

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100923\  
 Data File : VX038171.D  
 Acq On : 09 Oct 2023 15:00  
 Operator : JC/MD  
 Sample : 04810-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW10A-GW-640-642

Quant Time: Oct 10 00:57:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

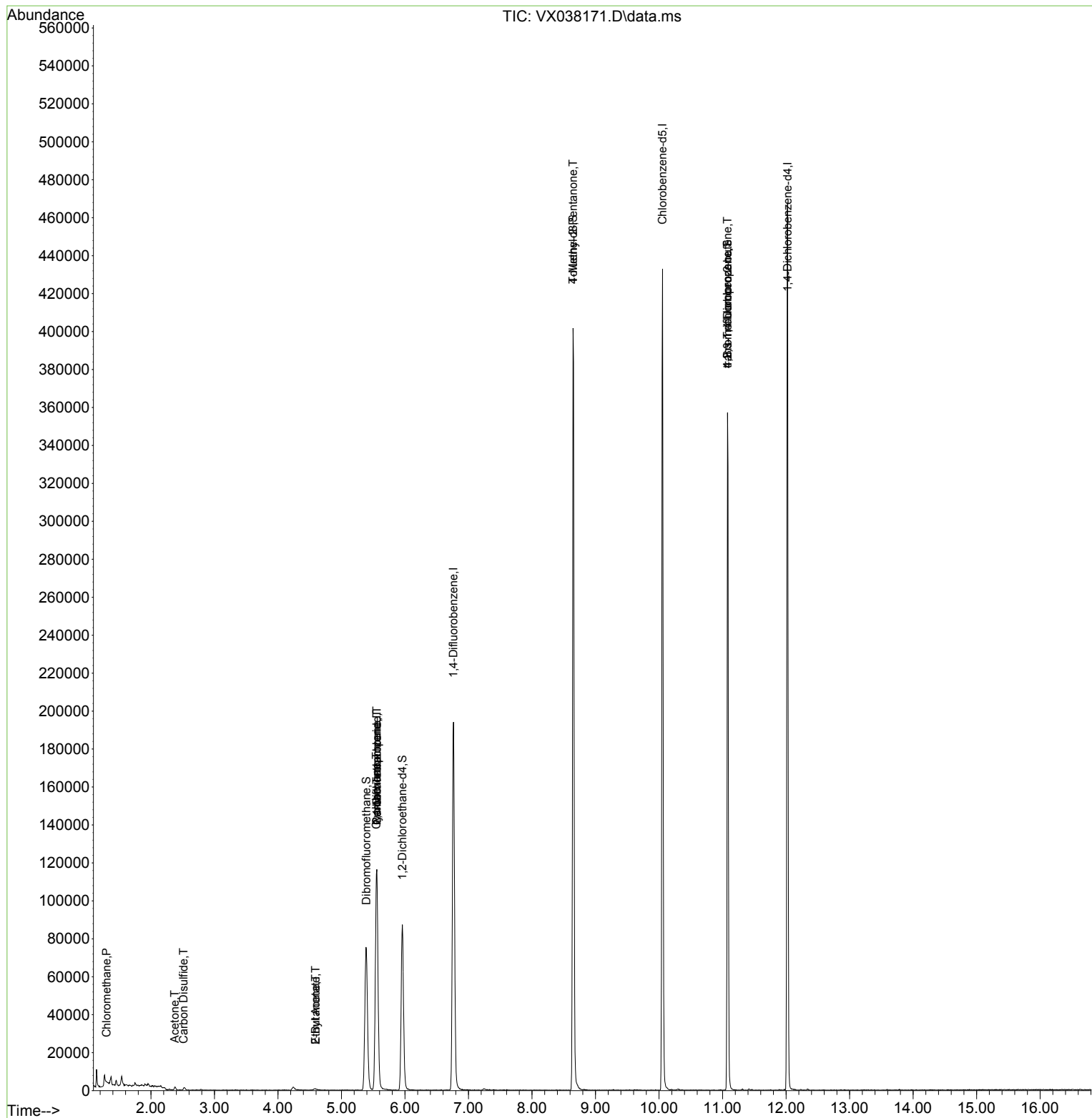
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 110758   | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 197359   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 192227   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 96159    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 82063    | 46.065    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 92.120%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 64587    | 45.417    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 90.840%  |
| 50) Toluene-d8                | 8.647  | 98    | 243634   | 44.834    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 89.660%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 90560    | 43.958    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 87.920%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.301  | 50    | 286      | 0.262     | ug/l   | # 43     |
| 5) Bromomethane               | 1.624  | 94    | 27       | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.685  | 64    | 260      | Below Cal |        | 94       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 27       | Below Cal | #      | 78       |
| 16) Acetone                   | 2.374  | 43    | 1867     | 2.511     | ug/l   | 94       |
| 17) Carbon Disulfide          | 2.514  | 76    | 736      | 0.252     | ug/l   | 99       |
| 25) 2-Butanone                | 4.593  | 43    | 1489     | 1.241     | ug/l   | 94       |
| 31) Cyclohexane               | 5.550  | 56    | 2807     | 1.454     | ug/l   | # 29     |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 9559     | 4.874     | ug/l   | # 50     |
| 37) Ethyl Acetate             | 4.593  | 43    | 1489     | 0.639     | ug/l   | # 69     |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 11828    | 6.131     | ug/l   | # 15     |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1115     | 0.465     | ug/l   | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 49826    | 22.793    | ug/l   | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 49826    | 65.218    | ug/l   | # 5      |
| -----                         |        |       |          |           |        |          |

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

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Sample : 04810-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

Quant Time: Oct 10 00:57:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration

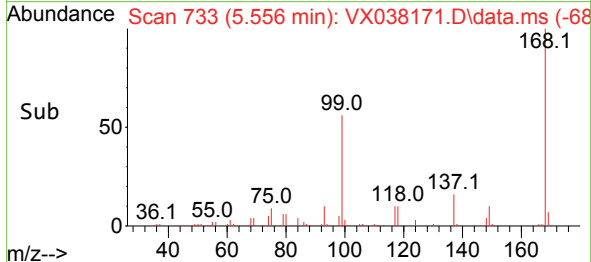
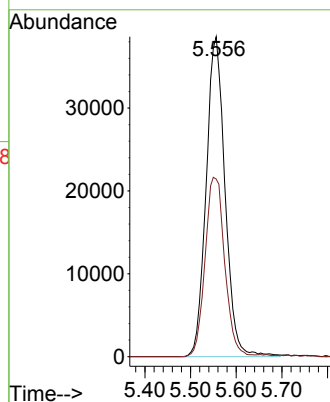
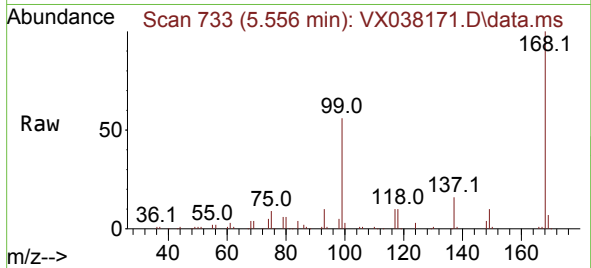




