

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL102122\  
 Data File : VL039751.D  
 Acq On : 21 Oct 2022 19:57  
 Operator : SY/AP  
 Sample : 10266 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1

Quant Time: Oct 22 04:25:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL102122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Sat Oct 22 02:12:34 2022  
 Response via : Initial Calibration

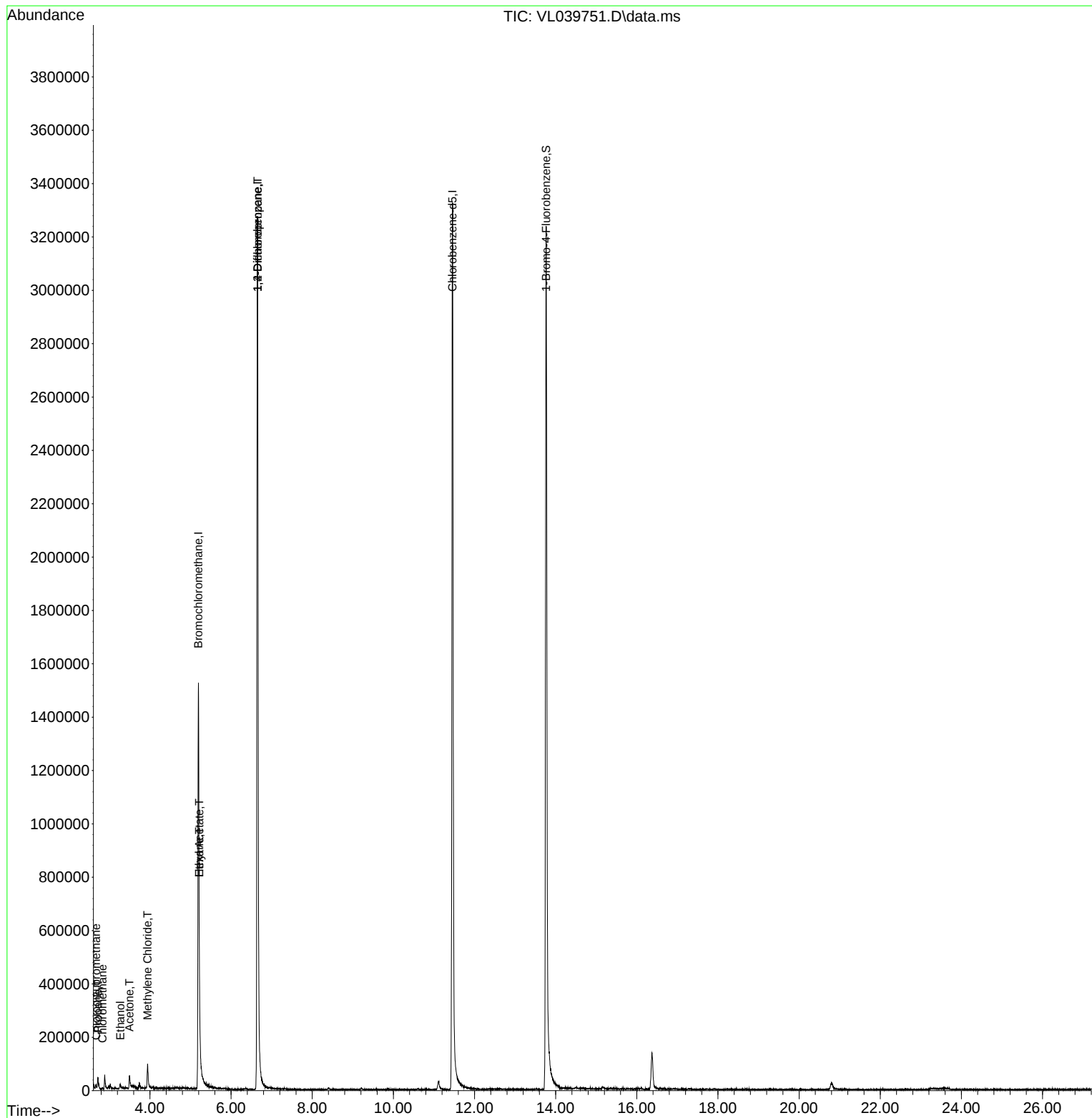
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.192  | 49    | 879031   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.651  | 114   | 2601422  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.458 | 117   | 2225110  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.764 | 95    | 1602101  | 10.143   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 101.400% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chlorodifluoromethane    | 2.674  | 51    | 16178    | 0.144    | ppbv # | 72       |
| 4) Chloromethane            | 2.828  | 50    | 4010     | 0.057    | ppbv # | 44       |
| 9) Propene                  | 2.719  | 41    | 10112    | 0.198    | ppbv   | 95       |
| 13) Ethanol                 | 3.269  | 45    | 9542     | 2.738    | ppbv   | 70       |
| 15) Acetone                 | 3.494  | 43    | 43554    | 0.410    | ppbv # | 89       |
| 20) Methylene Chloride      | 3.944  | 84    | 30573    | 0.716    | ppbv   | 93       |
| 25) Ethyl Acetate           | 5.214  | 43    | 12555    | 0.059    | ppbv # | 87       |
| 26) Hexane                  | 5.214  | 57    | 33825    | 0.391    | ppbv # | 37       |
| 39) 1,2-Dichloropropane     | 6.651  | 63    | 627618   | 8.333    | ppbv # | 24       |
| -----                       |        |       |          |          |        |          |

