

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092122\  
 Data File : VL039654.D  
 Acq On : 22 Sep 2022 3:35  
 Operator : SY/AP  
 Sample : N4669-07DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Sep 22 08:26:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Sep 19 14:26:28 2022  
 Response via : Initial Calibration

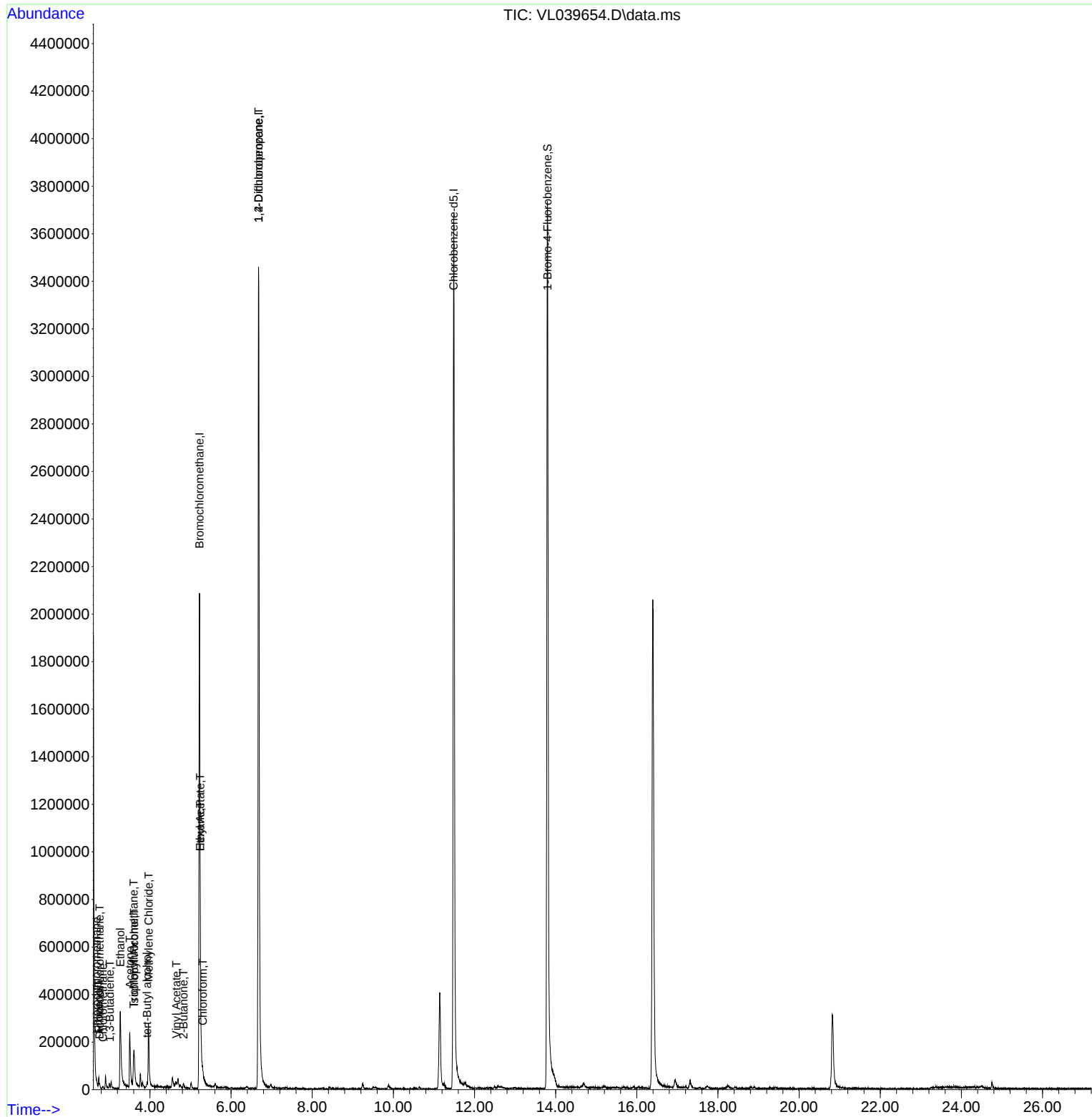
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.221  | 49    | 1055426  | 10.000   | ppbv   | 0.01     |
| 33) 1,4-Difluorobenzene     | 6.677  | 114   | 2760202  | 10.000   | ppbv   | 0.02     |
| 55) Chlorobenzene-d5        | 11.487 | 117   | 2471344  | 10.000   | ppbv   | 0.02     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.799 | 95    | 1804857  | 9.783    | ppbv   | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.800%  |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.761  | 85    | 6572     | 0.054    | ppbv # | 69       |
| 3) Chlorodifluoromethane    | 2.681  | 51    | 13707    | 0.109    | ppbv # | 57       |
| 4) Chloromethane            | 2.842  | 50    | 2388     | 0.032    | ppbv # | 55       |
| 9) Propene                  | 2.739  | 41    | 9773     | 0.171    | ppbv # | 79       |
| 11) Trichlorofluoromethane  | 3.600  | 101   | 70725    | 0.467    | ppbv   | 89       |
| 13) Ethanol                 | 3.269  | 45    | 411840   | 94.490   | ppbv   | 74       |
| 15) Acetone                 | 3.504  | 43    | 244401   | 2.081    | ppbv   | 94       |
| 16) 1,3-Butadiene           | 3.012  | 39    | 1811     | 0.030    | ppbv # | 10       |
| 17) tert-Butyl alcohol      | 3.932  | 59    | 8305     | 0.079    | ppbv # | 81       |
| 19) Isopropyl Alcohol       | 3.610  | 45    | 102785   | 1.717    | ppbv # | 90       |
| 20) Methylene Chloride      | 3.967  | 84    | 90141    | 1.660    | ppbv   | 97       |
| 23) Vinyl Acetate           | 4.652  | 43    | 2911     | 0.055    | ppbv # | 1        |
| 25) Ethyl Acetate           | 5.240  | 43    | 38535    | 0.150    | ppbv # | 93       |
| 26) Hexane                  | 5.240  | 57    | 23586    | 0.217    | ppbv # | 59       |
| 29) Chloroform              | 5.301  | 83    | 6716     | 0.043    | ppbv   | 94       |
| 34) 2-Butanone              | 4.825  | 43    | 12928    | 0.095    | ppbv # | 61       |
| 39) 1,2-Dichloropropane     | 6.677  | 63    | 671926   | 8.246    | ppbv # | 26       |
| -----                       |        |       |          |          |        |          |

