

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100324\  
 Data File : VX043268.D  
 Acq On : 03 Oct 2024 17:31  
 Operator : JC/MD  
 Sample : P4263-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 04 01:35:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

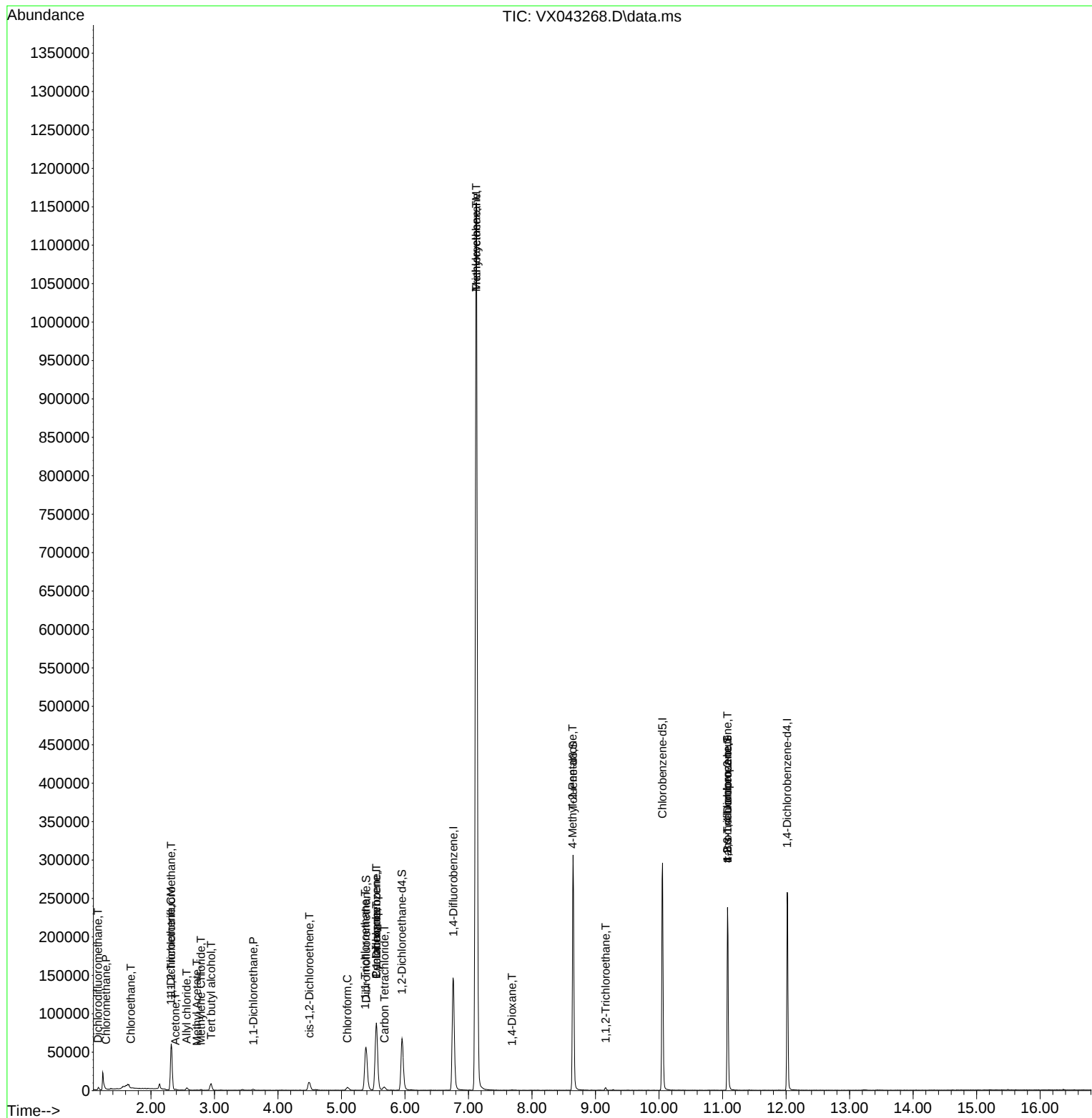
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550     | 168   | 78477    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 147686   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 132465   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018    | 152   | 53000    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952     | 65    | 68607    | 53.530   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery | = 107.060% |          |
| 35) Dibromofluoromethane      | 5.385     | 113   | 49897    | 48.991   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery | = 97.980%  |          |
| 50) Toluene-d8                | 8.647     | 98    | 179865   | 50.959   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery | = 101.920% |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 62997    | 49.129   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 77 - 121 | Recovery | = 98.260%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.166     | 85    | 1416     | 1.551    | ug/l       | 88       |
| 3) Chloromethane              | 1.295     | 50    | 192      | 0.204    | ug/l #     | 42       |
| 6) Chloroethane               | 1.685     | 64    | 290      | 0.827    | ug/l #     | 42       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319     | 101   | 20895    | 23.797   | ug/l       | 99       |
| 11) Tert butyl alcohol        | 2.947     | 59    | 5013     | 20.554   | ug/l #     | 71       |
| 12) 1,1-Dichloroethene        | 2.313     | 96    | 3678     | 4.218    | ug/l       | 96       |
| 14) Allyl chloride            | 2.563     | 41    | 460      | 0.321    | ug/l #     | 67       |
| 16) Acetone                   | 2.386     | 43    | 831      | 1.553    | ug/l #     | 87       |
| 18) Methyl Acetate            | 2.721     | 43    | 289      | 0.215    | ug/l #     | 51       |
| 20) Methylene Chloride        | 2.788     | 84    | 404      | 0.409    | ug/l #     | 83       |
| 24) 1,1-Dichloroethane        | 3.611     | 63    | 1714     | 1.021    | ug/l #     | 81       |
| 27) cis-1,2-Dichloroethene    | 4.495     | 96    | 6826     | 6.307    | ug/l       | 90       |
| 30) Chloroform                | 5.093     | 83    | 4355     | 2.363    | ug/l       | 89       |
| 31) Cyclohexane               | 5.550     | 56    | 1870     | 1.352    | ug/l #     | 23       |
| 32) 1,1,1-Trichloroethane     | 5.373     | 97    | 525      | 0.310    | ug/l #     | 51       |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 6749     | 5.245    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.678     | 117   | 3589     | 2.356    | ug/l       | 98       |
| 39) Methylcyclohexane         | 7.123     | 83    | 5524     | 3.413    | ug/l #     | 1        |
| 44) Trichloroethene           | 7.123     | 130   | 432316   | 417.810  | ug/l       | 94       |
| 49) 1,4-Dioxane               | 7.684     | 88    | 420      | 17.254   | ug/l #     | 65       |
| 51) 4-Methyl-2-Pentanone      | 8.641     | 43    | 877      | 0.566    | ug/l #     | 1        |
| 55) 1,1,2-Trichloroethane     | 9.159     | 97    | 1003     | 1.032    | ug/l       | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 34721    | 29.535   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 34721    | 76.544   | ug/l #     | 8        |
| -----                         |           |       |          |          |            |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100324\  
Data File : VX043268.D  
Acq On : 03 Oct 2024 17:31  
Operator : JC/MD  
Sample : P4263-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 04 01:35:47 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 16:50:57 2024  
Response via : Initial Calibration

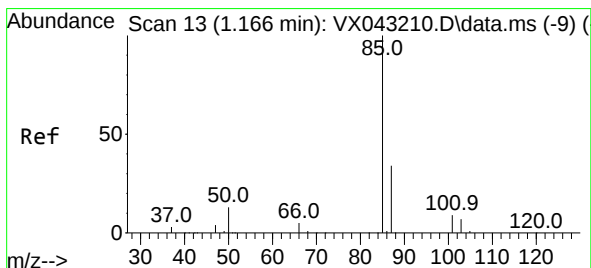
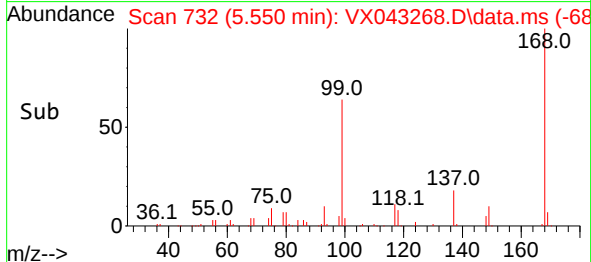
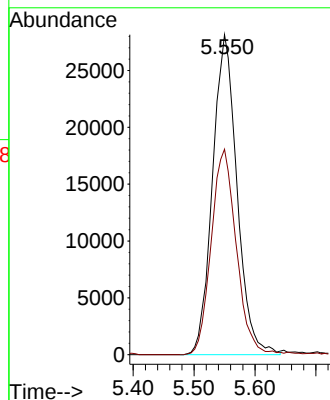
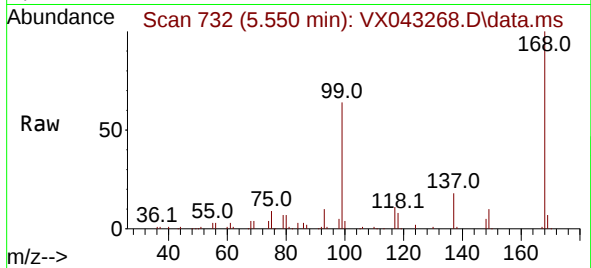




