

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041923\  
 Data File : VL040394.D  
 Acq On : 20 Apr 2023 00:18  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Apr 20 07:50:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041323AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Apr 13 14:37:02 2023  
 Response via : Initial Calibration

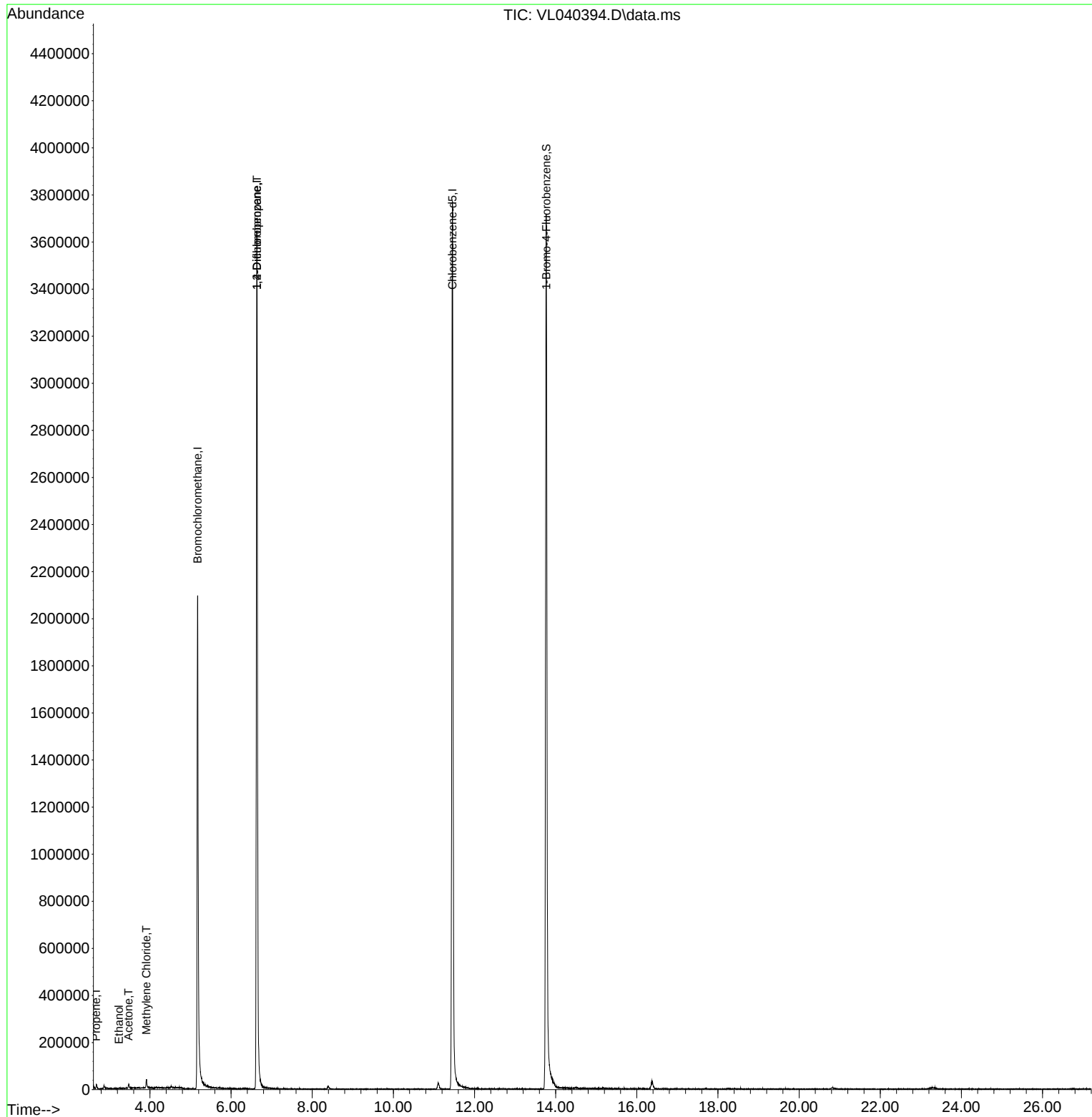
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.172  | 49    | 1099518  | 10.000   | ppbv   | -0.02    |
| 33) 1,4-Difluorobenzene     | 6.635  | 114   | 2870935  | 10.000   | ppbv   | -0.02    |
| 55) Chlorobenzene-d5        | 11.455 | 117   | 2550259  | 10.000   | ppbv   | -0.02    |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.767 | 95    | 1949689  | 9.245    | ppbv   | -0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 92.500%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 2.674  | 41    | 2384     | 0.042    | ppbv # | 58       |
| 13) Ethanol                 | 3.234  | 45    | 369      | 0.078    | ppbv # | 37       |
| 15) Acetone                 | 3.468  | 43    | 5377     | 0.035    | ppbv # | 1        |
| 20) Methylene Chloride      | 3.915  | 84    | 7682     | 0.124    | ppbv # | 92       |
| 39) 1,2-Dichloropropane     | 6.635  | 63    | 696959   | 7.562    | ppbv # | 24       |
| -----                       |        |       |          |          |        |          |

