

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV111723\  
 Data File : VV032970.D  
 Acq On : 16 Nov 2023 17:36  
 Operator : SY/MD  
 Sample : VSTD0.5  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 17 00:30:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 17 00:29:50 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 5.535  | 114  | 167138   | 5.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789  | 117  | 172885   | 5.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188 | 152  | 82024    | 5.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65   | 7188     | 0.505 | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.574  | 69   | 337      | 0.025 | ug/L   | 0.04     |
| 11) 1,1-Dichloroethene-d2     | 2.059  | 65   | 3665     | 0.584 | ug/L   | 0.00     |
| 20) 2-Butanone-d5             | 3.780  | 46   | 310      | 0.164 | ug/L   | -0.02    |
| 24) Chloroform-d              | 4.262  | 84   | 11756    | 0.481 | ug/L   | 0.01     |
| 26) 1,2-Dichloroethane-d4     | 4.963  | 65   | 5336     | 0.494 | ug/L   | 0.02     |
| 32) Benzene-d6                | 4.969  | 84   | 20846    | 0.459 | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 5.998  | 67   | 6172     | 0.478 | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.249  | 98   | 18168    | 0.425 | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 7.574  | 79   | 2357     | 0.469 | ug/L   | 0.02     |
| 46) 2-Hexanone-d5             | 8.040  | 63   | 5600     | 3.340 | ug/L   | 0.01     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156 | 84   | 4719     | 0.496 | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 11.567 | 152  | 7860     | 0.551 | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108  | 85   | 9568     | 0.524 | ug/L   | 98       |
| 3) Chloromethane              | 1.217  | 50   | 9608     | 0.529 | ug/L   | 89       |
| 5) Vinyl chloride             | 1.285  | 62   | 8545     | 0.495 | ug/L   | 86       |
| 6) Bromomethane               | 1.487  | 94   | 6682     | 0.543 | ug/L   | 95       |
| 8) Chloroethane               | 1.548  | 64   | 5577     | 0.431 | ug/L   | 92       |
| 9) Trichlorofluoromethane     | 1.715  | 101  | 13809    | 0.516 | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101  | 8335     | 0.549 | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.072  | 96   | 7420     | 0.526 | ug/L   | 95       |
| 13) Acetone                   | 2.121  | 43   | 10572    | 6.006 | ug/L   | 94       |
| 14) Carbon disulfide          | 2.243  | 76   | 21241    | 0.521 | ug/L   | 99       |
| 15) Methyl Acetate            | 2.394  | 43   | 1920     | 0.492 | ug/L # | 64       |
| 16) Methylene chloride        | 2.449  | 84   | 10746    | 0.643 | ug/L   | 94       |
| 17) Methyl tert-butyl Ether   | 2.709  | 73   | 11084    | 0.471 | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 2.699  | 96   | 6941     | 0.517 | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.114  | 63   | 12444    | 0.524 | ug/L   | 92       |
| 21) 2-Butanone                | 3.857  | 43   | 178      | 0.084 | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 3.825  | 96   | 6238     | 0.455 | ug/L   | 92       |
| 23) Bromochloromethane        | 4.159  | 128  | 3082     | 0.490 | ug/L   | 92       |
| 25) Chloroform                | 4.284  | 83   | 13858    | 0.529 | ug/L   | 90       |
| 27) 1,2-Dichloroethane        | 5.053  | 62   | 7098     | 0.509 | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane     | 4.519  | 97   | 12441    | 0.521 | ug/L # | 85       |
| 30) Cyclohexane               | 4.587  | 56   | 8008     | 0.481 | ug/L # | 91       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 9955     | 0.482 | ug/L   | 91       |
| 33) Benzene                   | 5.021  | 78   | 22299    | 0.437 | ug/L   | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 6717     | 0.478 | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.053  | 83   | 8525     | 0.458 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 6057     | 0.477 | ug/L # | 93       |
| 38) Bromodichloromethane      | 6.442  | 83   | 8639     | 0.494 | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene   | 6.969  | 75   | 7616     | 0.438 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.165  | 43   | 20050    | 4.005 | ug/L   | 91       |
| 42) Toluene                   | 7.323  | 91   | 23631    | 0.426 | ug/L   | 91       |
| 44) trans-1,3-Dichloropropene | 7.596  | 75   | 5815     | 0.416 | ug/L   | 88       |

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 Operator : SY/MD  
 Sample : VSTD0.5  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

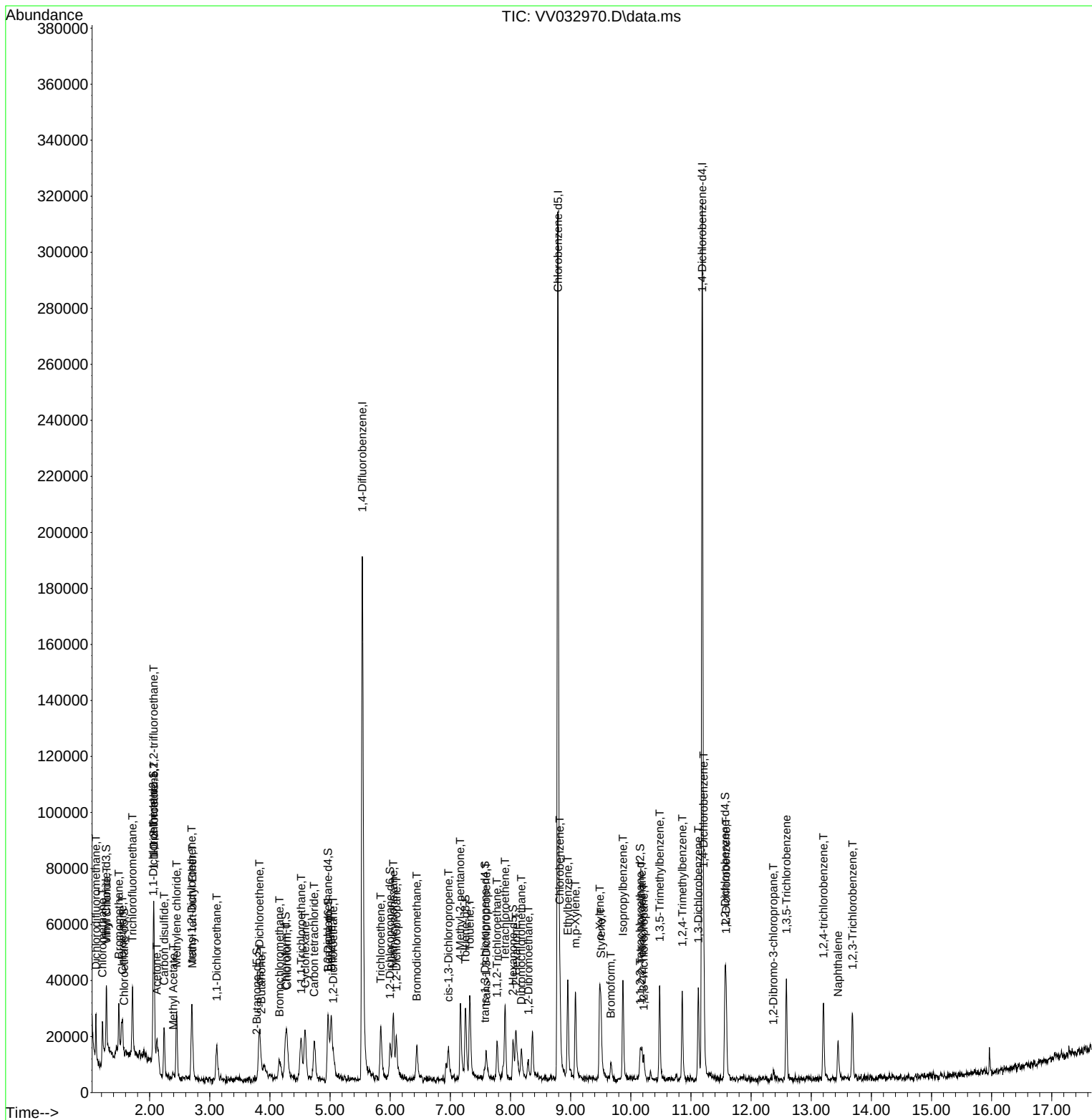
Instrument :  
 MSVOA\_V  
 ClientSampleId :

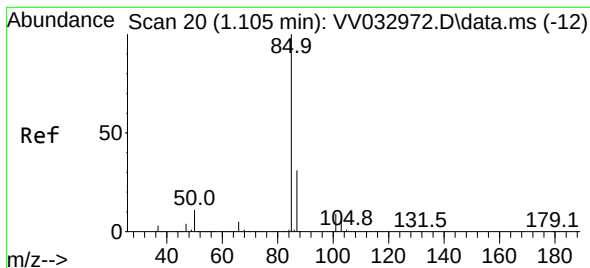
Quant Time: Nov 17 00:30:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 17 00:29:50 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 4239     | 0.464 | ug/L   | 93       |
| 47) Tetrachloroethene         | 7.908  | 164  | 5913     | 0.500 | ug/L   | 87       |
| 48) 2-Hexanone                | 8.091  | 43   | 13057    | 3.552 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.181  | 129  | 5291     | 0.483 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.297  | 107  | 4282     | 0.490 | ug/L # | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 17915    | 0.481 | ug/L   | 96       |
| 52) Ethylbenzene              | 8.953  | 91   | 23324    | 0.404 | ug/L   | 100      |
| 53) m,p-Xylene                | 9.082  | 106  | 8954     | 0.402 | ug/L   | 98       |
| 54) o-Xylene                  | 9.484  | 106  | 8364     | 0.393 | ug/L   | 100      |
| 55) Styrene                   | 9.506  | 104  | 13341    | 0.364 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 5320     | 0.522 | ug/L # | 97       |
| 59) Bromoform                 | 9.667  | 173  | 2473     | 0.478 | ug/L # | 89       |
| 60) Isopropylbenzene          | 9.869  | 105  | 21712    | 0.427 | ug/L # | 94       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 3271     | 0.546 | ug/L # | 84       |
| 62) 1,3,5-Trimethylbenzene    | 10.480 | 105  | 17097    | 0.429 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 16098    | 0.401 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.123 | 146  | 13340    | 0.494 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 11.213 | 146  | 14323    | 0.520 | ug/L   | 93       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 11960    | 0.496 | ug/L   | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 883      | 0.615 | ug/L # | 73       |
| 69) 1,3,5-Trichlorobenzene    | 12.586 | 180  | 10632    | 0.531 | ug/L   | 95       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 9018     | 0.555 | ug/L   | 91       |
| 71) Naphthalene               | 13.445 | 128  | 10602    | 0.469 | ug/L # | 93       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 6995     | 0.494 | ug/L   | 98       |
| -----                         |        |      |          |       |        |          |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111723WMA.M  
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QLast Update : Fri Nov 17 00:29:50 2023  
Response via : Initial Calibration

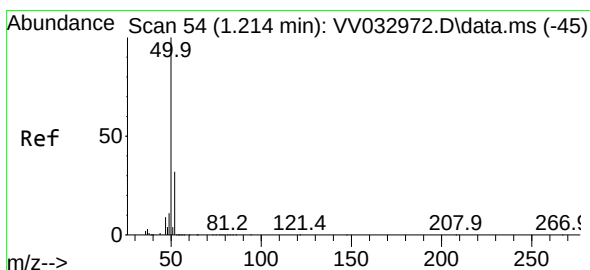
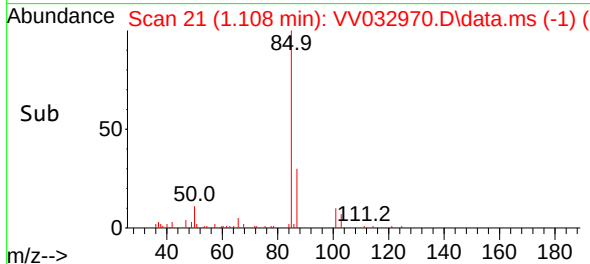
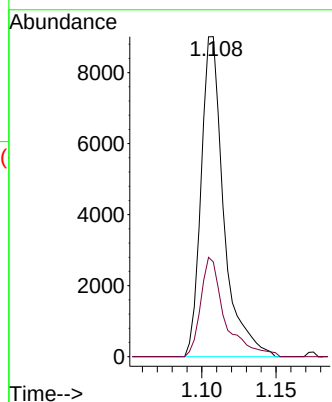
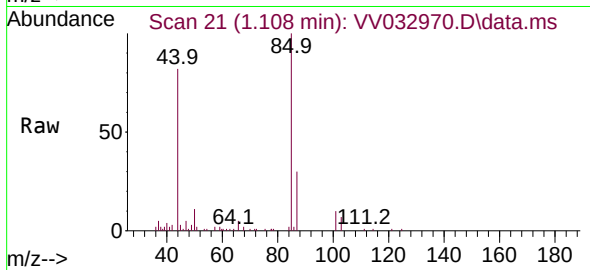




#2  
 Dichlorodifluoromethane  
 Concen: 0.524 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

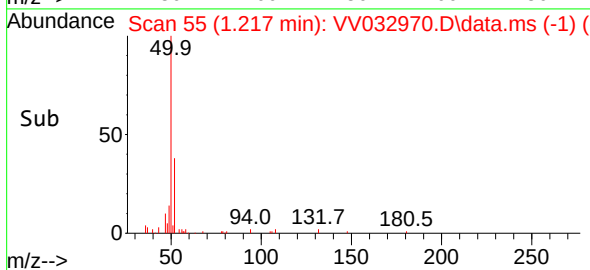
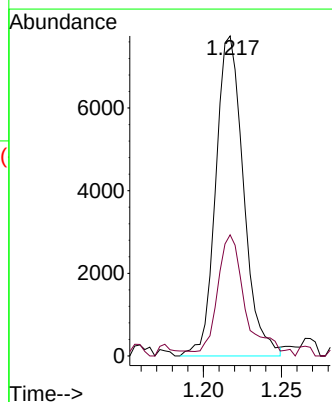
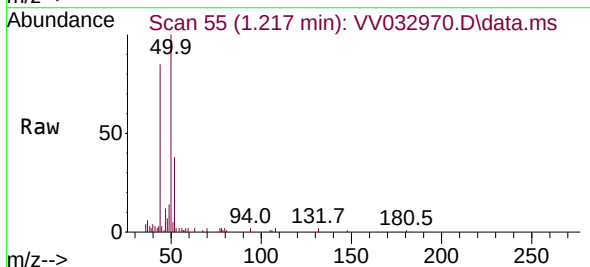
Instrument :  
 MSVOA\_V  
 ClientSampleId :

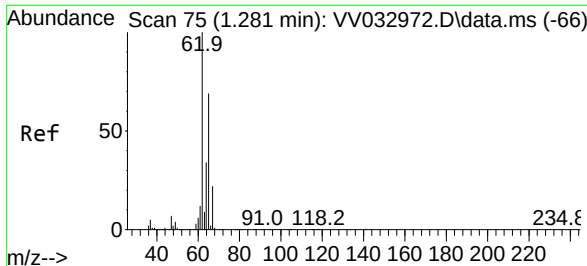
Tgt Ion: 85 Resp: 9568  
 Ion Ratio Lower Upper  
 85 100  
 87 33.2 25.4 38.2



#3  
 Chloromethane  
 Concen: 0.529 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.003 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

Tgt Ion: 50 Resp: 9608  
 Ion Ratio Lower Upper  
 50 100  
 52 37.9 22.3 41.3

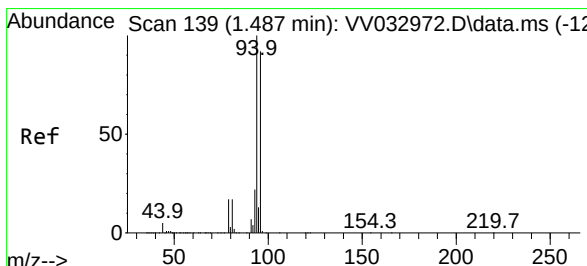
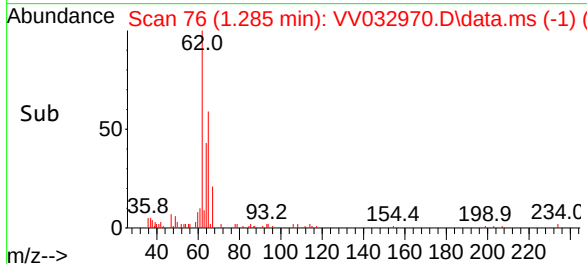
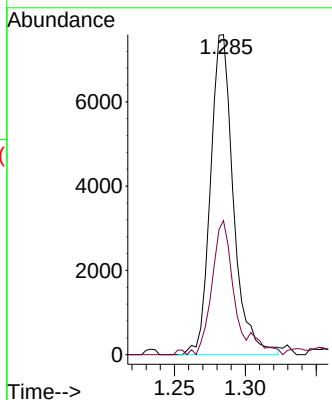
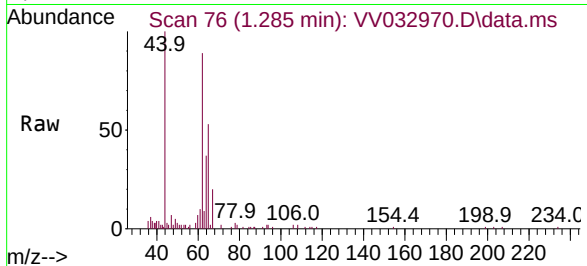




