

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120423\  
 Data File : VD077732.D  
 Acq On : 04 Dec 2023 09:00  
 Operator : JC/SY  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 05 00:00:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM112923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Dec 04 03:09:24 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 316291   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.586 | 117   | 289078   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 150014   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.287  | 65    | 150104   | 17.403   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 69.600%  |
| 7) Chloroethane-d5            | 2.810  | 69    | 128547   | 18.698   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 74.800%  |
| 11) 1,1-Dichloroethene-d2     | 3.928  | 65    | 43017    | 19.235   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 76.920%  |
| 21) 2-Butanone-d5             | 6.987  | 46    | 45026    | 41.303   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 82.600%  |
| 24) Chloroform-d              | 7.575  | 84    | 192785   | 22.615   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 90.480%  |
| 26) 1,2-Dichloroethane-d4     | 8.234  | 65    | 93445    | 21.635   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 86.560%  |
| 32) Benzene-d6                | 8.204  | 84    | 387002   | 22.228   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 88.920%  |
| 36) 1,2-Dichloropropane-d6    | 9.216  | 67    | 116040   | 21.844   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 87.360%  |
| 41) Toluene-d8                | 10.275 | 98    | 363577   | 22.688   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 90.760%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 50937    | 21.684   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 86.720%  |
| 47) 2-Hexanone-d5             | 10.881 | 63    | 40283    | 44.007   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 88.020%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.657 | 84    | 85970    | 22.396   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 89.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.822 | 152   | 117585   | 21.910   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 87.640%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.940  | 85    | 132082   | 26.158   | ug/L   | 100      |
| 3) Chloromethane              | 2.152  | 50    | 157602   | 21.726   | ug/L   | 98       |
| 5) Vinyl chloride             | 2.293  | 62    | 213192   | 23.595   | ug/L   | 96       |
| 6) Bromomethane               | 2.705  | 94    | 111902   | 23.378   | ug/L   | 100      |
| 8) Chloroethane               | 2.852  | 64    | 140018   | 24.826   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 3.193  | 101   | 200582   | 26.028   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.981  | 101   | 124836   | 27.459   | ug/L # | 73       |
| 12) 1,1-Dichloroethene        | 3.946  | 96    | 113918   | 26.477   | ug/L # | 82       |
| 13) Acetone                   | 4.028  | 43    | 65939    | 47.210   | ug/L   | 95       |
| 14) Carbon disulfide          | 4.281  | 76    | 400565   | 26.271   | ug/L   | 100      |
| 15) Methyl Acetate            | 4.569  | 43    | 44518    | 22.265   | ug/L # | 86       |
| 16) Methylene chloride        | 4.810  | 84    | 118265   | 21.058   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 5.322  | 96    | 124175   | 27.681   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 5.322  | 73    | 239171   | 24.187   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.122  | 63    | 212836   | 25.174   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 7.087  | 96    | 128959   | 25.870   | ug/L   | 97       |
| 23) Bromochloromethane        | 7.434  | 128   | 53403    | 25.732   | ug/L   | 94       |
| 25) Chloroform                | 7.604  | 83    | 214393   | 25.758   | ug/L   | 93       |
| 27) 1,2-Dichloroethane        | 8.328  | 62    | 129171   | 24.810   | ug/L # | 93       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120423\  
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 Sample : VSTDCCC025  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 05 00:00:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM112923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Dec 04 03:09:24 2023  
 Response via : Initial Calibration

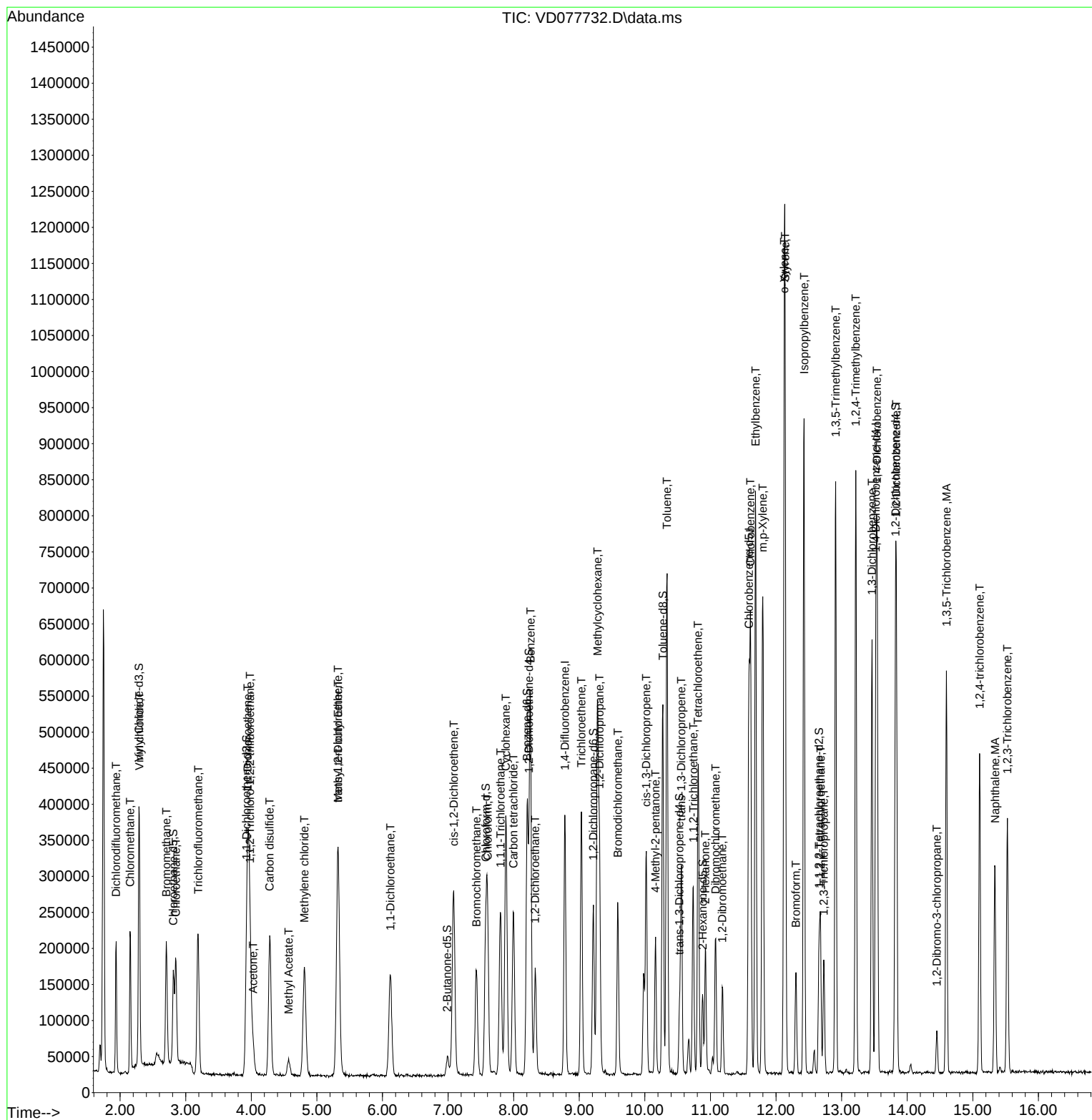
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 29) Cyclohexane               | 7.881  | 56   | 203458   | 26.672 | ug/L   | 96       |
| 30) 1,1,1-Trichloroethane     | 7.798  | 97   | 191916   | 27.131 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 7.998  | 117  | 174805   | 28.101 | ug/L   | 99       |
| 33) Benzene                   | 8.257  | 78   | 499426   | 26.543 | ug/L   | 100      |
| 34) Trichloroethene           | 9.034  | 95   | 125988   | 26.975 | ug/L   | 99       |
| 35) Methylcyclohexane         | 9.281  | 83   | 223976   | 27.012 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 9.310  | 63   | 123829   | 25.242 | ug/L   | 100      |
| 38) Bromodichloromethane      | 9.587  | 83   | 152384   | 25.544 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 10.022 | 75   | 192336   | 25.106 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone      | 10.163 | 43   | 124090   | 45.839 | ug/L   | 98       |
| 42) Toluene                   | 10.339 | 91   | 539034   | 26.972 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 160748   | 25.122 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 10.739 | 97   | 86502    | 26.255 | ug/L   | 96       |
| 46) Tetrachloroethene         | 10.810 | 164  | 102073   | 27.102 | ug/L   | 98       |
| 48) 2-Hexanone                | 10.922 | 43   | 108148   | 47.001 | ug/L   | 94       |
| 49) Dibromochloromethane      | 11.081 | 129  | 100166   | 25.568 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 79267    | 24.947 | ug/L   | 96       |
| 51) Chlorobenzene             | 11.610 | 112  | 325657   | 26.279 | ug/L   | 100      |
| 52) Ethylbenzene              | 11.686 | 91   | 593032   | 26.768 | ug/L   | 100      |
| 53) m,p-Xylene                | 11.798 | 106  | 224639   | 26.835 | ug/L   | 99       |
| 54) o-Xylene                  | 12.128 | 106  | 213342   | 26.630 | ug/L   | 97       |
| 55) Styrene                   | 12.139 | 104  | 375373   | 26.777 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 12.681 | 83   | 96654    | 24.758 | ug/L   | 100      |
| 59) Bromoform                 | 12.304 | 173  | 64020    | 25.792 | ug/L # | 97       |
| 60) Isopropylbenzene          | 12.428 | 105  | 594807   | 26.565 | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 65948    | 23.900 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 12.910 | 105  | 437435   | 26.011 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 448066   | 26.277 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 13.463 | 146  | 252663   | 26.092 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 13.539 | 146  | 262905   | 26.165 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 13.833 | 146  | 223277   | 25.624 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 14.451 | 75   | 14461    | 22.226 | ug/L   | 92       |
| 69) 1,3,5-Trichlorobenzene    | 14.598 | 180  | 173411   | 26.299 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.104 | 180  | 142520   | 25.460 | ug/L   | 98       |
| 71) Naphthalene               | 15.339 | 128  | 251630   | 24.588 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 15.527 | 180  | 121030   | 24.664 | ug/L   | 99       |

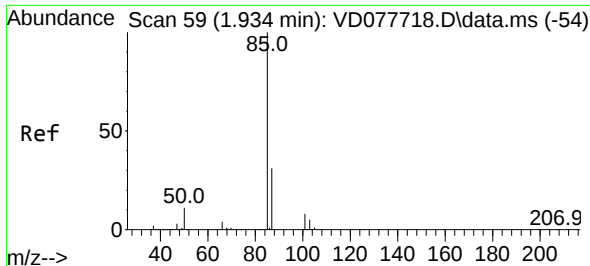
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 QLast Update : Mon Dec 04 03:09:24 2023  
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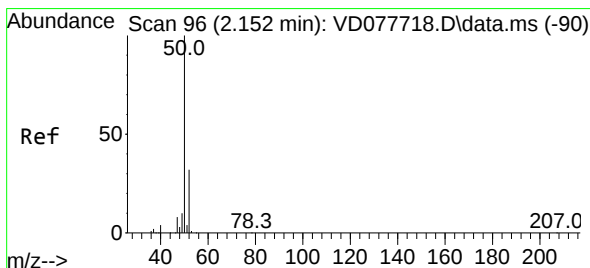
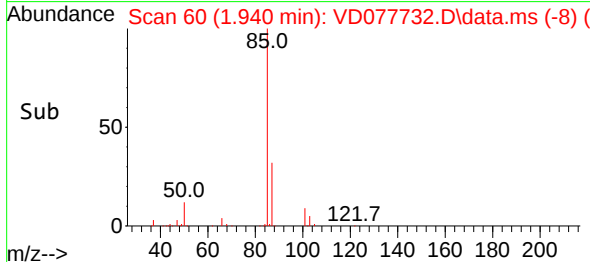
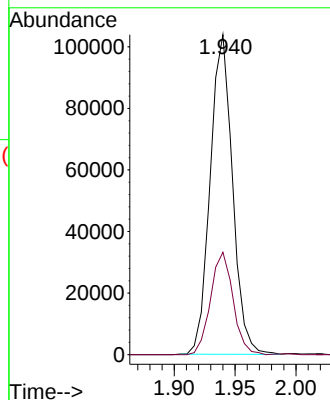
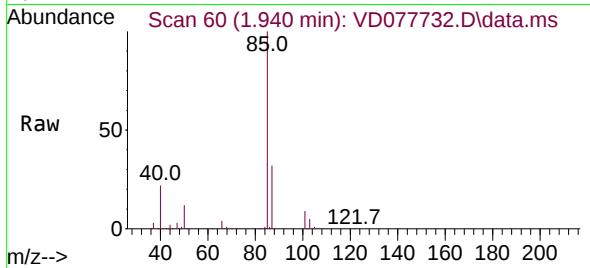




#2  
Dichlorodifluoromethane  
Concen: 26.158 ug/L  
RT: 1.940 min Scan# 60  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

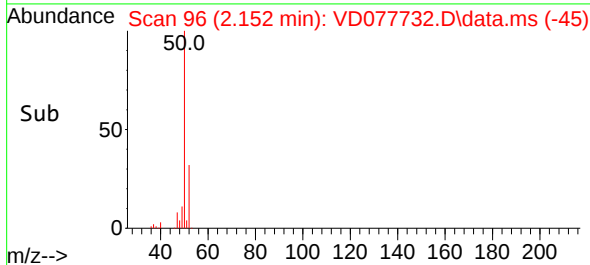
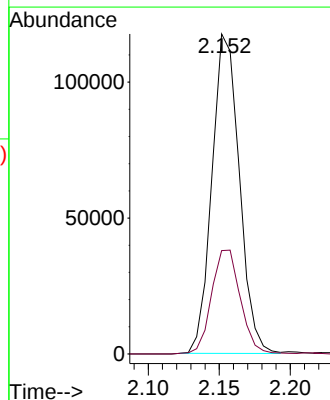
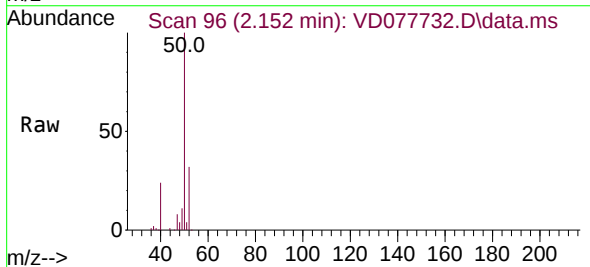
Instrument :  
MSVOA\_D  
ClientSampleId :

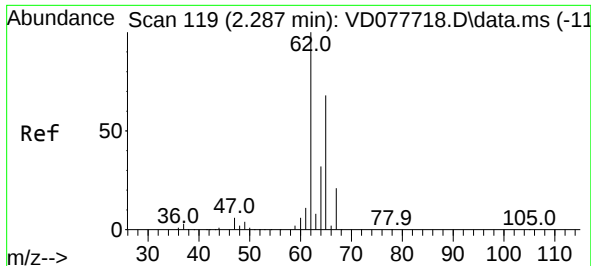
Tgt Ion: 85 Resp: 132082  
Ion Ratio Lower Upper  
85 100  
87 32.3 25.6 38.4



#3  
Chloromethane  
Concen: 21.726 ug/L  
RT: 2.152 min Scan# 96  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 50 Resp: 157602  
Ion Ratio Lower Upper  
50 100  
52 32.3 23.2 43.2

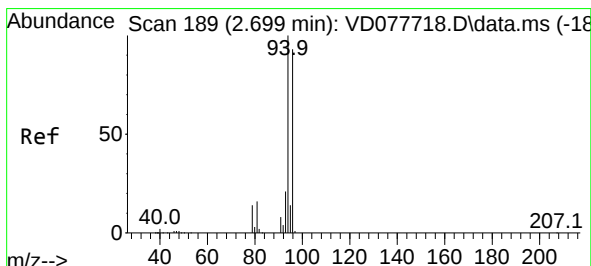
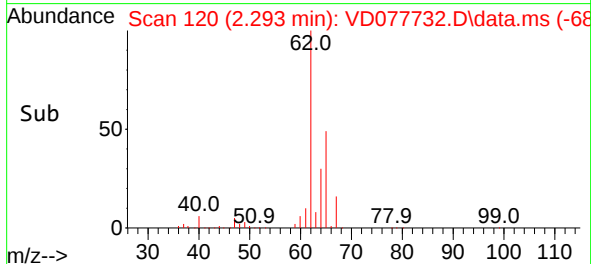
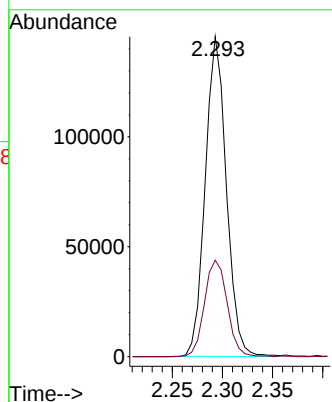
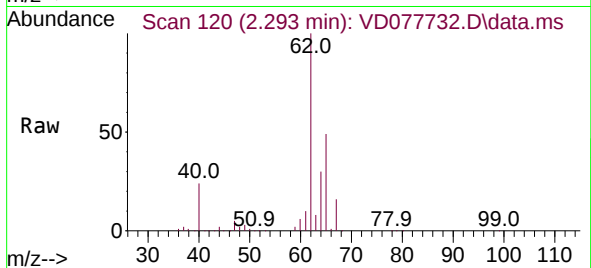