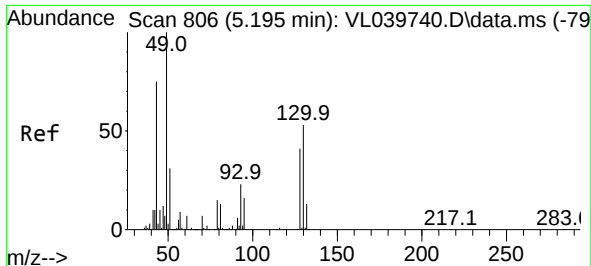
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL102122\  
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Instrument :  
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IA-1

Quant Time: Oct 22 04:25:59 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL102122AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Sat Oct 22 02:12:34 2022  
Response via : Initial Calibration

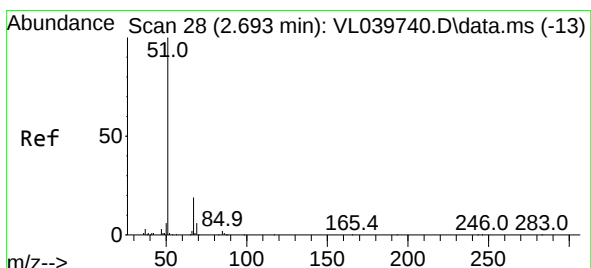
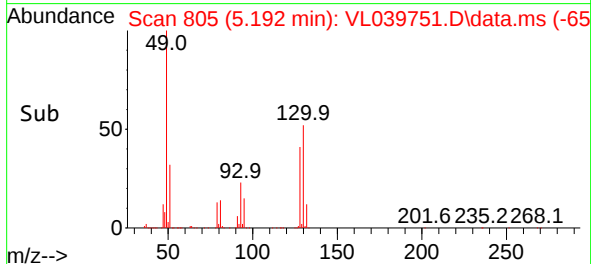
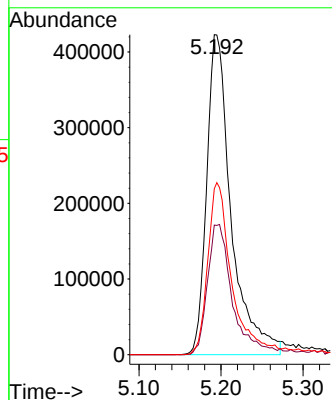
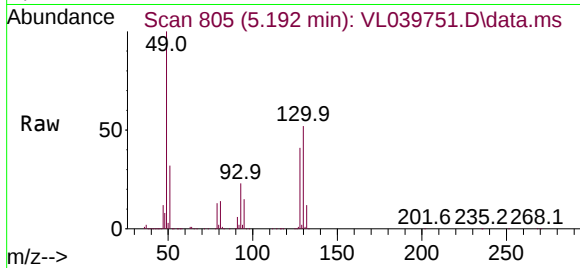




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.192 min Scan# 80  
 Delta R.T. -0.003 min  
 Lab File: VL039751.D  
 Acq: 21 Oct 2022 19:57

