

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042968.D  
 Acq On : 22 Sep 2025 21:35  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

Quant Time: Sep 23 02:56:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 23 02:39:16 2025  
 Response via : Initial Calibration

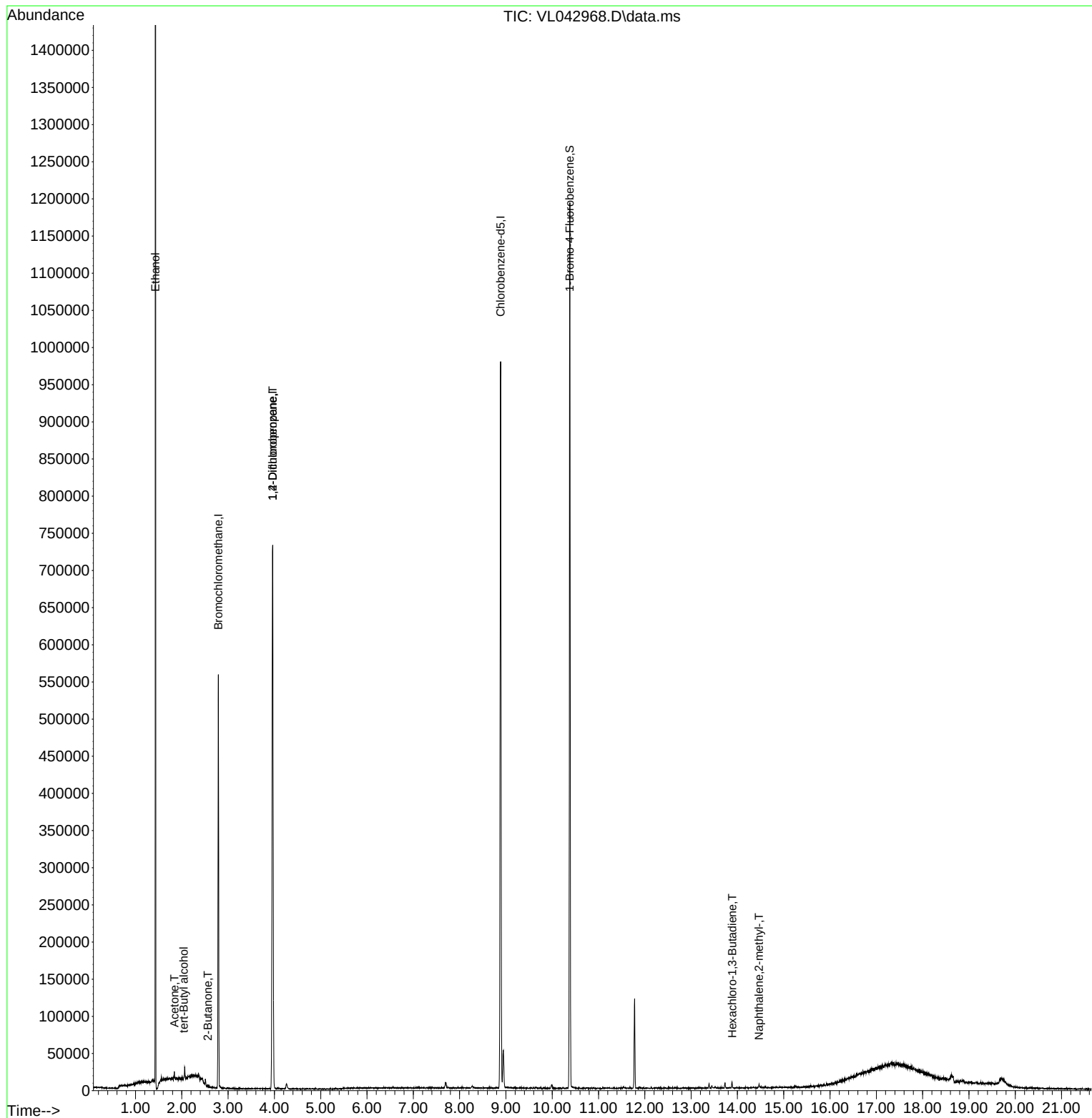
| Compound                     | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                        |        |       |          |           |            |          |
| Internal Standards           |        |       |          |           |            |          |
| 1) Bromochloromethane        | 2.790  | 49    | 153661   | 10.000    | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene      | 3.962  | 114   | 460894   | 10.000    | ppbv       | 0.00     |
| 55) Chlorobenzene-d5         | 8.885  | 117   | 411673   | 10.000    | ppbv       | 0.00     |
| System Monitoring Compounds  |        |       |          |           |            |          |
| 68) 1-Bromo-4-Fluorobenzene  | 10.380 | 95    | 308365   | 10.035    | ppbv       | 0.00     |
| Spiked Amount                | 10.000 | Range | 65 - 135 | Recovery  | = 100.300% |          |
| Target Compounds             |        |       |          |           |            |          |
|                              |        |       |          |           | Qvalue     |          |
| 13) Ethanol                  | 1.431  | 45    | 17638    | 16.225    | ppbv       | 97       |
| 15) Acetone                  | 1.839  | 43    | 3725     | 0.186     | ppbv #     | 62       |
| 17) tert-Butyl alcohol       | 2.046  | 59    | 809      | 0.037     | ppbv #     | 9        |
| 20) Methylene Chloride       | 2.065  | 84    | 2522     | Below Cal | #          | 65       |
| 34) 2-Butanone               | 2.564  | 43    | 1682     | 0.052     | ppbv       | 91       |
| 39) 1,2-Dichloropropane      | 3.962  | 63    | 114296   | 7.234     | ppbv #     | 24       |
| 78) Hexachloro-1,3-Butadiene | 13.885 | 225   | 856      | 0.031     | ppbv       | 94       |
| 80) Naphthalene,2-methyl-    | 14.465 | 142   | 2240     | 0.137     | ppbv       | 99       |
| -----                        |        |       |          |           |            |          |

