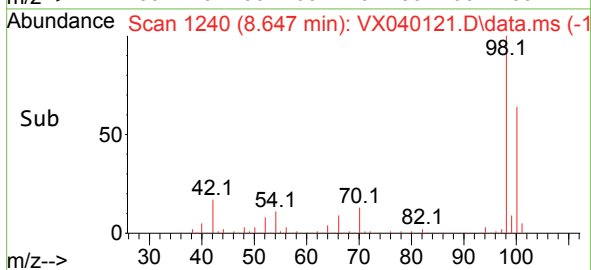
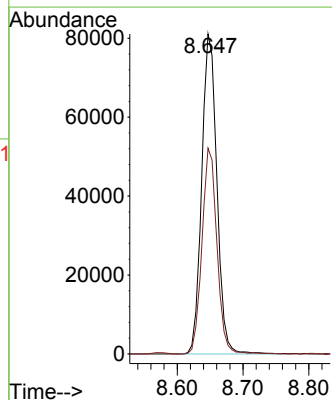
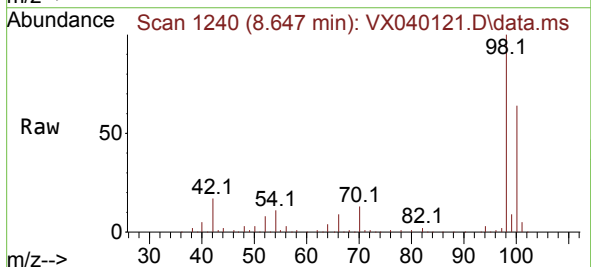
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

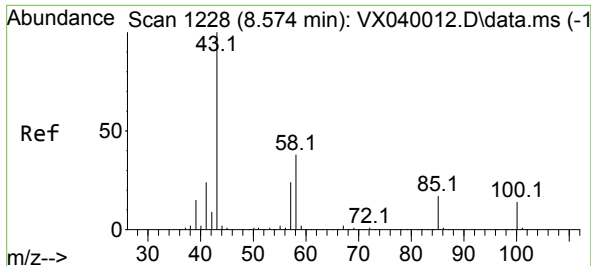
Tgt Ion: 41 Resp: 49426  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 56.8 47.7 71.5



#50  
Toluene-d8  
Concen: 51.478 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 98 Resp: 129640  
Ion Ratio Lower Upper  
98 100  
100 63.6 53.1 79.7

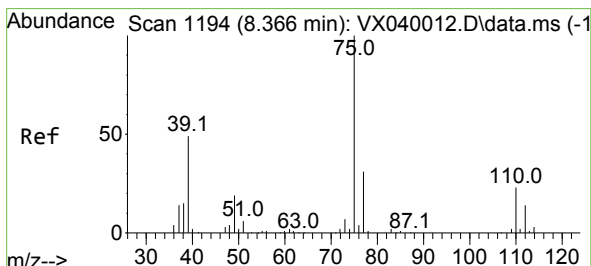
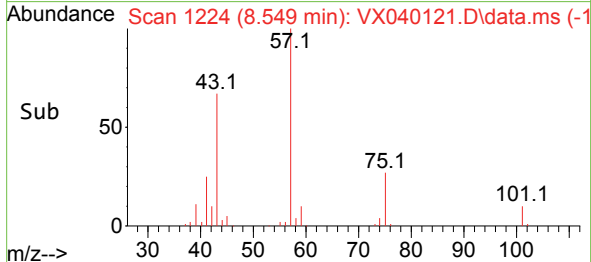
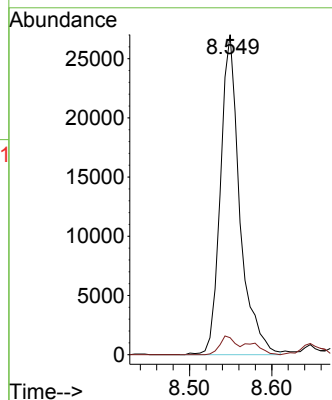
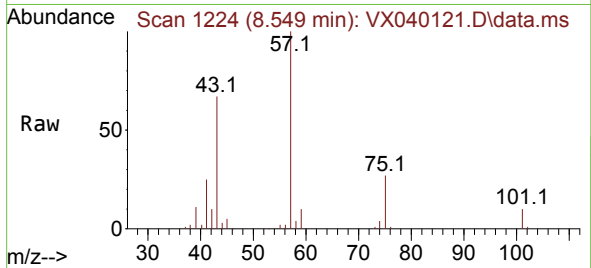




