

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121824\  
 Data File : VL041814.D  
 Acq On : 19 Dec 2024 02:26  
 Operator : SY/MD  
 Sample : P5295-01DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

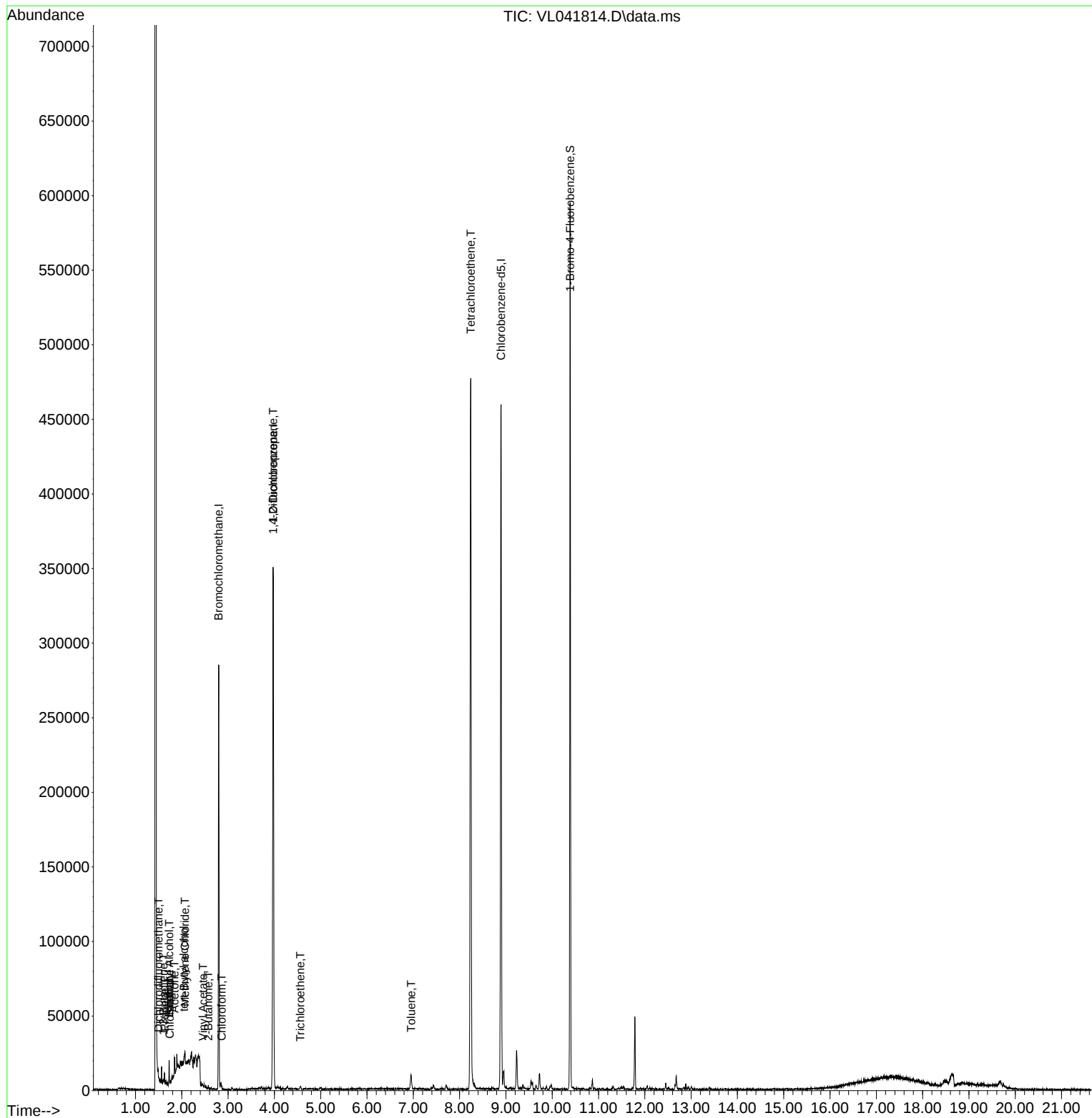
Quant Time: Dec 19 08:03:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121624AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Dec 19 07:32:09 2024  
 Response via : Initial Calibration

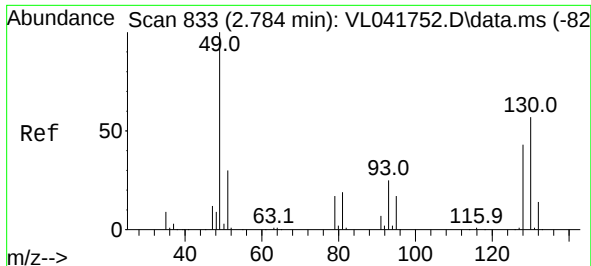
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.797  | 49    | 76111    | 10.000   | ppbv   | 0.01     |
| 33) 1,4-Difluorobenzene     | 3.975  | 114   | 181587   | 10.000   | ppbv   | 0.02     |
| 55) Chlorobenzene-d5        | 8.895  | 117   | 165578   | 10.000   | ppbv   | 0.02     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95    | 133430   | 9.670    | ppbv   | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 96.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 712      | 0.053    | ppbv # | 78       |
| 7) Chloroethane             | 1.738  | 64    | 64       | 0.031    | ppbv # | 40       |
| 9) Propene                  | 1.631  | 41    | 948      | 0.176    | ppbv   | 91       |
| 13) Ethanol                 | 1.729  | 45    | 5114     | 11.480   | ppbv # | 34       |
| 15) Acetone                 | 1.842  | 43    | 5144     | 0.347    | ppbv   | 97       |
| 16) 1,3-Butadiene           | 1.606  | 39    | 316      | 0.054    | ppbv # | 65       |
| 17) tert-Butyl alcohol      | 2.049  | 59    | 859      | 0.058    | ppbv # | 63       |
| 19) Isopropyl Alcohol       | 1.729  | 45    | 5114     | 0.576    | ppbv # | 44       |
| 20) Methylene Chloride      | 2.068  | 84    | 989      | 0.234    | ppbv # | 89       |
| 23) Vinyl Acetate           | 2.457  | 43    | 873      | 0.127    | ppbv # | 89       |
| 29) Chloroform              | 2.861  | 83    | 590      | 0.037    | ppbv   | 88       |
| 34) 2-Butanone              | 2.573  | 43    | 1303     | 0.089    | ppbv   | 96       |
| 38) Trichloroethene         | 4.561  | 130   | 287      | 0.036    | ppbv # | 45       |
| 39) 1,2-Dichloropropane     | 3.972  | 63    | 50235    | 7.395    | ppbv # | 18       |
| 52) Tetrachloroethene       | 8.241  | 164   | 73433    | 10.503   | ppbv   | 96       |
| 53) Toluene                 | 6.956  | 91    | 2450     | 0.115    | ppbv # | 1        |
| -----                       |        |       |          |          |        |          |