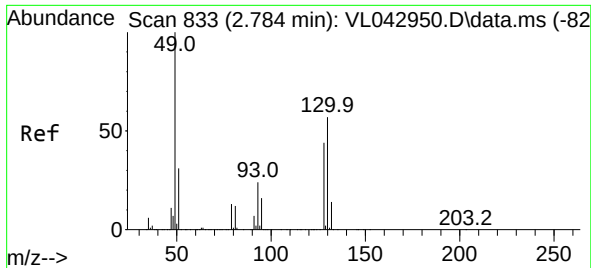
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VIBLK

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

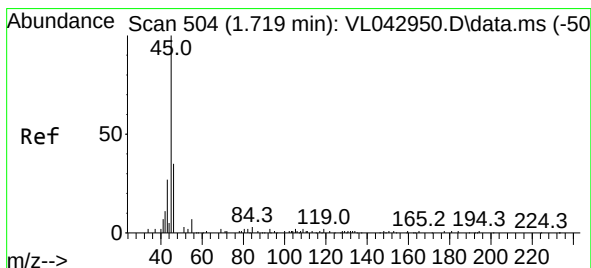
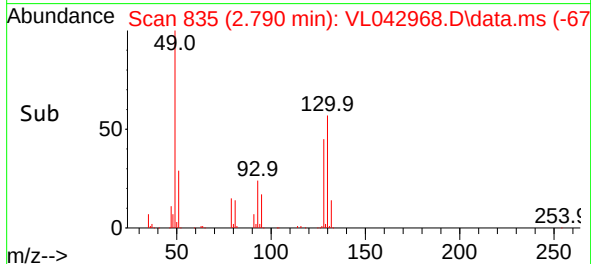
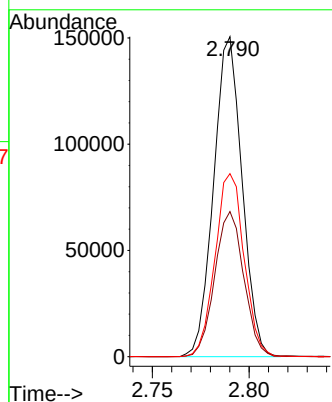
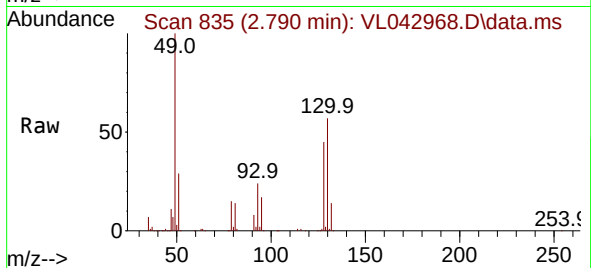




