

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121323\  
 Data File : VW033269.D  
 Acq On : 13 Dec 2023 09:50  
 Operator : SY/MD  
 Sample : VSTD0.5  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.5216

Quant Time: Dec 13 23:00:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 13 22:59:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 5.532  | 114  | 139047   | 5.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786  | 117  | 133335   | 5.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185 | 152  | 69490    | 5.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65   | 4264     | 0.379 | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.532  | 69   | 3309     | 0.314 | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.056  | 65   | 1685     | 0.338 | ug/L   | 0.00     |
| 20) 2-Butanone-d5             | 3.873  | 46   | 868      | 0.581 | ug/L   | 0.04     |
| 24) Chloroform-d              | 4.256  | 84   | 7944     | 0.394 | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 4.960  | 65   | 3237     | 0.362 | ug/L   | 0.02     |
| 32) Benzene-d6                | 4.966  | 84   | 14292    | 0.409 | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 5.998  | 67   | 3248     | 0.341 | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.249  | 98   | 13403    | 0.403 | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 7.571  | 79   | 1324     | 0.344 | ug/L   | 0.02     |
| 46) 2-Hexanone-d5             | 8.047  | 63   | 3285     | 2.577 | ug/L   | 0.02     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84   | 2081     | 0.299 | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152  | 5495     | 0.449 | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.105  | 85   | 8454     | 0.530 | ug/L   | 99       |
| 3) Chloromethane              | 1.214  | 50   | 5466     | 0.388 | ug/L   | 95       |
| 5) Vinyl chloride             | 1.282  | 62   | 5036     | 0.370 | ug/L   | 99       |
| 6) Bromomethane               | 1.487  | 94   | 3466     | 0.359 | ug/L   | 85       |
| 8) Chloroethane               | 1.548  | 64   | 3479     | 0.352 | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.716  | 101  | 9350     | 0.427 | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101  | 4417     | 0.369 | ug/L   | 94       |
| 12) 1,1-Dichloroethene        | 2.069  | 96   | 3895     | 0.350 | ug/L   | 89       |
| 13) Acetone                   | 2.179  | 43   | 117      | 0.086 | ug/L   | 81       |
| 14) Carbon disulfide          | 2.240  | 76   | 13108    | 0.400 | ug/L   | 96       |
| 15) Methyl Acetate            | 2.404  | 43   | 743      | 0.246 | ug/L   | 98       |
| 16) Methylene chloride        | 2.449  | 84   | 5497     | 0.410 | ug/L   | 93       |
| 17) Methyl tert-butyl Ether   | 2.706  | 73   | 7624     | 0.394 | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 2.693  | 96   | 4818     | 0.439 | ug/L   | 90       |
| 19) 1,1-Dichloroethane        | 3.117  | 63   | 7720     | 0.405 | ug/L   | 94       |
| 21) 2-Butanone                | 3.966  | 43   | 776      | 0.458 | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.825  | 96   | 4504     | 0.396 | ug/L   | 89       |
| 23) Bromochloromethane        | 4.150  | 128  | 1378     | 0.268 | ug/L   | 79       |
| 25) Chloroform                | 4.278  | 83   | 8558     | 0.401 | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.056  | 62   | 4418     | 0.386 | ug/L # | 72       |
| 29) 1,1,1-Trichloroethane     | 4.506  | 97   | 8947     | 0.480 | ug/L   | 98       |
| 30) Cyclohexane               | 4.580  | 56   | 5399     | 0.421 | ug/L   | 93       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 8506     | 0.519 | ug/L   | 97       |
| 33) Benzene                   | 5.014  | 78   | 16870    | 0.435 | ug/L   | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 4927     | 0.452 | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.053  | 83   | 7265     | 0.491 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.095  | 63   | 3574     | 0.386 | ug/L # | 91       |
| 38) Bromodichloromethane      | 6.439  | 83   | 5310     | 0.399 | ug/L # | 99       |
| 39) cis-1,3-Dichloropropene   | 6.963  | 75   | 4697     | 0.352 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.169  | 43   | 9911     | 2.747 | ug/L   | 98       |
| 42) Toluene                   | 7.320  | 91   | 18462    | 0.429 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.590  | 75   | 3920     | 0.363 | ug/L   | 93       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121323\  
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 Operator : SY/MD  
 Sample : VSTD0.5  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

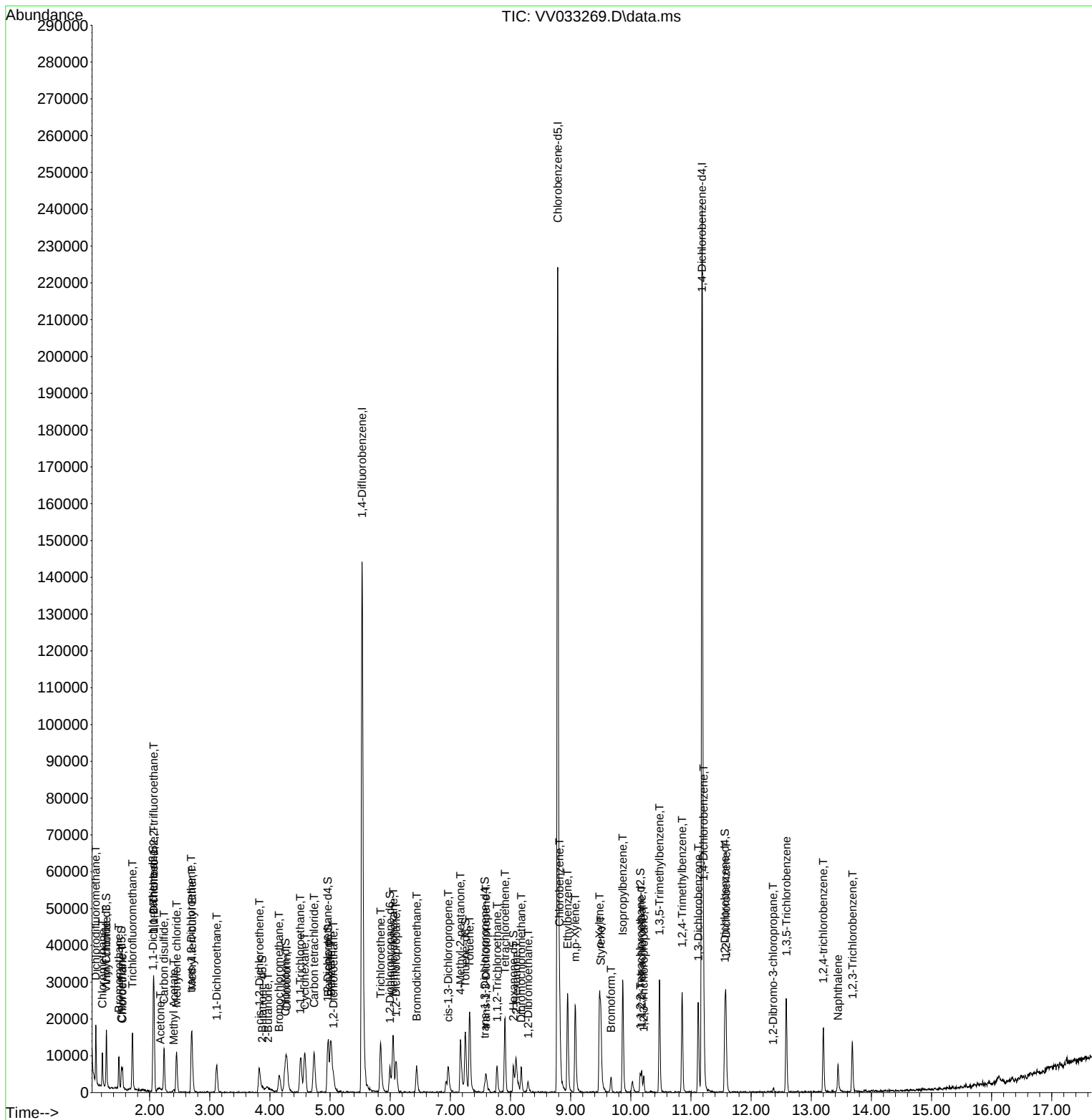
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.5216

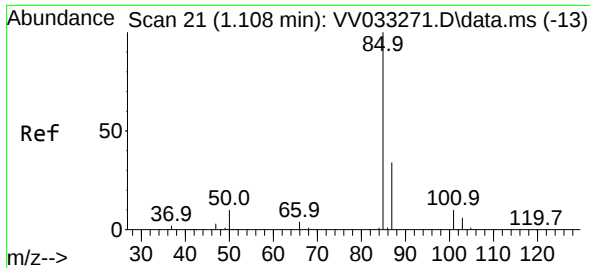
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 13 22:59:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 45) 1,1,2-Trichloroethane     | 7.776  | 97   | 2584     | 0.380 | ug/L   | 93       |
| 47) Tetrachloroethene         | 7.908  | 164  | 4854     | 0.515 | ug/L   | 93       |
| 48) 2-Hexanone                | 8.095  | 43   | 6778     | 2.514 | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.182  | 129  | 3454     | 0.409 | ug/L   | 76       |
| 50) 1,2-Dibromoethane         | 8.294  | 107  | 2026     | 0.312 | ug/L # | 99       |
| 51) Chlorobenzene             | 8.815  | 112  | 13204    | 0.455 | ug/L   | 97       |
| 52) Ethylbenzene              | 8.950  | 91   | 20048    | 0.441 | ug/L   | 100      |
| 53) m,p-Xylene                | 9.079  | 106  | 8606     | 0.480 | ug/L   | 87       |
| 54) o-Xylene                  | 9.481  | 106  | 7941     | 0.470 | ug/L   | 93       |
| 55) Styrene                   | 9.503  | 104  | 11705    | 0.405 | ug/L   | 94       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 2515     | 0.339 | ug/L # | 94       |
| 59) Bromoform                 | 9.670  | 173  | 1904     | 0.429 | ug/L   | 96       |
| 60) Isopropylbenzene          | 9.866  | 105  | 21216    | 0.481 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 1871     | 0.387 | ug/L   | 91       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 16982    | 0.484 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.853 | 105  | 15321    | 0.436 | ug/L   | 91       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 11123    | 0.476 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 11691    | 0.492 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 9470     | 0.460 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 325      | 0.273 | ug/L # | 66       |
| 69) 1,3,5-Trichlorobenzene    | 12.587 | 180  | 8890     | 0.502 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 6728     | 0.471 | ug/L   | 96       |
| 71) Naphthalene               | 13.445 | 128  | 7400     | 0.390 | ug/L   | 97       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 5004     | 0.413 | ug/L   | 94       |
| -----                         |        |      |          |       |        |          |

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

Quant Time: Dec 13 23:00:01 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121323WMA.M  
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QLast Update : Wed Dec 13 22:59:35 2023  
Response via : Initial Calibration

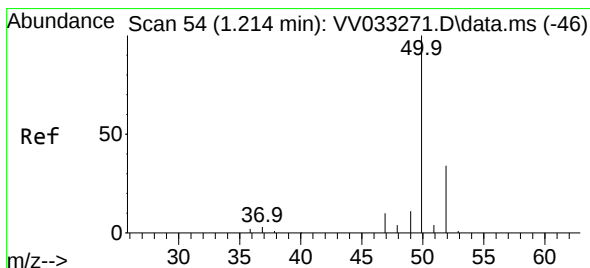
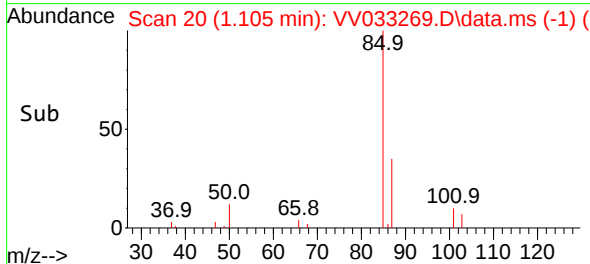
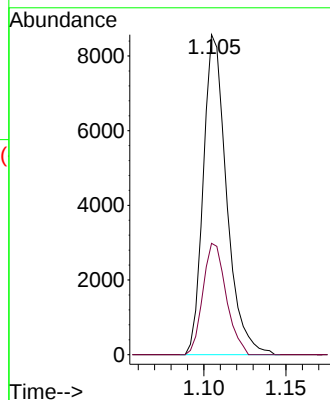
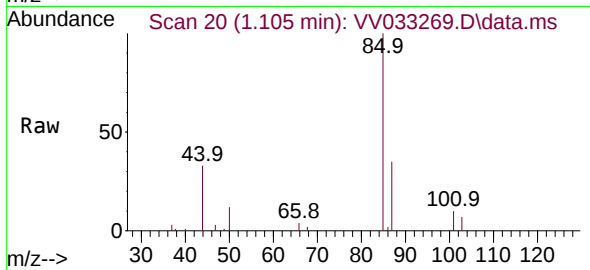




#2  
 Dichlorodifluoromethane  
 Concen: 0.530 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. -0.003 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

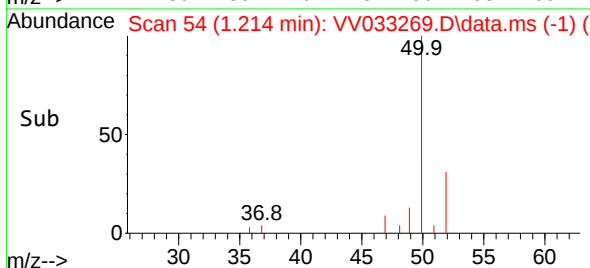
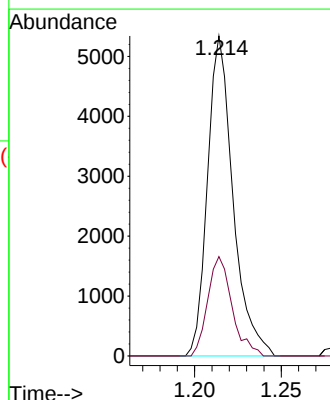
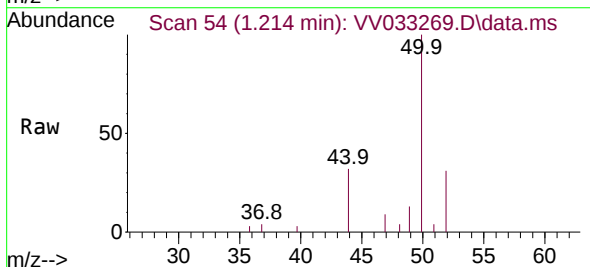
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.5216

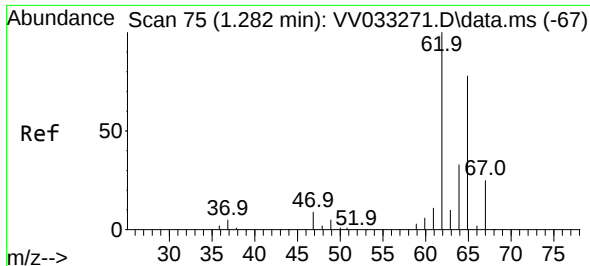
Tgt Ion: 85 Resp: 8454  
 Ion Ratio Lower Upper  
 85 100  
 87 34.8 27.4 41.2



#3  
 Chloromethane  
 Concen: 0.388 ug/L  
 RT: 1.214 min Scan# 54  
 Delta R.T. -0.000 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

Tgt Ion: 50 Resp: 5466  
 Ion Ratio Lower Upper  
 50 100  
 52 31.1 23.8 44.2

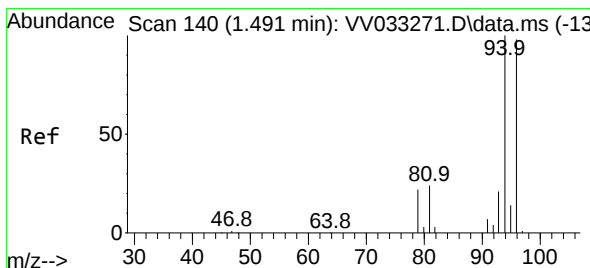
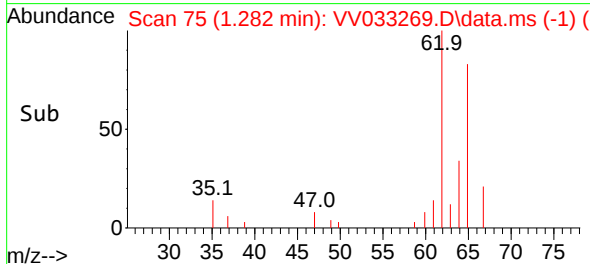
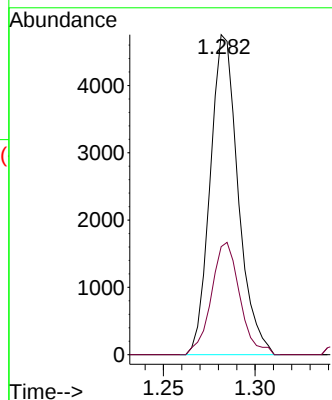
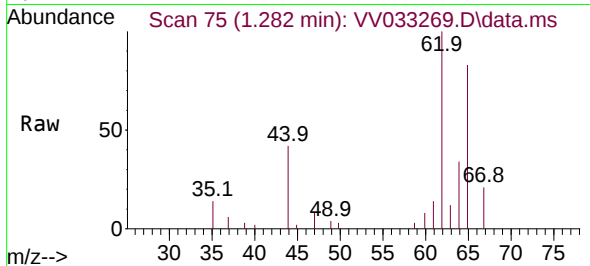