#5  
 Vinyl chloride  
 Concen: 0.495 ug/L  
 RT: 1.285 min Scan# 75  
 Delta R.T. 0.003 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

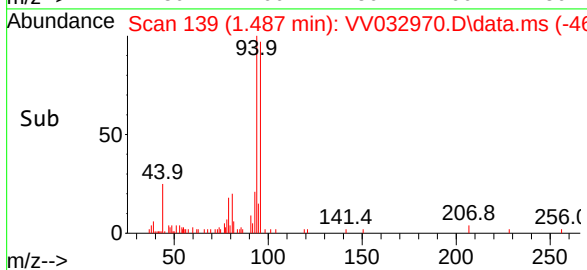
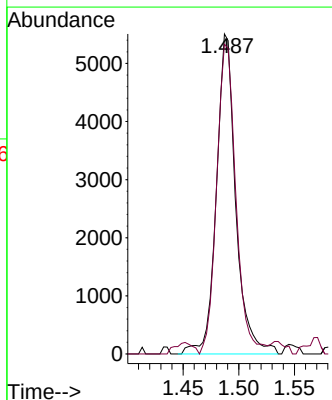
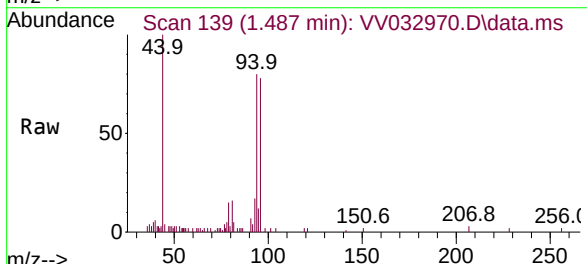
Instrument :  
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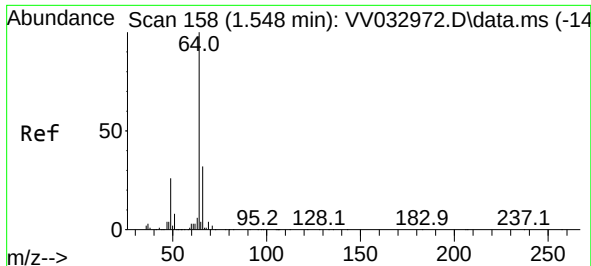
Tgt Ion: 62 Resp: 8545  
 Ion Ratio Lower Upper  
 62 100  
 64 41.9 23.7 43.9



#6  
 Bromomethane  
 Concen: 0.543 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. -0.000 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

Tgt Ion: 94 Resp: 6682  
 Ion Ratio Lower Upper  
 94 100  
 96 96.8 64.3 119.3

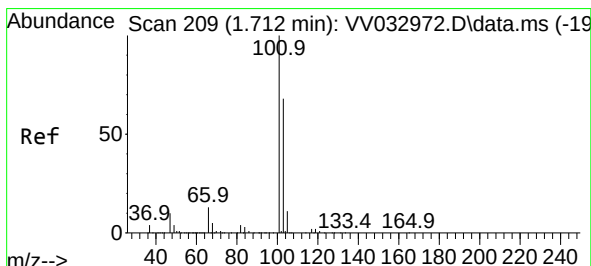
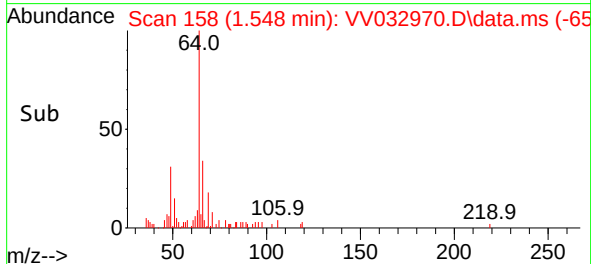
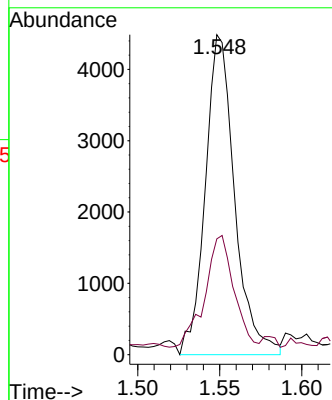
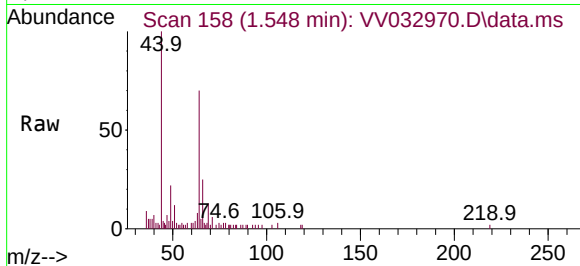




#8  
Chloroethane  
Concen: 0.431 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

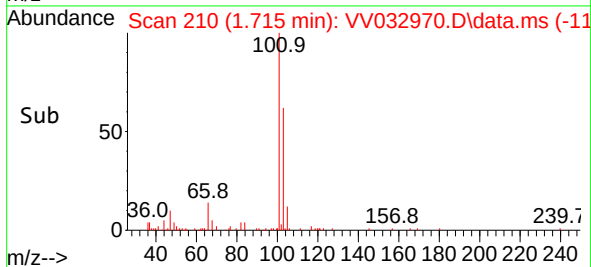
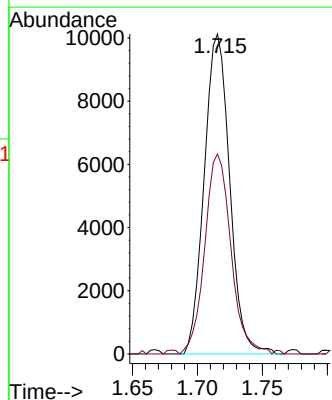
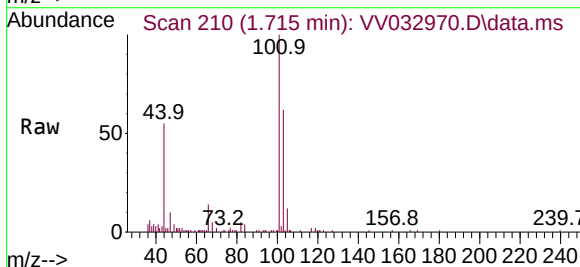
Instrument :  
MSVOA\_V  
ClientSampleId :

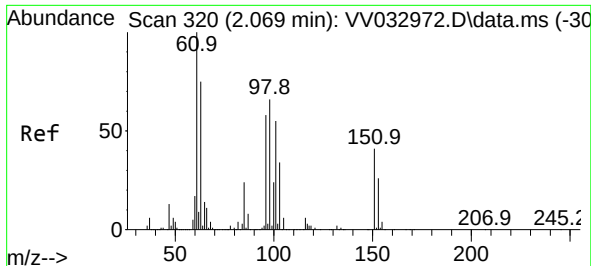
Tgt Ion: 64 Resp: 5577  
Ion Ratio Lower Upper  
64 100  
66 36.2 22.3 41.5



#9  
Trichlorofluoromethane  
Concen: 0.516 ug/L  
RT: 1.715 min Scan# 210  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion:101 Resp: 13809  
Ion Ratio Lower Upper  
101 100  
103 64.4 53.0 79.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.549 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV032970.D

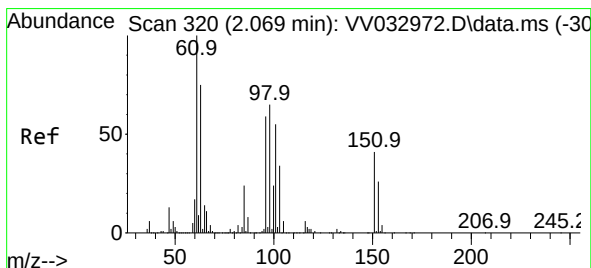
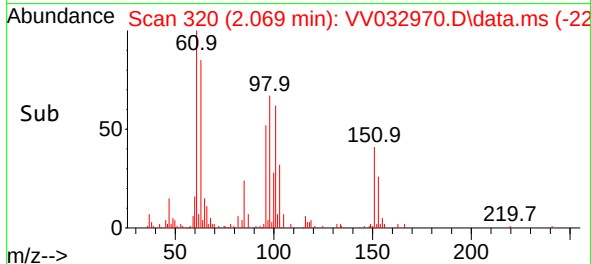
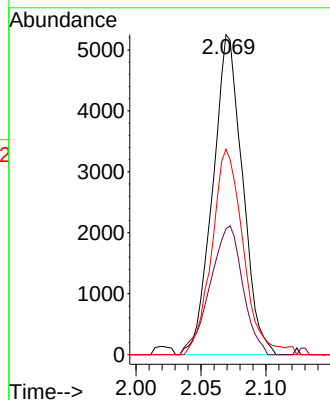
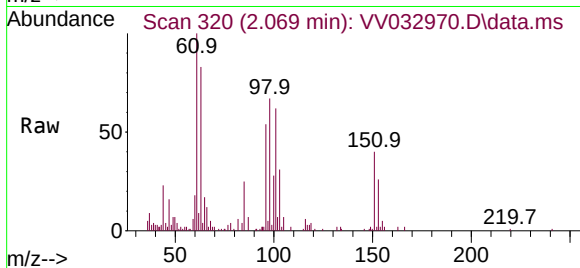
Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 8335  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 44.3  | 35.5  | 53.3  |
| 151      | 68.4  | 59.5  | 89.3  |



#12

1,1-Dichloroethene

Concen: 0.526 ug/L

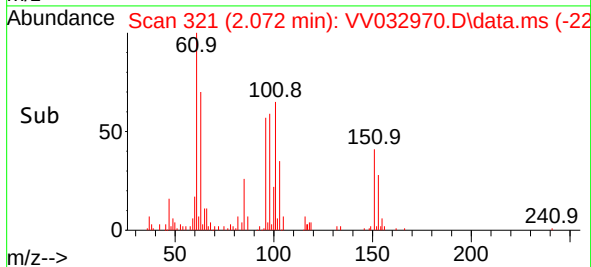
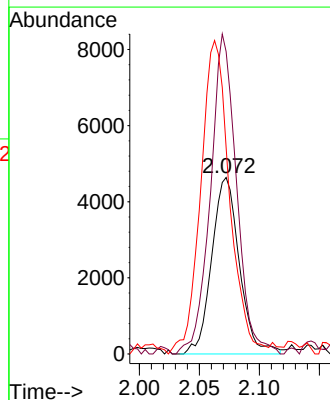
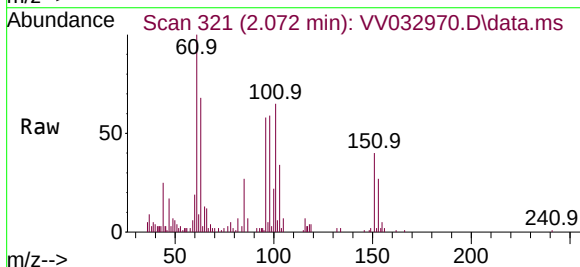
RT: 2.072 min Scan# 321

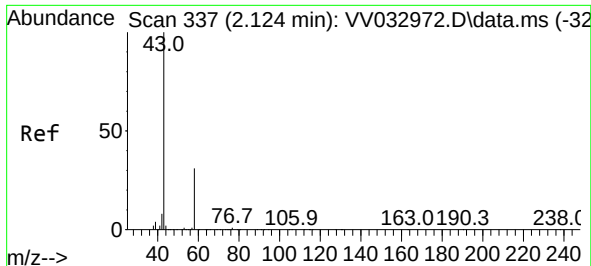
Delta R.T. 0.003 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 7420  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 171.4 | 119.8 | 222.6 |
| 63       | 117.1 | 90.5  | 168.1 |





#13

Acetone

Concen: 6.006 ug/L

RT: 2.121 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

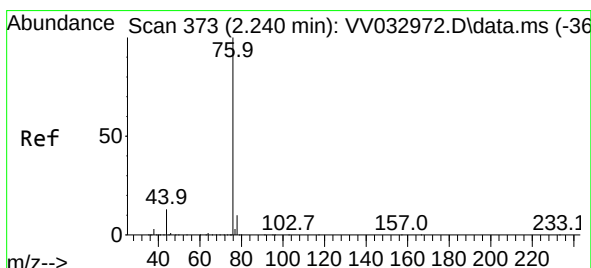
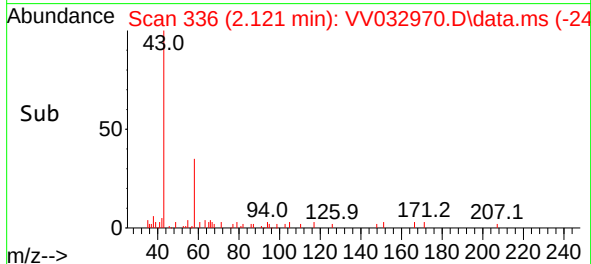
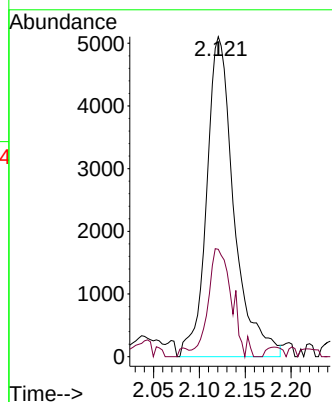
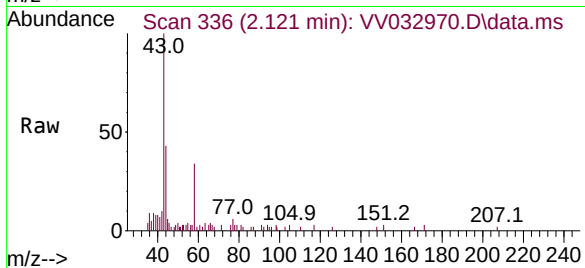
ClientSampleId :

Tgt Ion: 43 Resp: 10572

Ion Ratio Lower Upper

43 100

58 28.4 0.0 63.6



#14

Carbon disulfide

Concen: 0.521 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.003 min

Lab File: VV032970.D

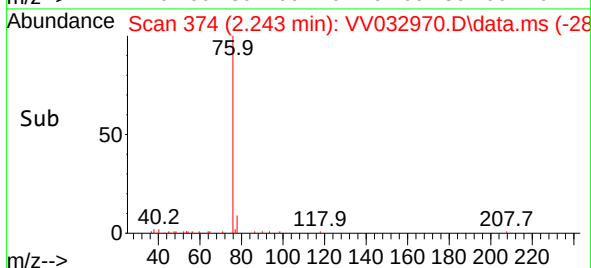
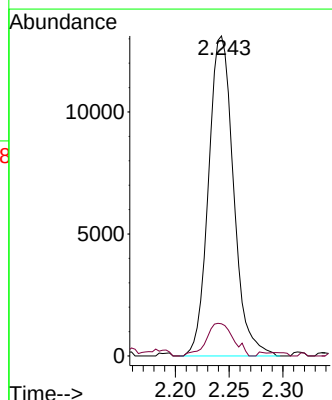
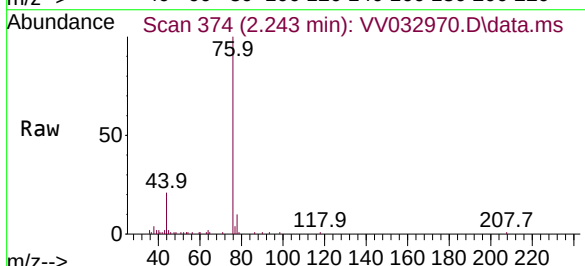
Acq: 16 Nov 2023 17:36

Tgt Ion: 76 Resp: 21241

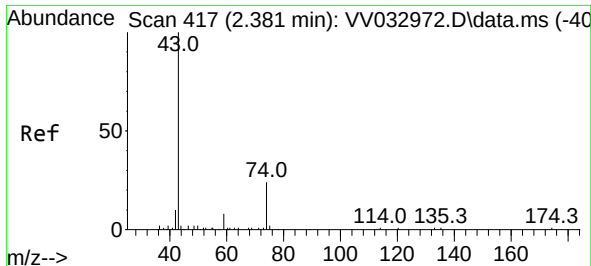
Ion Ratio Lower Upper

76 100

78 10.1 7.7 11.5



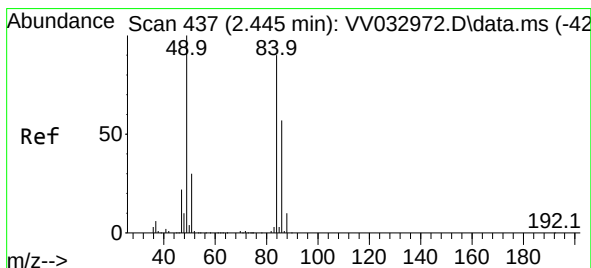
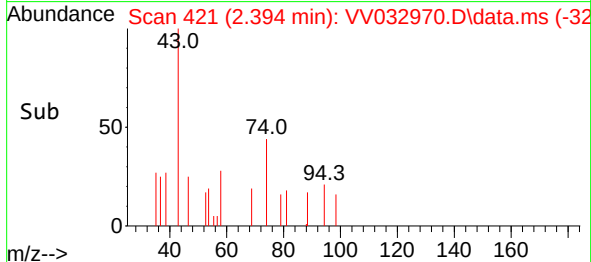
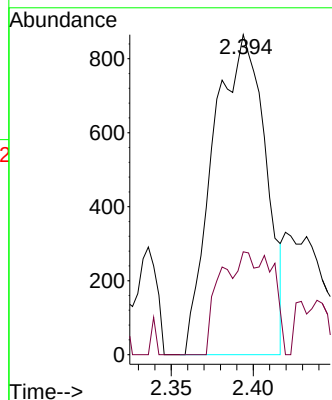
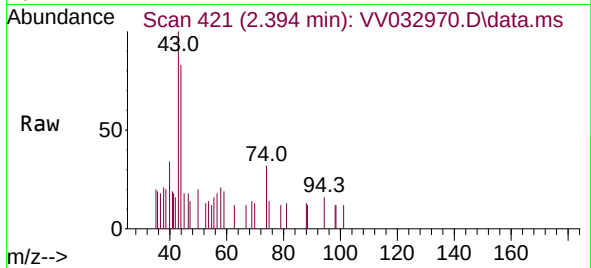