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL042968.D  
Acq: 22 Sep 2025 21:35

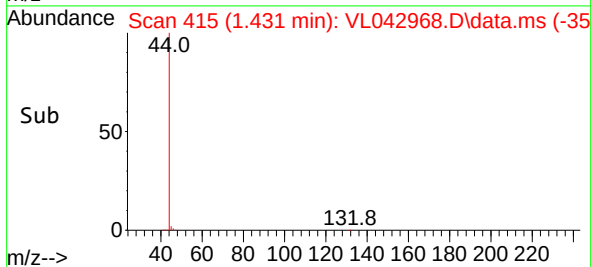
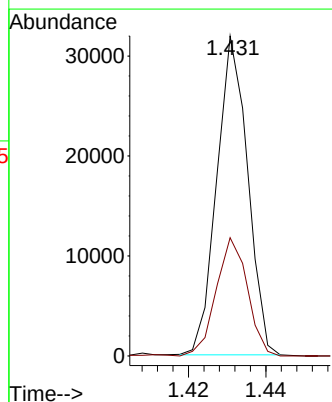
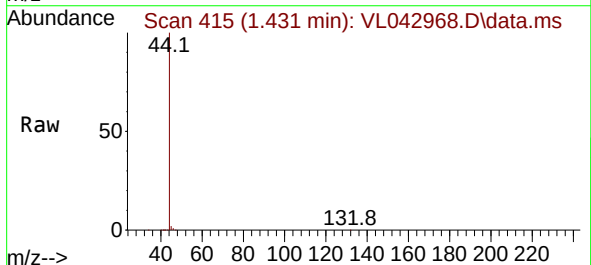
Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

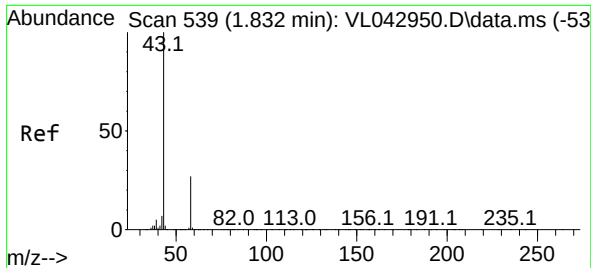
Tgt Ion: 49 Resp: 153661  
Ion Ratio Lower Upper  
49 100  
128 46.4 22.9 68.8  
130 58.7 29.1 87.3



#13  
Ethanol  
Concen: 16.225 ppbv  
RT: 1.431 min Scan# 415  
Delta R.T. -0.288 min  
Lab File: VL042968.D  
Acq: 22 Sep 2025 21:35

Tgt Ion: 45 Resp: 17638  
Ion Ratio Lower Upper  
45 100  
46 38.6 16.2 64.6





#15

Acetone

Concen: 0.186 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042968.D

Acq: 22 Sep 2025 21:35

Instrument :

MSVOA\_L

ClientSampleId :