#51  
4-Methyl-2-Pentanone  
Concen: 38.677 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

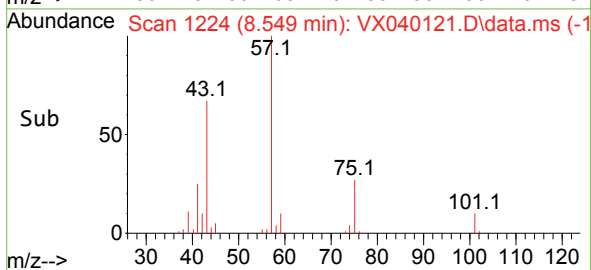
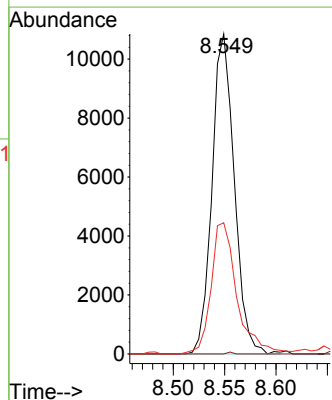
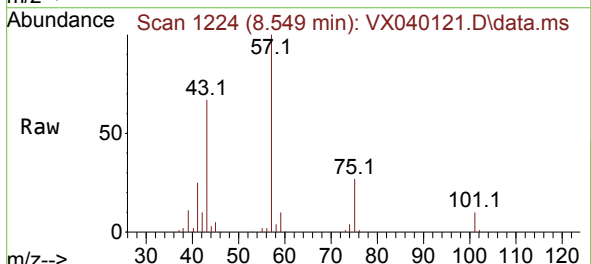
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

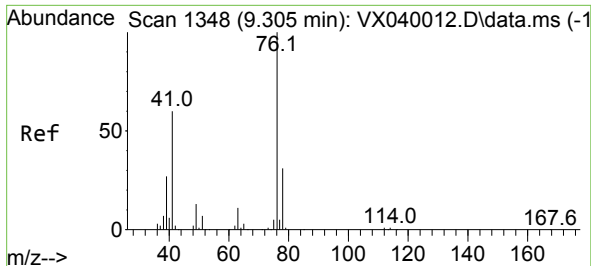
Tgt Ion: 43 Resp: 44284  
Ion Ratio Lower Upper  
43 100  
58 4.8 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 14.737 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 75 Resp: 16329  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.3 37.9#  
39 41.0 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.550 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

Instrument :

MSVOA\_X

ClientSampleId :