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

ClientSampleId :

Response via : Initial Calibration

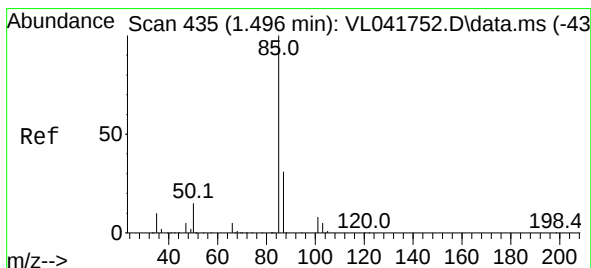
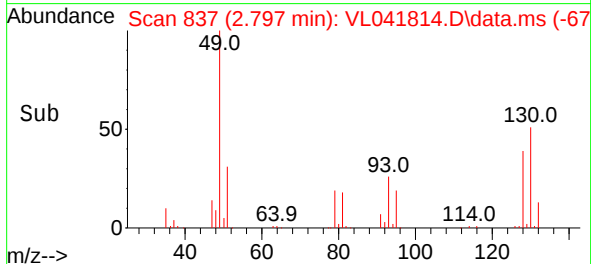
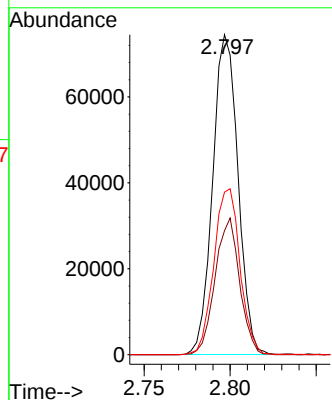
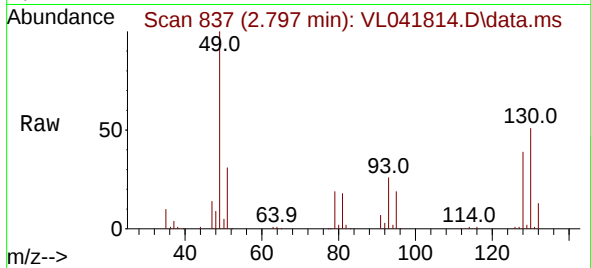




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.797 min Scan# 833  
 Delta R.T. 0.013 min  
 Lab File: VL041814.D  
 Acq: 19 Dec 2024 02:26

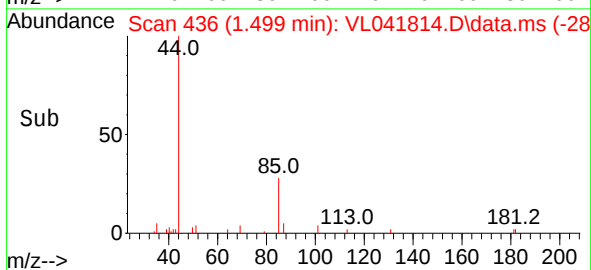
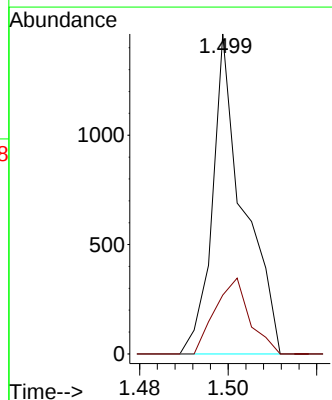
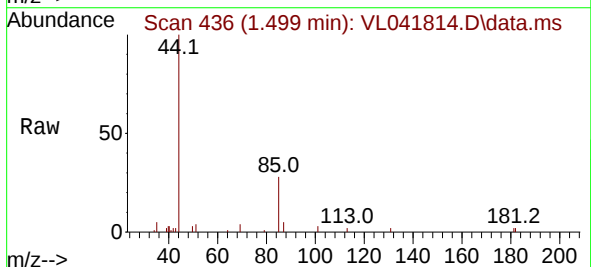
Instrument :  
 MSVOA\_L  
 ClientSampleId :

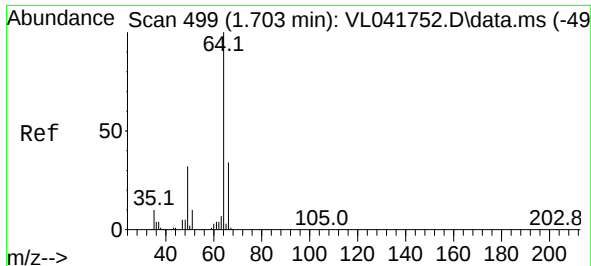
Tgt Ion: 49 Resp: 76111  
 Ion Ratio Lower Upper  
 49 100  
 128 41.5 21.6 64.6  
 130 53.8 28.3 85.0



#2  
 Dichlorodifluoromethane  
 Concen: 0.053 ppbv  
 RT: 1.499 min Scan# 436  
 Delta R.T. 0.003 min  
 Lab File: VL041814.D  
 Acq: 19 Dec 2024 02:26

Tgt Ion: 85 Resp: 712  
 Ion Ratio Lower Upper  
 85 100  
 87 18.4 24.5 36.7#

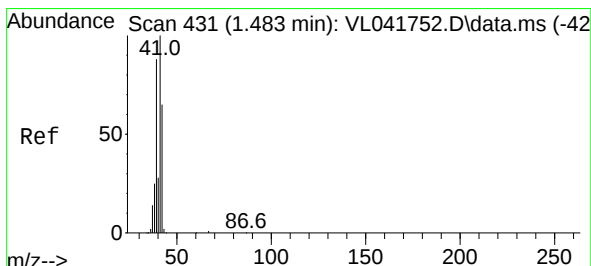
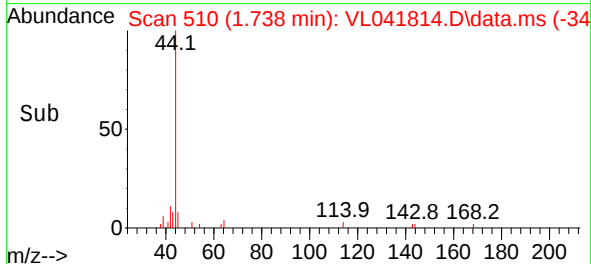
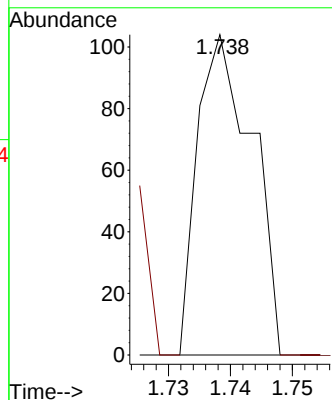
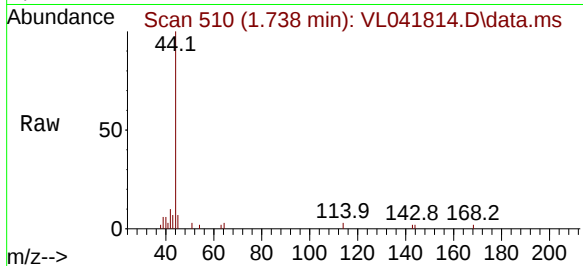