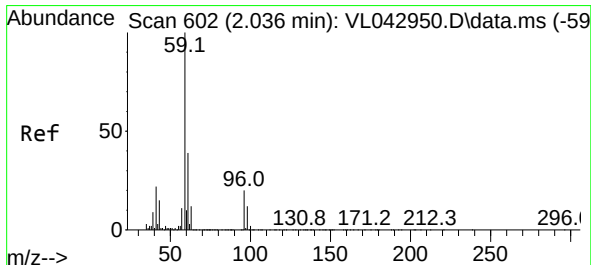
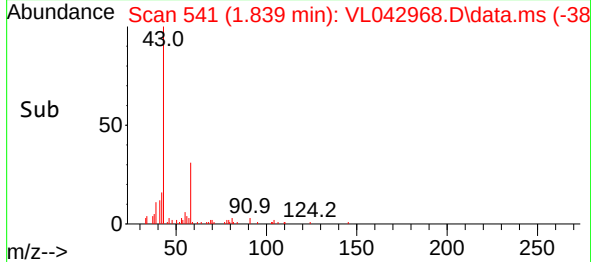
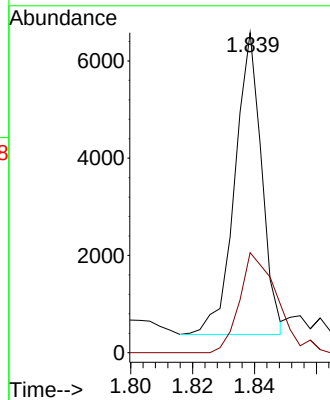
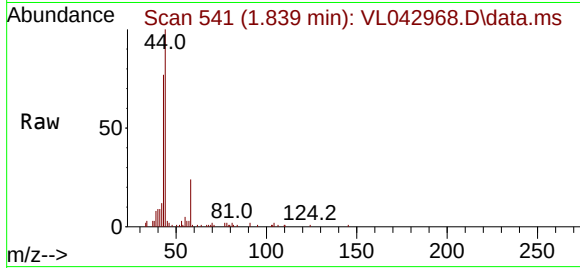
VIBLK

Tgt Ion: 43 Resp: 3725

Ion Ratio Lower Upper

43 100

58 48.1 22.3 33.5#



#17

tert-Butyl alcohol

Concen: 0.037 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.010 min

Lab File: VL042968.D

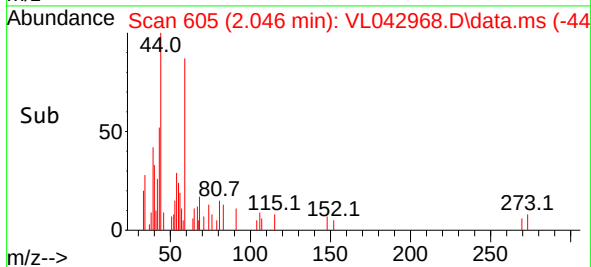
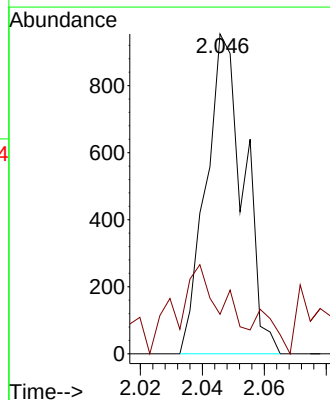
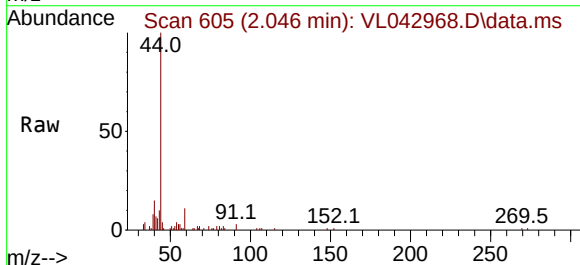
Acq: 22 Sep 2025 21:35

