

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112123\  
 Data File : VX038988.D  
 Acq On : 21 Nov 2023 16:35  
 Operator : JC/MD  
 Sample : 05407-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FB-01-20231114

Quant Time: Nov 22 03:22:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

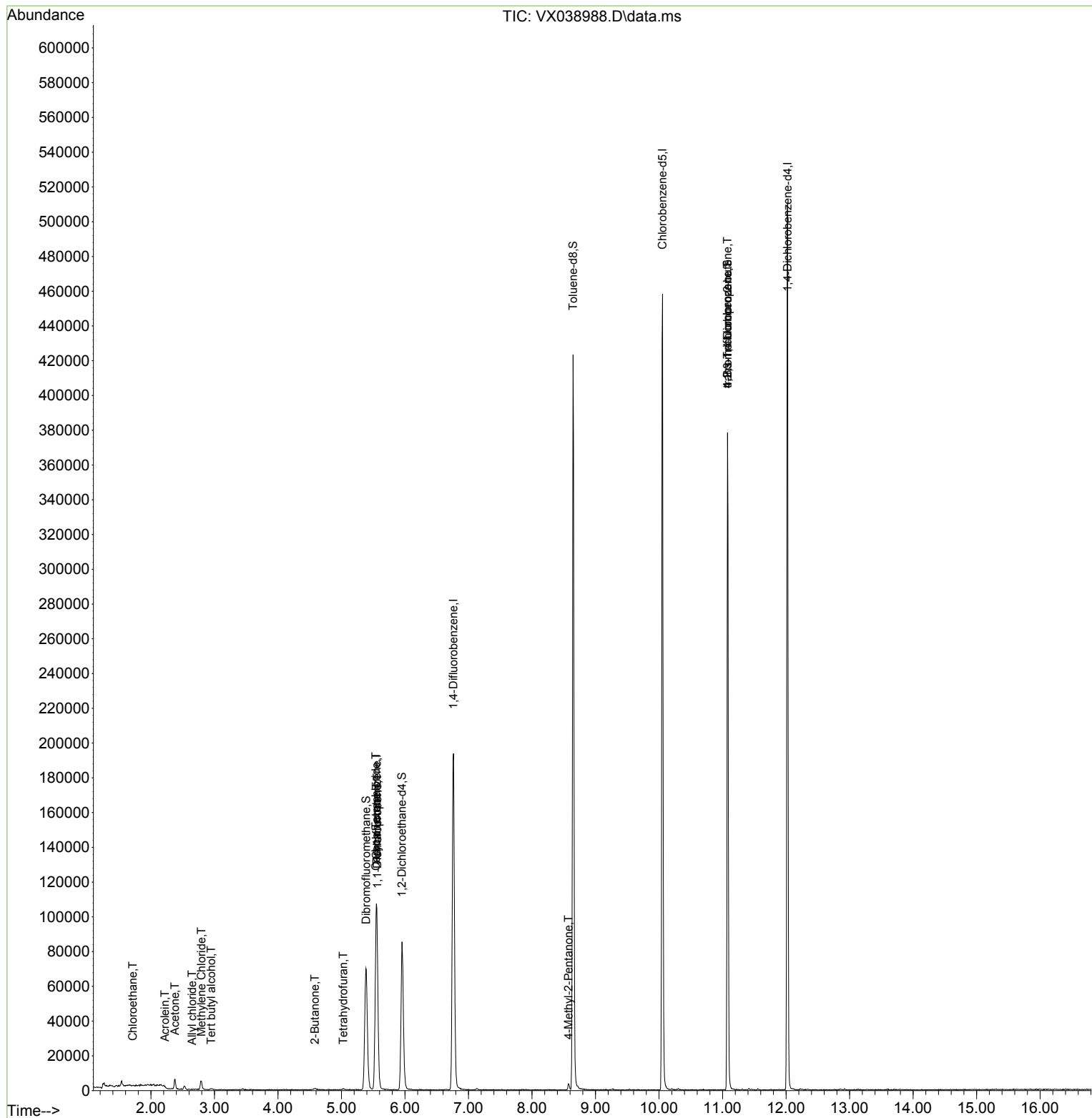
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 95011    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 195500   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 199341   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 100572   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 78239    | 51.105   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 102.200% |
| 35) Dibromofluoromethane      | 5.385  | 113   | 61593    | 43.623   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 87.240%  |
| 50) Toluene-d8                | 8.647  | 98    | 248274   | 45.958   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 91.920%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 107070   | 49.511   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 99.020%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.715  | 64    | 236      | 0.297    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 852      | 2.001    | ug/l # | 78       |
| 13) Acrolein                  | 2.221  | 56    | 72       | 0.320    | ug/l # | 1        |
| 14) Allyl chloride            | 2.648  | 41    | 600      | 0.253    | ug/l # | 24       |
| 16) Acetone                   | 2.380  | 43    | 6452     | 7.917    | ug/l   | 100      |
| 20) Methylene Chloride        | 2.794  | 84    | 2524     | 1.718    | ug/l   | 85       |
| 25) 2-Butanone                | 4.580  | 43    | 654      | 0.495    | ug/l   | 97       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 568      | 0.677    | ug/l # | 56       |
| 31) Cyclohexane               | 5.550  | 56    | 2656     | 1.215    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 8934     | 4.415    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 10759    | 5.753    | ug/l # | 14       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43    | 2388     | 0.887    | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 57498    | 22.914   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 57498    | 50.826   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

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

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MSVOA\_X  
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FB-01-20231114

Quant Time: Nov 22 03:22:21 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 2023  
Response via : Initial Calibration

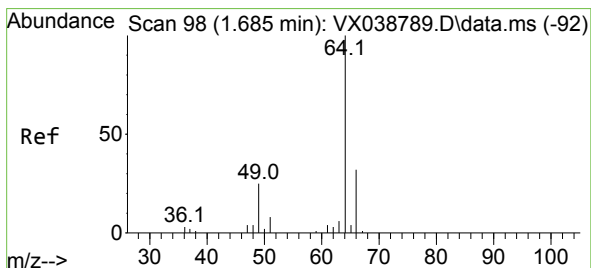
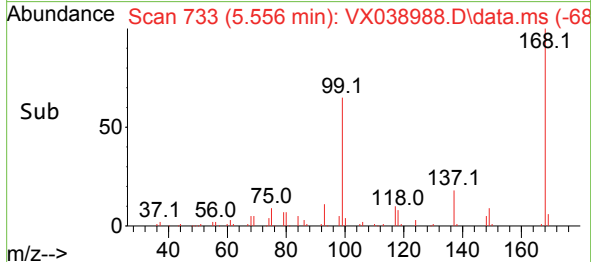
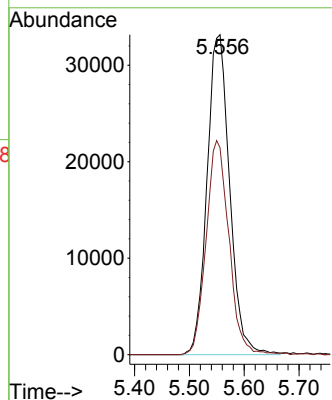
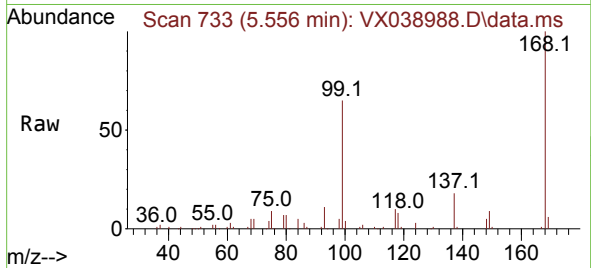