#15  
Methyl Acetate  
Concen: 0.492 ug/L  
RT: 2.394 min Scan# 417  
Delta R.T. 0.013 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

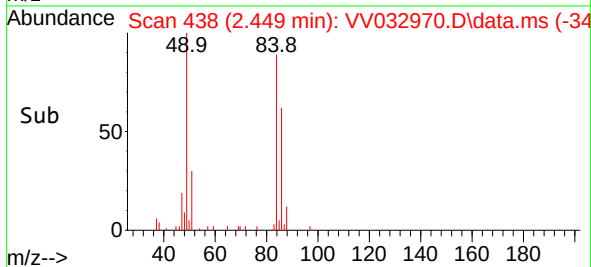
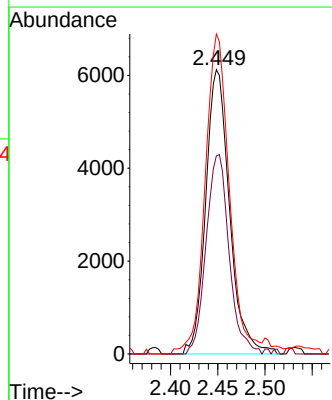
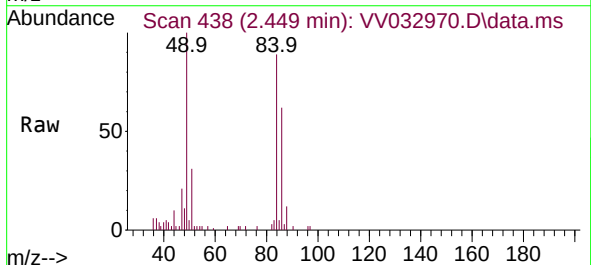
Instrument :  
MSVOA\_V  
ClientSampleId :

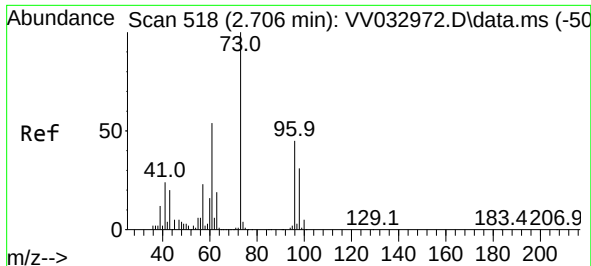
Tgt Ion: 43 Resp: 1920  
Ion Ratio Lower Upper  
43 100  
74 4.2 16.9 25.3#



#16  
Methylene chloride  
Concen: 0.643 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion: 84 Resp: 10746  
Ion Ratio Lower Upper  
84 100  
86 69.7 44.7 83.1  
49 118.1 78.3 145.5





#17

Methyl tert-butyl Ether

Concen: 0.471 ug/L

RT: 2.709 min Scan# 518

Delta R.T. 0.003 min

Lab File: VV032970.D

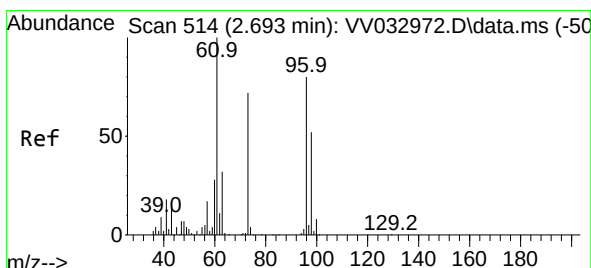
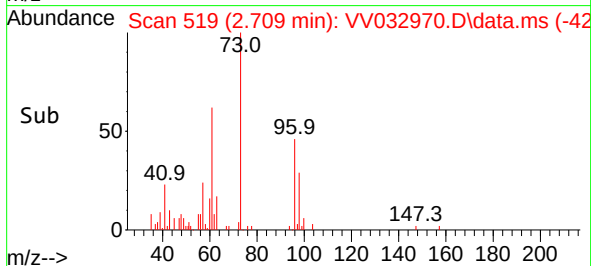
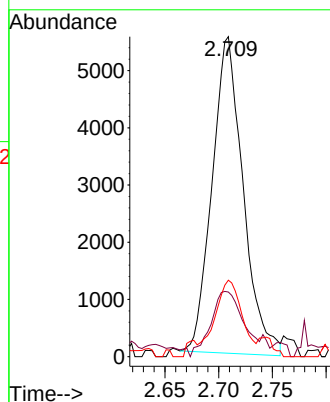
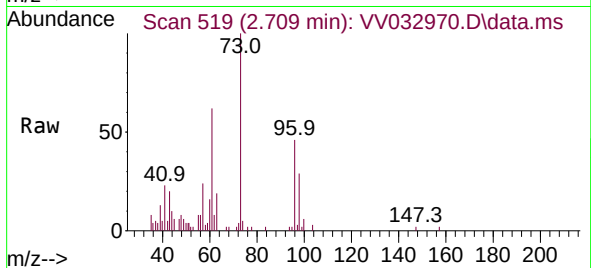
Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 73 | Resp: 11084 |
| Ion Ratio   | Lower Upper |
| 73 100      |             |
| 43 21.7     | 17.3 25.9   |
| 57 21.1     | 17.8 26.6   |



#18

trans-1,2-Dichloroethene

Concen: 0.517 ug/L

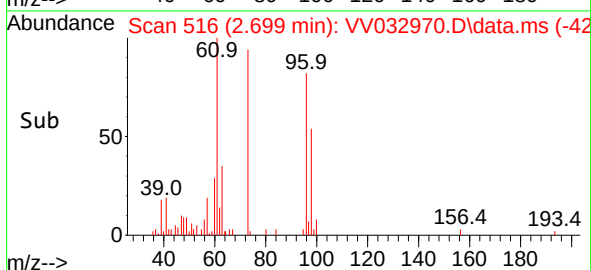
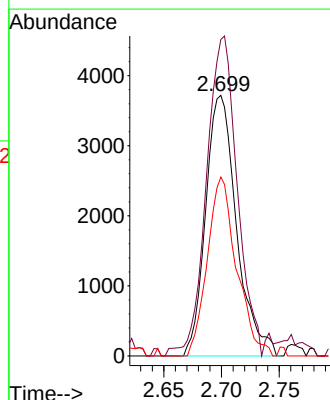
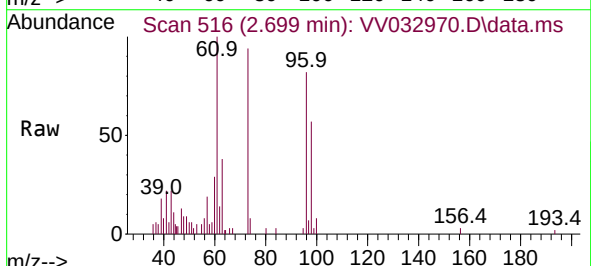
RT: 2.699 min Scan# 516

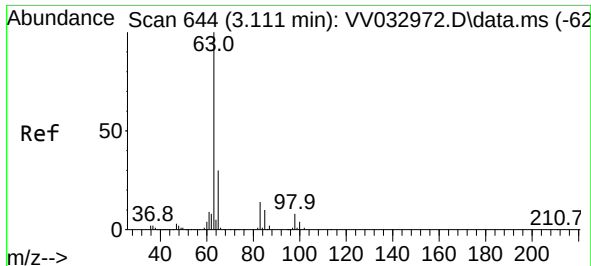
Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 6941  |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 121.4    | 88.2 163.8  |
| 98 68.6     | 45.4 84.4   |





#19

1,1-Dichloroethane

Concen: 0.524 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.003 min

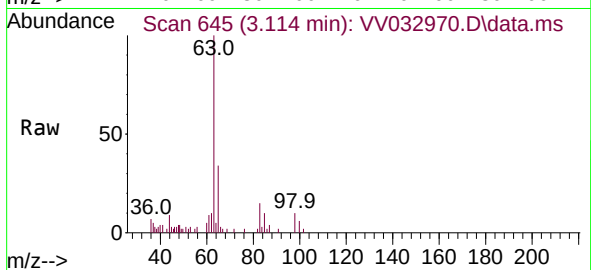
Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :



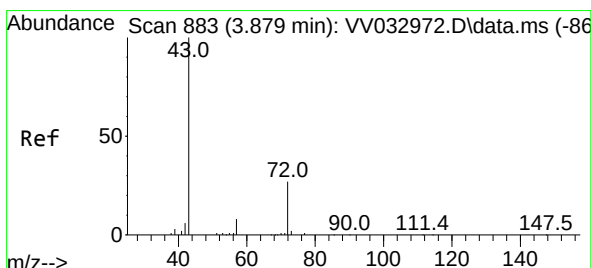
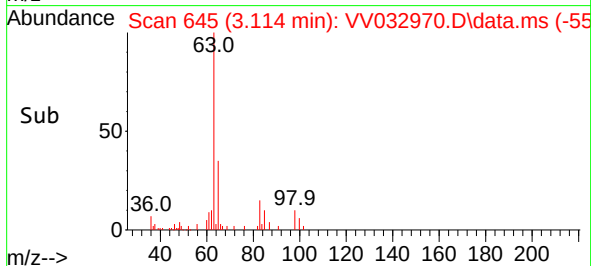
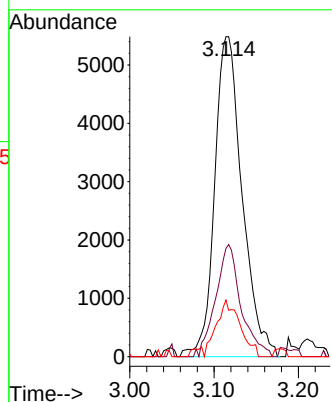
Tgt Ion: 63 Resp: 12444

Ion Ratio Lower Upper

63 100

65 33.9 21.0 39.0

83 17.7 10.0 18.6



#21

2-Butanone

Concen: 0.084 ug/L

RT: 3.857 min Scan# 876

Delta R.T. -0.023 min

Lab File: VV032970.D

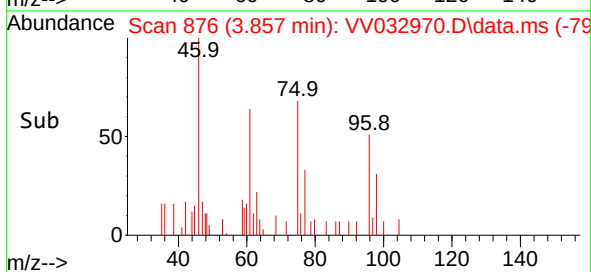
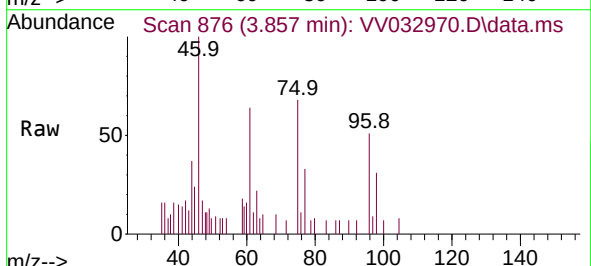
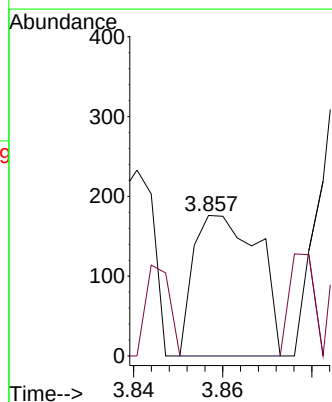
Acq: 16 Nov 2023 17:36

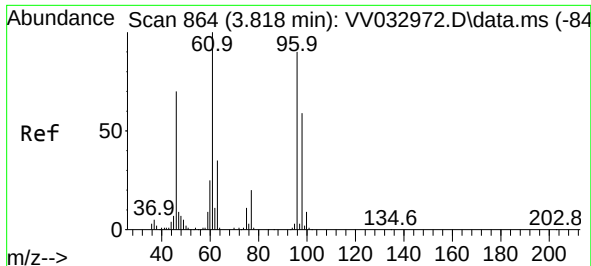
Tgt Ion: 43 Resp: 178

Ion Ratio Lower Upper

43 100

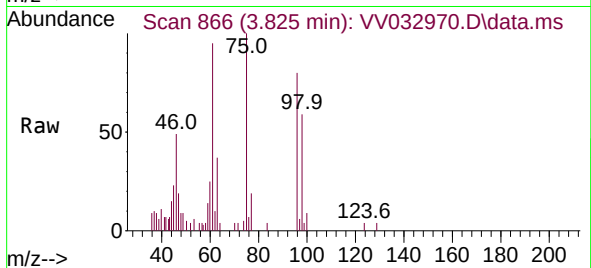
72 27.5 13.4 40.1





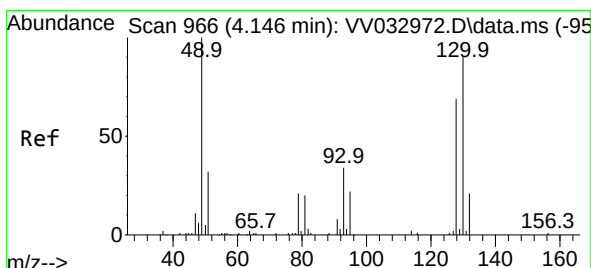
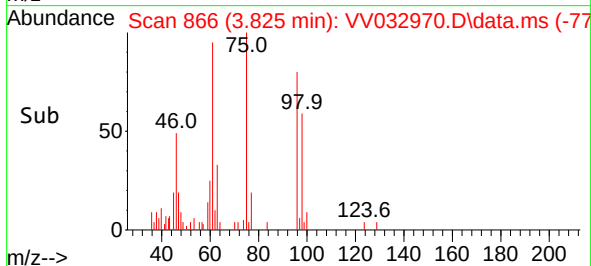
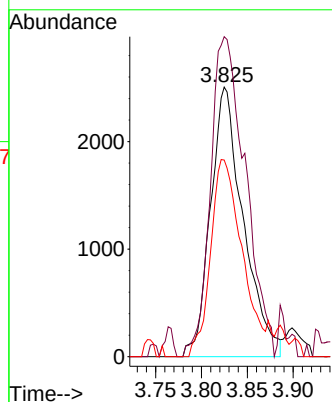
#22  
 cis-1,2-Dichloroethene  
 Concen: 0.455 ug/L  
 RT: 3.825 min Scan# 864  
 Delta R.T. 0.006 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 96 Resp: 6238

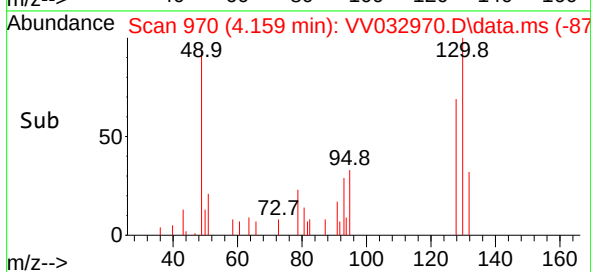
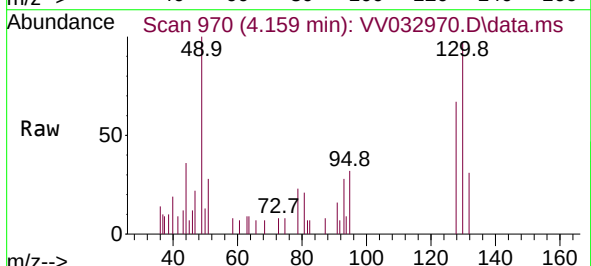
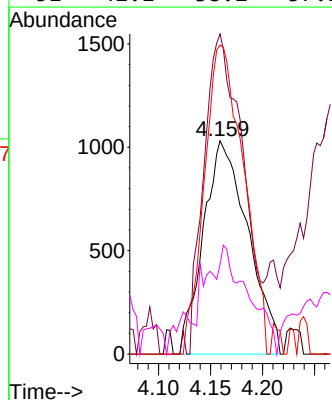
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 118.7 | 77.8  | 144.6 |
| 98  | 73.0  | 45.4  | 84.4  |

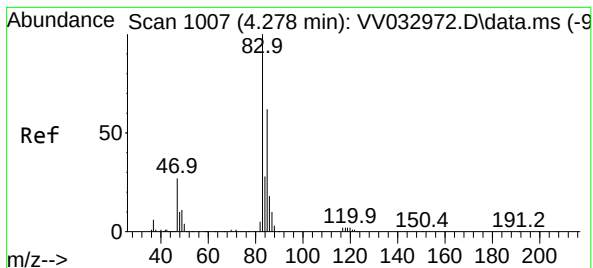


#23  
 Bromochloromethane  
 Concen: 0.490 ug/L  
 RT: 4.159 min Scan# 970  
 Delta R.T. 0.013 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