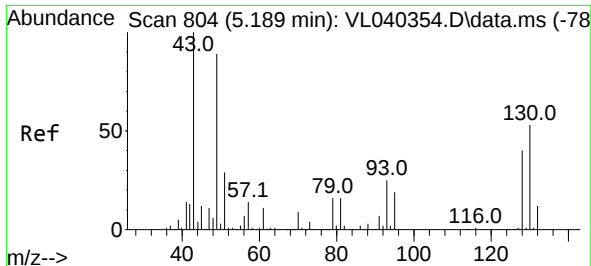
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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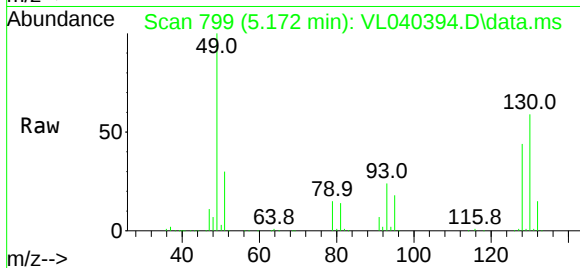
Quant Time: Apr 20 07:50:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041323AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Apr 13 14:37:02 2023  
Response via : Initial Calibration





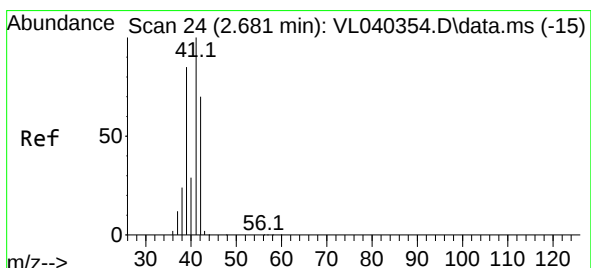
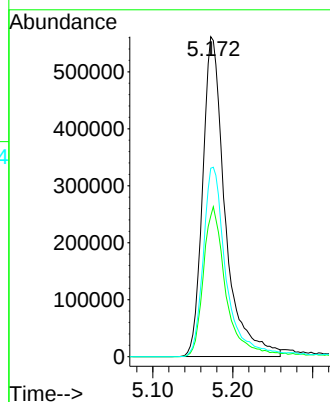
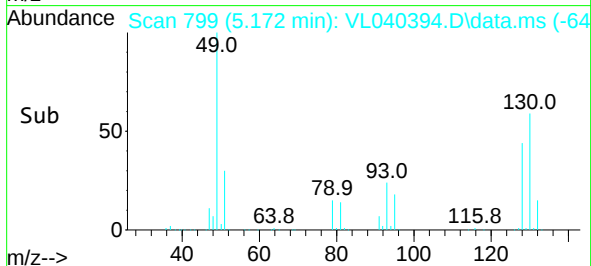
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.172 min Scan# 79  
Delta R.T. -0.017 min  
Lab File: VL040394.D  
Acq: 20 Apr 2023 00:18