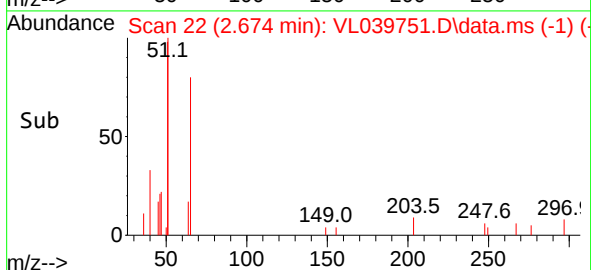
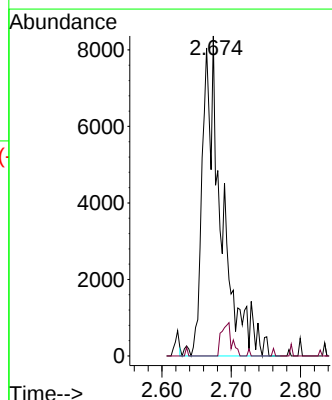
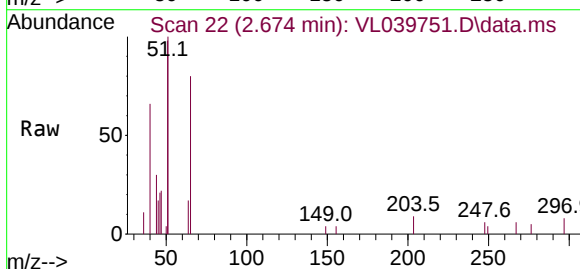
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1

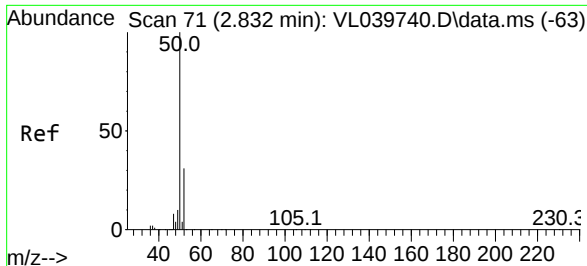
Tgt Ion: 49 Resp: 879031  
 Ion Ratio Lower Upper  
 49 100  
 128 42.4 22.6 67.8  
 130 55.2 29.0 87.0



#3  
 Chlorodifluoromethane  
 Concen: 0.144 ppbv  
 RT: 2.674 min Scan# 22  
 Delta R.T. -0.019 min  
 Lab File: VL039751.D  
 Acq: 21 Oct 2022 19:57

Tgt Ion: 51 Resp: 16178  
 Ion Ratio Lower Upper  
 51 100  
 67 5.6 14.6 21.8

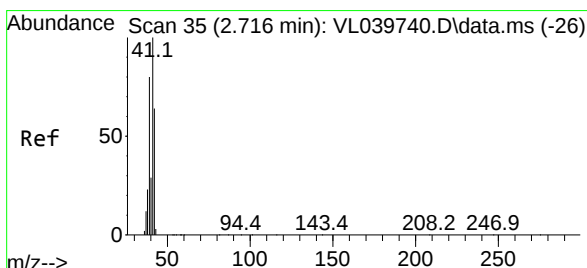
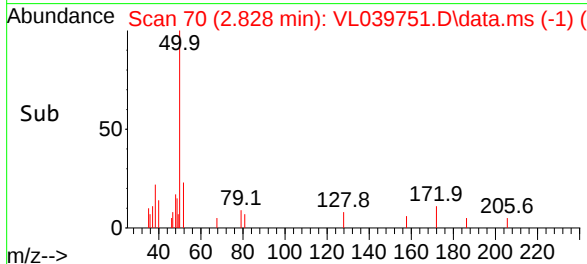
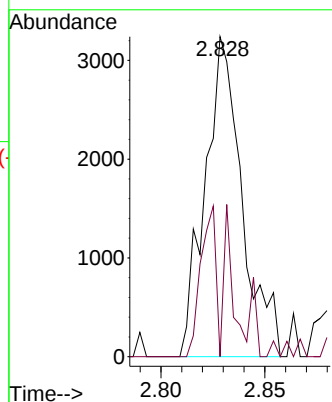
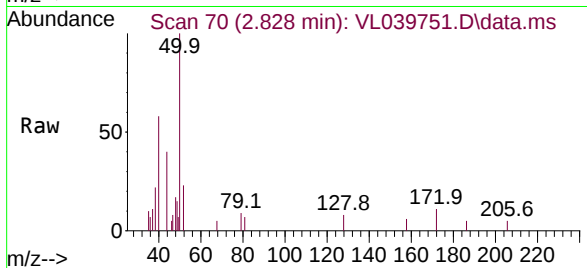




#4  
Chloromethane  
Concen: 0.057 ppbv  
RT: 2.828 min Scan# 70  
Delta R.T. -0.003 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