#5  
 Vinyl chloride  
 Concen: 0.370 ug/L  
 RT: 1.282 min Scan# 75  
 Delta R.T. -0.000 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

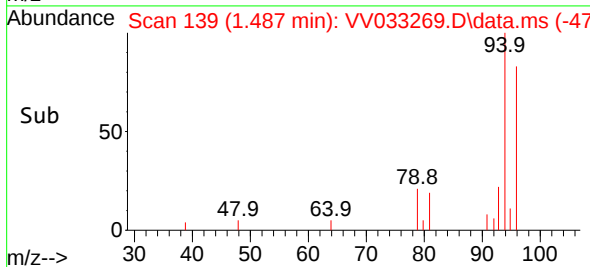
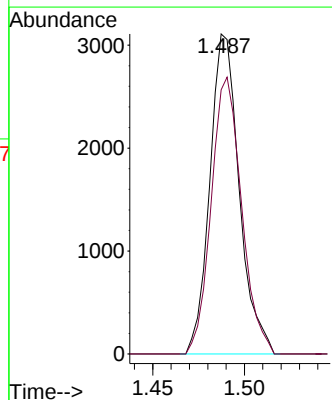
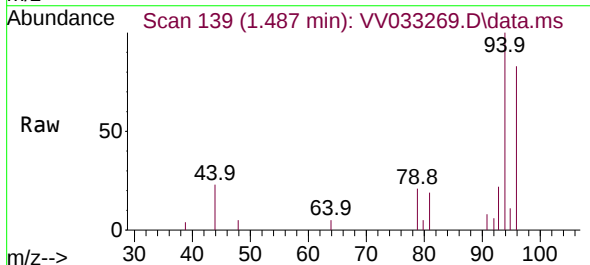
Instrument :  
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 ClientSampleId :  
 VSTD0.5216

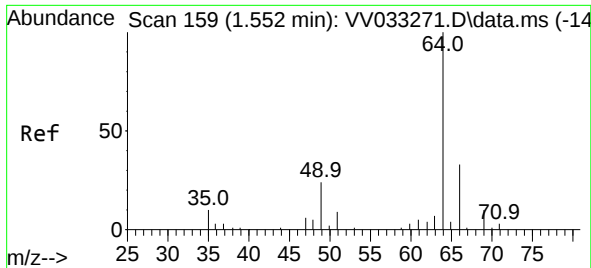
Tgt Ion: 62 Resp: 5036  
 Ion Ratio Lower Upper  
 62 100  
 64 33.7 23.0 42.8



#6  
 Bromomethane  
 Concen: 0.359 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. -0.003 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

Tgt Ion: 94 Resp: 3466  
 Ion Ratio Lower Upper  
 94 100  
 96 82.5 68.3 126.8

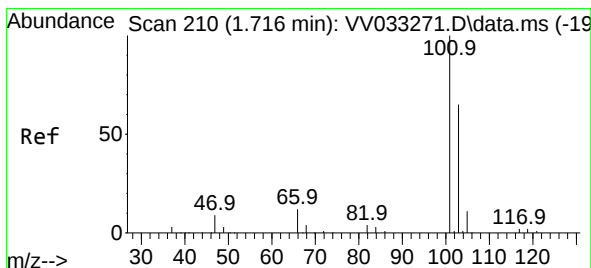
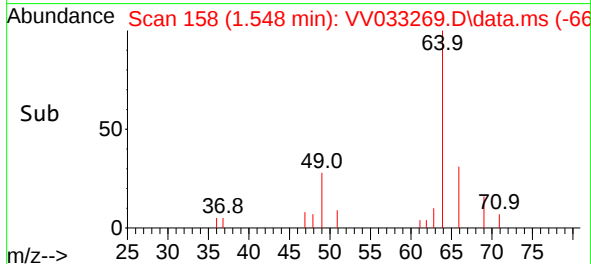
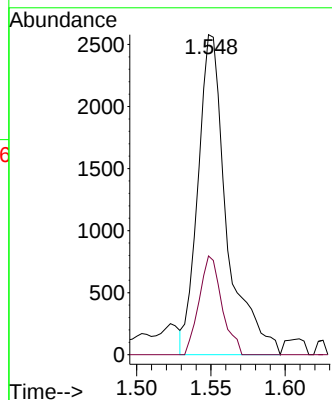
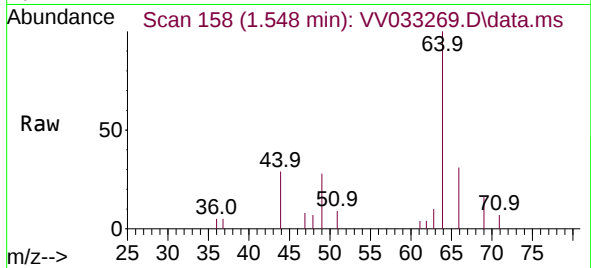




#8  
Chloroethane  
Concen: 0.352 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

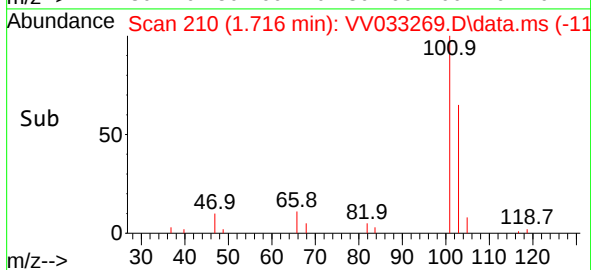
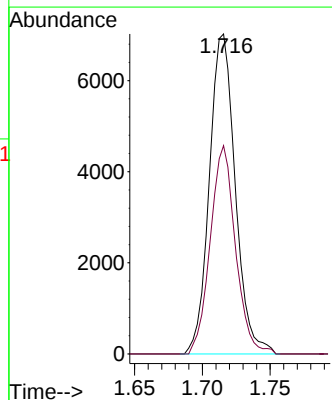
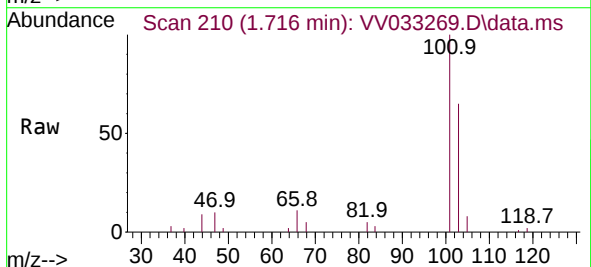
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

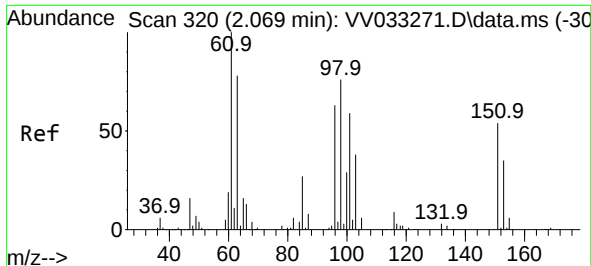
Tgt Ion: 64 Resp: 3479  
Ion Ratio Lower Upper  
64 100  
66 30.9 22.9 42.5



#9  
Trichlorofluoromethane  
Concen: 0.427 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. -0.000 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 101 Resp: 9350  
Ion Ratio Lower Upper  
101 100  
103 63.3 51.8 77.8





#10

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

Concen: 0.369 ug/L

RT: 2.069 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.5216

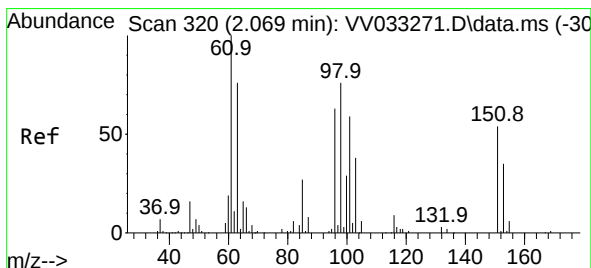
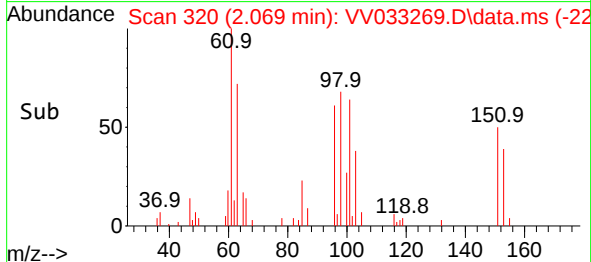
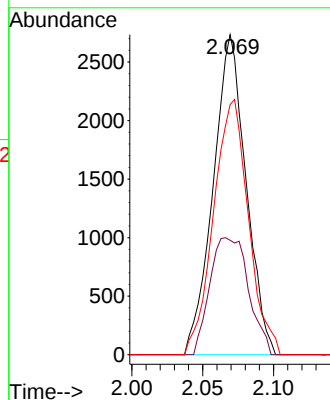
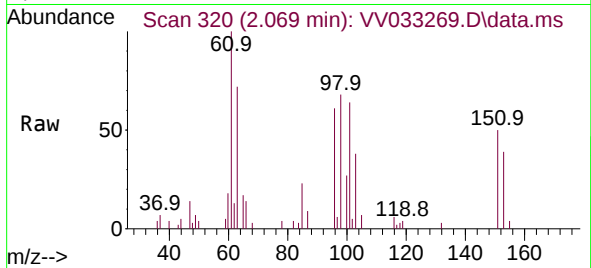
Tgt Ion:101 Resp: 4417

Ion Ratio Lower Upper

101 100

85 43.0 36.2 54.2

151 84.6 72.8 109.2



#12

1,1-Dichloroethene

Concen: 0.350 ug/L

RT: 2.069 min Scan# 320

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

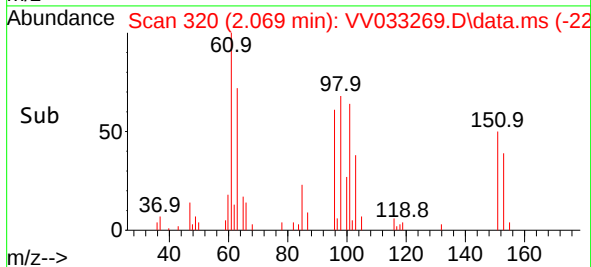
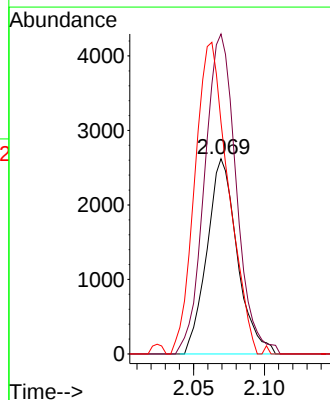
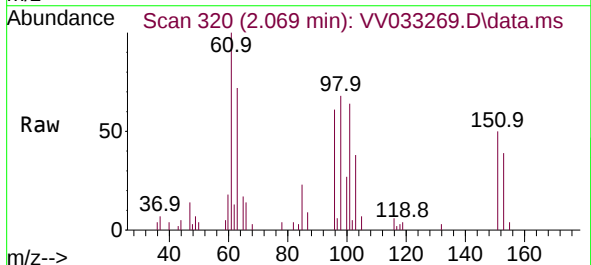
Tgt Ion: 96 Resp: 3895

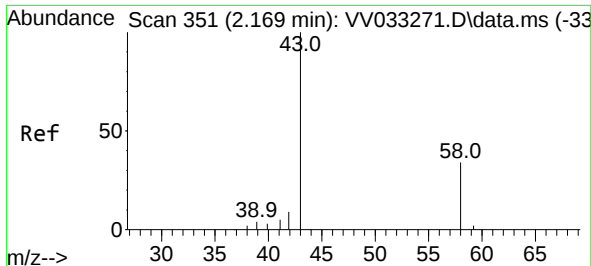
Ion Ratio Lower Upper

96 100

61 148.4 111.6 207.2

63 107.4 87.1 161.7





#13

Acetone

Concen: 0.086 ug/L

RT: 2.179 min Scan# 351

Delta R.T. 0.010 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

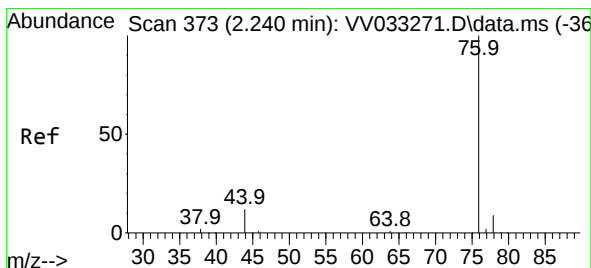
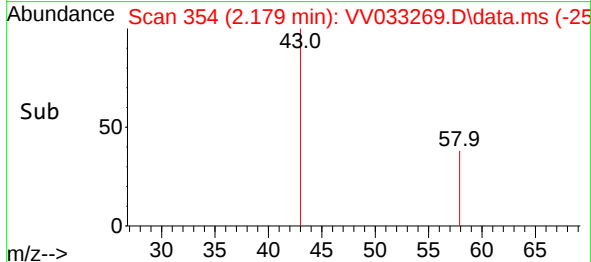
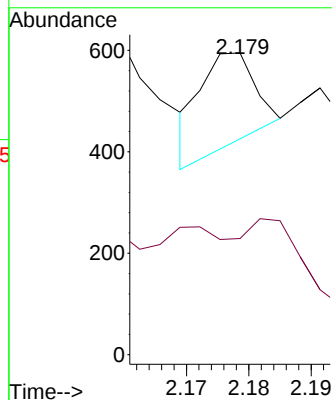
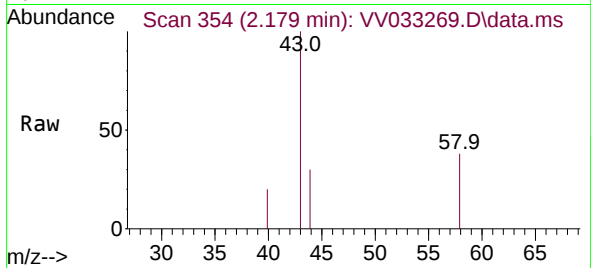
VSTD0.5216

Tgt Ion: 43 Resp: 117

Ion Ratio Lower Upper

43 100

58 23.1 0.0 30.2



#14

Carbon disulfide

Concen: 0.400 ug/L

RT: 2.240 min Scan# 373

Delta R.T. -0.000 min

Lab File: VV033269.D

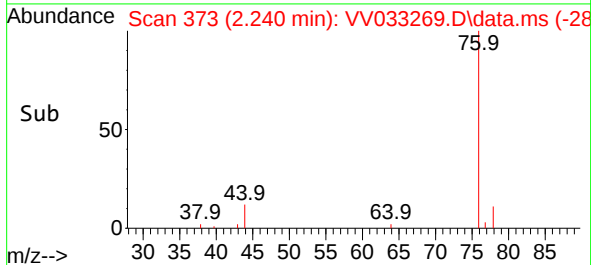
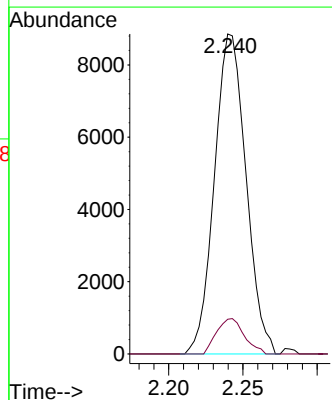
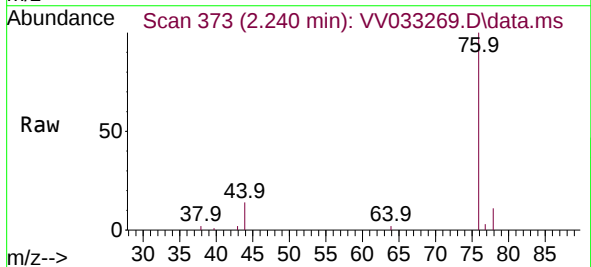
Acq: 13 Dec 2023 09:50

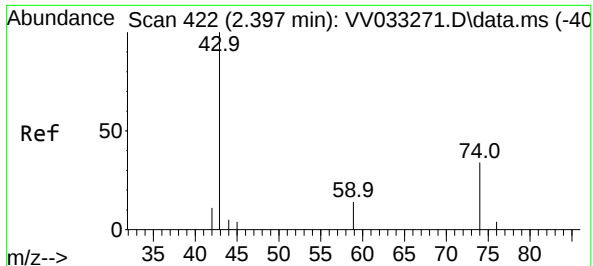
Tgt Ion: 76 Resp: 13108

Ion Ratio Lower Upper

76 100

78 10.8 7.4 11.0

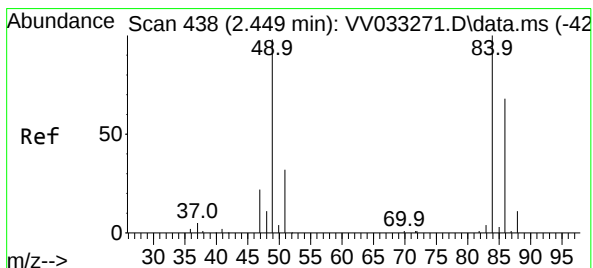
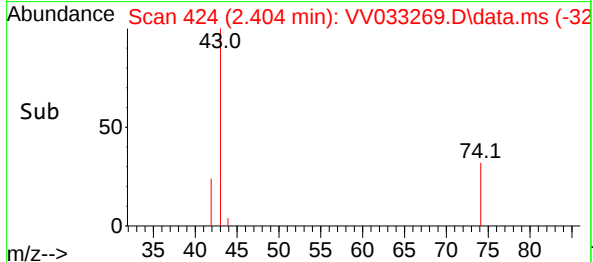
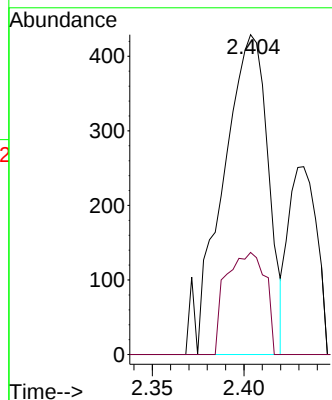
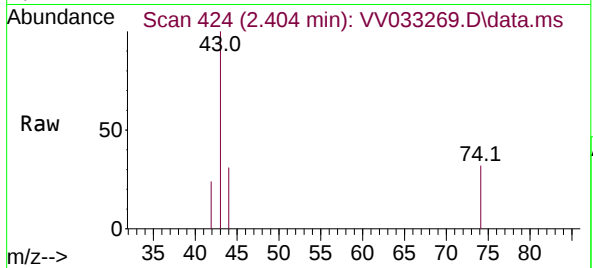