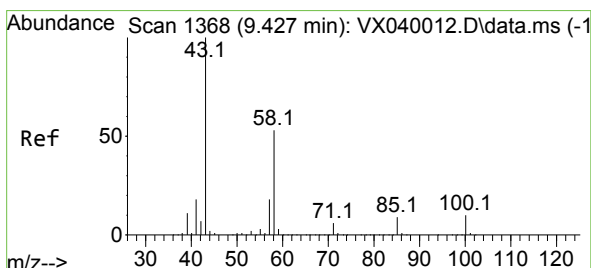
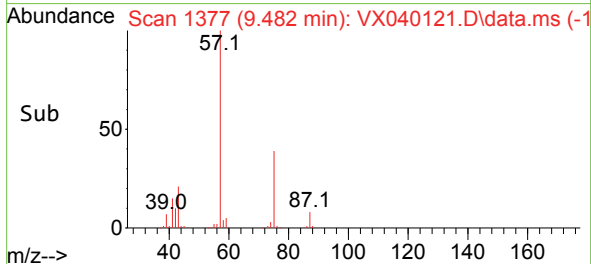
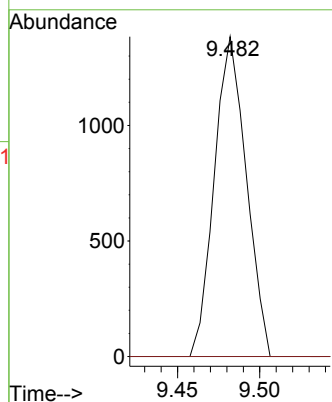
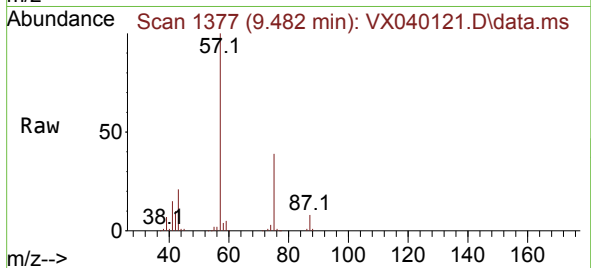
TP-1

Tgt Ion: 76 Resp: 1869

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 55.662 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX040121.D

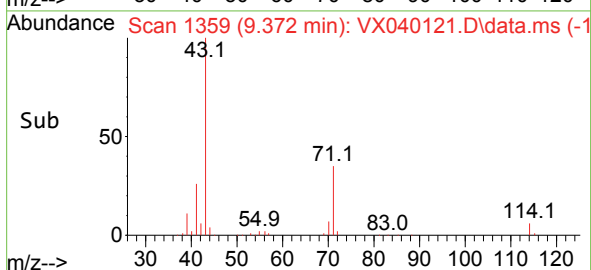
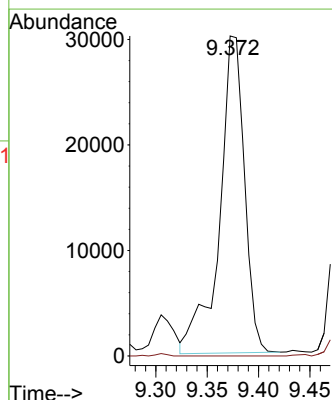
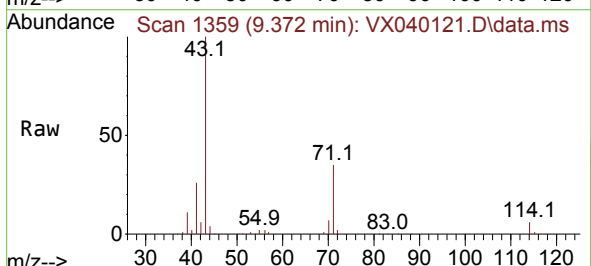
Acq: 05 Feb 2024 17:12