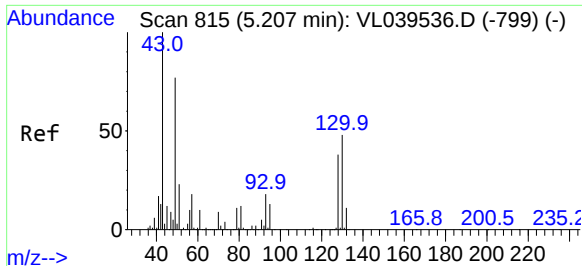
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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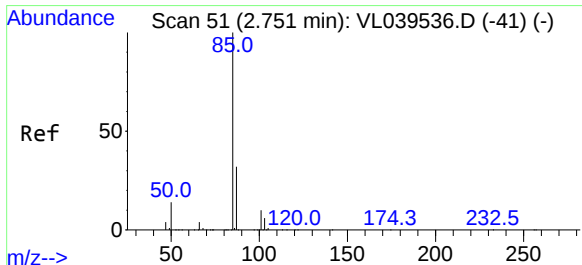
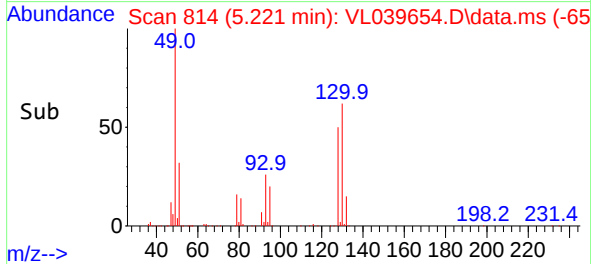
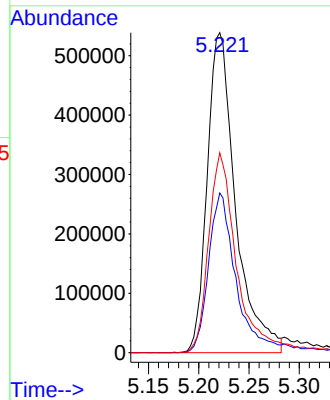
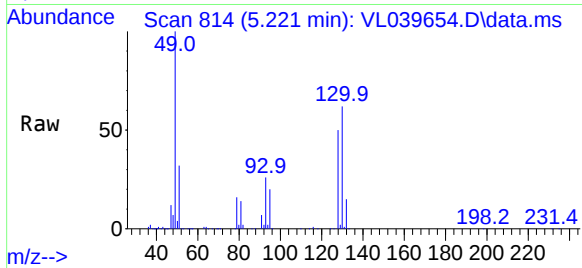




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.221 min Scan# 81  
Delta R.T. 0.014 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

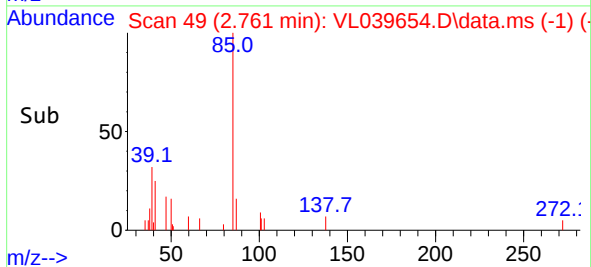
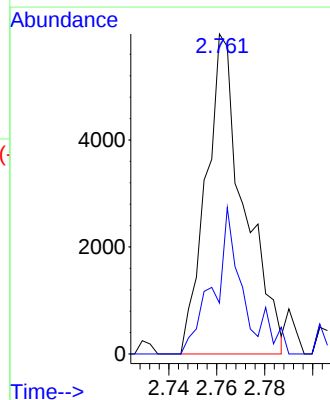
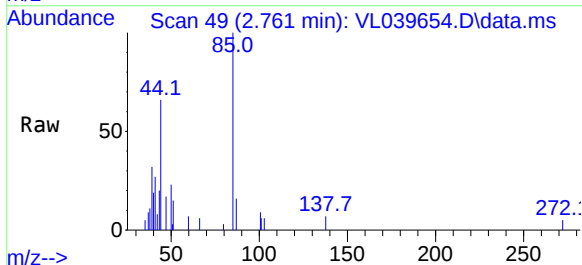
Instrument :  
MSVOA\_L  
ClientSampleId :

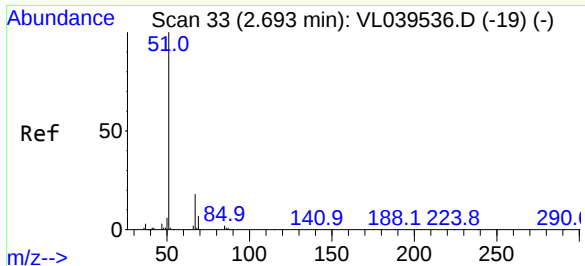
Tgt Ion: 49 Resp: 1055426  
Ion Ratio Lower Upper  
49 100  
128 51.7 26.7 80.0  
130 64.5 34.3 102.8



#2  
Dichlorodifluoromethane  
Concen: 0.054 ppbv  
RT: 2.761 min Scan# 49  
Delta R.T. 0.010 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Tgt Ion: 85 Resp: 6572  
Ion Ratio Lower Upper  
85 100  
87 15.9 26.7 40.1#

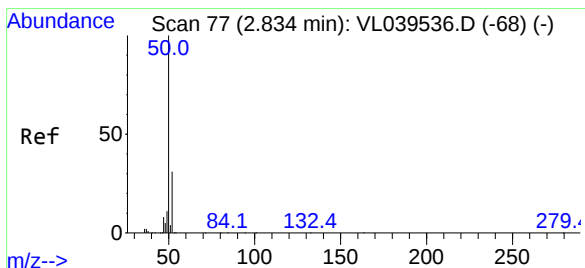
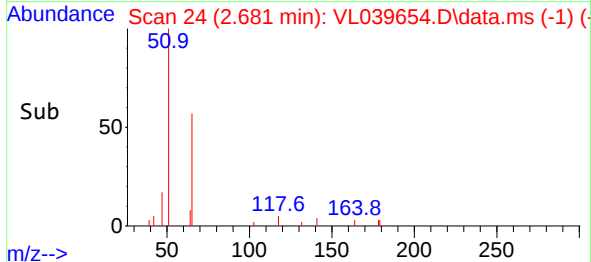
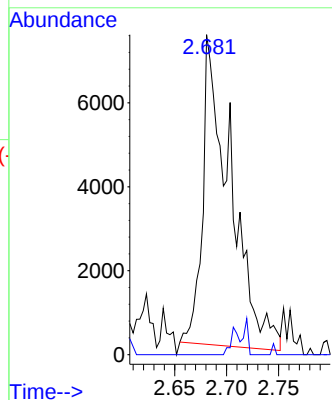
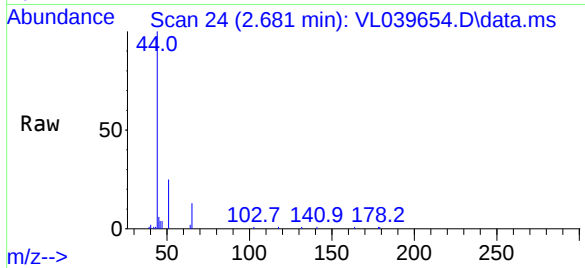




#3  
Chlorodifluoromethane  
Concen: 0.109 ppbv  
RT: 2.681 min Scan# 24  
Delta R.T. -0.012 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