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

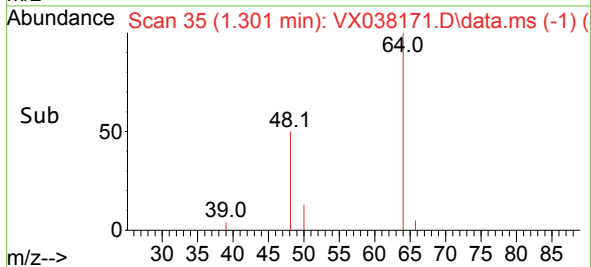
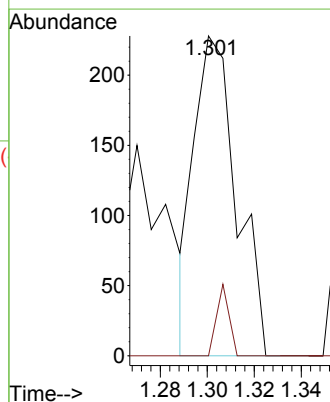
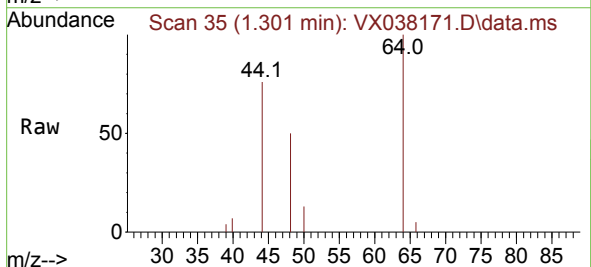
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

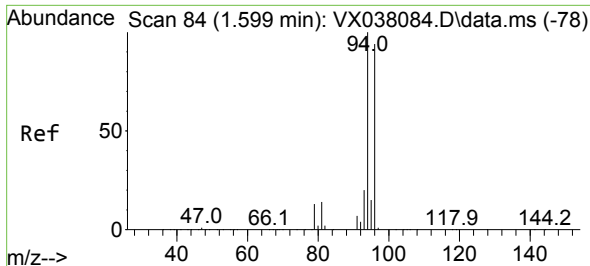
Tgt Ion:168 Resp: 110758  
Ion Ratio Lower Upper  
168 100  
99 55.5 56.6 85.0#



#3  
Chloromethane  
Concen: 0.262 ug/l  
RT: 1.301 min Scan# 35  
Delta R.T. -0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion: 50 Resp: 286  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#

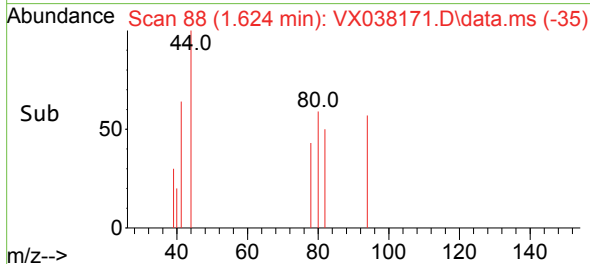
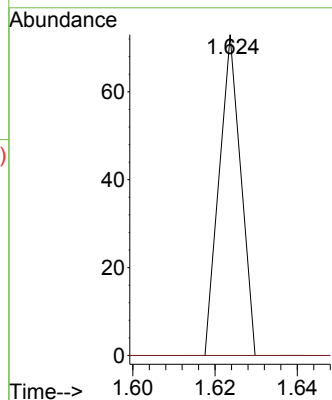
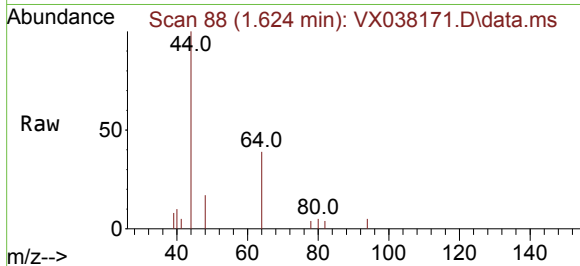




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.624 min Scan# 81  
Delta R.T. 0.025 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

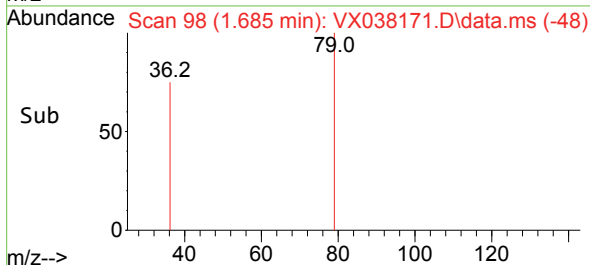
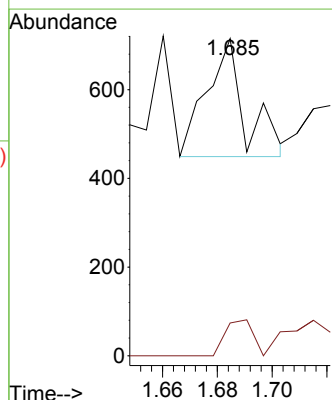
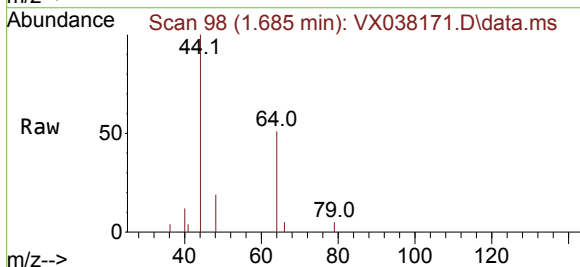
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

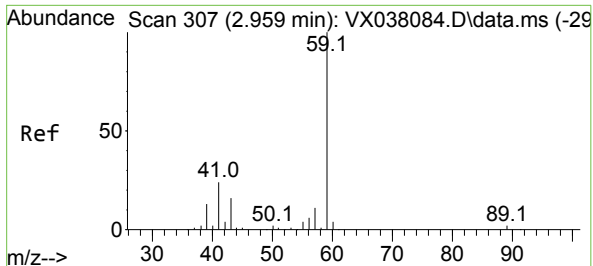
Tgt Ion: 94 Resp: 27  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.685 min Scan# 98  
Delta R.T. 0.006 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion: 64 Resp: 260  
Ion Ratio Lower Upper  
64 100  
66 27.8 25.1 37.7