#5  
 Vinyl chloride  
 Concen: 23.595 ug/L  
 RT: 2.293 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VD077732.D  
 Acq: 04 Dec 2023 09:00

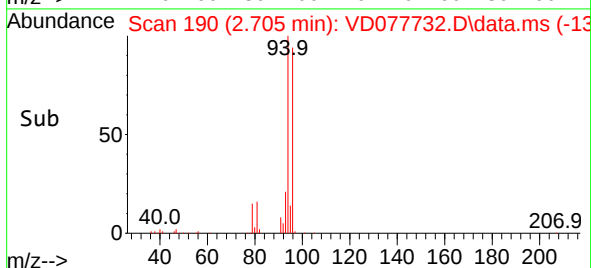
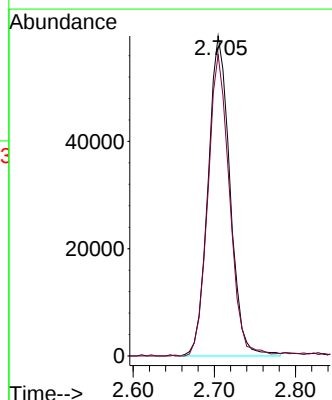
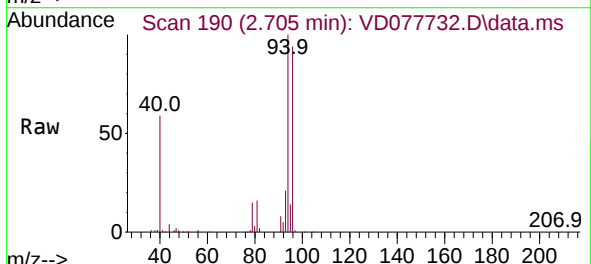
Instrument :  
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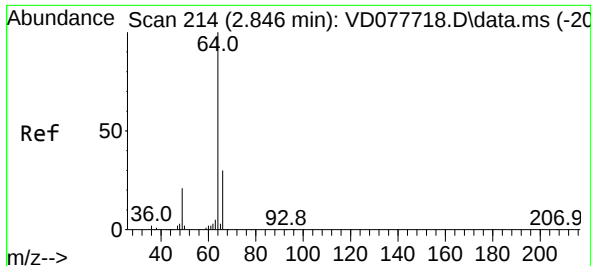
Tgt Ion: 62 Resp: 213192  
 Ion Ratio Lower Upper  
 62 100  
 64 30.1 22.6 42.0



#6  
 Bromomethane  
 Concen: 23.378 ug/L  
 RT: 2.705 min Scan# 190  
 Delta R.T. 0.006 min  
 Lab File: VD077732.D  
 Acq: 04 Dec 2023 09:00

Tgt Ion: 94 Resp: 111902  
 Ion Ratio Lower Upper  
 94 100  
 96 94.2 66.0 122.6

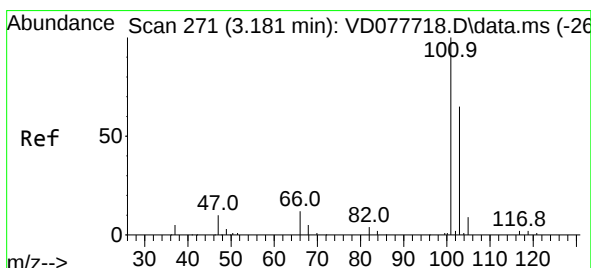
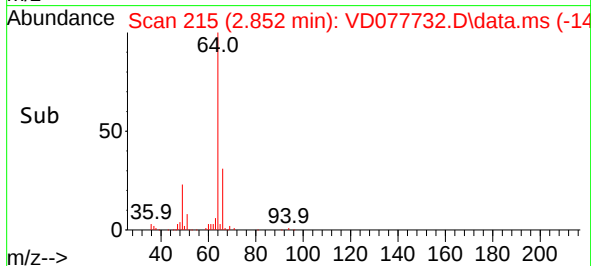
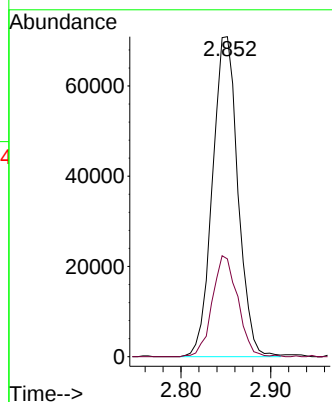
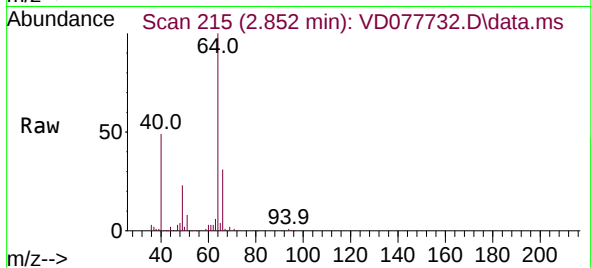




#8  
Chloroethane  
Concen: 24.826 ug/L  
RT: 2.852 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

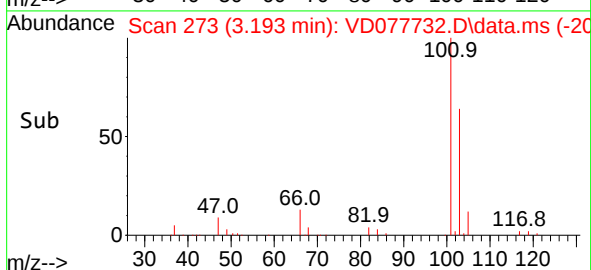
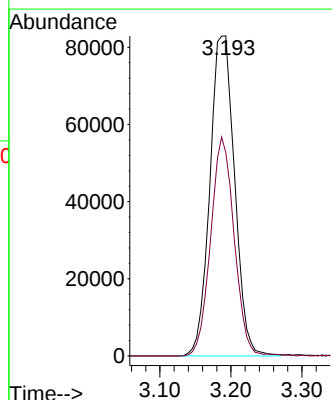
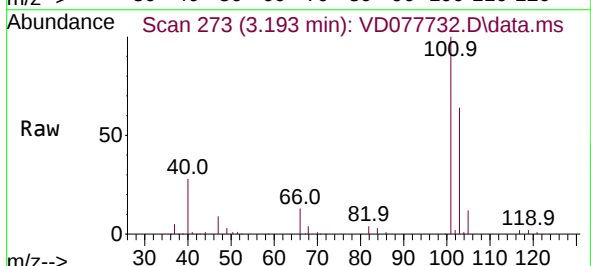
Instrument :  
MSVOA\_D  
ClientSampleId :

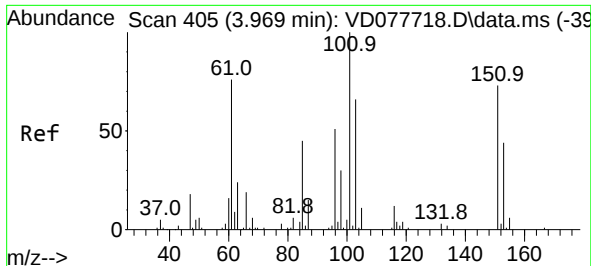
Tgt Ion: 64 Resp: 140018  
Ion Ratio Lower Upper  
64 100  
66 30.6 22.0 41.0



#9  
Trichlorofluoromethane  
Concen: 26.028 ug/L  
RT: 3.193 min Scan# 273  
Delta R.T. 0.012 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion:101 Resp: 200582  
Ion Ratio Lower Upper  
101 100  
103 64.6 52.5 78.7

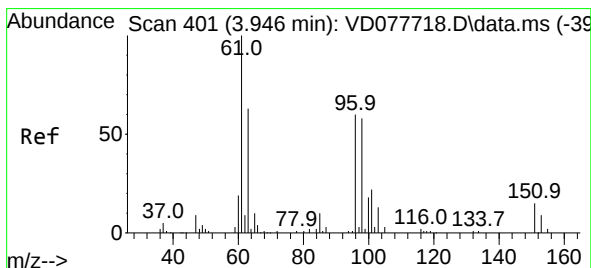
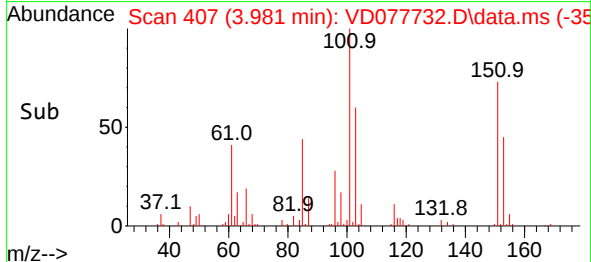
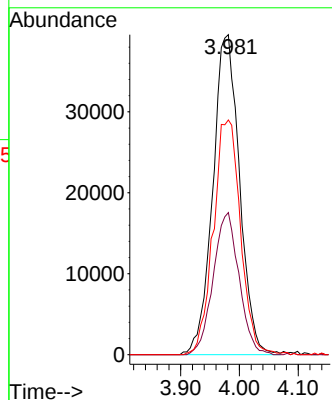
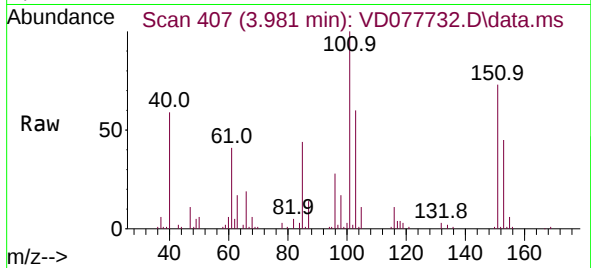




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 27.459 ug/L  
RT: 3.981 min Scan# 407  
Delta R.T. 0.012 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

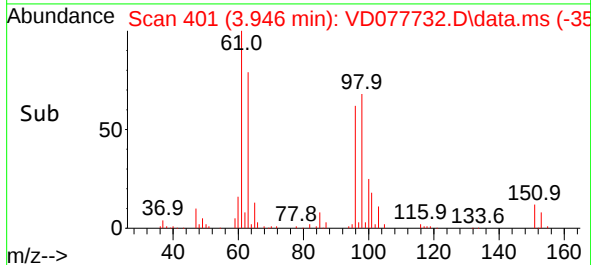
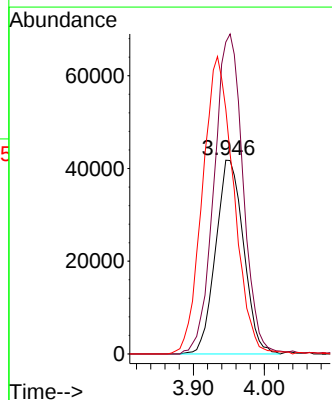
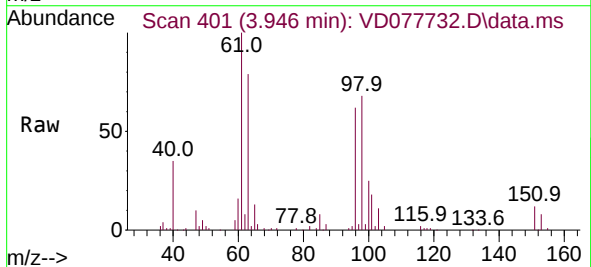
Instrument :  
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ClientSampleId :

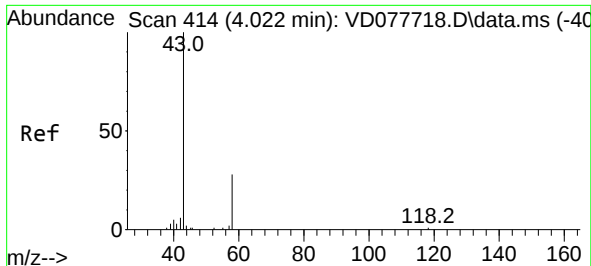
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Ion Ratio Lower Upper  
101 100  
85 43.0 35.8 53.6  
151 36.1 57.0 85.6#



#12  
1,1-Dichloroethene  
Concen: 26.477 ug/L  
RT: 3.946 min Scan# 401  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 96 Resp: 113918  
Ion Ratio Lower Upper  
96 100  
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63 126.3 60.3 111.9#

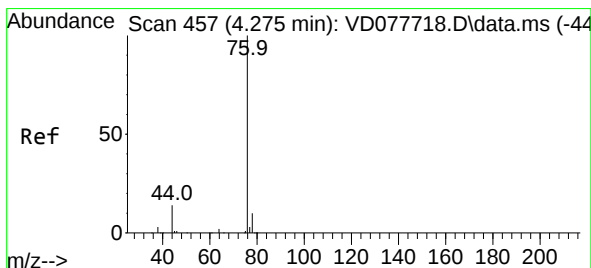
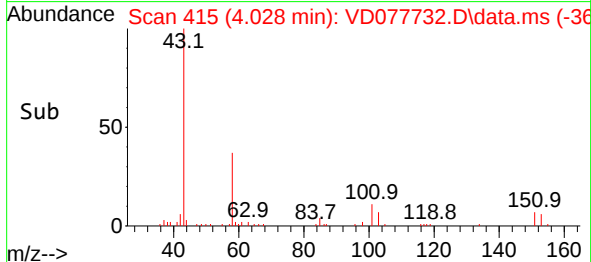
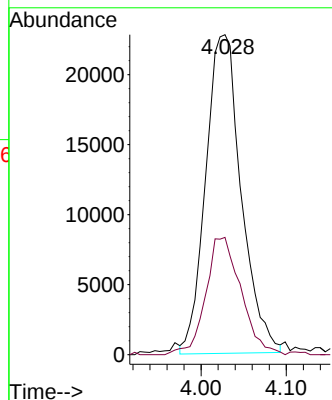
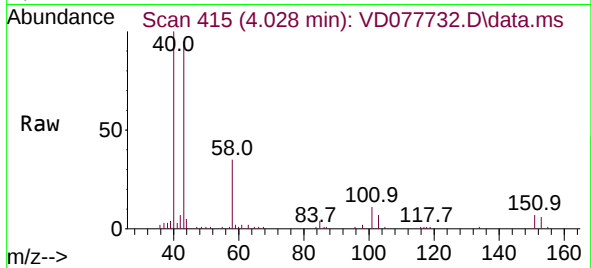




#13  
Acetone  
Concen: 47.210 ug/L  
RT: 4.028 min Scan# 414  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

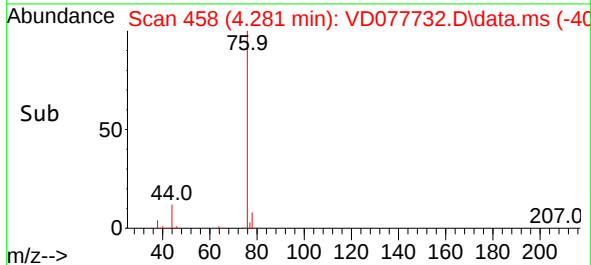
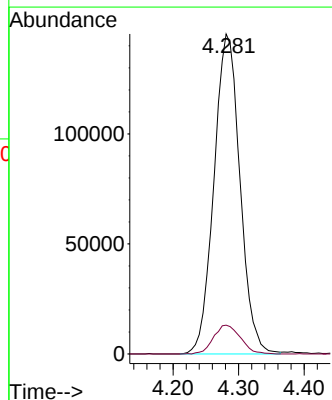
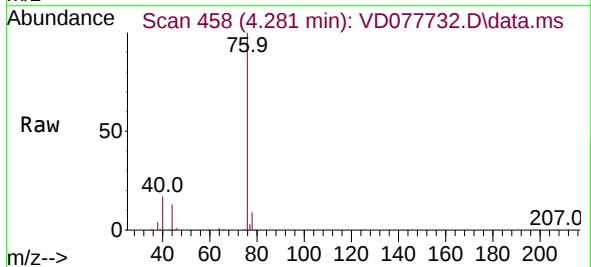
Instrument :  
MSVOA\_D  
ClientSampleId :

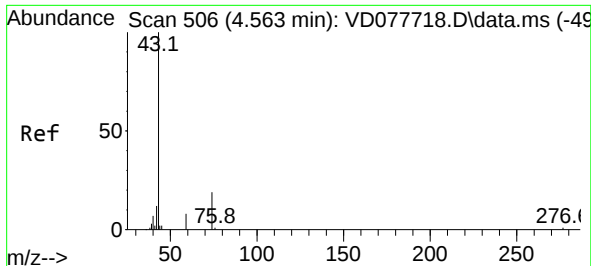
Tgt Ion: 43 Resp: 65939  
Ion Ratio Lower Upper  
43 100  
58 36.6 0.0 67.2



#14  
Carbon disulfide  
Concen: 26.271 ug/L  
RT: 4.281 min Scan# 458  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 76 Resp: 400565  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.2 10.8