#7  
Chloroethane  
Concen: 0.031 ppbv  
RT: 1.738 min Scan# 51  
Delta R.T. 0.035 min  
Lab File: VL041814.D  
Acq: 19 Dec 2024 02:26

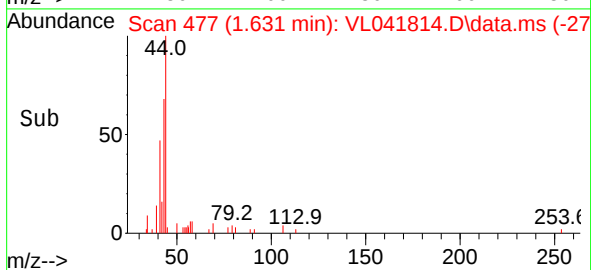
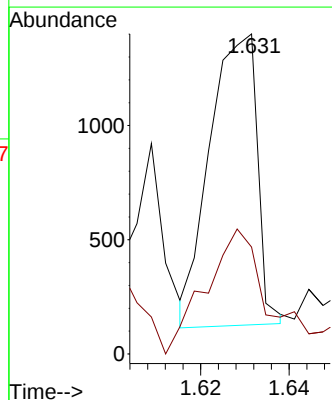
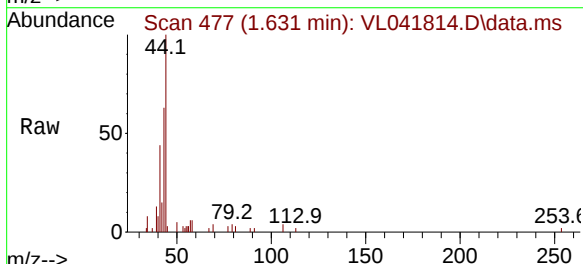
Instrument :  
MSVOA\_L  
ClientSampleId :

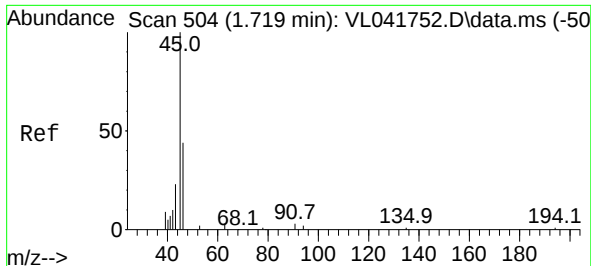
Tgt Ion: 64 Resp: 64  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.5 41.3#



#9  
Propene  
Concen: 0.176 ppbv  
RT: 1.631 min Scan# 477  
Delta R.T. 0.149 min  
Lab File: VL041814.D  
Acq: 19 Dec 2024 02:26

Tgt Ion: 41 Resp: 948  
Ion Ratio Lower Upper  
41 100  
42 72.8 52.4 78.6





#13

Ethanol

Concen: 11.480 ppbv

RT: 1.729 min Scan# 504

Delta R.T. 0.009 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

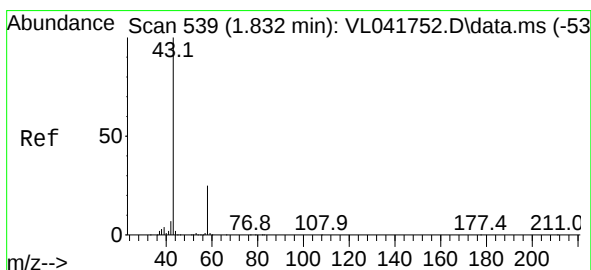
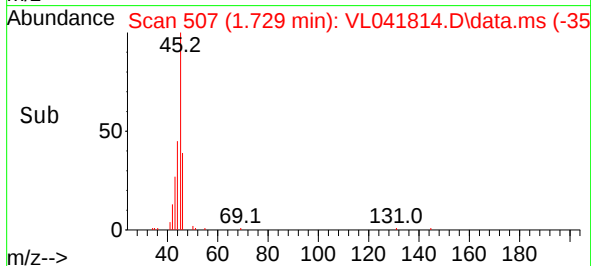
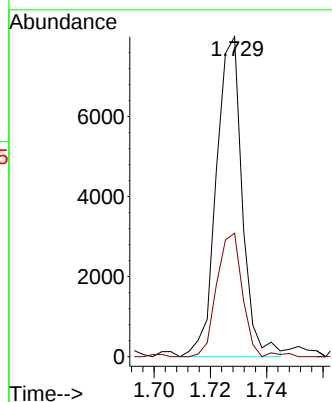
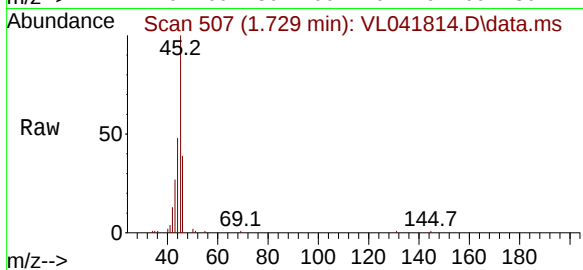
ClientSampleId :