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.947 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX038171.D

Acq: 09 Oct 2023 15:00

Instrument :

MSVOA\_X

ClientSampleId :

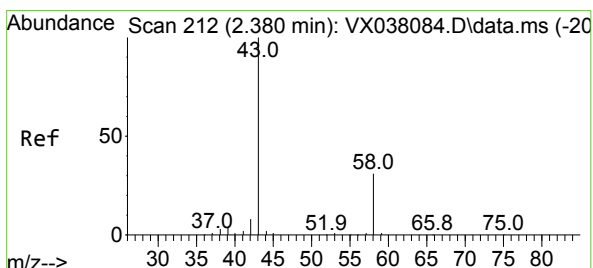
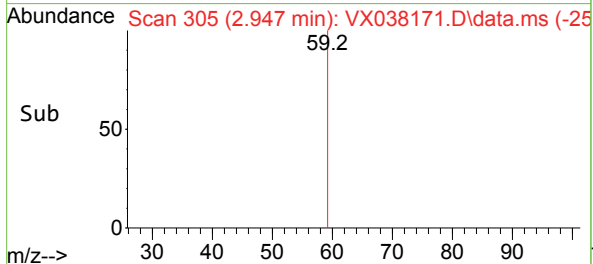
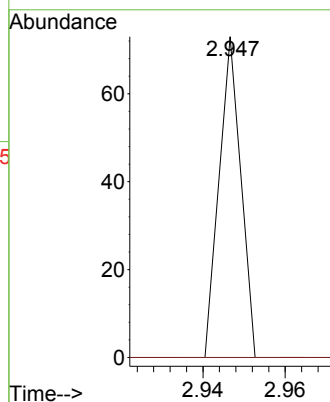
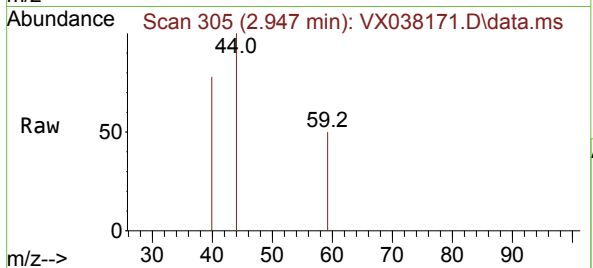
BP-VPB-RW10A-GW-640-642

Tgt Ion: 59 Resp: 27

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 2.511 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX038171.D

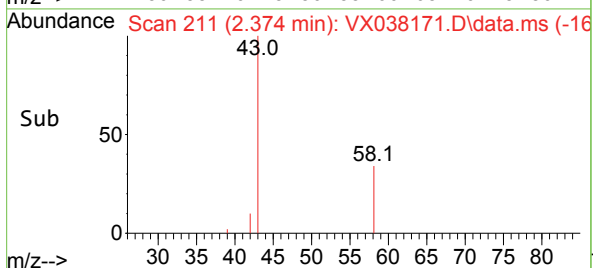
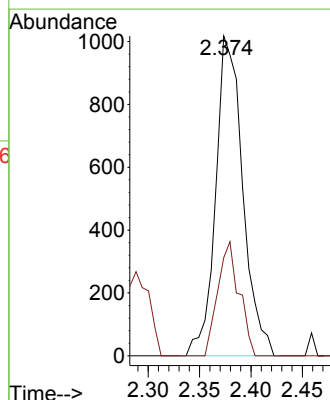
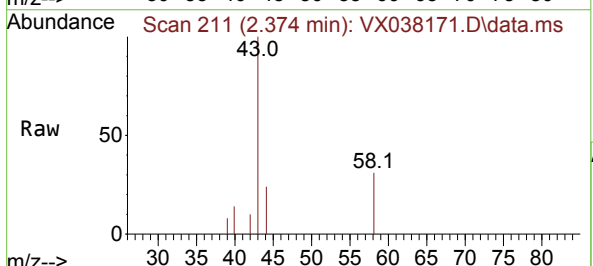
Acq: 09 Oct 2023 15:00

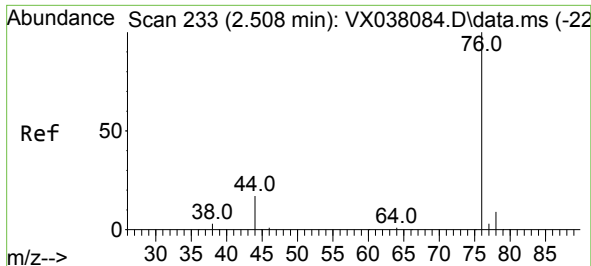
Tgt Ion: 43 Resp: 1867

Ion Ratio Lower Upper

43 100

58 30.6 21.9 32.9

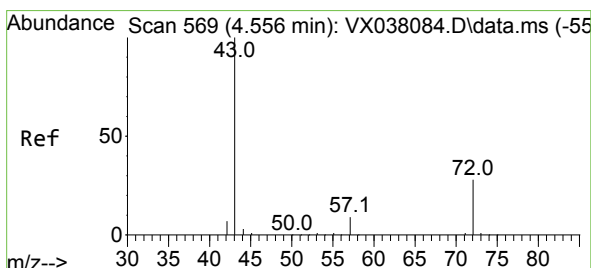
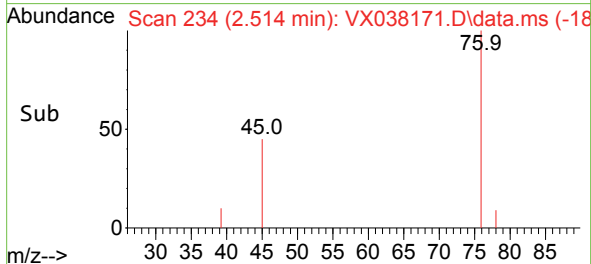
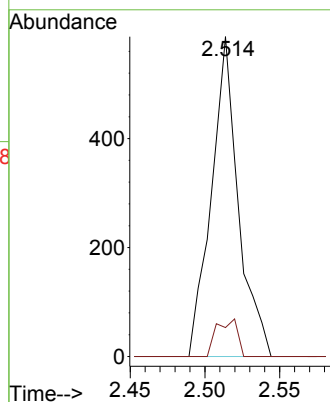
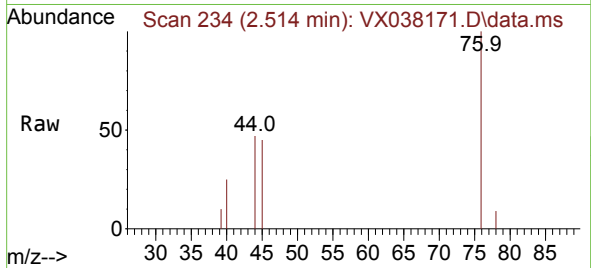