Tgt Ion: 128 Resp: 3082

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 150.1 | 101.6 | 188.8 |
| 130 | 145.0 | 91.7  | 170.3 |
| 51  | 42.1  | 38.2  | 57.2  |





#25

Chloroform

Concen: 0.529 ug/L

RT: 4.284 min Scan# 1009

Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

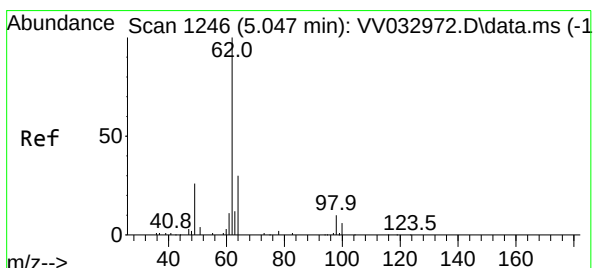
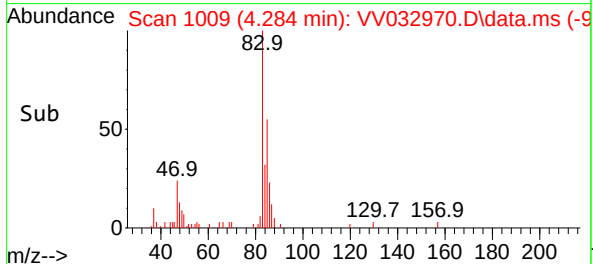
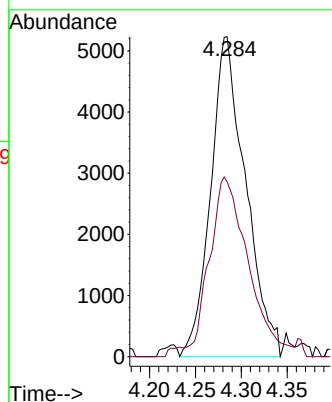
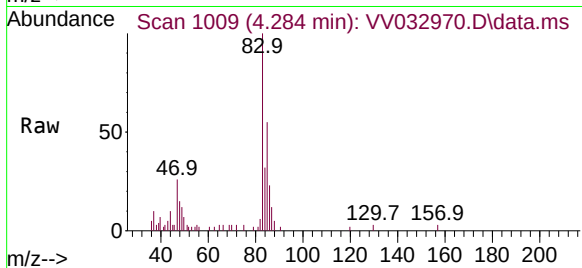
ClientSampleId :

Tgt Ion: 83 Resp: 13858

Ion Ratio Lower Upper

83 100

85 54.7 43.6 81.0



#27

1,2-Dichloroethane

Concen: 0.509 ug/L

RT: 5.053 min Scan# 1248

Delta R.T. 0.006 min

Lab File: VV032970.D

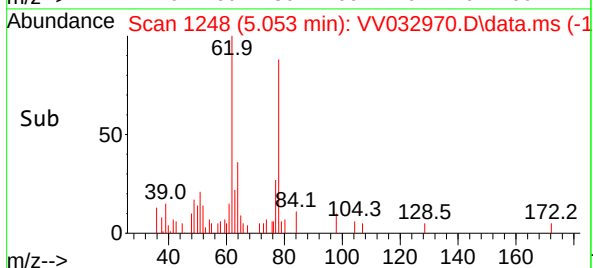
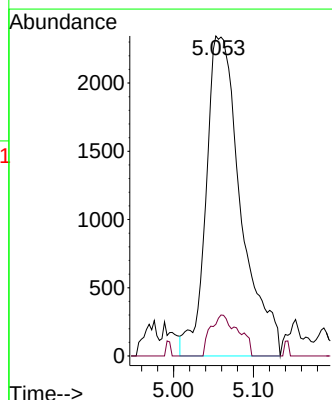
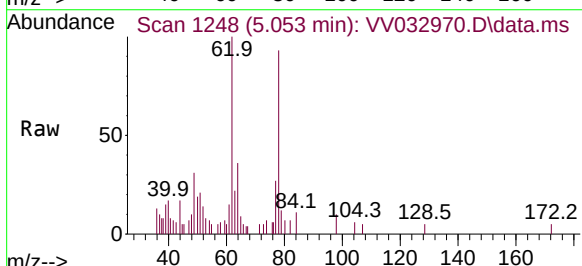
Acq: 16 Nov 2023 17:36

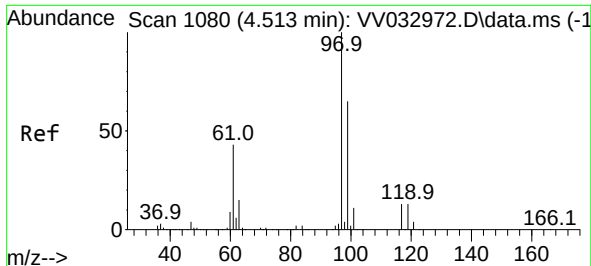
Tgt Ion: 62 Resp: 7098

Ion Ratio Lower Upper

62 100

98 9.9 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 0.521 ug/L

RT: 4.519 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :

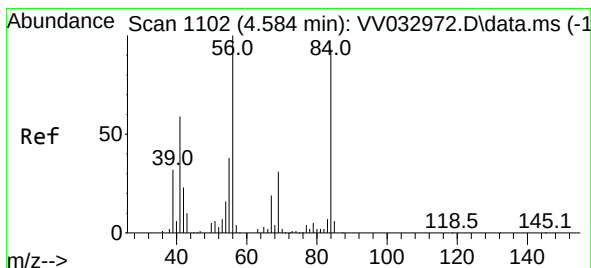
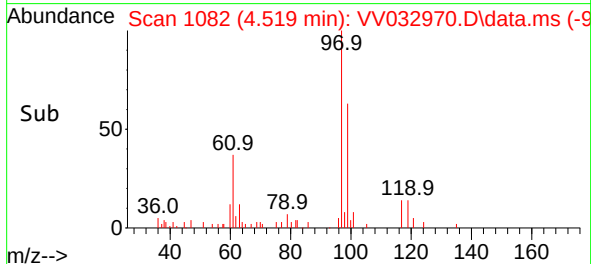
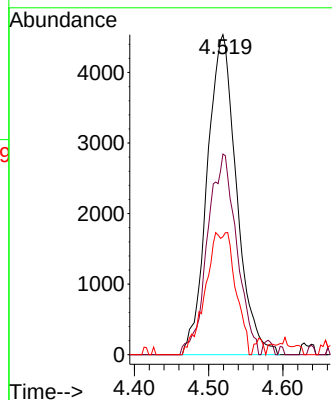
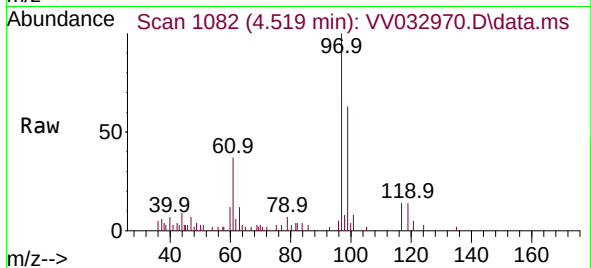
Tgt Ion: 97 Resp: 12441

Ion Ratio Lower Upper

97 100

99 62.3 51.4 77.2

61 20.9 34.2 51.2#



#30

Cyclohexane

Concen: 0.481 ug/L

RT: 4.587 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

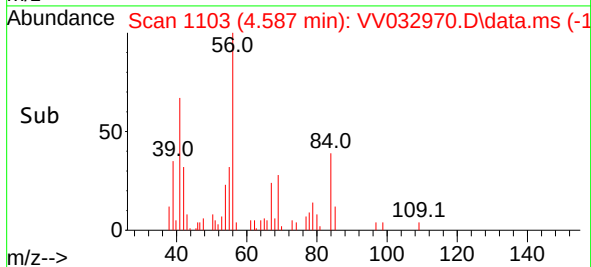
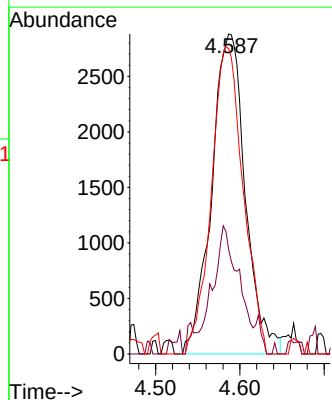
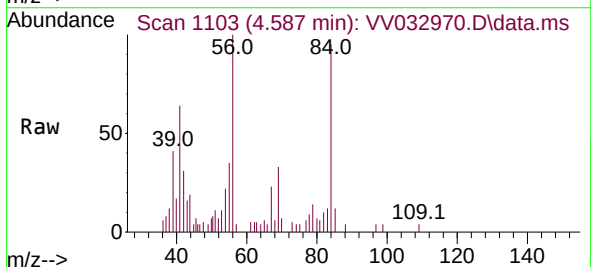
Tgt Ion: 56 Resp: 8008

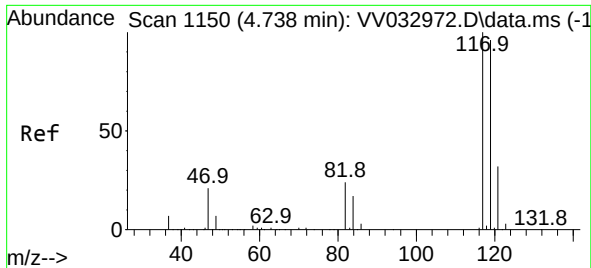
Ion Ratio Lower Upper

56 100

69 23.4 25.9 38.9#

84 90.8 77.5 116.3

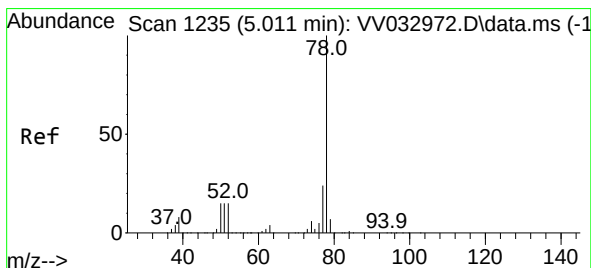
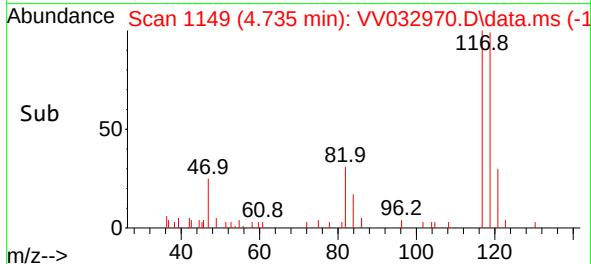
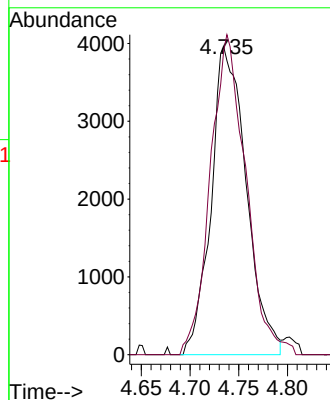
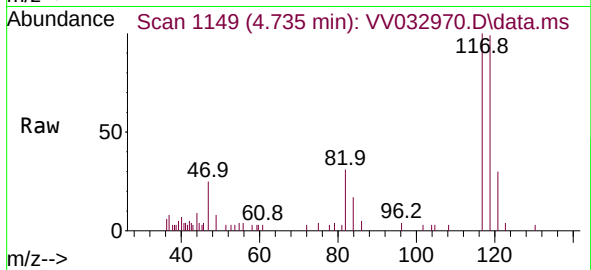




#31  
Carbon tetrachloride  
Concen: 0.482 ug/L  
RT: 4.735 min Scan# 1150  
Delta R.T. -0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

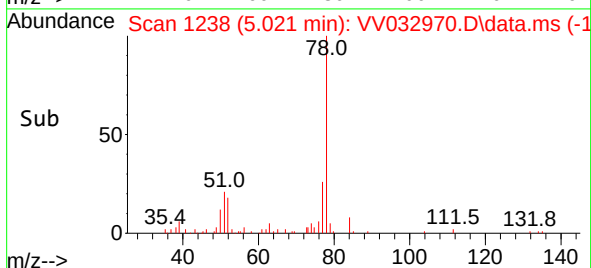
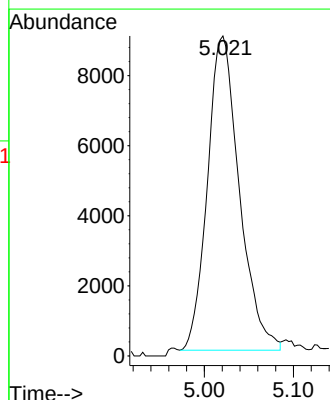
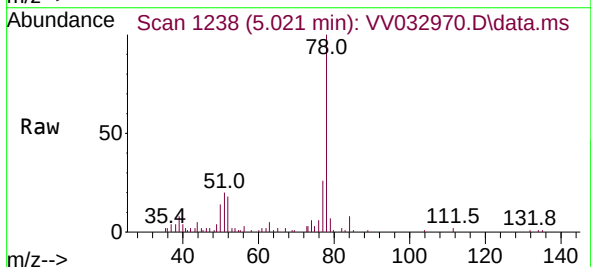
Instrument :  
MSVOA\_V  
ClientSampleId :

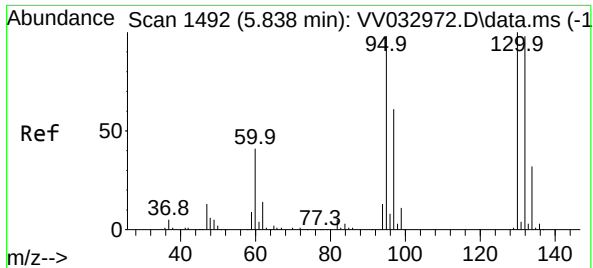
Tgt Ion:117 Resp: 9955  
Ion Ratio Lower Upper  
117 100  
119 104.6 76.8 115.2



#33  
Benzene  
Concen: 0.437 ug/L  
RT: 5.021 min Scan# 1238  
Delta R.T. 0.010 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

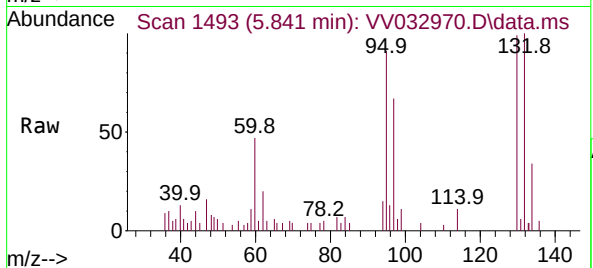
Tgt Ion: 78 Resp: 22299





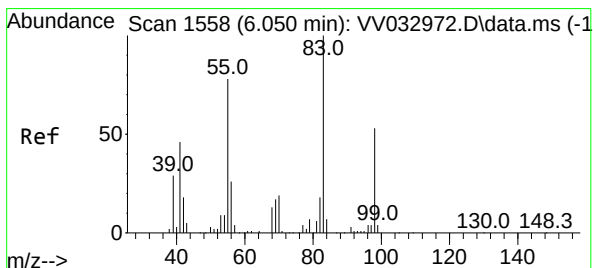
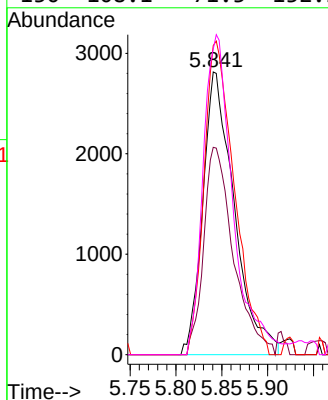
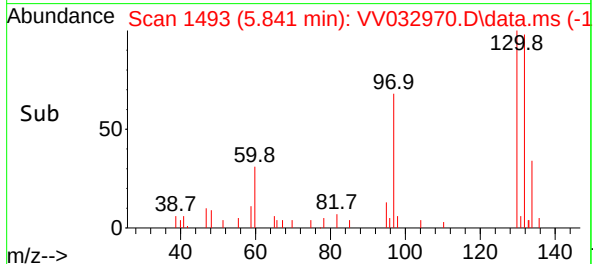
#34  
Trichloroethene  
Concen: 0.478 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Instrument :  
MSVOA\_V  
ClientSampleId :

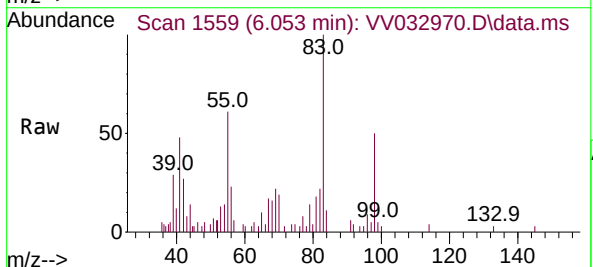


Tgt Ion: 95 Resp: 6717

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 73.4  | 43.7  | 81.1  |
| 132 | 109.3 | 69.7  | 129.5 |
| 130 | 108.1 | 71.3  | 132.3 |