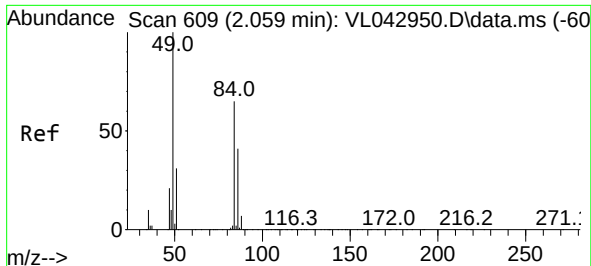
Tgt Ion: 59 Resp: 809

Ion Ratio Lower Upper

59 100

57 44.9 8.6 12.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042968.D

Acq: 22 Sep 2025 21:35

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

Tgt Ion: 84 Resp: 2522

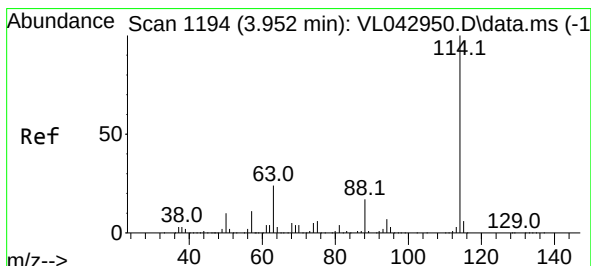
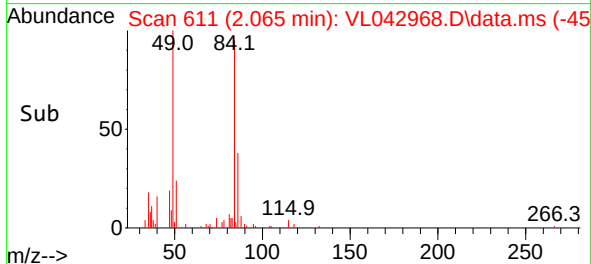
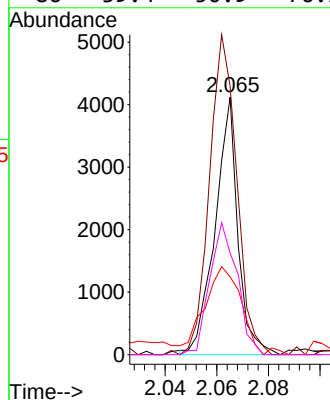
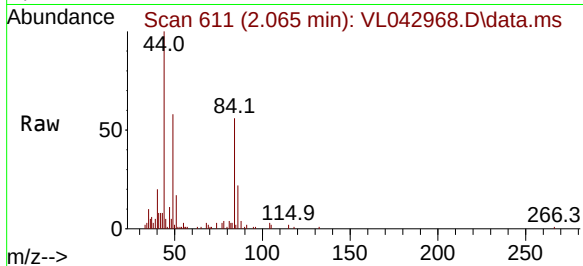
Ion Ratio Lower Upper

84 100

49 104.2 124.1 186.1#

51 30.0 39.8 59.8#

86 39.4 50.9 76.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.010 min

Lab File: VL042968.D

Acq: 22 Sep 2025 21:35

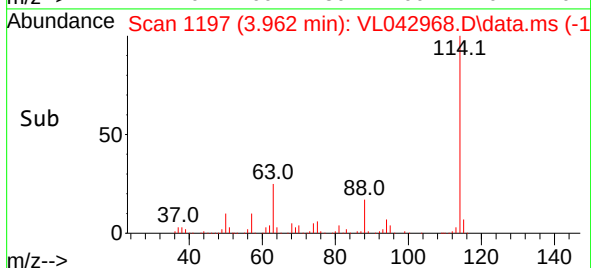
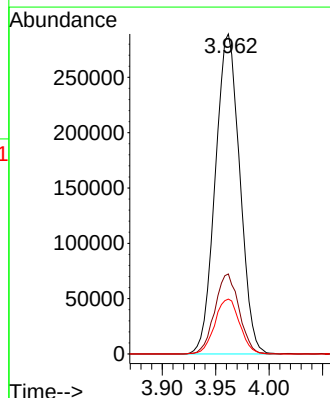
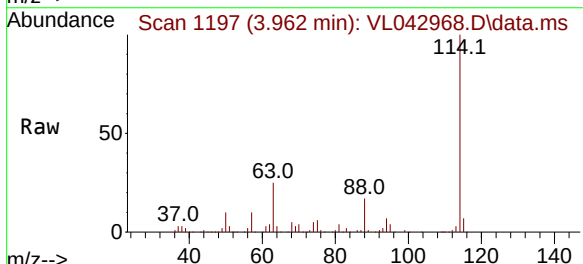
Tgt Ion: 114 Resp: 460894