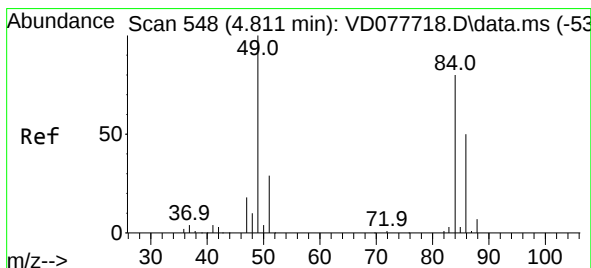
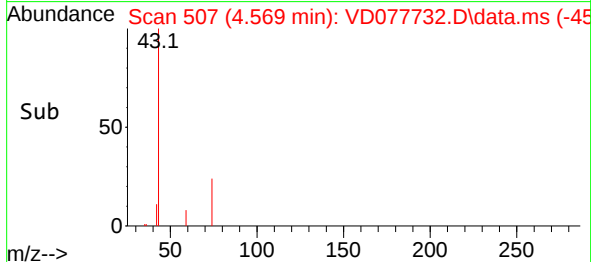
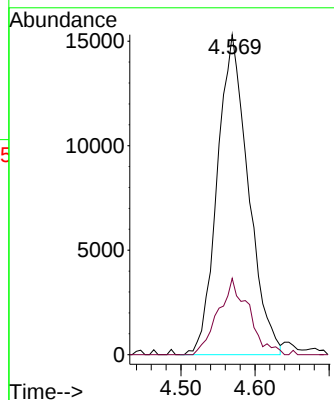
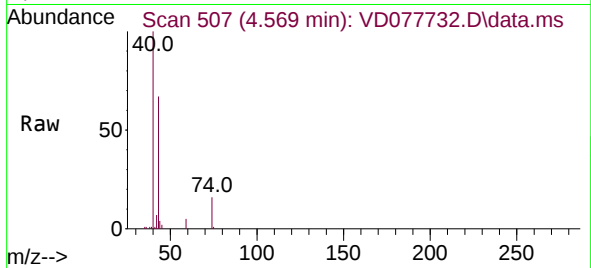




#15  
Methyl Acetate  
Concen: 22.265 ug/L  
RT: 4.569 min Scan# 506  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

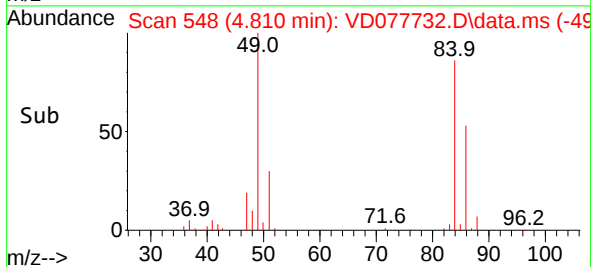
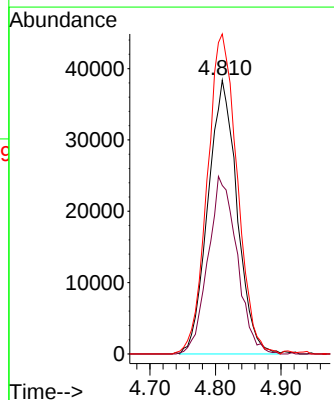
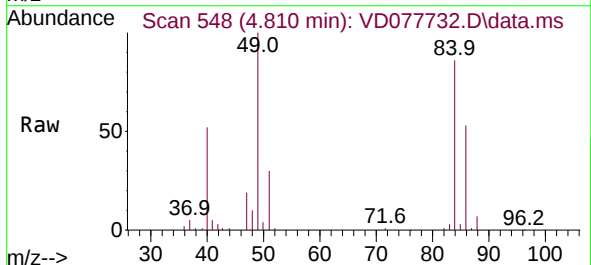
Instrument :  
MSVOA\_D  
ClientSampleId :

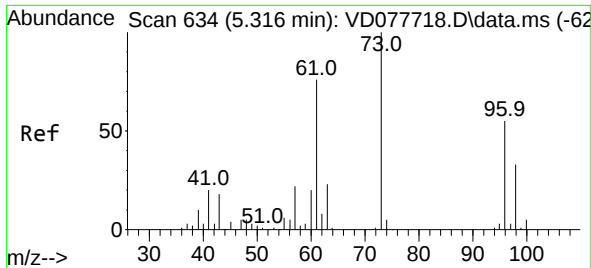
Tgt Ion: 43 Resp: 44518  
Ion Ratio Lower Upper  
43 100  
74 16.5 18.6 27.8#



#16  
Methylene chloride  
Concen: 21.058 ug/L  
RT: 4.810 min Scan# 548  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 84 Resp: 118265  
Ion Ratio Lower Upper  
84 100  
86 61.6 40.1 74.5  
49 116.9 83.2 154.6





#17

trans-1,2-Dichloroethene

Concen: 27.681 ug/L

RT: 5.322 min Scan# 61

Delta R.T. 0.006 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

ClientSampleId :

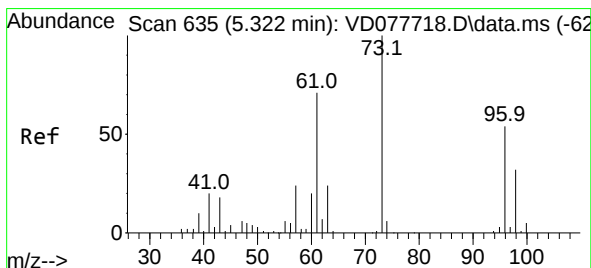
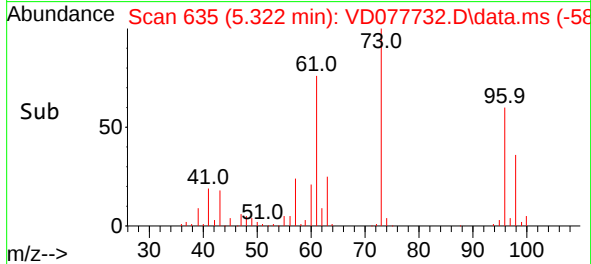
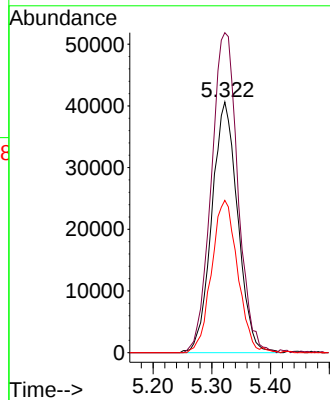
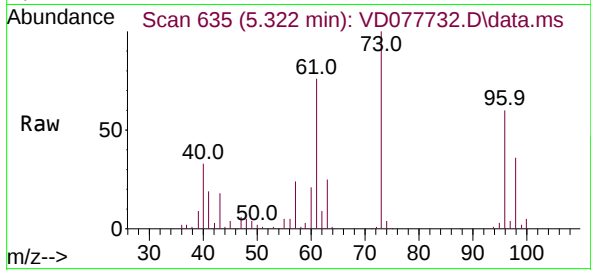
Tgt Ion: 96 Resp: 124175

Ion Ratio Lower Upper

96 100

61 127.6 92.3 171.3

98 60.7 44.7 82.9



#18

Methyl tert-butyl Ether

Concen: 24.187 ug/L

RT: 5.322 min Scan# 635

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

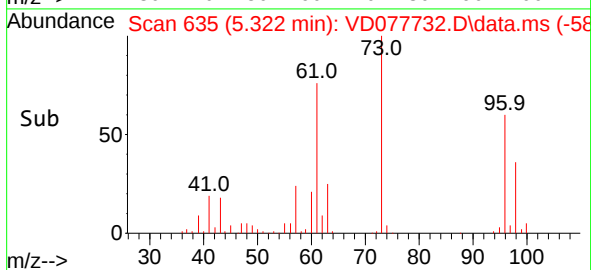
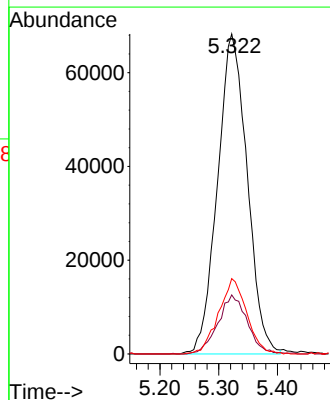
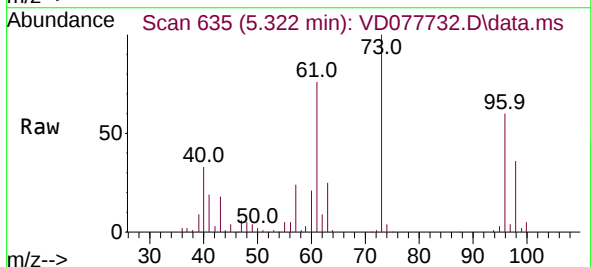
Tgt Ion: 73 Resp: 239171

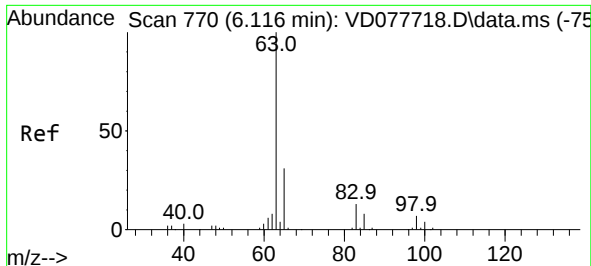
Ion Ratio Lower Upper

73 100

43 18.0 15.0 22.4

57 22.2 18.1 27.1





#19

1,1-Dichloroethane

Concen: 25.174 ug/L

RT: 6.122 min Scan# 71

Delta R.T. 0.006 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

ClientSampleId :

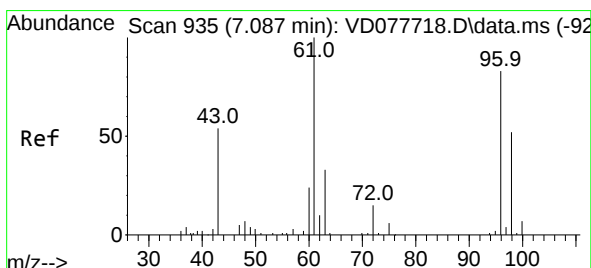
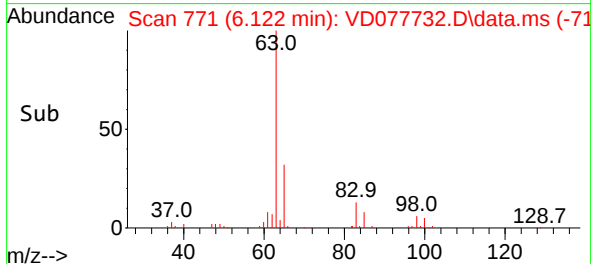
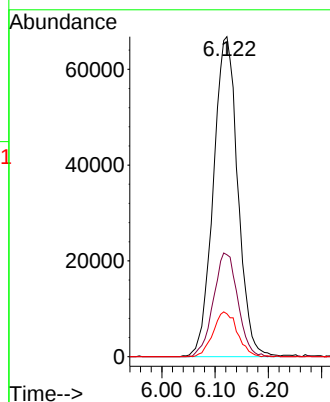
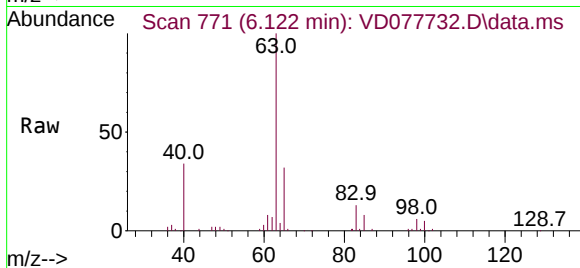
Tgt Ion: 63 Resp: 212836

Ion Ratio Lower Upper

63 100

65 31.9 20.9 38.9

83 13.4 9.7 17.9



#20

cis-1,2-Dichloroethene

Concen: 25.870 ug/L

RT: 7.087 min Scan# 935

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

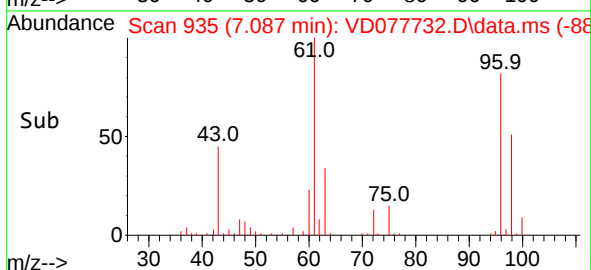
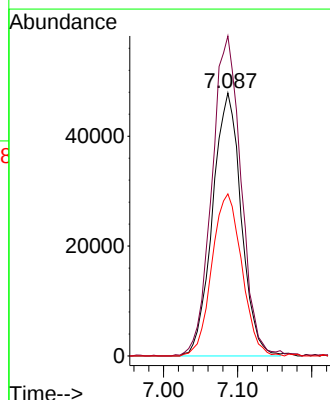
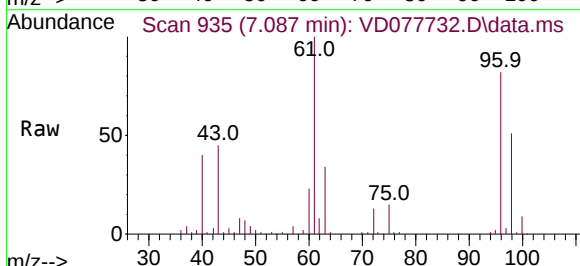
Tgt Ion: 96 Resp: 128959

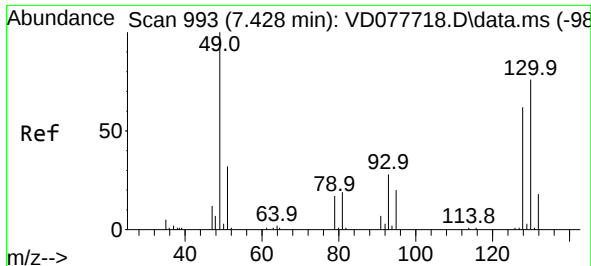
Ion Ratio Lower Upper

96 100

61 121.7 88.1 163.5

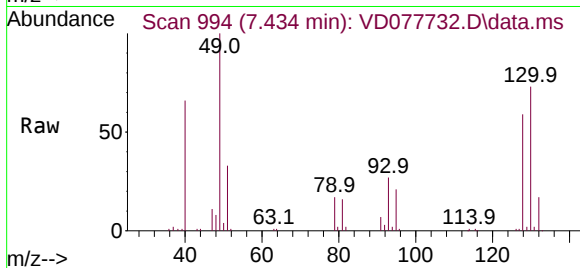
98 61.6 44.1 81.9



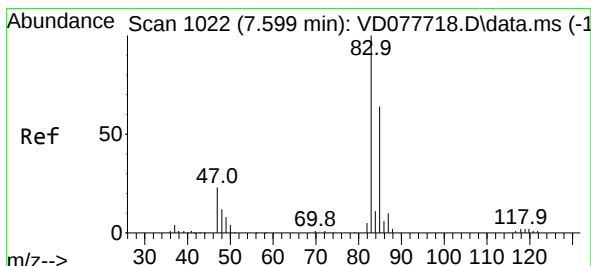
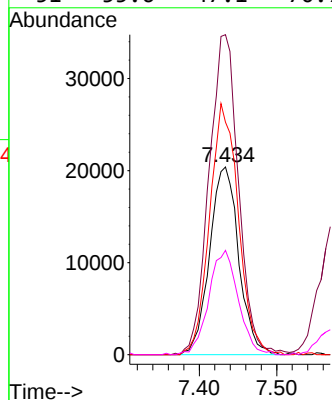
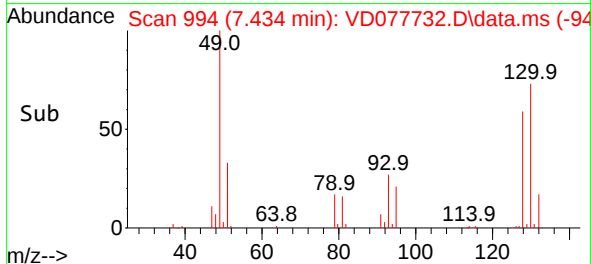


#23  
Bromochloromethane  
Concen: 25.732 ug/L  
RT: 7.434 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Instrument :  
MSVOA\_D  
ClientSampleId :

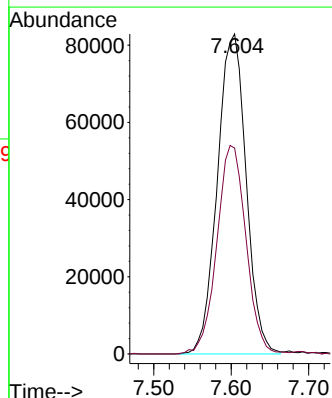
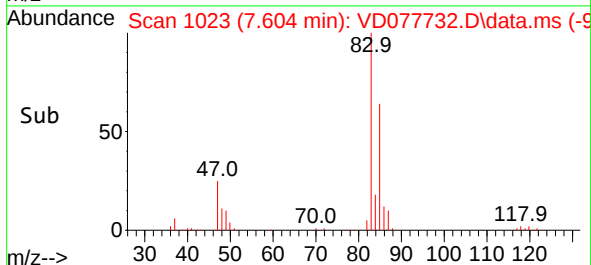
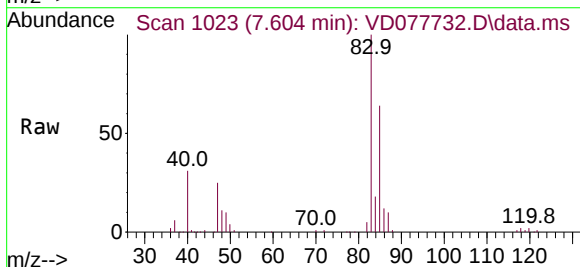