Tgt Ion: 45 Resp: 5114

Ion Ratio Lower Upper

45 100

46 0.0 16.4 65.8#



#15

Acetone

Concen: 0.347 ppbv

RT: 1.842 min Scan# 542

Delta R.T. 0.009 min

Lab File: VL041814.D

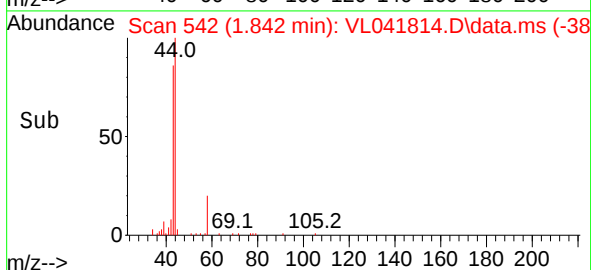
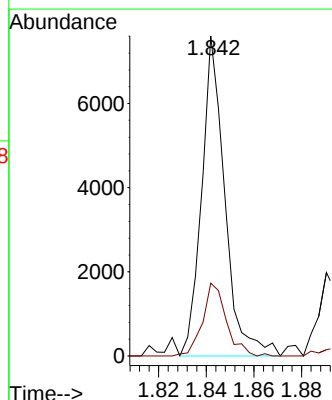
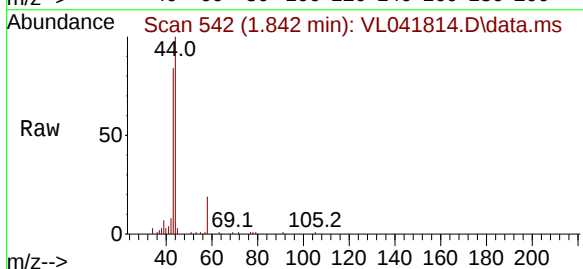
Acq: 19 Dec 2024 02:26

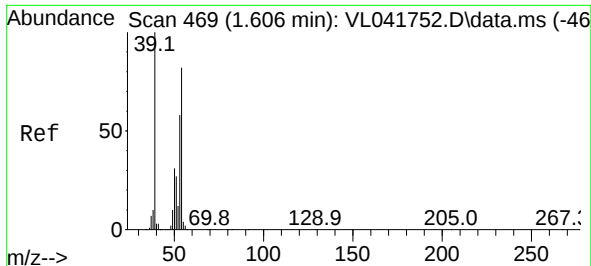
Tgt Ion: 43 Resp: 5144

Ion Ratio Lower Upper

43 100

58 23.3 19.7 29.5





#16

1,3-Butadiene

Concen: 0.054 ppbv

RT: 1.606 min Scan# 4

Delta R.T. -0.000 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

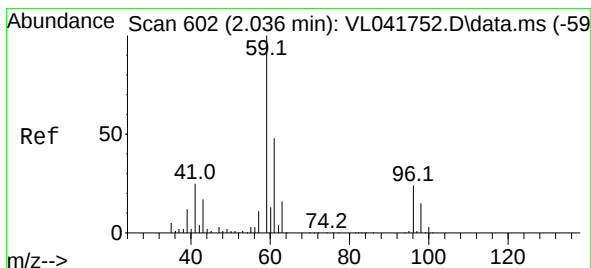
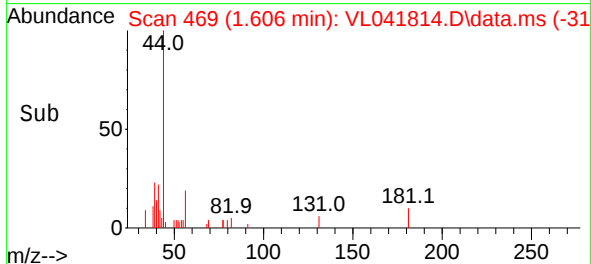
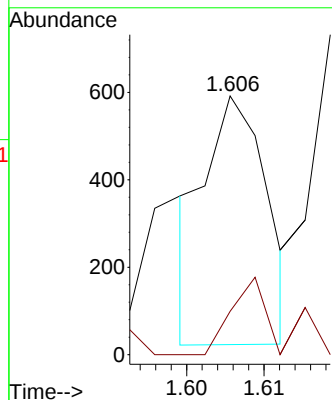
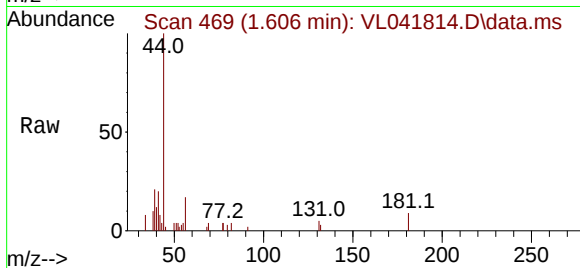
ClientSampleId :

Tgt Ion: 39 Resp: 316

Ion Ratio Lower Upper

39 100

54 43.7 58.4 87.6#



#17

tert-Butyl alcohol

Concen: 0.058 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL041814.D

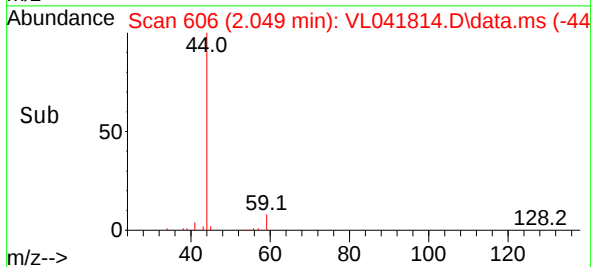
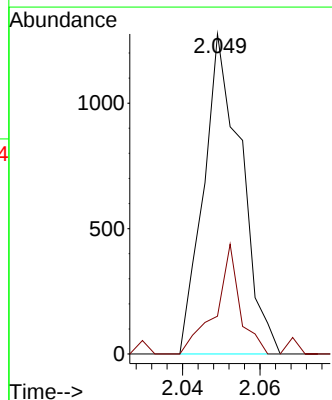
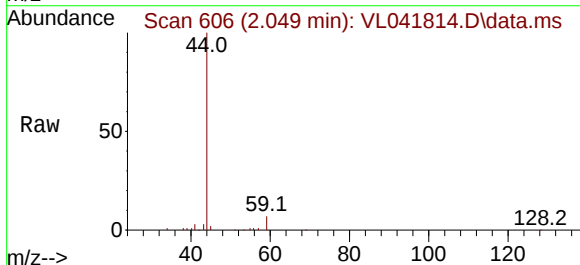
Acq: 19 Dec 2024 02:26