#17  
Carbon Disulfide  
Concen: 0.252 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

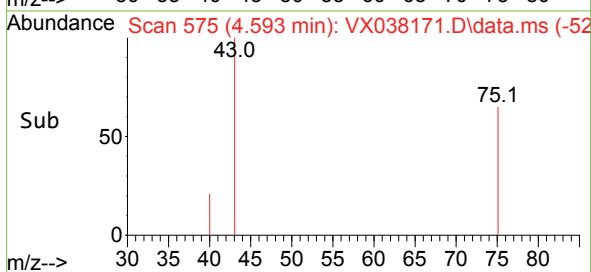
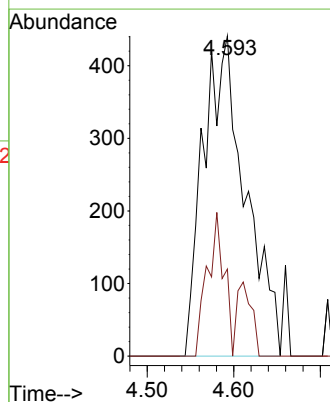
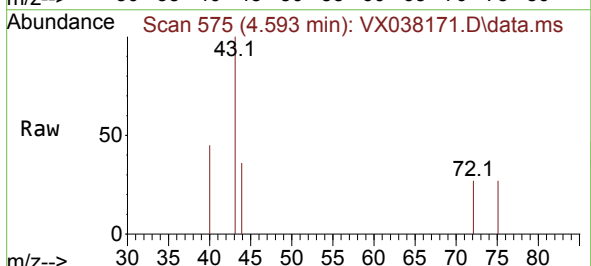
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

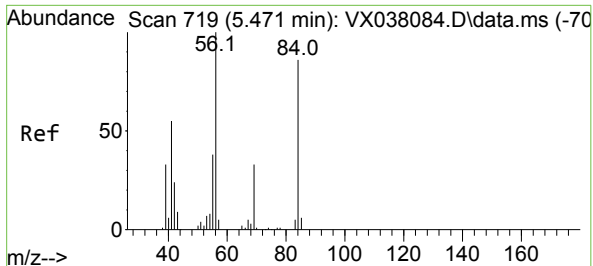
Tgt Ion: 76 Resp: 736  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.0 10.6



#25  
2-Butanone  
Concen: 1.241 ug/l  
RT: 4.593 min Scan# 575  
Delta R.T. 0.037 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

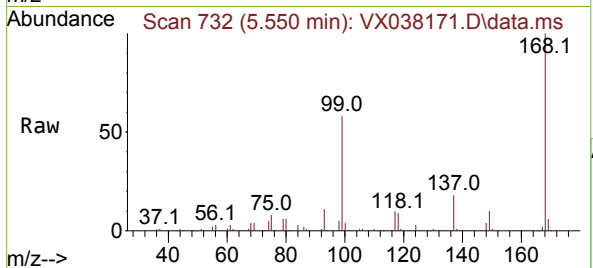
Tgt Ion: 43 Resp: 1489  
Ion Ratio Lower Upper  
43 100  
72 27.2 19.4 29.2



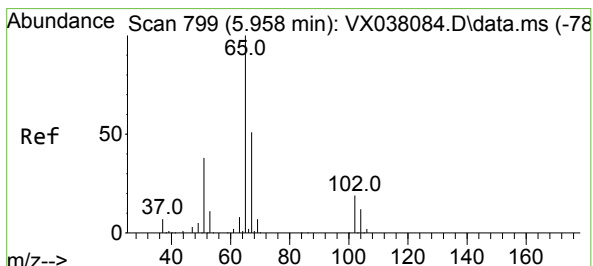
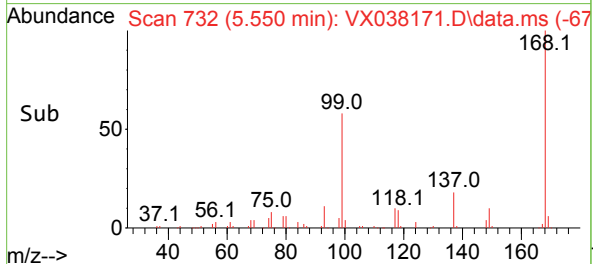
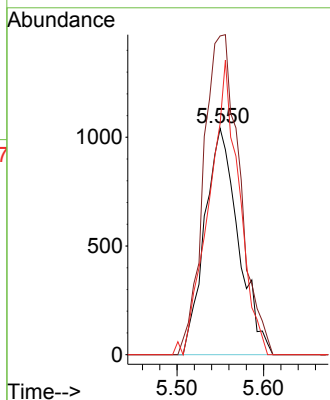


#31  
Cyclohexane  
Concen: 1.454 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

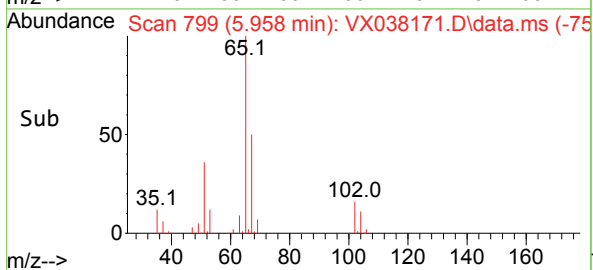
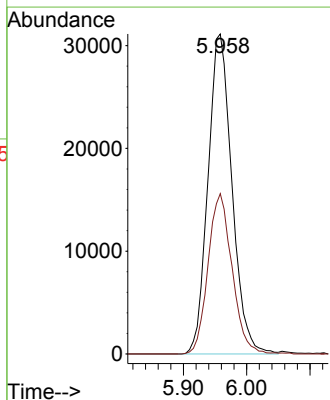
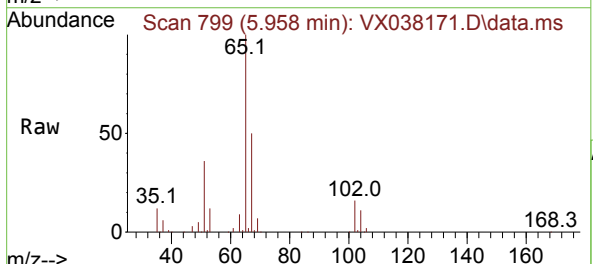