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 49 Resp: 1099518

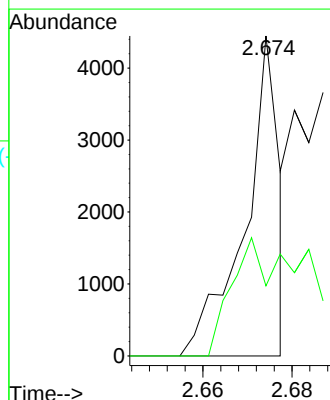
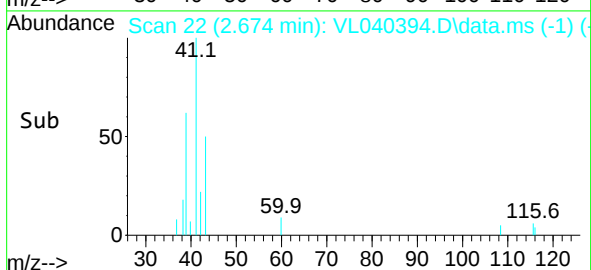
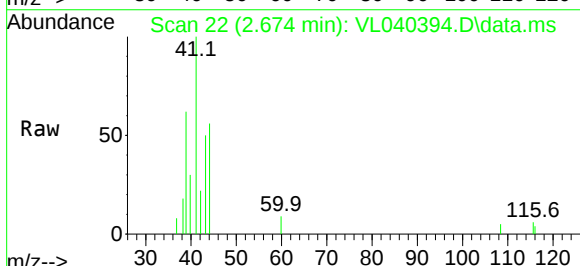
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 48.5  | 23.7  | 71.1  |
| 130 | 61.3  | 29.9  | 89.8  |

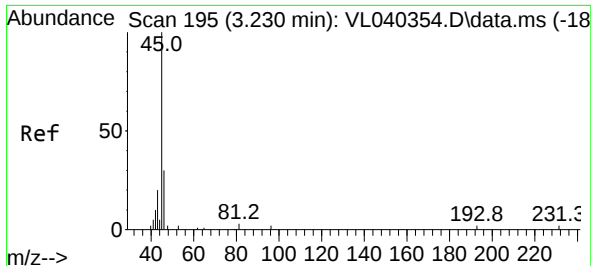


#9  
Propene  
Concen: 0.042 ppbv  
RT: 2.674 min Scan# 22  
Delta R.T. -0.007 min  
Lab File: VL040394.D  
Acq: 20 Apr 2023 00:18

Tgt Ion: 41 Resp: 2384

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 42  | 105.4 | 56.5  | 84.7  |

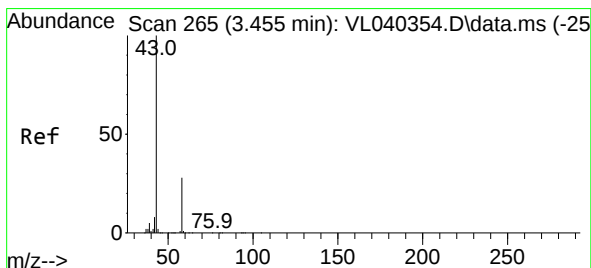
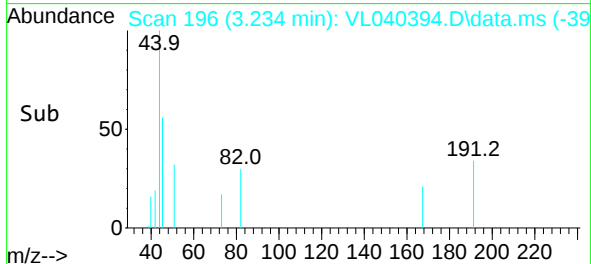
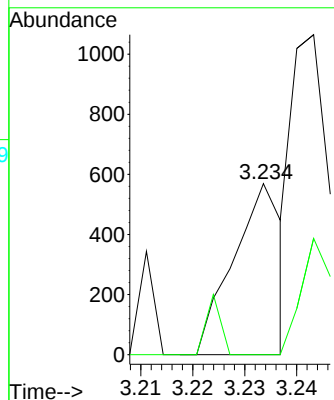
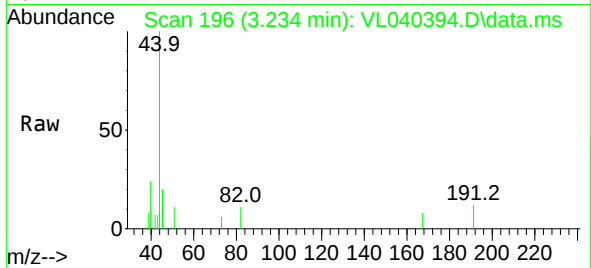




#13  
Ethanol  
Concen: 0.078 ppbv  
RT: 3.234 min Scan# 195  
Delta R.T. 0.004 min  
Lab File: VL040394.D  
Acq: 20 Apr 2023 00:18