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

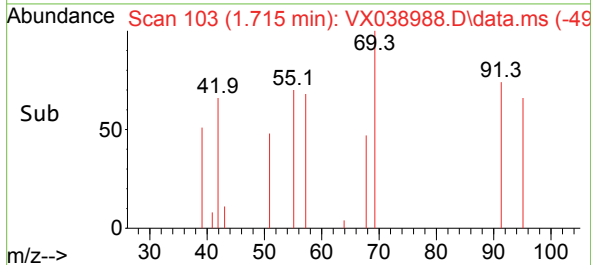
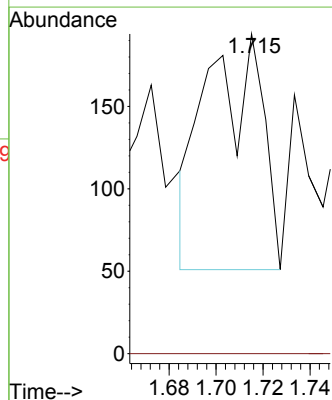
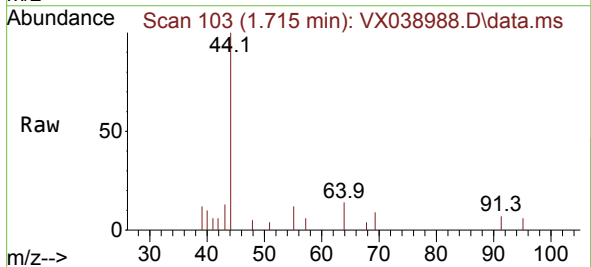
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB-01-20231114

Tgt Ion:168 Resp: 95011  
Ion Ratio Lower Upper  
168 100  
99 64.7 56.6 85.0



#6  
Chloroethane  
Concen: 0.297 ug/l  
RT: 1.715 min Scan# 103  
Delta R.T. 0.030 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

Tgt Ion: 64 Resp: 236  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 2.001 ug/l

RT: 2.947 min Scan# 306

Delta R.T. -0.006 min

Lab File: VX038988.D

Acq: 21 Nov 2023 16:35

Instrument :

MSVOA\_X

ClientSampleId :

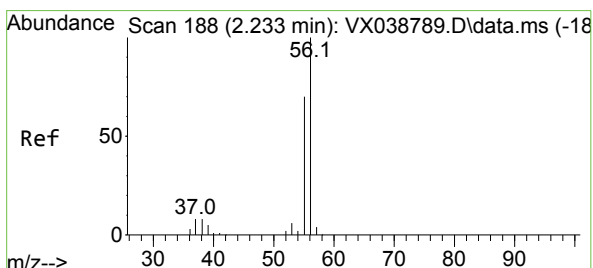
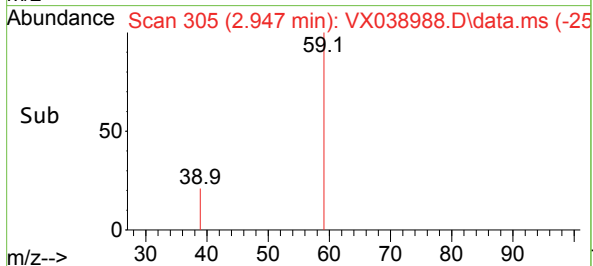
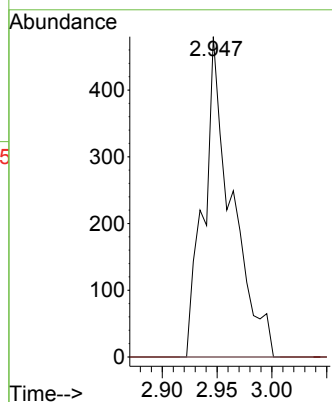
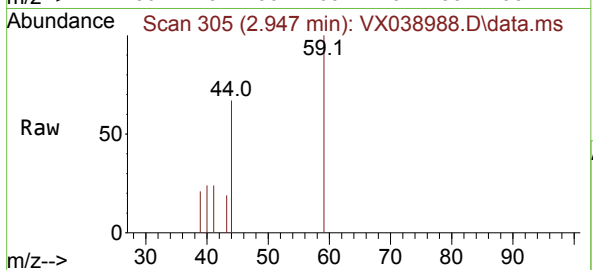
FB-01-20231114

Tgt Ion: 59 Resp: 852

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.320 ug/l

RT: 2.221 min Scan# 186

Delta R.T. -0.012 min

Lab File: VX038988.D

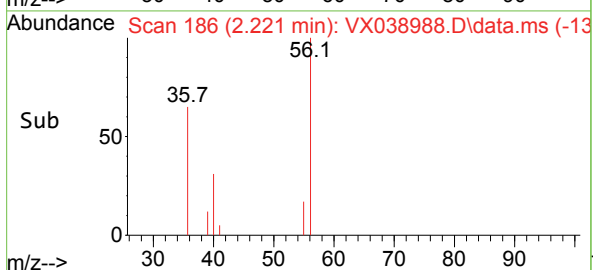
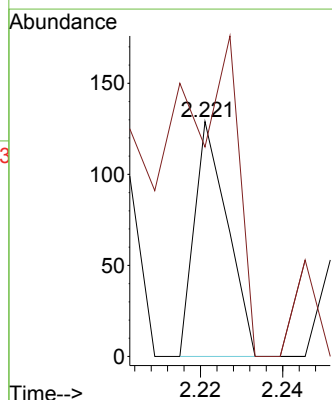
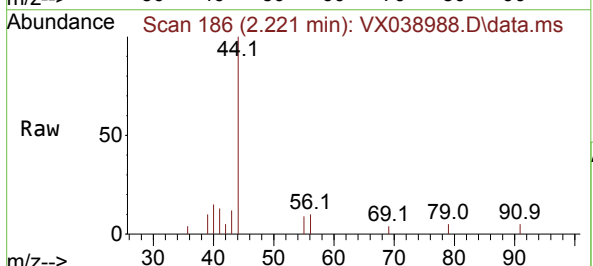
Acq: 21 Nov 2023 16:35