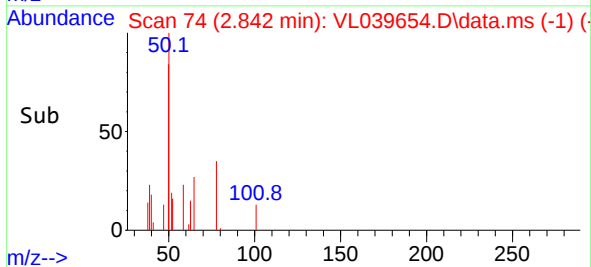
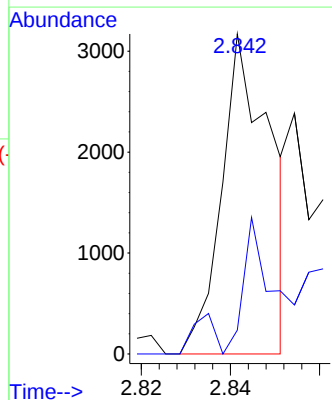
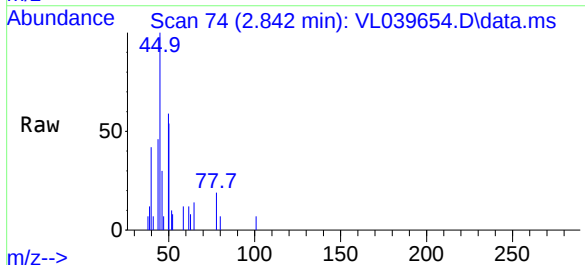
Instrument :  
MSVOA\_L  
ClientSampleId :

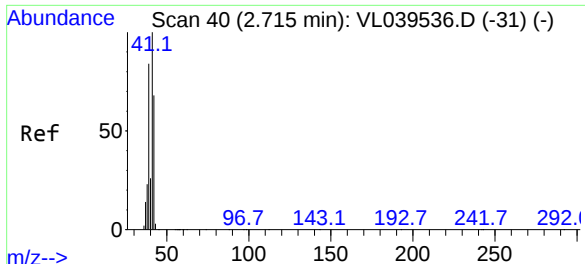
Tgt Ion: 51 Resp: 13707  
Ion Ratio Lower Upper  
51 100  
67 0.0 15.7 23.5#



#4  
Chloromethane  
Concen: 0.032 ppbv  
RT: 2.842 min Scan# 74  
Delta R.T. 0.007 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Tgt Ion: 50 Resp: 2388  
Ion Ratio Lower Upper  
50 100  
52 7.5 26.5 39.7#





#9

Propene

Concen: 0.171 ppbv

RT: 2.739 min Scan# 41

Delta R.T. 0.023 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA\_L

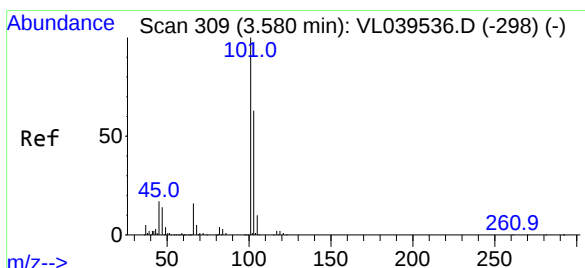
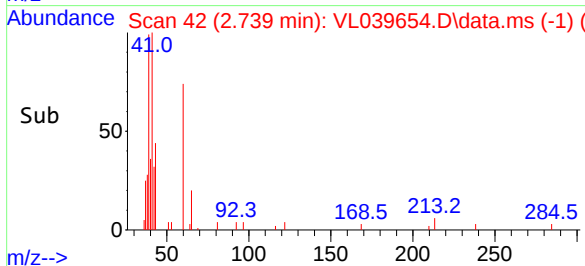
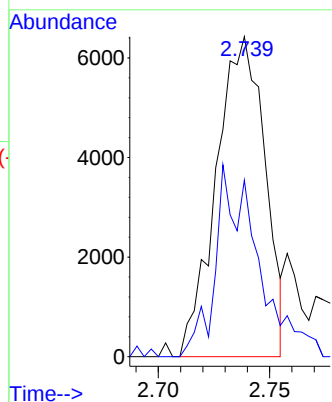
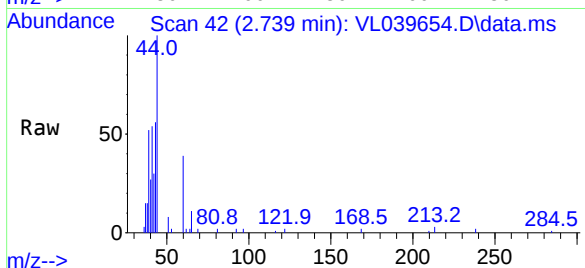
ClientSampleId :

Tgt Ion: 41 Resp: 9773

Ion Ratio Lower Upper

41 100

42 52.1 55.2 82.8#



#11

Trichlorofluoromethane

Concen: 0.467 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.020 min

Lab File: VL039654.D

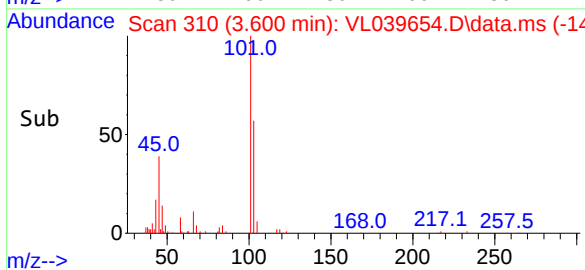
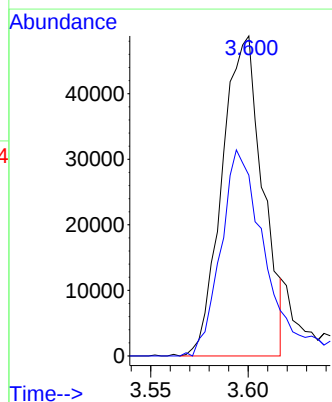
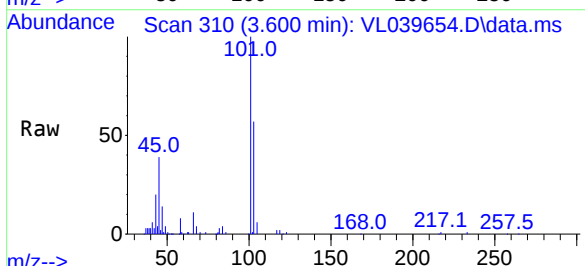
Acq: 22 Sep 2022 3:35