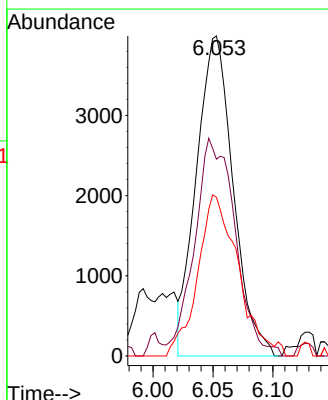
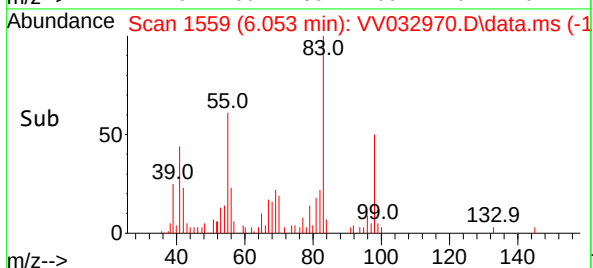


#35  
Methylcyclohexane  
Concen: 0.458 ug/L  
RT: 6.053 min Scan# 1559  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

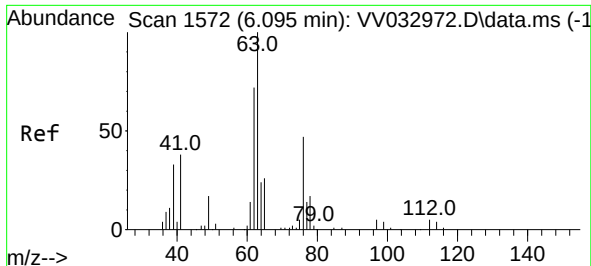


Tgt Ion: 83 Resp: 8525

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 75.0  | 57.6  | 86.4  |
| 98  | 55.1  | 39.0  | 58.4  |







#37

1,2-Dichloropropane

Concen: 0.477 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

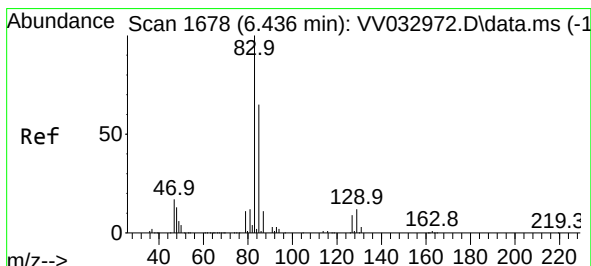
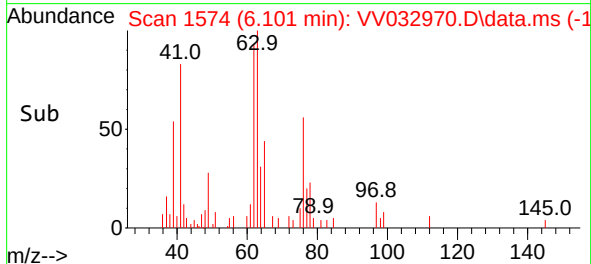
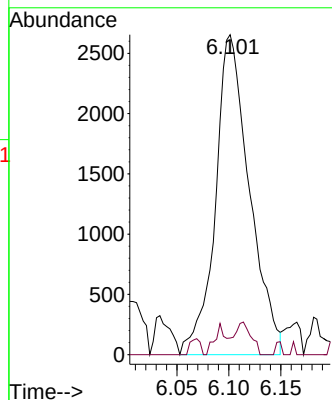
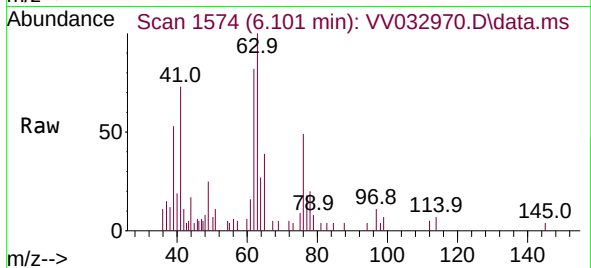
ClientSampleId :

Tgt Ion: 63 Resp: 6057

Ion Ratio Lower Upper

63 100

112 2.8 4.1 6.1#



#38

Bromodichloromethane

Concen: 0.494 ug/L

RT: 6.442 min Scan# 1680

Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

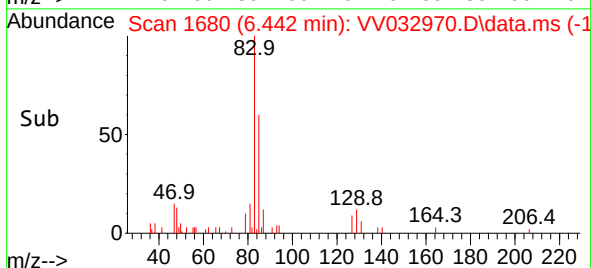
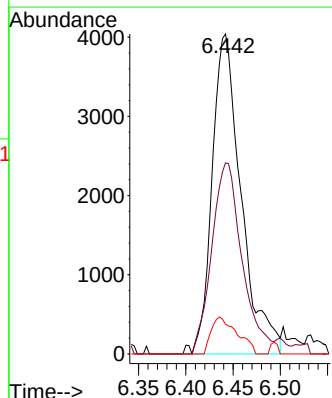
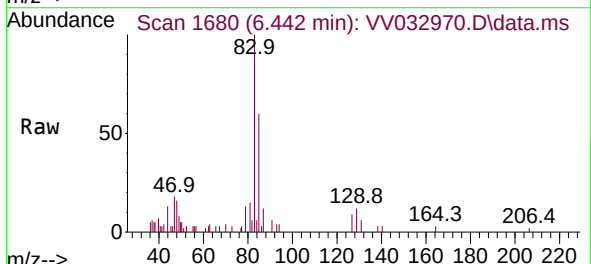
Tgt Ion: 83 Resp: 8639

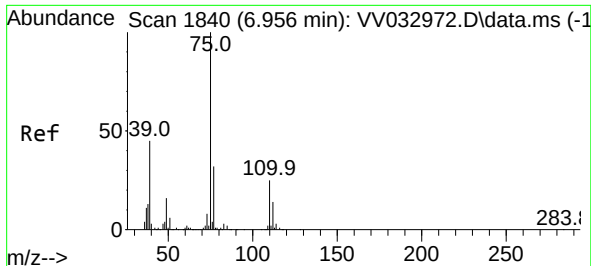
Ion Ratio Lower Upper

83 100

85 59.7 45.4 84.4

127 9.3 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 0.438 ug/L

RT: 6.969 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

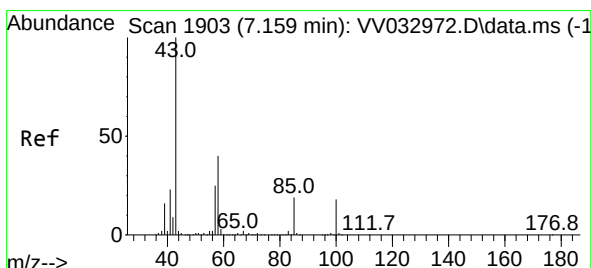
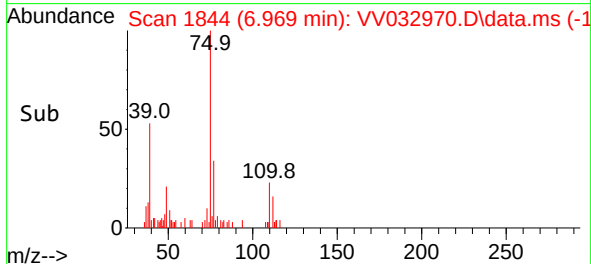
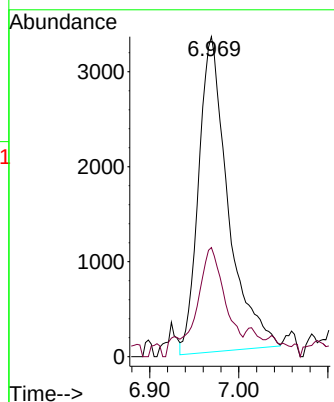
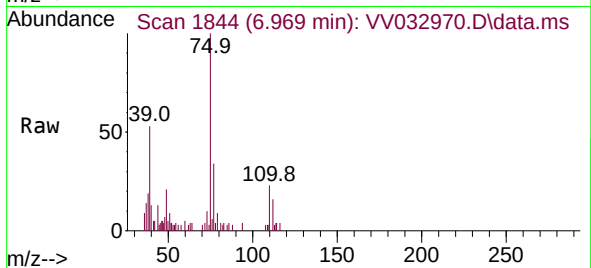
ClientSampleId :

Tgt Ion: 75 Resp: 7616

Ion Ratio Lower Upper

75 100

77 34.1 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 4.005 ug/L

RT: 7.165 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

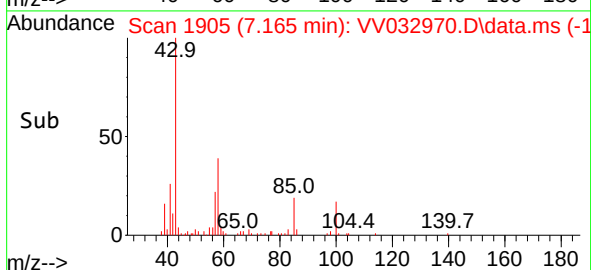
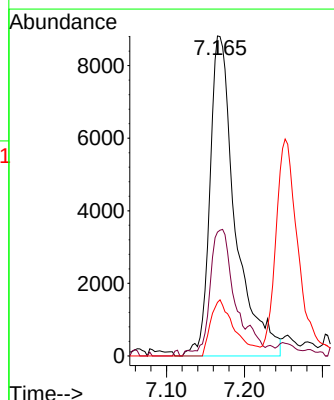
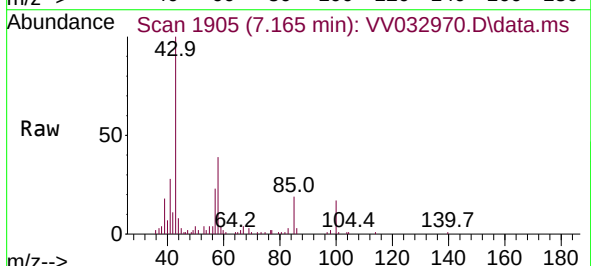
Tgt Ion: 43 Resp: 20050

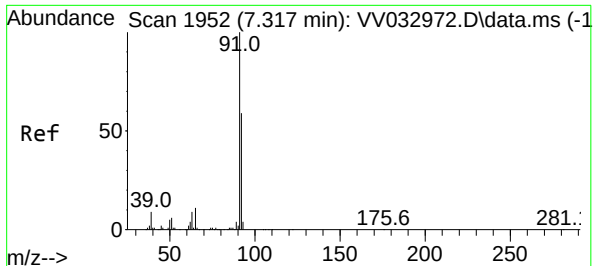
Ion Ratio Lower Upper

43 100

58 32.6 31.7 47.5

100 16.7 14.2 21.2





#42

Toluene

Concen: 0.426 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.006 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

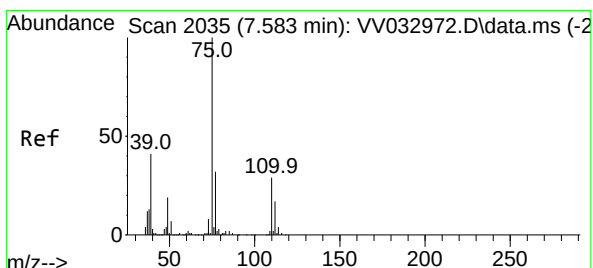
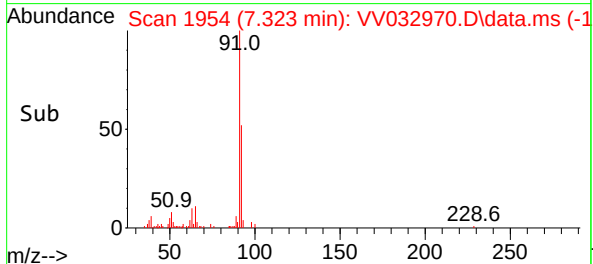
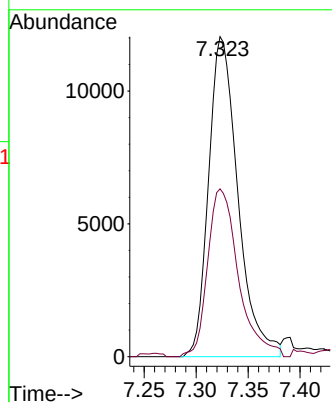
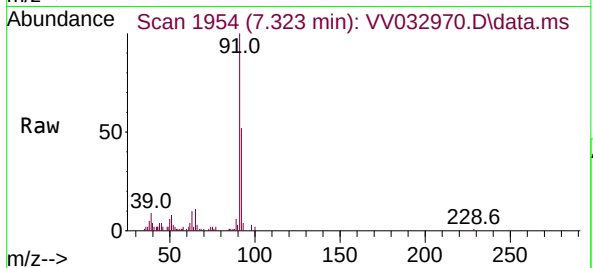
ClientSampleId :

Tgt Ion: 91 Resp: 23631

Ion Ratio Lower Upper

91 100

92 52.5 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 0.416 ug/L

RT: 7.596 min Scan# 2039

Delta R.T. 0.013 min

Lab File: VV032970.D

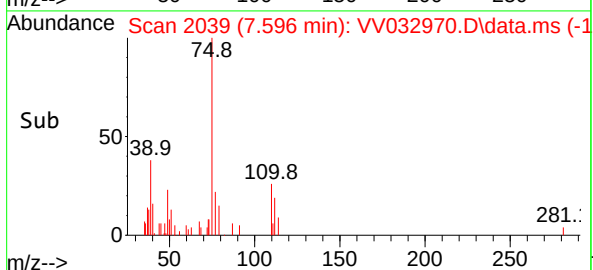
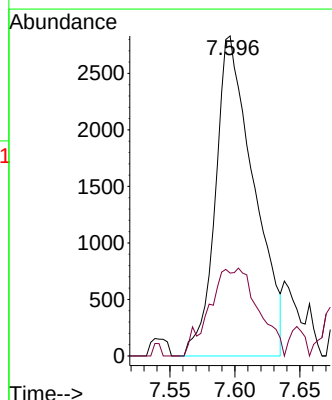
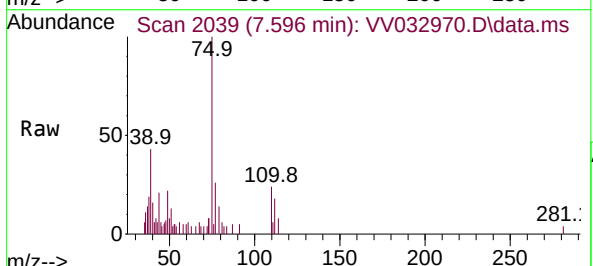
Acq: 16 Nov 2023 17:36

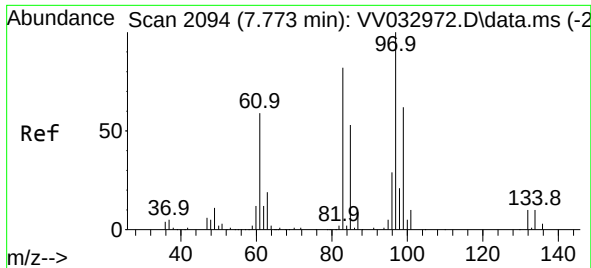
Tgt Ion: 75 Resp: 5815

Ion Ratio Lower Upper

75 100

77 25.9 22.9 42.5

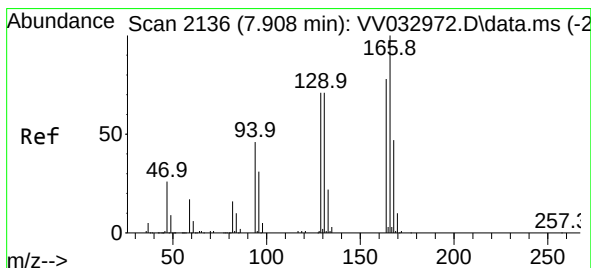
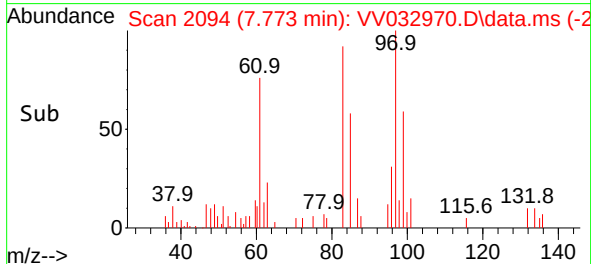
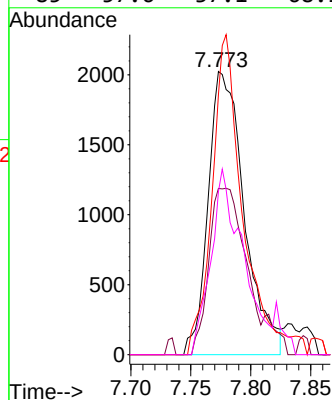
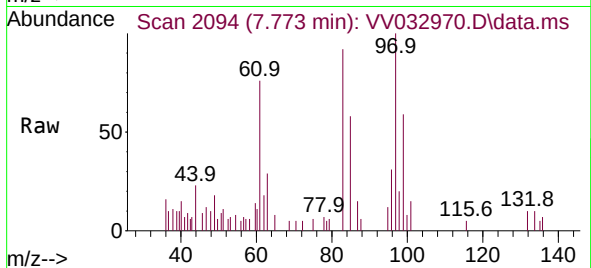




#45  
1,1,2-Trichloroethane  
Concen: 0.464 ug/L  
RT: 7.773 min Scan# 2094  
Delta R.T. -0.000 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