#15  
Methyl Acetate  
Concen: 0.246 ug/L  
RT: 2.404 min Scan# 431  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

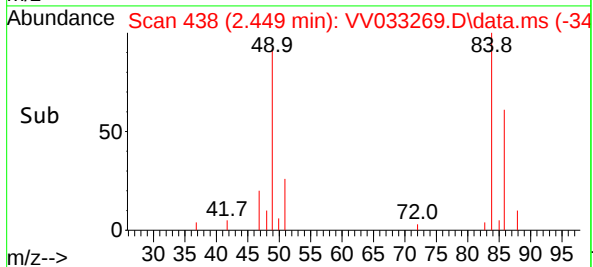
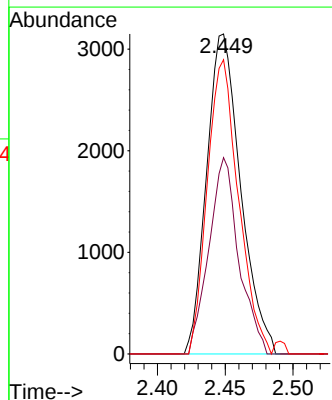
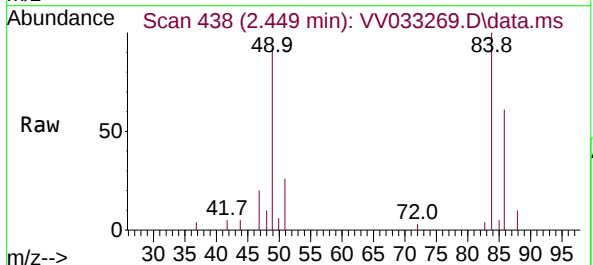
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

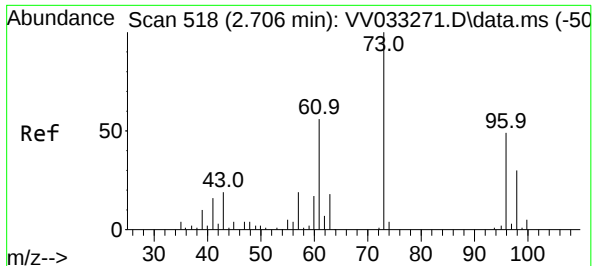
Tgt Ion: 43 Resp: 743  
Ion Ratio Lower Upper  
43 100  
74 27.5 21.0 31.6



#16  
Methylene chloride  
Concen: 0.410 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. -0.000 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 84 Resp: 5497  
Ion Ratio Lower Upper  
84 100  
86 61.3 47.5 88.1  
49 92.0 68.9 127.9





#17

Methyl tert-butyl Ether

Concen: 0.394 ug/L

RT: 2.706 min Scan# 518

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.5216

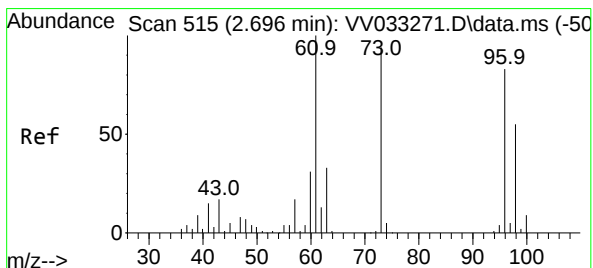
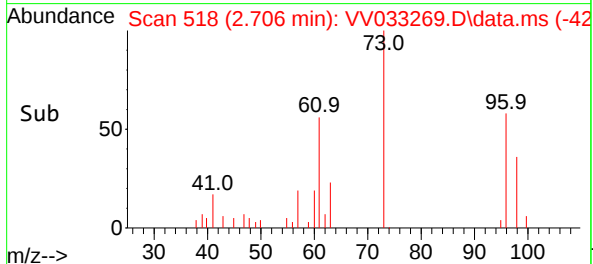
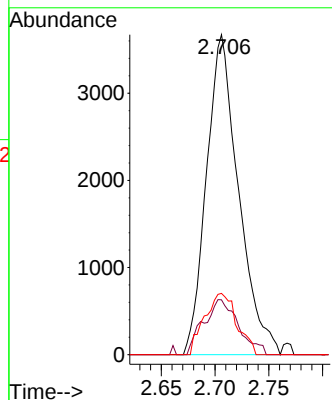
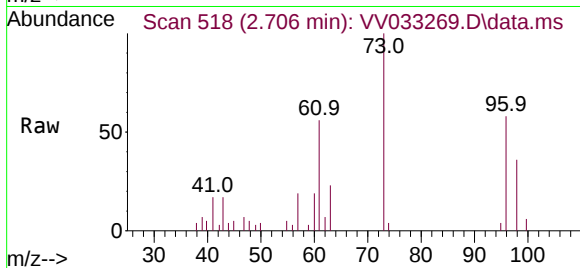
Tgt Ion: 73 Resp: 7624

Ion Ratio Lower Upper

73 100

43 18.8 16.0 24.0

57 19.2 15.6 23.4



#18

trans-1,2-Dichloroethene

Concen: 0.439 ug/L

RT: 2.693 min Scan# 514

Delta R.T. -0.003 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

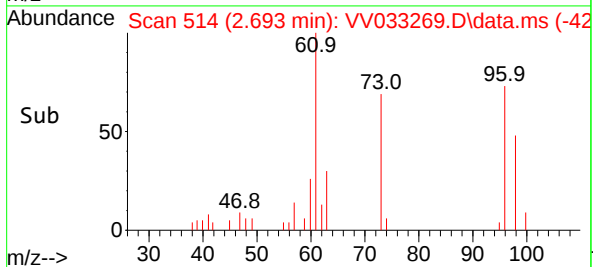
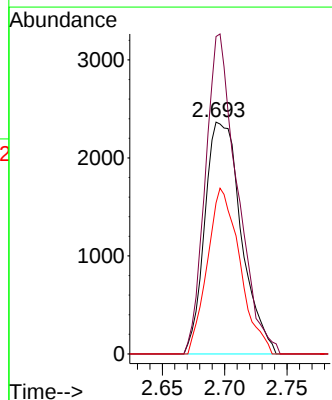
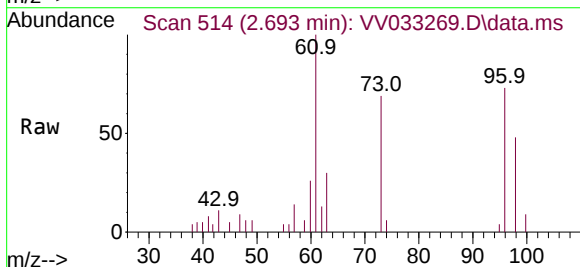
Tgt Ion: 96 Resp: 4818

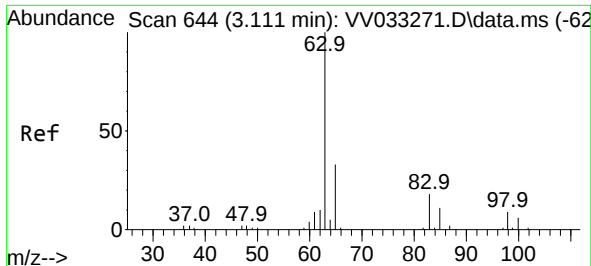
Ion Ratio Lower Upper

96 100

61 137.0 84.6 157.2

98 65.2 46.7 86.7





#19

1,1-Dichloroethane

Concen: 0.405 ug/L

RT: 3.117 min Scan# 64

Delta R.T. 0.006 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.5216

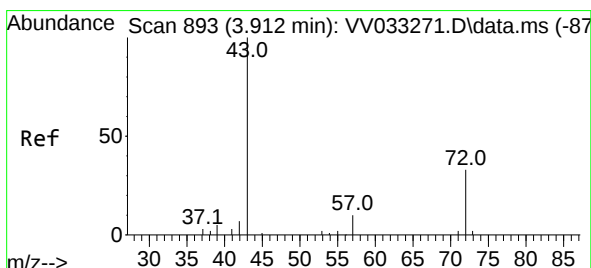
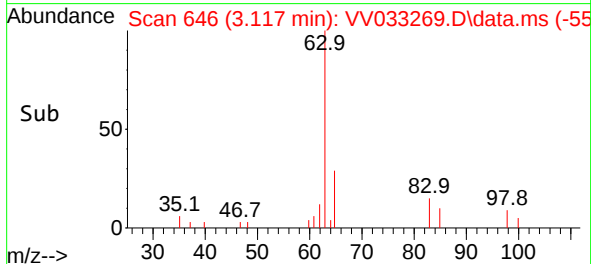
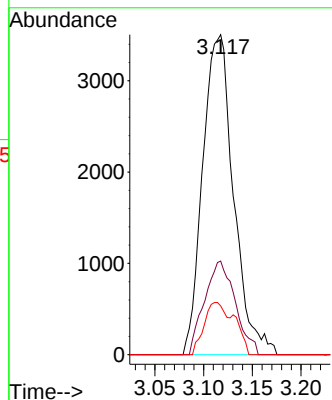
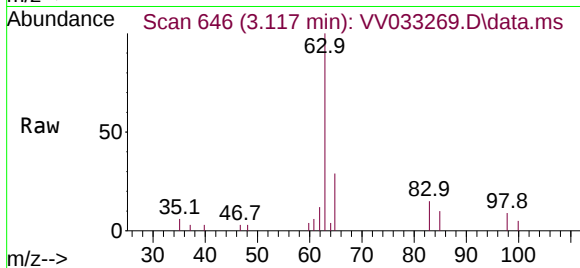
Tgt Ion: 63 Resp: 7720

Ion Ratio Lower Upper

63 100

65 29.3 22.9 42.5

83 15.3 12.6 23.4



#21

2-Butanone

Concen: 0.458 ug/L

RT: 3.966 min Scan# 910

Delta R.T. 0.055 min

Lab File: VV033269.D

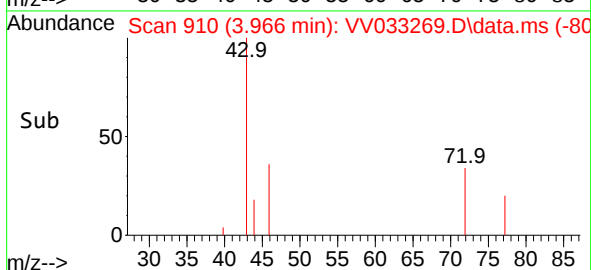
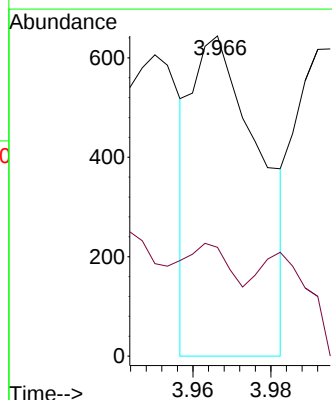
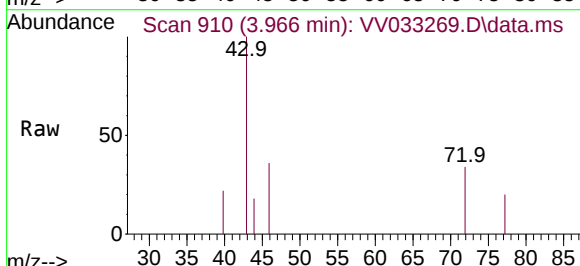
Acq: 13 Dec 2023 09:50

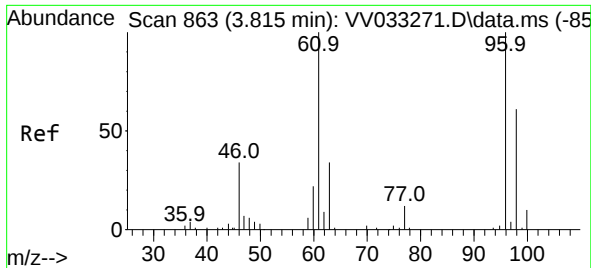
Tgt Ion: 43 Resp: 776

Ion Ratio Lower Upper

43 100

72 28.7 14.8 44.3

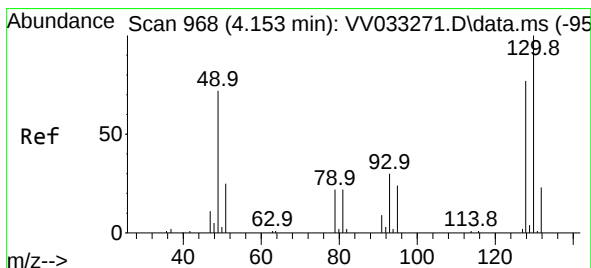
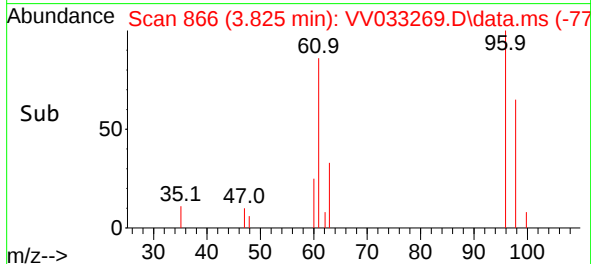
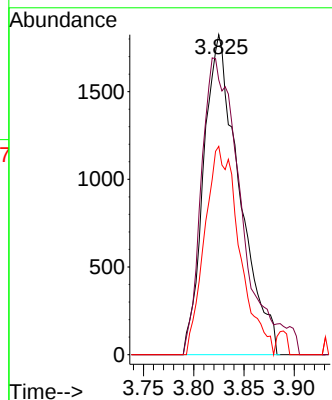
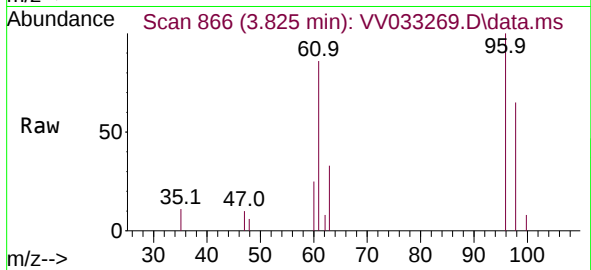




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.396 ug/L  
 RT: 3.825 min Scan# 863  
 Delta R.T. 0.010 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

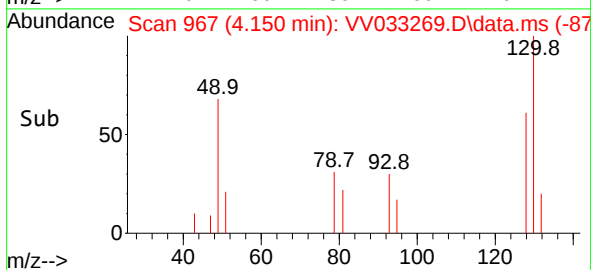
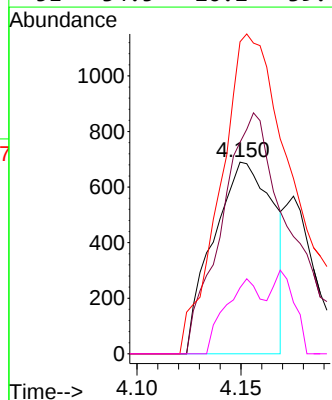
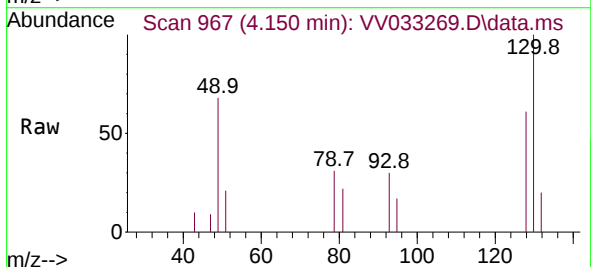
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.5216

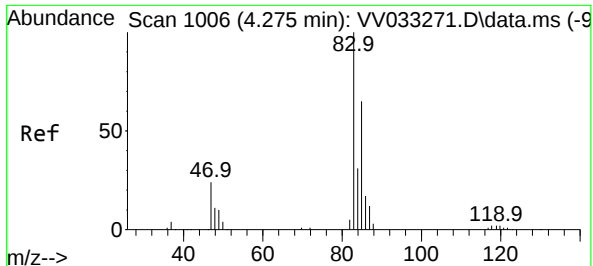
Tgt Ion: 96 Resp: 4504  
 Ion Ratio Lower Upper  
 96 100  
 61 85.9 69.9 129.9  
 98 65.1 42.4 78.8