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

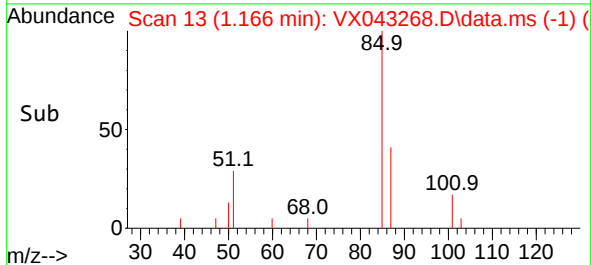
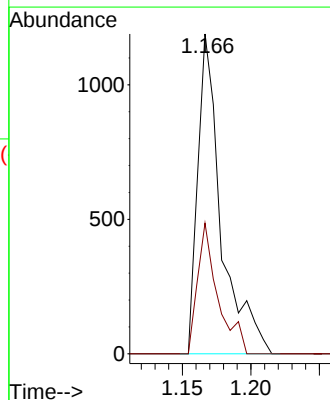
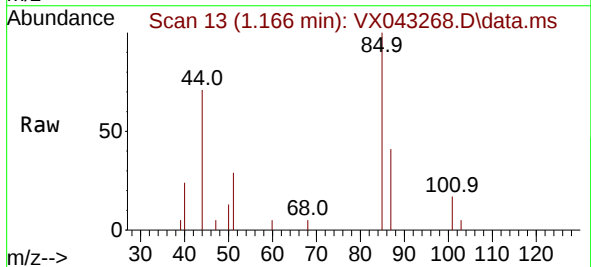
Instrument :  
MSVOA\_X  
ClientSampleId :

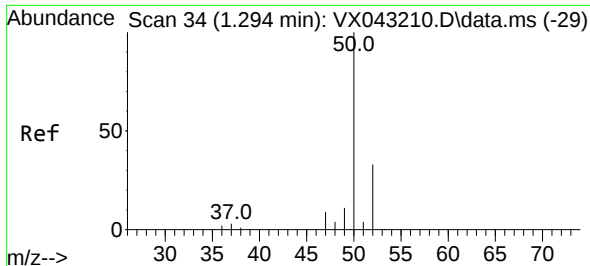
Tgt Ion:168 Resp: 78477  
Ion Ratio Lower Upper  
168 100  
99 64.2 49.7 74.5



#2  
Dichlorodifluoromethane  
Concen: 1.551 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 85 Resp: 1416  
Ion Ratio Lower Upper  
85 100  
87 40.9 17.1 51.2

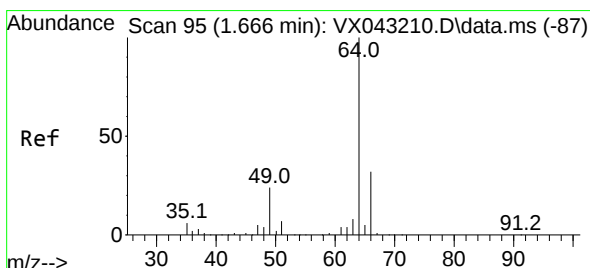
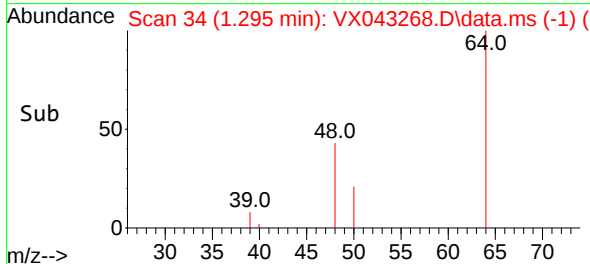
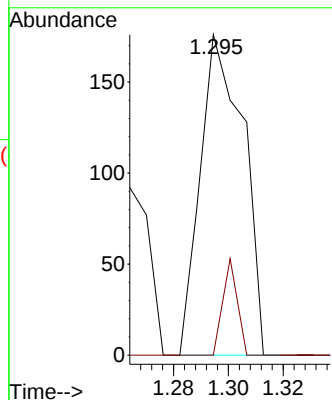
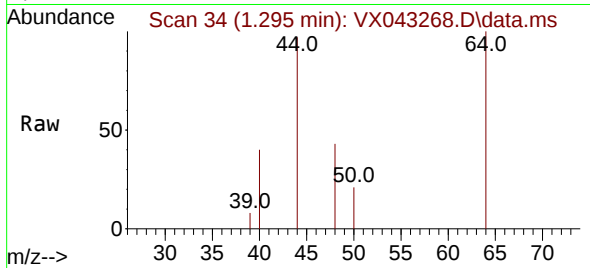




#3  
Chloromethane  
Concen: 0.204 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

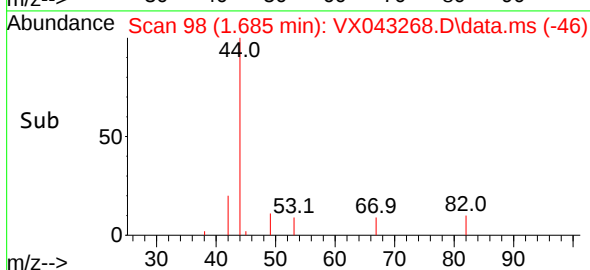
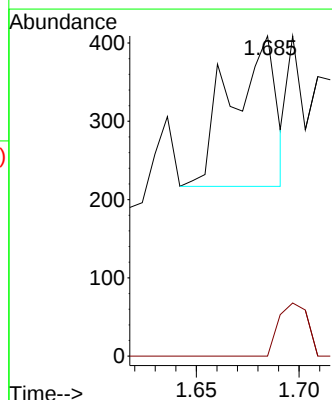
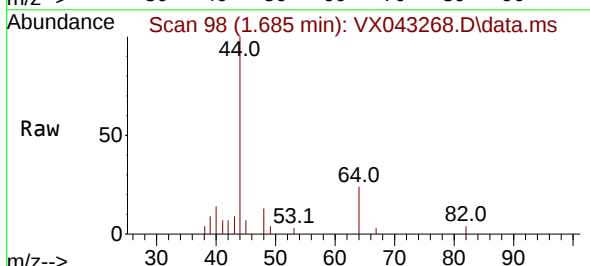
Instrument :  
MSVOA\_X  
ClientSampleId :

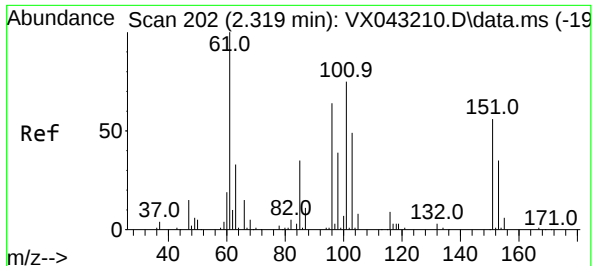
Tgt Ion: 50 Resp: 192  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.1 39.1#



#6  
Chloroethane  
Concen: 0.827 ug/l  
RT: 1.685 min Scan# 98  
Delta R.T. 0.018 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 64 Resp: 290  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.8 38.8#

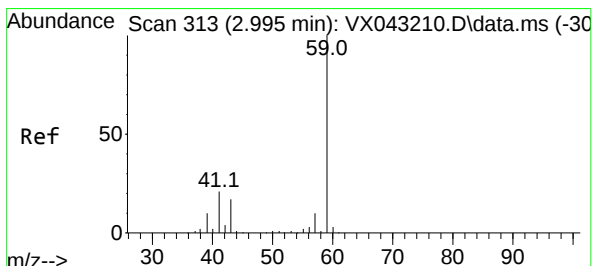
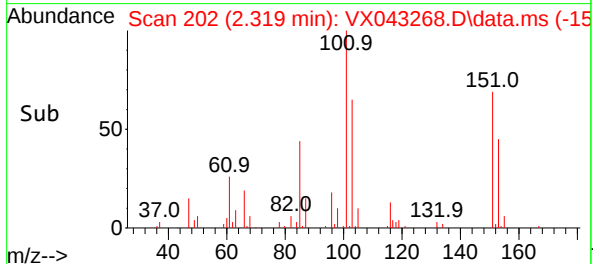
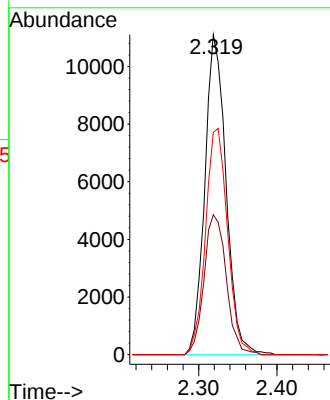
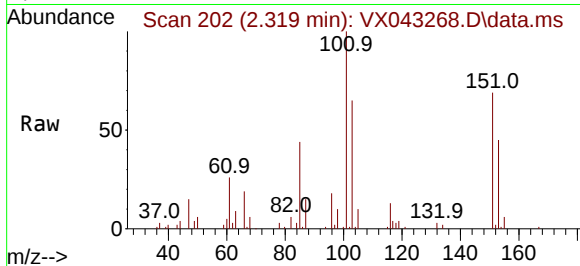




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 23.797 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

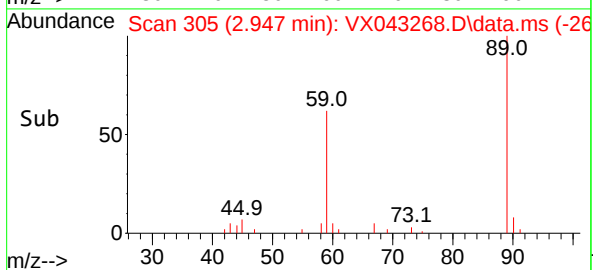
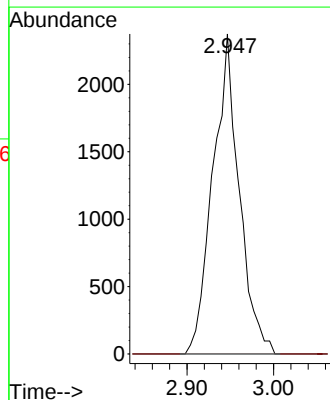
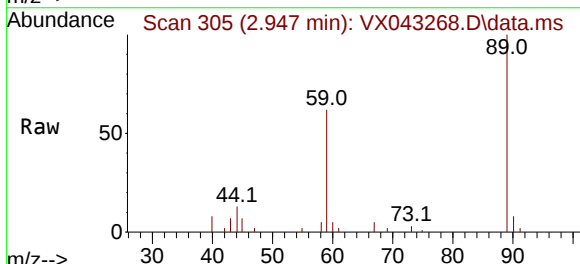
Instrument :  
MSVOA\_X  
ClientSampleId :