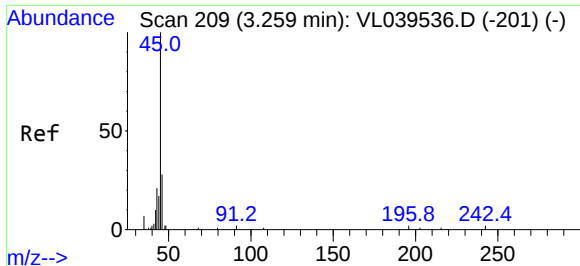
Tgt Ion: 101 Resp: 70725

Ion Ratio Lower Upper

101 100

103 56.5 51.8 77.8

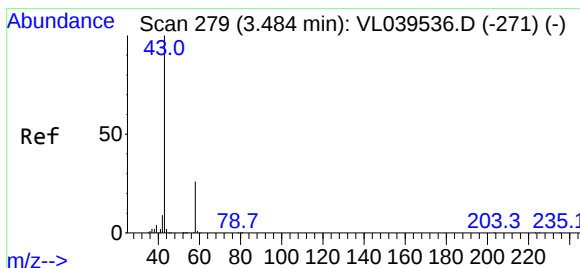
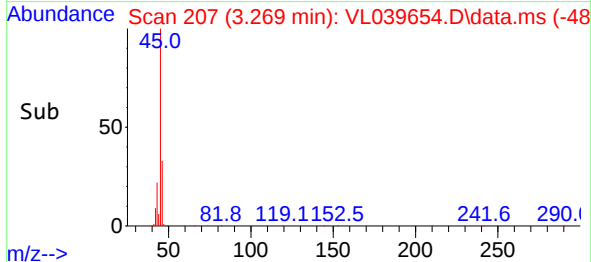
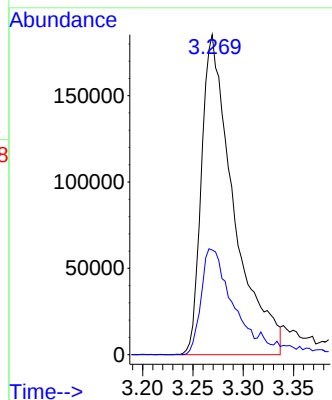
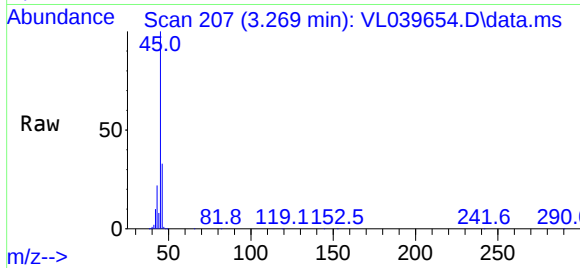




#13  
Ethanol  
Concen: 94.490 ppbv  
RT: 3.269 min Scan# 20  
Delta R.T. 0.010 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

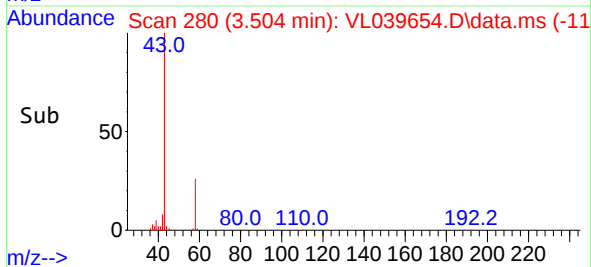
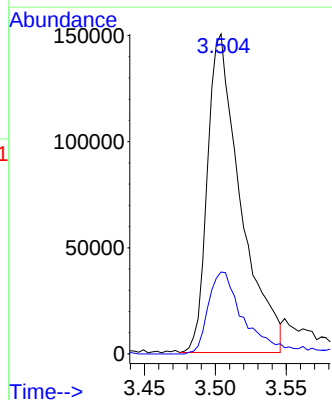
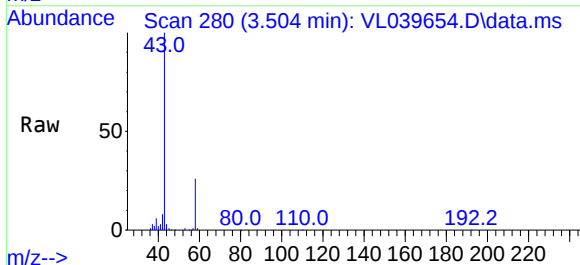
Instrument :  
MSVOA\_L  
ClientSampleId :

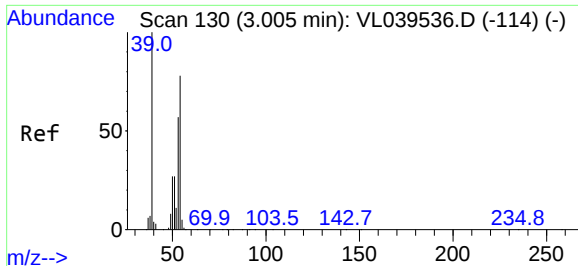
Tgt Ion: 45 Resp: 411840  
Ion Ratio Lower Upper  
45 100  
46 37.6 22.8 91.2



#15  
Acetone  
Concen: 2.081 ppbv  
RT: 3.504 min Scan# 280  
Delta R.T. 0.020 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Tgt Ion: 43 Resp: 244401  
Ion Ratio Lower Upper  
43 100  
58 29.3 21.0 31.6

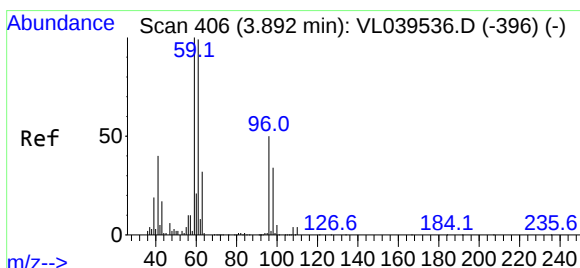
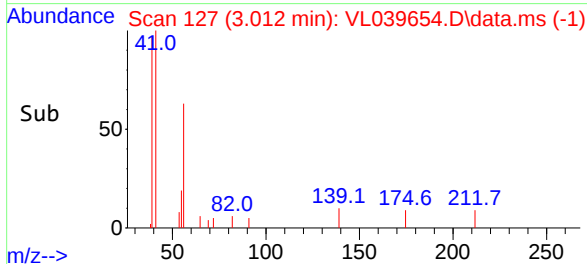
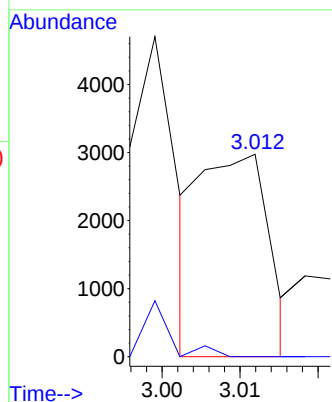
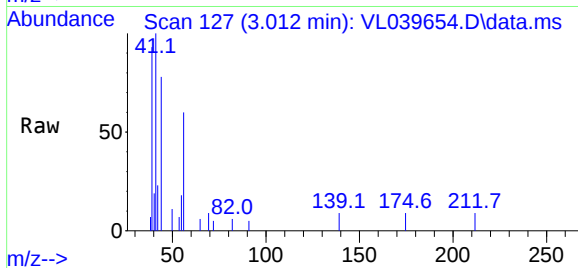