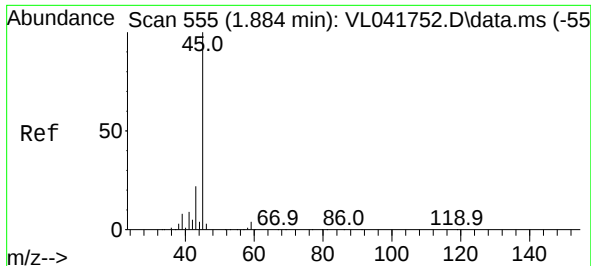
Tgt Ion: 59 Resp: 859

Ion Ratio Lower Upper

59 100

57 24.9 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.576 ppbv

RT: 1.729 min Scan# 511

Delta R.T. -0.156 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

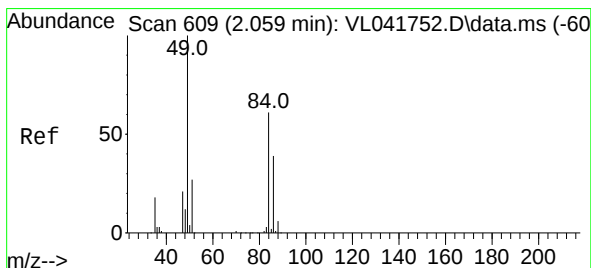
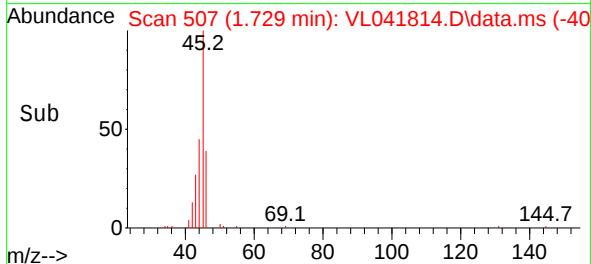
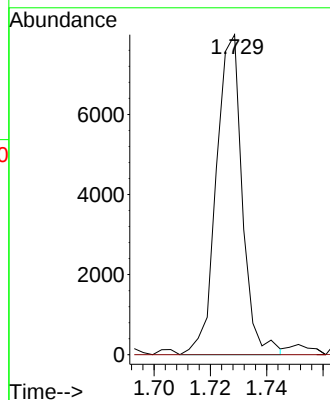
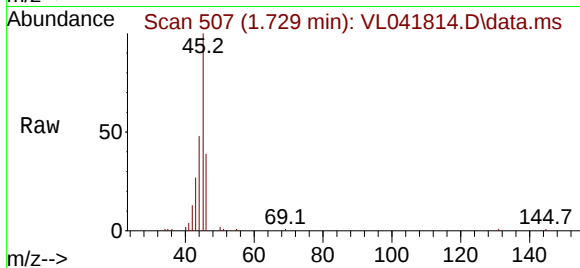
ClientSampleId :

Tgt Ion: 45 Resp: 5114

Ion Ratio Lower Upper

45 100

58 6.2 33.3 49.9#



#20

Methylene Chloride

Concen: 0.234 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Tgt Ion: 84 Resp: 989

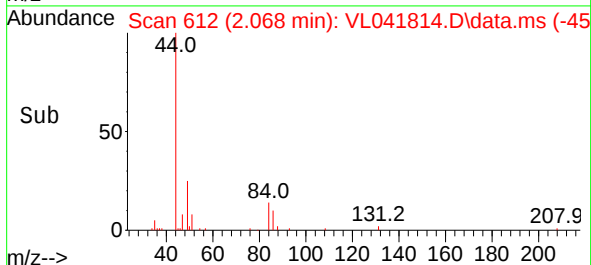
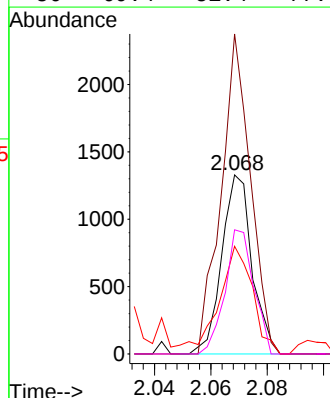
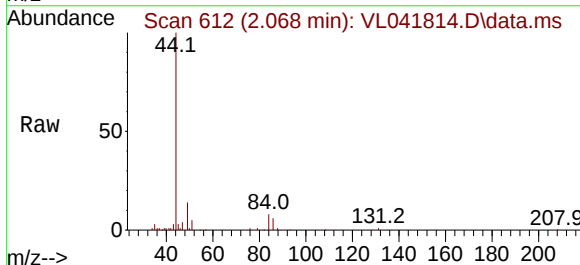
Ion Ratio Lower Upper

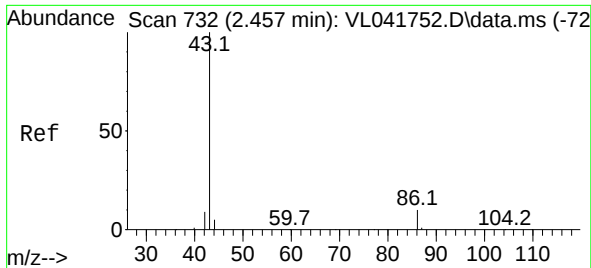
84 100

49 178.7 132.6 198.8

51 60.1 37.6 56.4#

86 69.4 51.4 77.0

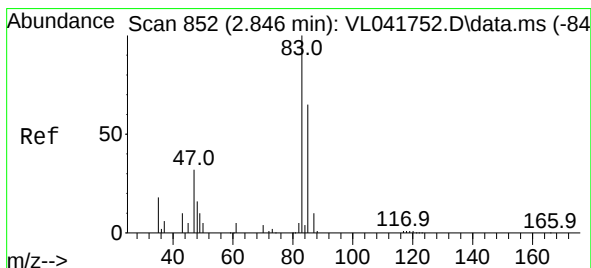
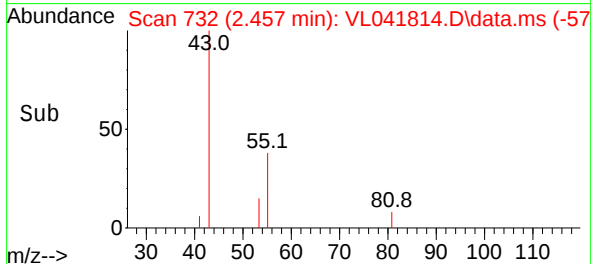
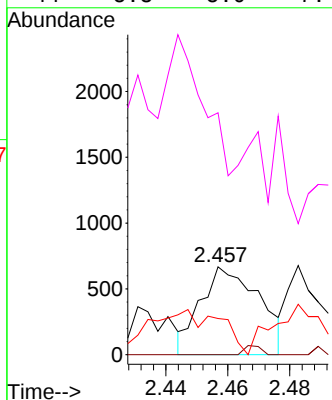
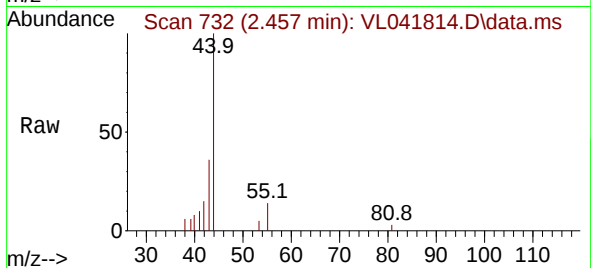




#23  
 Vinyl Acetate  
 Concen: 0.127 ppbv  
 RT: 2.457 min Scan# 74  
 Delta R.T. -0.000 min  
 Lab File: VL041814.D  
 Acq: 19 Dec 2024 02:26