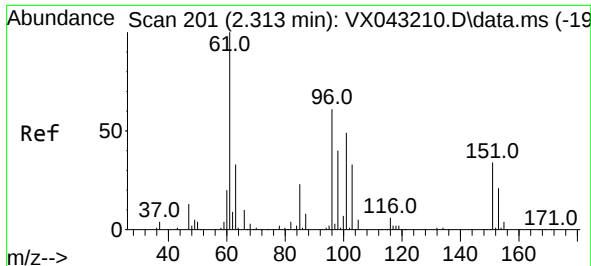
| Tgt Ion | 101   | Resp: | 20895 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 101     | 100   |       |       |
| 85      | 45.9  | 37.0  | 55.6  |
| 151     | 73.5  | 60.0  | 90.0  |



#11  
Tert butyl alcohol  
Concen: 20.554 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.049 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

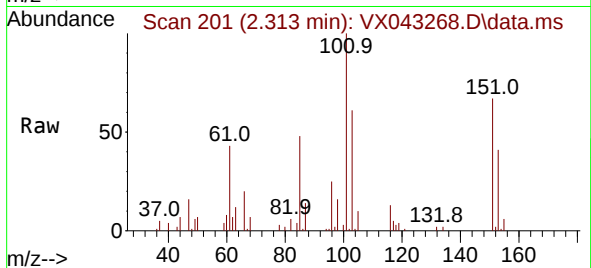
| Tgt Ion | 59    | Resp: | 5013  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 59      | 100   |       |       |
| 57      | 0.0   | 8.6   | 13.0  |





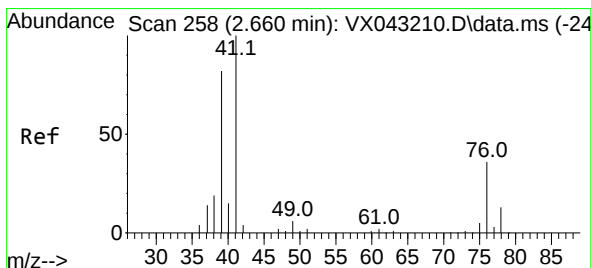
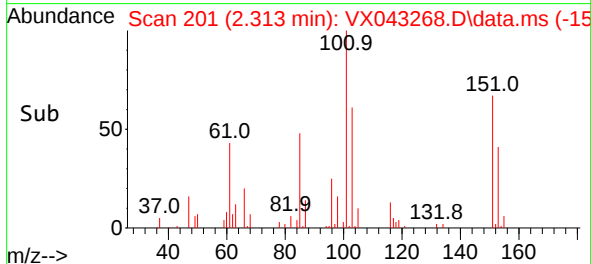
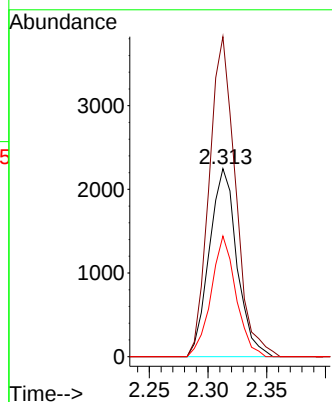
#12  
1,1-Dichloroethene  
Concen: 4.218 ug/l  
RT: 2.313 min Scan# 201  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 96 Resp: 3678

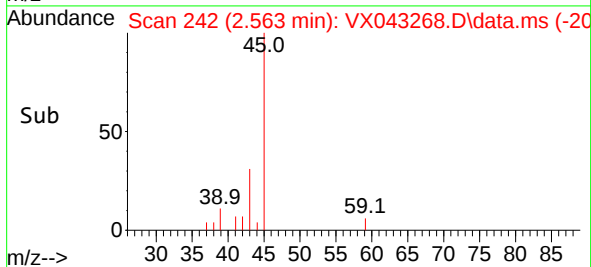
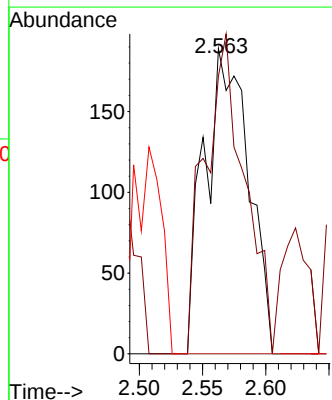
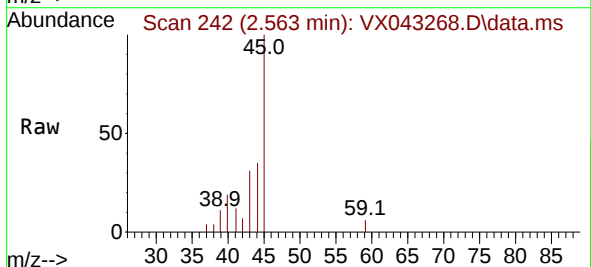
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 170.2 | 130.6 | 195.8 |
| 98  | 64.2  | 51.7  | 77.5  |

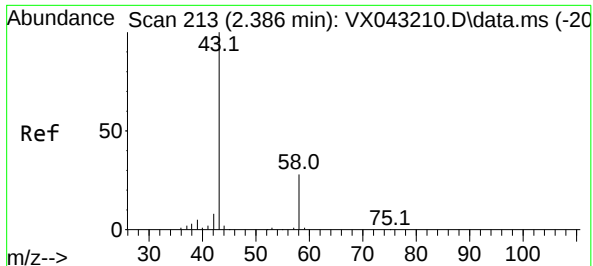


#14  
Allyl chloride  
Concen: 0.321 ug/l  
RT: 2.563 min Scan# 242  
Delta R.T. -0.098 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 41 Resp: 460

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 94.6  | 61.7  | 92.5# |
| 76  | 0.0   | 28.6  | 43.0# |

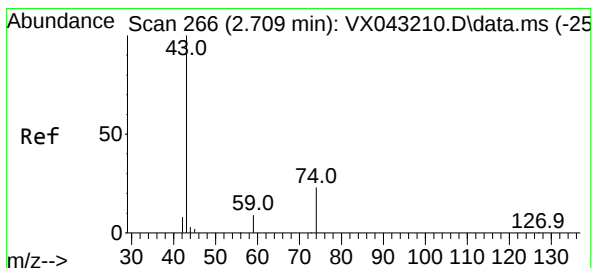
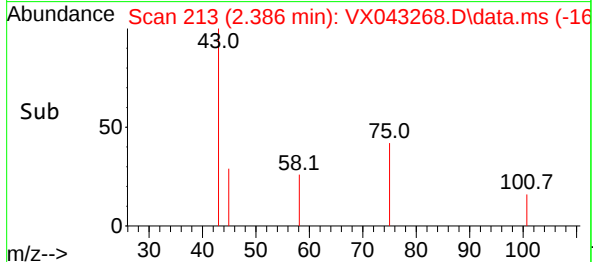
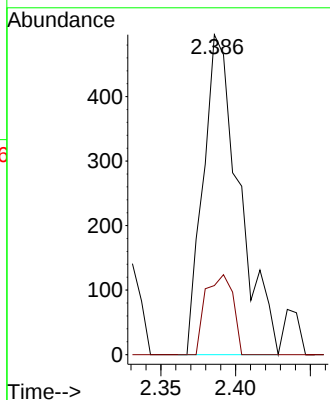
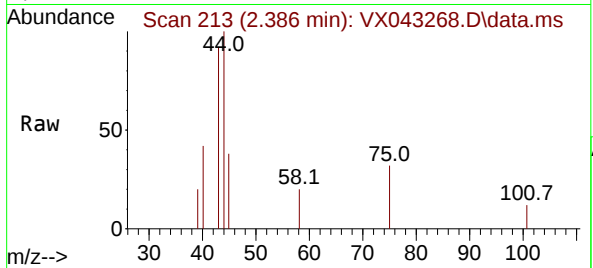




#16  
Acetone  
Concen: 1.553 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

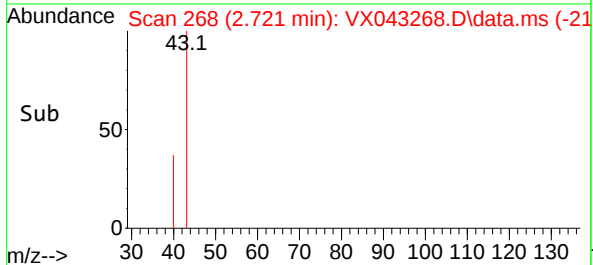
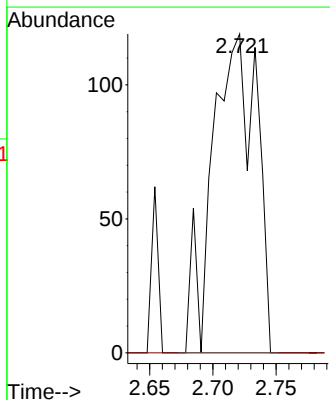
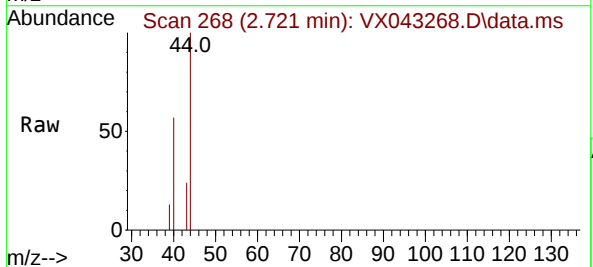
Instrument :  
MSVOA\_X  
ClientSampleId :

