

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120922\  
 Data File : VX033354.D  
 Acq On : 09 Dec 2022 17:45  
 Operator : JC/MD  
 Sample : N5966-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GW-BR-04-113-127-120822-FD

Quant Time: Dec 10 05:57:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 07 12:43:54 2022  
 Response via : Initial Calibration

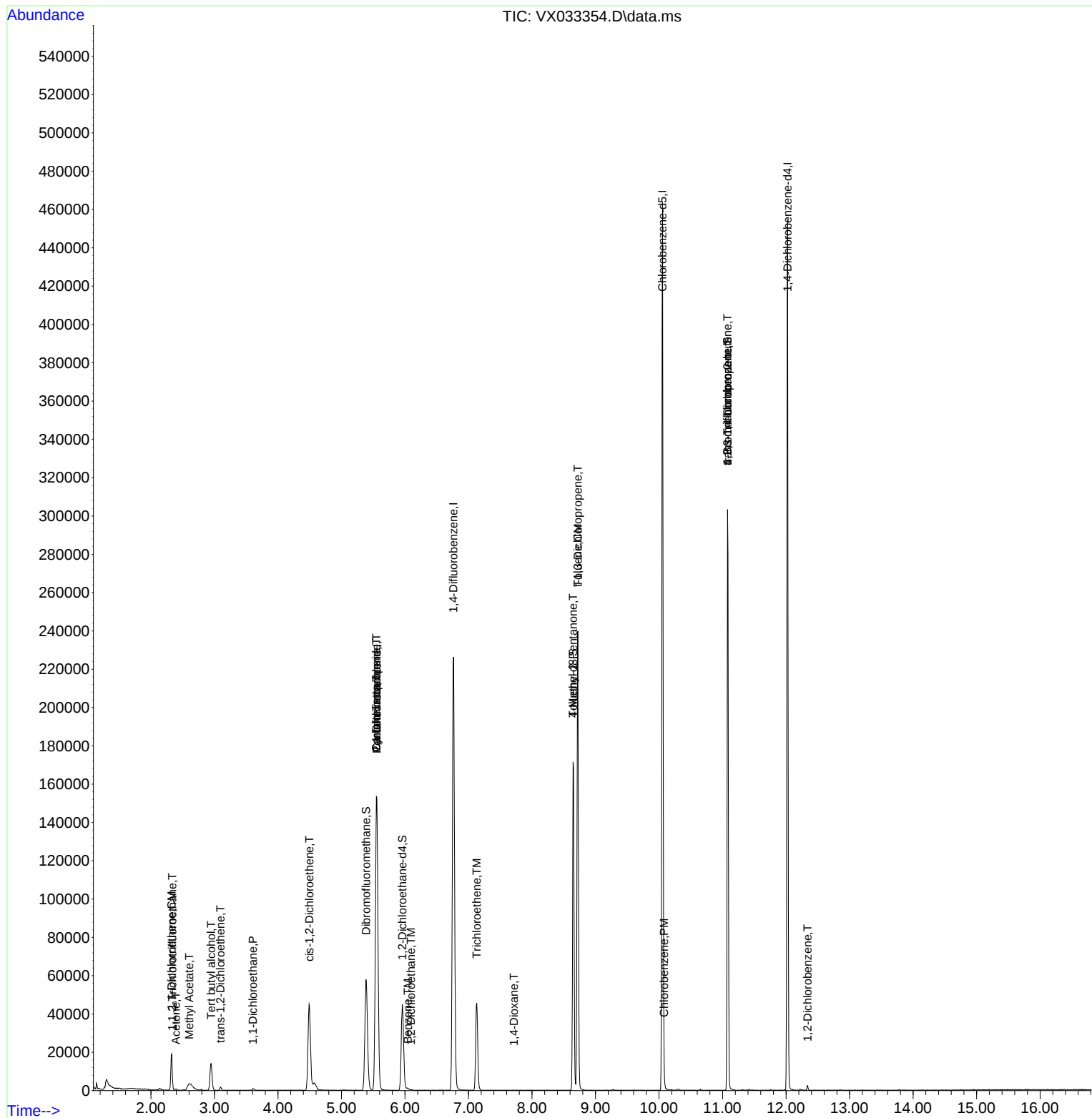
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.555          | 168  | 149043     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 238773     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 208463     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 96777      | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 46734      | 48.877  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 97.760% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 50301      | 46.837  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.680% |        |          |
| 50) Toluene-d8                | 8.646          | 98   | 107525     | 47.860  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 95.720% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 82234      | 47.871  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 95.740% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337          | 101  | 369        | 0.270   | ug/l # | 85       |
| 11) Tert butyl alcohol        | 2.946          | 59   | 8464       | 28.954  | ug/l # | 74       |
| 12) 1,1-Dichloroethene        | 2.324          | 96   | 6228       | 4.609   | ug/l   | 99       |
| 16) Acetone                   | 2.391          | 43   | 965        | 1.364   | ug/l   | 96       |
| 18) Methyl Acetate            | 2.605          | 43   | 2595       | 1.267   | ug/l # | 51       |
| 21) trans-1,2-Dichloroethene  | 3.092          | 96   | 671        | 0.454   | ug/l # | 82       |
| 24) 1,1-Dichloroethane        | 3.605          | 63   | 1257       | 0.463   | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 4.495          | 96   | 29679      | 16.801  | ug/l   | 89       |
| 31) Cyclohexane               | 5.549          | 56   | 2740       | 1.206   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.549          | 75   | 11220      | 5.359   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.549          | 117  | 15188      | 6.474   | ug/l # | 16       |
| 40) Benzene                   | 6.043          | 78   | 1268       | 0.208   | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 6.092          | 62   | 611        | 0.252   | ug/l # | 77       |
| 44) Trichloroethene           | 7.128          | 130  | 18954      | 11.261  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 7.714          | 88   | 41         | 1.094   | ug/l # | 26       |
| 51) 4-Methyl-2-Pentanone      | 8.646          | 43   | 413        | 0.205   | ug/l # | 1        |
| 52) Toluene                   | 8.720          | 92   | 89684      | 22.721  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.720          | 75   | 1143       | 2.941   | ug/l # | 1        |
| 65) Chlorobenzene             | 10.079         | 112  | 1056       | 0.250   | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 43079      | 21.879  | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 43079      | 68.059  | ug/l # | 6        |
| 91) 1,2-Dichlorobenzene       | 12.341         | 146  | 1049       | 0.327   | ug/l   | 98       |
| -----                         |                |      |            |         |        |          |

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

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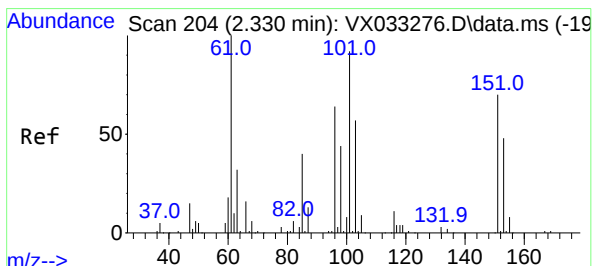
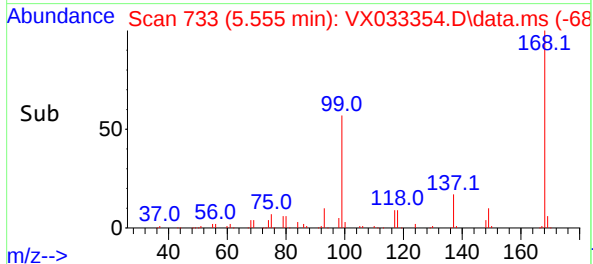
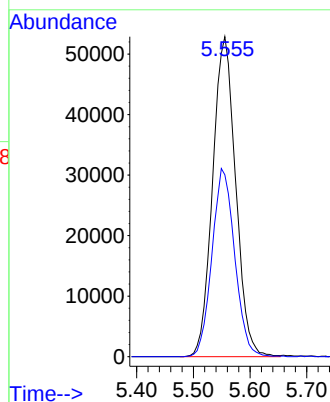
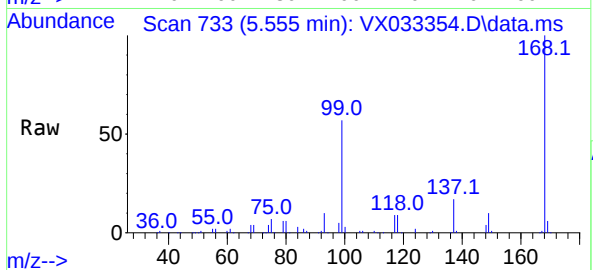




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.555 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