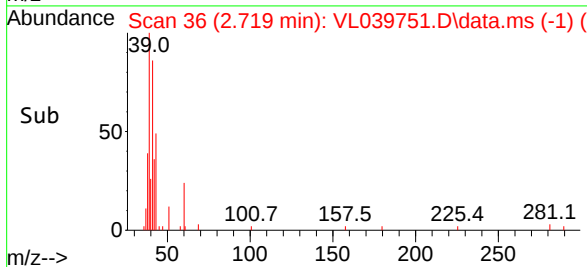
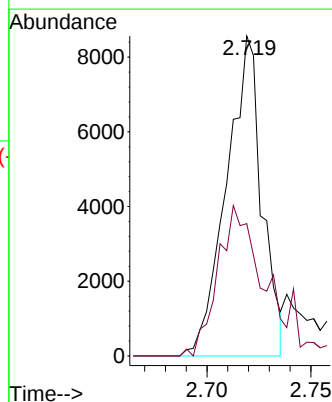
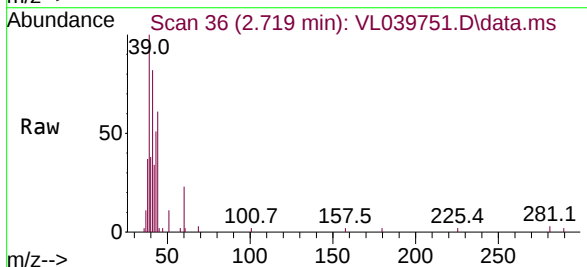
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1

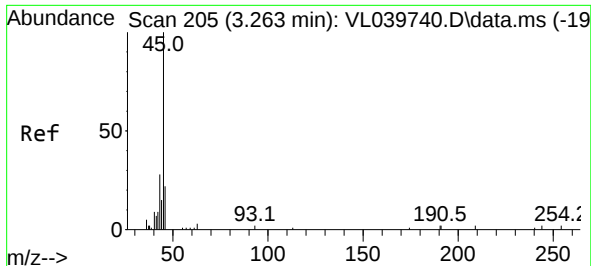
Tgt Ion: 50 Resp: 4010  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.8 37.2#



#9  
Propene  
Concen: 0.198 ppbv  
RT: 2.719 min Scan# 36  
Delta R.T. 0.003 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

Tgt Ion: 41 Resp: 10112  
Ion Ratio Lower Upper  
41 100  
42 64.0 54.4 81.6

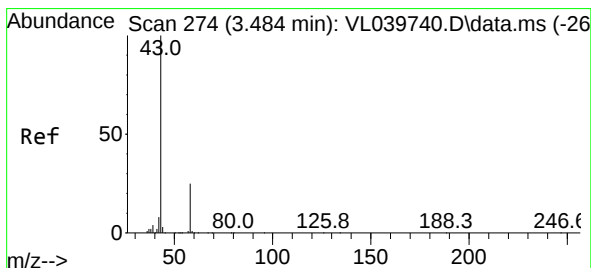
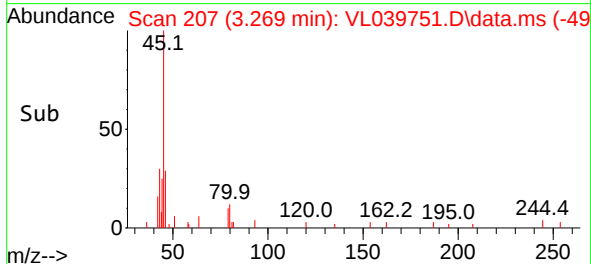
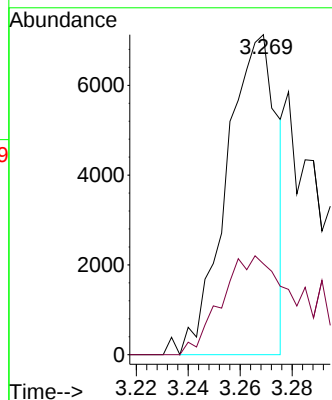
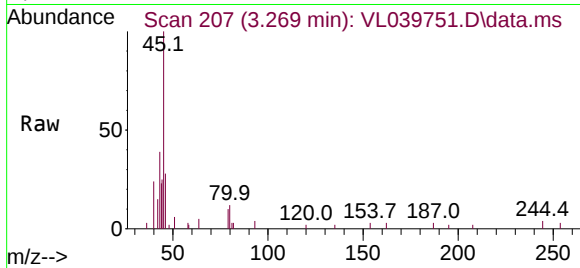