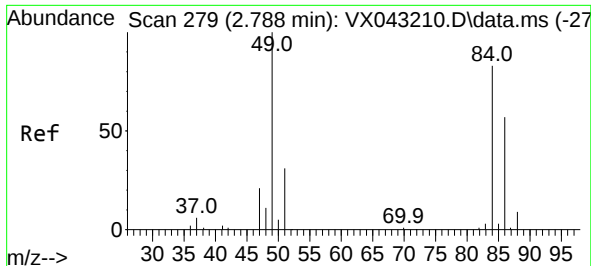
Tgt Ion: 43 Resp: 831  
Ion Ratio Lower Upper  
43 100  
58 21.6 22.6 33.8#



#18  
Methyl Acetate  
Concen: 0.215 ug/l  
RT: 2.721 min Scan# 268  
Delta R.T. 0.012 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 43 Resp: 289  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.1 28.7#





#20

Methylene Chloride

Concen: 0.409 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

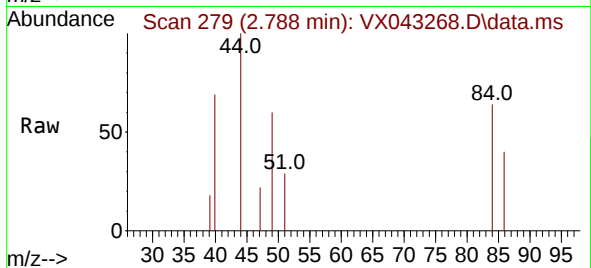
Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 404

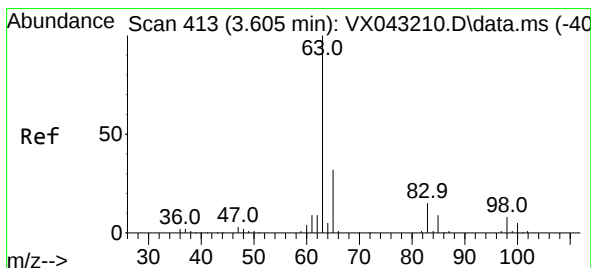
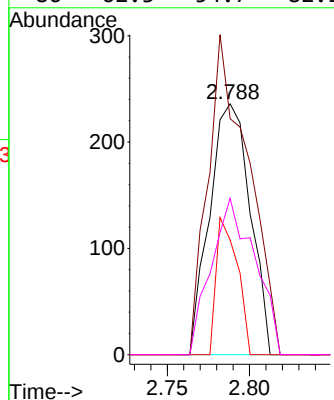
Ion Ratio Lower Upper

84 100

49 94.1 96.7 145.1#

51 45.8 30.4 45.6#

86 62.3 54.7 82.1



#24

1,1-Dichloroethane

Concen: 1.021 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

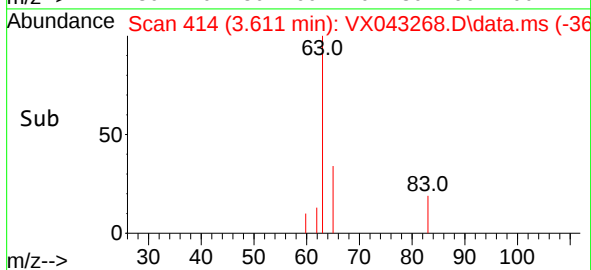
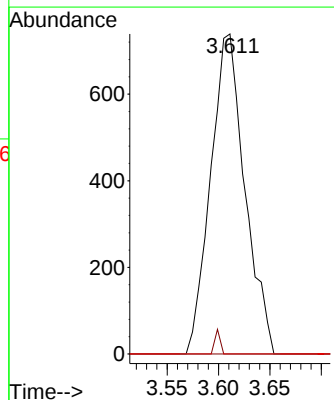
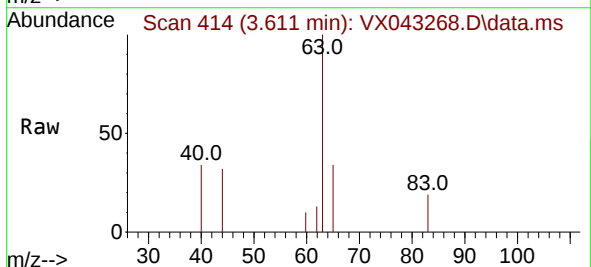
Tgt Ion: 63 Resp: 1714

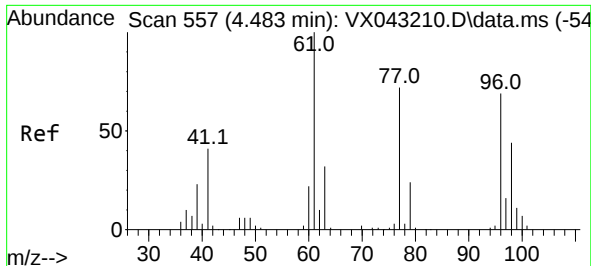
Ion Ratio Lower Upper

63 100

98 0.0 3.8 11.2#

100 0.0 2.5 7.4#

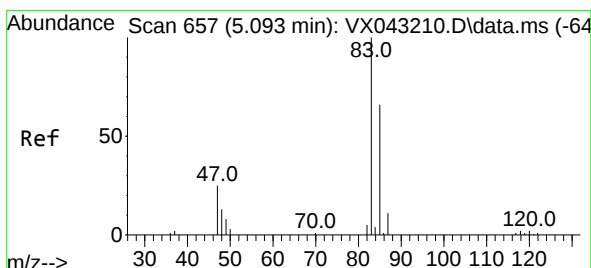
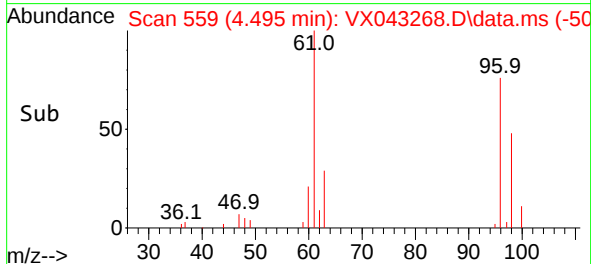
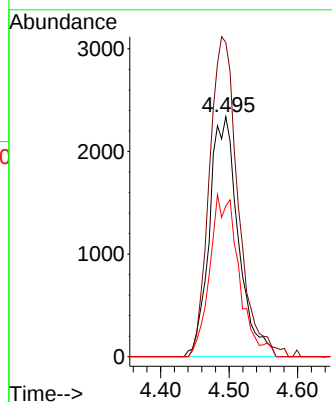
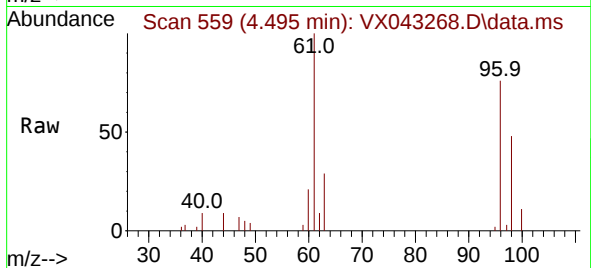




#27  
 cis-1,2-Dichloroethene  
 Concen: 6.307 ug/l  
 RT: 4.495 min Scan# 51  
 Delta R.T. 0.012 min  
 Lab File: VX043268.D  
 Acq: 03 Oct 2024 17:31

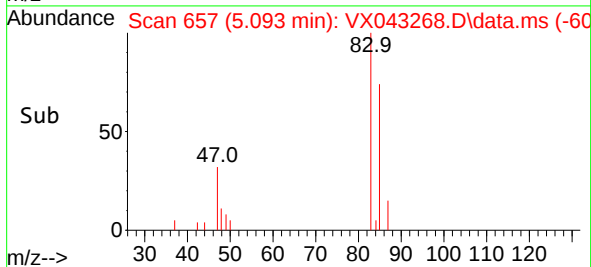
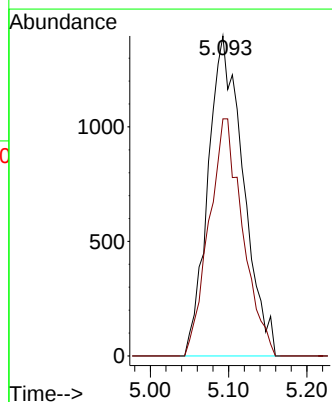
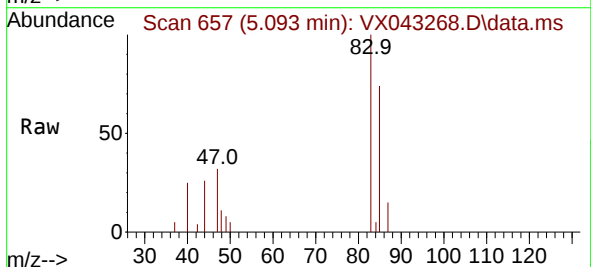
Instrument :  
 MSVOA\_X  
 ClientSampleId :

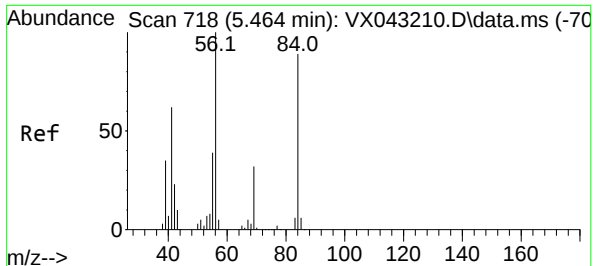
Tgt Ion: 96 Resp: 6826  
 Ion Ratio Lower Upper  
 96 100  
 61 133.1 0.0 298.2  
 98 68.2 0.0 128.6



#30  
 Chloroform  
 Concen: 2.363 ug/l  
 RT: 5.093 min Scan# 657  
 Delta R.T. 0.000 min  
 Lab File: VX043268.D  
 Acq: 03 Oct 2024 17:31