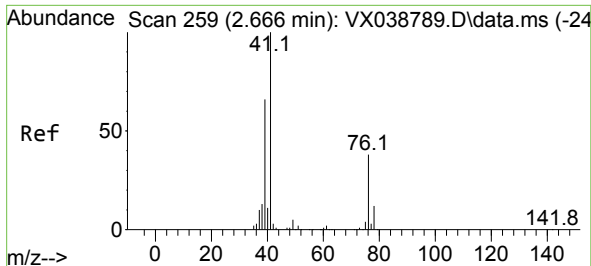
Tgt Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

55 223.6 57.1 85.7#

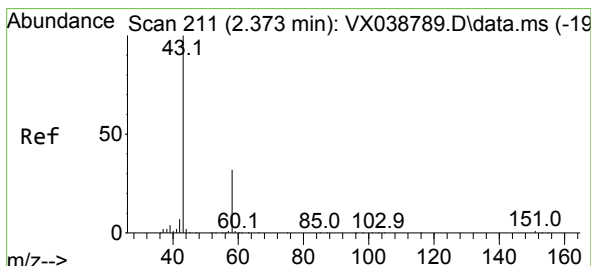
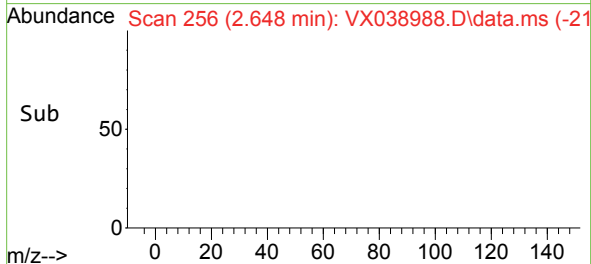
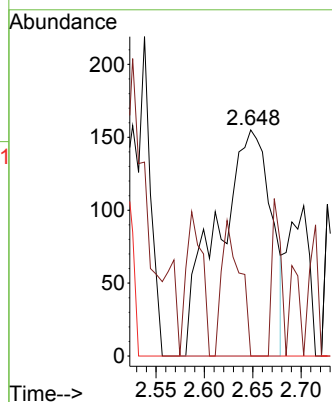
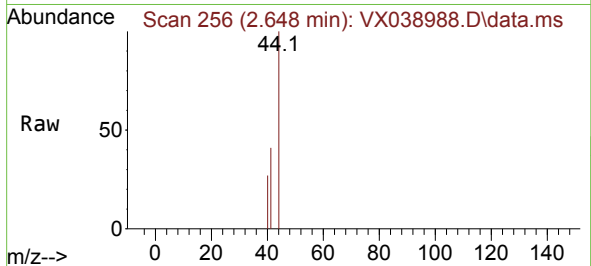




#14  
 Allyl chloride  
 Concen: 0.253 ug/l  
 RT: 2.648 min Scan# 212  
 Delta R.T. -0.018 min  
 Lab File: VX038988.D  
 Acq: 21 Nov 2023 16:35

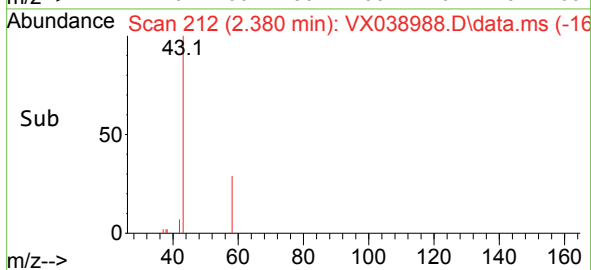
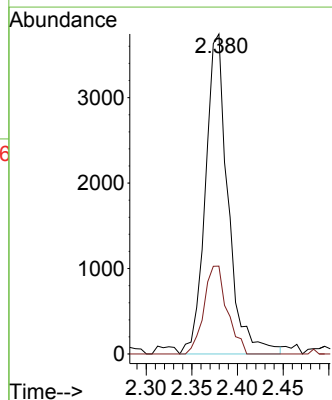
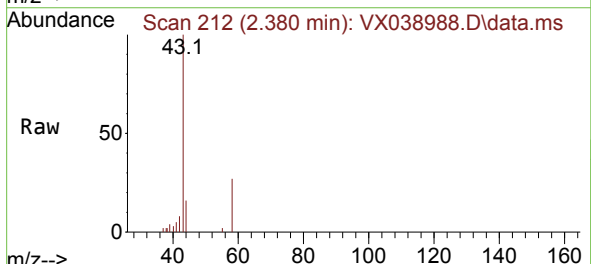
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FB-01-20231114

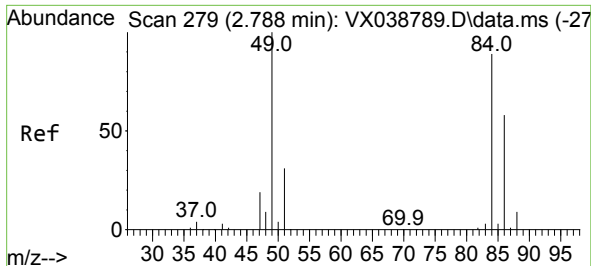
Tgt Ion: 41 Resp: 600  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 55.8 83.6#  
 76 0.0 24.3 36.5#



#16  
 Acetone  
 Concen: 7.917 ug/l  
 RT: 2.380 min Scan# 212  
 Delta R.T. 0.006 min  
 Lab File: VX038988.D  
 Acq: 21 Nov 2023 16:35

Tgt Ion: 43 Resp: 6452  
 Ion Ratio Lower Upper  
 43 100  
 58 27.5 21.9 32.9

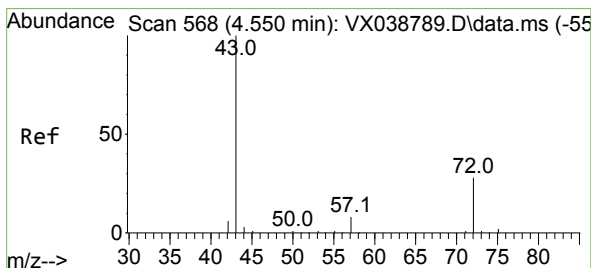
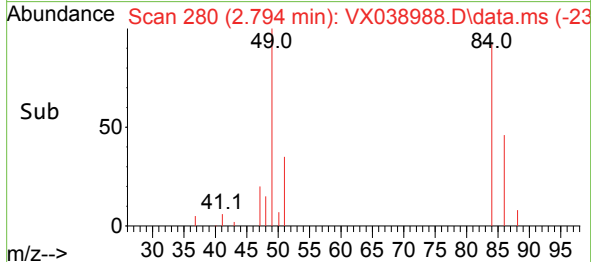
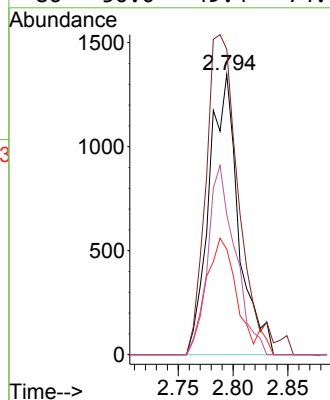
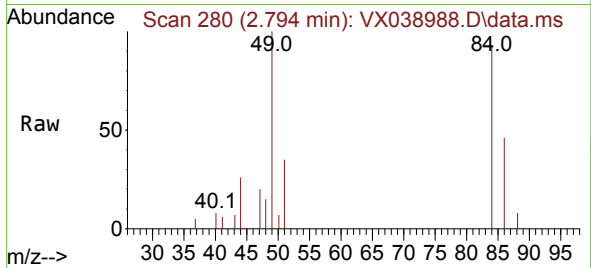