#16  
1,3-Butadiene  
Concen: 0.030 ppbv  
RT: 3.012 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

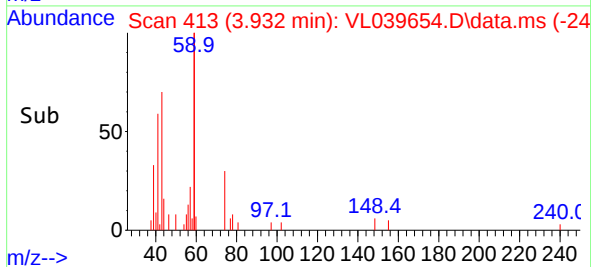
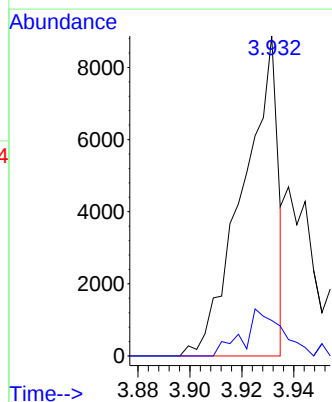
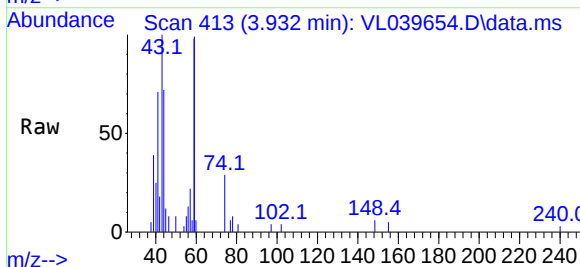
Instrument :  
MSVOA\_L  
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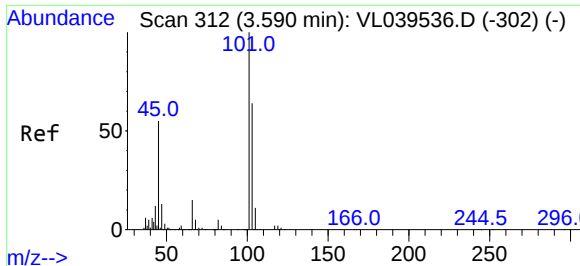
Tgt Ion: 39 Resp: 1811  
Ion Ratio Lower Upper  
39 100  
54 0.0 63.7 95.5#



#17  
tert-Butyl alcohol  
Concen: 0.079 ppbv  
RT: 3.932 min Scan# 413  
Delta R.T. 0.039 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Tgt Ion: 59 Resp: 8305  
Ion Ratio Lower Upper  
59 100  
57 18.2 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 1.717 ppbv

RT: 3.610 min Scan# 312

Delta R.T. 0.020 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA\_L

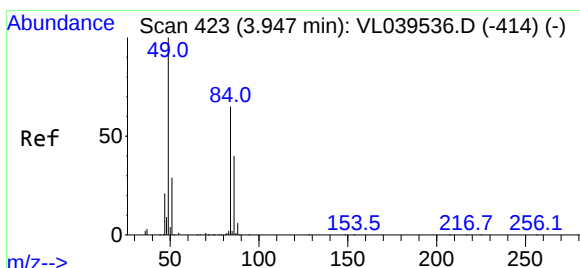
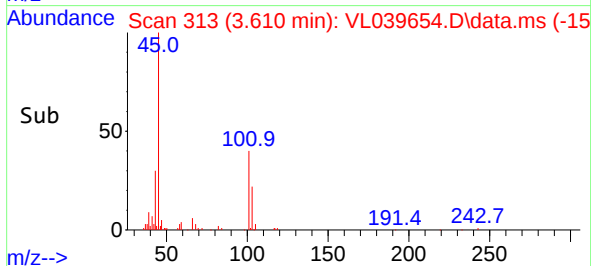
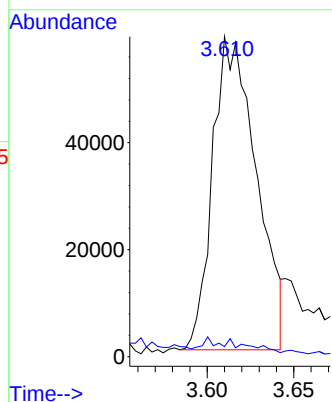
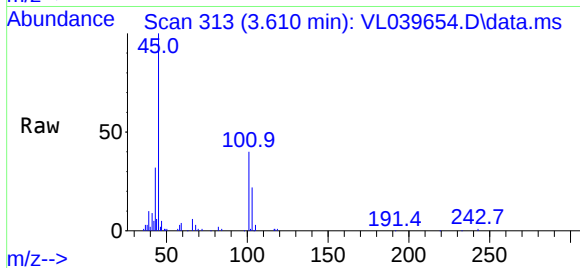
ClientSampleId :

Tgt Ion: 45 Resp: 102785

Ion Ratio Lower Upper

45 100

58 7.4 3.2 4.8#



#20

Methylene Chloride

Concen: 1.660 ppbv

RT: 3.967 min Scan# 424

Delta R.T. 0.020 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Tgt Ion: 84 Resp: 90141

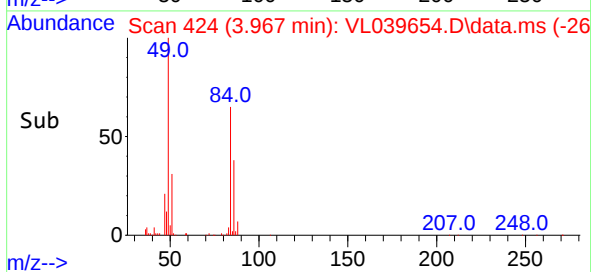
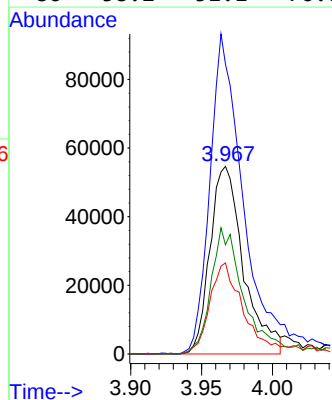
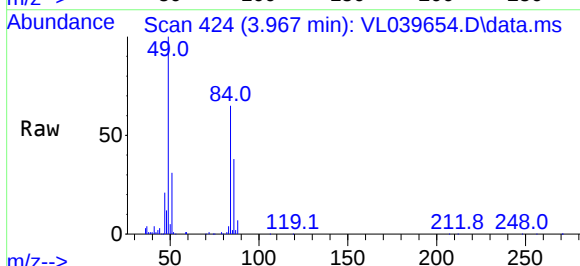
Ion Ratio Lower Upper