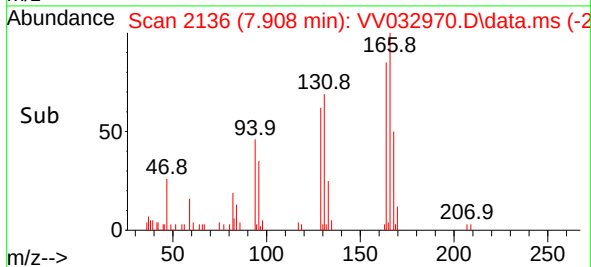
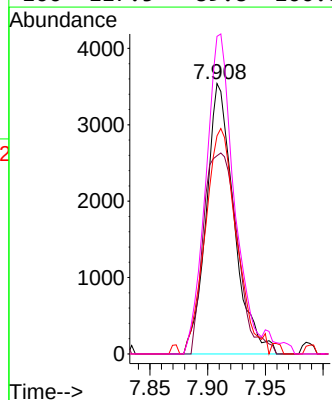
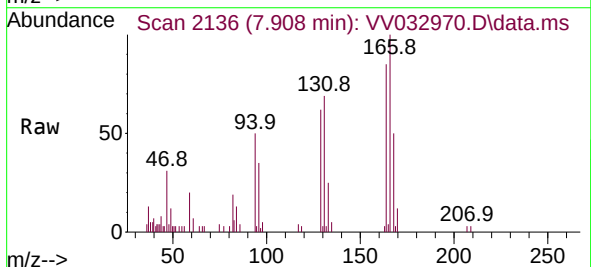
Instrument :  
MSVOA\_V  
ClientSampleId :

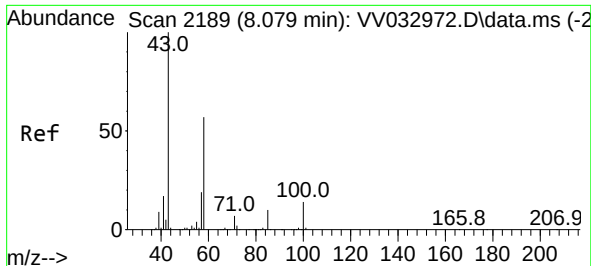
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 4239  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 58.7  | 43.0  | 80.0  |
| 83       | 91.8  | 57.3  | 106.5 |
| 85       | 57.6  | 37.1  | 68.9  |



#47  
Tetrachloroethene  
Concen: 0.500 ug/L  
RT: 7.908 min Scan# 2136  
Delta R.T. -0.000 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 5913  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 73.4  | 64.2  | 119.2 |
| 131      | 80.7  | 63.5  | 117.9 |
| 166      | 117.5 | 89.8  | 166.8 |

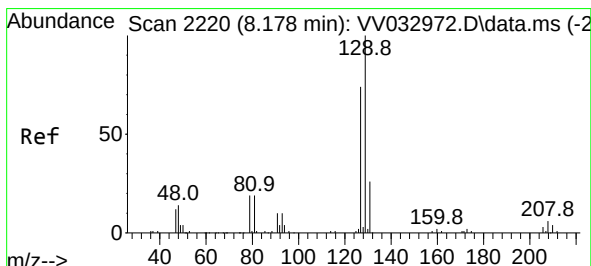
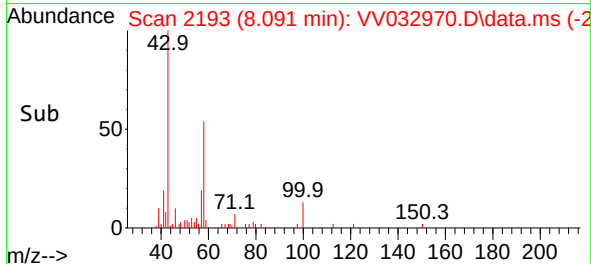
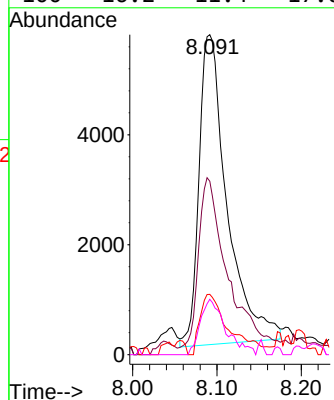
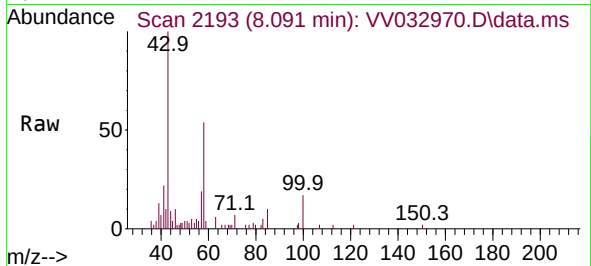




#48  
2-Hexanone  
Concen: 3.552 ug/L  
RT: 8.091 min Scan# 2189  
Delta R.T. 0.013 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

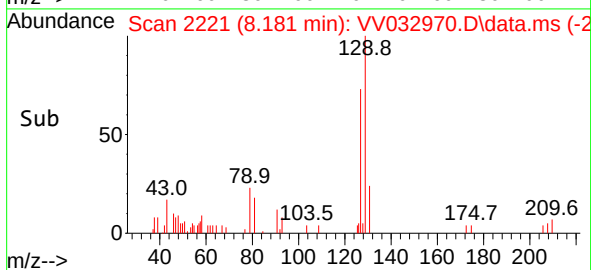
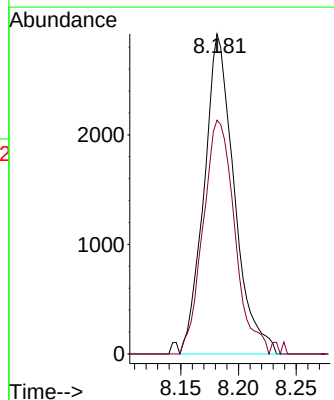
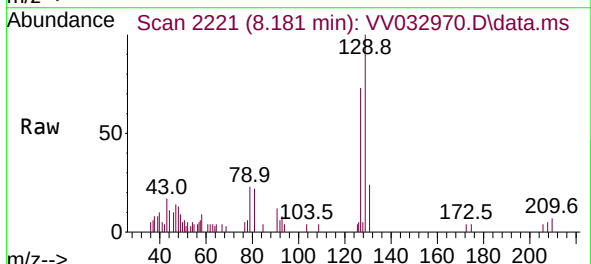
Instrument :  
MSVOA\_V  
ClientSampleId :

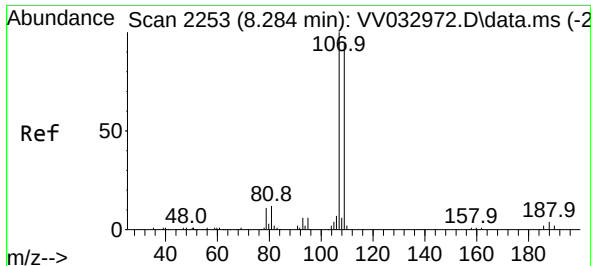
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 13057 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 58.2     | 44.9 67.3   |
| 57 20.6     | 15.1 22.7   |
| 100 16.2    | 11.4 17.0   |



#49  
Dibromochloromethane  
Concen: 0.483 ug/L  
RT: 8.181 min Scan# 2221  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 5291  |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 73.1  | 51.6  | 95.8  |





#50

1,2-Dibromoethane

Concen: 0.490 ug/L

RT: 8.297 min Scan# 21

Delta R.T. 0.013 min

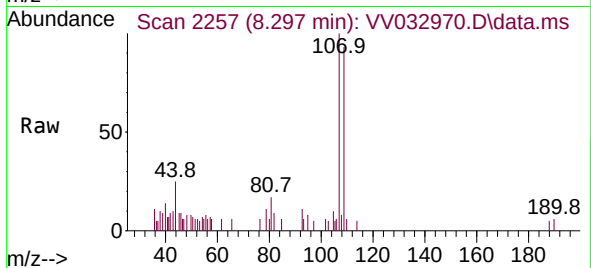
Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

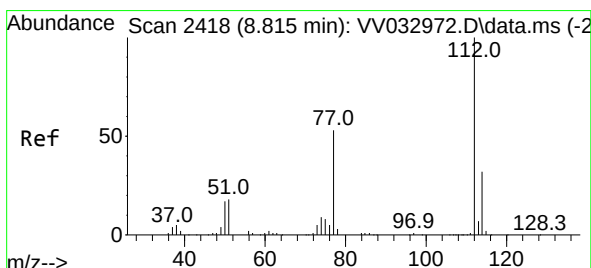
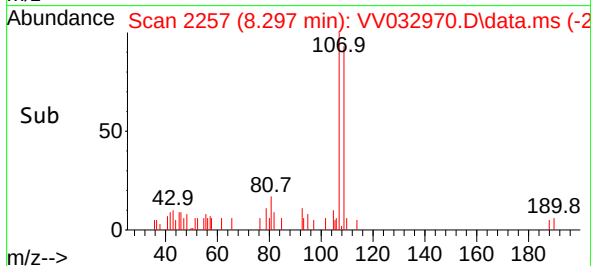
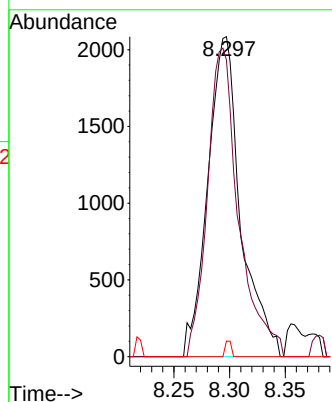
Instrument :

MSVOA\_V

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 4282  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 92.7  | 65.6  | 121.8 |
| 188      | 4.8   | 2.9   | 4.3#  |



#51

Chlorobenzene

Concen: 0.481 ug/L

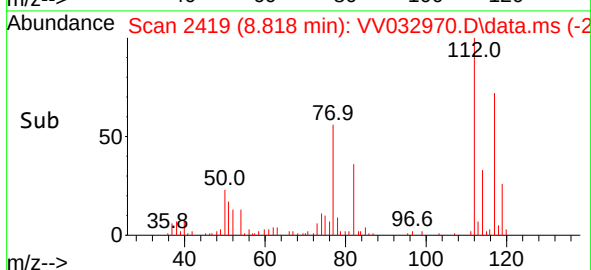
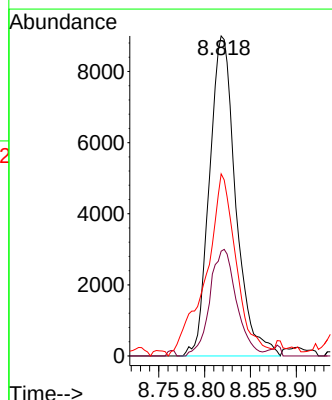
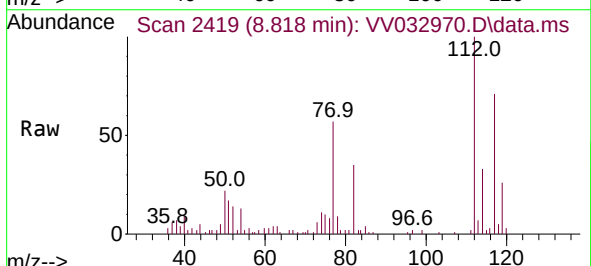
RT: 8.818 min Scan# 2419

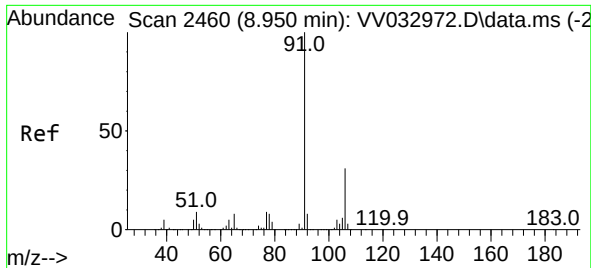
Delta R.T. 0.003 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 17915 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 32.7  | 22.3  | 41.5  |
| 77       | 56.9  | 42.6  | 64.0  |

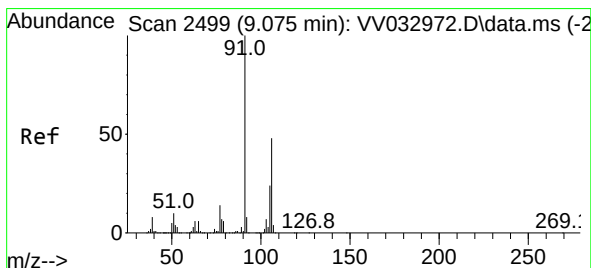
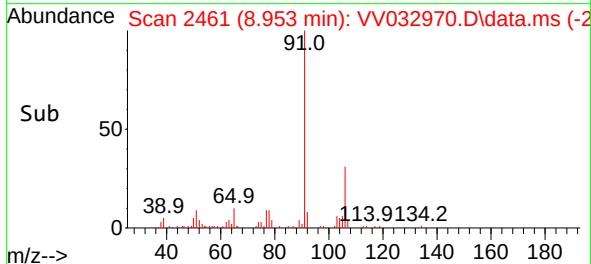
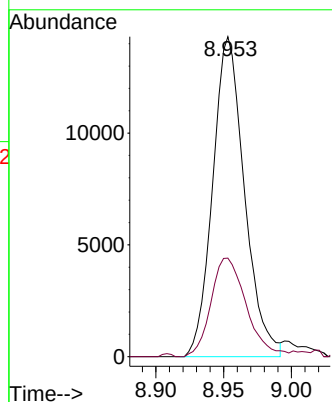
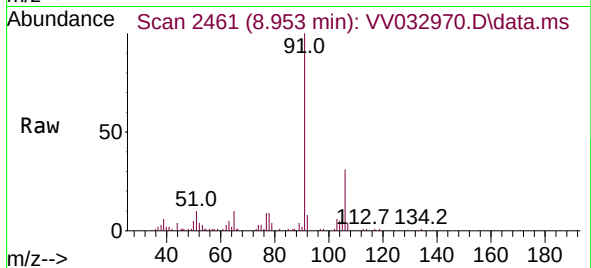




#52  
Ethylbenzene  
Concen: 0.404 ug/L  
RT: 8.953 min Scan# 2461  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

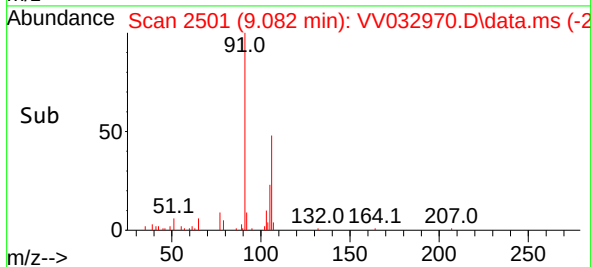
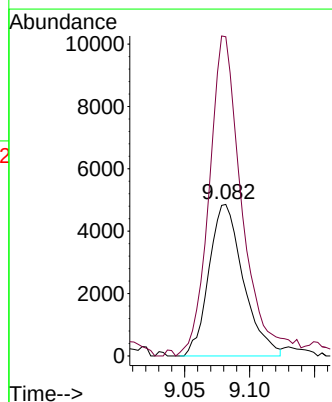
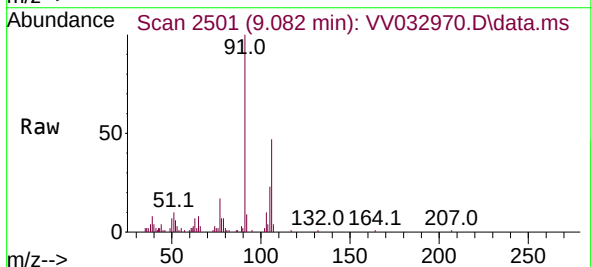
Instrument :  
MSVOA\_V  
ClientSampleId :

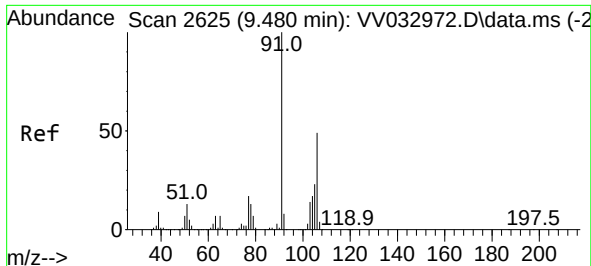
Tgt Ion: 91 Resp: 23324  
Ion Ratio Lower Upper  
91 100  
106 30.8 21.7 40.3



#53  
m,p-Xylene  
Concen: 0.402 ug/L  
RT: 9.082 min Scan# 2501  
Delta R.T. 0.006 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion: 106 Resp: 8954  
Ion Ratio Lower Upper  
106 100  
91 210.6 145.5 270.3