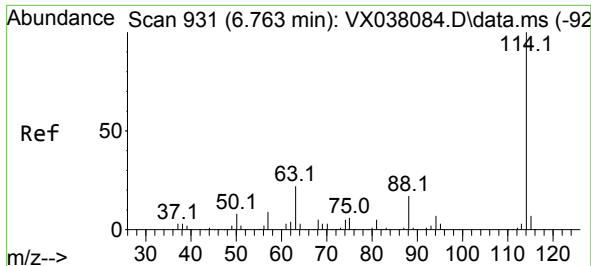
Tgt Ion: 56 Resp: 2807  
Ion Ratio Lower Upper  
56 100  
69 140.8 23.4 35.2#  
84 102.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 46.065 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion: 65 Resp: 82063  
Ion Ratio Lower Upper  
65 100  
67 50.2 0.0 100.2

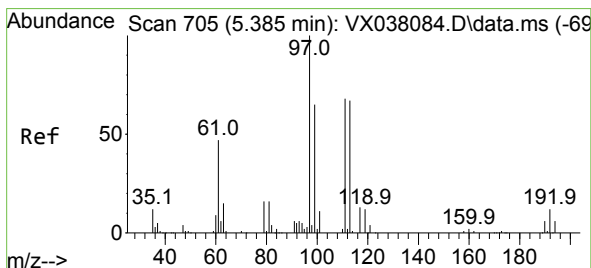
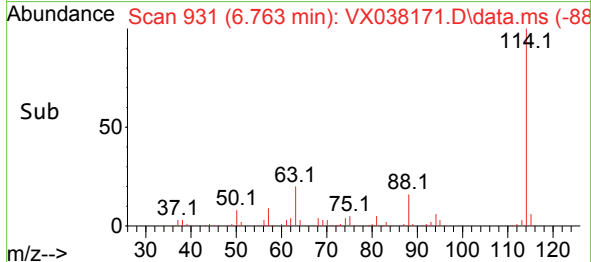
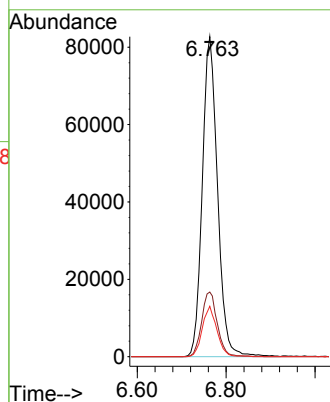
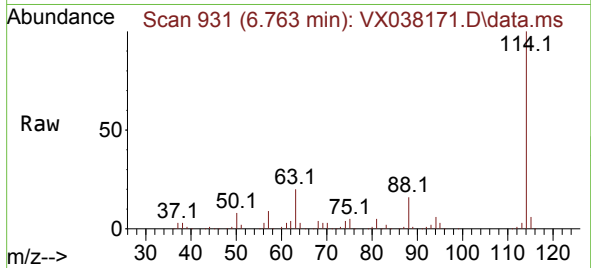




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

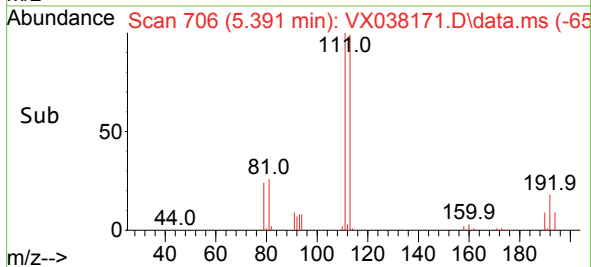
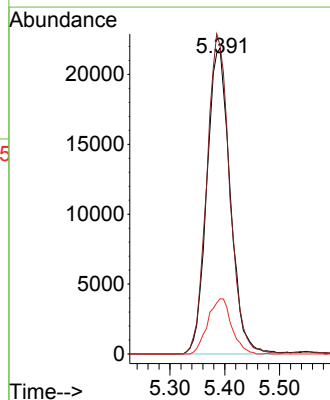
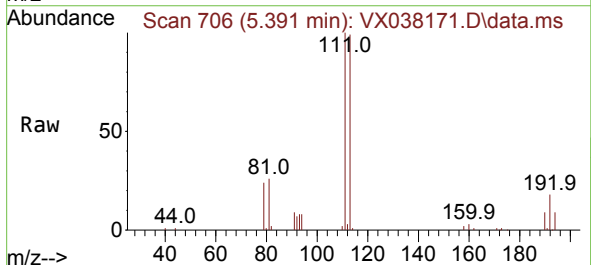
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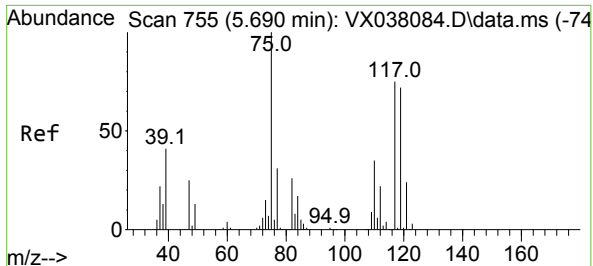
Tgt Ion:114 Resp: 197359  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 45.0  
88 15.7 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 45.417 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion:113 Resp: 64587  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.9 124.3  
192 18.4 13.3 19.9





#36

1,1-Dichloropropene

Concen: 4.874 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX038171.D

Acq: 09 Oct 2023 15:00

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW10A-GW-640-642

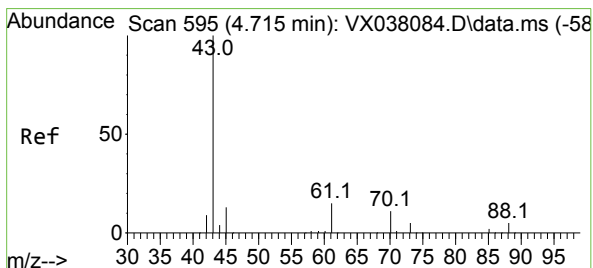
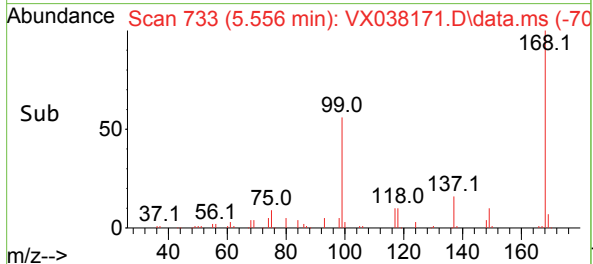
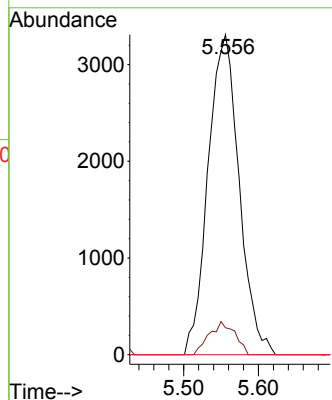
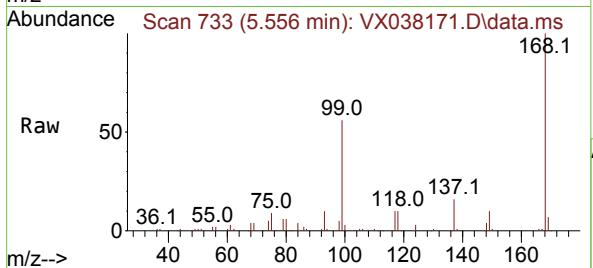
Tgt Ion: 75 Resp: 9559