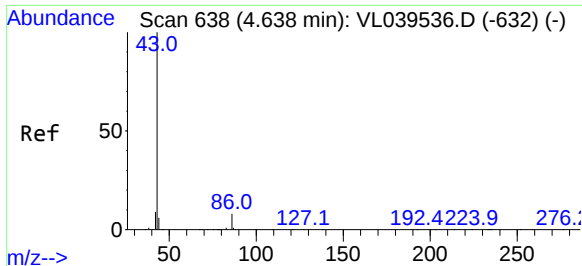
84 100

49 153.9 123.1 184.7

51 48.2 34.4 51.6

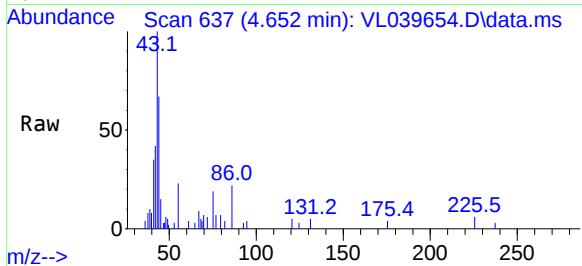
86 58.2 51.1 76.7





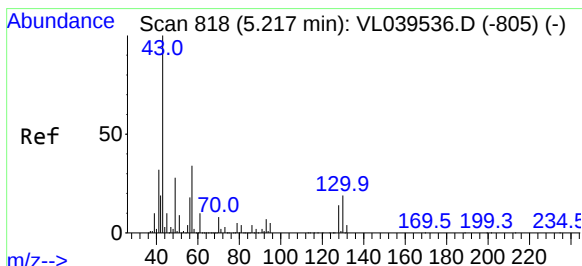
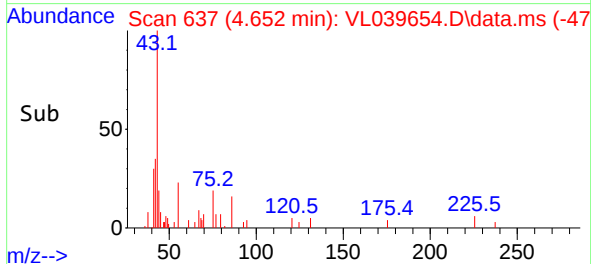
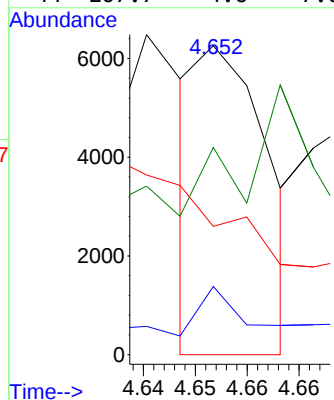
#23  
 Vinyl Acetate  
 Concen: 0.055 ppbv  
 RT: 4.652 min Scan# 61  
 Delta R.T. 0.014 min  
 Lab File: VL039654.D  
 Acq: 22 Sep 2022 3:35

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion: 43 Resp: 2911

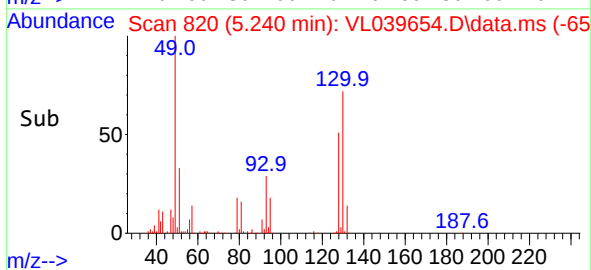
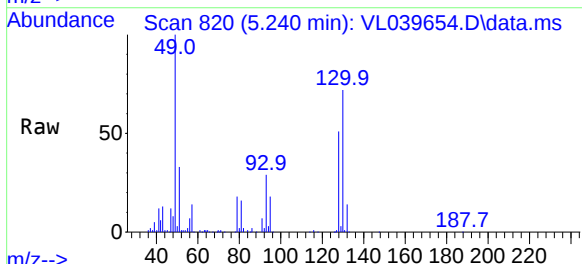
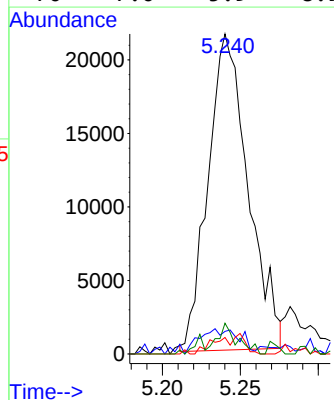
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 149.0 | 5.0   | 7.6#  |
| 42  | 114.9 | 7.7   | 11.5# |
| 44  | 207.7 | 4.6   | 7.0#  |

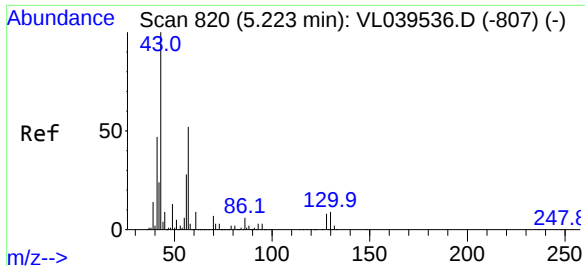


#25  
 Ethyl Acetate  
 Concen: 0.150 ppbv  
 RT: 5.240 min Scan# 820  
 Delta R.T. 0.023 min  
 Lab File: VL039654.D  
 Acq: 22 Sep 2022 3:35

Tgt Ion: 43 Resp: 38535

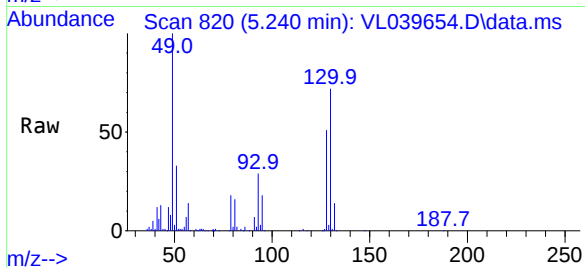
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 8.9   | 8.2   | 12.4  |
| 61  | 4.6   | 8.3   | 12.5# |
| 70  | 7.0   | 5.9   | 8.9   |





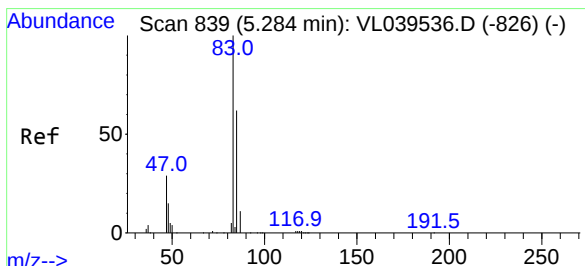
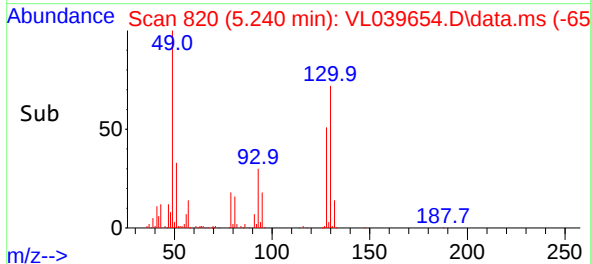
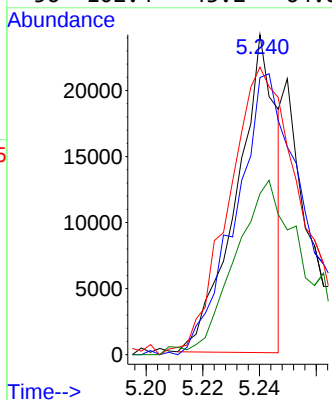
#26  
Hexane  
Concen: 0.217 ppbv  
RT: 5.240 min Scan# 811  
Delta R.T. 0.017 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 57 Resp: 23586