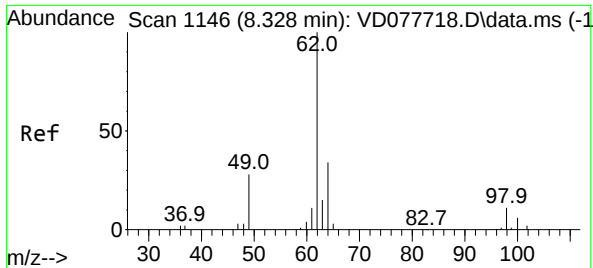
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 53403 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 170.5 | 124.7 | 231.5 |
| 130      | 123.9 | 92.3  | 171.3 |
| 51       | 55.6  | 47.1  | 70.7  |



#25  
Chloroform  
Concen: 25.758 ug/L  
RT: 7.604 min Scan# 1023  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 214393 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.4  | 48.9  | 90.9   |

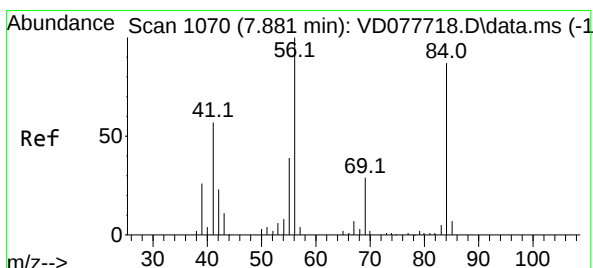
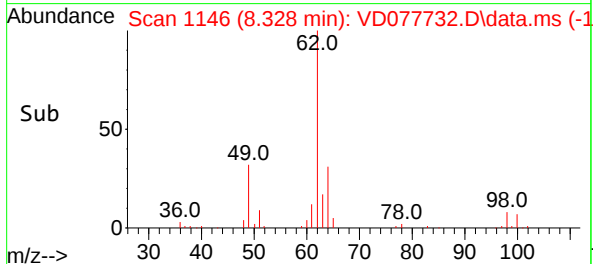
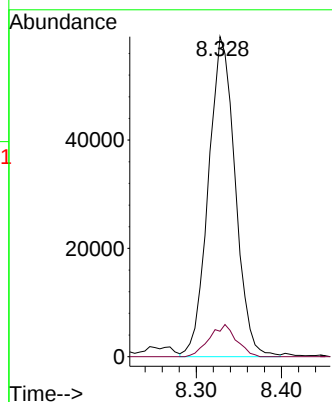
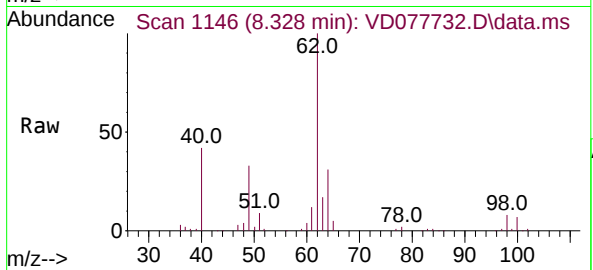




#27  
1,2-Dichloroethane  
Concen: 24.810 ug/L  
RT: 8.328 min Scan# 1146  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

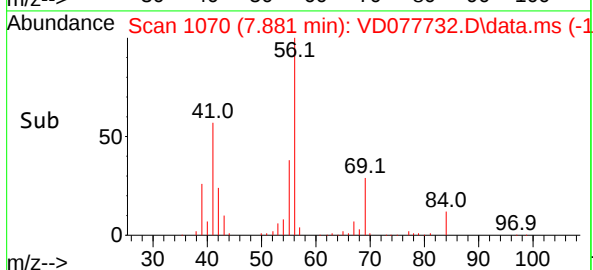
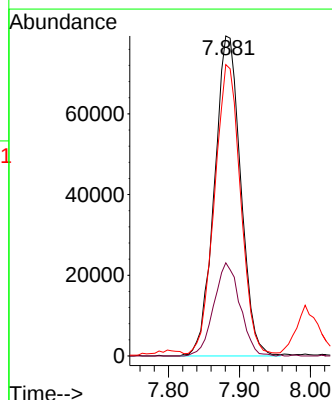
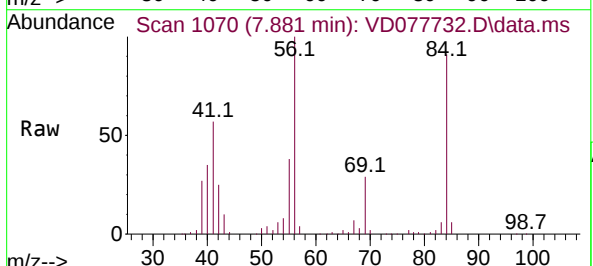
Instrument :  
MSVOA\_D  
ClientSampleId :

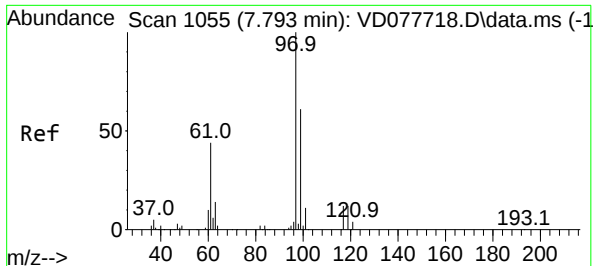
Tgt Ion: 62 Resp: 129171  
Ion Ratio Lower Upper  
62 100  
98 8.0 8.4 12.6#



#29  
Cyclohexane  
Concen: 26.672 ug/L  
RT: 7.881 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 56 Resp: 203458  
Ion Ratio Lower Upper  
56 100  
69 28.9 22.2 33.4  
84 90.4 68.5 102.7





#30

1,1,1-Trichloroethane

Concen: 27.131 ug/L

RT: 7.798 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

ClientSampleId :

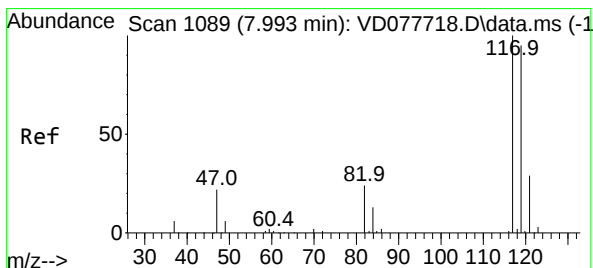
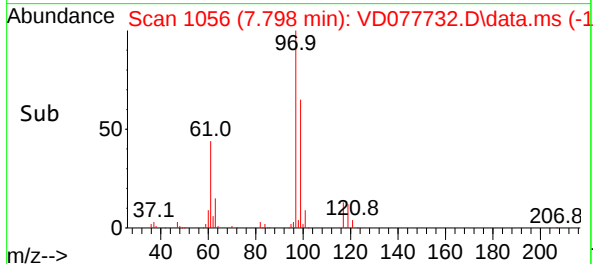
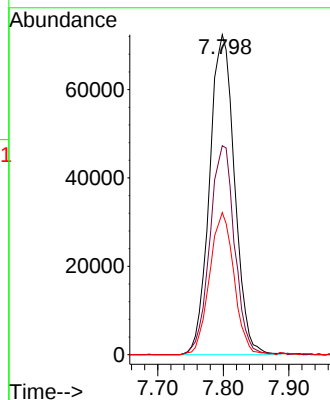
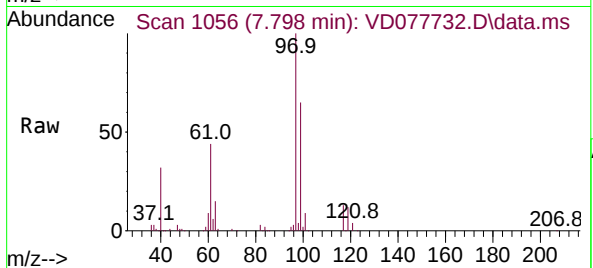
Tgt Ion: 97 Resp: 191916

Ion Ratio Lower Upper

97 100

99 64.8 51.4 77.2

61 43.4 35.4 53.2



#31

Carbon tetrachloride

Concen: 28.101 ug/L

RT: 7.998 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VD077732.D

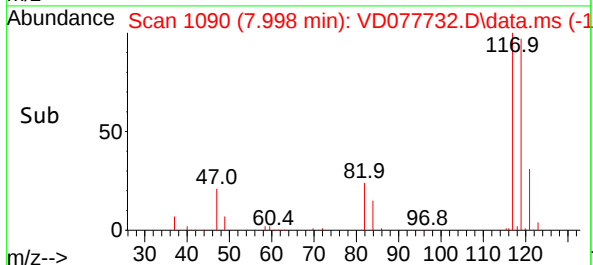
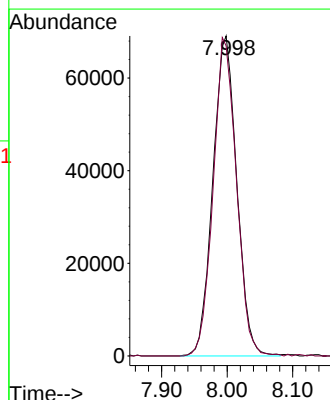
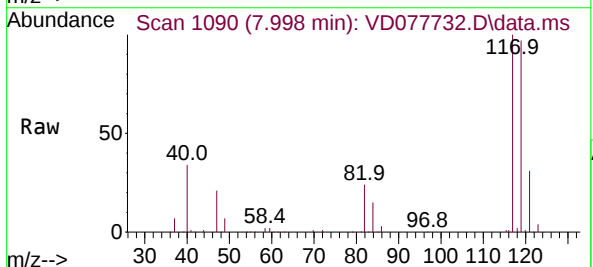
Acq: 04 Dec 2023 09:00

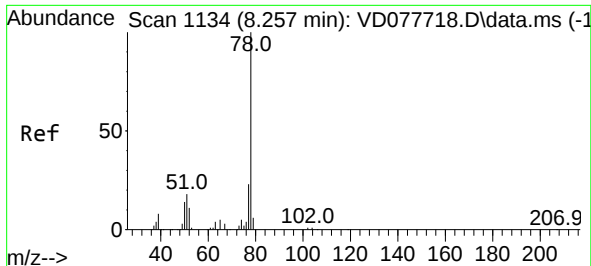
Tgt Ion: 117 Resp: 174805

Ion Ratio Lower Upper

117 100

119 96.4 76.3 114.5

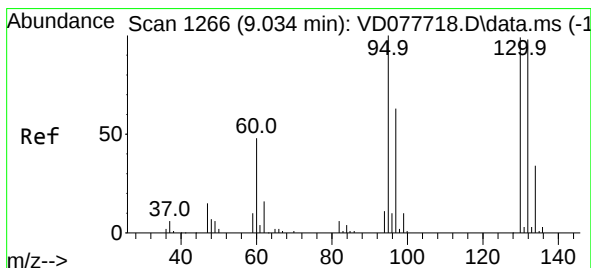
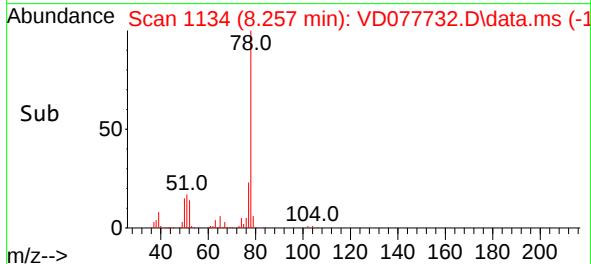
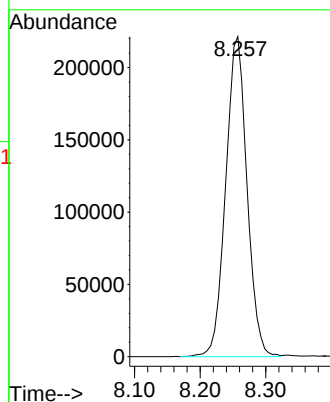
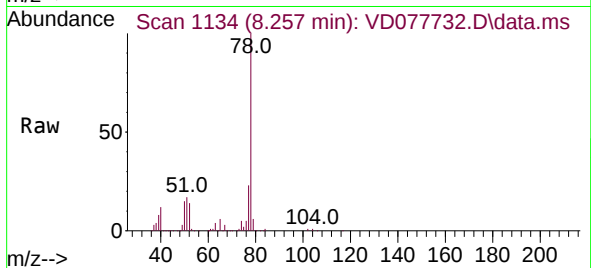




#33  
Benzene  
Concen: 26.543 ug/L  
RT: 8.257 min Scan# 1134  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Instrument :  
MSVOA\_D  
ClientSampleId :

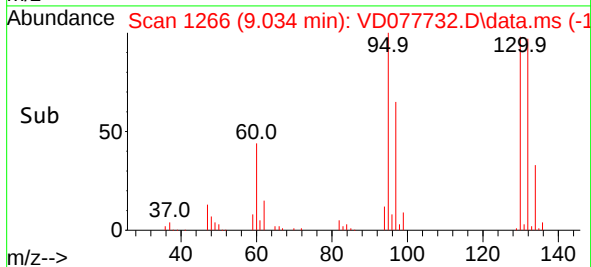
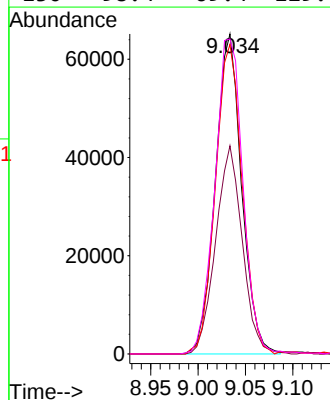
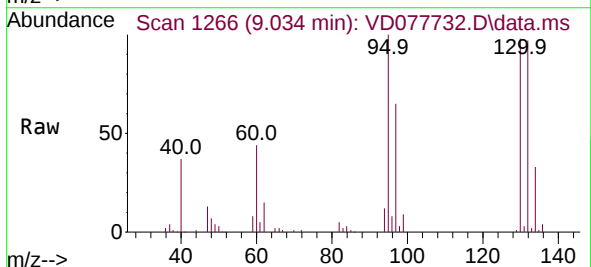
Tgt Ion: 78 Resp: 499426

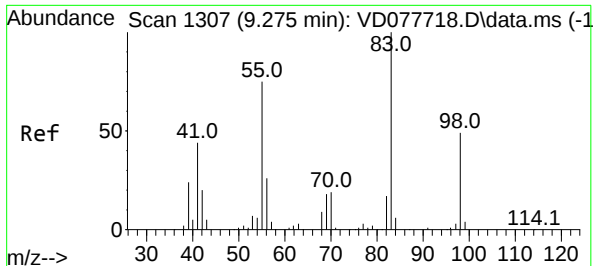


#34  
Trichloroethene  
Concen: 26.975 ug/L  
RT: 9.034 min Scan# 1266  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 95 Resp: 125988

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.1  | 44.2  | 82.0  |
| 132 | 96.8  | 67.5  | 125.3 |
| 130 | 98.4  | 69.4  | 129.0 |





#35

Methylcyclohexane

Concen: 27.012 ug/L

RT: 9.281 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

ClientSampleId :

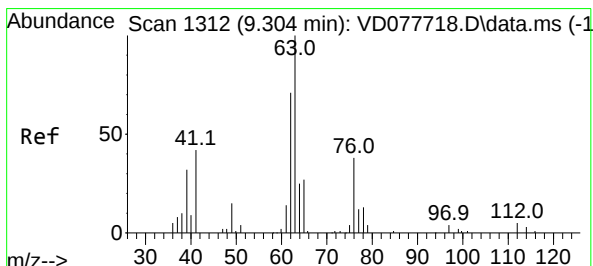
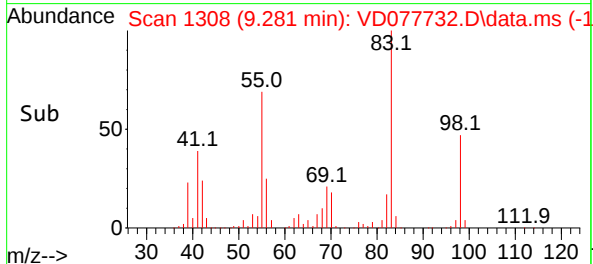
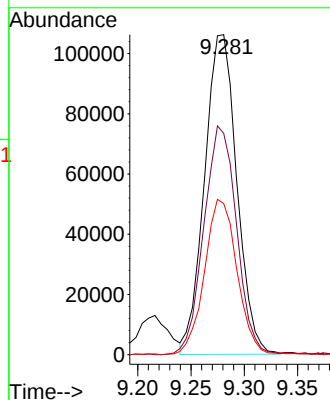
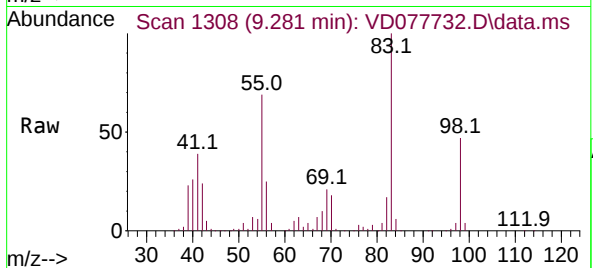
Tgt Ion: 83 Resp: 223976