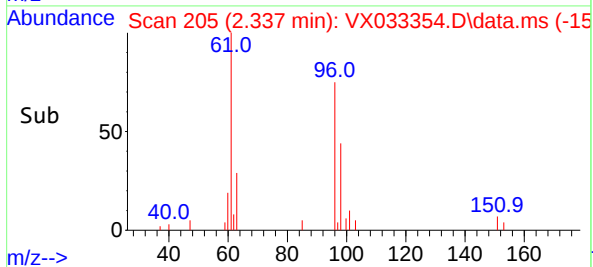
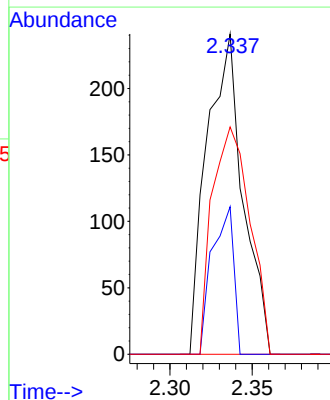
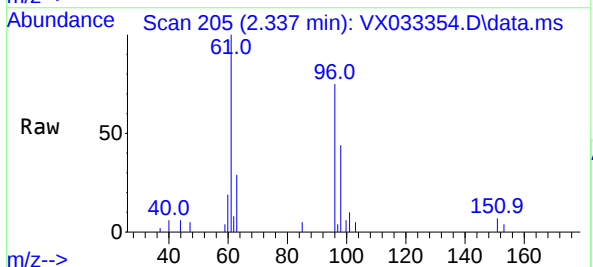
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

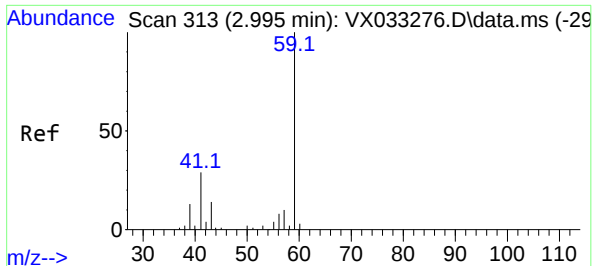
Tgt Ion:168 Resp: 149043  
Ion Ratio Lower Upper  
168 100  
99 56.9 46.1 69.1



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.270 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. 0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion:101 Resp: 369  
Ion Ratio Lower Upper  
101 100  
85 27.4 37.0 55.4#  
151 74.3 64.4 96.6





#11

Tert butyl alcohol

Concen: 28.954 ug/l

RT: 2.946 min Scan# 305

Delta R.T. -0.049 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

Instrument :

MSVOA\_X

ClientSampleId :

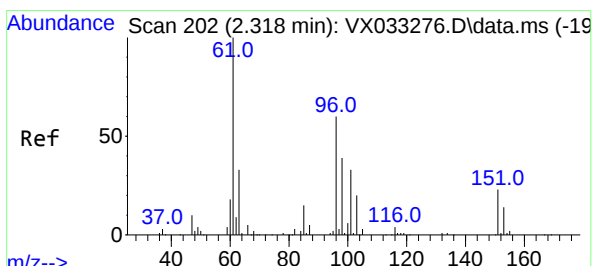
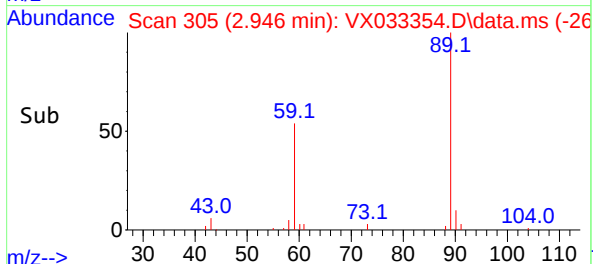
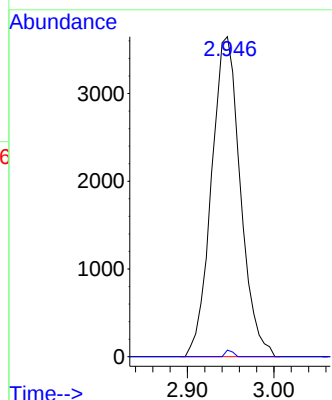
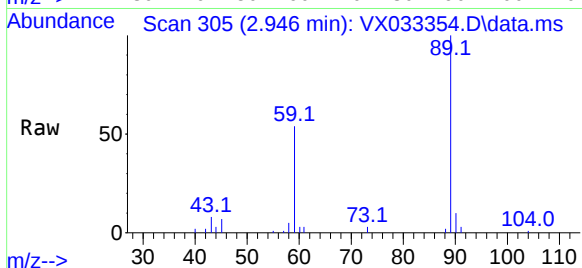
GW-BR-04-113-127-120822-FD

Tgt Ion: 59 Resp: 8464

Ion Ratio Lower Upper

59 100

57 0.6 8.2 12.4#



#12

1,1-Dichloroethene

Concen: 4.609 ug/l

RT: 2.324 min Scan# 203

Delta R.T. 0.006 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

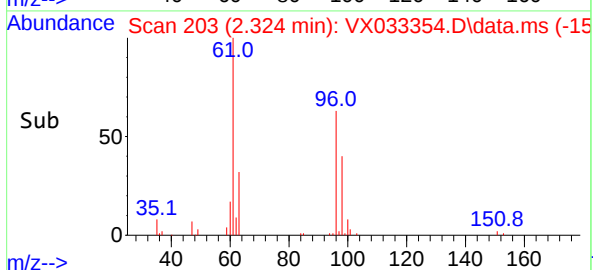
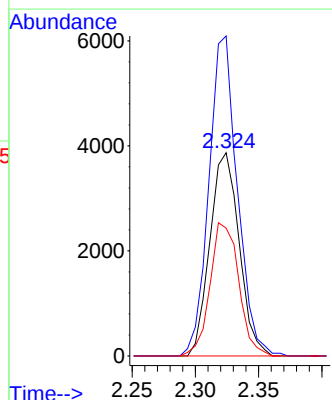
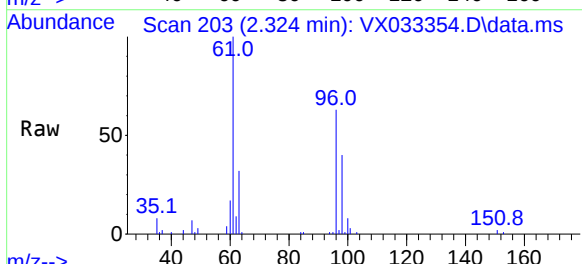
Tgt Ion: 96 Resp: 6228

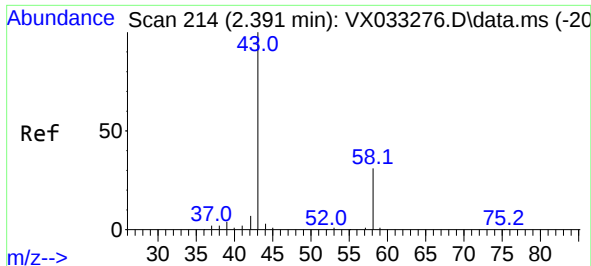
Ion Ratio Lower Upper

96 100

61 157.5 125.1 187.7

98 62.9 50.6 76.0

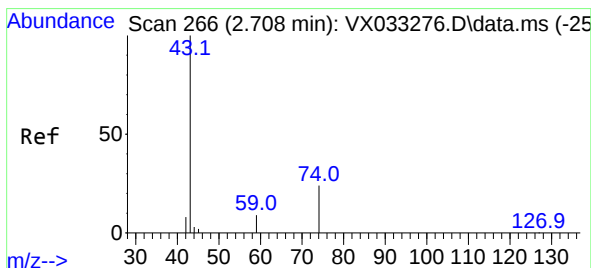
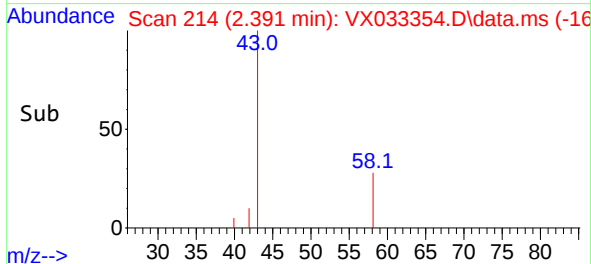
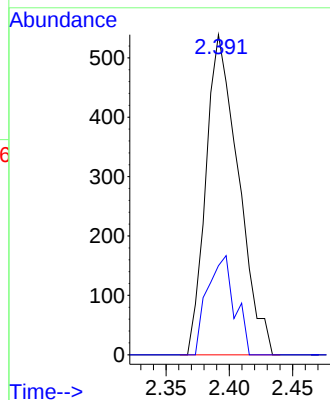
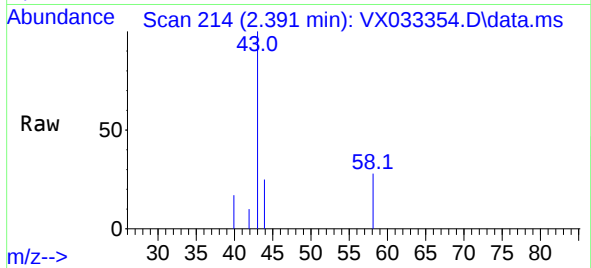




#16  
Acetone  
Concen: 1.364 ug/l  
RT: 2.391 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