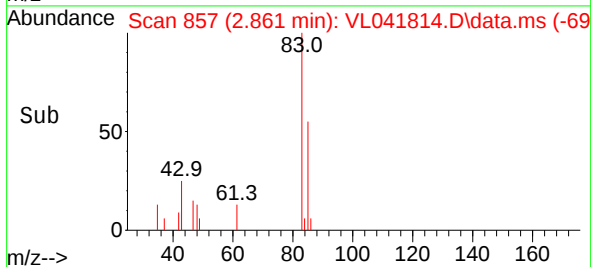
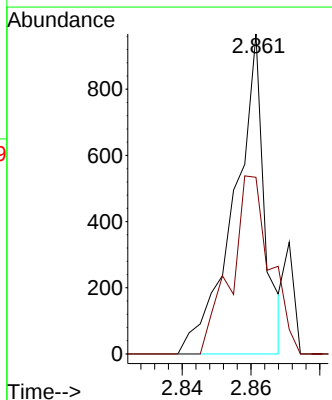
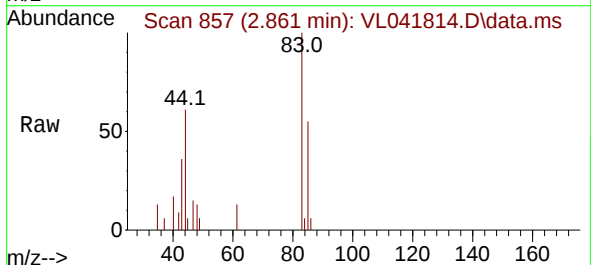
Instrument :  
 MSVOA\_L  
 ClientSampleId :

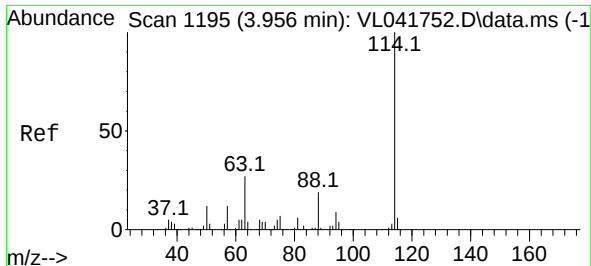
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|-----|---------|-------|-------|
| Tgt | Ion: 43 | Resp: | 873   |
| Ion | Ratio   | Lower | Upper |
| 43  | 100     |       |       |
| 86  | 0.0     | 6.6   | 10.0# |
| 42  | 7.7     | 8.2   | 12.2# |
| 44  | 5.3     | 5.0   | 7.4   |



#29  
 Chloroform  
 Concen: 0.037 ppbv  
 RT: 2.861 min Scan# 857  
 Delta R.T. 0.016 min  
 Lab File: VL041814.D  
 Acq: 19 Dec 2024 02:26

|             |       |       |  |
|-------------|-------|-------|--|
| Tgt Ion: 83 | Resp: | 590   |  |
| Ion Ratio   | Lower | Upper |  |
| 83 100      |       |       |  |
| 85 55.2     | 51.8  | 77.6  |  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1195

Delta R.T. 0.019 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

ClientSampleId :

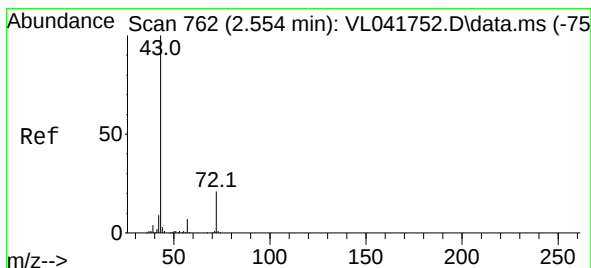
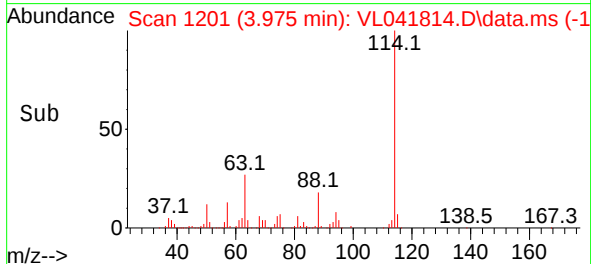
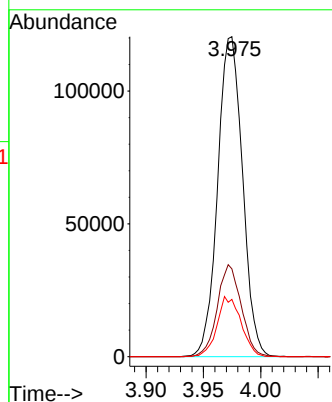
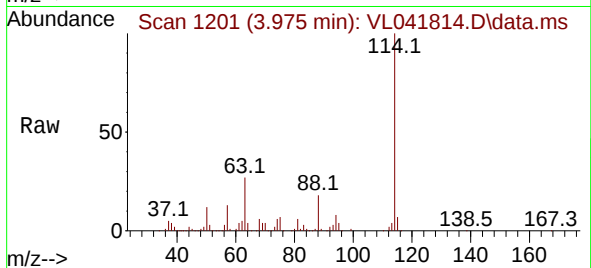
Tgt Ion:114 Resp: 181587

Ion Ratio Lower Upper

114 100

63 27.7 21.8 32.8

88 18.2 14.8 22.2



#34

2-Butanone

Concen: 0.089 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.019 min

Lab File: VL041814.D

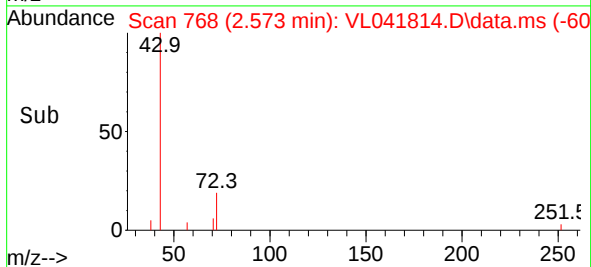
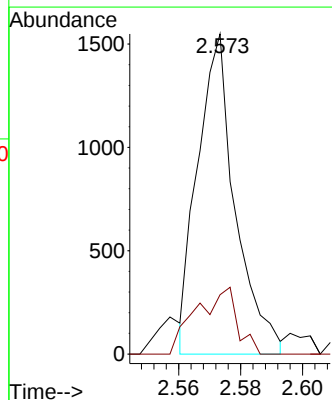
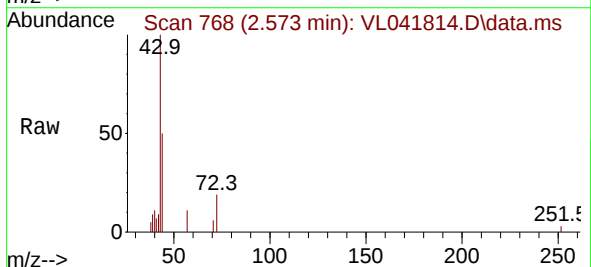
Acq: 19 Dec 2024 02:26