#13  
Ethanol  
Concen: 2.738 ppbv  
RT: 3.269 min Scan# 205  
Delta R.T. 0.006 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

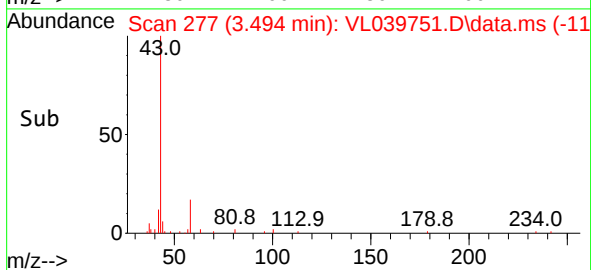
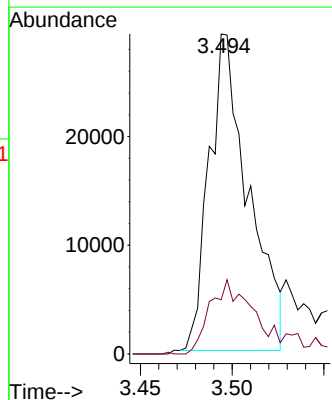
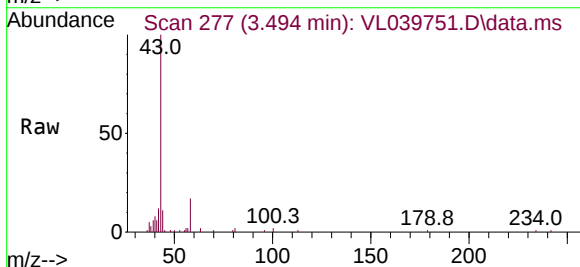
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1

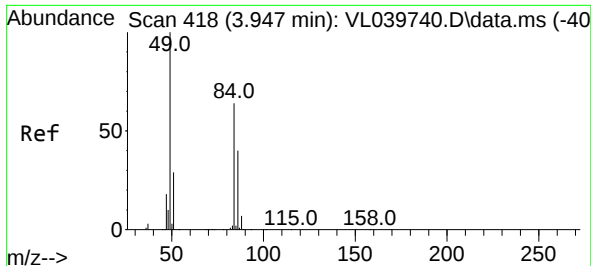
Tgt Ion: 45 Resp: 9542  
Ion Ratio Lower Upper  
45 100  
46 54.9 14.8 59.2



#15  
Acetone  
Concen: 0.410 ppbv  
RT: 3.494 min Scan# 277  
Delta R.T. 0.010 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

Tgt Ion: 43 Resp: 43554  
Ion Ratio Lower Upper  
43 100  
58 31.8 20.9 31.3#



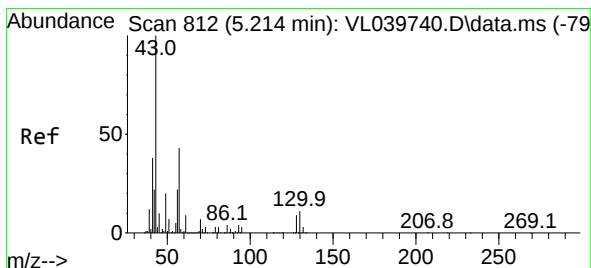
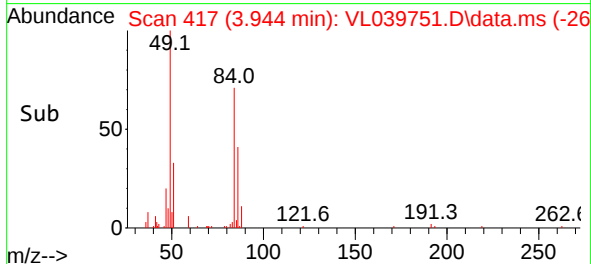
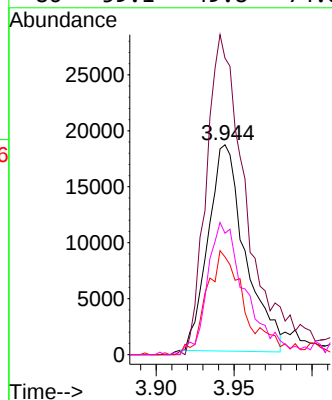
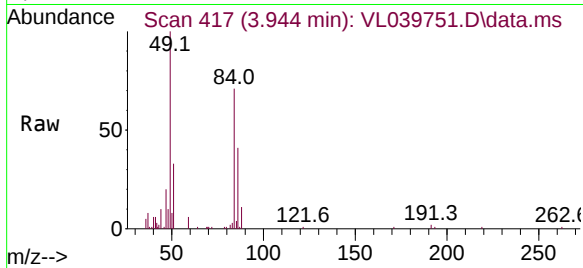