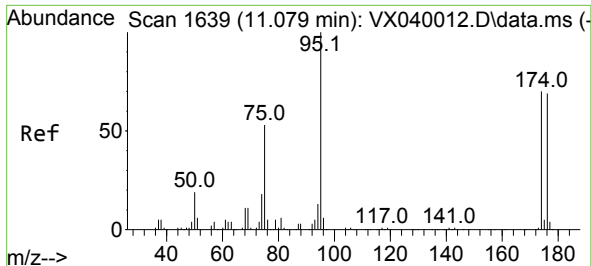
Tgt Ion: 43 Resp: 50814

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

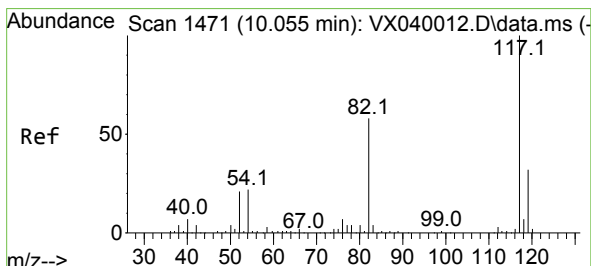
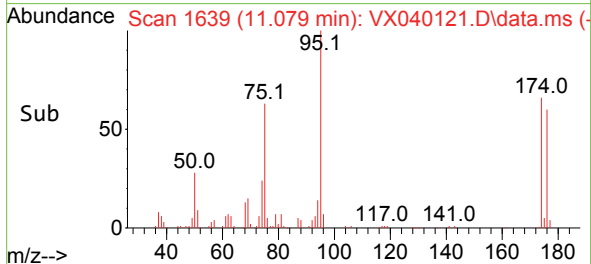
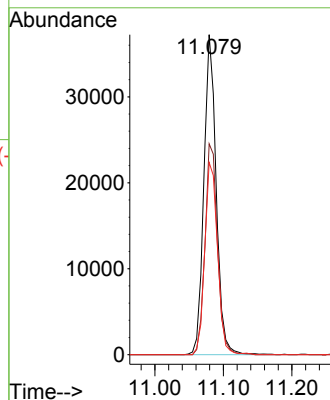
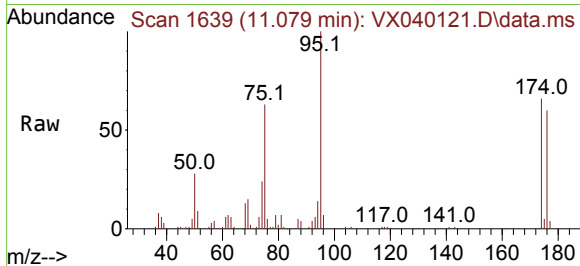




#62  
4-Bromofluorobenzene  
Concen: 48.130 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

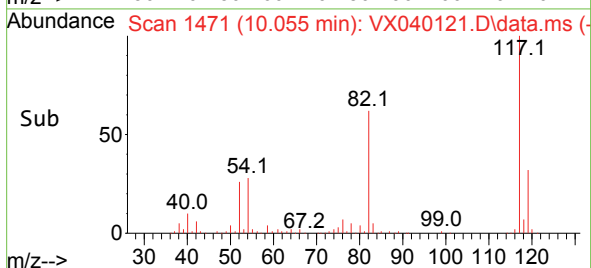
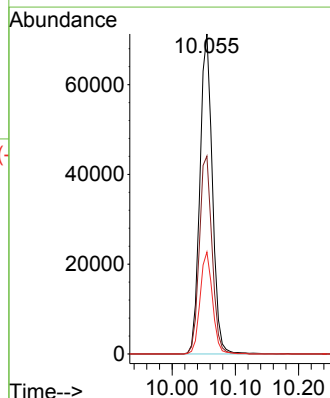
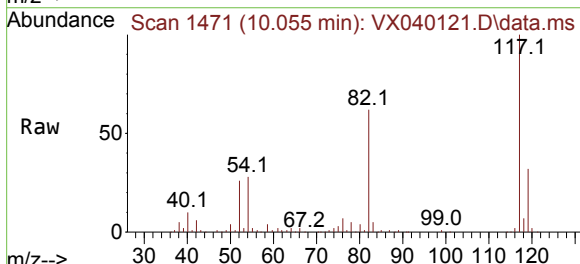
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