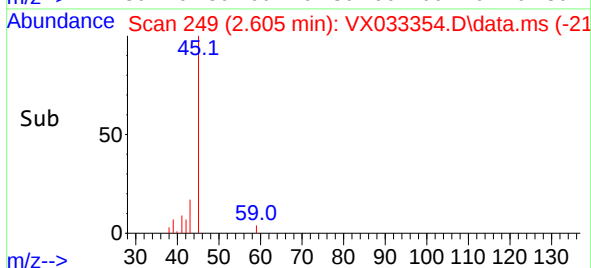
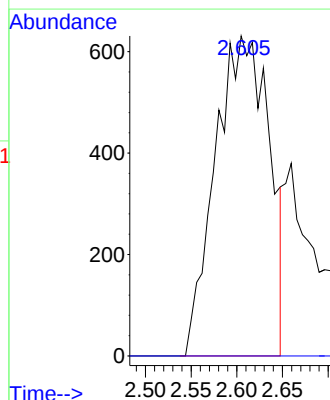
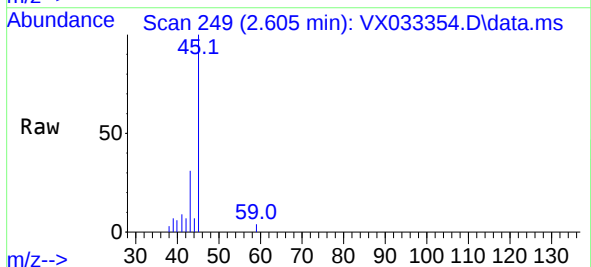
Instrument : MSVOA\_X  
ClientSampleId : GW-BR-04-113-127-120822-FD

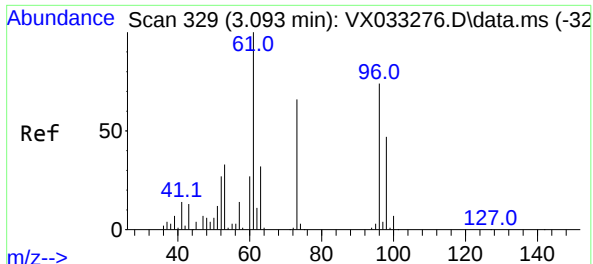
Tgt Ion: 43 Resp: 965  
Ion Ratio Lower Upper  
43 100  
58 27.8 23.8 35.8



#18  
Methyl Acetate  
Concen: 1.267 ug/l  
RT: 2.605 min Scan# 249  
Delta R.T. -0.104 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion: 43 Resp: 2595  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.0#

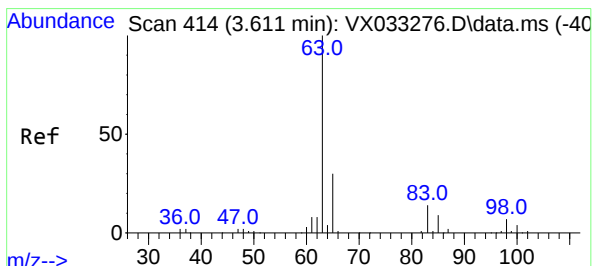
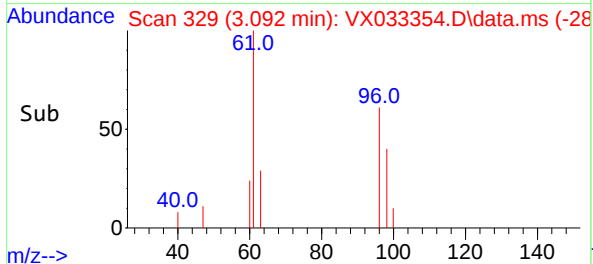
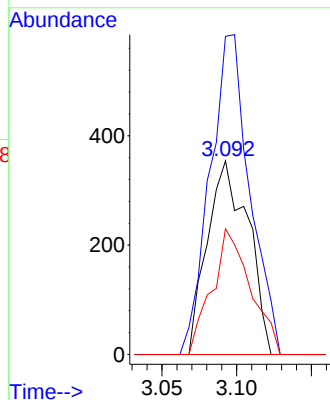
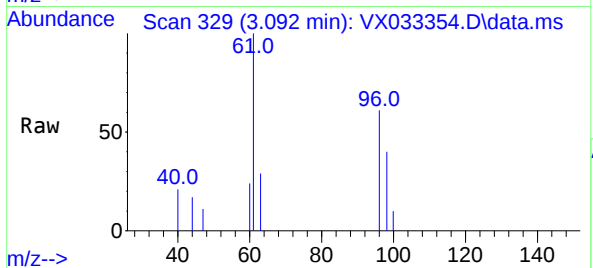




#21  
trans-1,2-Dichloroethene  
Concen: 0.454 ug/l  
RT: 3.092 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

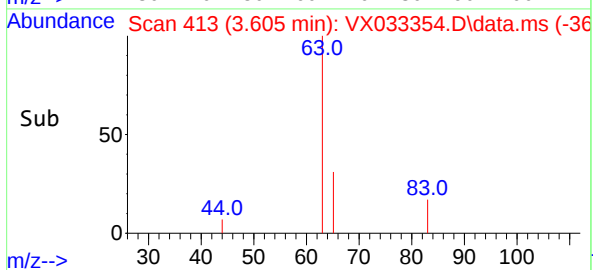
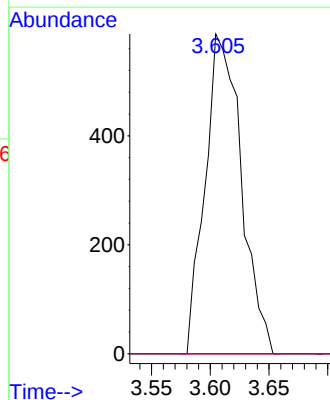
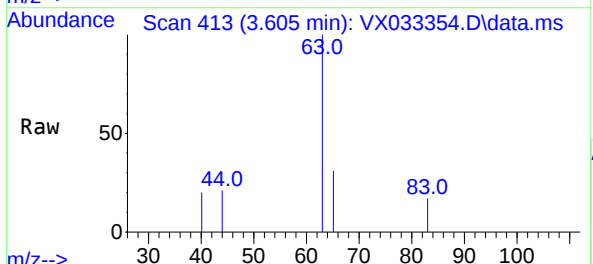
Instrument :  
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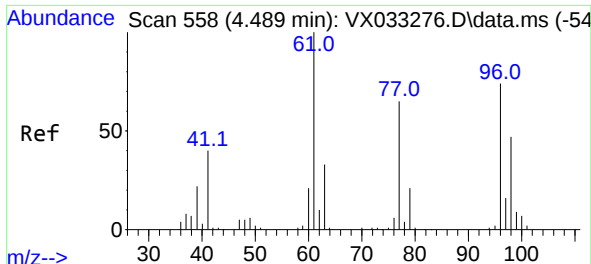
Tgt Ion: 96 Resp: 671  
Ion Ratio Lower Upper  
96 100  
61 164.4 106.6 160.0#  
98 65.0 51.0 76.6



#24  
1,1-Dichloroethane  
Concen: 0.463 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion: 63 Resp: 1257  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.5 10.4#  
100 0.0 2.3 6.8#



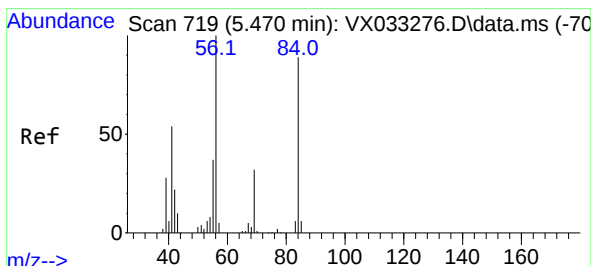
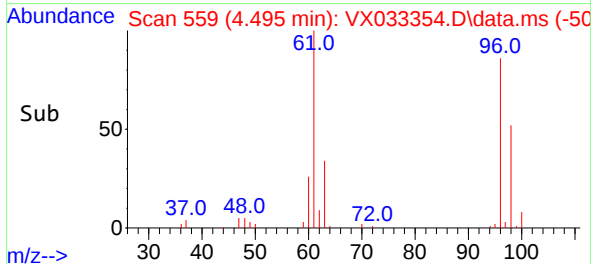
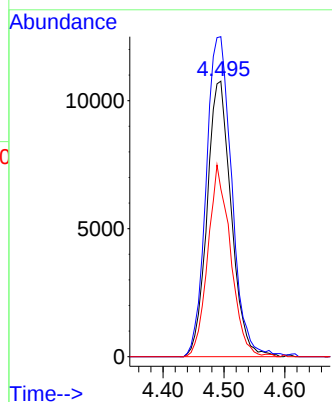
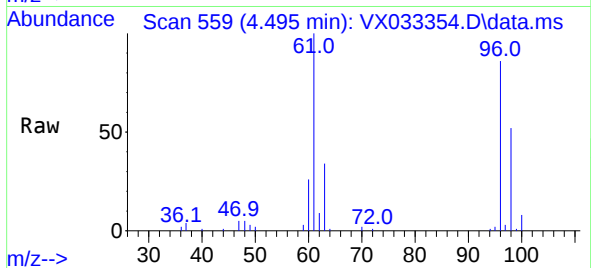


#27  
cis-1,2-Dichloroethene  
Concen: 16.801 ug/l  
RT: 4.495 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