#20  
Methylene Chloride  
Concen: 0.716 ppbv  
RT: 3.944 min Scan# 418  
Delta R.T. -0.003 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1

Tgt Ion: 84 Resp: 30573

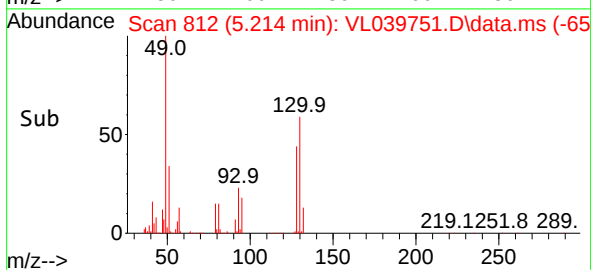
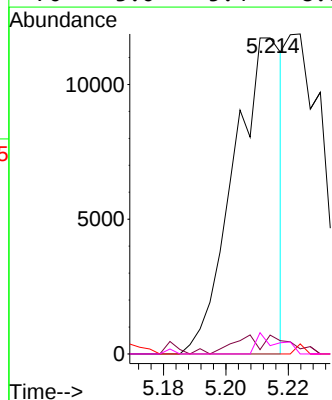
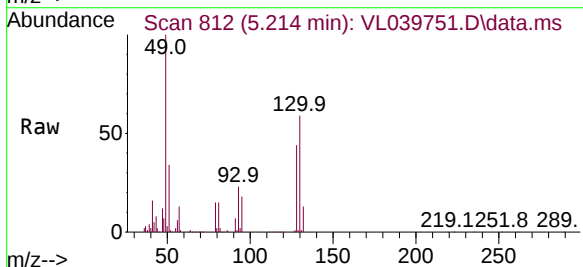
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 142.7 | 124.2 | 186.4 |
| 51  | 47.5  | 36.6  | 54.8  |
| 86  | 59.1  | 49.8  | 74.8  |

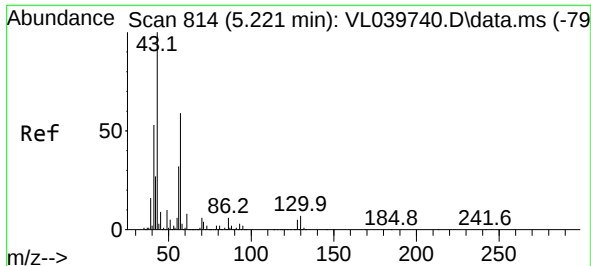


#25  
Ethyl Acetate  
Concen: 0.059 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. 0.000 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

Tgt Ion: 43 Resp: 12555

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 8.0   | 8.1   | 12.1# |
| 61  | 1.2   | 7.5   | 11.3# |
| 70  | 3.0   | 5.4   | 8.0#  |

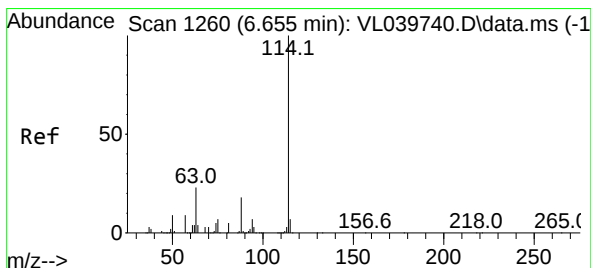
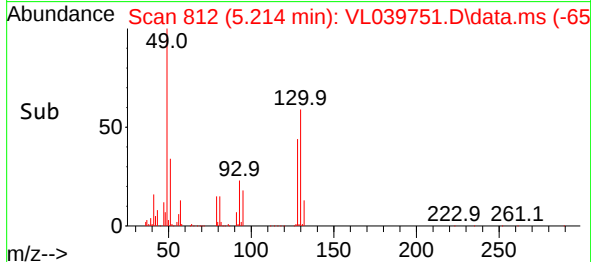
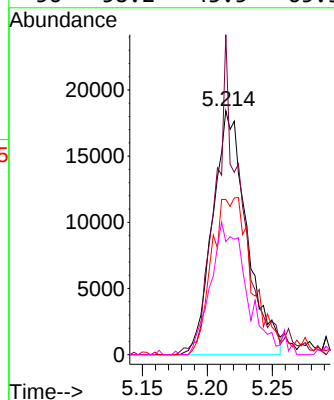
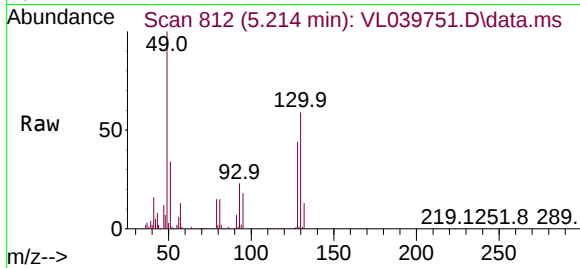