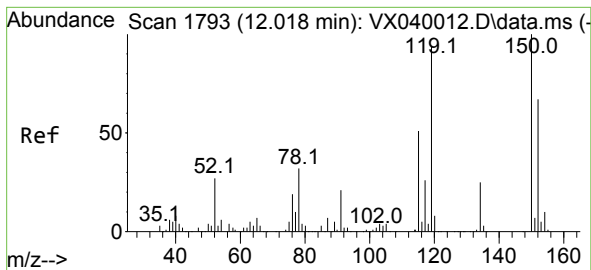
Tgt Ion: 95 Resp: 46671  
Ion Ratio Lower Upper  
95 100  
174 66.7 0.0 135.6  
176 62.3 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 117 Resp: 97853  
Ion Ratio Lower Upper  
117 100  
82 61.8 46.2 69.4  
119 31.8 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

Instrument :

MSVOA\_X

ClientSampleId :

TP-1

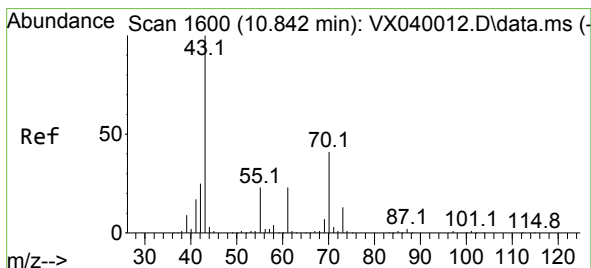
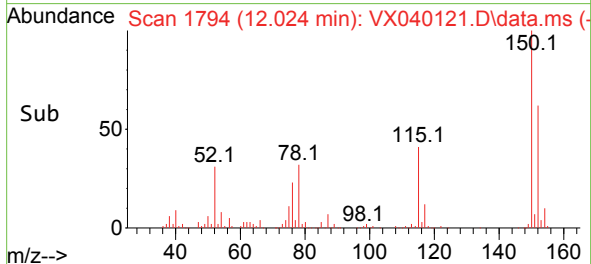
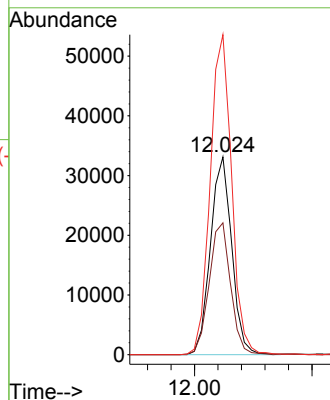
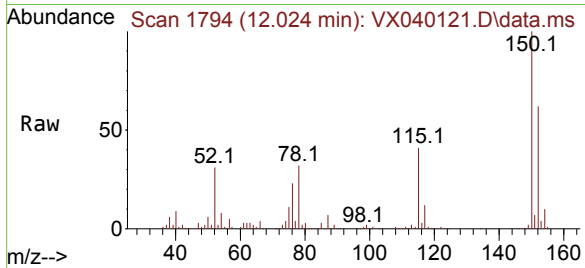
Tgt Ion:152 Resp: 41633

Ion Ratio Lower Upper

152 100

115 67.1 43.3 129.9

150 162.8 0.0 345.0



#74

N-ethyl acetate

Concen: 0.528 ug/l

RT: 10.811 min Scan# 1595

Delta R.T. -0.031 min

Lab File: VX040121.D

Acq: 05 Feb 2024 17:12

Tgt Ion: 43 Resp: 447

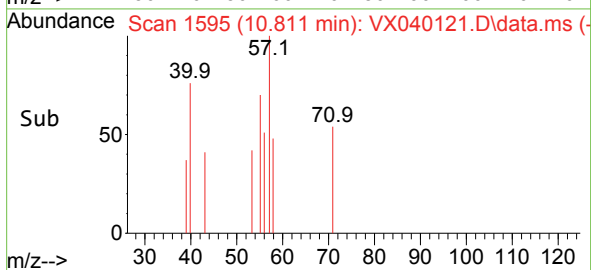
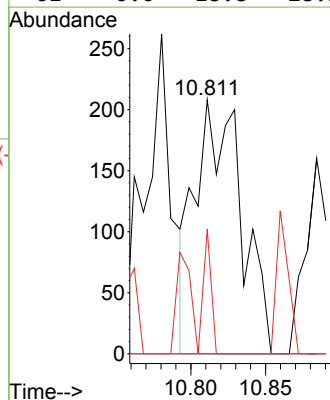
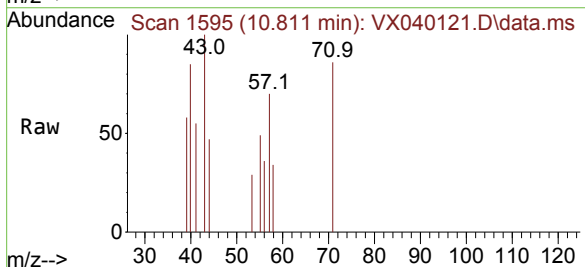
Ion Ratio Lower Upper