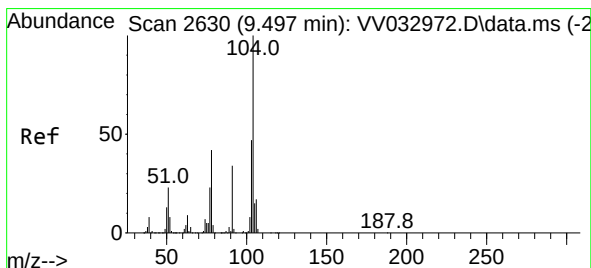
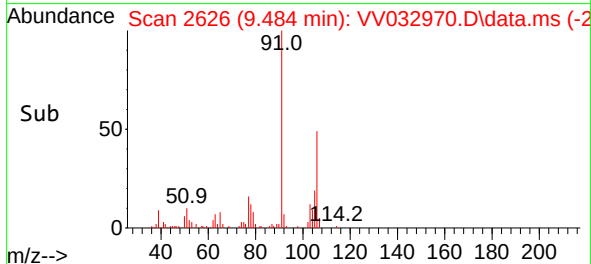
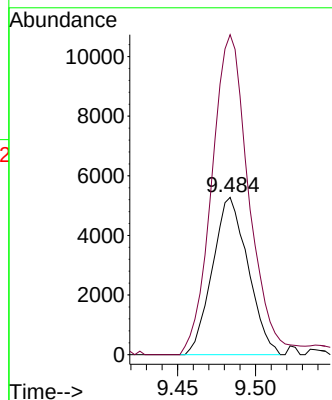
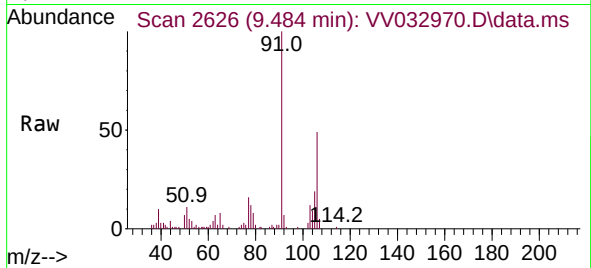




#54  
o-Xylene  
Concen: 0.393 ug/L  
RT: 9.484 min Scan# 2625  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

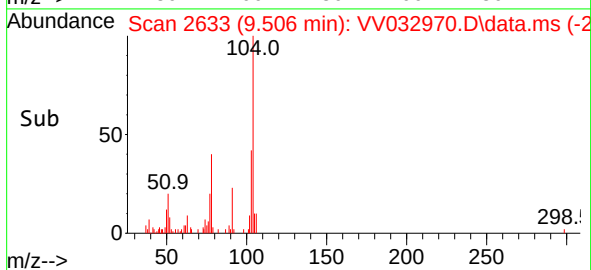
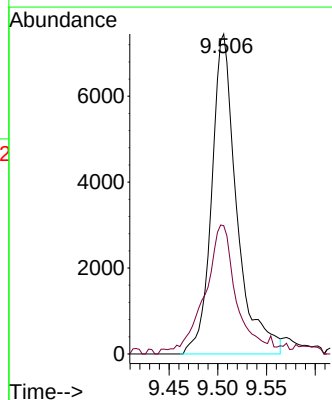
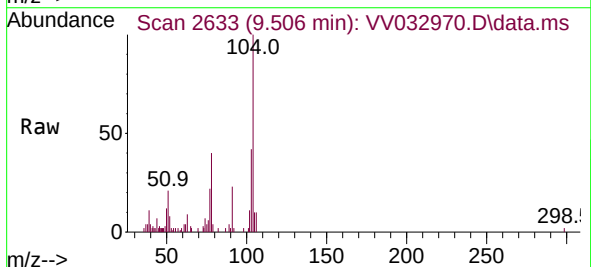
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:106 Resp: 8364  
Ion Ratio Lower Upper  
106 100  
91 203.4 142.4 264.4

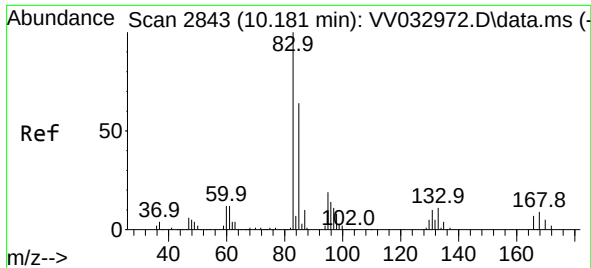


#55  
Styrene  
Concen: 0.364 ug/L  
RT: 9.506 min Scan# 2633  
Delta R.T. 0.010 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion:104 Resp: 13341  
Ion Ratio Lower Upper  
104 100  
78 40.1 29.8 55.4







#57

1,1,2,2-Tetrachloroethane

Concen: 0.522 ug/L

RT: 10.185 min Scan# 2843

Delta R.T. 0.003 min

Lab File: VV032970.D

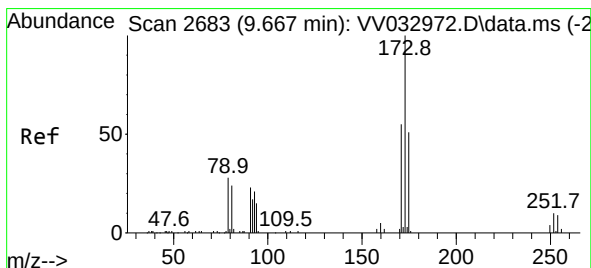
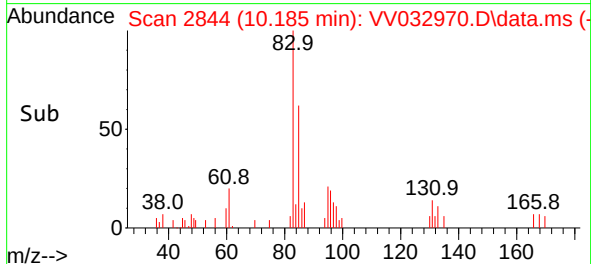
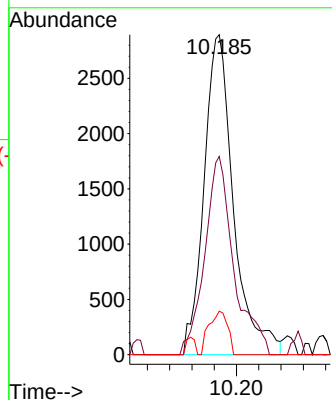
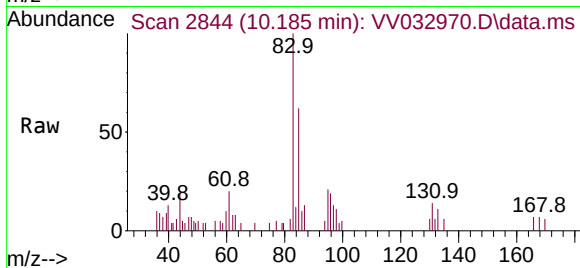
Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 5320  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 62.0  | 44.7  | 83.1  |
| 131      | 13.6  | 8.0   | 12.0  |



#59

Bromoform

Concen: 0.478 ug/L

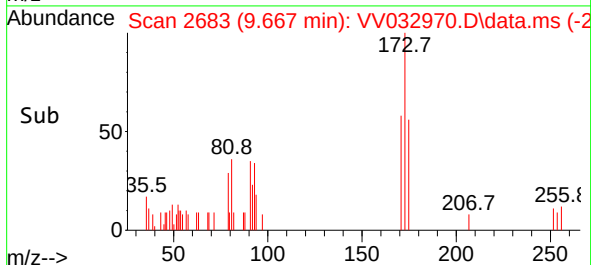
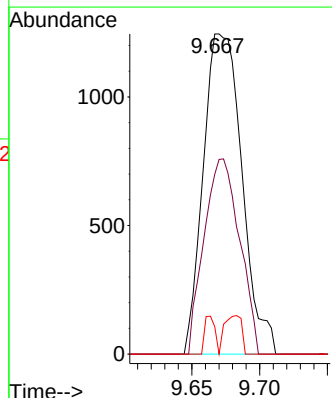
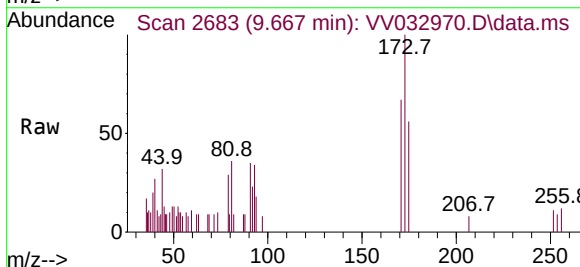
RT: 9.667 min Scan# 2683

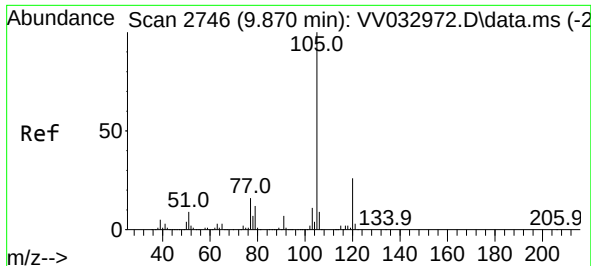
Delta R.T. -0.000 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

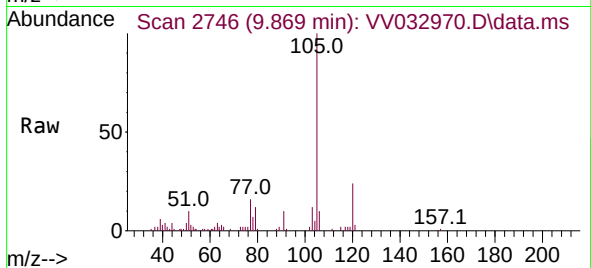
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 2473  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 55.8  | 39.0  | 58.4  |
| 254      | 3.1   | 6.4   | 9.6   |



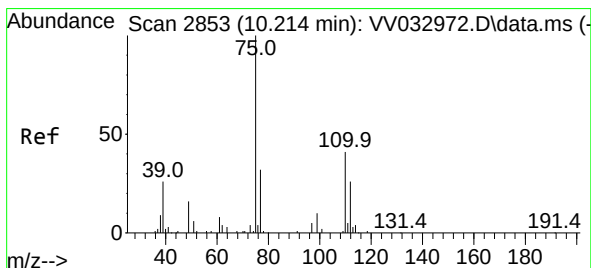
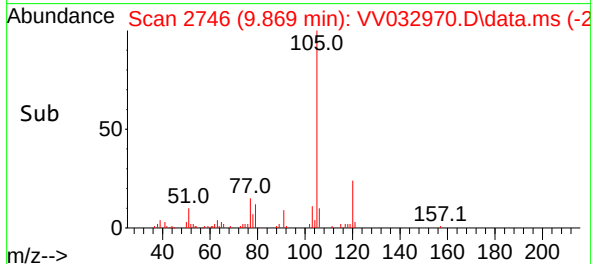
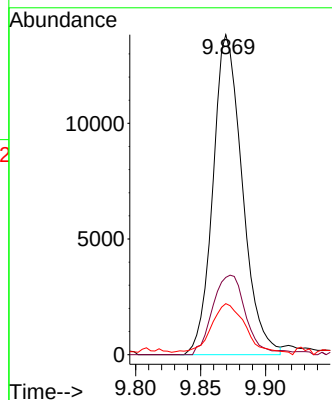


#60  
Isopropylbenzene  
Concen: 0.427 ug/L  
RT: 9.869 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Instrument :  
MSVOA\_V  
ClientSampleId :

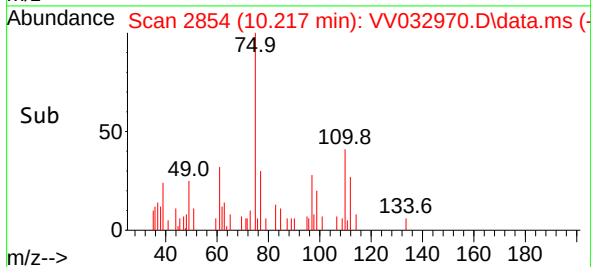
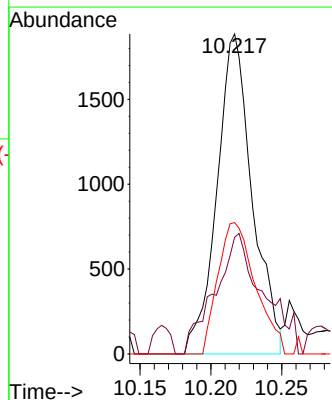
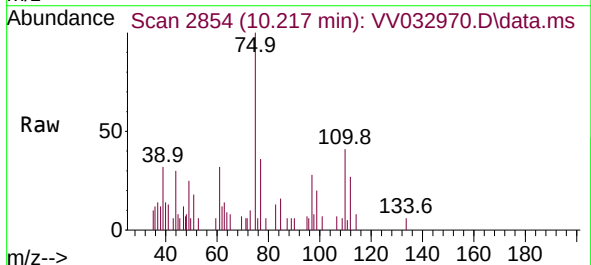


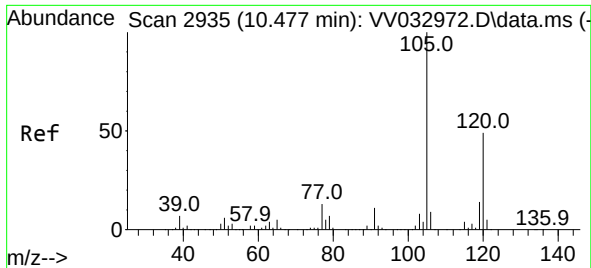
Tgt Ion:105 Resp: 21712  
Ion Ratio Lower Upper  
105 100  
120 27.6 20.6 31.0  
77 19.5 12.6 19.0#



#61  
1,2,3-Trichloropropane  
Concen: 0.546 ug/L  
RT: 10.217 min Scan# 2854  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion: 75 Resp: 3271  
Ion Ratio Lower Upper  
75 100  
77 51.1 25.0 37.4#  
110 43.6 35.6 53.4

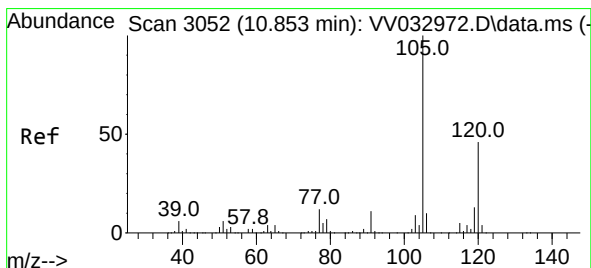
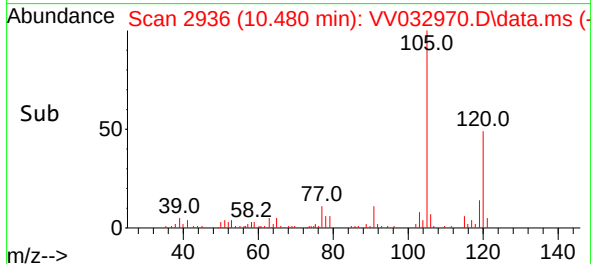
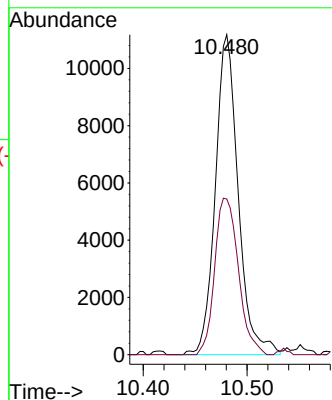
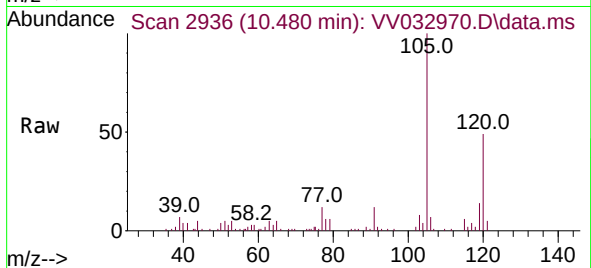




#62  
 1,3,5-Trimethylbenzene  
 Concen: 0.429 ug/L  
 RT: 10.480 min Scan# 2935  
 Delta R.T. 0.003 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

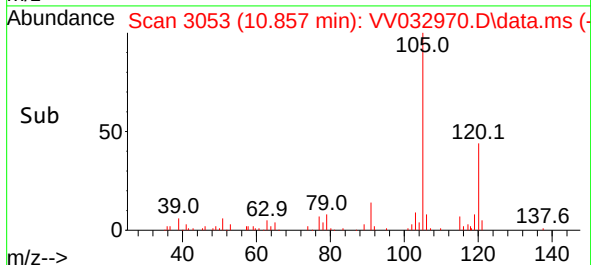
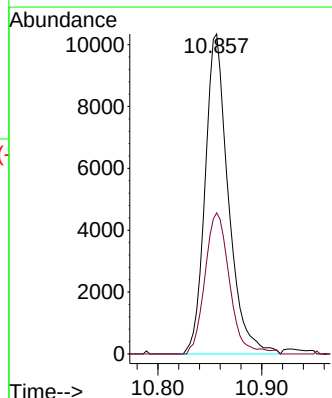
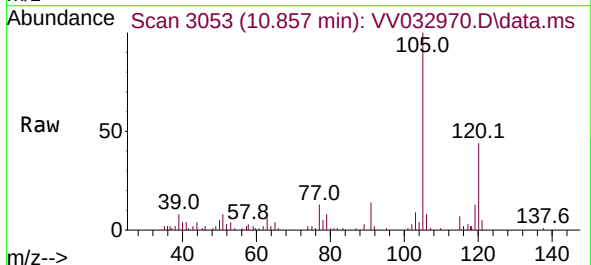
Instrument :  
 MSVOA\_V  
 ClientSampleId :