#26  
Hexane  
Concen: 0.391 ppbv  
RT: 5.214 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

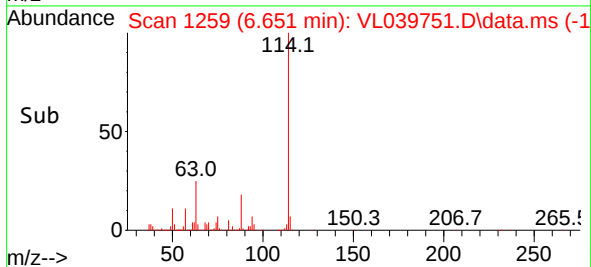
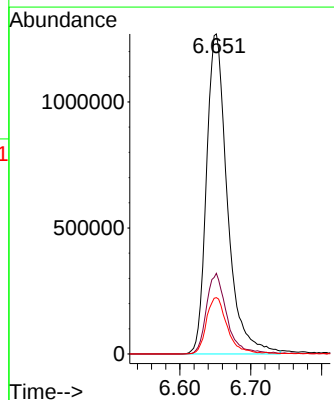
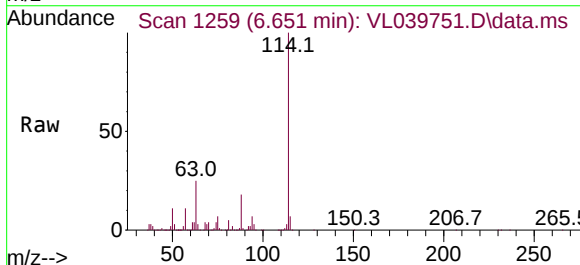
Instrument :  
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IA-1

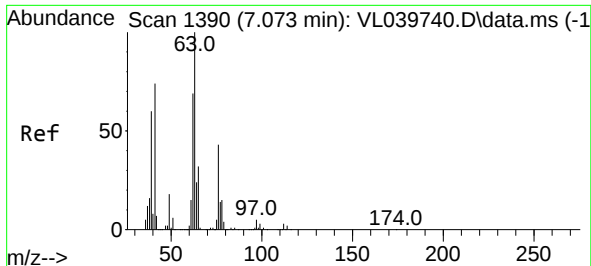
Tgt Ion: 57 Resp: 33825  
Ion Ratio Lower Upper  
57 100  
41 101.9 76.8 115.2  
43 81.6 201.0 301.4#  
56 58.2 43.5 65.3



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.651 min Scan# 1259  
Delta R.T. -0.003 min  
Lab File: VL039751.D  
Acq: 21 Oct 2022 19:57

Tgt Ion: 114 Resp: 2601422  
Ion Ratio Lower Upper  
114 100  
63 25.2 19.8 29.6  
88 17.9 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.333 ppbv

RT: 6.651 min Scan# 1

Delta R.T. -0.421 min

Lab File: VL039751.D

Acq: 21 Oct 2022 19:57

Instrument :

MSVOA\_L

ClientSampleId :