#23  
 Bromochloromethane  
 Concen: 0.268 ug/L  
 RT: 4.150 min Scan# 967  
 Delta R.T. -0.003 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

Tgt Ion: 128 Resp: 1378  
 Ion Ratio Lower Upper  
 128 100  
 49 110.3 65.8 122.2  
 130 162.8 91.1 169.3  
 51 34.5 26.2 39.4





#25

Chloroform

Concen: 0.401 ug/L

RT: 4.278 min Scan# 1006

Delta R.T. 0.003 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

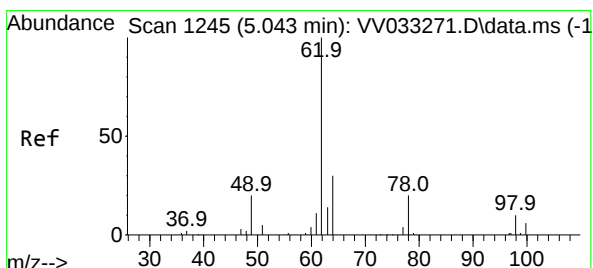
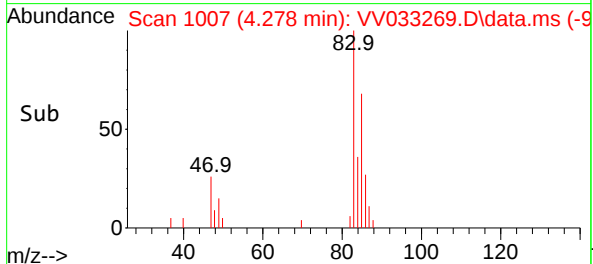
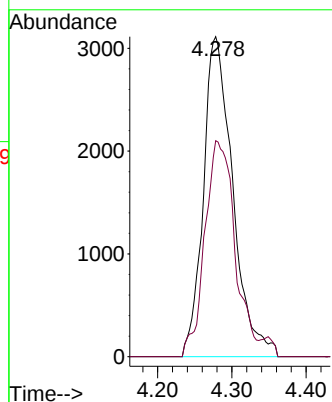
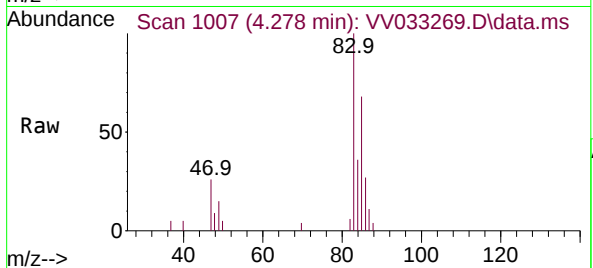
VSTD0.5216

Tgt Ion: 83 Resp: 8558

Ion Ratio Lower Upper

83 100

85 67.5 45.3 84.1



#27

1,2-Dichloroethane

Concen: 0.386 ug/L

RT: 5.056 min Scan# 1249

Delta R.T. 0.013 min

Lab File: VV033269.D

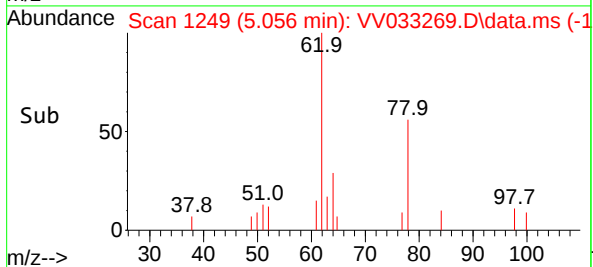
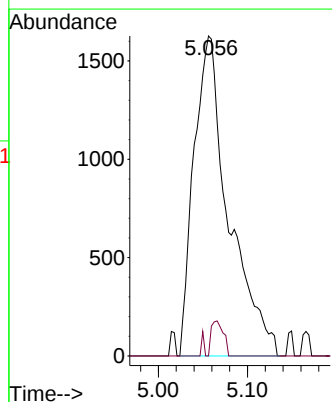
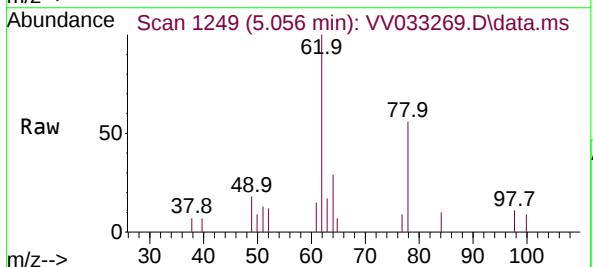
Acq: 13 Dec 2023 09:50

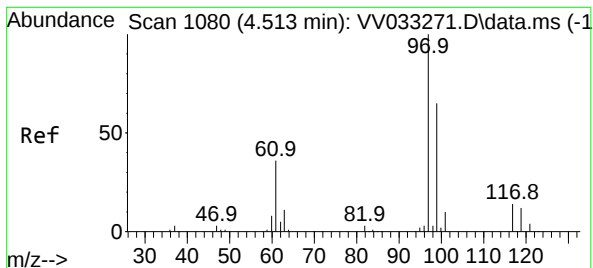
Tgt Ion: 62 Resp: 4418

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#





#29

1,1,1-Trichloroethane

Concen: 0.480 ug/L

RT: 4.506 min Scan# 1107

Delta R.T. -0.006 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.5216

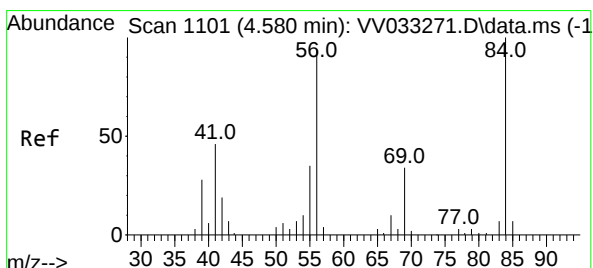
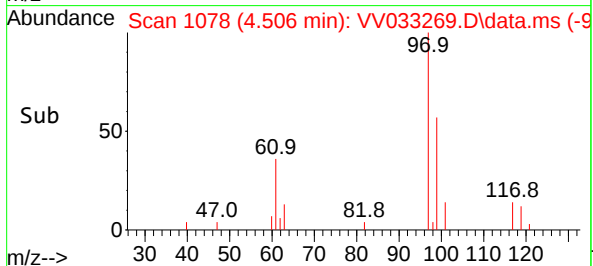
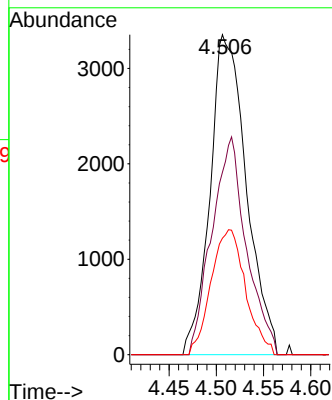
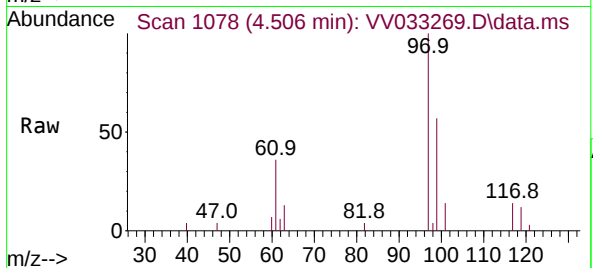
Tgt Ion: 97 Resp: 8947

Ion Ratio Lower Upper

97 100

99 64.6 52.8 79.2

61 37.1 30.3 45.5



#30

Cyclohexane

Concen: 0.421 ug/L

RT: 4.580 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

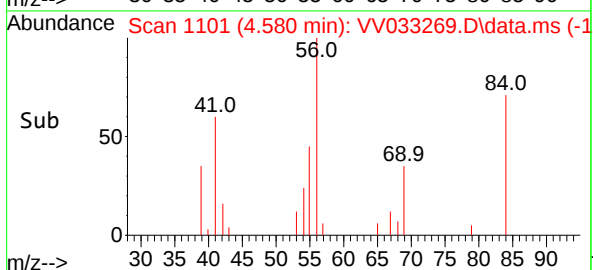
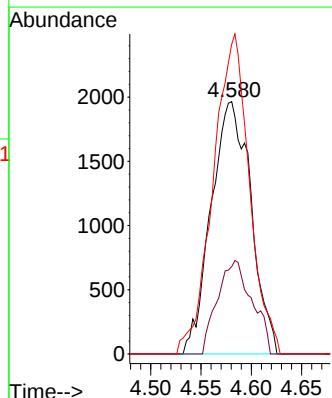
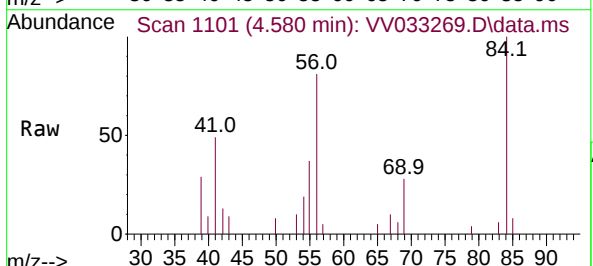
Tgt Ion: 56 Resp: 5399

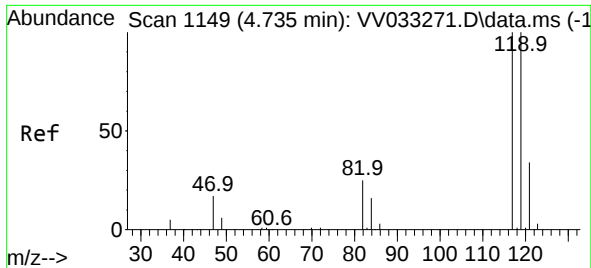
Ion Ratio Lower Upper

56 100

69 32.1 28.8 43.2

84 115.2 86.2 129.4

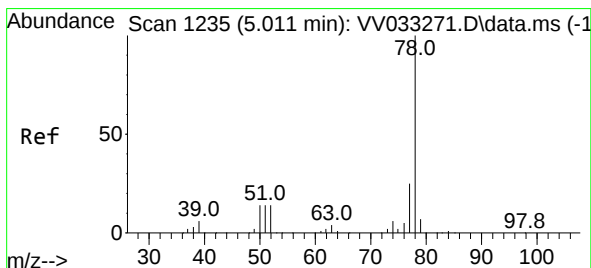
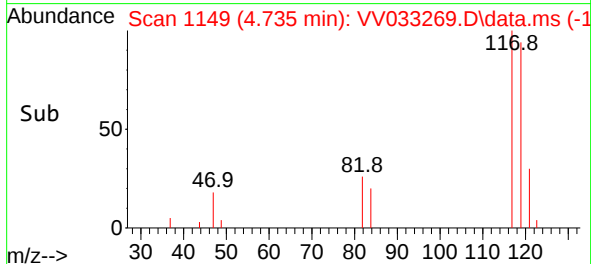
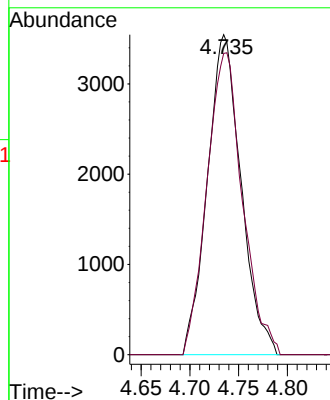
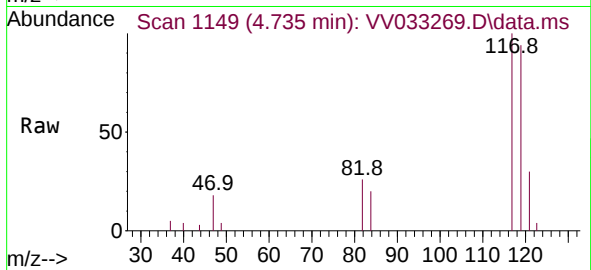




#31  
Carbon tetrachloride  
Concen: 0.519 ug/L  
RT: 4.735 min Scan# 1149  
Delta R.T. -0.000 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

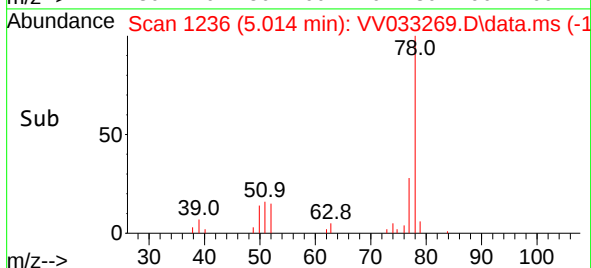
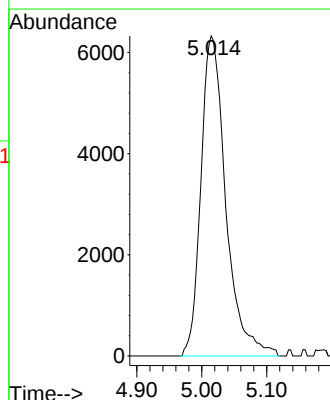
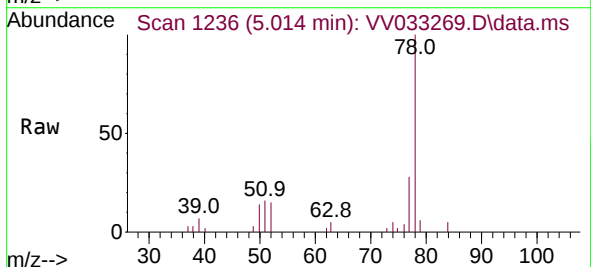
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

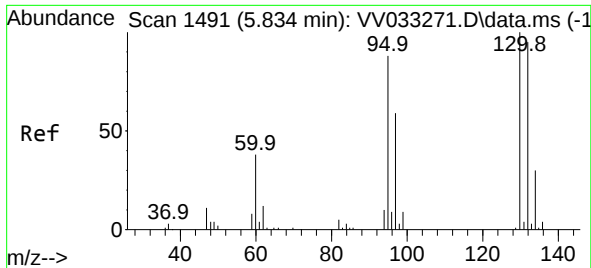
Tgt Ion:117 Resp: 8506  
Ion Ratio Lower Upper  
117 100  
119 99.9 77.8 116.8



#33  
Benzene  
Concen: 0.435 ug/L  
RT: 5.014 min Scan# 1236  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 78 Resp: 16870



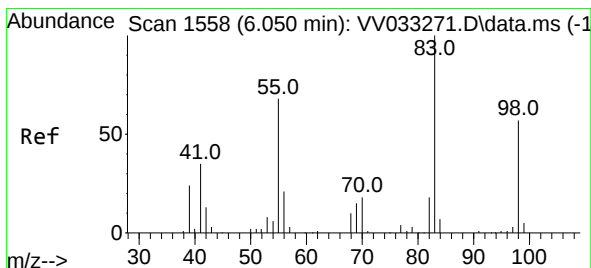
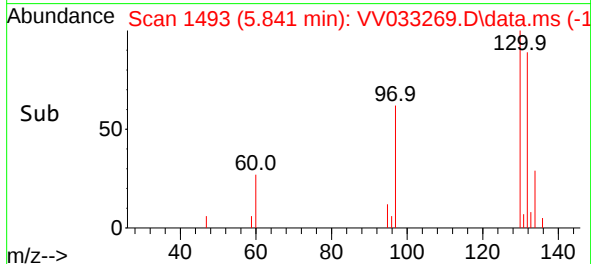
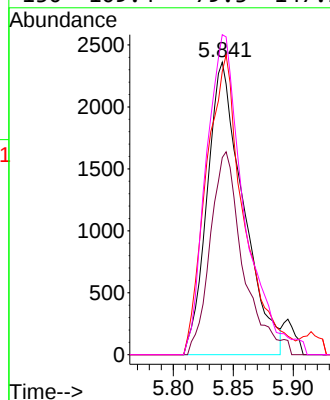
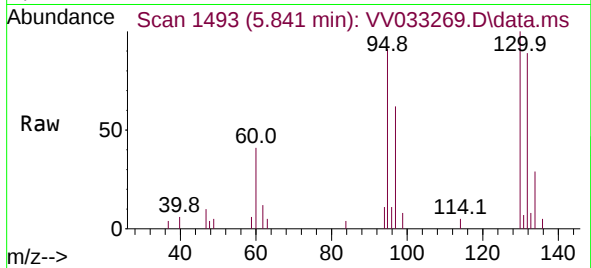


#34  
Trichloroethene  
Concen: 0.452 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

Tgt Ion: 95 Resp: 4927

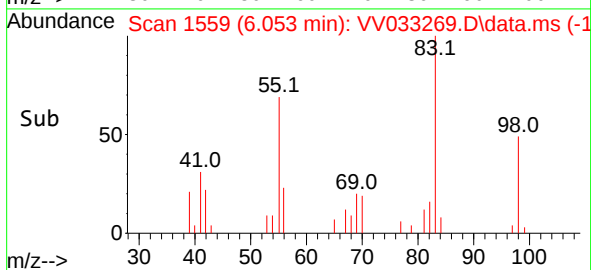
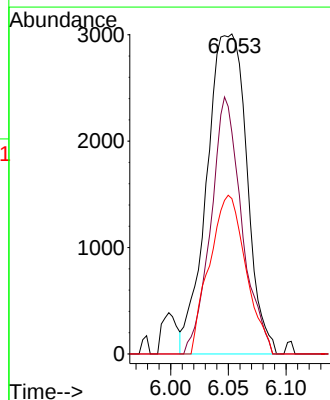
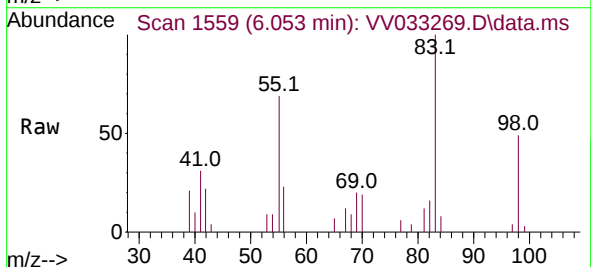
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 67.4  | 46.5  | 86.5  |
| 132 | 96.8  | 75.1  | 139.5 |
| 130 | 109.4 | 79.3  | 147.3 |