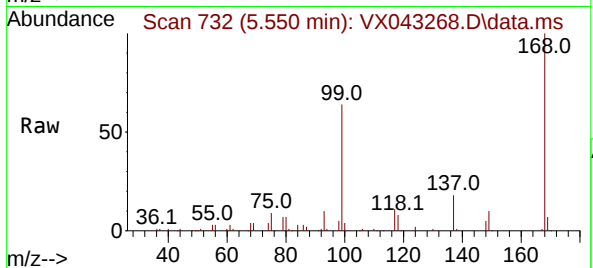
Tgt Ion: 83 Resp: 4355  
 Ion Ratio Lower Upper  
 83 100  
 85 74.1 52.5 78.7



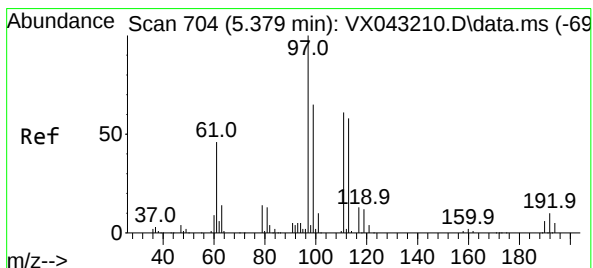
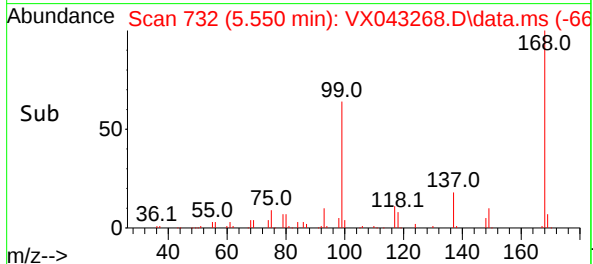
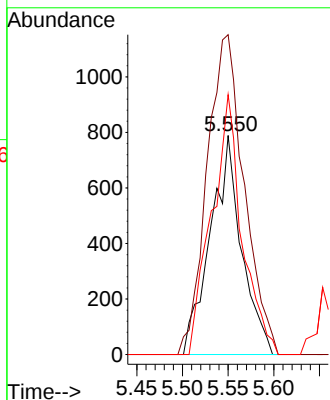


#31  
Cyclohexane  
Concen: 1.352 ug/l  
RT: 5.550 min Scan# 718  
Delta R.T. 0.085 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Instrument :  
MSVOA\_X  
ClientSampleId :

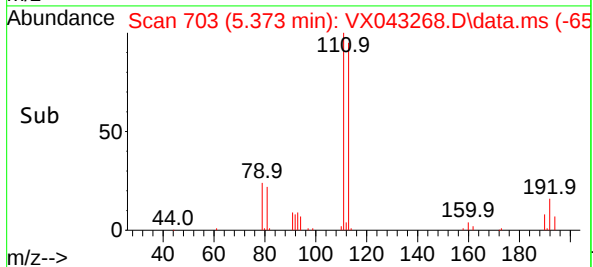
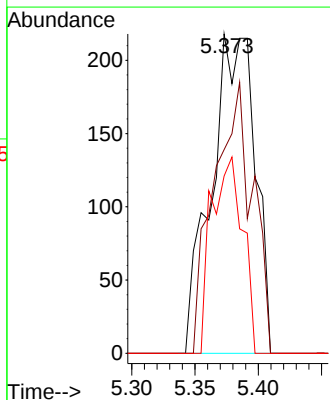
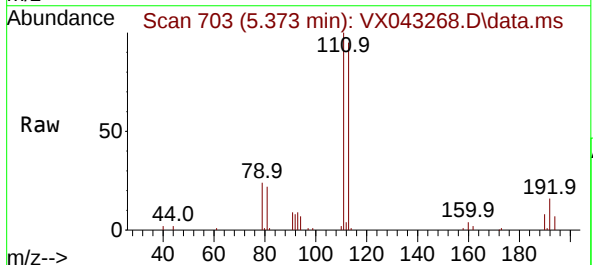


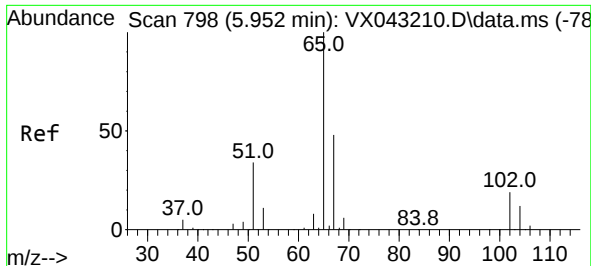
Tgt Ion: 56 Resp: 1870  
Ion Ratio Lower Upper  
56 100  
69 146.0 25.8 38.6#  
84 118.6 71.1 106.7#



#32  
1,1,1-Trichloroethane  
Concen: 0.310 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.006 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 97 Resp: 525  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.2 76.8#  
61 43.8 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 53.530 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

Instrument :

MSVOA\_X

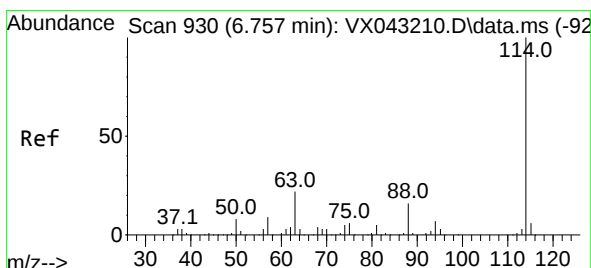
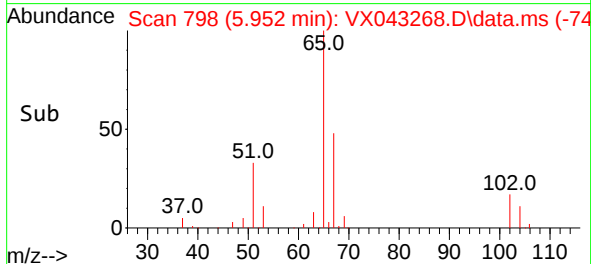
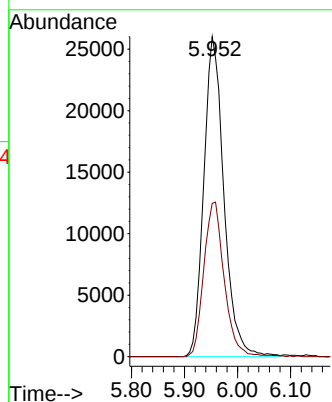
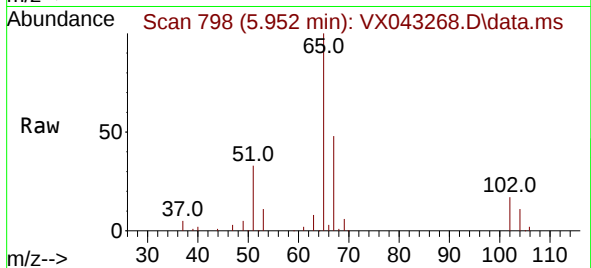
ClientSampleId :

Tgt Ion: 65 Resp: 68607

Ion Ratio Lower Upper

65 100

67 49.1 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

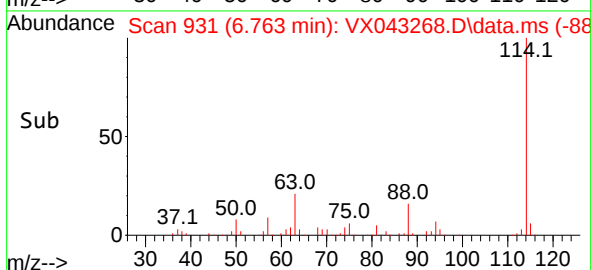
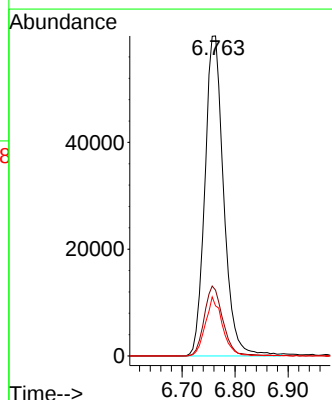
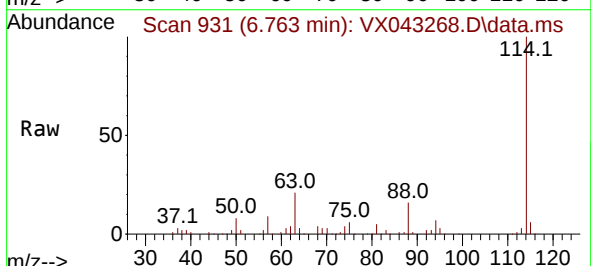
Tgt Ion: 114 Resp: 147686

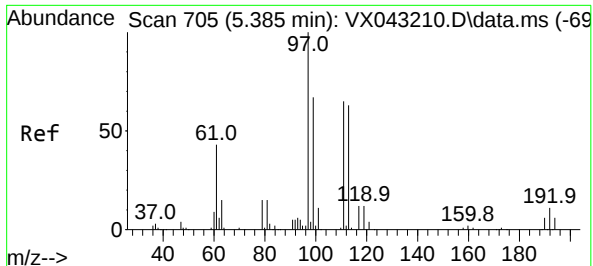
Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.0

88 15.7 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.991 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

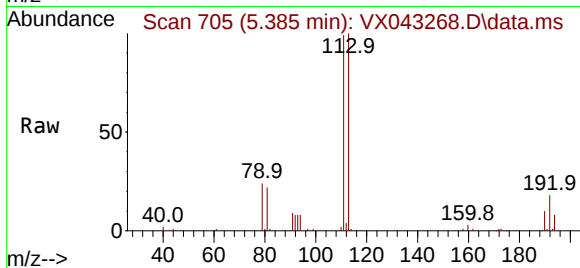
Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

Instrument :

MSVOA\_X

ClientSampleId :