Ion Ratio Lower Upper

83 100

55 72.4 59.8 89.6

98 48.7 38.5 57.7



#37

1,2-Dichloropropane

Concen: 25.242 ug/L

RT: 9.310 min Scan# 1313

Delta R.T. 0.006 min

Lab File: VD077732.D

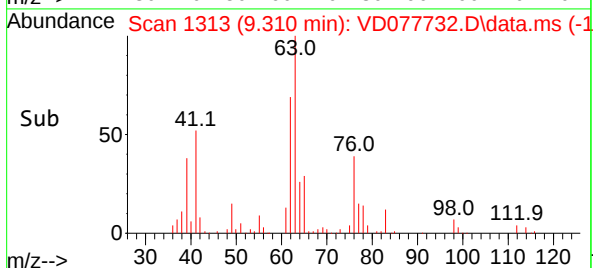
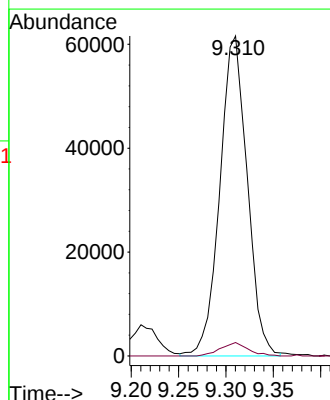
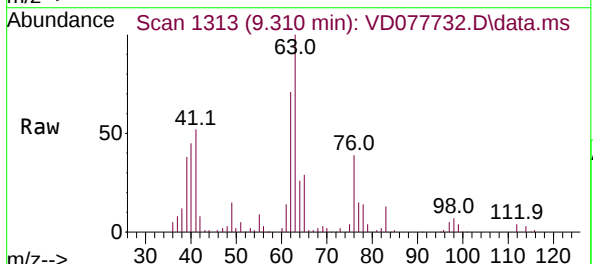
Acq: 04 Dec 2023 09:00

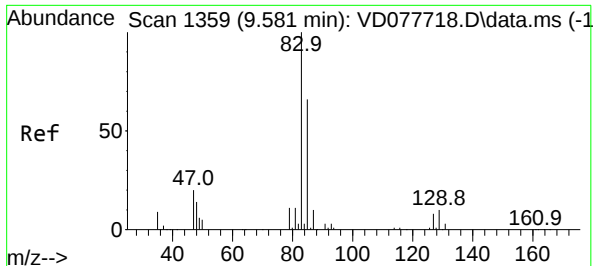
Tgt Ion: 63 Resp: 123829

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3

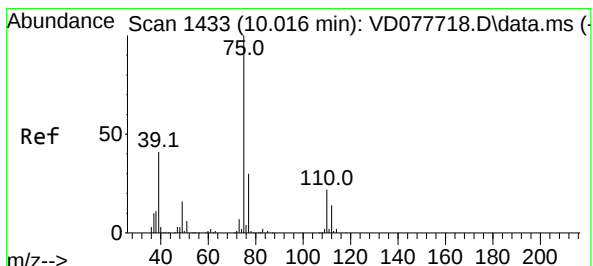
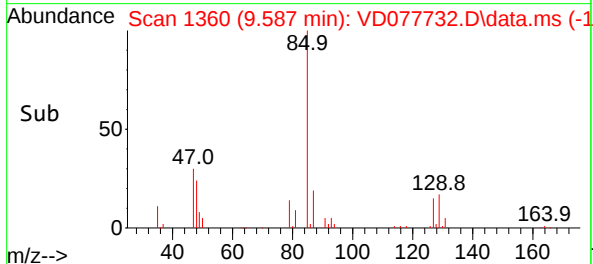
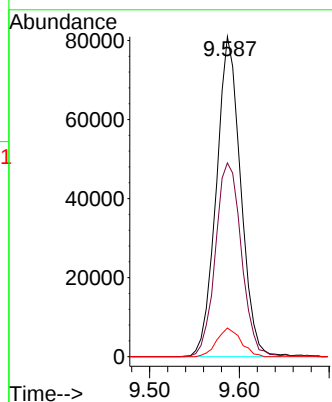
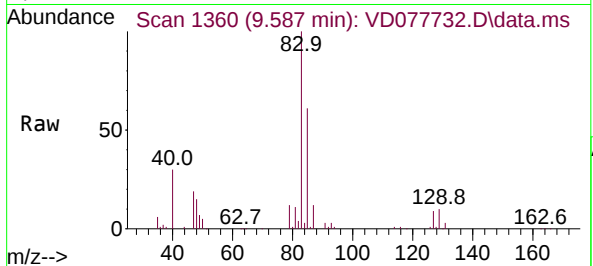




#38  
Bromodichloromethane  
Concen: 25.544 ug/L  
RT: 9.587 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

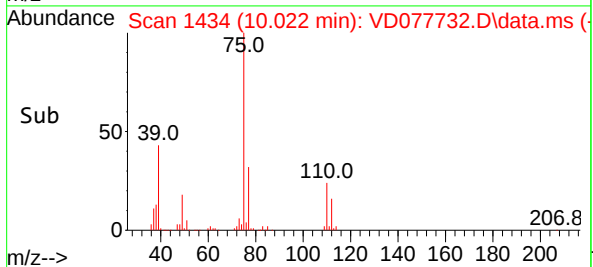
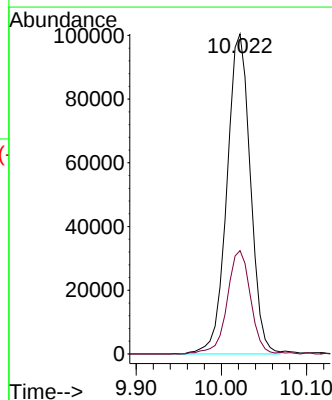
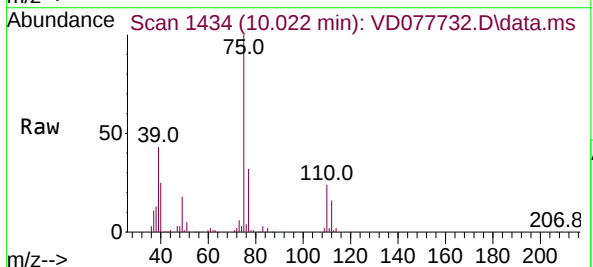
Instrument :  
MSVOA\_D  
ClientSampleId :

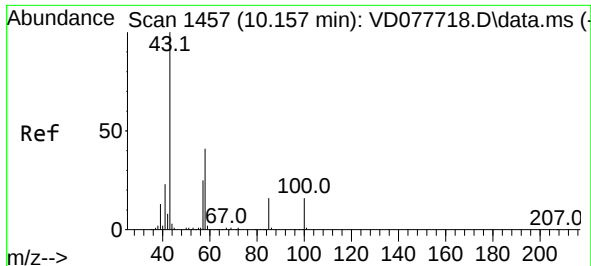
Tgt Ion: 83 Resp: 152384  
Ion Ratio Lower Upper  
83 100  
85 60.6 45.5 84.5  
127 9.0 7.4 11.2



#39  
cis-1,3-Dichloropropene  
Concen: 25.106 ug/L  
RT: 10.022 min Scan# 1434  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 75 Resp: 192336  
Ion Ratio Lower Upper  
75 100  
77 32.3 21.2 39.4

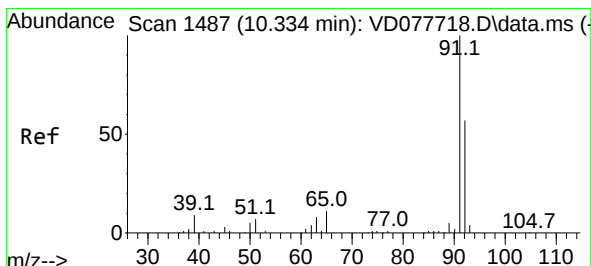
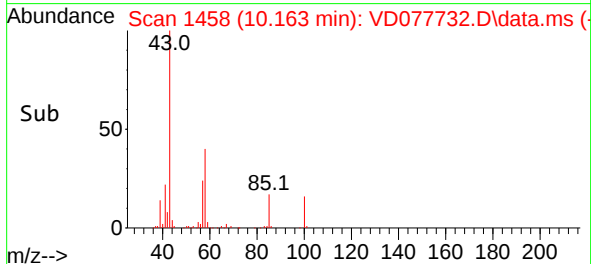
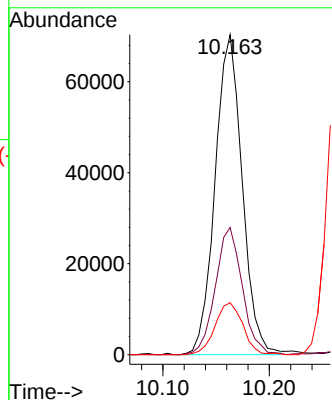
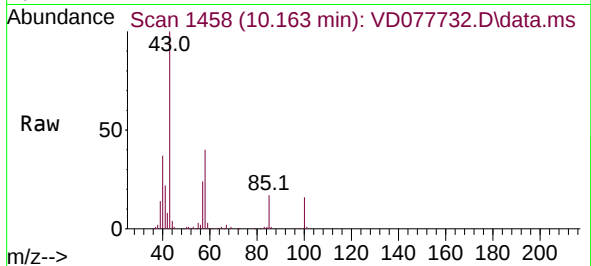




#40  
4-Methyl-2-pentanone  
Concen: 45.839 ug/L  
RT: 10.163 min Scan# 1458  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

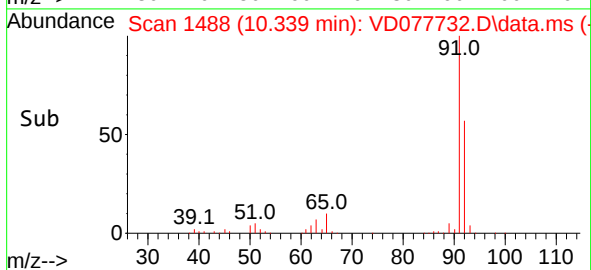
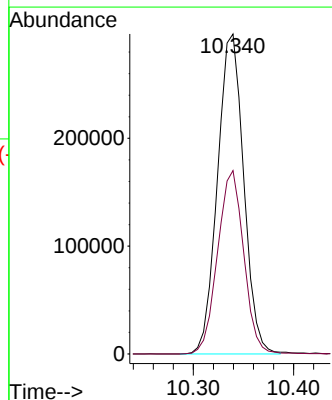
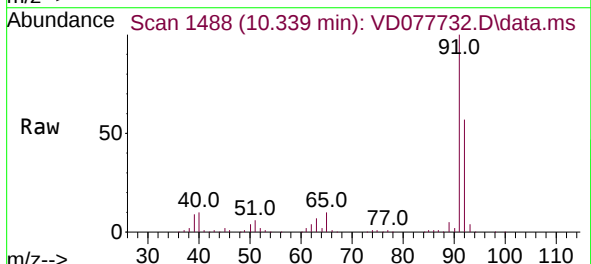
Instrument :  
MSVOA\_D  
ClientSampleId :

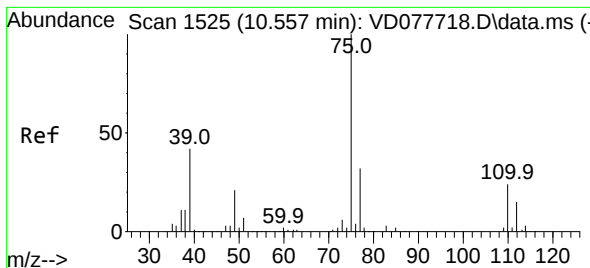
Tgt Ion: 43 Resp: 124090  
Ion Ratio Lower Upper  
43 100  
58 39.5 31.0 46.4  
100 16.6 11.9 17.9



#42  
Toluene  
Concen: 26.972 ug/L  
RT: 10.339 min Scan# 1488  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 91 Resp: 539034  
Ion Ratio Lower Upper  
91 100  
92 57.3 41.6 77.3





#44

trans-1,3-Dichloropropene

Concen: 25.122 ug/L

RT: 10.557 min Scan# 1525

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

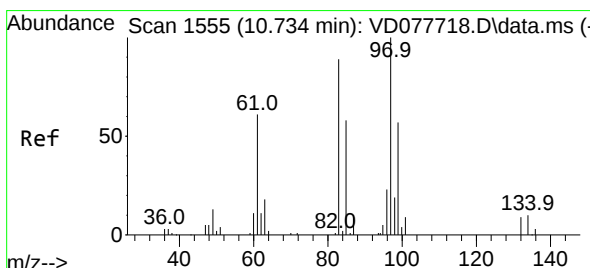
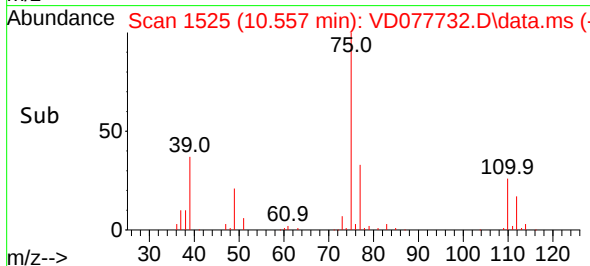
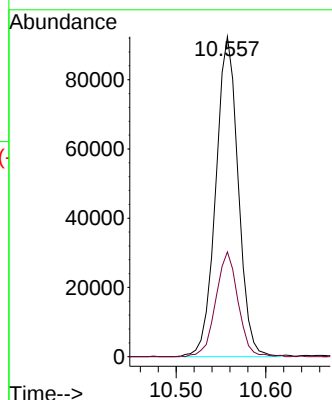
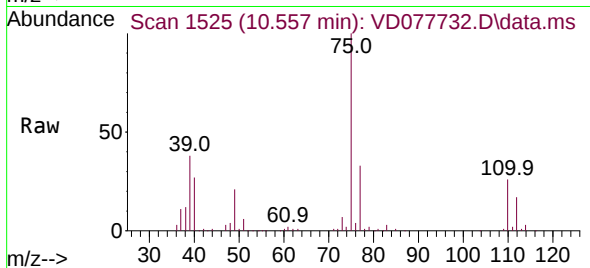
ClientSampleId :

Tgt Ion: 75 Resp: 160748

Ion Ratio Lower Upper

75 100

77 32.8 22.0 40.8



#45

1,1,2-Trichloroethane

Concen: 26.255 ug/L

RT: 10.739 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Tgt Ion: 97 Resp: 86502

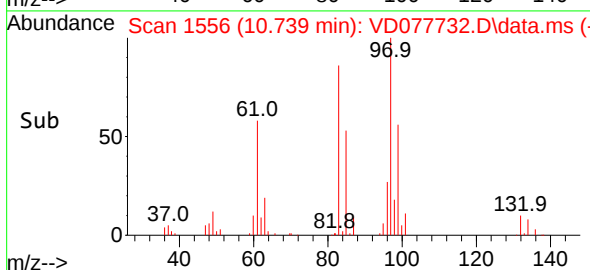
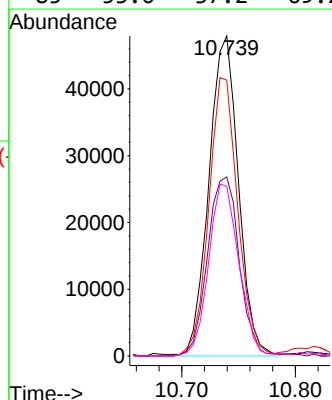
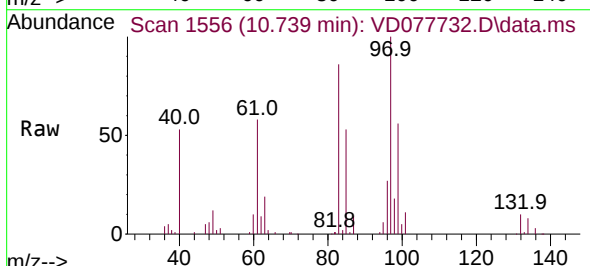
Ion Ratio Lower Upper

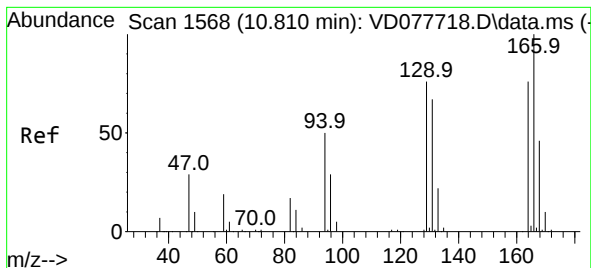
97 100

99 55.9 41.7 77.5

83 86.2 63.6 118.2

85 53.0 37.2 69.2





#46

Tetrachloroethene

Concen: 27.102 ug/L

RT: 10.810 min Scan# 1568

Delta R.T. -0.000 min

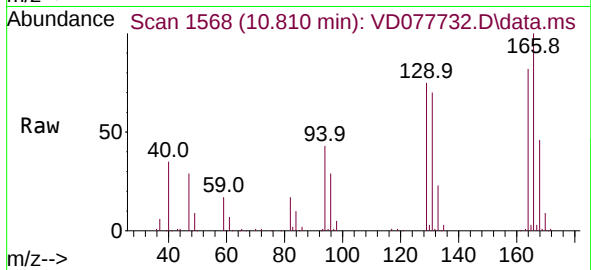
Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion:164 Resp: 102073