Ion Ratio Lower Upper

75 100

110 8.5 17.0 50.9#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 0.639 ug/l

RT: 4.593 min Scan# 575

Delta R.T. -0.122 min

Lab File: VX038171.D

Acq: 09 Oct 2023 15:00

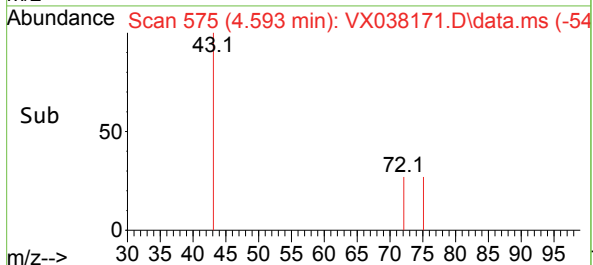
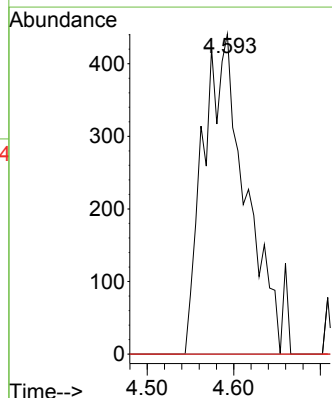
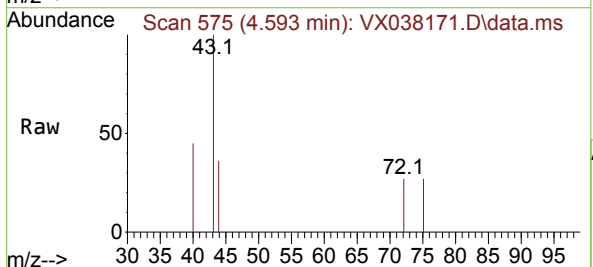
Tgt Ion: 43 Resp: 1489

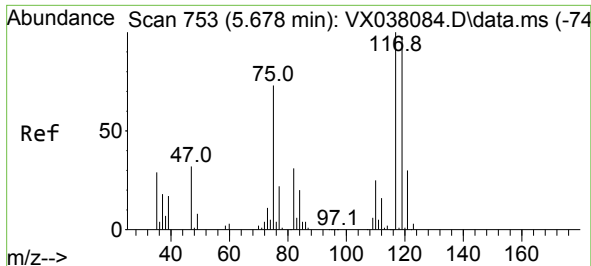
Ion Ratio Lower Upper

43 100

61 0.0 10.6 16.0#

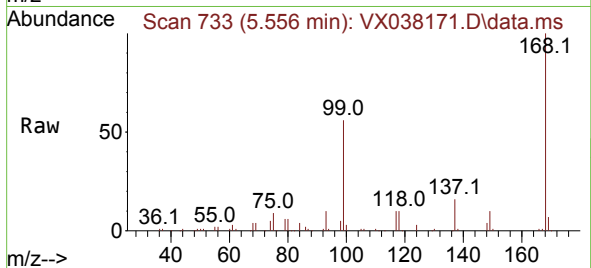
70 0.0 8.3 12.5#



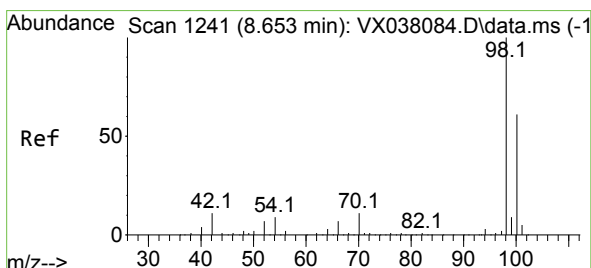
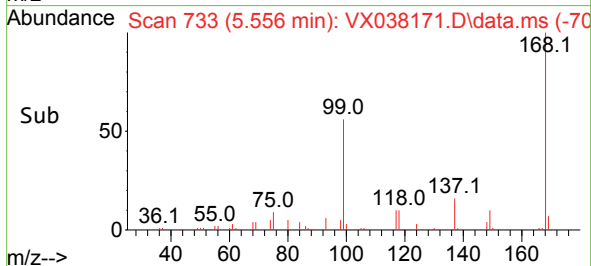
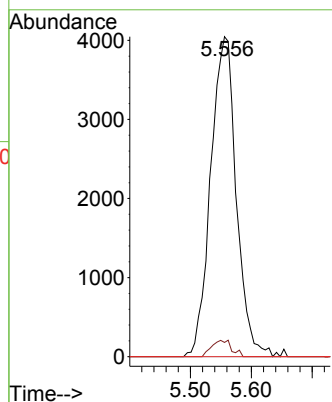


#38  
Carbon Tetrachloride  
Concen: 6.131 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

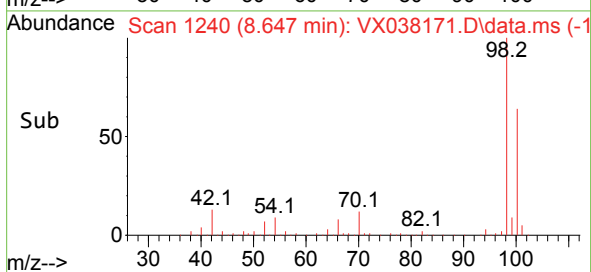
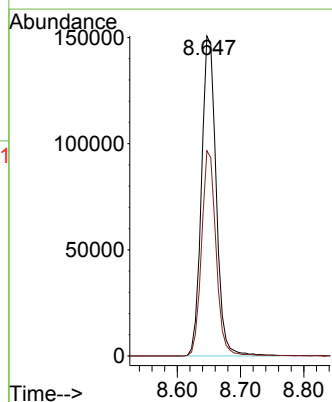
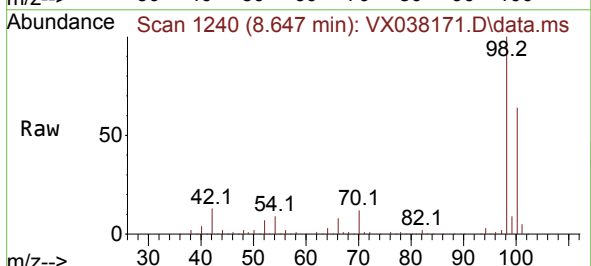