Tgt Ion: 96 Resp: 29679

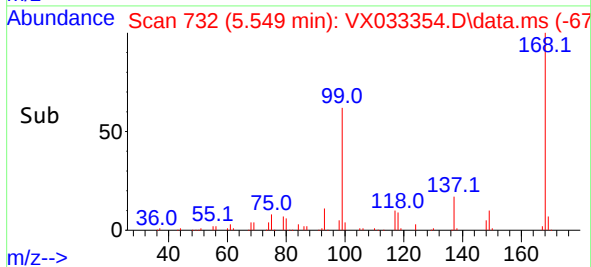
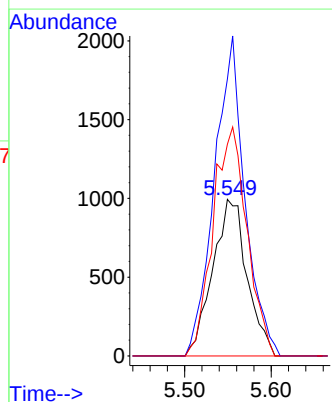
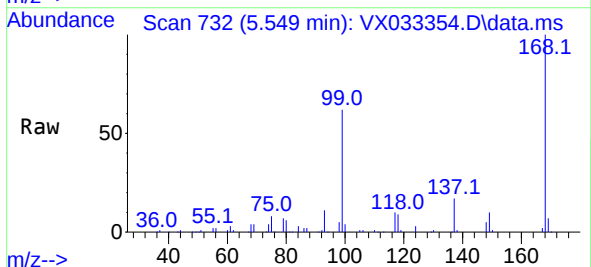
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 122.9 | 0.0   | 286.0 |
| 98  | 65.1  | 0.0   | 129.6 |

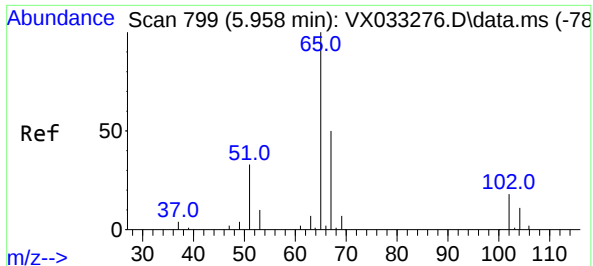


#31  
Cyclohexane  
Concen: 1.206 ug/l  
RT: 5.549 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion: 56 Resp: 2740

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 176.9 | 24.1  | 36.1#  |
| 84  | 135.2 | 66.9  | 100.3# |





#33

1,2-Dichloroethane-d4

Concen: 48.877 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

Instrument :

MSVOA\_X

ClientSampleId :

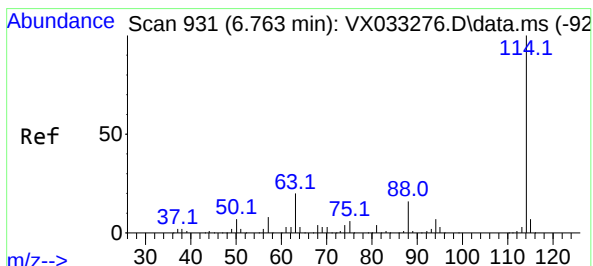
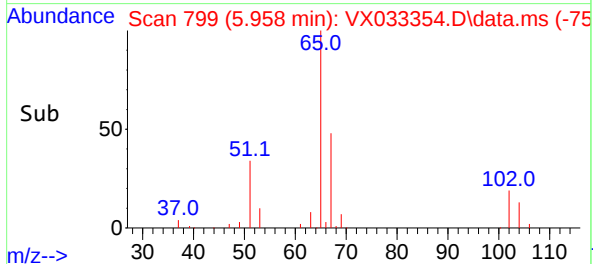
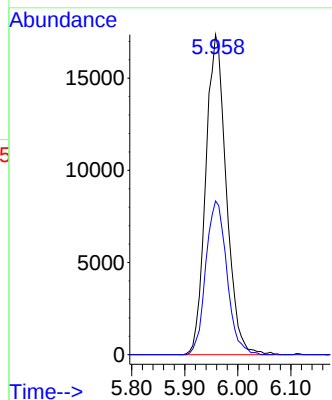
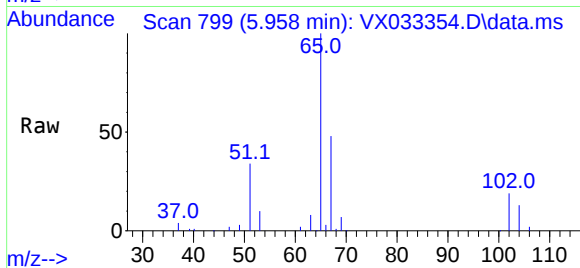
GW-BR-04-113-127-120822-FD

Tgt Ion: 65 Resp: 46734

Ion Ratio Lower Upper

65 100

67 49.3 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

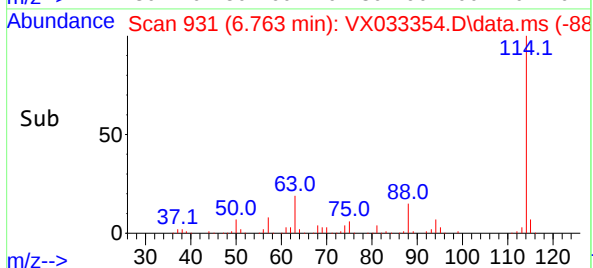
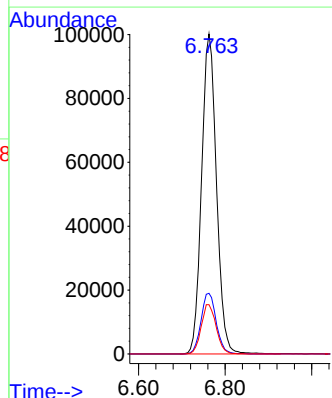
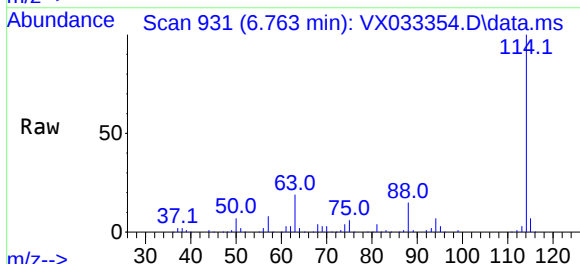
Tgt Ion: 114 Resp: 238773

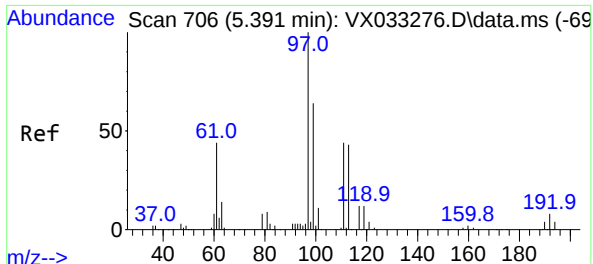
Ion Ratio Lower Upper

114 100

63 18.9 0.0 41.6

88 15.4 0.0 33.4

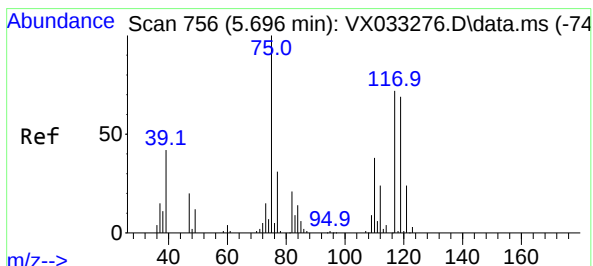
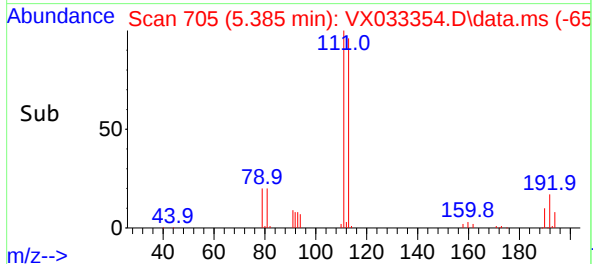
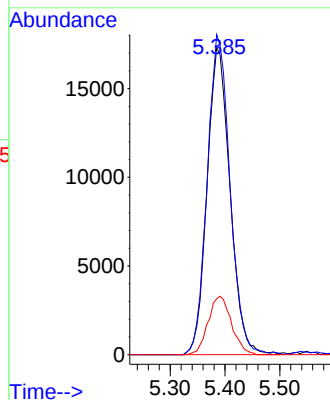
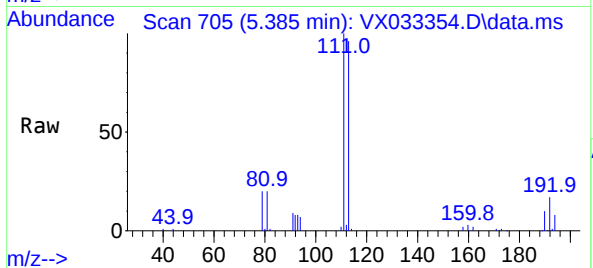




#35  
Dibromofluoromethane  
Concen: 46.837 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