#20  
Methylene Chloride  
Concen: 1.718 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

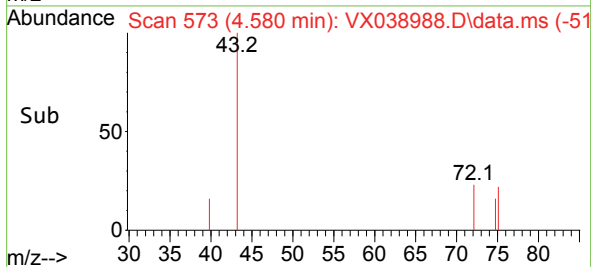
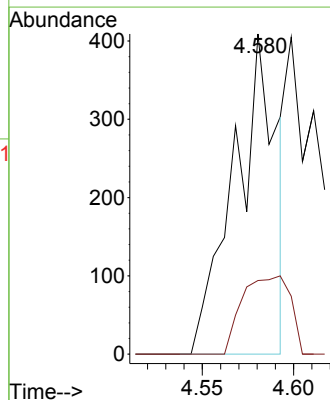
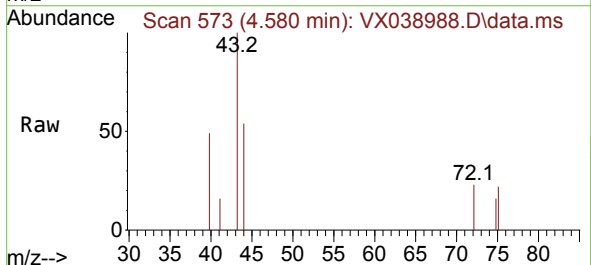
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB-01-20231114

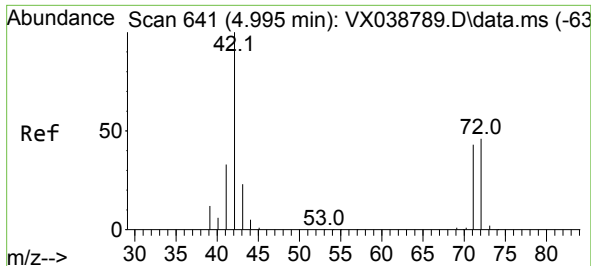
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 84 | Resp: | 2524  |       |
| Ion         | Ratio | Lower | Upper |
| 84          | 100   |       |       |
| 49          | 109.0 | 103.6 | 155.4 |
| 51          | 37.6  | 33.8  | 50.6  |
| 86          | 50.0  | 49.4  | 74.0  |



#25  
2-Butanone  
Concen: 0.495 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.031 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 43 | Resp: | 654   |       |
| Ion         | Ratio | Lower | Upper |
| 43          | 100   |       |       |
| 72          | 23.0  | 19.4  | 29.2  |





#29

Tetrahydrofuran

Concen: 0.677 ug/l

RT: 5.025 min Scan# 641

Delta R.T. 0.031 min

Lab File: VX038988.D

Acq: 21 Nov 2023 16:35

Instrument :

MSVOA\_X

ClientSampleId :

FB-01-20231114

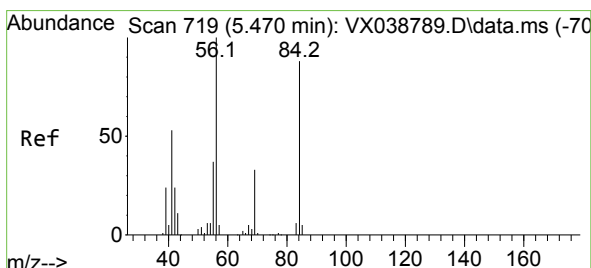
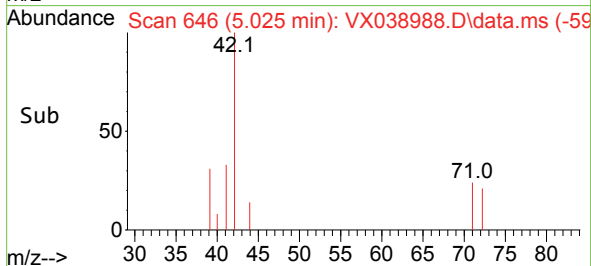
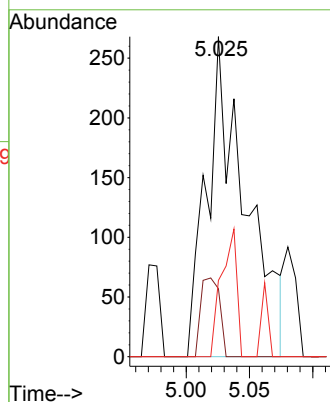
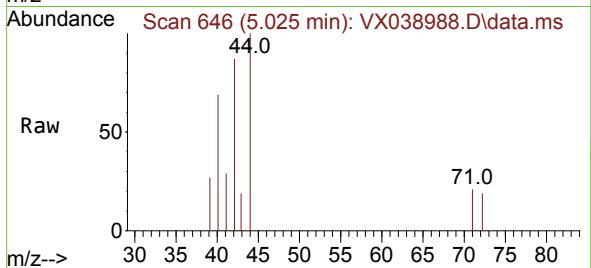
Tgt Ion: 42 Resp: 568