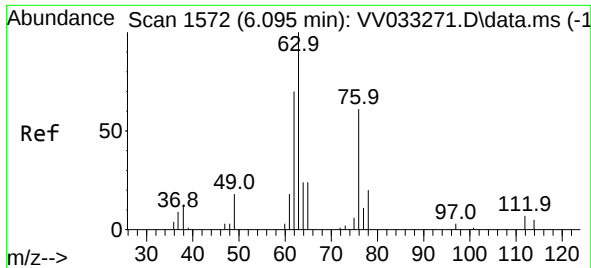


#35  
Methylcyclohexane  
Concen: 0.491 ug/L  
RT: 6.053 min Scan# 1559  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 83 Resp: 7265

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 62.0  | 50.7  | 76.1  |
| 98  | 45.0  | 42.4  | 63.6  |





#37

1,2-Dichloropropane

Concen: 0.386 ug/L

RT: 6.095 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

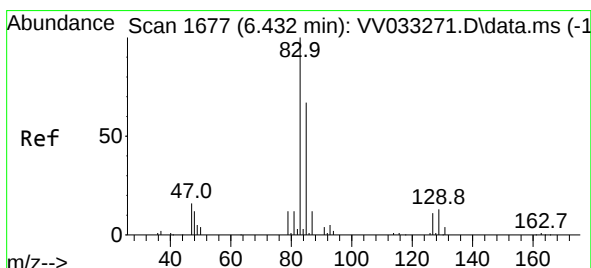
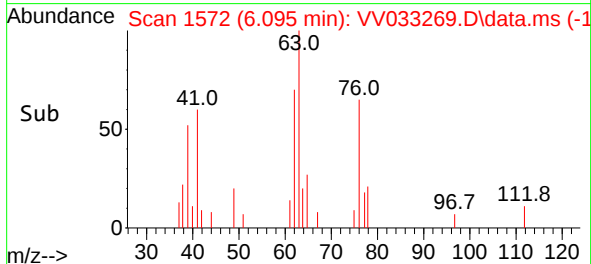
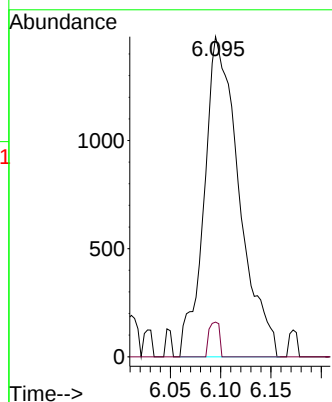
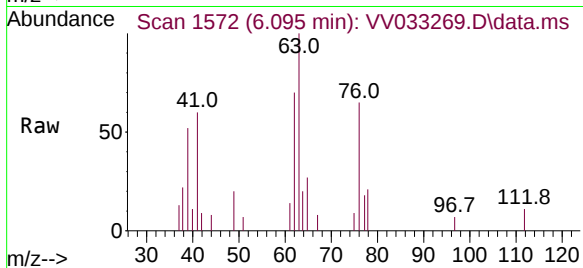
VSTD0.5216

Tgt Ion: 63 Resp: 3574

Ion Ratio Lower Upper

63 100

112 3.2 5.0 7.6#



#38

Bromodichloromethane

Concen: 0.399 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. 0.006 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

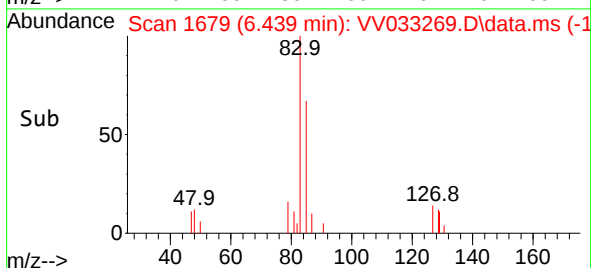
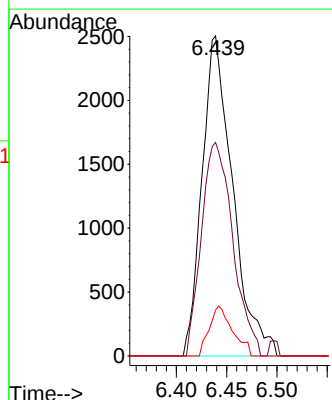
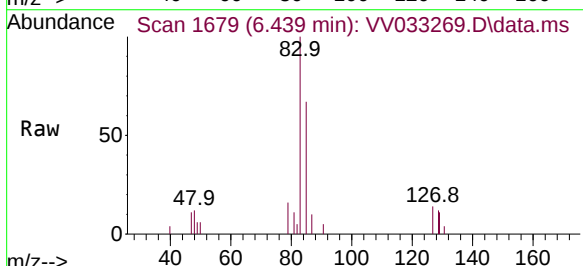
Tgt Ion: 83 Resp: 5310

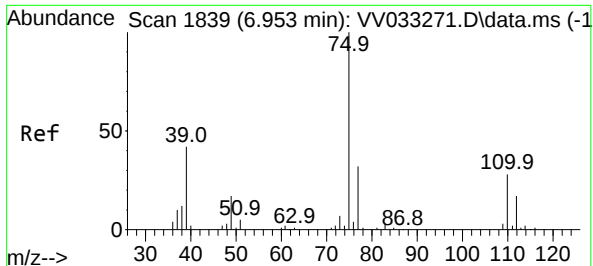
Ion Ratio Lower Upper

83 100

85 66.8 46.6 86.6

127 14.3 8.6 13.0#





#39

cis-1,3-Dichloropropene

Concen: 0.352 ug/L

RT: 6.963 min Scan# 1842

Delta R.T. 0.010 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

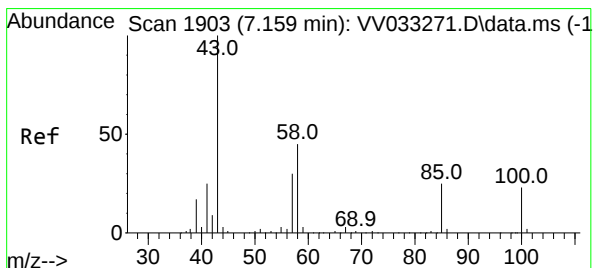
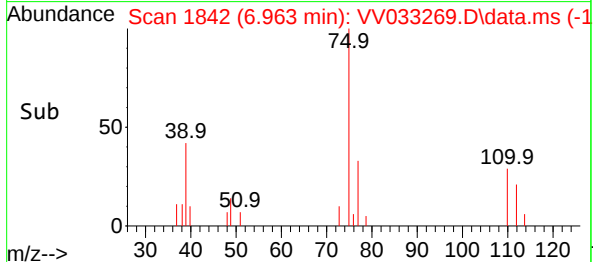
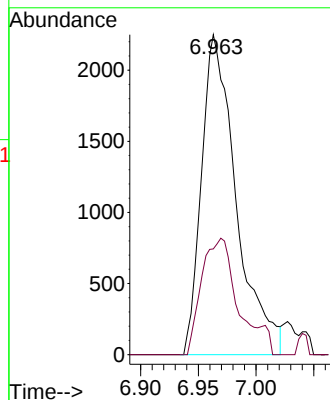
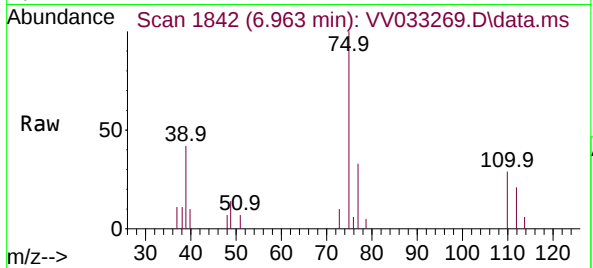
VSTD0.5216

Tgt Ion: 75 Resp: 4697

Ion Ratio Lower Upper

75 100

77 33.0 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 2.747 ug/L

RT: 7.169 min Scan# 1906

Delta R.T. 0.010 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

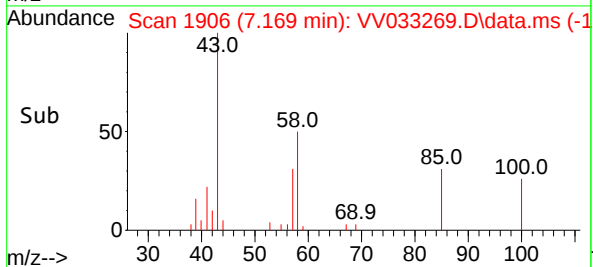
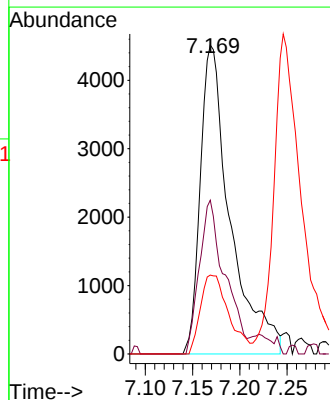
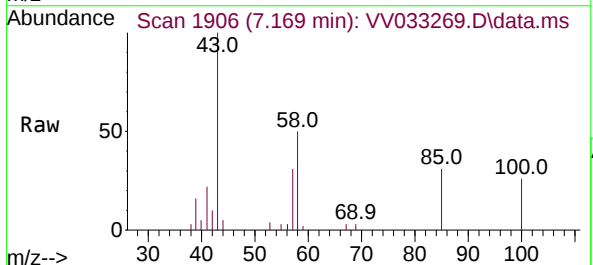
Tgt Ion: 43 Resp: 9911

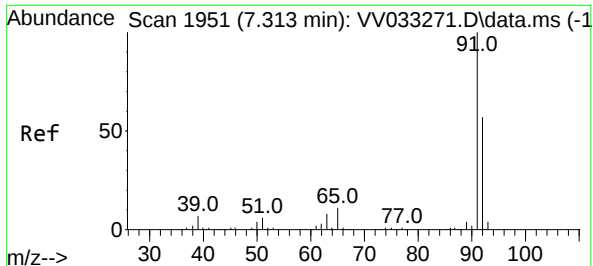
Ion Ratio Lower Upper

43 100

58 43.2 36.2 54.2

100 24.2 18.8 28.2





#42

Toluene

Concen: 0.429 ug/L

RT: 7.320 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

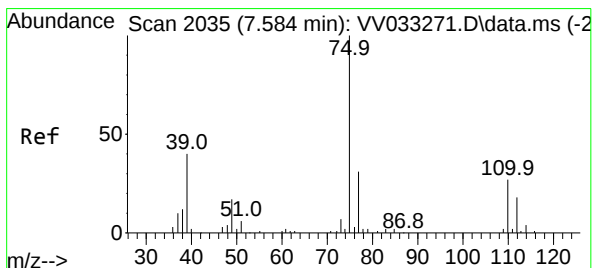
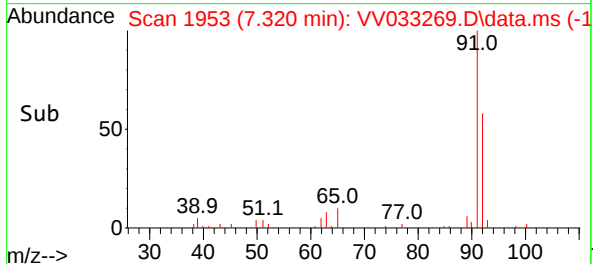
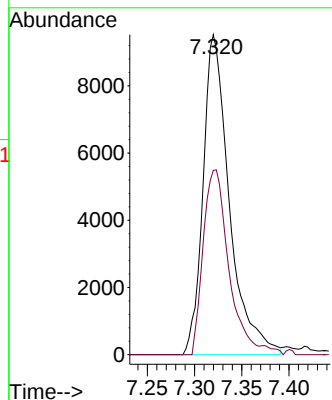
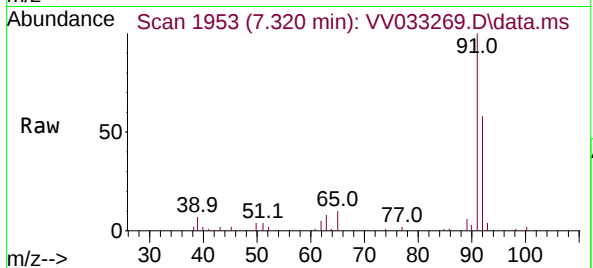
VSTD0.5216

Tgt Ion: 91 Resp: 18462

Ion Ratio Lower Upper

91 100

92 57.6 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 0.363 ug/L

RT: 7.590 min Scan# 2037

Delta R.T. 0.006 min

Lab File: VV033269.D

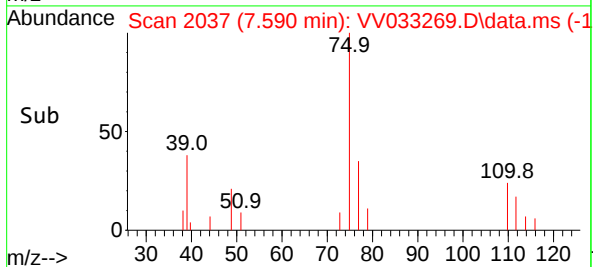
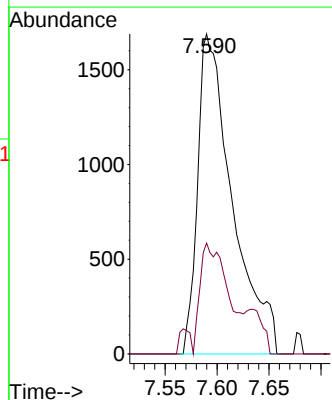
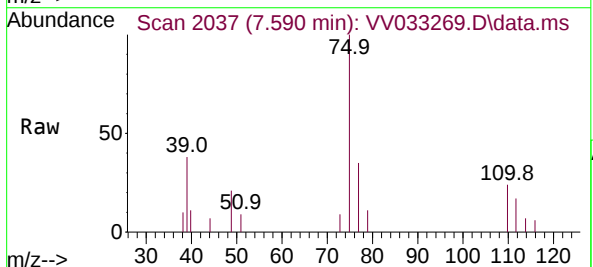
Acq: 13 Dec 2023 09:50

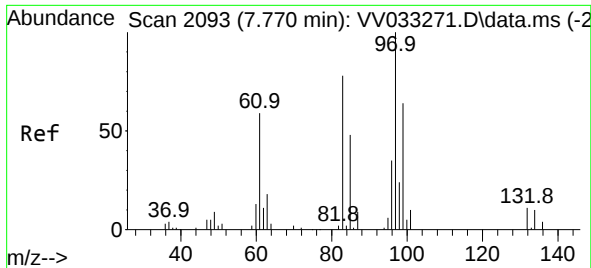
Tgt Ion: 75 Resp: 3920

Ion Ratio Lower Upper

75 100

77 34.6 21.7 40.3



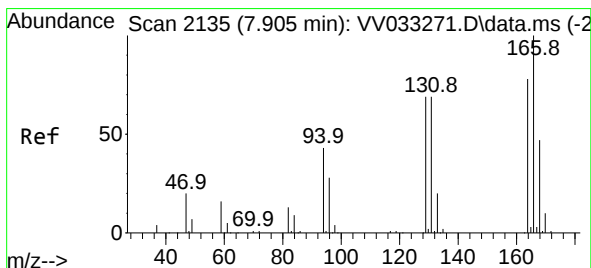
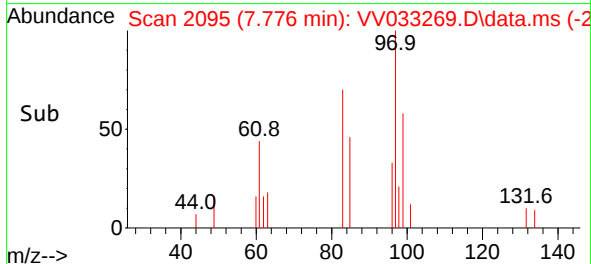
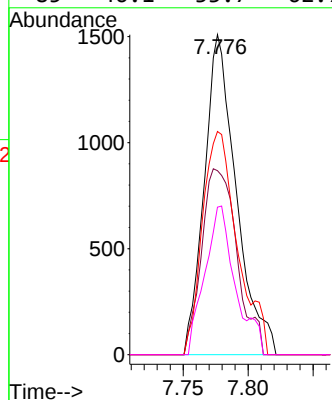
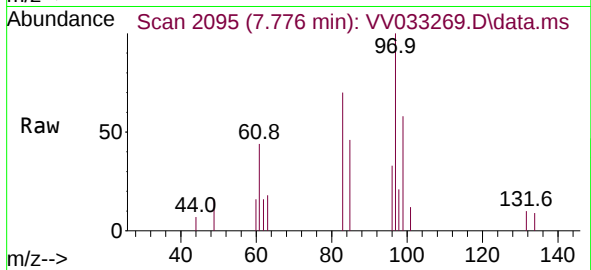