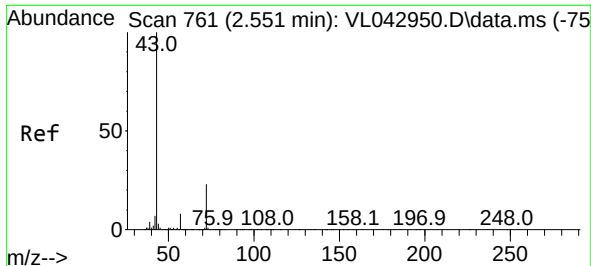
Ion Ratio Lower Upper

114 100

63 24.8 19.4 29.2

88 17.4 14.2 21.2

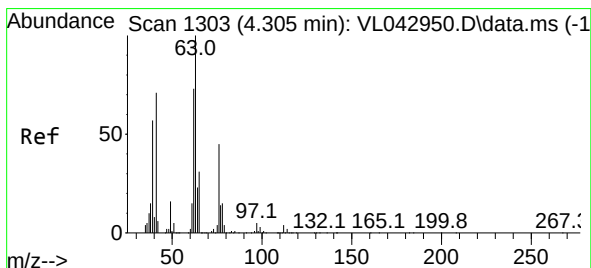
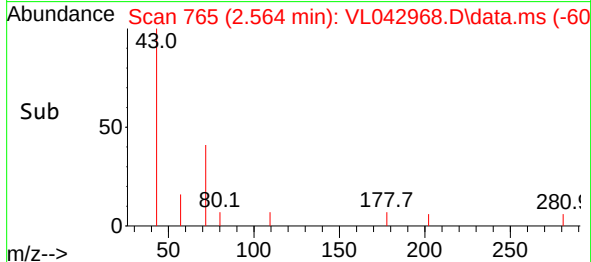
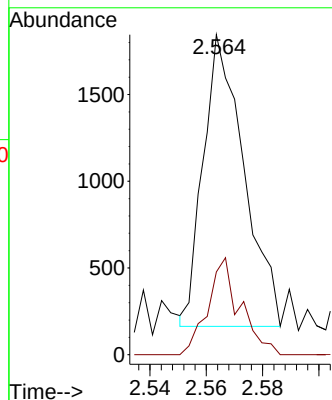
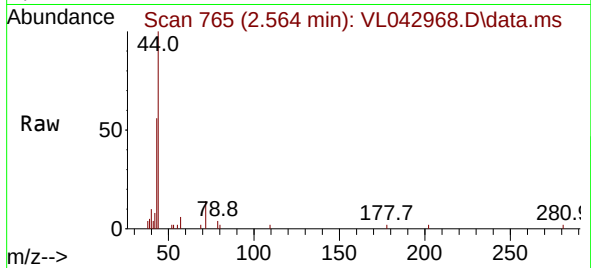




#34  
2-Butanone  
Concen: 0.052 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.013 min  
Lab File: VL042968.D  
Acq: 22 Sep 2025 21:35

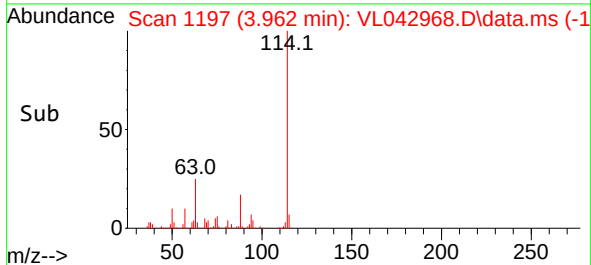
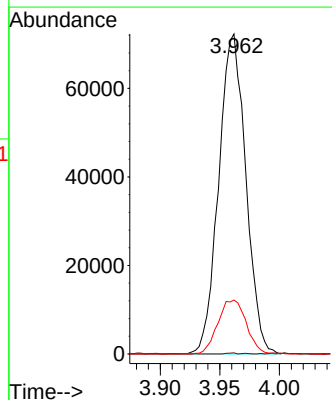
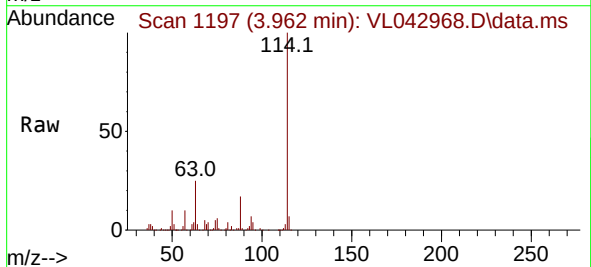
Instrument :  
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ClientSampleId :  
VIBLK