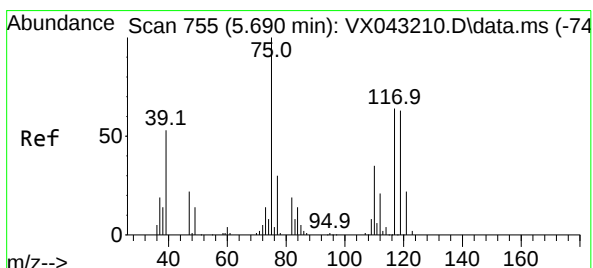
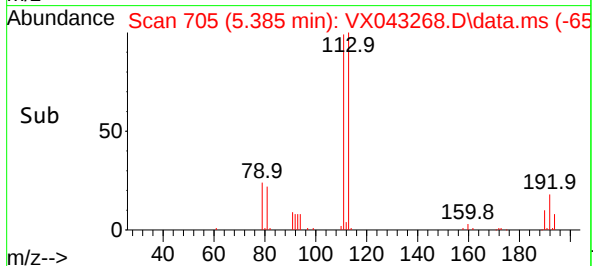
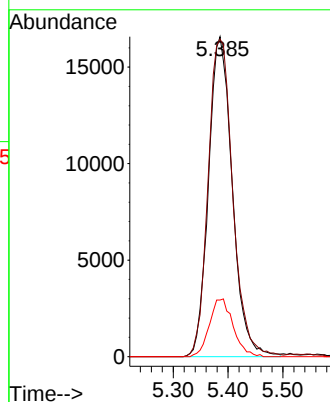
Tgt Ion:113 Resp: 49897

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

192 18.0 14.1 21.1



#36

1,1-Dichloropropene

Concen: 5.245 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

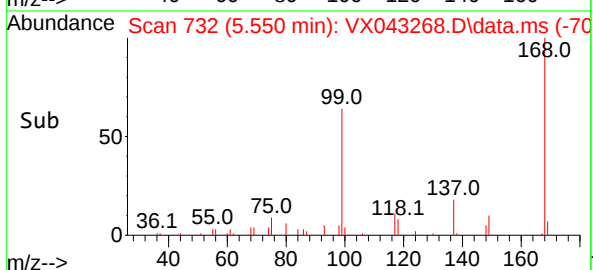
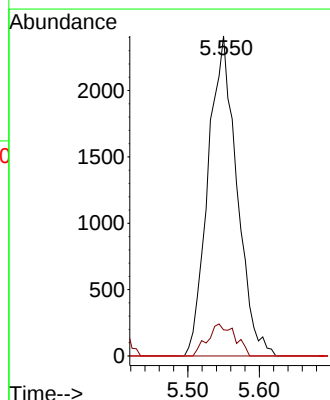
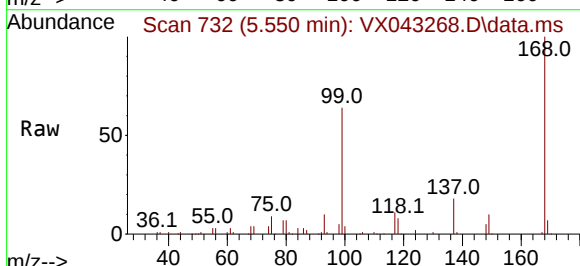
Tgt Ion: 75 Resp: 6749

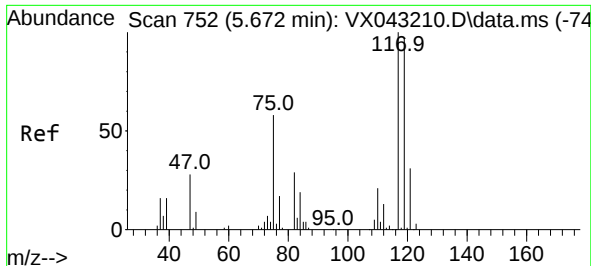
Ion Ratio Lower Upper

75 100

110 9.5 17.8 53.3#

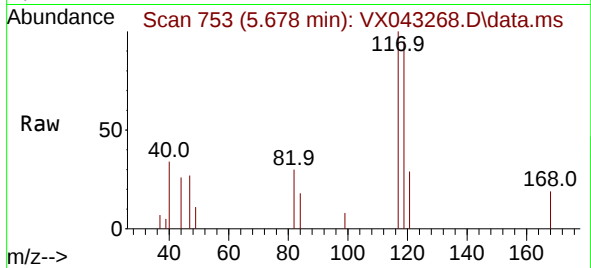
77 0.0 24.9 37.3#



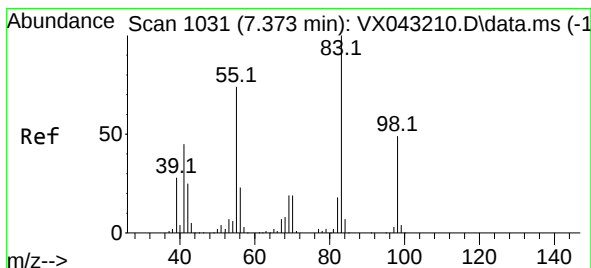
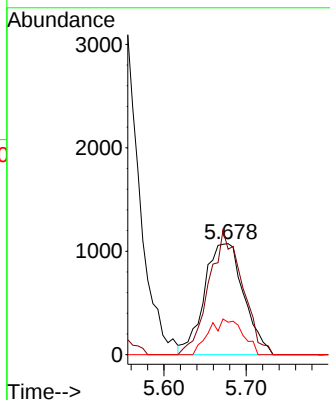
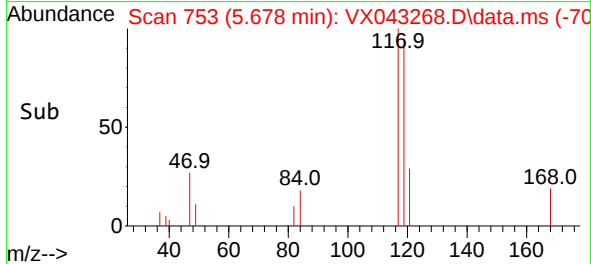


#38  
Carbon Tetrachloride  
Concen: 2.356 ug/l  
RT: 5.678 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Instrument :  
MSVOA\_X  
ClientSampleId :

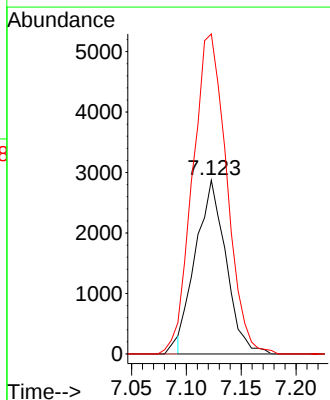
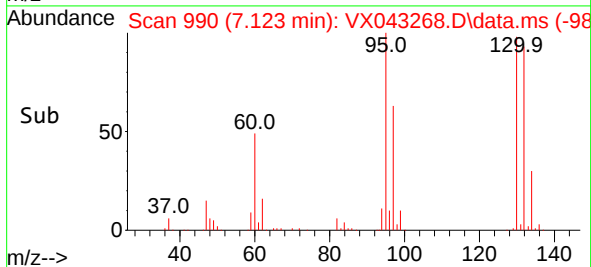
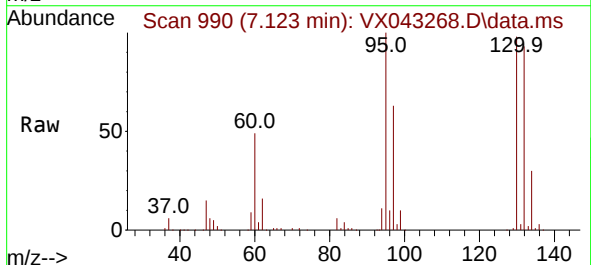


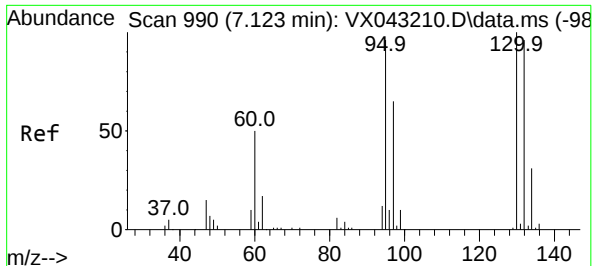
Tgt Ion:117 Resp: 3589  
Ion Ratio Lower Upper  
117 100  
119 95.0 77.7 116.5  
121 29.2 24.3 36.5



#39  
Methylcyclohexane  
Concen: 3.413 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.250 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 83 Resp: 5524  
Ion Ratio Lower Upper  
83 100  
55 0.0 59.4 89.2#  
98 184.2 39.3 58.9#

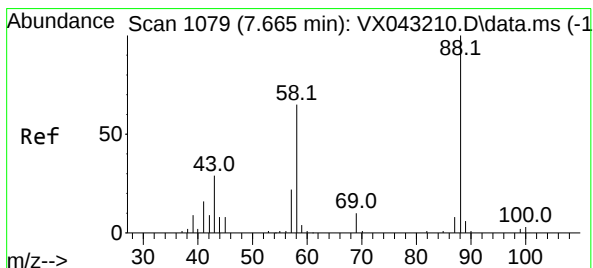
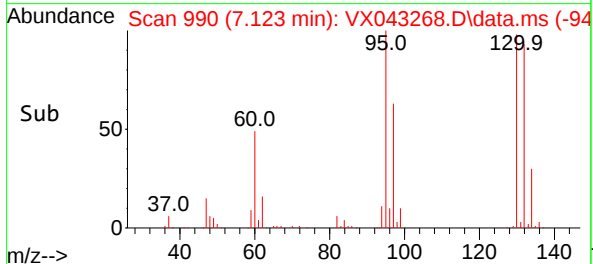
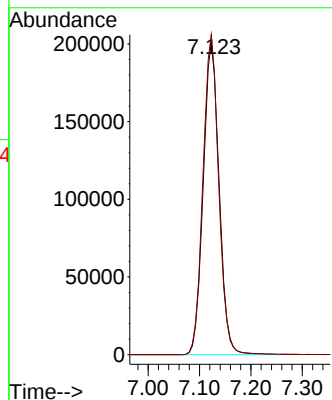
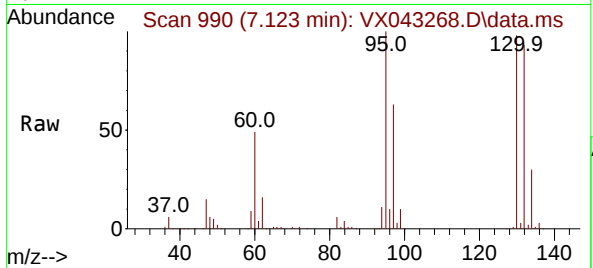