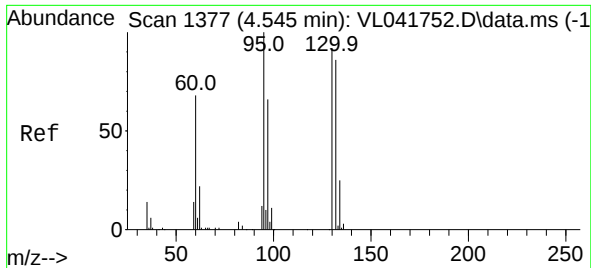
Tgt Ion: 43 Resp: 1303

Ion Ratio Lower Upper

43 100

72 22.8 16.8 25.2





#38

Trichloroethene

Concen: 0.036 ppbv

RT: 4.561 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion:130 Resp: 287

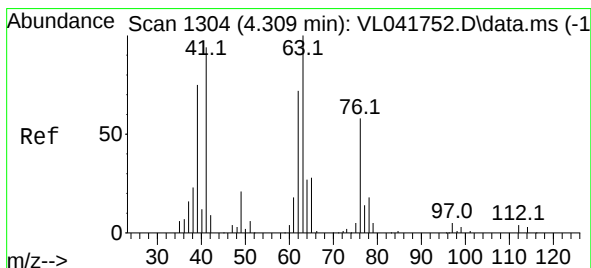
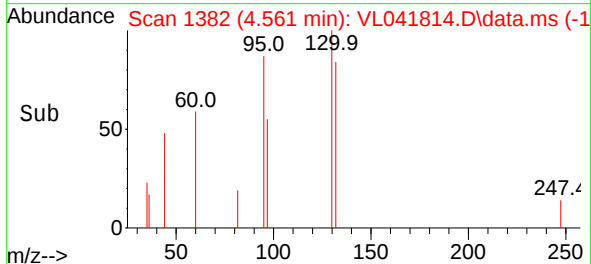
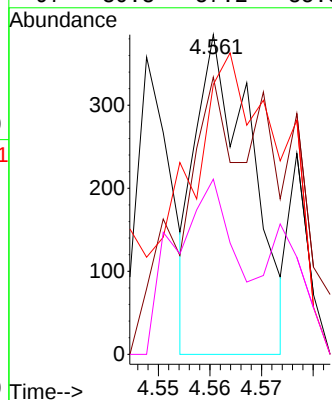
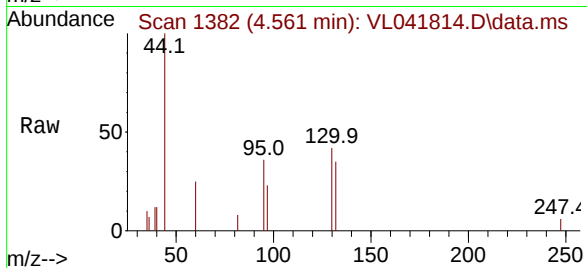
Ion Ratio Lower Upper

130 100

95 54.8 87.0 130.6#

132 32.2 75.0 112.6#

97 30.8 57.2 85.8#



#39

1,2-Dichloropropane

Concen: 7.395 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. -0.337 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

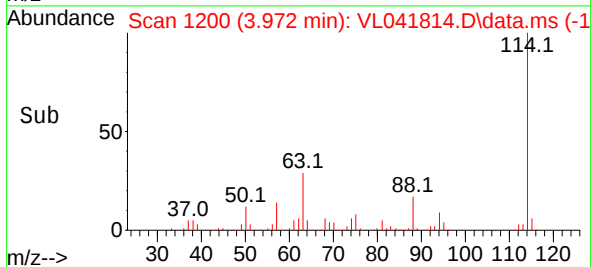
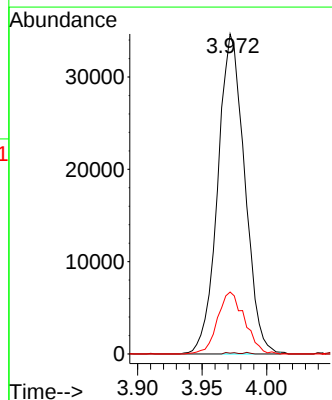
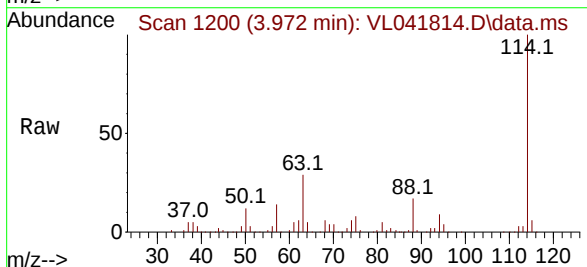
Tgt Ion: 63 Resp: 50235

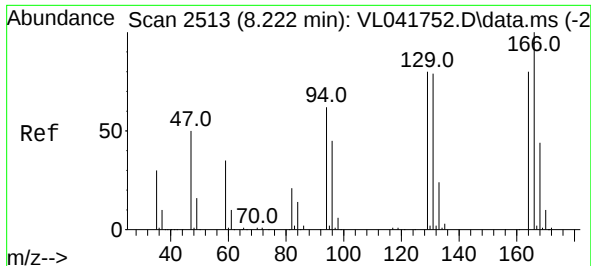
Ion Ratio Lower Upper

63 100

41 0.2 75.3 112.9#

62 19.3 57.3 85.9#





#52

Tetrachloroethene

Concen: 10.503 ppbv

RT: 8.241 min Scan# 2119

Delta R.T. 0.019 min

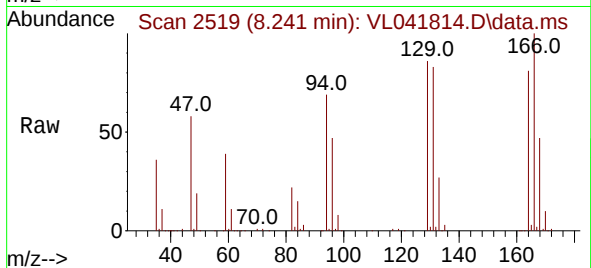
Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion:164 Resp: 73433