Ion Ratio Lower Upper

42 100

72 12.0 34.2 51.4#

71 15.8 32.2 48.2#



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX038988.D

Acq: 21 Nov 2023 16:35

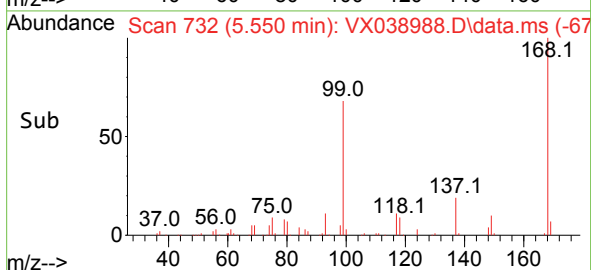
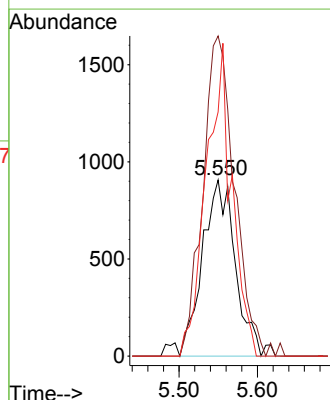
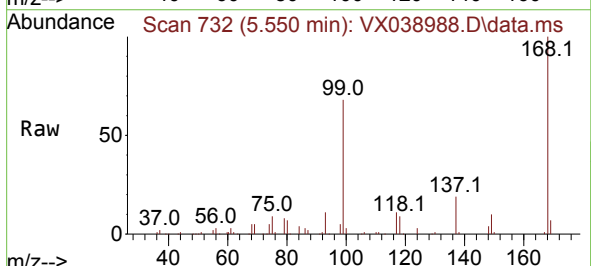
Tgt Ion: 56 Resp: 2656

Ion Ratio Lower Upper

56 100

69 181.7 23.4 35.2#

84 138.6 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 51.105 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038988.D

Acq: 21 Nov 2023 16:35

Instrument :

MSVOA\_X

ClientSampleId :

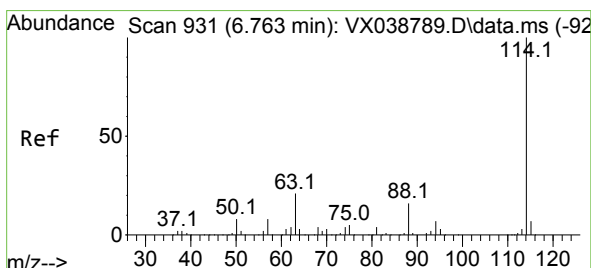
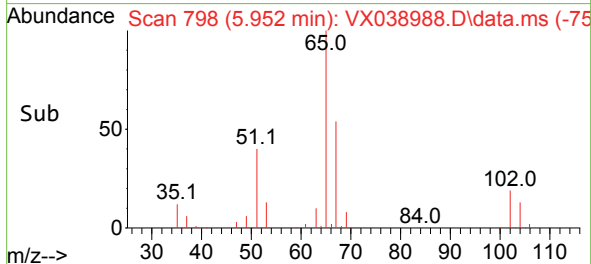
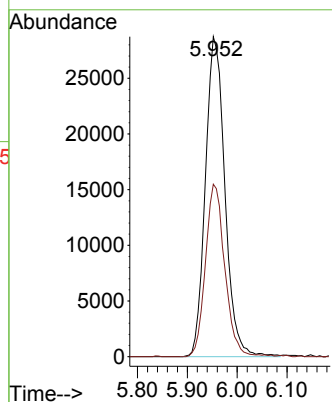
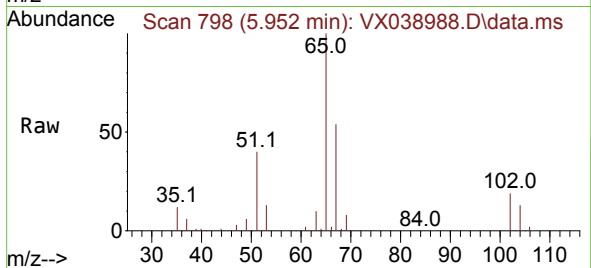
FB-01-20231114

Tgt Ion: 65 Resp: 78239

Ion Ratio Lower Upper

65 100

67 53.5 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: VX038988.D

Acq: 21 Nov 2023 16:35

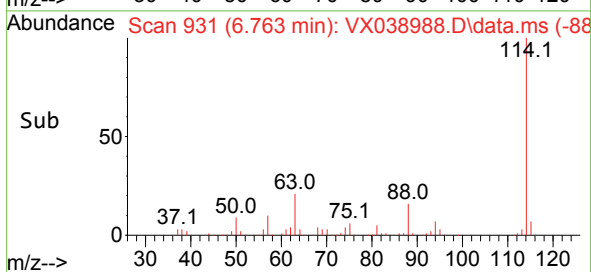
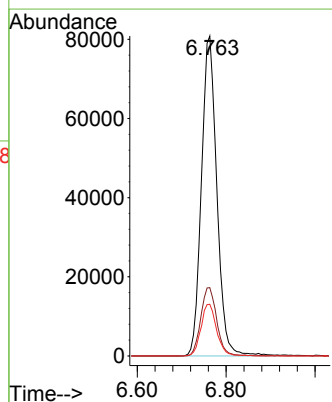
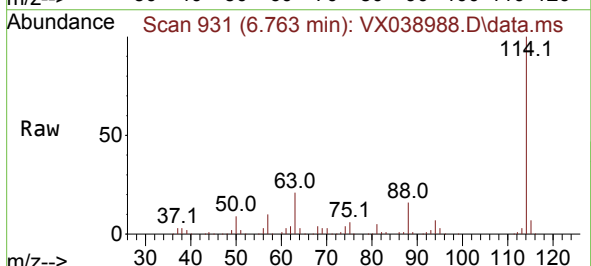
Tgt Ion: 114 Resp: 195500

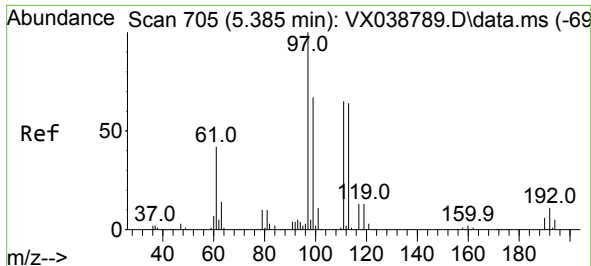
Ion Ratio Lower Upper

114 100

63 21.4 0.0 45.0

88 16.2 0.0 36.6





#35

Dibromofluoromethane

Concen: 43.623 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX038988.D

Acq: 21 Nov 2023 16:35

Instrument :

MSVOA\_X

ClientSampleId :