#44  
Trichloroethene  
Concen: 417.810 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

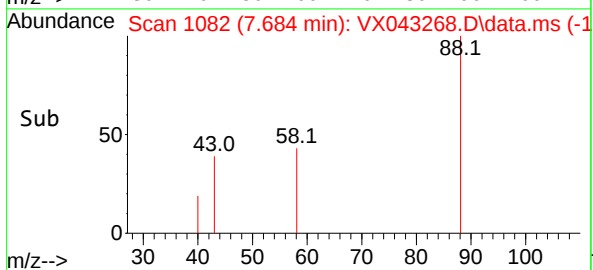
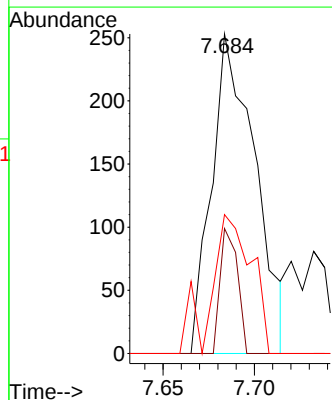
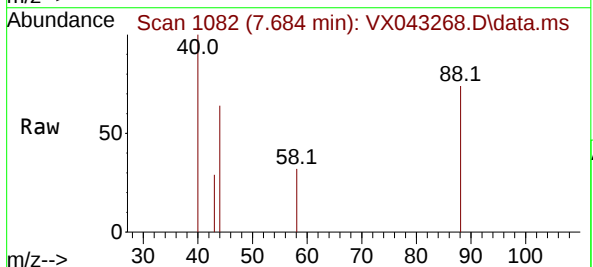
Instrument :  
MSVOA\_X  
ClientSampleId :

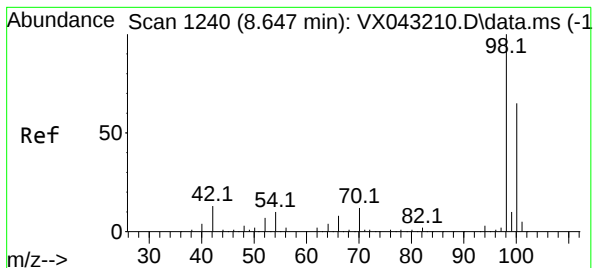
Tgt Ion:130 Resp: 432316  
Ion Ratio Lower Upper  
130 100  
95 102.3 0.0 192.2



#49  
1,4-Dioxane  
Concen: 17.254 ug/l  
RT: 7.684 min Scan# 1082  
Delta R.T. 0.018 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 88 Resp: 420  
Ion Ratio Lower Upper  
88 100  
43 15.5 29.5 44.3#  
58 40.5 55.2 82.8#





#50

Toluene-d8

Concen: 50.959 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043268.D

Acq: 03 Oct 2024 17:31

Instrument :

MSVOA\_X

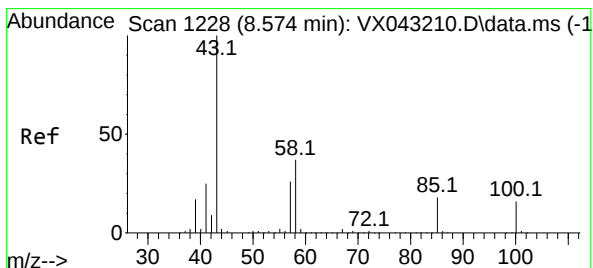
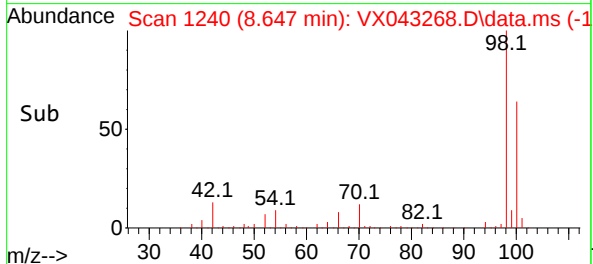
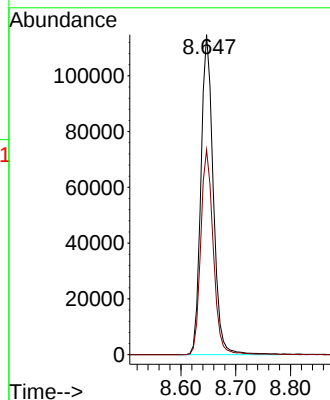
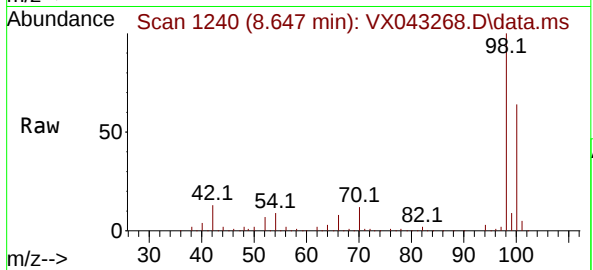
ClientSampleId :

Tgt Ion: 98 Resp: 179865

Ion Ratio Lower Upper

98 100

100 65.2 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 0.566 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. 0.067 min

Lab File: VX043268.D

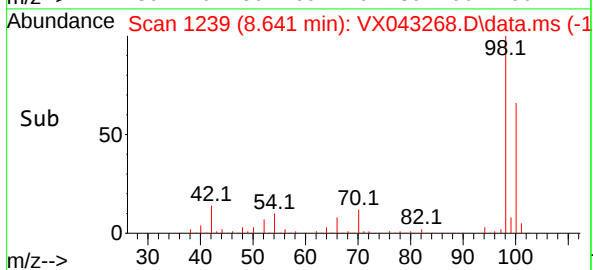
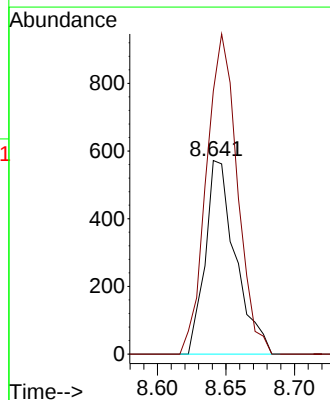
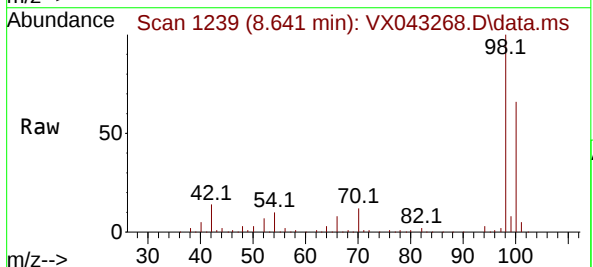
Acq: 03 Oct 2024 17:31

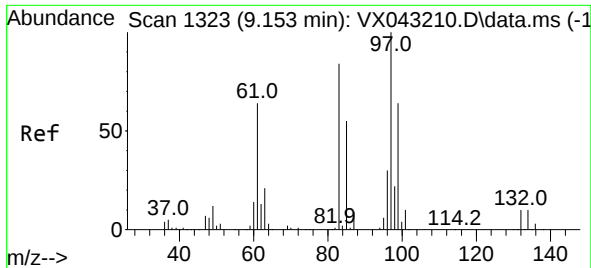
Tgt Ion: 43 Resp: 877

Ion Ratio Lower Upper

43 100

58 169.7 30.0 45.0#



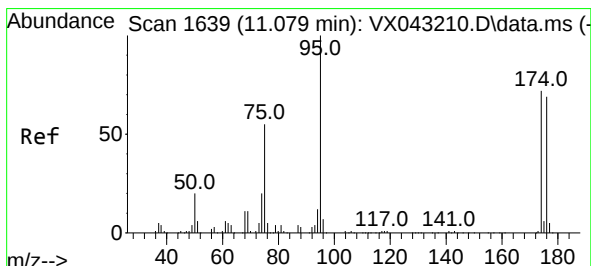
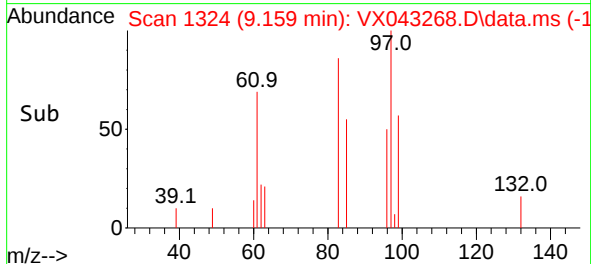
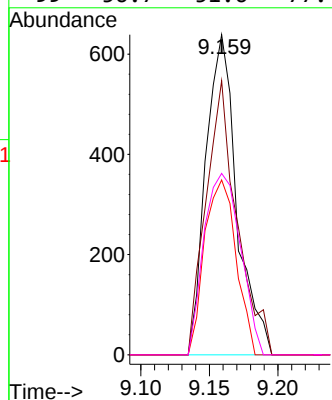
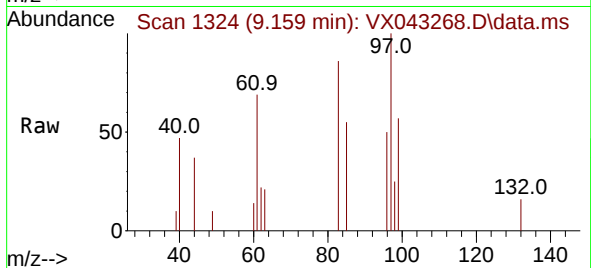