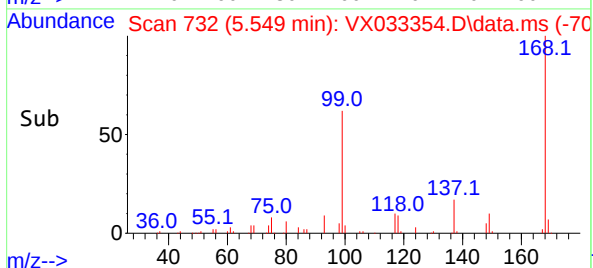
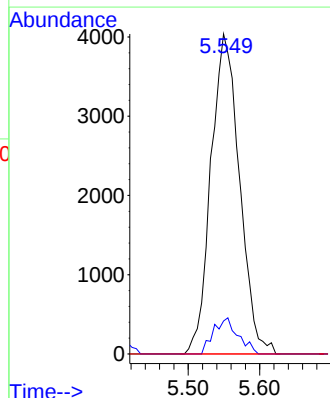
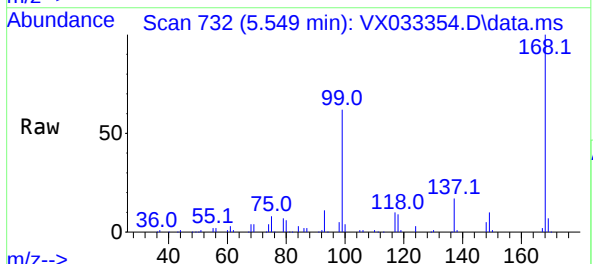
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

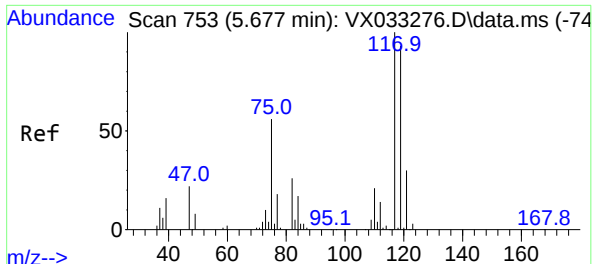
Tgt Ion:113 Resp: 50301  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.4 123.6  
192 19.4 15.4 23.2



#36  
1,1-Dichloropropene  
Concen: 5.359 ug/l  
RT: 5.549 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

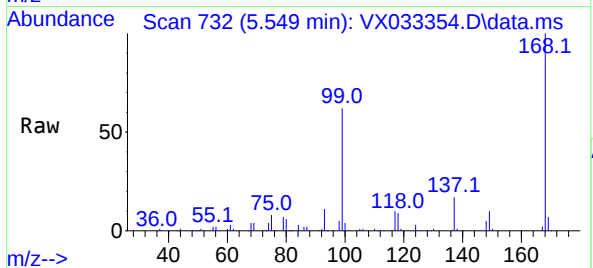
Tgt Ion: 75 Resp: 11220  
Ion Ratio Lower Upper  
75 100  
110 9.6 18.4 55.2#  
77 0.0 24.5 36.7#



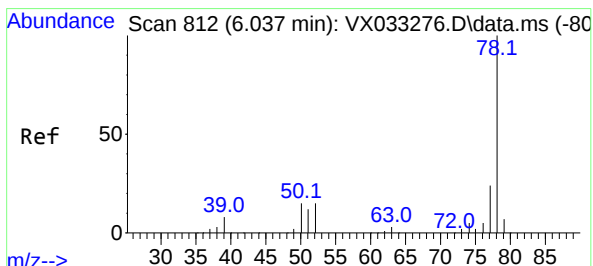
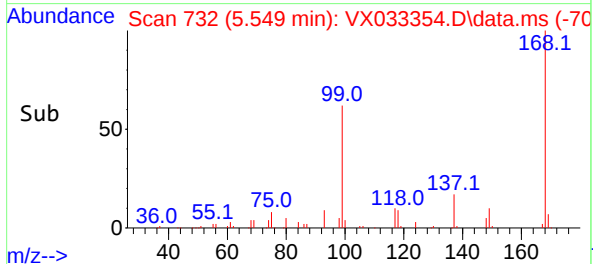
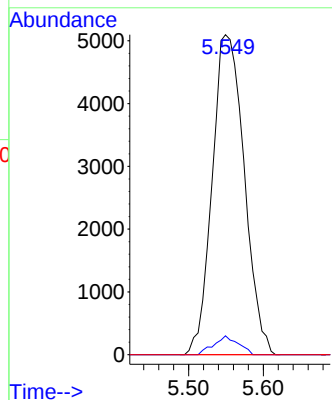


#38  
Carbon Tetrachloride  
Concen: 6.474 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

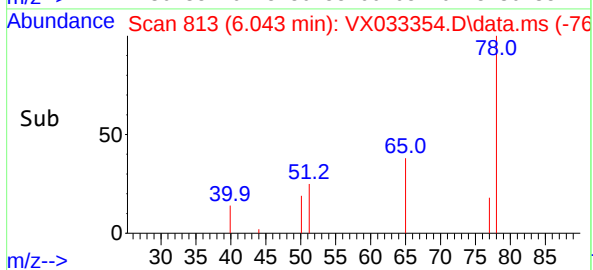
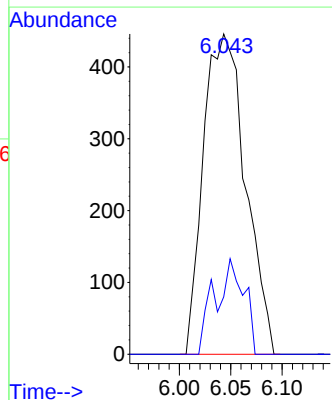
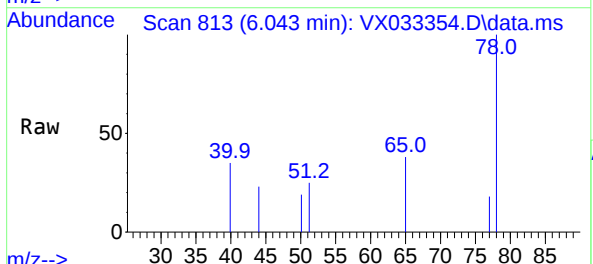


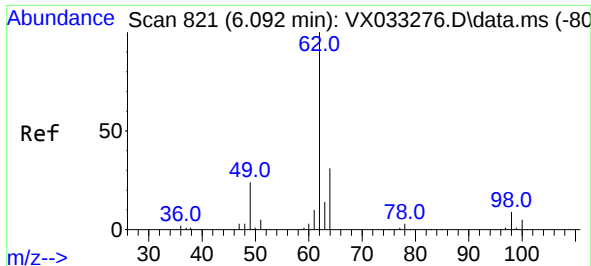
Tgt Ion:117 Resp: 15188  
Ion Ratio Lower Upper  
117 100  
119 5.9 77.2 115.8#  
121 0.0 25.8 38.6#



#40  
Benzene  
Concen: 0.208 ug/l  
RT: 6.043 min Scan# 813  
Delta R.T. 0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion: 78 Resp: 1268  
Ion Ratio Lower Upper  
78 100  
77 17.9 19.0 28.4#





#42

1,2-Dichloroethane

Concen: 0.252 ug/l

RT: 6.092 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

Instrument :

MSVOA\_X

ClientSampleId :

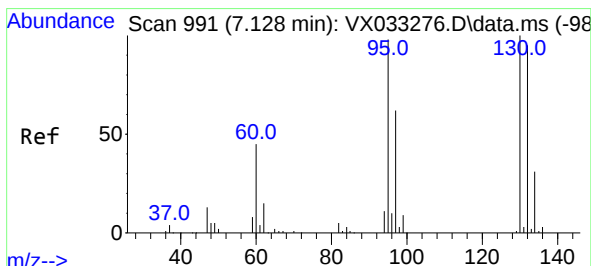
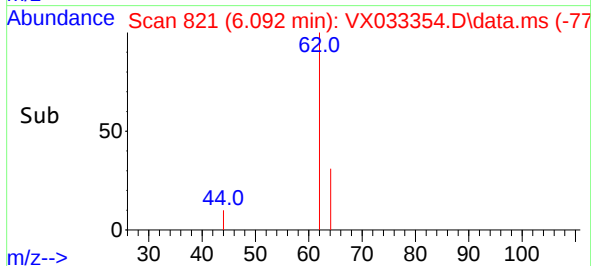
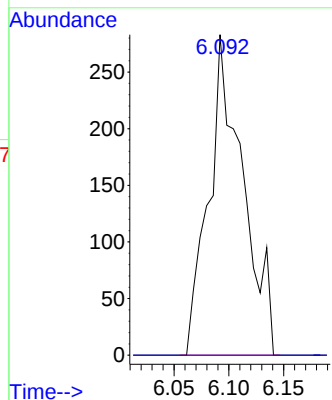
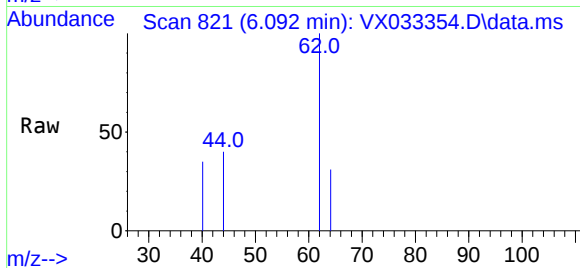
GW-BR-04-113-127-120822-FD