FB-01-20231114

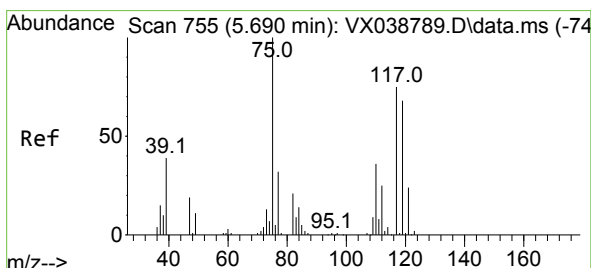
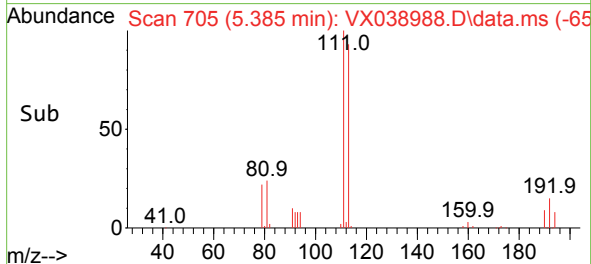
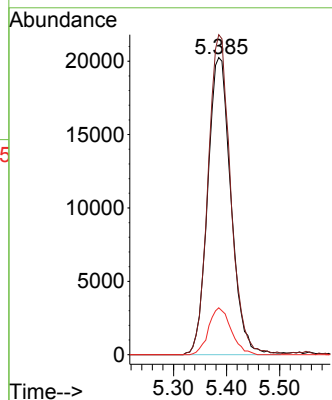
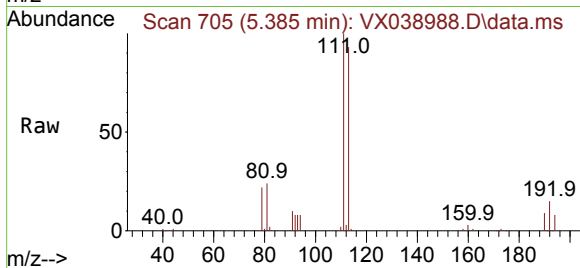
Tgt Ion:113 Resp: 61593

Ion Ratio Lower Upper

113 100

111 104.7 82.9 124.3

192 15.3 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.415 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX038988.D

Acq: 21 Nov 2023 16:35

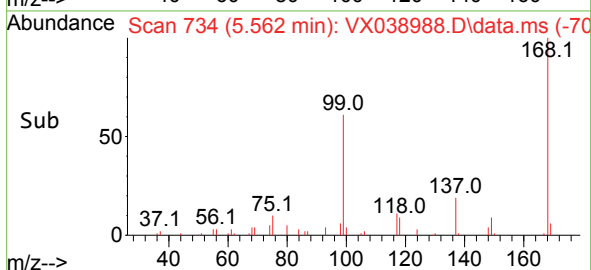
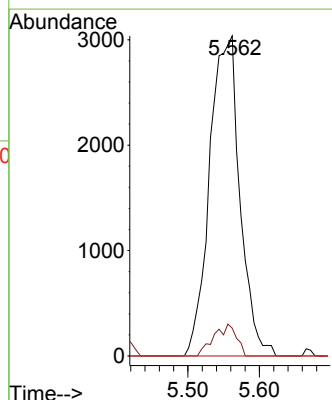
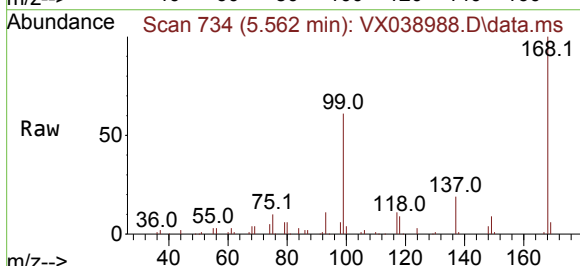
Tgt Ion: 75 Resp: 8934

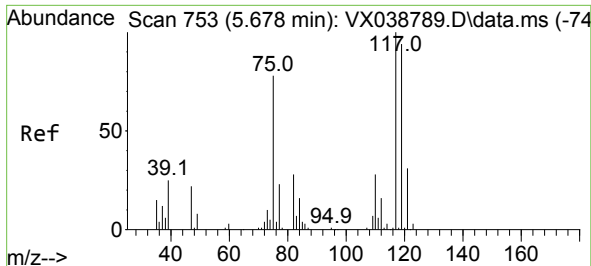
Ion Ratio Lower Upper

75 100

110 7.4 17.0 50.9#

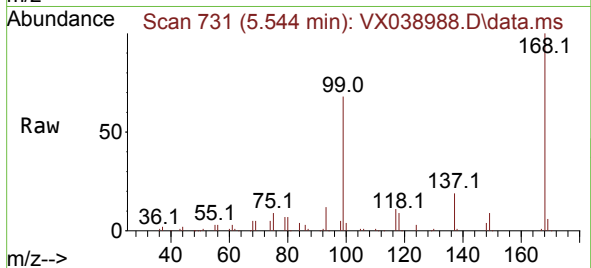
77 0.0 24.7 37.1#



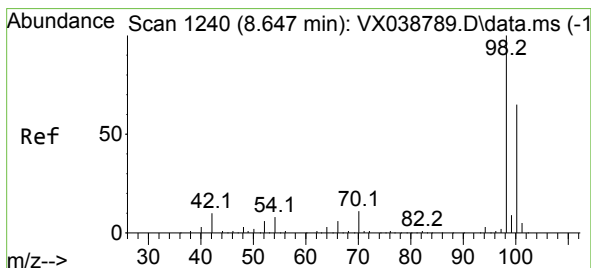
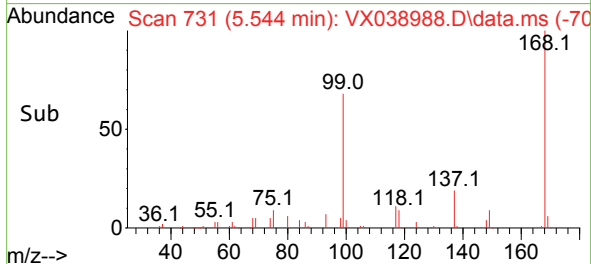
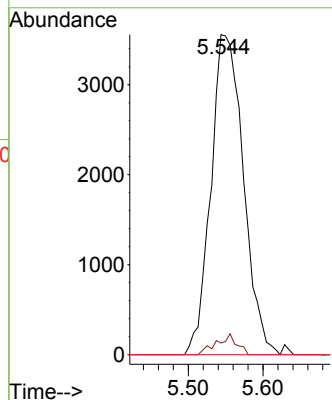


#38  
Carbon Tetrachloride  
Concen: 5.753 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

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MSVOA\_X  
ClientSampleId :  
FB-01-20231114