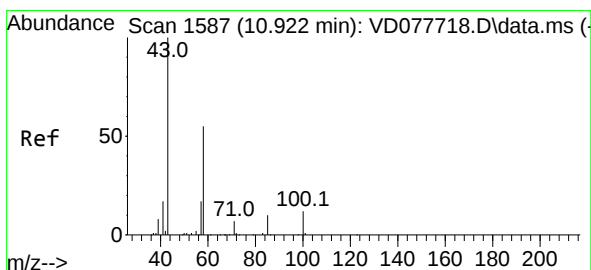
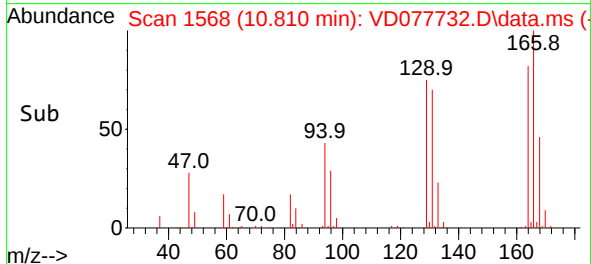
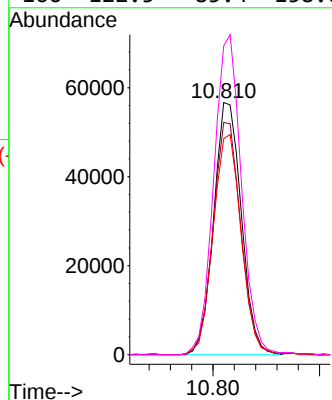
Ion Ratio Lower Upper

164 100

129 92.1 61.5 114.3

131 85.7 59.1 109.9

166 122.5 85.4 158.6



#48

2-Hexanone

Concen: 47.001 ug/L

RT: 10.922 min Scan# 1587

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Tgt Ion: 43 Resp: 108148

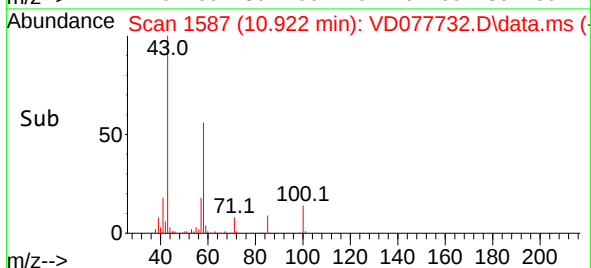
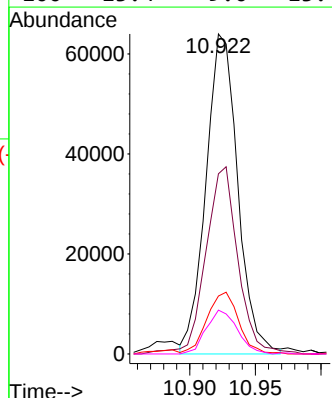
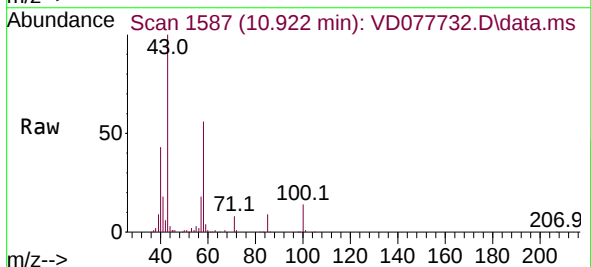
Ion Ratio Lower Upper

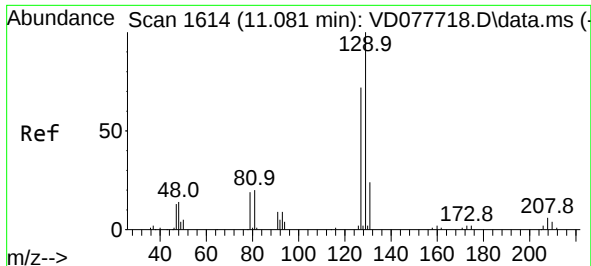
43 100

58 59.1 43.0 64.6

57 19.1 13.8 20.8

100 13.4 9.0 13.4





#49

Dibromochloromethane

Concen: 25.568 ug/L

RT: 11.081 min Scan# 1614

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

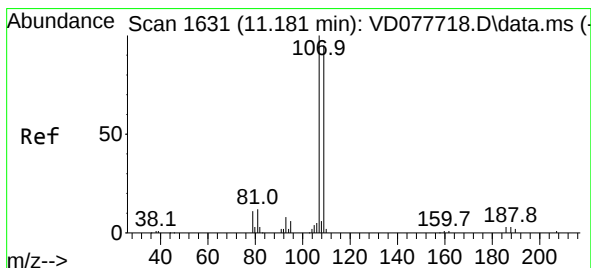
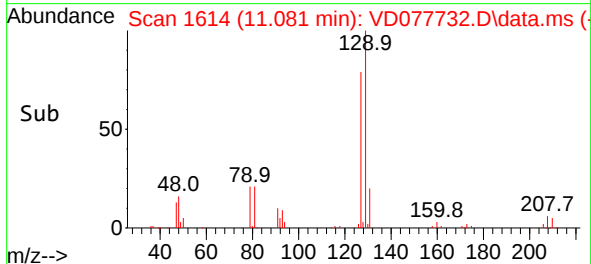
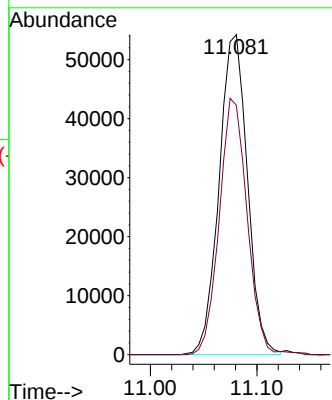
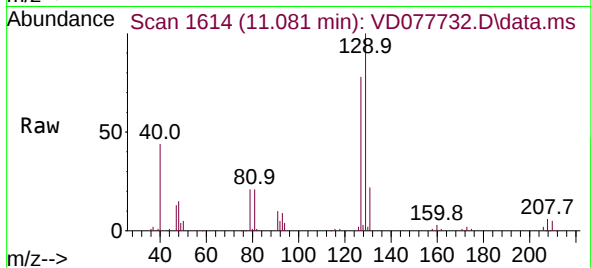
ClientSampleId :

Tgt Ion:129 Resp: 100166

Ion Ratio Lower Upper

129 100

127 77.9 52.8 98.2



#50

1,2-Dibromoethane

Concen: 24.947 ug/L

RT: 11.181 min Scan# 1631

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

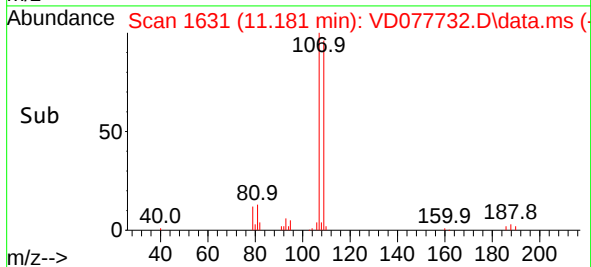
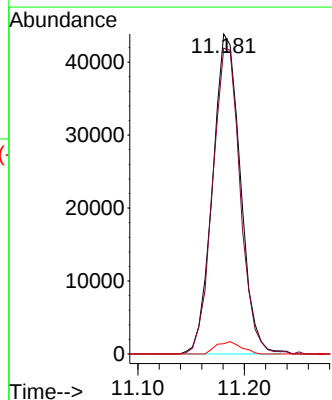
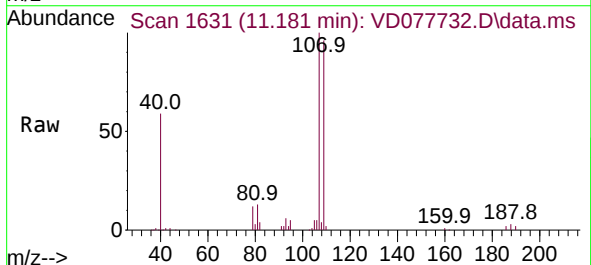
Tgt Ion:107 Resp: 79267

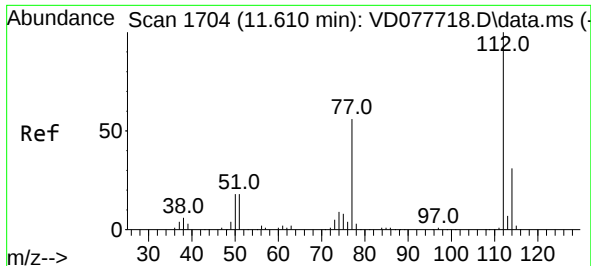
Ion Ratio Lower Upper

107 100

109 95.5 64.2 119.2

188 3.2 2.3 3.5

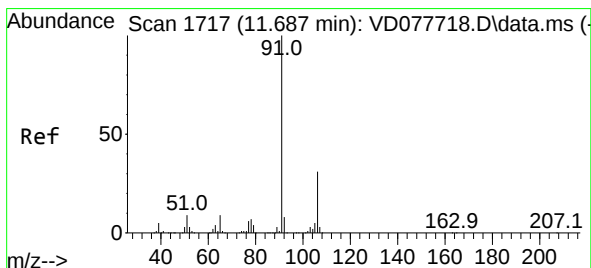
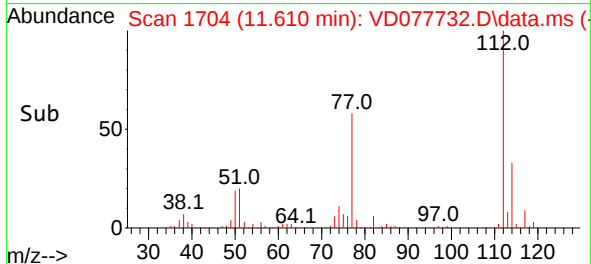
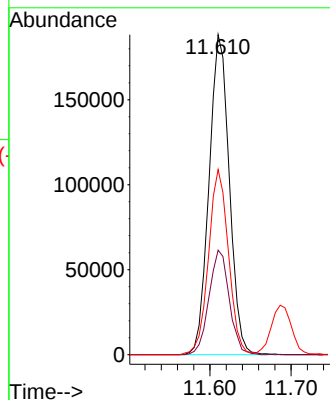
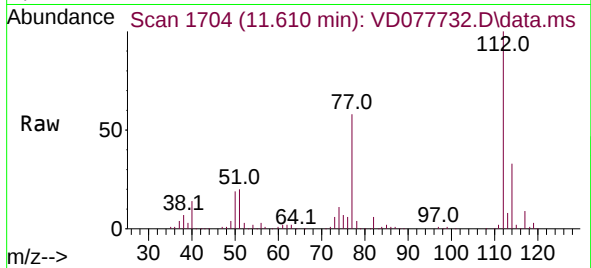




#51  
Chlorobenzene  
Concen: 26.279 ug/L  
RT: 11.610 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

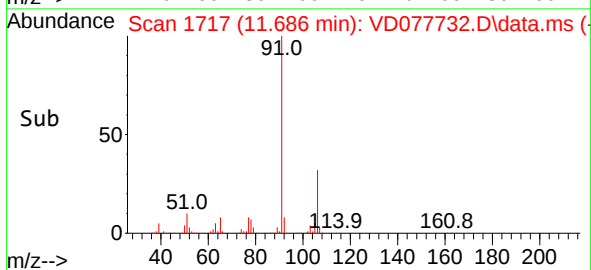
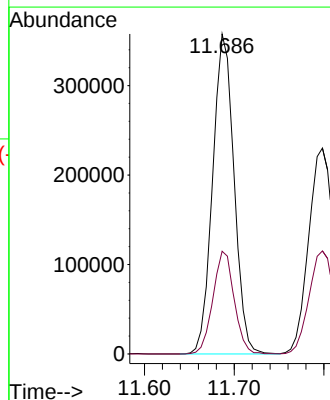
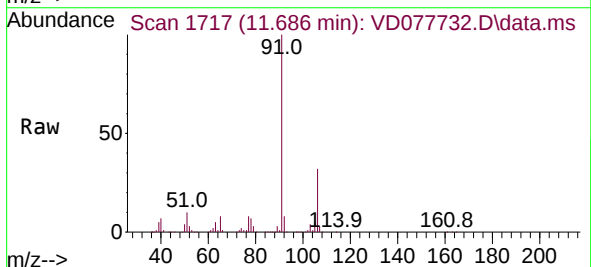
Instrument :  
MSVOA\_D  
ClientSampleId :

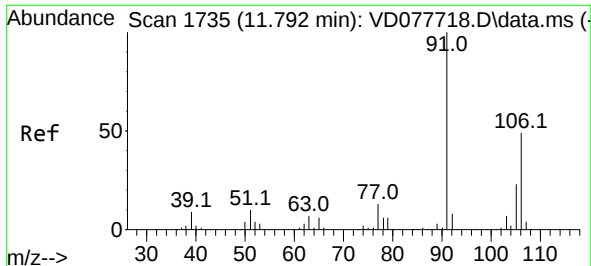
Tgt Ion:112 Resp: 325657  
Ion Ratio Lower Upper  
112 100  
114 32.7 22.5 41.9  
77 57.9 46.4 69.6



#52  
Ethylbenzene  
Concen: 26.768 ug/L  
RT: 11.686 min Scan# 1717  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 91 Resp: 593032  
Ion Ratio Lower Upper  
91 100  
106 32.1 22.4 41.6

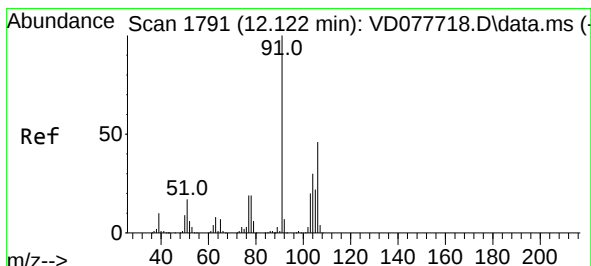
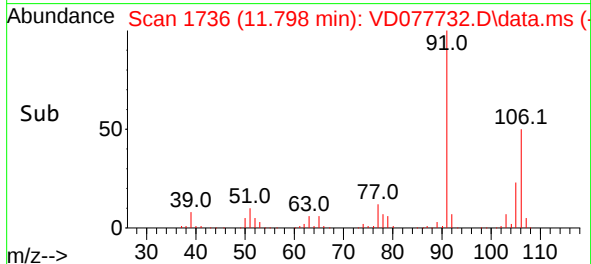
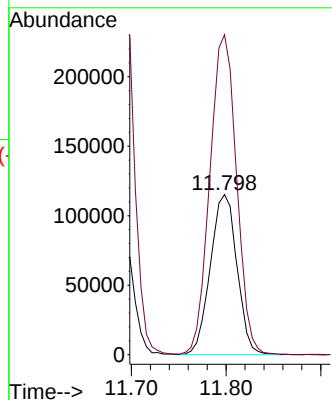
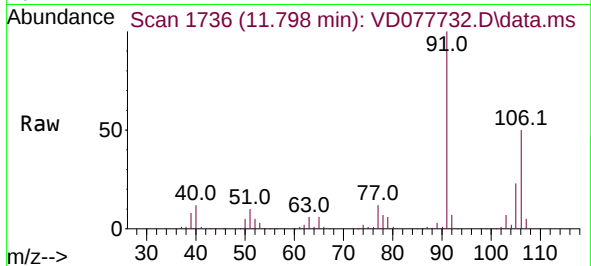




#53  
m,p-Xylene  
Concen: 26.835 ug/L  
RT: 11.798 min Scan# 1736  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

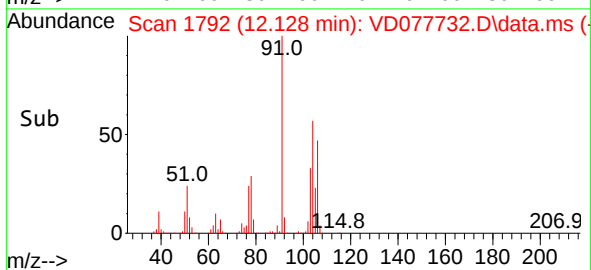
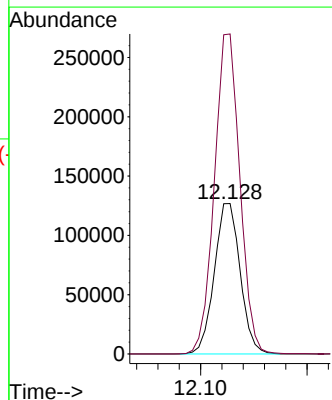
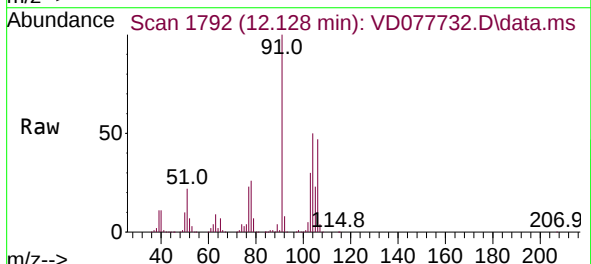
Instrument :  
MSVOA\_D  
ClientSampleId :

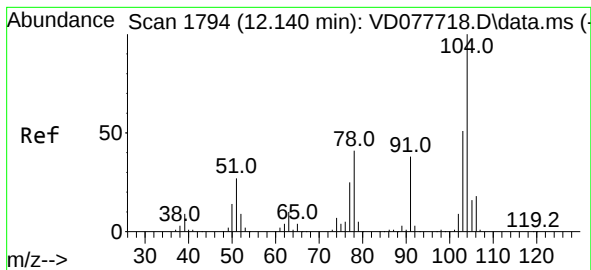
Tgt Ion:106 Resp: 224639  
Ion Ratio Lower Upper  
106 100  
91 199.8 140.8 261.6