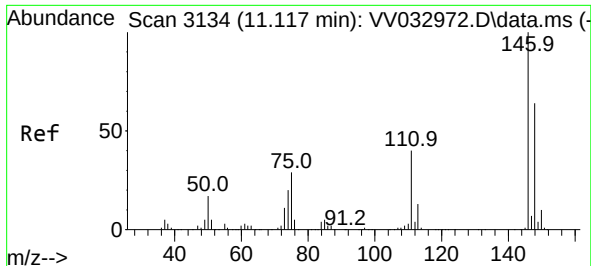
Tgt Ion:105 Resp: 17097  
 Ion Ratio Lower Upper  
 105 100  
 120 50.7 39.7 59.5



#63  
 1,2,4-Trimethylbenzene  
 Concen: 0.401 ug/L  
 RT: 10.857 min Scan# 3053  
 Delta R.T. 0.003 min  
 Lab File: VV032970.D  
 Acq: 16 Nov 2023 17:36

Tgt Ion:105 Resp: 16098  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 36.6 55.0

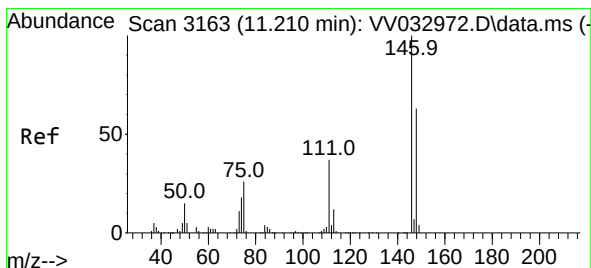
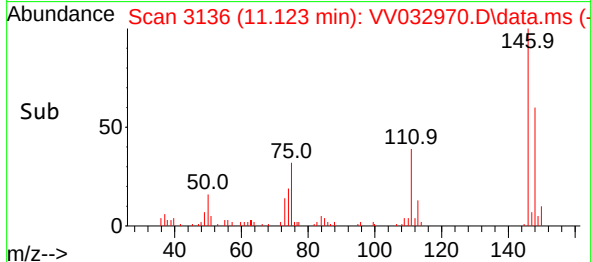
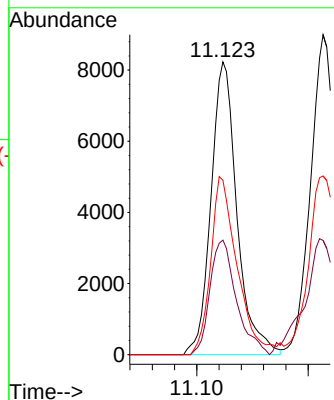
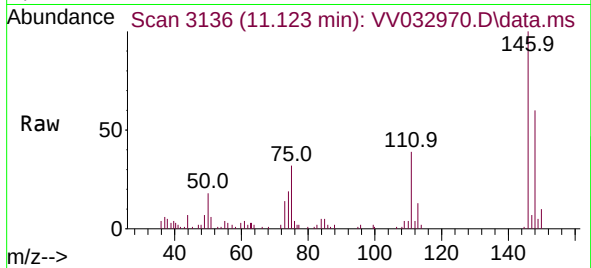




#64  
1,3-Dichlorobenzene  
Concen: 0.494 ug/L  
RT: 11.123 min Scan# 3134  
Delta R.T. 0.006 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

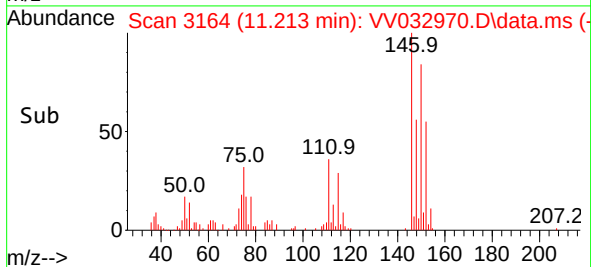
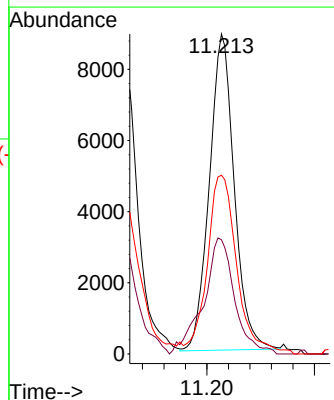
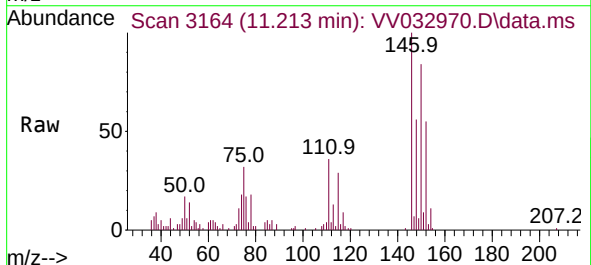
Instrument :  
MSVOA\_V  
ClientSampleId :

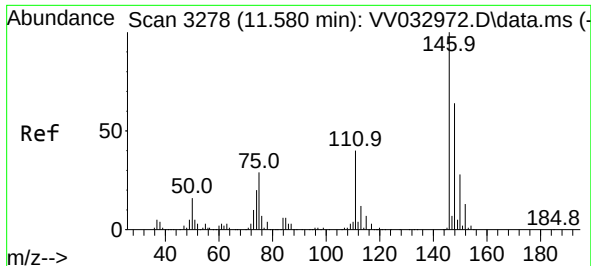
Tgt Ion:146 Resp: 13340  
Ion Ratio Lower Upper  
146 100  
111 39.1 27.8 51.6  
148 59.6 44.5 82.7



#65  
1,4-Dichlorobenzene  
Concen: 0.520 ug/L  
RT: 11.213 min Scan# 3164  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion:146 Resp: 14323  
Ion Ratio Lower Upper  
146 100  
111 35.7 25.8 48.0  
148 55.9 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 0.496 ug/L

RT: 11.583 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV032970.D

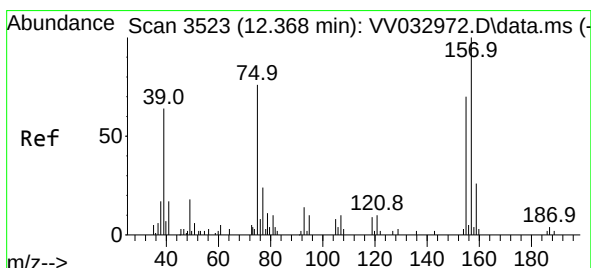
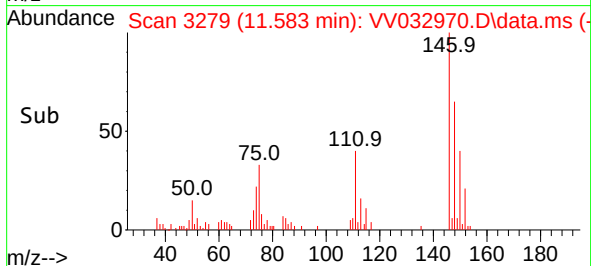
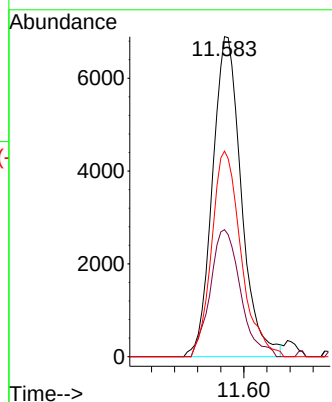
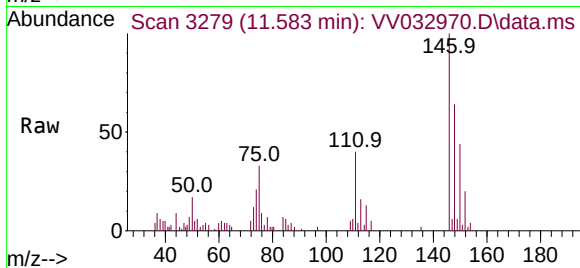
Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 11960 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 39.7  | 31.8  | 47.8  |
| 148      | 64.2  | 51.6  | 77.4  |



#68

1,2-Dibromo-3-chloropropane

Concen: 0.615 ug/L

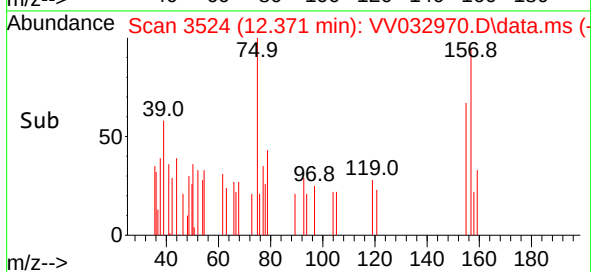
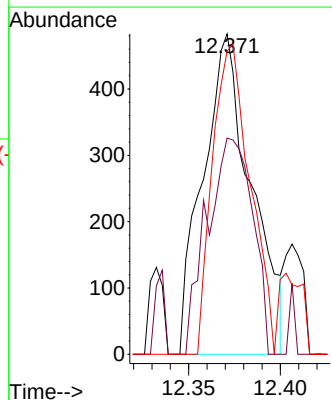
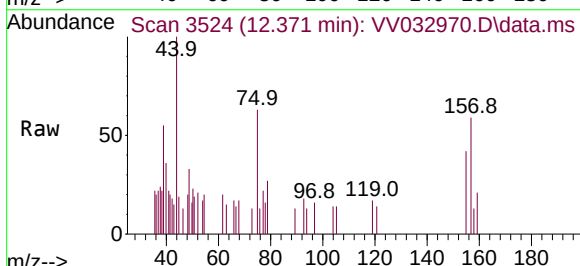
RT: 12.371 min Scan# 3524

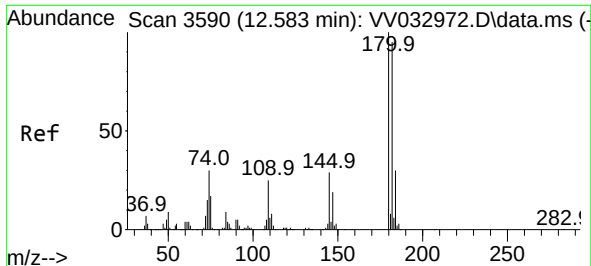
Delta R.T. 0.003 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 883    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 67.5  | 71.8  | 107.8# |
| 157      | 94.6  | 102.2 | 153.2# |





#69

1,3,5-Trichlorobenzene

Concen: 0.531 ug/L

RT: 12.586 min Scan# 31

Delta R.T. 0.003 min

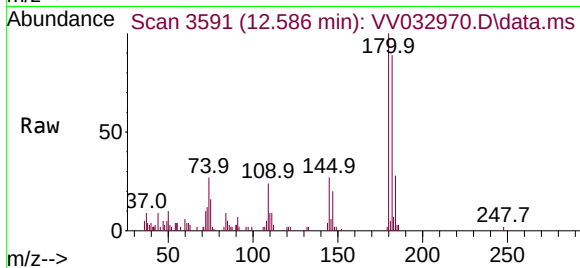
Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 10632

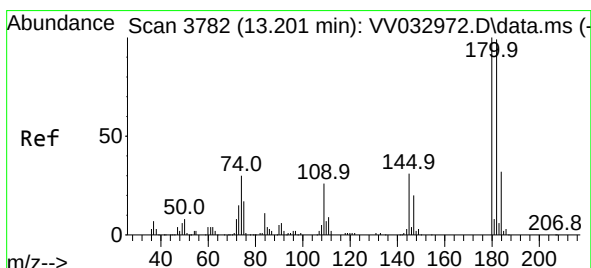
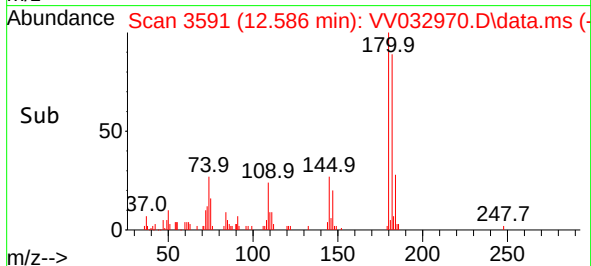
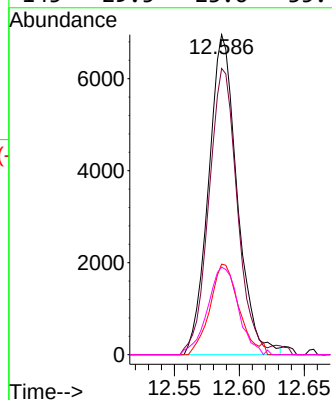
Ion Ratio Lower Upper

180 100

182 88.8 76.2 114.2

184 28.7 24.2 36.4

145 29.5 23.6 35.4



#70

1,2,4-trichlorobenzene

Concen: 0.555 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.003 min

Lab File: VV032970.D

Acq: 16 Nov 2023 17:36

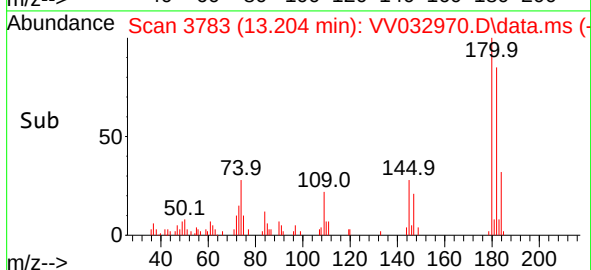
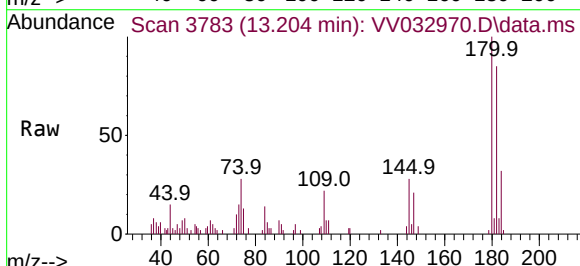
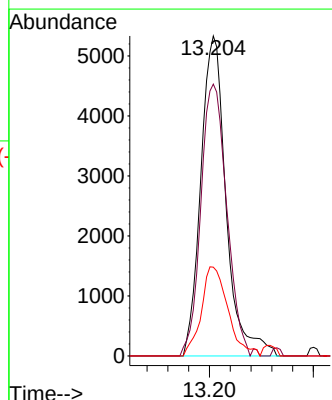
Tgt Ion:180 Resp: 9018

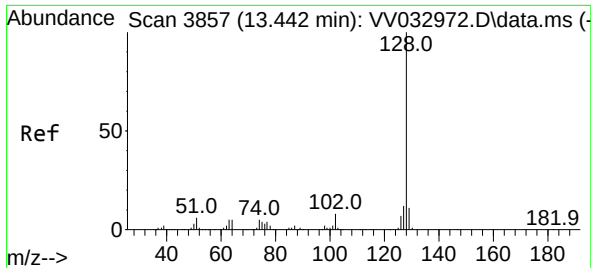
Ion Ratio Lower Upper

180 100

182 86.7 77.4 116.2

145 29.3 25.1 37.7

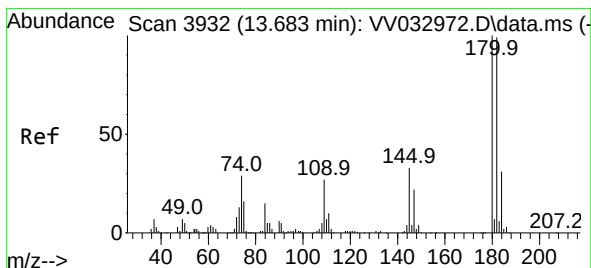
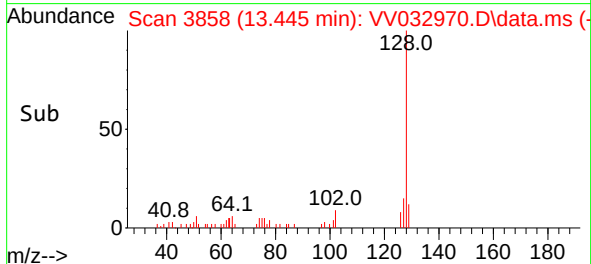
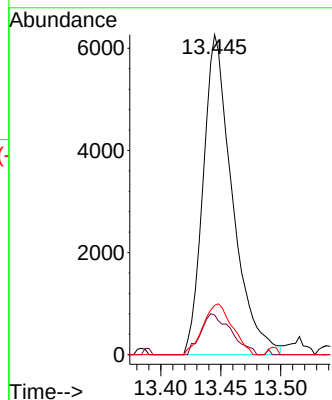
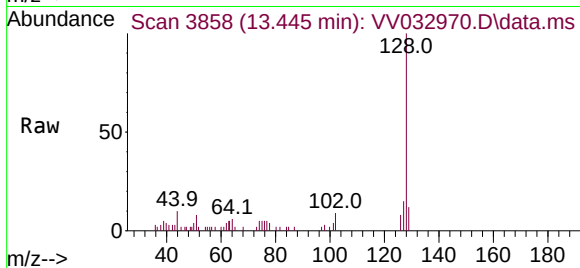




#71  
Naphthalene  
Concen: 0.469 ug/L  
RT: 13.445 min Scan# 3857  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:128 Resp: 10602  
Ion Ratio Lower Upper  
128 100  
129 13.3 8.8 13.2#  
127 15.9 10.3 15.5#



#72  
1,2,3-Trichlorobenzene  
Concen: 0.494 ug/L  
RT: 13.686 min Scan# 3933  
Delta R.T. 0.003 min  
Lab File: VV032970.D  
Acq: 16 Nov 2023 17:36

Tgt Ion:180 Resp: 6995  
Ion Ratio Lower Upper  
180 100  
182 98.1 76.7 115.1  
145 34.0 27.0 40.4