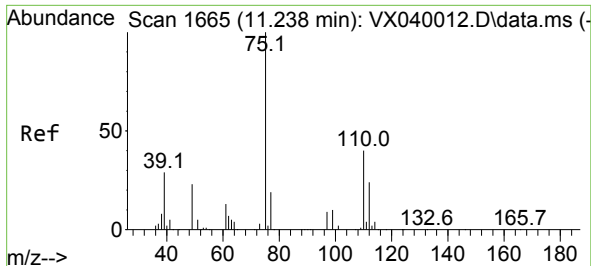
43 100

70 0.0 32.9 49.3#

55 0.0 19.3 28.9#

61 0.0 18.8 28.2#

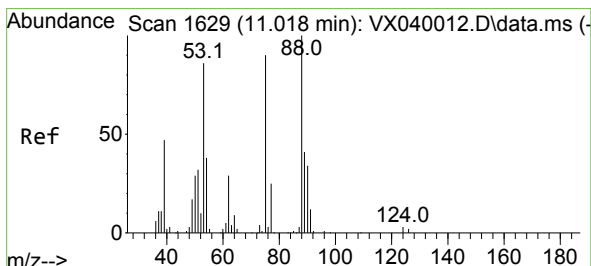
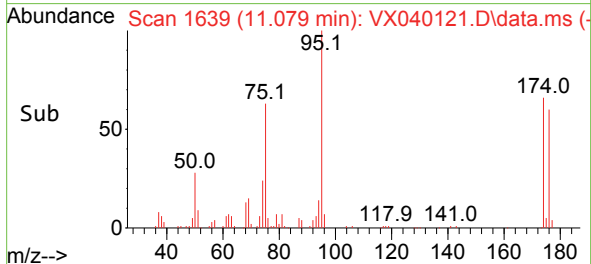
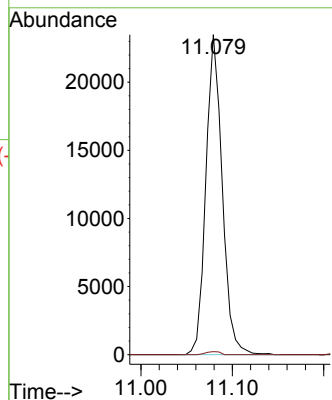
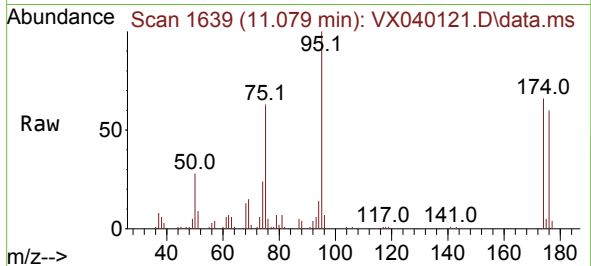




#76  
1,2,3-Trichloropropane  
Concen: 32.784 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-1

Tgt Ion: 75 Resp: 29066  
Ion Ratio Lower Upper  
75 100  
77 0.8 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.487 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX040121.D  
Acq: 05 Feb 2024 17:12

Tgt Ion: 75 Resp: 29066  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