#54  
o-Xylene  
Concen: 26.630 ug/L  
RT: 12.128 min Scan# 1792  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion:106 Resp: 213342  
Ion Ratio Lower Upper  
106 100  
91 212.7 152.2 282.7





#55

Styrene

Concen: 26.777 ug/L

RT: 12.139 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

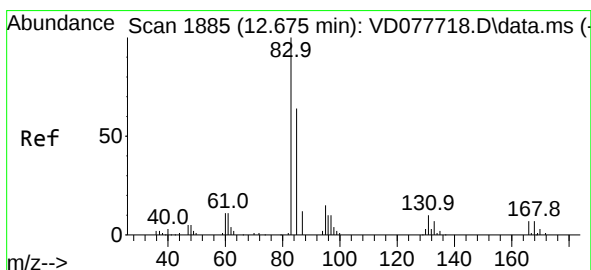
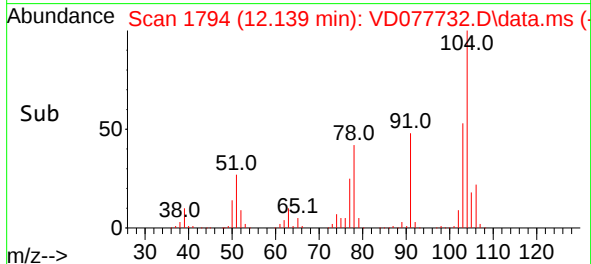
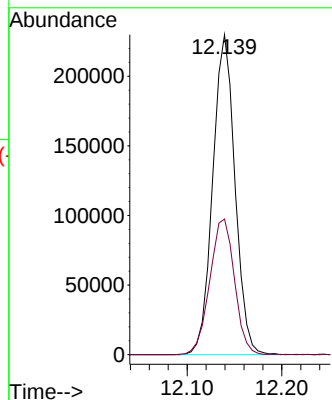
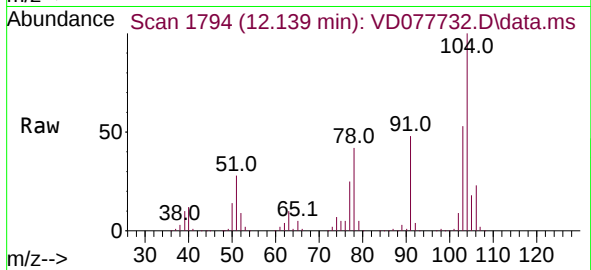
ClientSampleId :

Tgt Ion:104 Resp: 375373

Ion Ratio Lower Upper

104 100

78 42.4 30.9 57.5



#57

1,1,2,2-Tetrachloroethane

Concen: 24.758 ug/L

RT: 12.681 min Scan# 1886

Delta R.T. 0.006 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

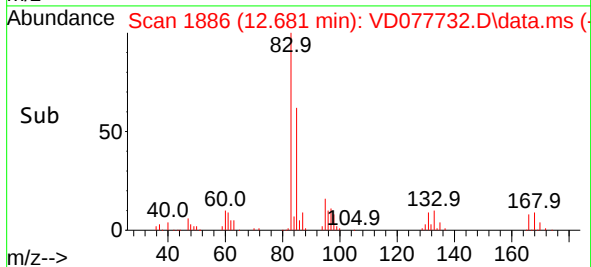
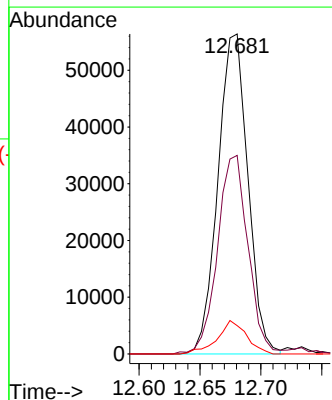
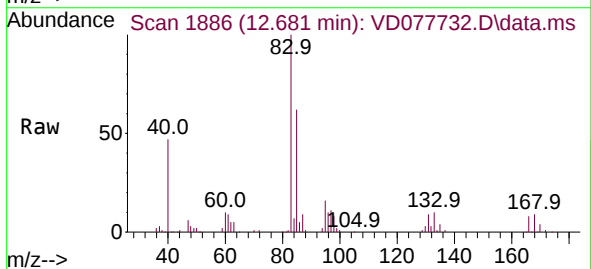
Tgt Ion: 83 Resp: 96654

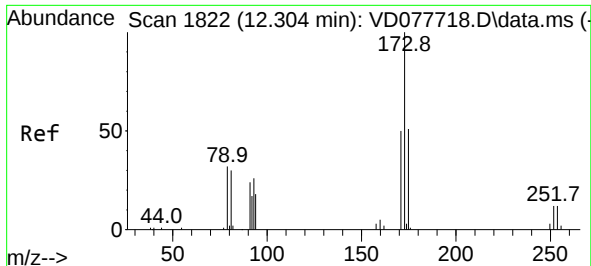
Ion Ratio Lower Upper

83 100

85 62.0 43.3 80.5

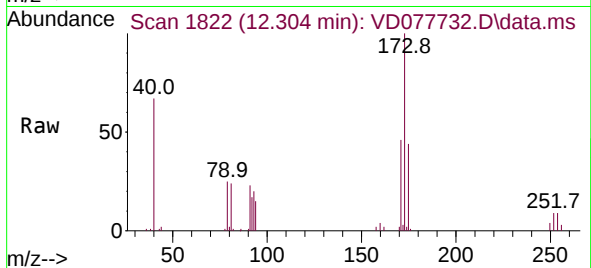
131 8.8 7.3 10.9



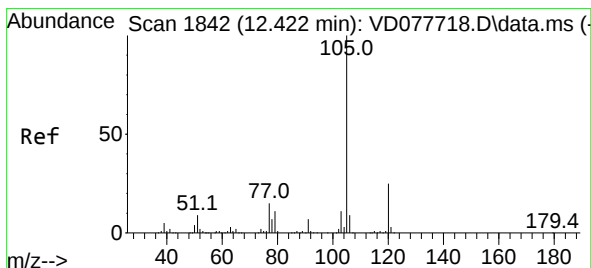
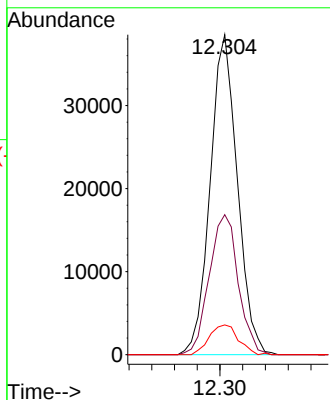
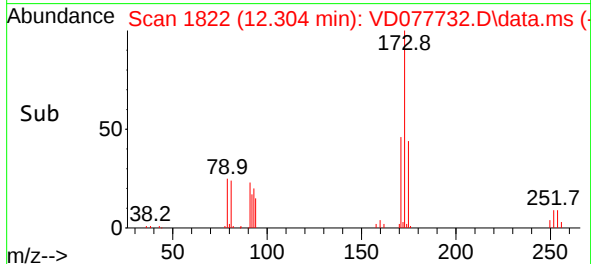


#59  
Bromoform  
Concen: 25.792 ug/L  
RT: 12.304 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Instrument :  
MSVOA\_D  
ClientSampleId :

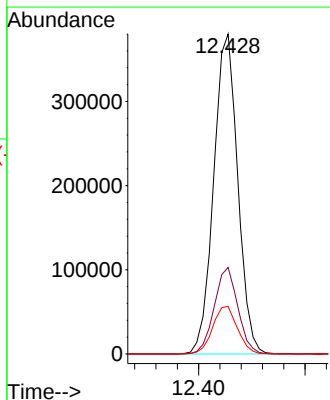
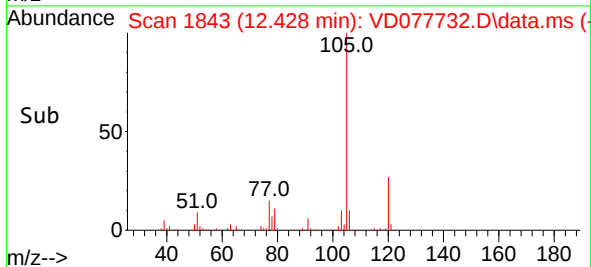
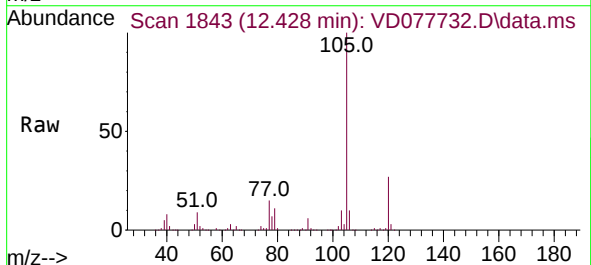


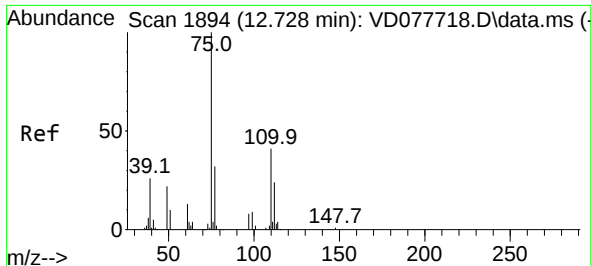
Tgt Ion:173 Resp: 64020  
Ion Ratio Lower Upper  
173 100  
175 46.7 38.7 58.1  
254 9.9 1.8 2.8#



#60  
Isopropylbenzene  
Concen: 26.565 ug/L  
RT: 12.428 min Scan# 1843  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion:105 Resp: 594807  
Ion Ratio Lower Upper  
105 100  
120 26.5 21.3 31.9  
77 15.3 12.6 18.8

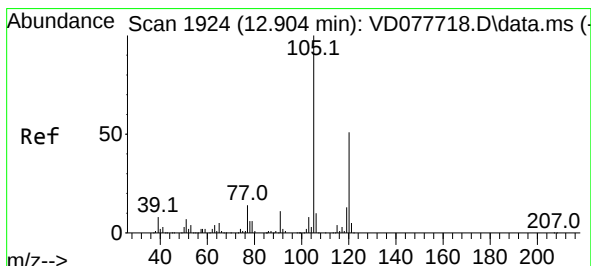
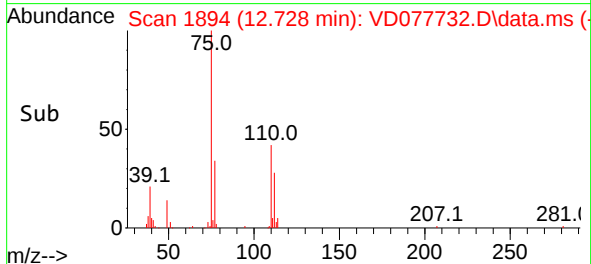
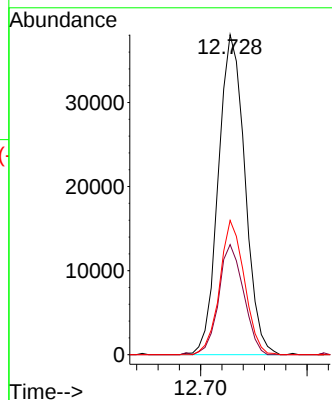
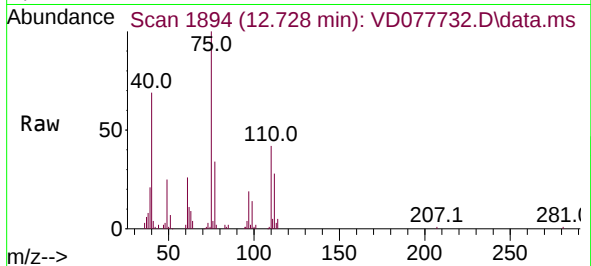




#61  
1,2,3-Trichloropropane  
Concen: 23.900 ug/L  
RT: 12.728 min Scan# 1894  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

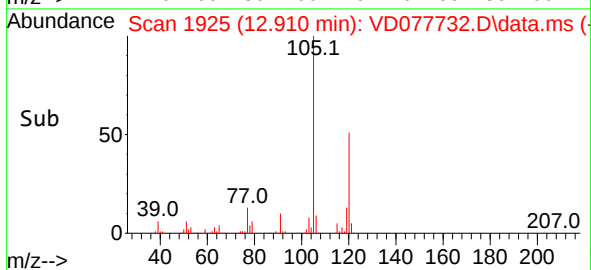
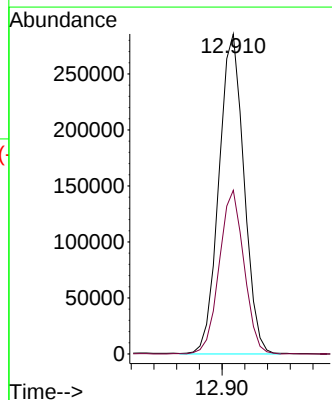
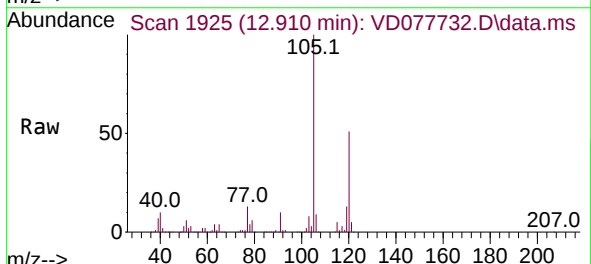
Instrument :  
MSVOA\_D  
ClientSampleId :

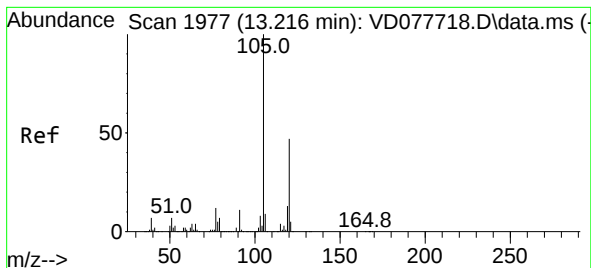
Tgt Ion: 75 Resp: 65948  
Ion Ratio Lower Upper  
75 100  
77 32.1 26.8 40.2  
110 39.0 33.4 50.2



#62  
1,3,5-Trimethylbenzene  
Concen: 26.011 ug/L  
RT: 12.910 min Scan# 1925  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion: 105 Resp: 437435  
Ion Ratio Lower Upper  
105 100  
120 50.4 39.5 59.3





#63

1,2,4-Trimethylbenzene

Concen: 26.277 ug/L

RT: 13.216 min Scan# 1977

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

Instrument :

MSVOA\_D

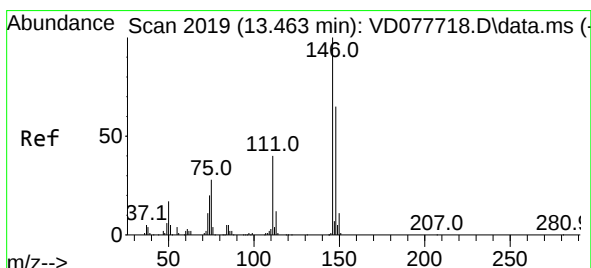
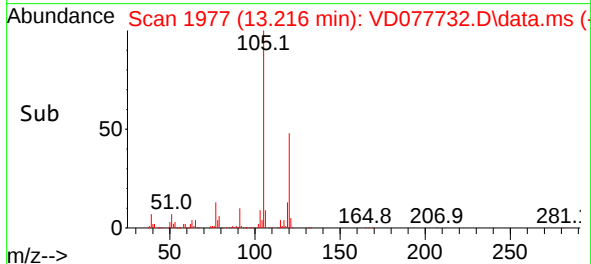
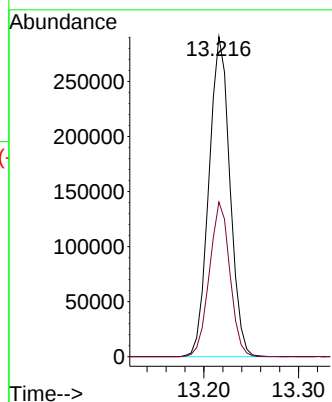
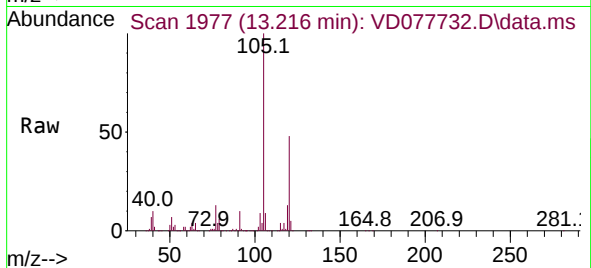
ClientSampleId :