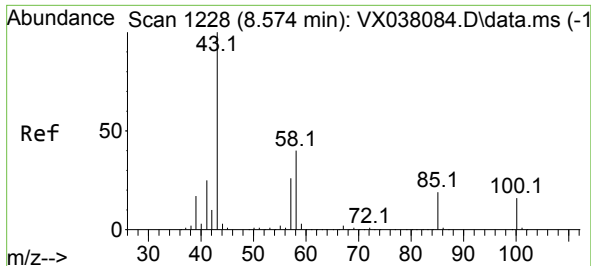
Tgt Ion:117 Resp: 11828  
Ion Ratio Lower Upper  
117 100  
119 4.5 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 44.834 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion: 98 Resp: 243634  
Ion Ratio Lower Upper  
98 100  
100 63.4 53.1 79.7

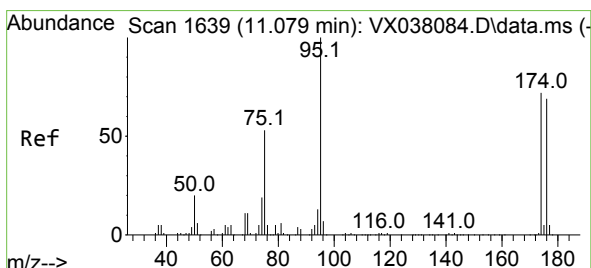
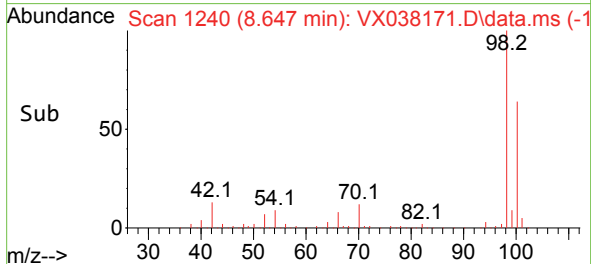
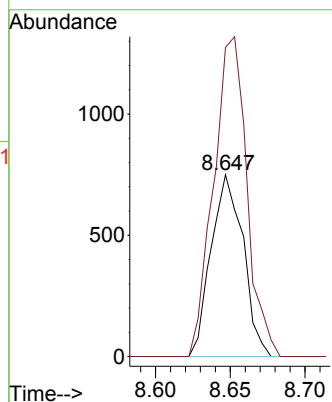
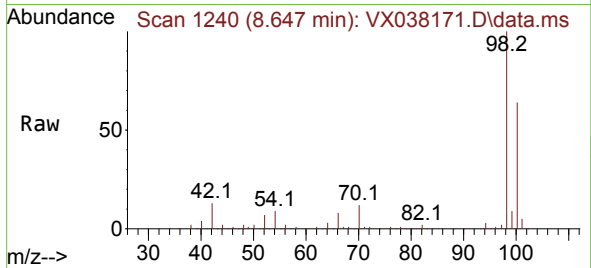




#51  
4-Methyl-2-Pentanone  
Concen: 0.465 ug/l  
RT: 8.647 min Scan# 1115  
Delta R.T. 0.073 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

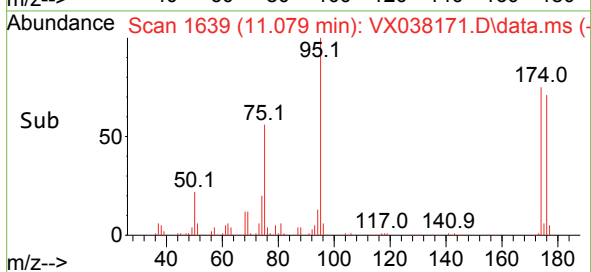
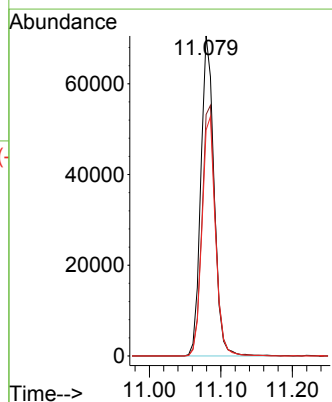
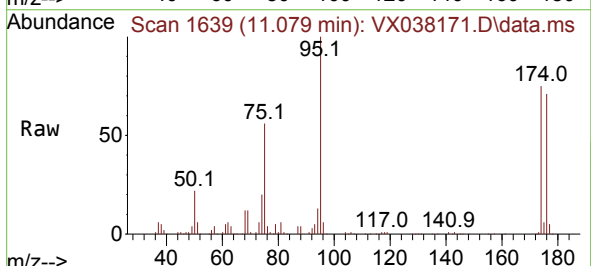
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

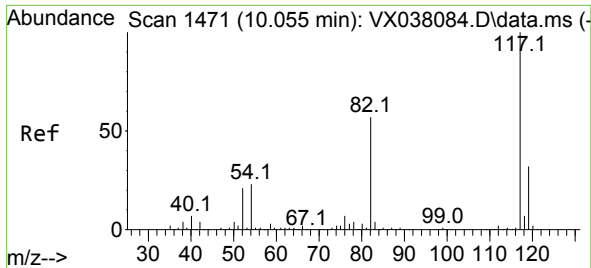
Tgt Ion: 43 Resp: 1115  
Ion Ratio Lower Upper  
43 100  
58 183.4 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 43.958 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion: 95 Resp: 90560  
Ion Ratio Lower Upper  
95 100  
174 80.6 0.0 135.6  
176 76.1 0.0 131.0