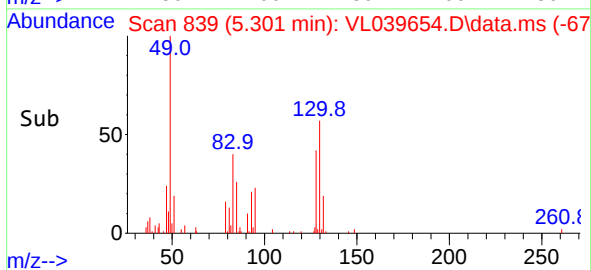
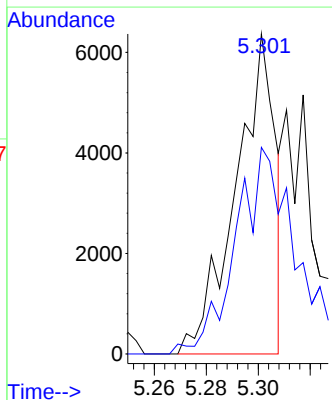
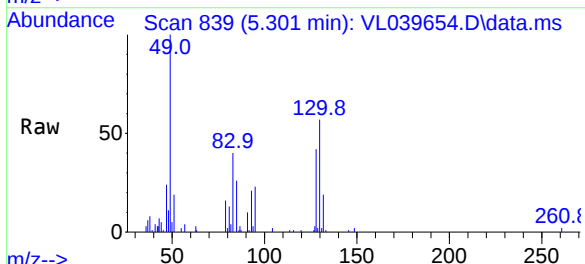
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 161.7 | 76.9  | 115.3# |
| 43  | 198.7 | 191.0 | 286.6  |
| 56  | 102.4 | 43.2  | 64.8#  |

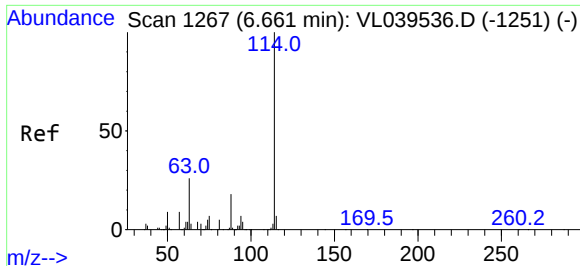


#29  
Chloroform  
Concen: 0.043 ppbv  
RT: 5.301 min Scan# 839  
Delta R.T. 0.017 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Tgt Ion: 83 Resp: 6716

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 61.4  | 52.8  | 79.2  |



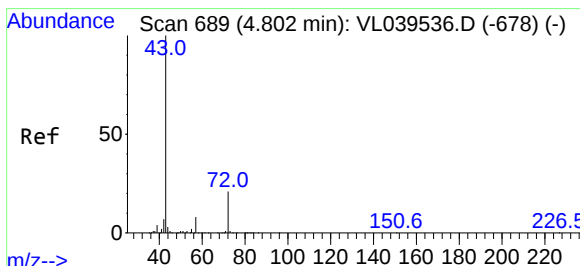
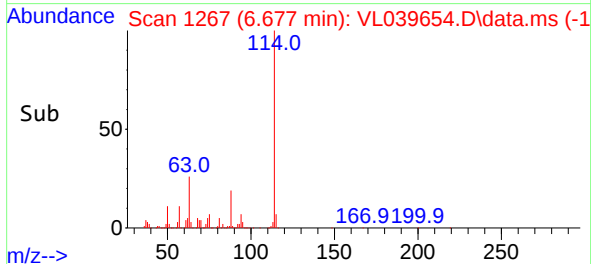
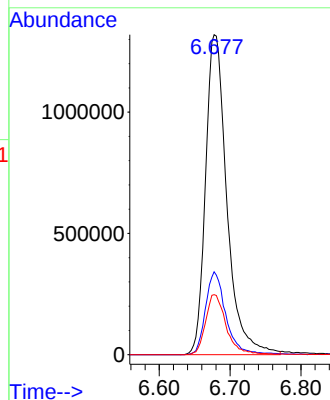
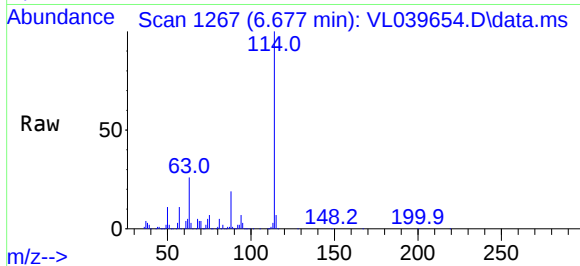


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.677 min Scan# 11  
Delta R.T. 0.017 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion:114 Resp: 2760202

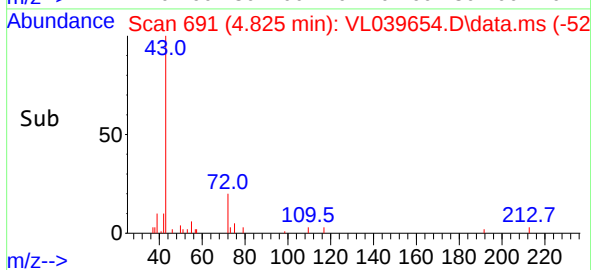
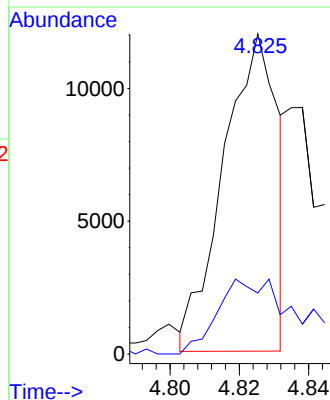
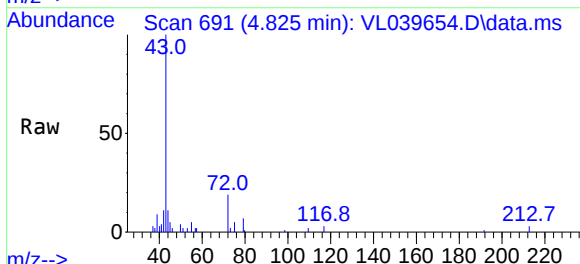
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.9  | 20.2  | 30.4  |
| 88  | 18.5  | 14.5  | 21.7  |