Tgt Ion: 62 Resp: 611

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



#44

Trichloroethene

Concen: 11.261 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX033354.D

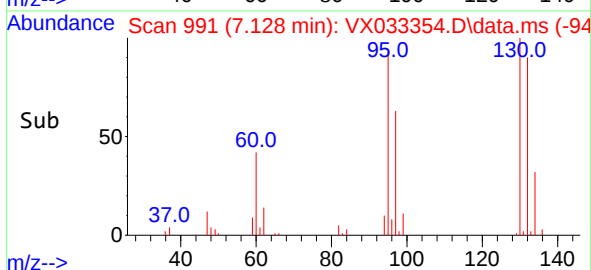
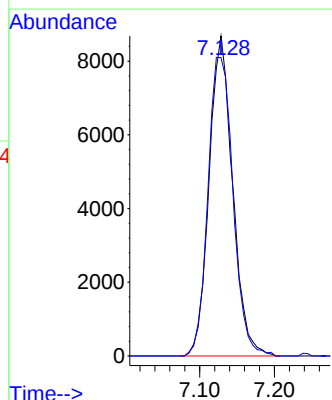
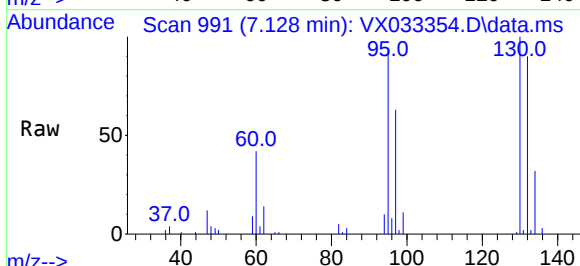
Acq: 09 Dec 2022 17:45

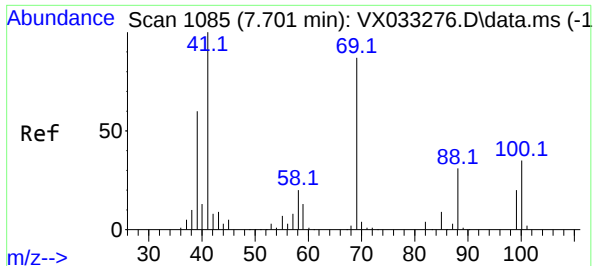
Tgt Ion:130 Resp: 18954

Ion Ratio Lower Upper

130 100

95 93.3 0.0 195.2

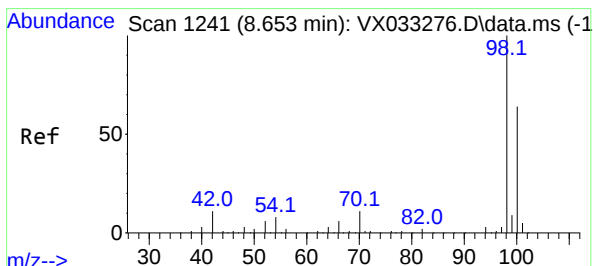
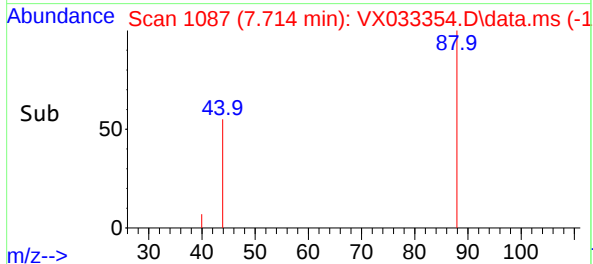
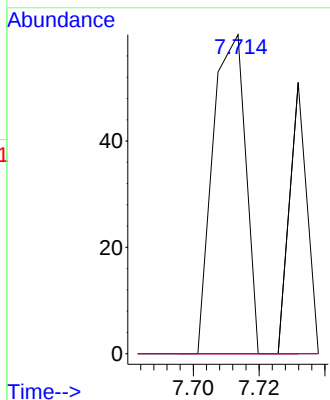
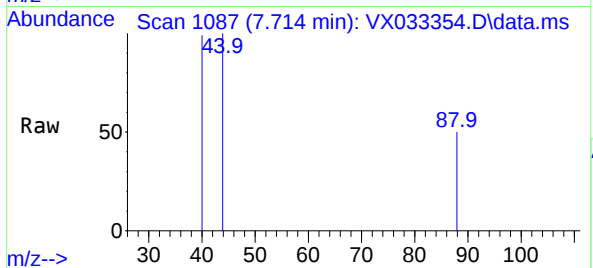




#49  
1,4-Dioxane  
Concen: 1.094 ug/l  
RT: 7.714 min Scan# 1085  
Delta R.T. 0.012 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

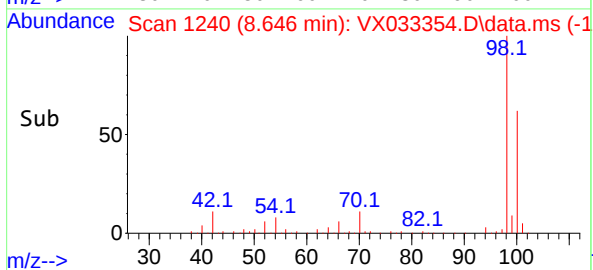
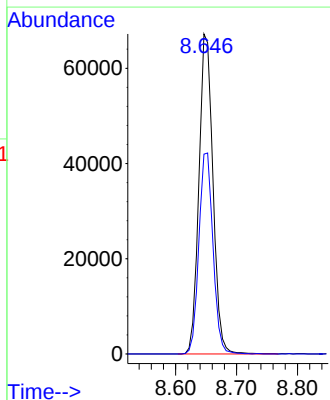
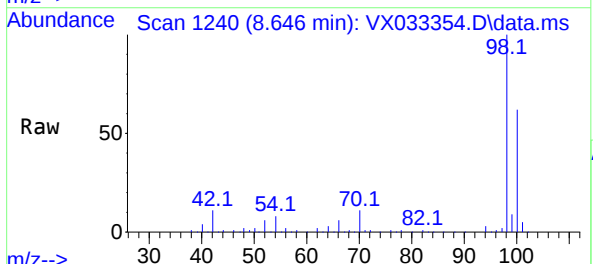
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

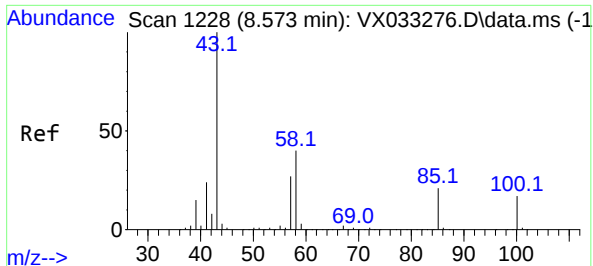
Tgt Ion: 88 Resp: 41  
Ion Ratio Lower Upper  
88 100  
43 0.0 26.6 39.8#  
58 0.0 51.7 77.5#



#50  
Toluene-d8  
Concen: 47.860 ug/l  
RT: 8.646 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion: 98 Resp: 107525  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.205 ug/l

RT: 8.646 min Scan# 11

Delta R.T. 0.073 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

Instrument :

MSVOA\_X

ClientSampleId :

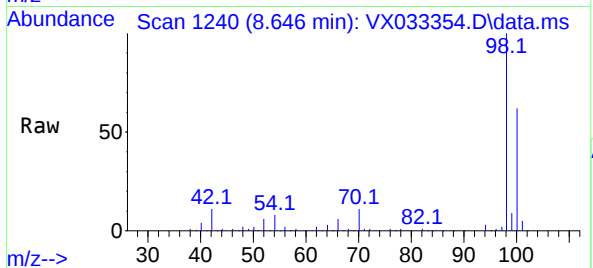
GW-BR-04-113-127-120822-FD

Tgt Ion: 43 Resp: 413

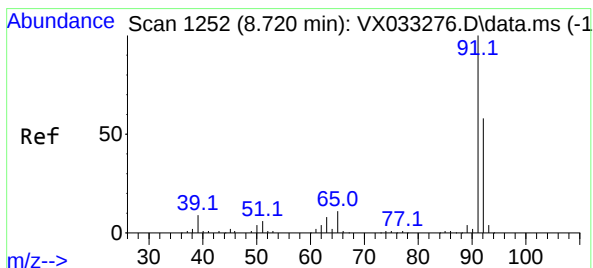
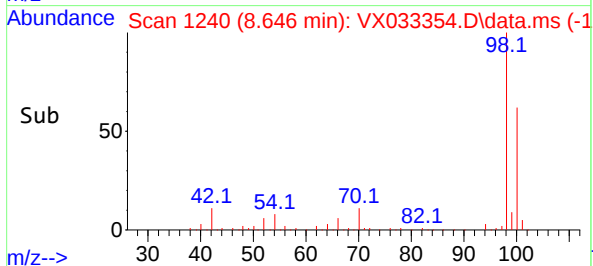
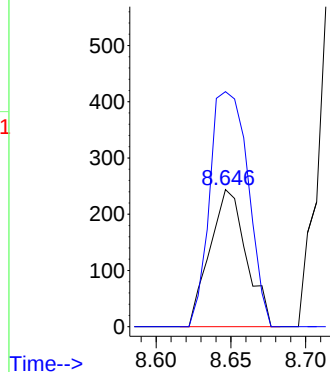
Ion Ratio Lower Upper