#55  
1,1,2-Trichloroethane  
Concen: 1.032 ug/l  
RT: 9.159 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 97 Resp: 1003

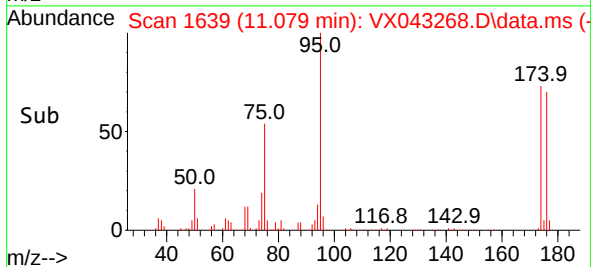
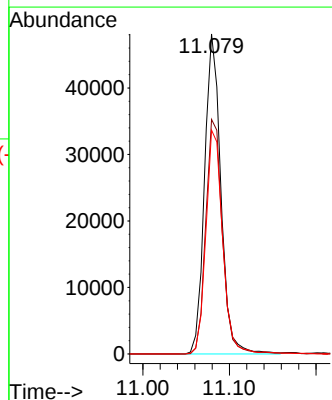
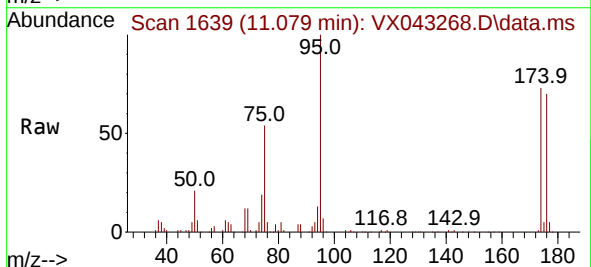
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 85.6  | 66.9  | 100.3 |
| 85  | 54.6  | 43.9  | 65.9  |
| 99  | 56.7  | 51.6  | 77.4  |

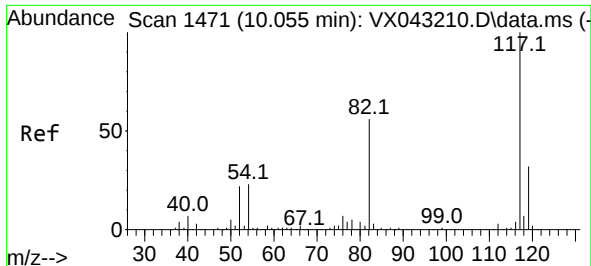


#62  
4-Bromofluorobenzene  
Concen: 49.129 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 95 Resp: 62997

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 74.7  | 0.0   | 145.0 |
| 176 | 72.0  | 0.0   | 143.0 |

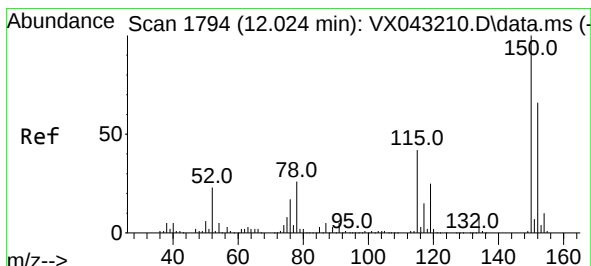
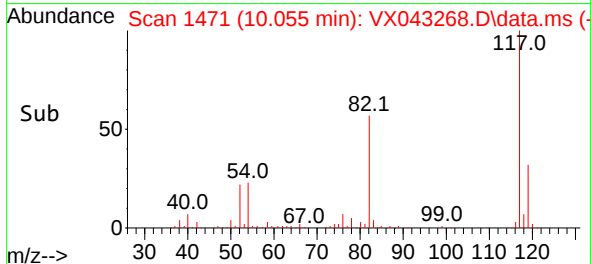
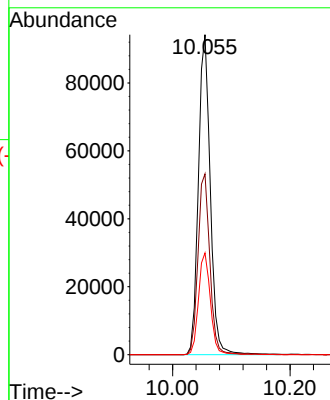
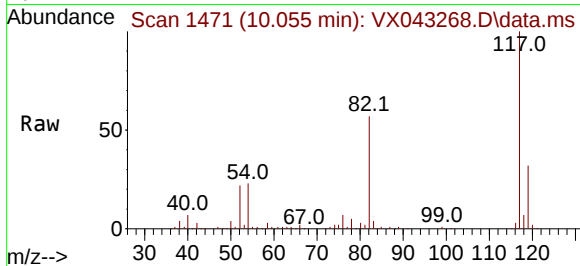




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

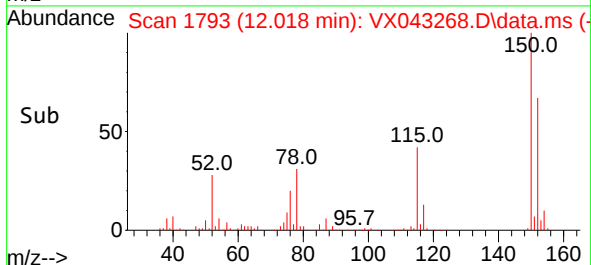
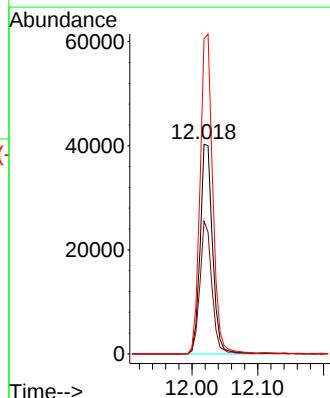
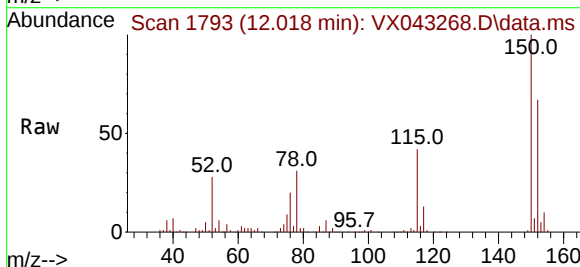
Instrument :  
MSVOA\_X  
ClientSampleId :

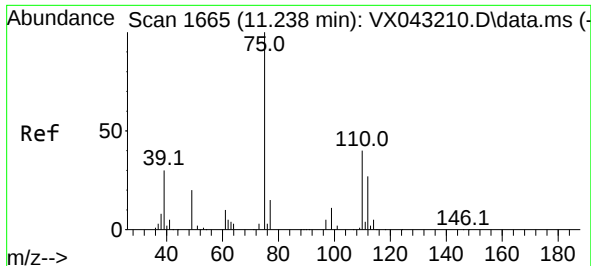
Tgt Ion:117 Resp: 132465  
Ion Ratio Lower Upper  
117 100  
82 56.5 45.0 67.6  
119 31.8 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.006 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion:152 Resp: 53000  
Ion Ratio Lower Upper  
152 100  
115 61.0 44.1 132.3  
150 154.9 0.0 347.4

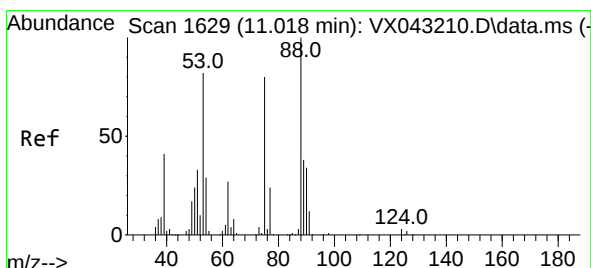
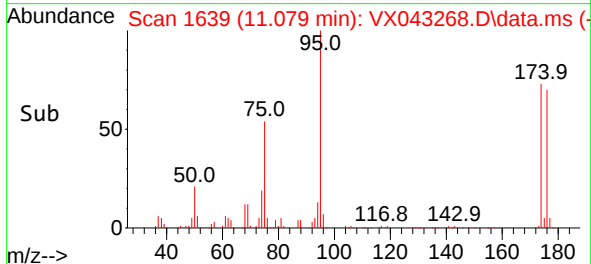
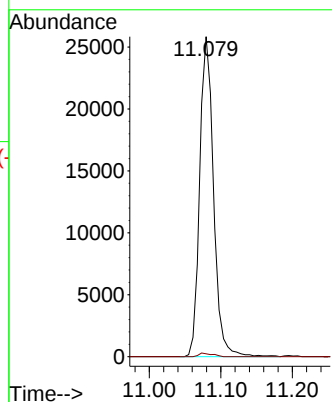
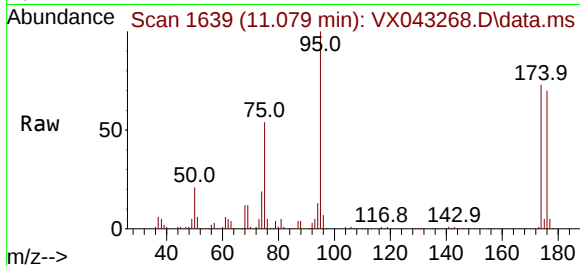




#76  
1,2,3-Trichloropropane  
Concen: 29.535 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 34721  
Ion Ratio Lower Upper  
75 100  
77 1.1 22.0 66.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.544 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX043268.D  
Acq: 03 Oct 2024 17:31

Tgt Ion: 75 Resp: 34721  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.9 125.9#  
89 0.0 38.6 58.0#