#45  
1,1,2-Trichloroethane  
Concen: 0.380 ug/L  
RT: 7.776 min Scan# 2093  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

Tgt Ion: 97 Resp: 2584

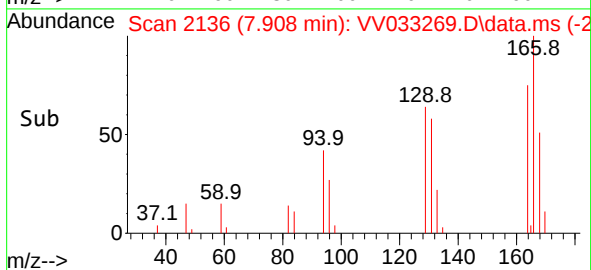
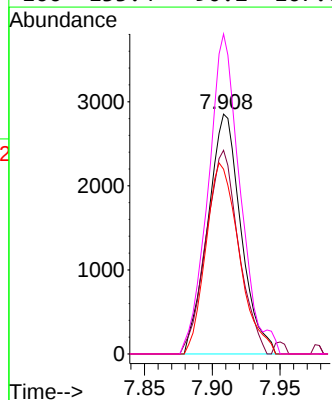
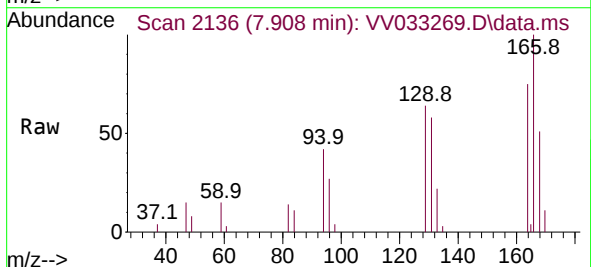
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 57.5  | 44.5  | 82.7  |
| 83  | 69.8  | 54.7  | 101.5 |
| 85  | 46.1  | 33.7  | 62.7  |

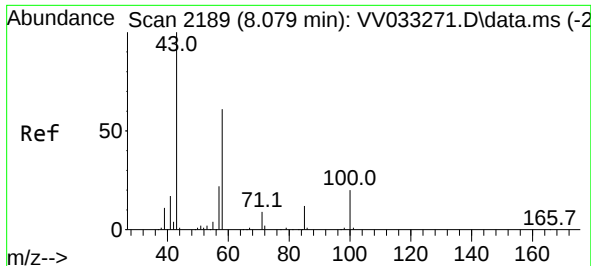


#47  
Tetrachloroethene  
Concen: 0.515 ug/L  
RT: 7.908 min Scan# 2136  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 164 Resp: 4854

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 84.9  | 62.6  | 116.3 |
| 131 | 77.0  | 62.6  | 116.3 |
| 166 | 133.4 | 90.2  | 167.6 |

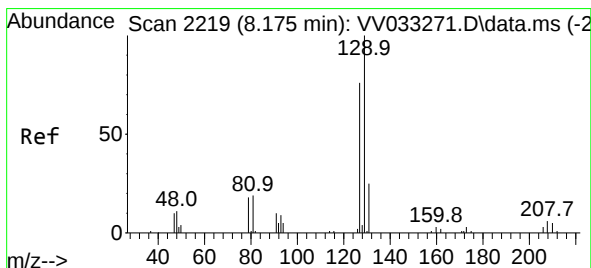
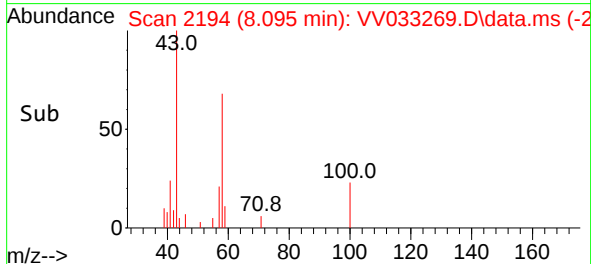
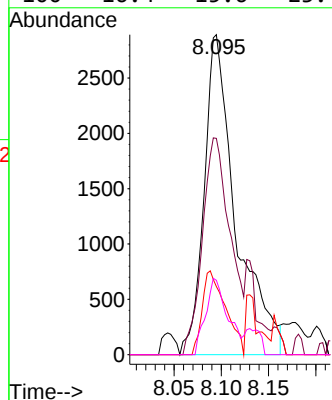
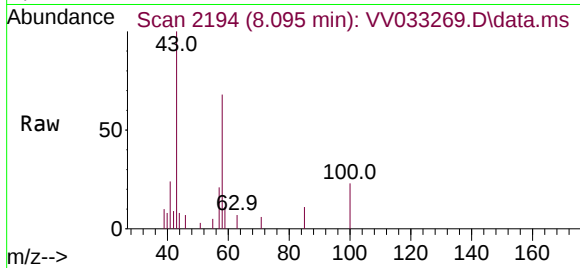




#48  
2-Hexanone  
Concen: 2.514 ug/L  
RT: 8.095 min Scan# 2189  
Delta R.T. 0.016 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

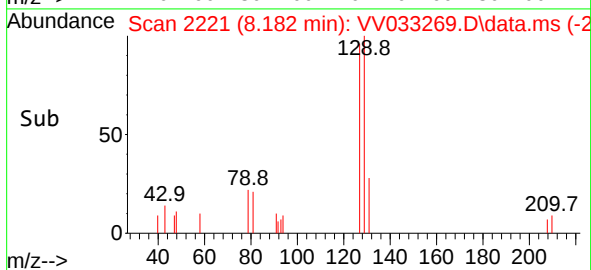
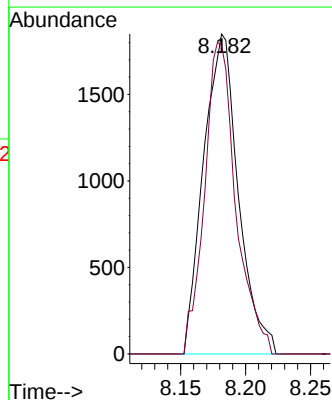
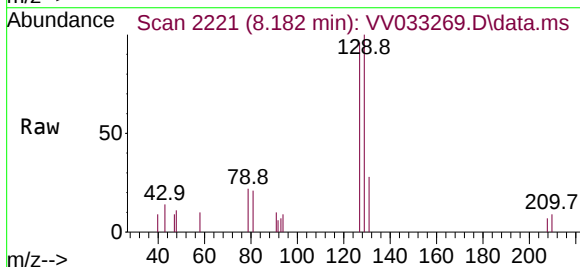
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

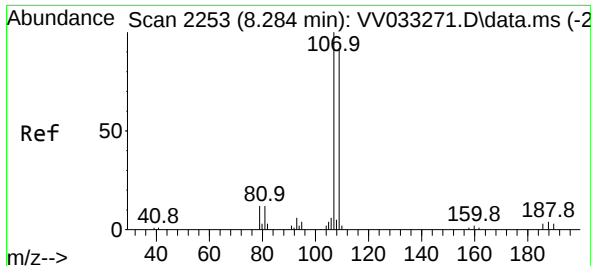
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 6778  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 59.4     | 48.6 72.8   |
| 57 19.2     | 18.1 27.1   |
| 100 16.4    | 15.6 23.4   |



#49  
Dibromochloromethane  
Concen: 0.409 ug/L  
RT: 8.182 min Scan# 2221  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 3454  |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 96.3  | 53.2  | 98.8  |





#50

1,2-Dibromoethane

Concen: 0.312 ug/L

RT: 8.294 min Scan# 21

Delta R.T. 0.010 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.5216

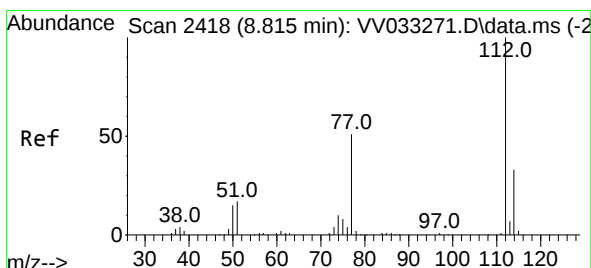
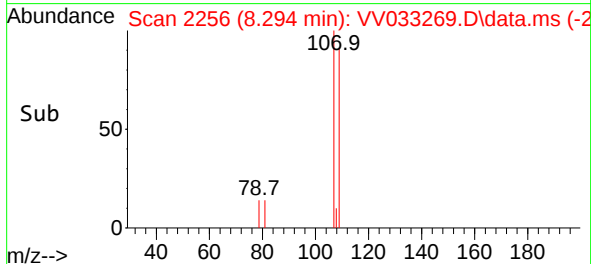
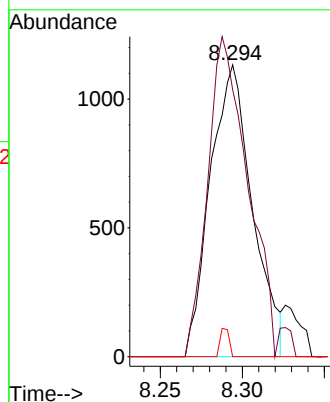
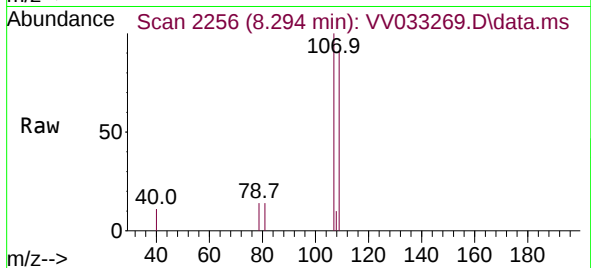
Tgt Ion:107 Resp: 2026

Ion Ratio Lower Upper

107 100

109 91.4 64.2 119.2

188 0.0 3.4 5.2#



#51

Chlorobenzene

Concen: 0.455 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

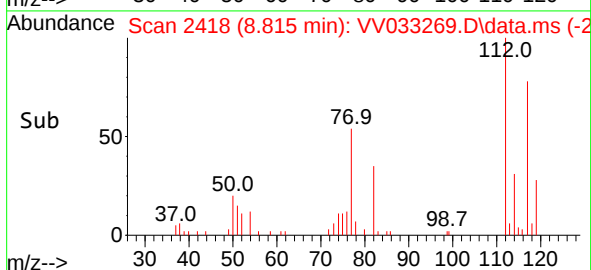
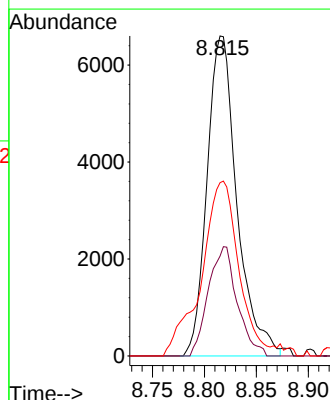
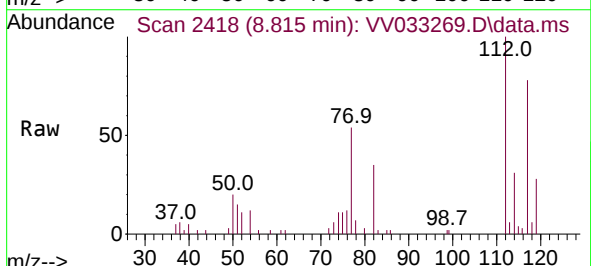
Tgt Ion:112 Resp: 13204

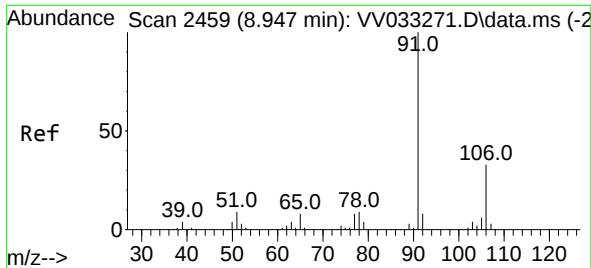
Ion Ratio Lower Upper

112 100

114 31.2 22.8 42.4

77 54.2 41.3 61.9

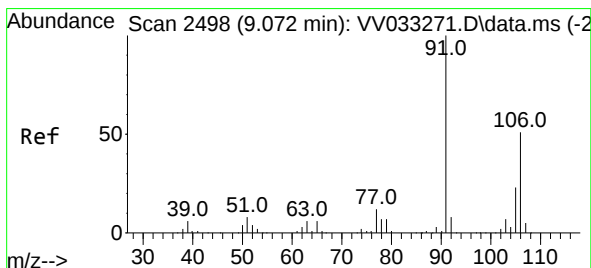
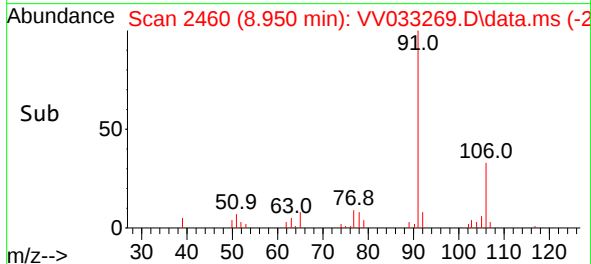
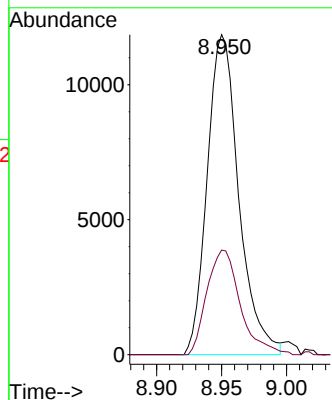
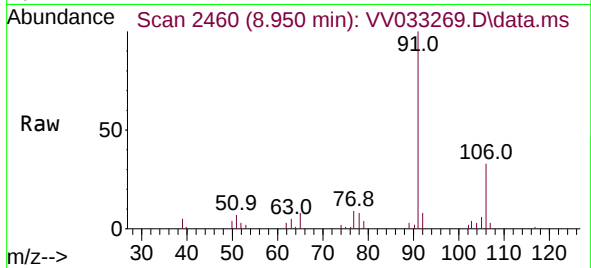




#52  
Ethylbenzene  
Concen: 0.441 ug/L  
RT: 8.950 min Scan# 2459  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

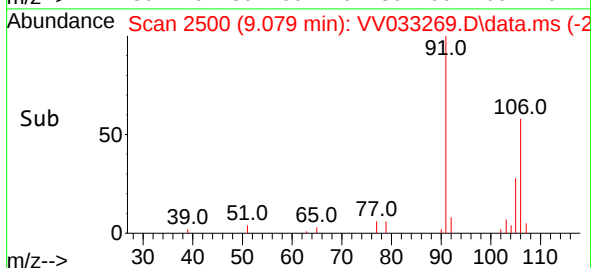
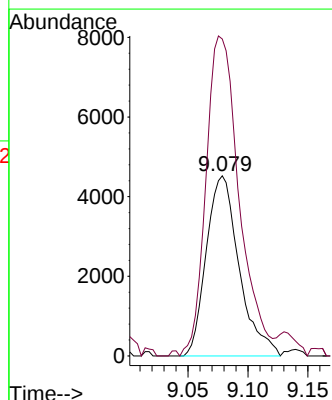
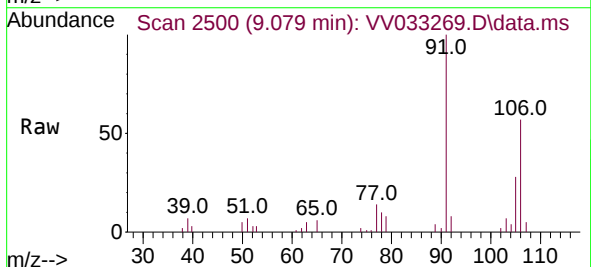
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

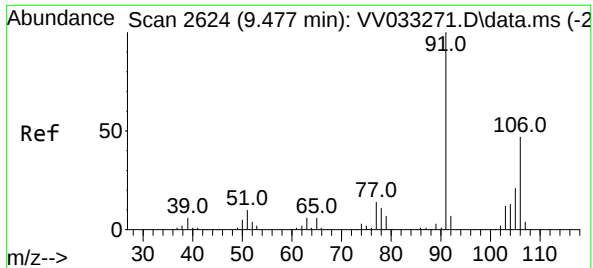
Tgt Ion: 91 Resp: 20048  
Ion Ratio Lower Upper  
91 100  
106 32.7 22.7 42.3



#53  
m,p-Xylene  
Concen: 0.480 ug/L  
RT: 9.079 min Scan# 2500  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 106 Resp: 8606  
Ion Ratio Lower Upper  
106 100  
91 175.9 136.8 254.0