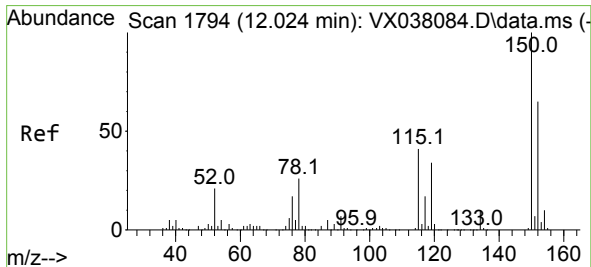
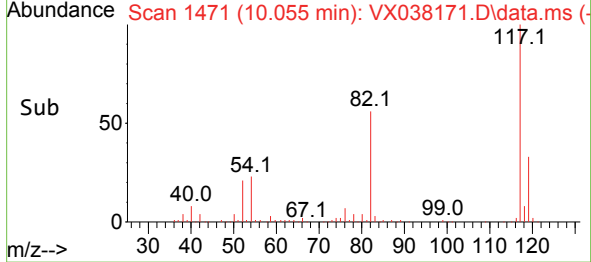
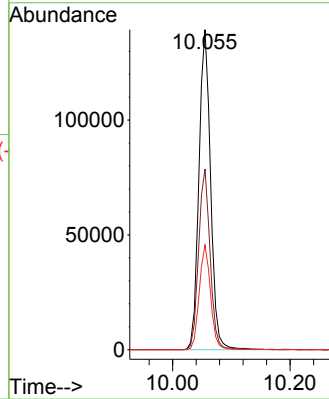
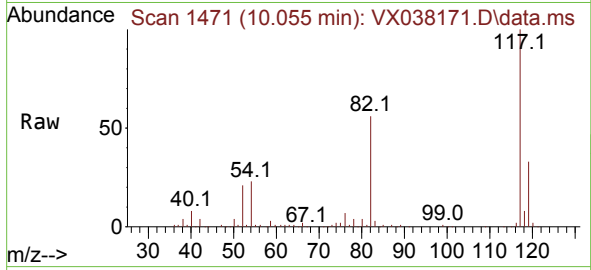




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

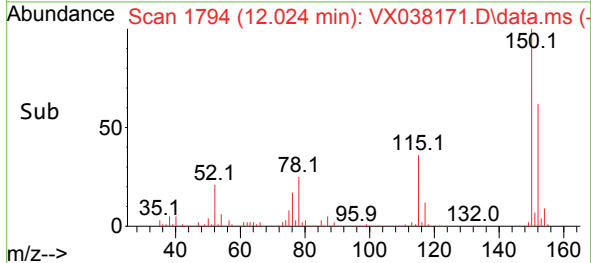
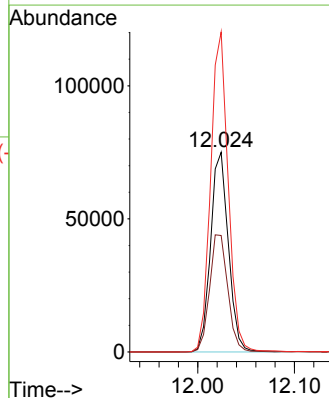
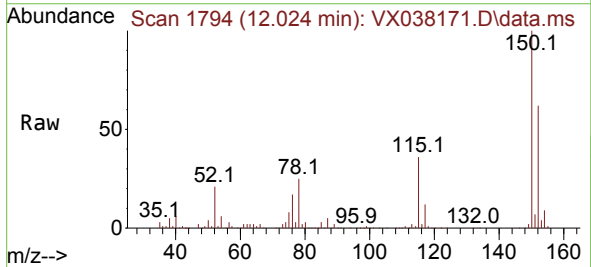
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-640-642

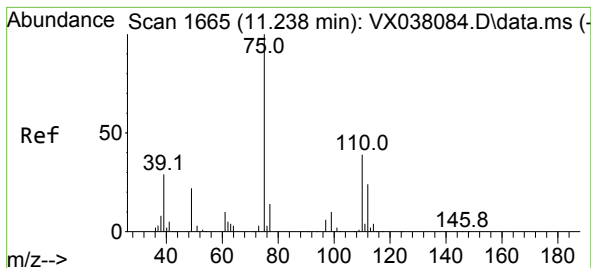
Tgt Ion:117 Resp: 192227  
Ion Ratio Lower Upper  
117 100  
82 56.5 46.2 69.4  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX038171.D  
Acq: 09 Oct 2023 15:00

Tgt Ion:152 Resp: 96159  
Ion Ratio Lower Upper  
152 100  
115 60.3 43.3 129.9  
150 157.9 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 22.793 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038171.D

Acq: 09 Oct 2023 15:00

Instrument :

MSVOA\_X

ClientSampleId :

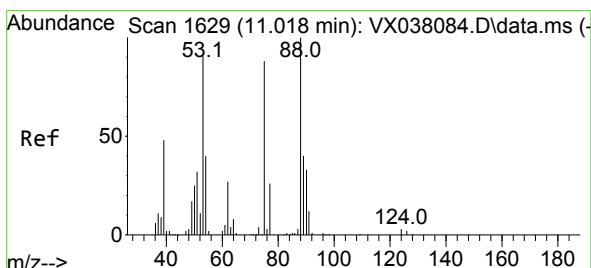
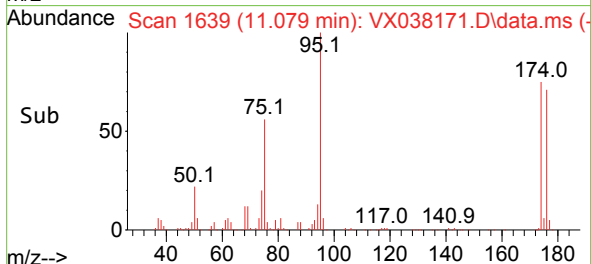
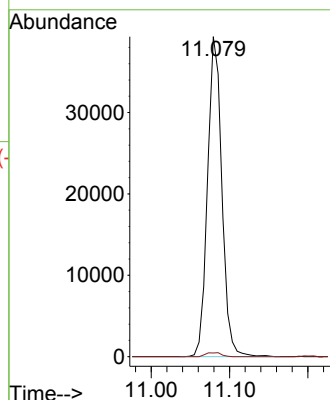
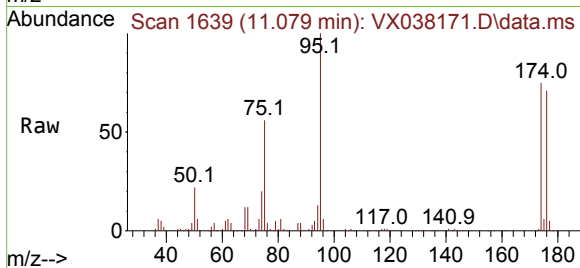
BP-VPB-RW10A-GW-640-642

Tgt Ion: 75 Resp: 49826

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.218 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038171.D

Acq: 09 Oct 2023 15:00

Tgt Ion: 75 Resp: 49826

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