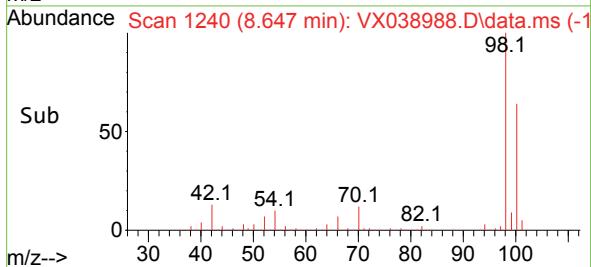
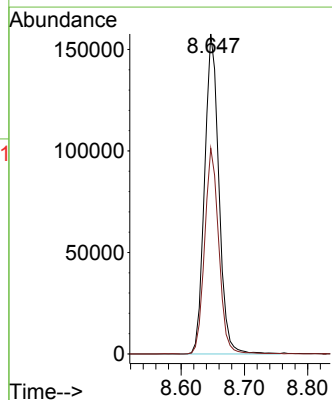
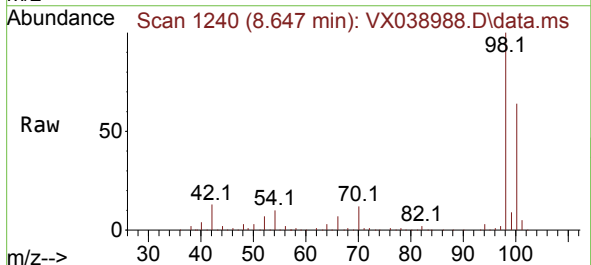


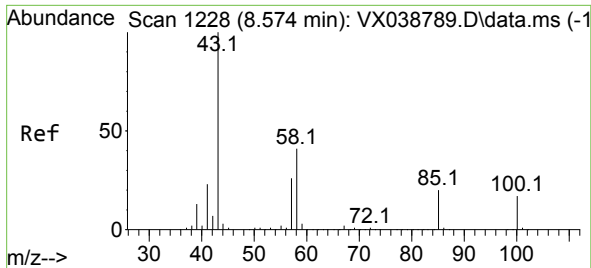
Tgt Ion:117 Resp: 10759  
Ion Ratio Lower Upper  
117 100  
119 3.7 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 45.958 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

Tgt Ion: 98 Resp: 248274  
Ion Ratio Lower Upper  
98 100  
100 63.6 53.1 79.7

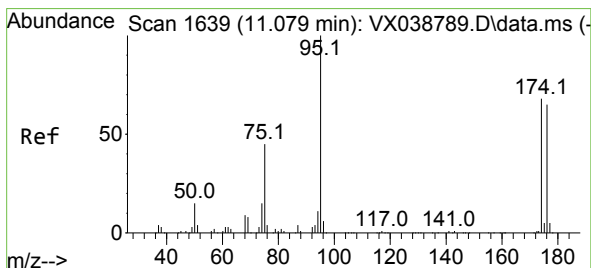
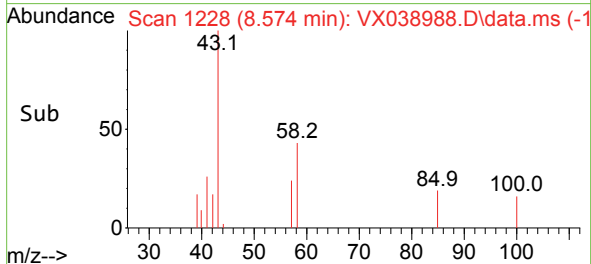
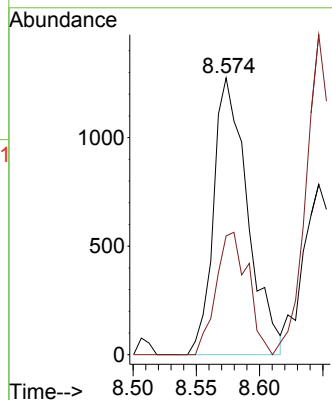
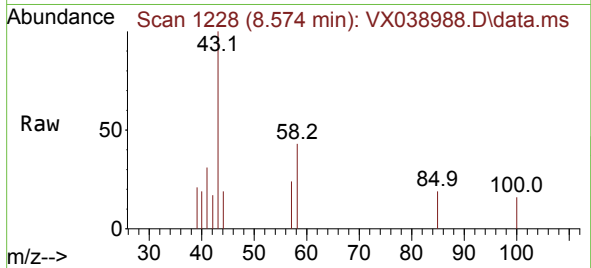




#51  
4-Methyl-2-Pentanone  
Concen: 0.887 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.000 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

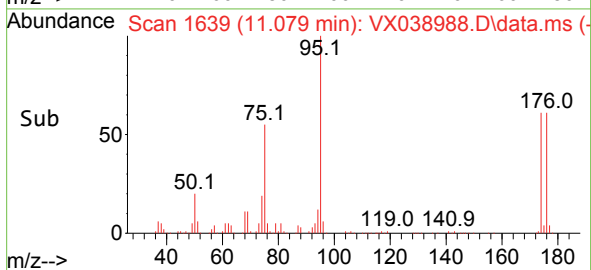
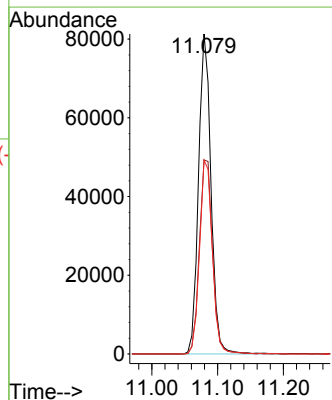
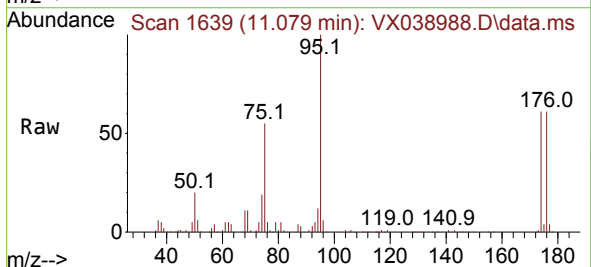
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB-01-20231114

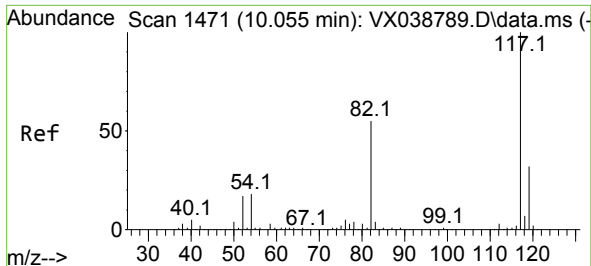
Tgt Ion: 43 Resp: 2388  
Ion Ratio Lower Upper  
43 100  
58 41.5 30.4 45.6



#62  
4-Bromofluorobenzene  
Concen: 49.511 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

Tgt Ion: 95 Resp: 107070  
Ion Ratio Lower Upper  
95 100  
174 64.4 0.0 135.6  
176 62.0 0.0 131.0