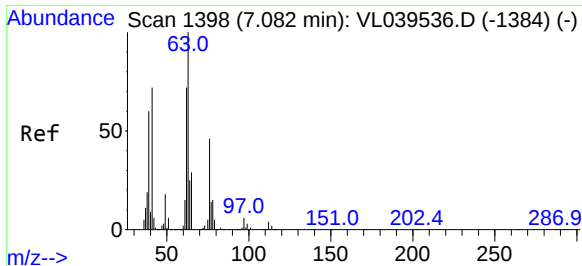


#34  
2-Butanone  
Concen: 0.095 ppbv  
RT: 4.825 min Scan# 691  
Delta R.T. 0.023 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Tgt Ion: 43 Resp: 12928

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 41.3  | 17.9  | 26.9  |





#39

1,2-Dichloropropane

Concen: 8.246 ppbv

RT: 6.677 min Scan# 11

Delta R.T. -0.404 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

Instrument :

MSVOA\_L

ClientSampleId :

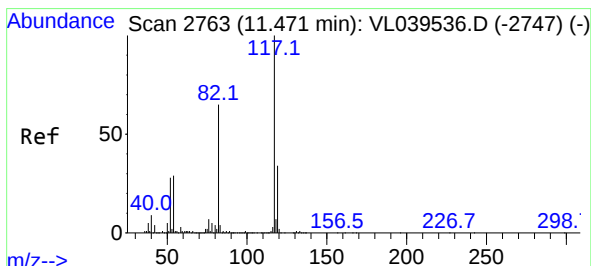
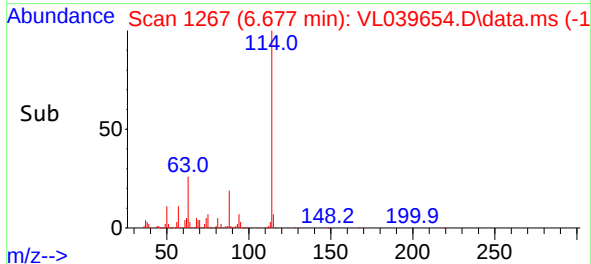
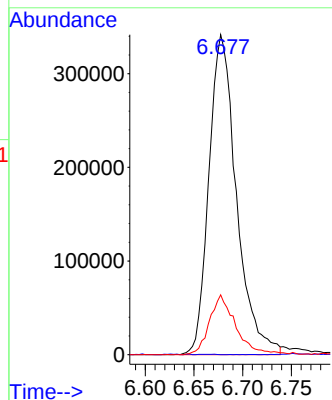
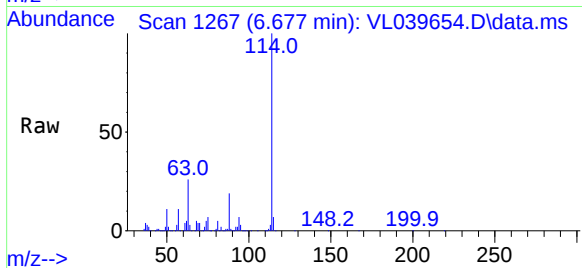
Tgt Ion: 63 Resp: 671926

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.7 51.4 77.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.487 min Scan# 2763

Delta R.T. 0.017 min

Lab File: VL039654.D

Acq: 22 Sep 2022 3:35

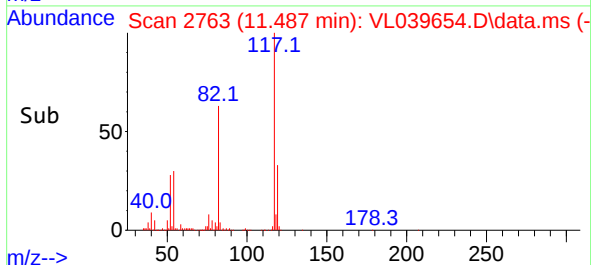
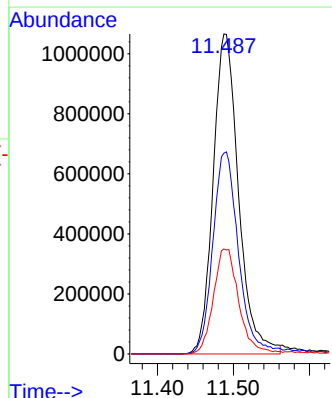
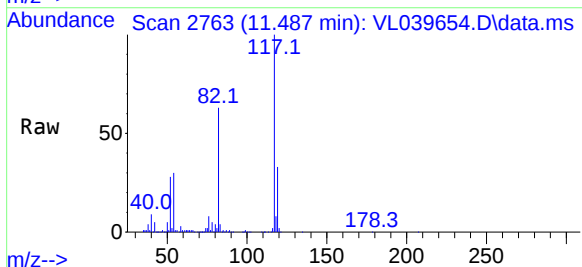
Tgt Ion: 117 Resp: 2471344

Ion Ratio Lower Upper

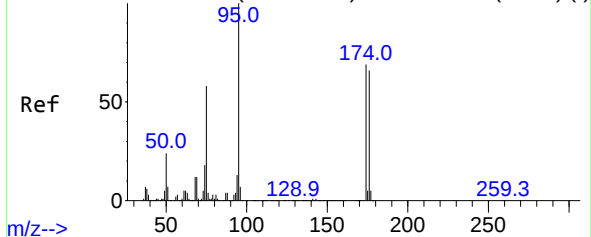
117 100

82 65.7 50.8 76.2

119 33.5 24.1 36.1



Abundance Scan 3480 (13.776 min): VL039536.D (-3460) (-)

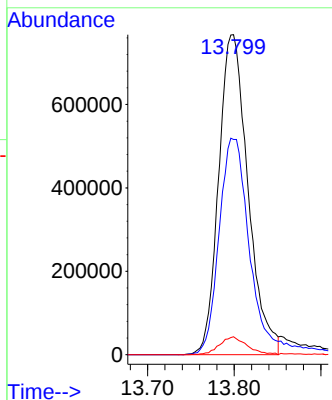
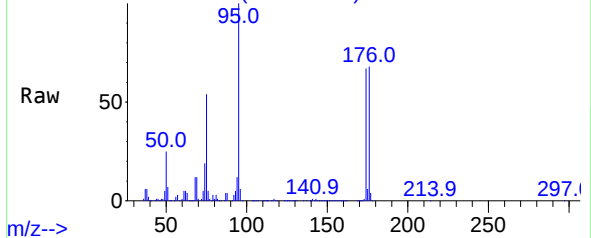


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.783 ppbv  
RT: 13.799 min Scan# 34  
Delta R.T. 0.023 min  
Lab File: VL039654.D  
Acq: 22 Sep 2022 3:35

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 95 Resp: 1804857  
Ion Ratio Lower Upper  
95 100  
174 74.6 55.9 83.9  
175 5.5 4.2 6.4

Abundance Scan 3482 (13.799 min): VL039654.D\data.ms



Abundance Scan 3482 (13.799 min): VL039654.D\data.ms (-)