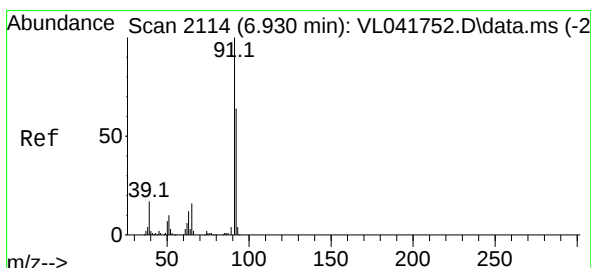
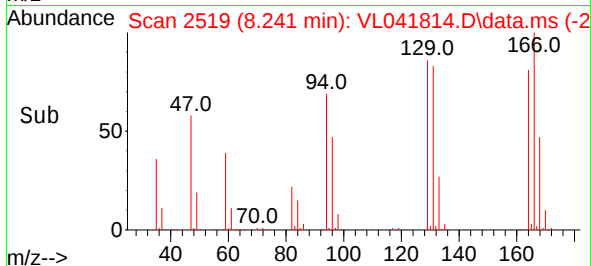
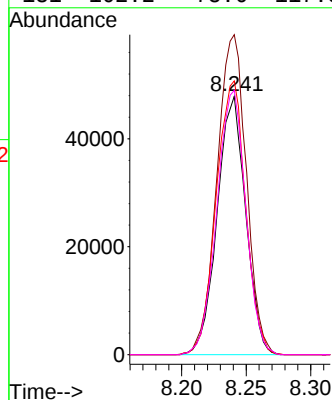
Ion Ratio Lower Upper

164 100

166 123.6 99.8 149.6

129 105.9 79.6 119.4

131 102.2 78.6 117.8



#53

Toluene

Concen: 0.115 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.026 min

Lab File: VL041814.D

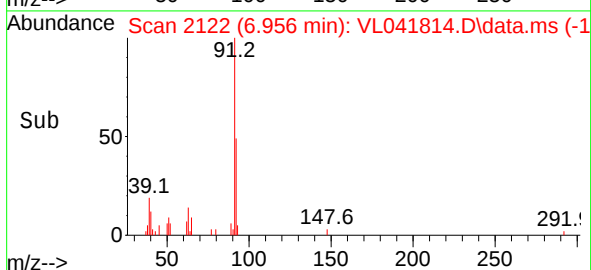
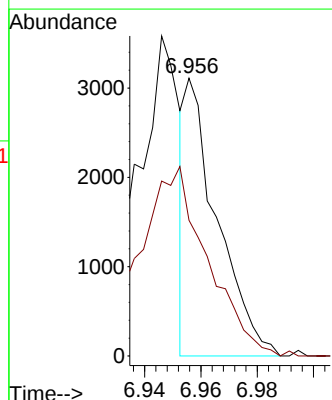
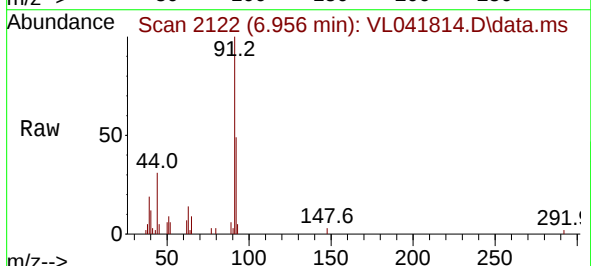
Acq: 19 Dec 2024 02:26

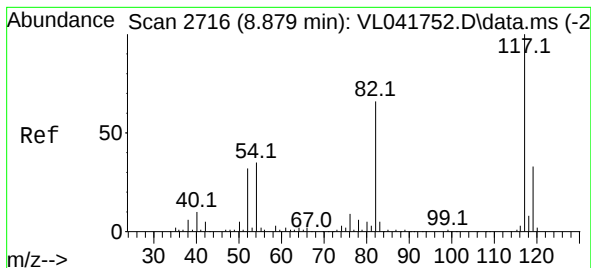
Tgt Ion: 91 Resp: 2450

Ion Ratio Lower Upper

91 100

92 152.5 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Instrument :

MSVOA\_L

ClientSampleId :

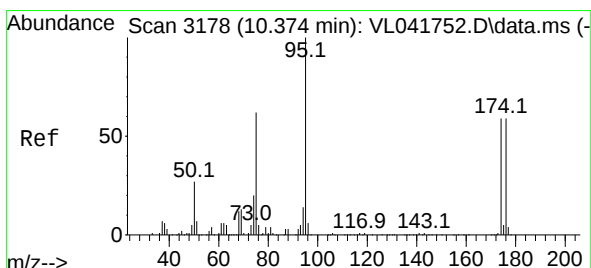
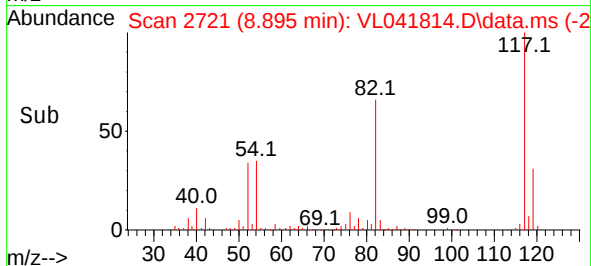
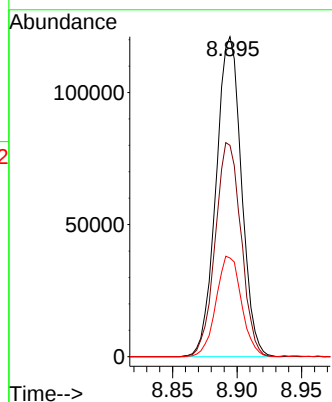
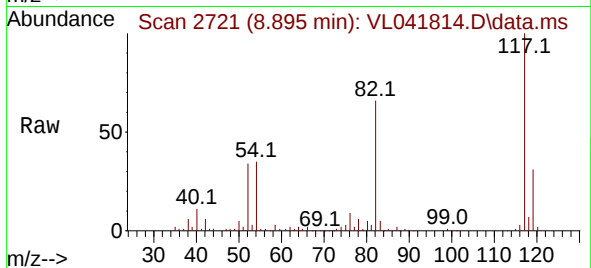
Tgt Ion:117 Resp: 165578

Ion Ratio Lower Upper

117 100

82 68.2 53.8 80.8

119 31.6 26.7 40.1



#68

1-Bromo-4-Fluorobenzene

Concen: 9.670 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.013 min

Lab File: VL041814.D

Acq: 19 Dec 2024 02:26

Tgt Ion: 95 Resp: 133430

Ion Ratio Lower Upper

95 100

174 57.9 47.6 71.4

175 4.6 3.7 5.5