Tgt Ion:105 Resp: 448066

Ion Ratio Lower Upper

105 100

120 47.1 37.1 55.7



#64

1,3-Dichlorobenzene

Concen: 26.092 ug/L

RT: 13.463 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VD077732.D

Acq: 04 Dec 2023 09:00

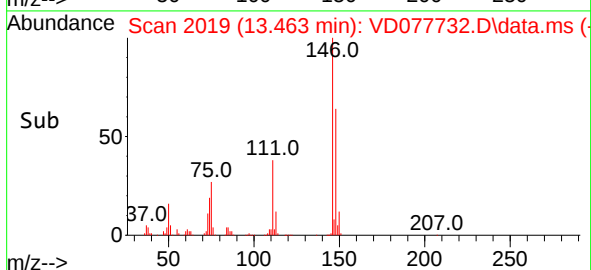
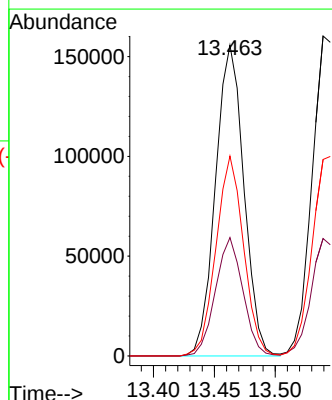
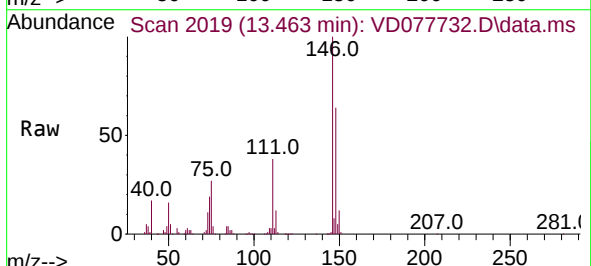
Tgt Ion:146 Resp: 252663

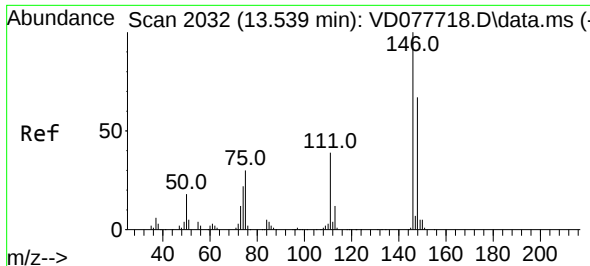
Ion Ratio Lower Upper

146 100

111 38.1 26.6 49.4

148 64.3 44.0 81.6

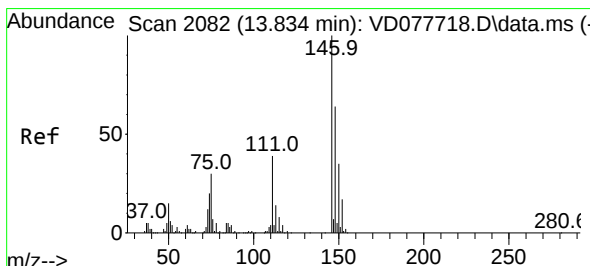
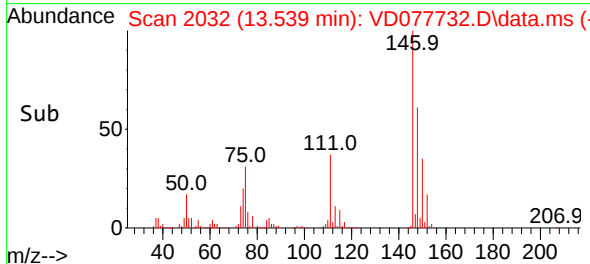
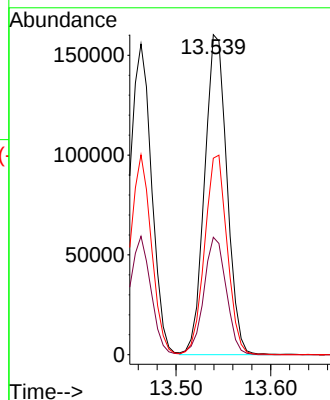
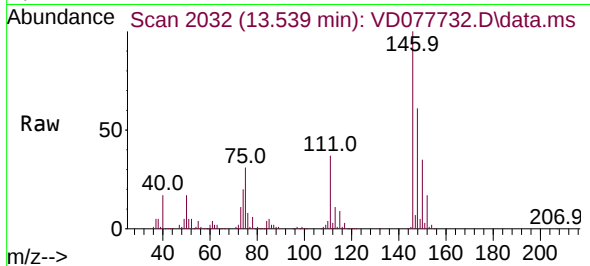




#65  
1,4-Dichlorobenzene  
Concen: 26.165 ug/L  
RT: 13.539 min Scan# 2032  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

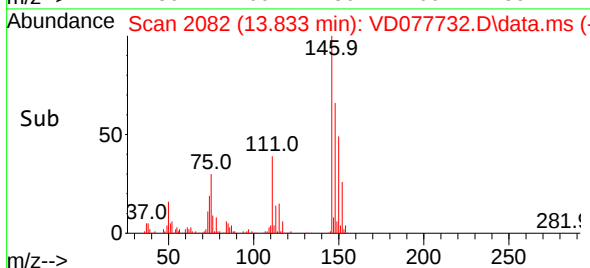
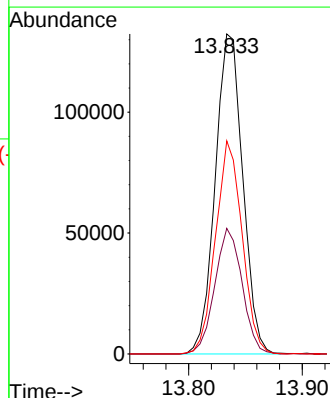
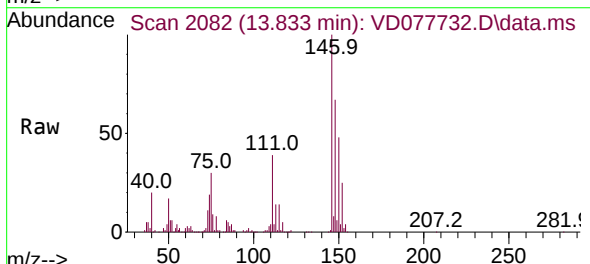
Instrument :  
MSVOA\_D  
ClientSampleId :

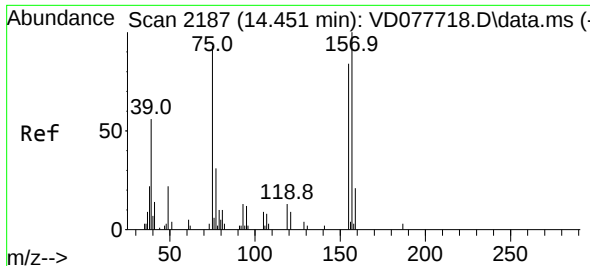
Tgt Ion:146 Resp: 262905  
Ion Ratio Lower Upper  
146 100  
111 36.7 26.4 49.0  
148 61.4 44.0 81.8



#67  
1,2-Dichlorobenzene  
Concen: 25.624 ug/L  
RT: 13.833 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion:146 Resp: 223277  
Ion Ratio Lower Upper  
146 100  
111 39.2 31.4 47.2  
148 66.6 50.2 75.2

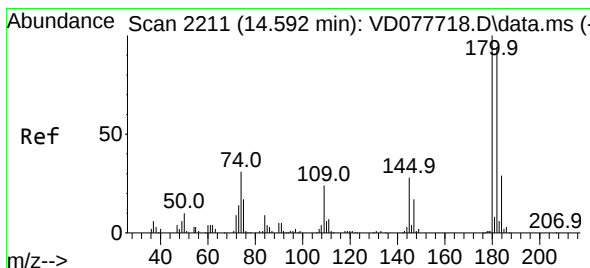
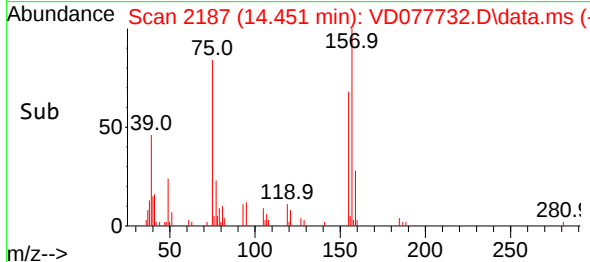
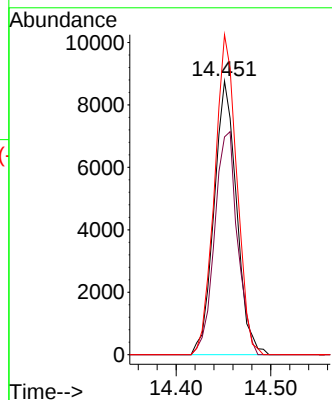
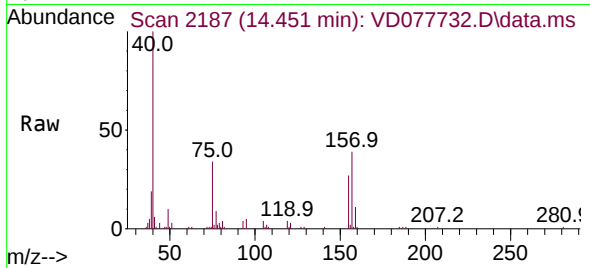




#68  
1,2-Dibromo-3-chloropropane  
Concen: 22.226 ug/L  
RT: 14.451 min Scan# 2187  
Delta R.T. -0.000 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

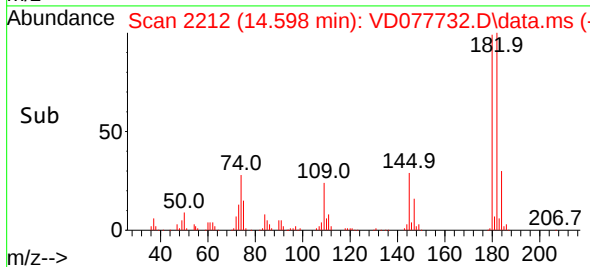
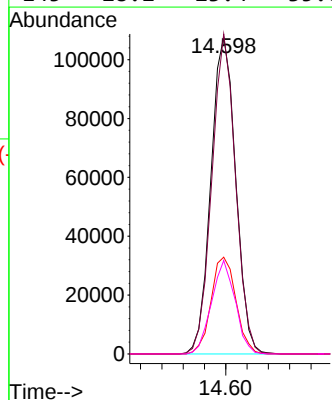
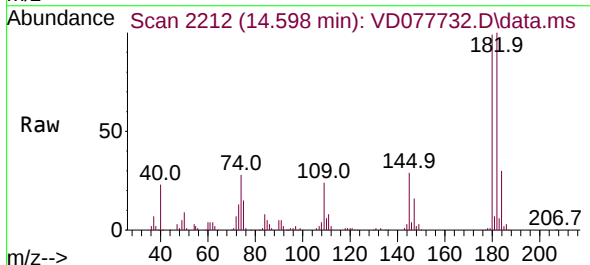
Instrument :  
MSVOA\_D  
ClientSampleId :

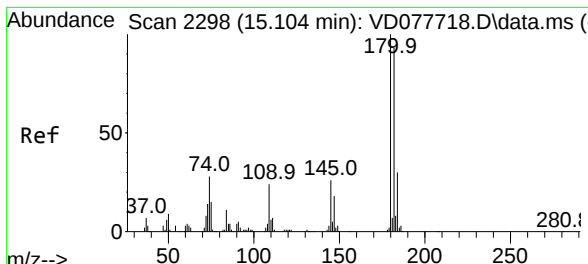
Tgt Ion: 75 Resp: 14461  
Ion Ratio Lower Upper  
75 100  
155 79.6 69.2 103.8  
157 117.0 86.6 130.0



#69  
1,3,5-Trichlorobenzene  
Concen: 26.299 ug/L  
RT: 14.598 min Scan# 2212  
Delta R.T. 0.006 min  
Lab File: VD077732.D  
Acq: 04 Dec 2023 09:00

Tgt Ion:180 Resp: 173411  
Ion Ratio Lower Upper  
180 100  
182 96.5 77.0 115.4  
184 30.7 24.3 36.5  
145 28.2 23.4 35.0



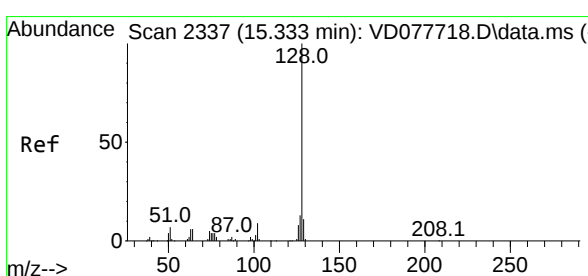
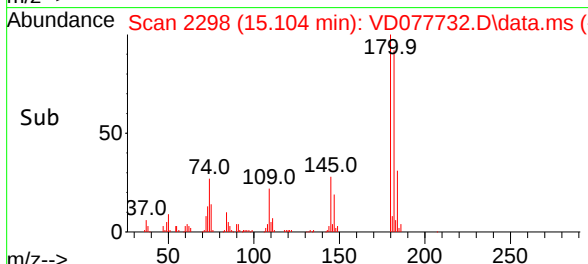
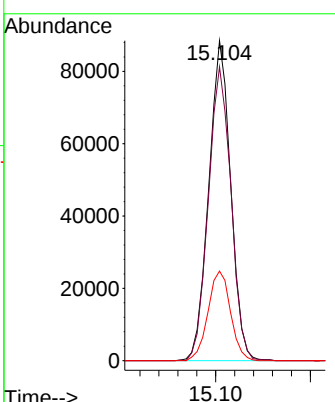
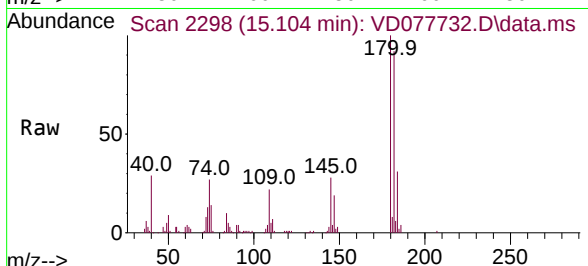


#70  
 1,2,4-trichlorobenzene  
 Concen: 25.460 ug/L  
 RT: 15.104 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VD077732.D  
 Acq: 04 Dec 2023 09:00

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tgt Ion:180 Resp: 142520

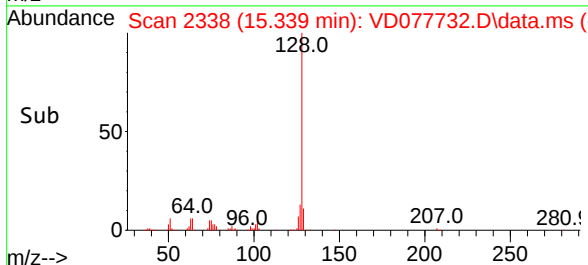
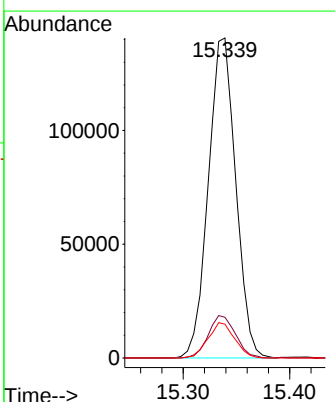
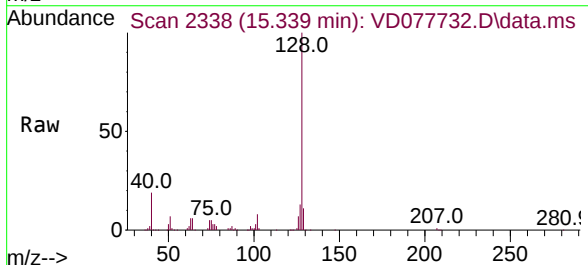
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.3  | 77.0  | 115.6 |
| 145 | 28.7  | 23.9  | 35.9  |

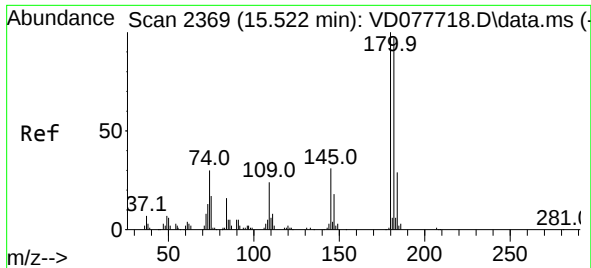


#71  
 Naphthalene  
 Concen: 24.588 ug/L  
 RT: 15.339 min Scan# 2338  
 Delta R.T. 0.006 min  
 Lab File: VD077732.D  
 Acq: 04 Dec 2023 09:00

Tgt Ion:128 Resp: 251630

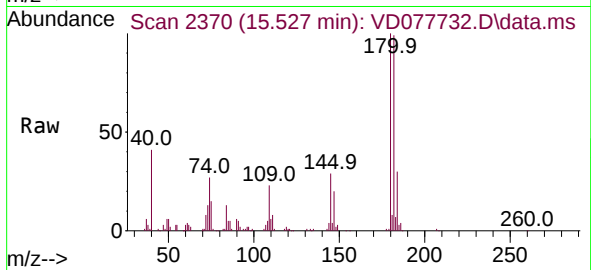
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.1  | 10.5  | 15.7  |
| 129 | 10.7  | 8.7   | 13.1  |





#72  
 1,2,3-Trichlorobenzene  
 Concen: 24.664 ug/L  
 RT: 15.527 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VD077732.D  
 Acq: 04 Dec 2023 09:00

Instrument :  
 MSVOA\_D  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 121030 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 97.5  | 77.3  | 115.9  |
| 145      | 31.0  | 25.2  | 37.8   |