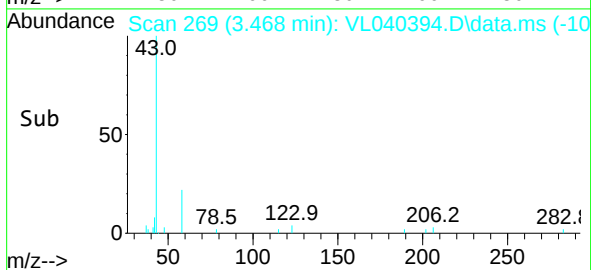
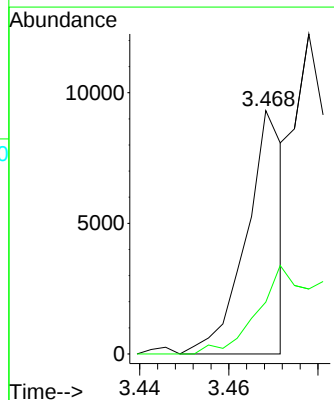
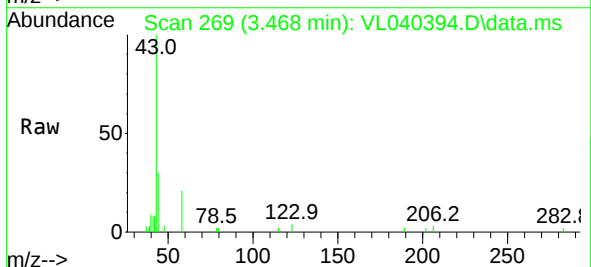
Instrument :  
MSVOA\_L  
ClientSampleId :

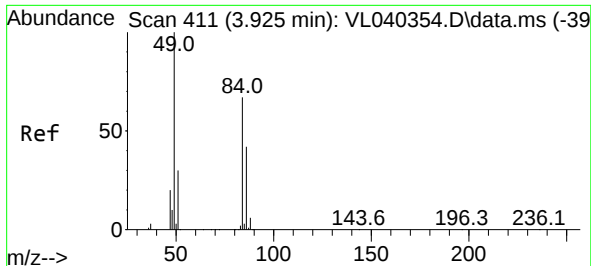
Tgt Ion: 45 Resp: 369  
Ion Ratio Lower Upper  
45 100  
46 0.0 15.3 61.3#



#15  
Acetone  
Concen: 0.035 ppbv  
RT: 3.468 min Scan# 269  
Delta R.T. 0.013 min  
Lab File: VL040394.D  
Acq: 20 Apr 2023 00:18

Tgt Ion: 43 Resp: 5377  
Ion Ratio Lower Upper  
43 100  
58 119.1 22.2 33.2#





#20

Methylene Chloride

Concen: 0.124 ppbv

RT: 3.915 min Scan# 411

Delta R.T. -0.010 min

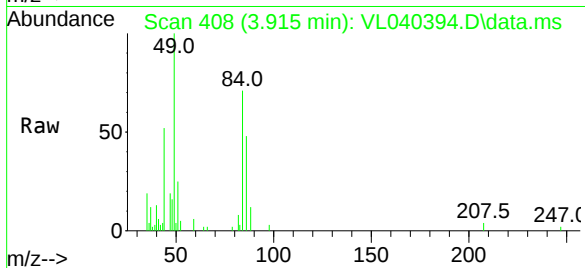
Lab File: VL040394.D

Acq: 20 Apr 2023 00:18

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion: 84 Resp: 7682

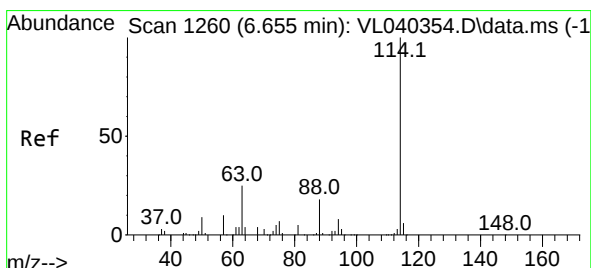
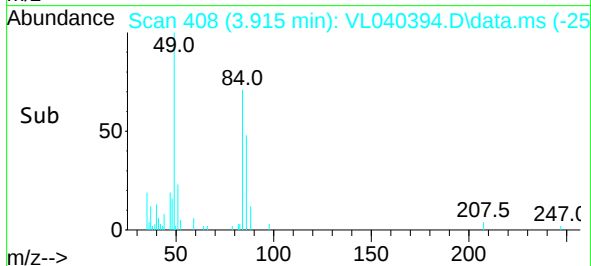
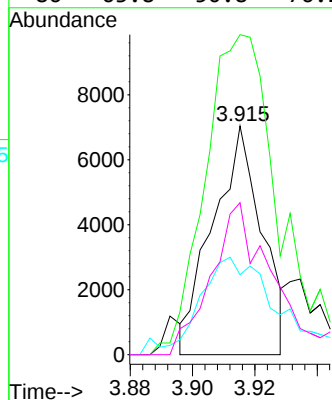
Ion Ratio Lower Upper