43 100

58 180.4 30.9 46.3#



Abundance



#52

Toluene

Concen: 22.721 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX033354.D

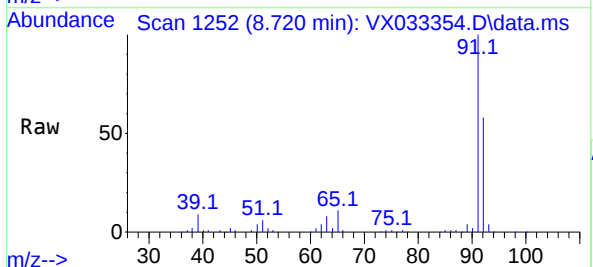
Acq: 09 Dec 2022 17:45

Tgt Ion: 92 Resp: 89684

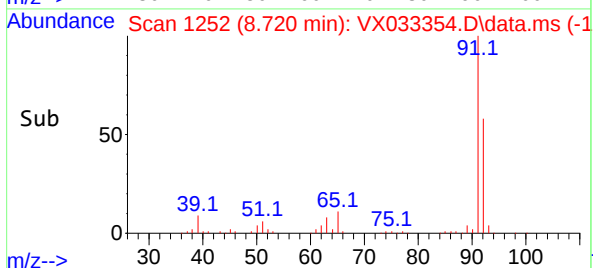
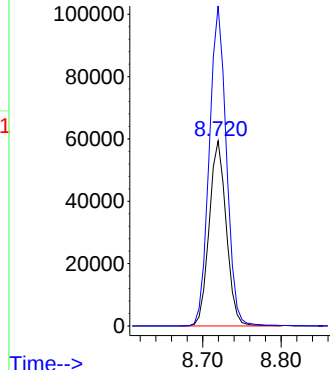
Ion Ratio Lower Upper

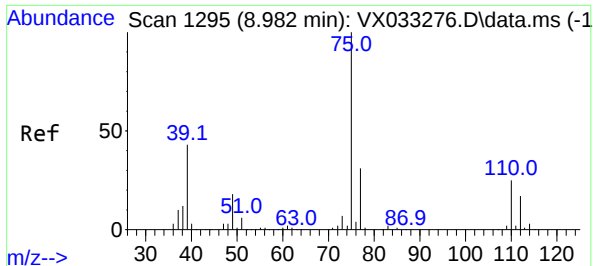
92 100

91 173.9 138.3 207.5



Abundance





#53

t-1,3-Dichloropropene

Concen: 2.941 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

Instrument :

MSVOA\_X

ClientSampleId :

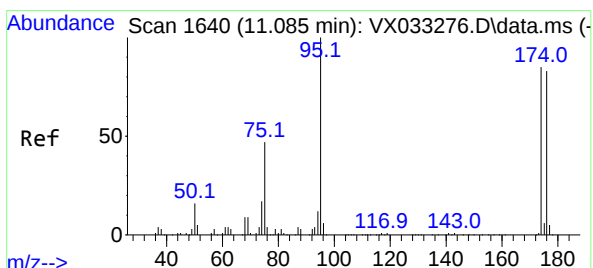
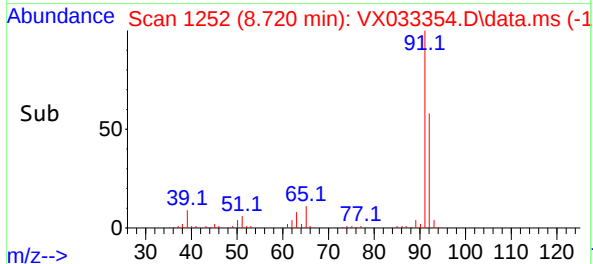
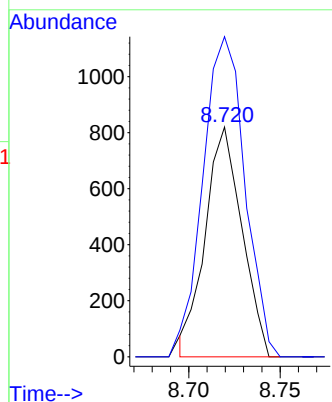
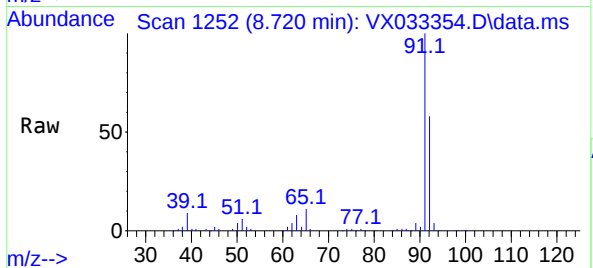
GW-BR-04-113-127-120822-FD

Tgt Ion: 75 Resp: 1143

Ion Ratio Lower Upper

75 100

77 139.4 25.1 37.7#



#62

4-Bromofluorobenzene

Concen: 47.871 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.006 min

Lab File: VX033354.D

Acq: 09 Dec 2022 17:45

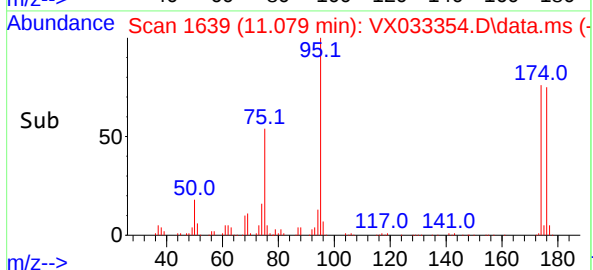
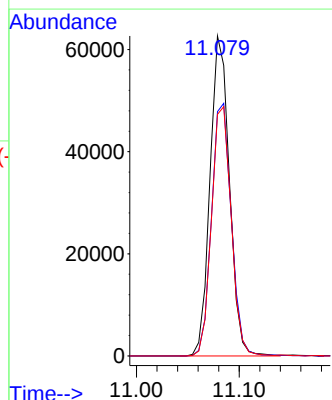
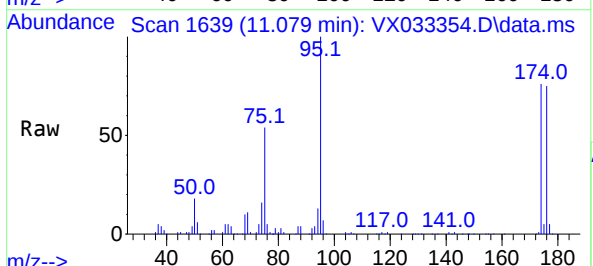
Tgt Ion: 95 Resp: 82234

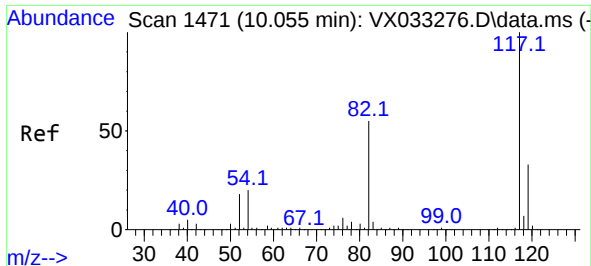
Ion Ratio Lower Upper

95 100

174 80.5 0.0 164.0

176 79.1 0.0 154.4

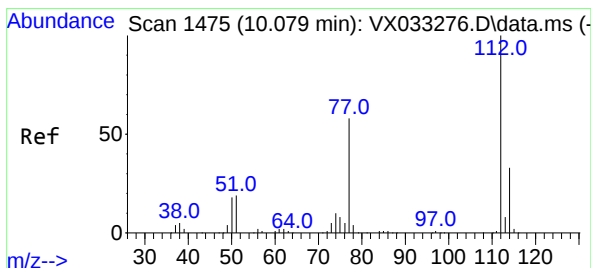
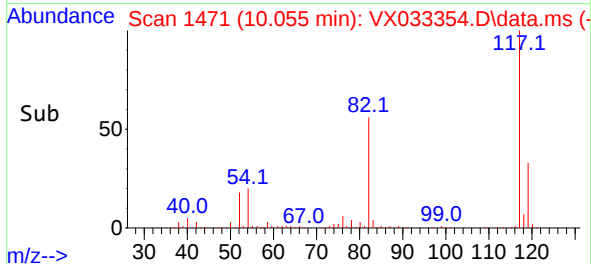
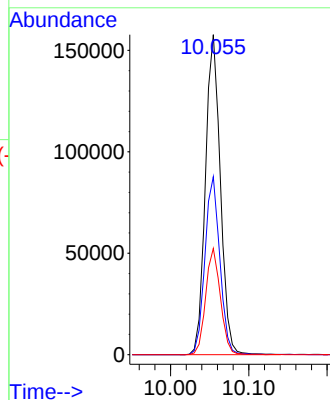
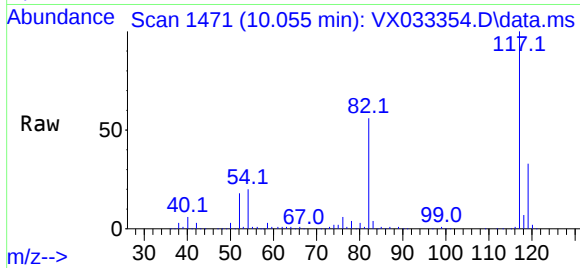