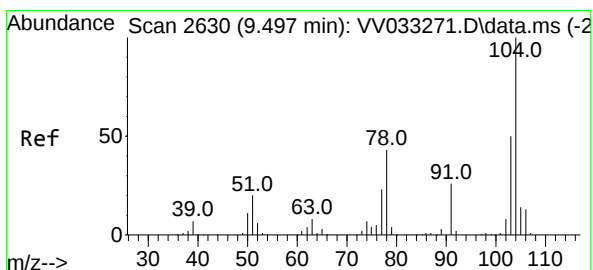
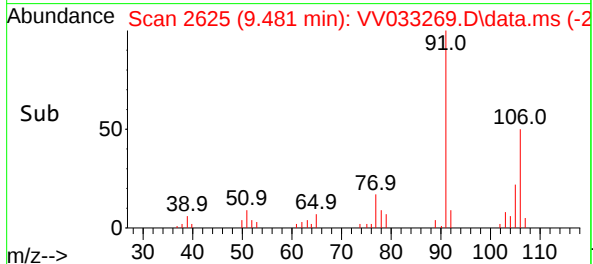
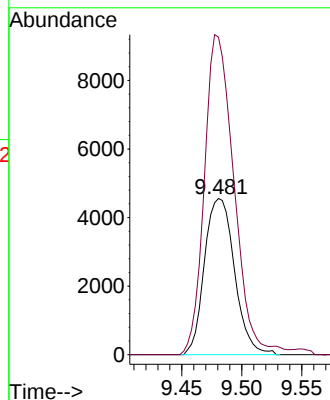
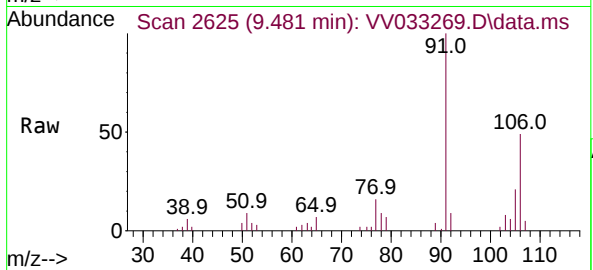




#54  
o-Xylene  
Concen: 0.470 ug/L  
RT: 9.481 min Scan# 2625  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

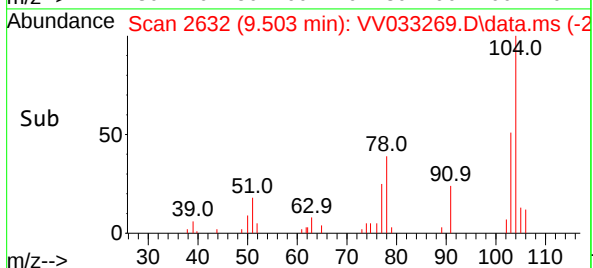
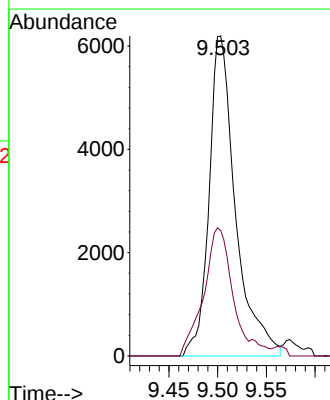
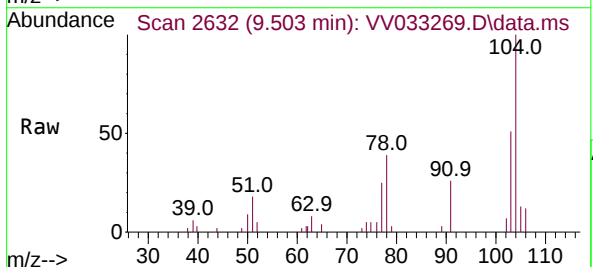
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

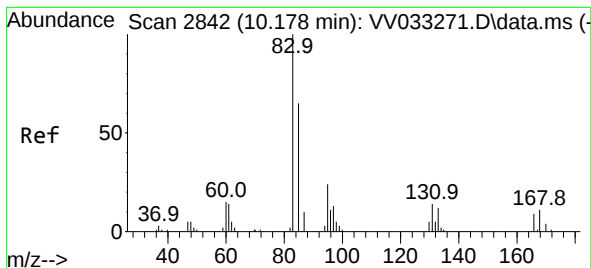
Tgt Ion:106 Resp: 7941  
Ion Ratio Lower Upper  
106 100  
91 203.5 149.9 278.5



#55  
Styrene  
Concen: 0.405 ug/L  
RT: 9.503 min Scan# 2632  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion:104 Resp: 11705  
Ion Ratio Lower Upper  
104 100  
78 39.2 29.9 55.5





#57

1,1,2,2-Tetrachloroethane

Concen: 0.339 ug/L

RT: 10.185 min Scan# 2844

Delta R.T. 0.006 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

VSTD0.5216

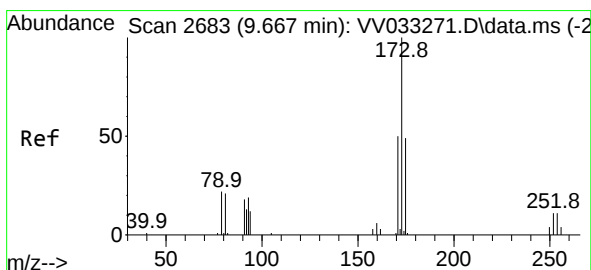
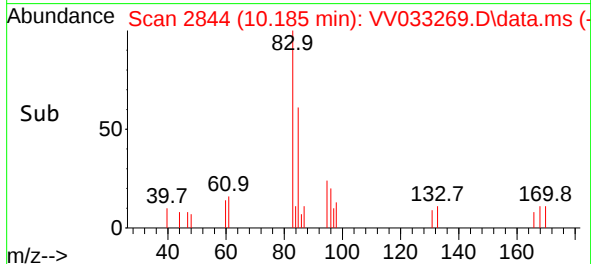
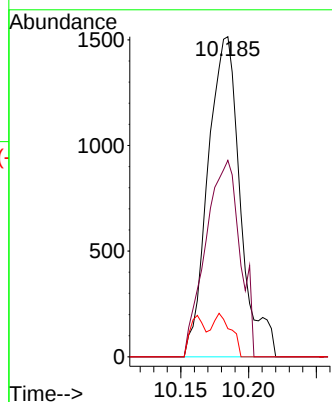
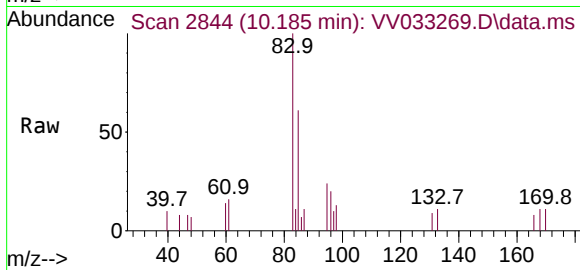
Tgt Ion: 83 Resp: 2515

Ion Ratio Lower Upper

83 100

85 61.4 45.4 84.4

131 8.8 11.5 17.3#



#59

Bromoform

Concen: 0.429 ug/L

RT: 9.670 min Scan# 2684

Delta R.T. 0.003 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

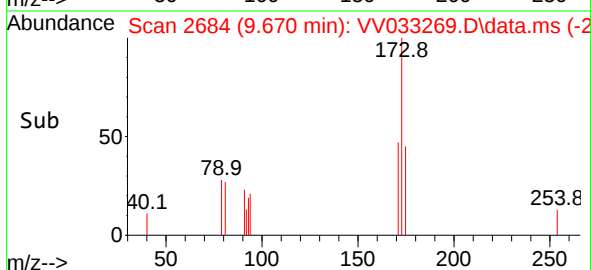
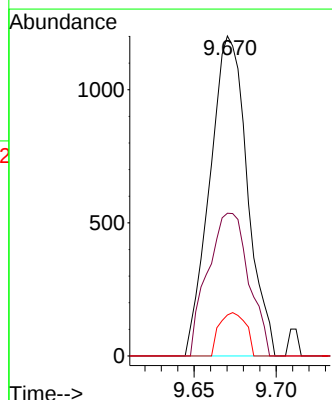
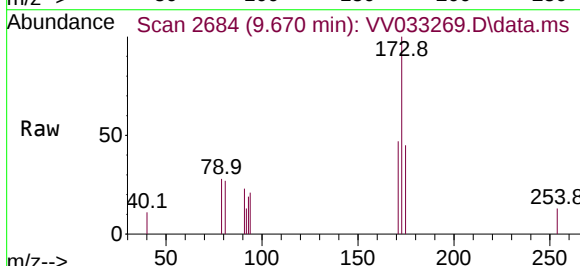
Tgt Ion: 173 Resp: 1904

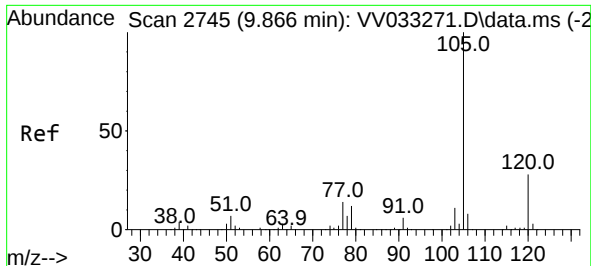
Ion Ratio Lower Upper

173 100

175 48.8 37.0 55.4

254 9.6 8.5 12.7

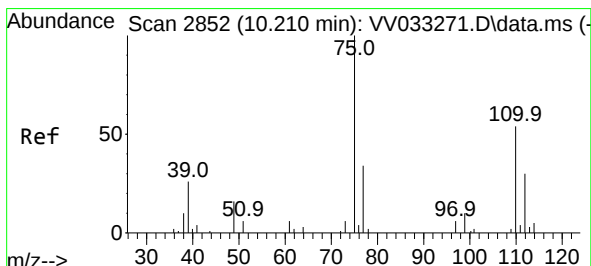
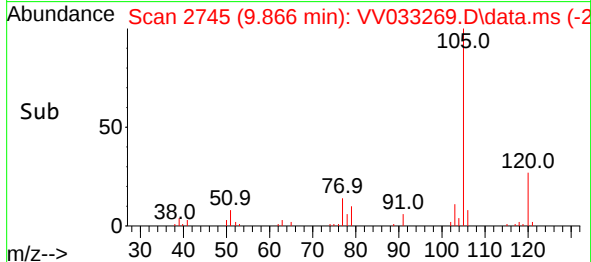
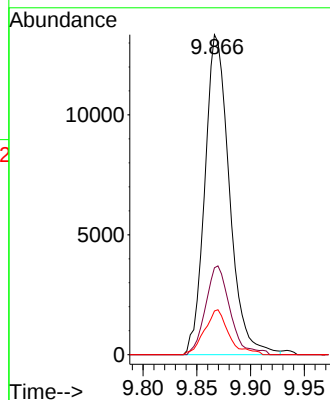
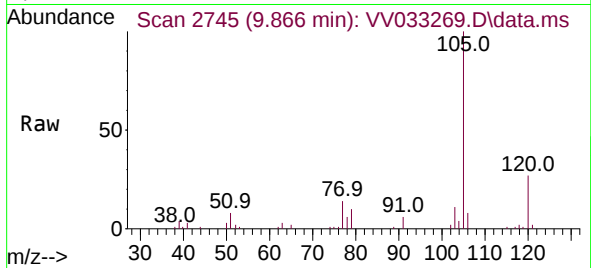




#60  
Isopropylbenzene  
Concen: 0.481 ug/L  
RT: 9.866 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

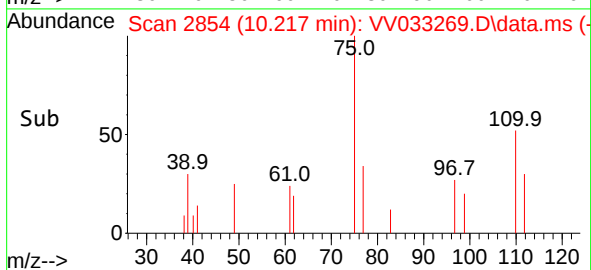
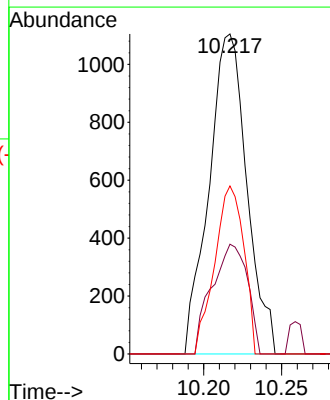
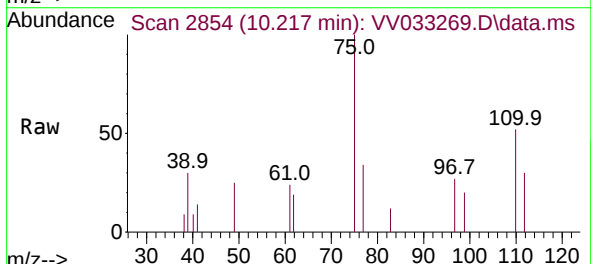
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

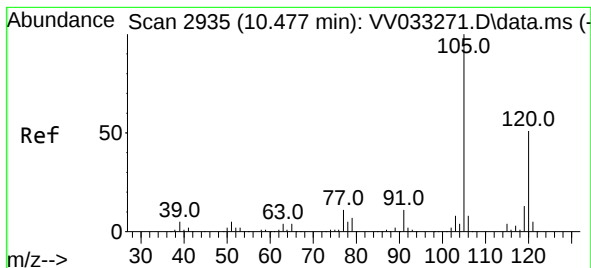
Tgt Ion:105 Resp: 21216  
Ion Ratio Lower Upper  
105 100  
120 27.7 22.2 33.4  
77 13.9 11.6 17.4



#61  
1,2,3-Trichloropropane  
Concen: 0.387 ug/L  
RT: 10.217 min Scan# 2854  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 75 Resp: 1871  
Ion Ratio Lower Upper  
75 100  
77 32.3 27.4 41.2  
110 40.4 39.4 59.2





#62

1,3,5-Trimethylbenzene

Concen: 0.484 ug/L

RT: 10.477 min Scan# 2935

Delta R.T. -0.000 min

Lab File: VV033269.D

Acq: 13 Dec 2023 09:50

Instrument :

MSVOA\_V

ClientSampleId :

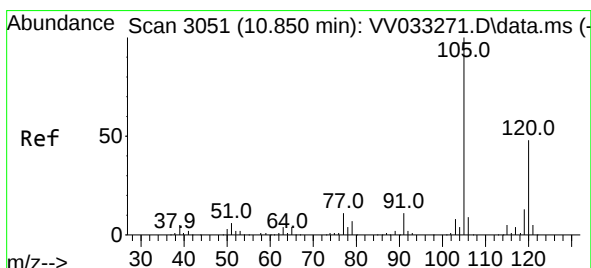
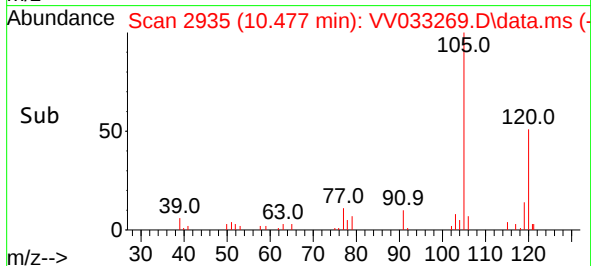
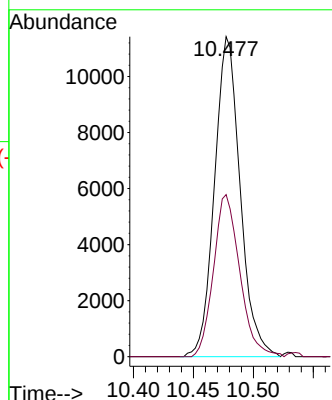
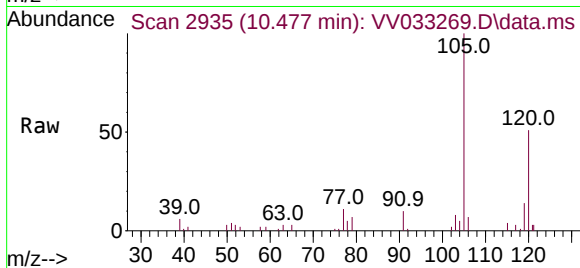
VSTD0.5216

Tgt Ion:105 Resp: 16982

Ion Ratio Lower Upper

105 100

120 51.8 41.7 62.5



#63

1,2,4-Trimethylbenzene

Concen: 0.436 ug/L

RT: 10.853 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VV033269.D

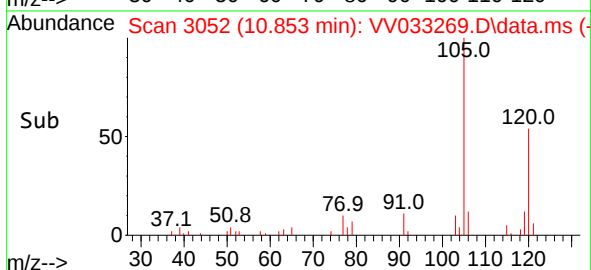
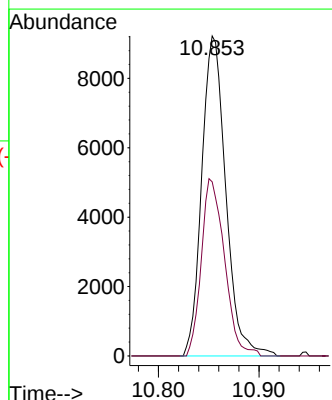
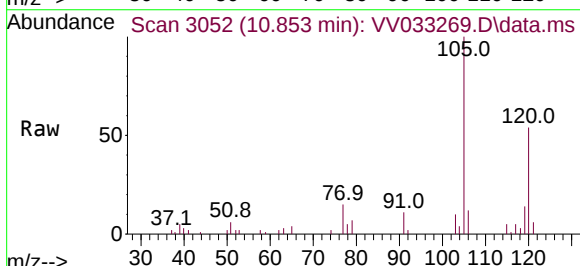
Acq: 13 Dec 2023 09:50