84 100

49 140.3 120.1 180.1

51 32.9 36.3 54.5#

86 63.8 50.8 76.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. -0.020 min

Lab File: VL040394.D

Acq: 20 Apr 2023 00:18

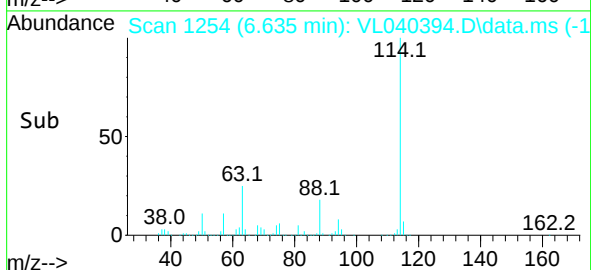
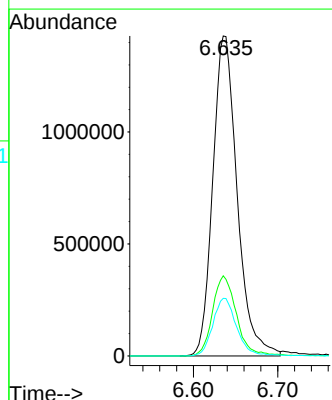
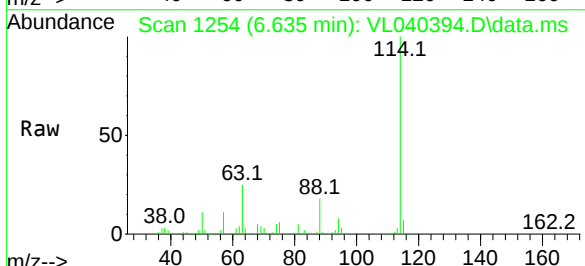
Tgt Ion: 114 Resp: 2870935

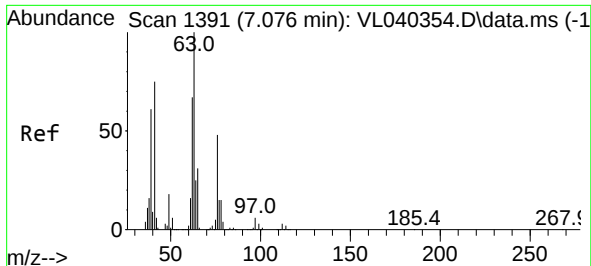
Ion Ratio Lower Upper

114 100

63 24.7 21.4 32.0

88 17.8 14.6 22.0





#39

1,2-Dichloropropane

Concen: 7.562 ppbv

RT: 6.635 min Scan# 11

Delta R.T. -0.441 min

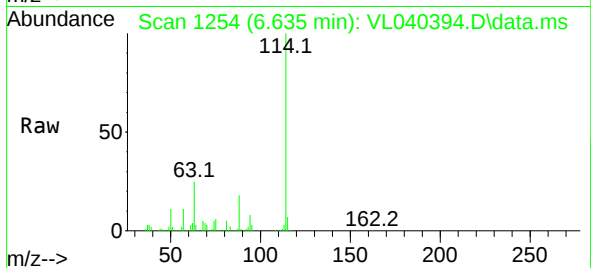
Lab File: VL040394.D

Acq: 20 Apr 2023 00:18

Instrument :

MSVOA\_L

ClientSampleId :