IA-1

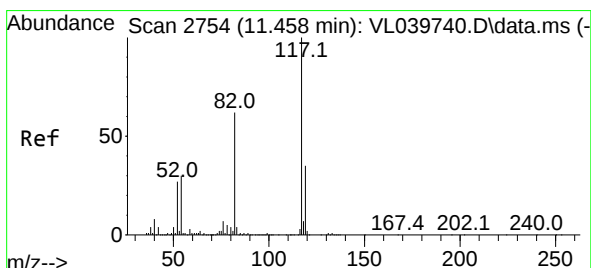
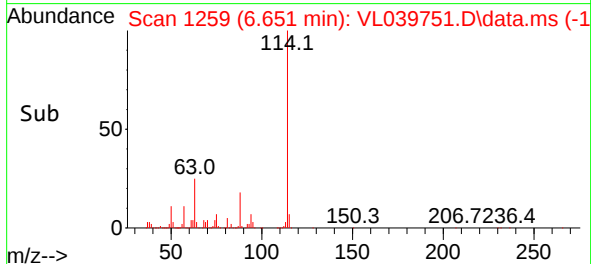
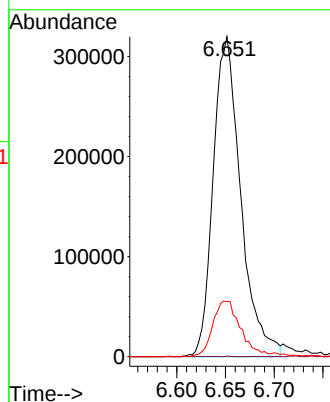
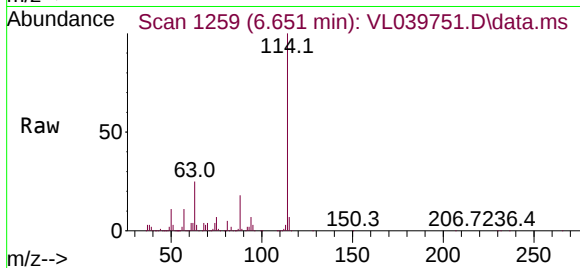
Tgt Ion: 63 Resp: 627618

Ion Ratio Lower Upper

63 100

41 0.3 59.5 89.3#

62 17.2 55.2 82.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. 0.000 min

Lab File: VL039751.D

Acq: 21 Oct 2022 19:57

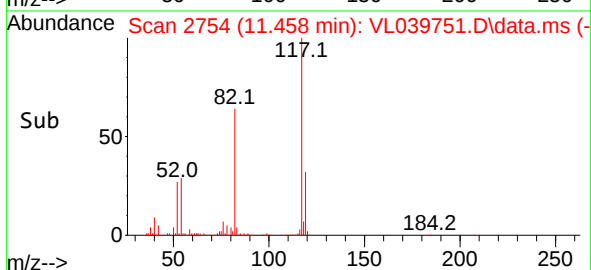
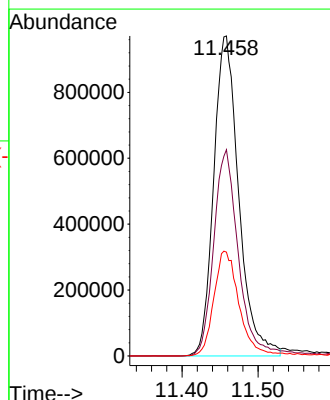
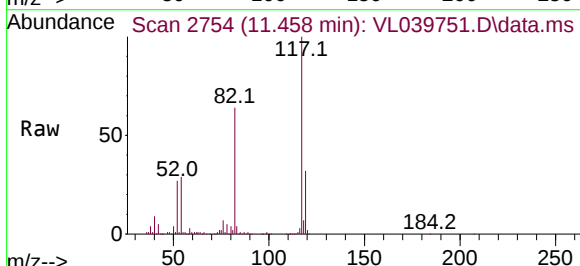
Tgt Ion: 117 Resp: 2225110

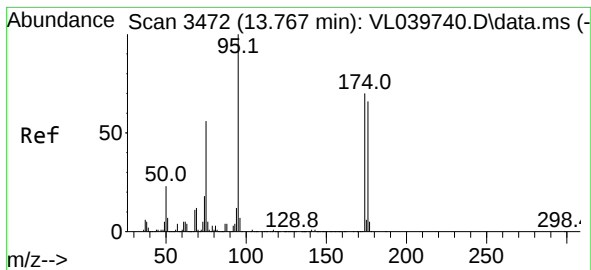
Ion Ratio Lower Upper

117 100

82 64.5 51.4 77.0

119 33.8 24.6 36.8





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.143 ppbv  
 RT: 13.764 min Scan# 34  
 Delta R.T. -0.003 min  
 Lab File: VL039751.D  
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 IA-1

Tgt Ion: 95 Resp: 1602101  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 71.6  | 56.5  | 84.7  |
| 175 | 5.7   | 4.2   | 6.4   |