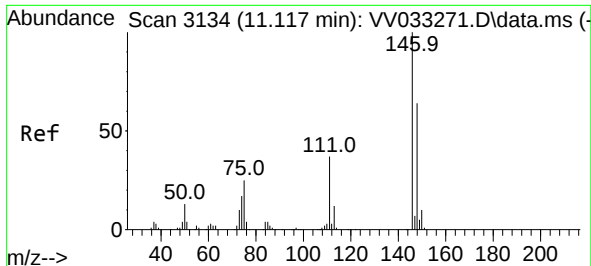
Tgt Ion:105 Resp: 15321

Ion Ratio Lower Upper

105 100

120 53.4 38.1 57.1

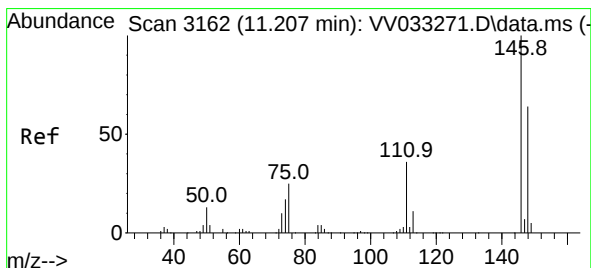
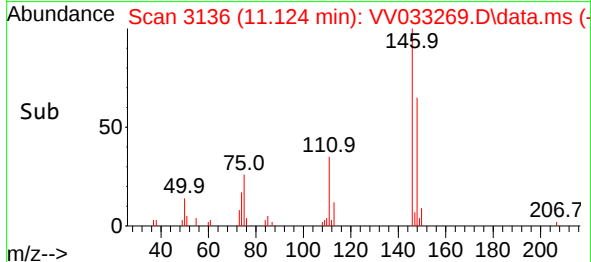
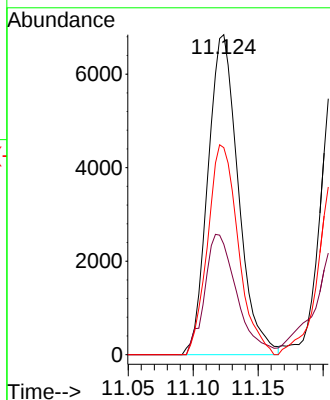
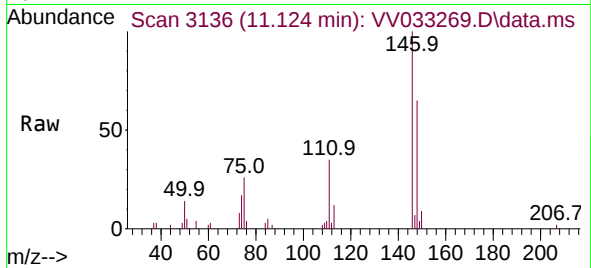




#64  
1,3-Dichlorobenzene  
Concen: 0.476 ug/L  
RT: 11.124 min Scan# 3134  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

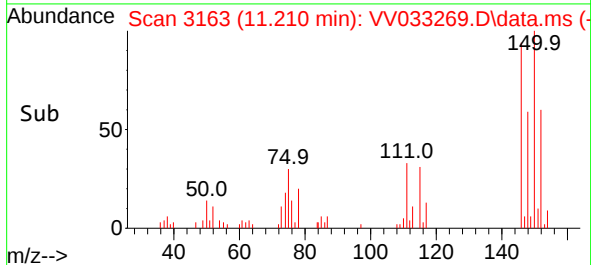
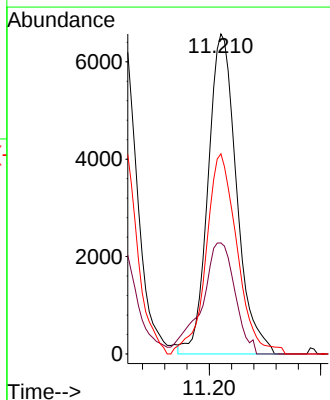
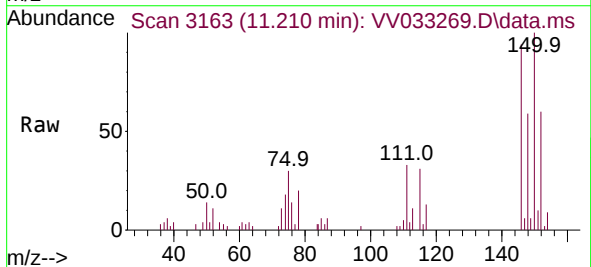
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

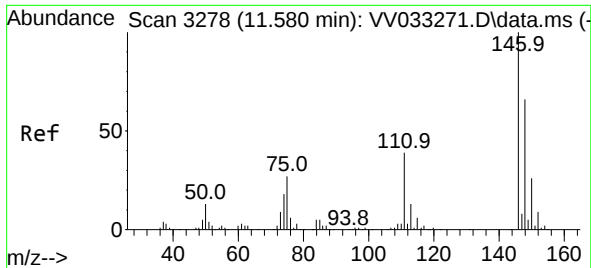
Tgt Ion:146 Resp: 11123  
Ion Ratio Lower Upper  
146 100  
111 34.5 26.0 48.2  
148 64.7 44.5 82.7



#65  
1,4-Dichlorobenzene  
Concen: 0.492 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion:146 Resp: 11691  
Ion Ratio Lower Upper  
146 100  
111 34.7 25.6 47.4  
148 62.6 44.7 82.9

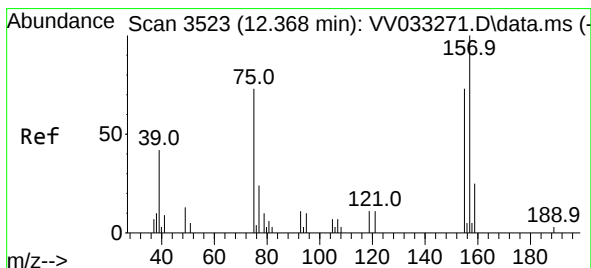
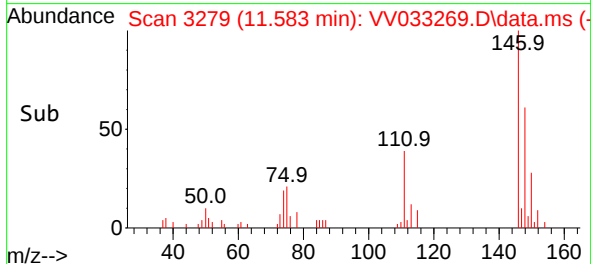
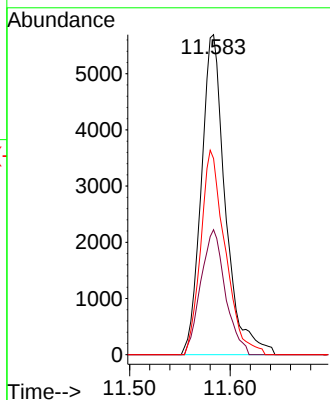
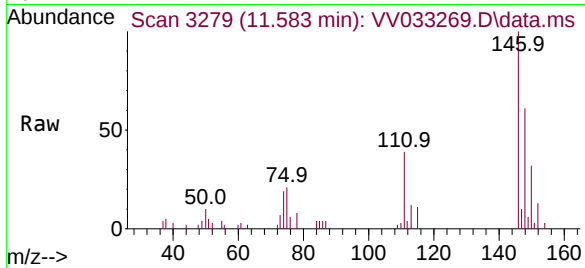




#67  
1,2-Dichlorobenzene  
Concen: 0.460 ug/L  
RT: 11.583 min Scan# 311  
Delta R.T. 0.003 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

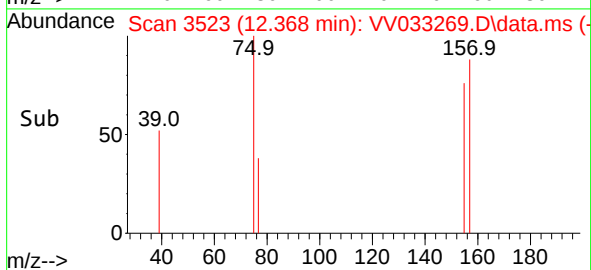
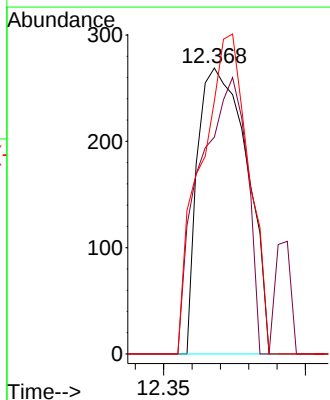
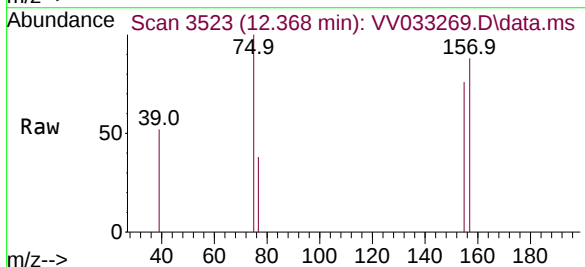
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

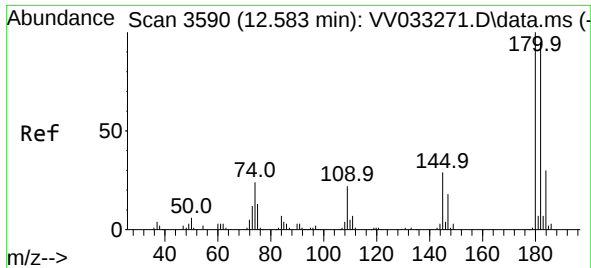
Tgt Ion:146 Resp: 9470  
Ion Ratio Lower Upper  
146 100  
111 39.1 31.0 46.4  
148 61.3 52.6 79.0



#68  
1,2-Dibromo-3-chloropropane  
Concen: 0.273 ug/L  
RT: 12.368 min Scan# 3523  
Delta R.T. -0.000 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Tgt Ion: 75 Resp: 325  
Ion Ratio Lower Upper  
75 100  
155 75.8 79.8 119.8#  
157 88.5 110.2 165.2#

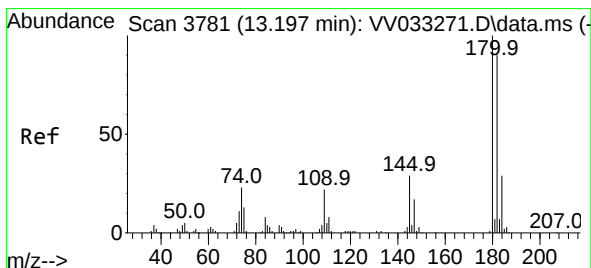
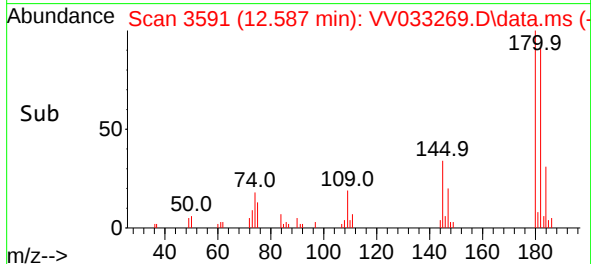
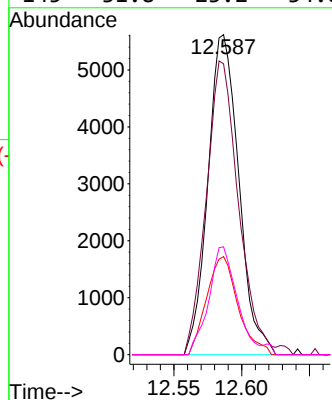
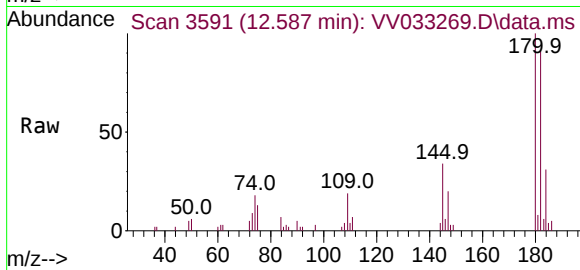




#69  
 1,3,5-Trichlorobenzene  
 Concen: 0.502 ug/L  
 RT: 12.587 min Scan# 3590  
 Delta R.T. 0.003 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

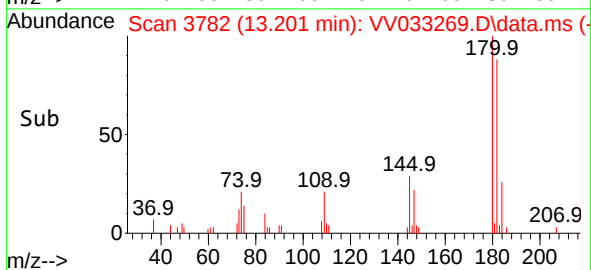
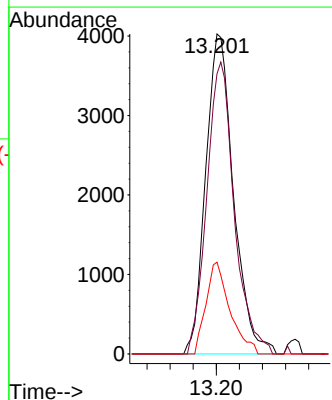
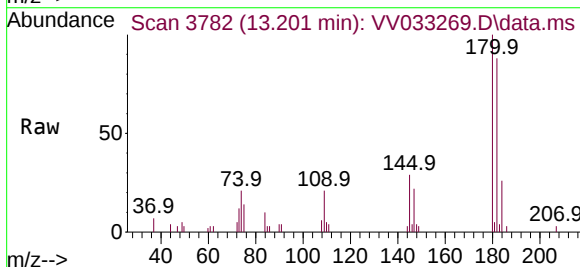
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD0.5216

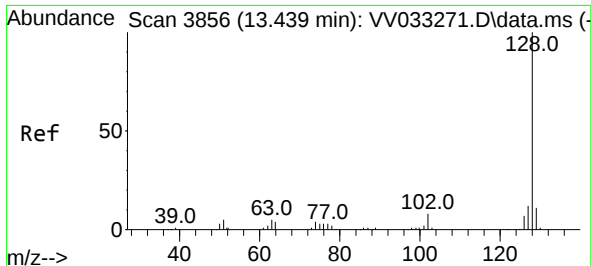
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 8890        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 95.5  | 76.1 114.1  |
| 184         | 31.2  | 24.5 36.7   |
| 145         | 31.8  | 23.2 34.8   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 0.471 ug/L  
 RT: 13.201 min Scan# 3782  
 Delta R.T. 0.003 min  
 Lab File: VV033269.D  
 Acq: 13 Dec 2023 09:50

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 6728        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 90.0  | 74.2 111.4  |
| 145         | 24.6  | 22.6 34.0   |

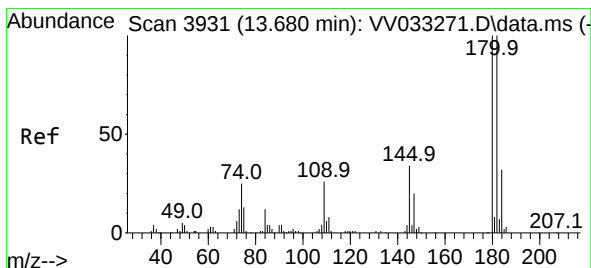
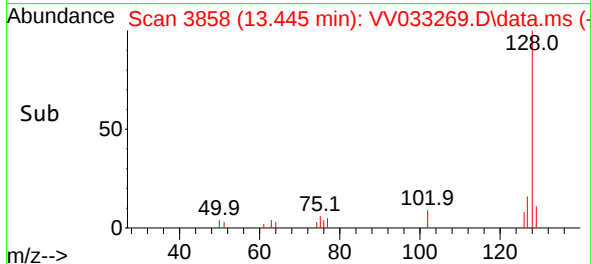
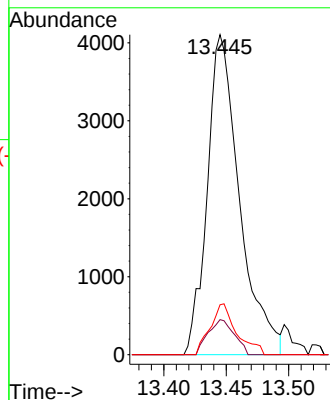
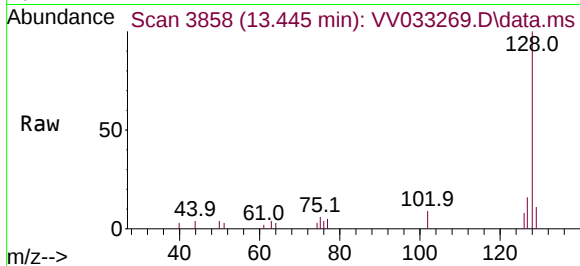




#71  
Naphthalene  
Concen: 0.390 ug/L  
RT: 13.445 min Scan# 3856  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD0.5216

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7400  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 8.9   | 8.8   | 13.2  |
| 127      | 12.9  | 10.1  | 15.1  |



#72  
1,2,3-Trichlorobenzene  
Concen: 0.413 ug/L  
RT: 13.686 min Scan# 3933  
Delta R.T. 0.006 min  
Lab File: VV033269.D  
Acq: 13 Dec 2023 09:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5004  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.0  | 78.8  | 118.2 |
| 145      | 28.2  | 26.6  | 40.0  |