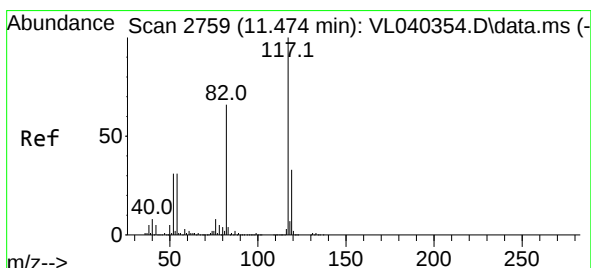
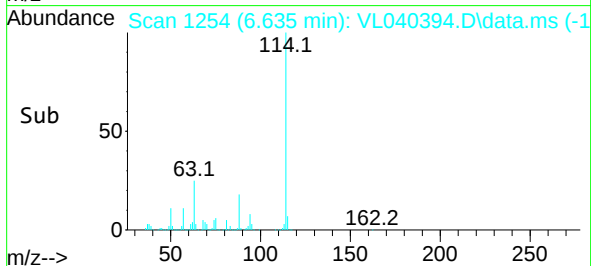
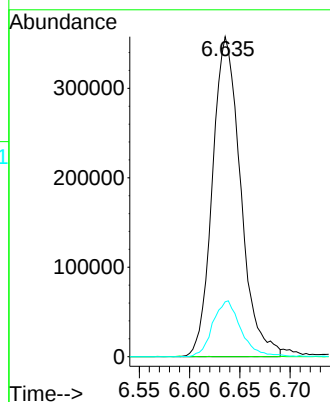
Tgt Ion: 63 Resp: 696959

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.2 53.9 80.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. -0.019 min

Lab File: VL040394.D

Acq: 20 Apr 2023 00:18

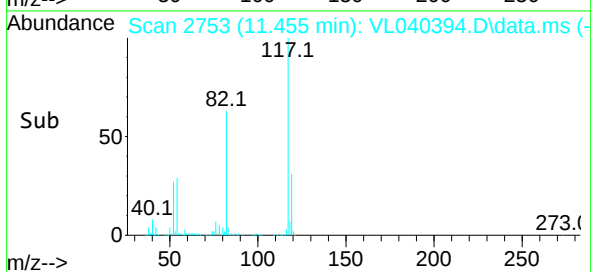
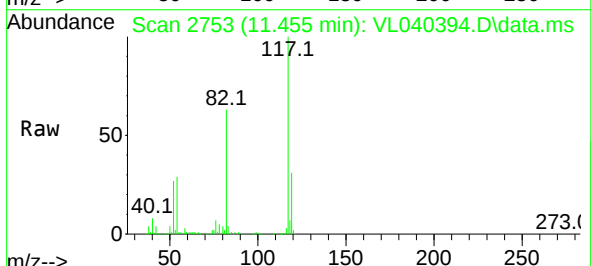
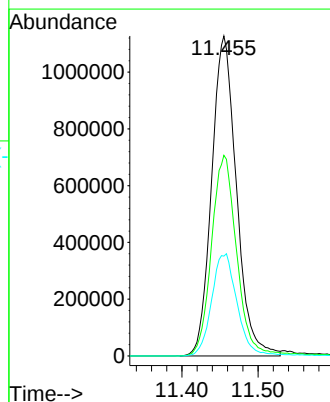
Tgt Ion: 117 Resp: 2550259

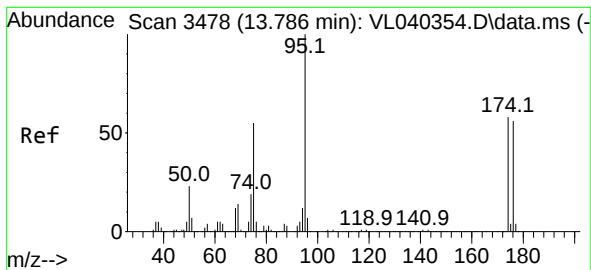
Ion Ratio Lower Upper

117 100

82 64.7 52.5 78.7

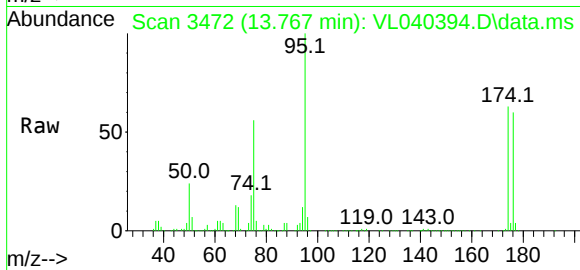
119 33.1 24.3 36.5





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.245 ppbv  
 RT: 13.767 min Scan# 34  
 Delta R.T. -0.019 min  
 Lab File: VL040394.D  
 Acq: 20 Apr 2023 00:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion: 95 Resp: 1949689  
 Ion Ratio Lower Upper  
 95 100  
 174 65.4 47.2 70.8  
 175 4.6 3.5 5.3