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

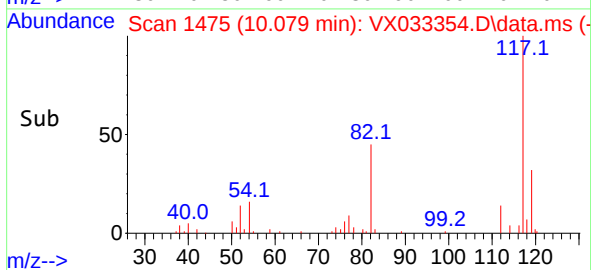
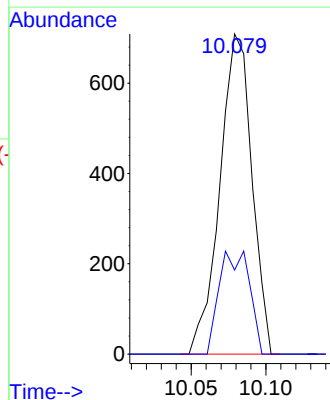
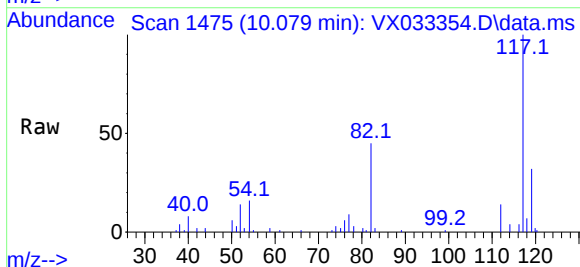
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

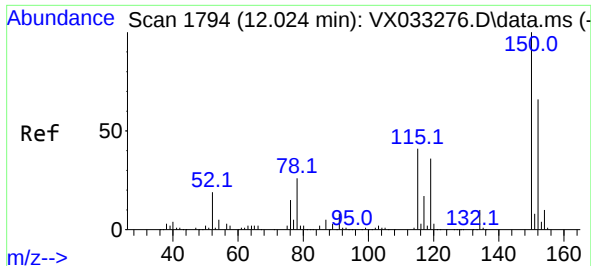
Tgt Ion:117 Resp: 208463  
Ion Ratio Lower Upper  
117 100  
82 55.6 44.3 66.5  
119 33.2 25.7 38.5



#65  
Chlorobenzene  
Concen: 0.250 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion:112 Resp: 1056  
Ion Ratio Lower Upper  
112 100  
114 26.2 25.4 38.2

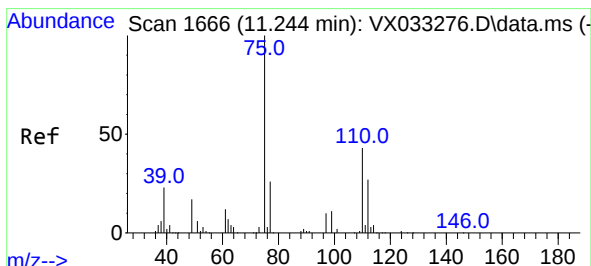
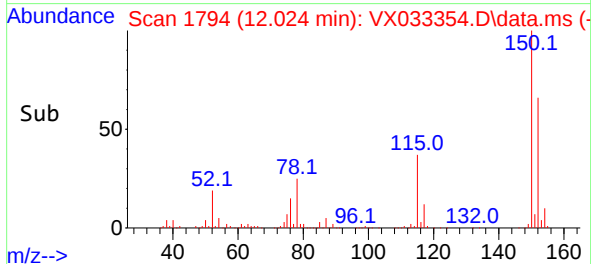
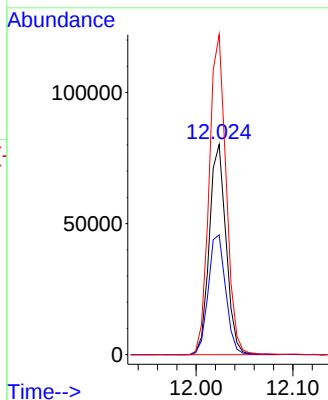
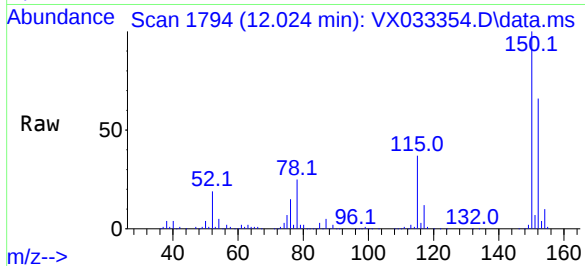




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

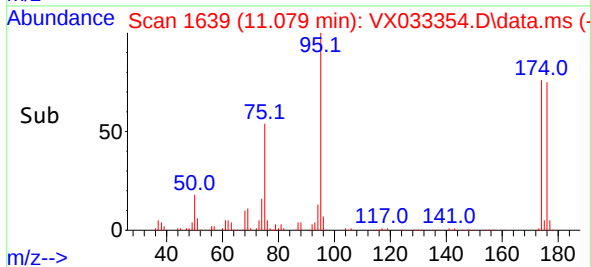
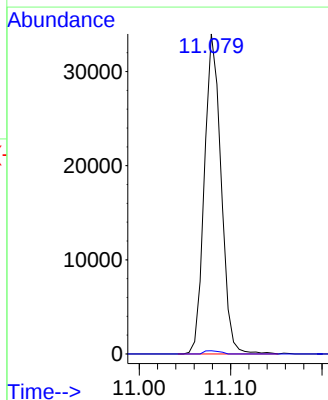
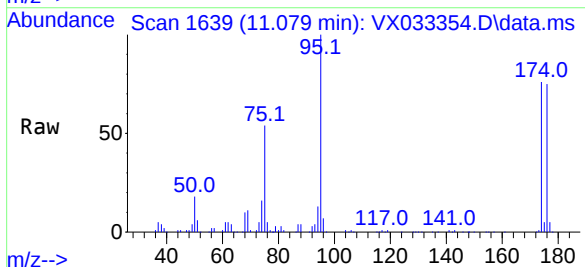
Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

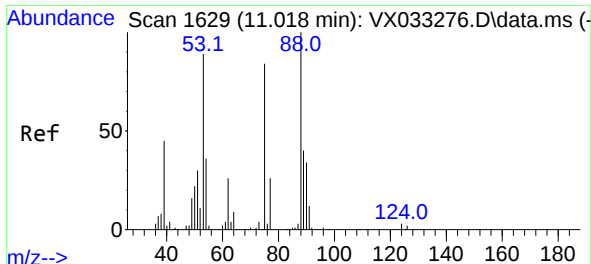
Tgt Ion:152 Resp: 96777  
Ion Ratio Lower Upper  
152 100  
115 59.6 44.0 132.0  
150 154.3 0.0 351.8



#76  
1,2,3-Trichloropropane  
Concen: 21.879 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion: 75 Resp: 43079  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 60.0#

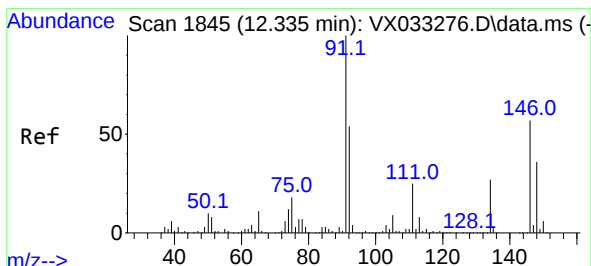
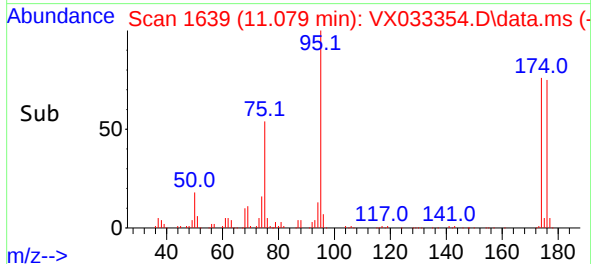
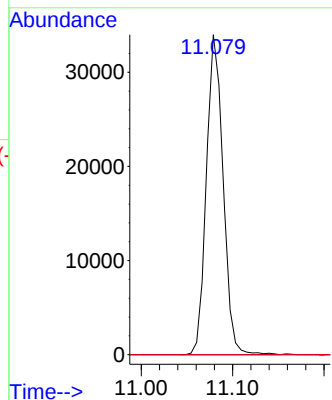
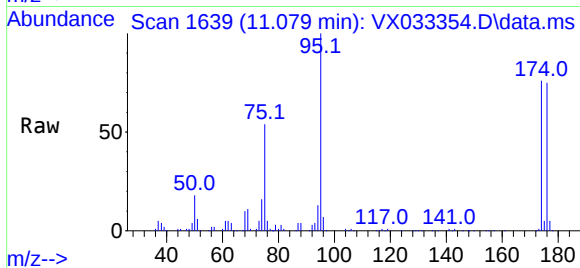




#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.059 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
GW-BR-04-113-127-120822-FD

Tgt Ion: 75 Resp: 43079  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.9 130.3#  
89 0.0 38.3 57.5#



#91  
1,2-Dichlorobenzene  
Concen: 0.327 ug/l  
RT: 12.341 min Scan# 1846  
Delta R.T. 0.006 min  
Lab File: VX033354.D  
Acq: 09 Dec 2022 17:45

Tgt Ion:146 Resp: 1049  
Ion Ratio Lower Upper  
146 100  
111 43.8 21.5 64.5  
148 62.5 32.0 96.2