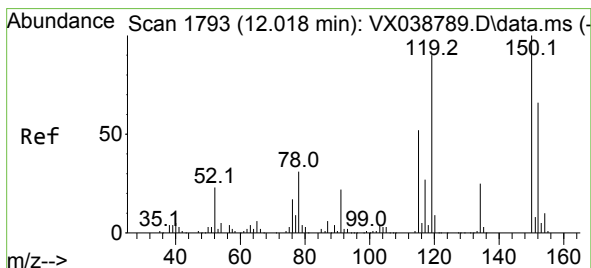
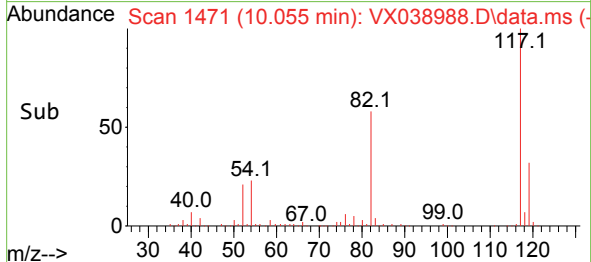
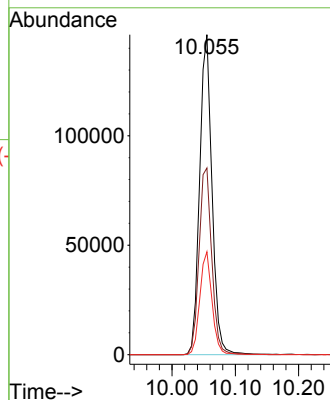
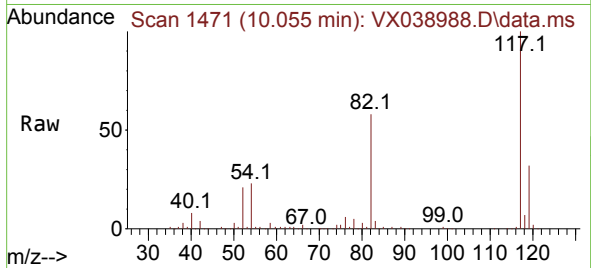




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

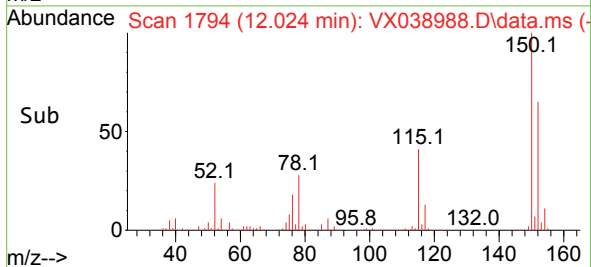
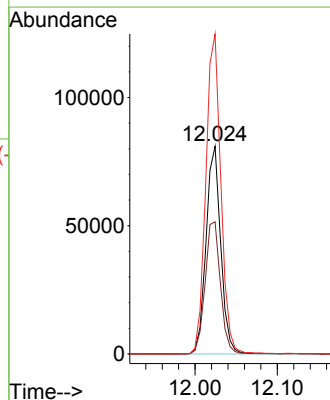
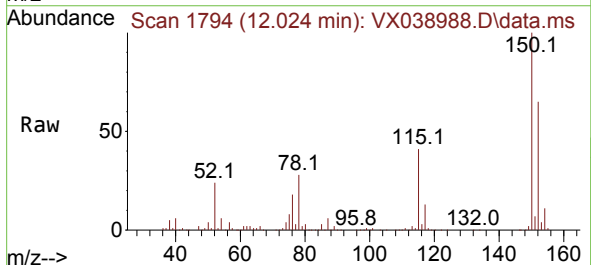
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB-01-20231114

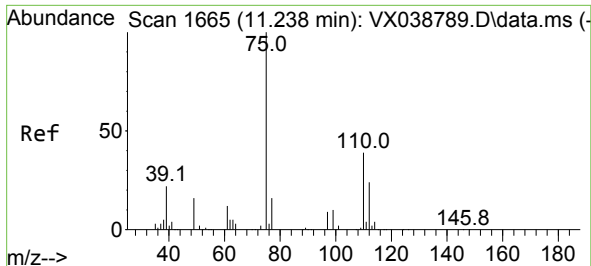
Tgt Ion:117 Resp: 199341  
Ion Ratio Lower Upper  
117 100  
82 58.3 46.2 69.4  
119 32.2 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.006 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

Tgt Ion:152 Resp: 100572  
Ion Ratio Lower Upper  
152 100  
115 66.8 43.3 129.9  
150 157.7 0.0 345.0

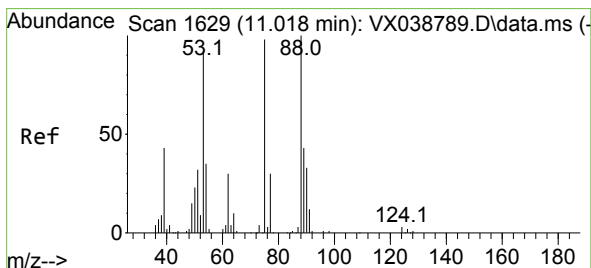
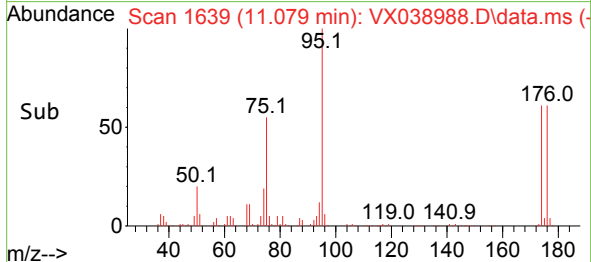
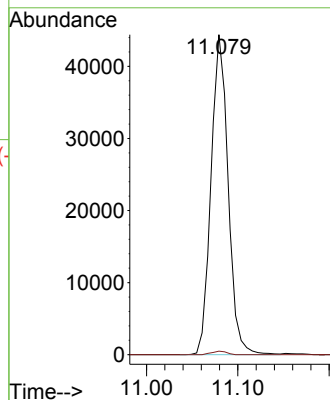
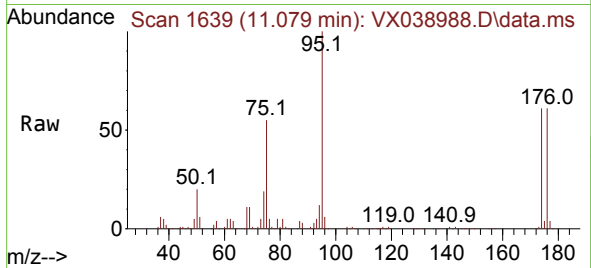




#76  
1,2,3-Trichloropropane  
Concen: 22.914 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
FB-01-20231114

Tgt Ion: 75 Resp: 57498  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 50.826 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX038988.D  
Acq: 21 Nov 2023 16:35

Tgt Ion: 75 Resp: 57498  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