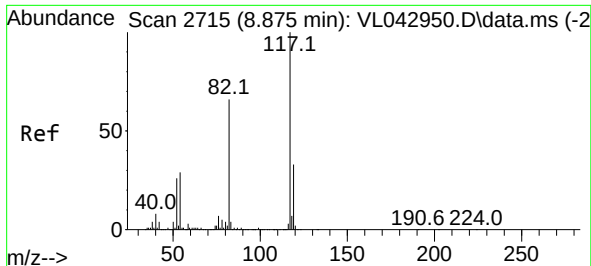
Tgt Ion: 43 Resp: 1682  
Ion Ratio Lower Upper  
43 100  
72 26.5 17.7 26.5



#39  
1,2-Dichloropropane  
Concen: 7.234 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.343 min  
Lab File: VL042968.D  
Acq: 22 Sep 2025 21:35

Tgt Ion: 63 Resp: 114296  
Ion Ratio Lower Upper  
63 100  
41 0.2 57.5 86.3#  
62 16.8 58.5 87.7#

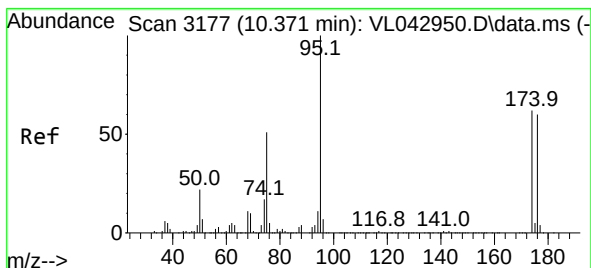
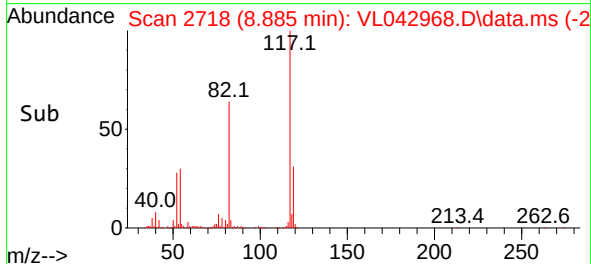
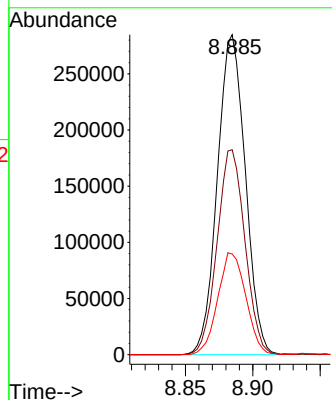
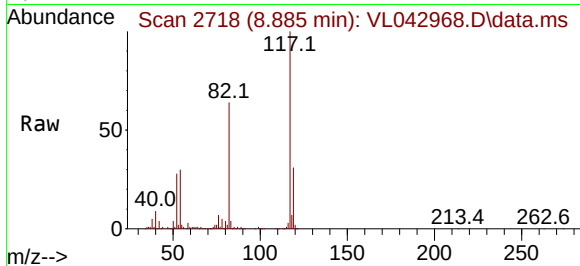




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042968.D  
Acq: 22 Sep 2025 21:35

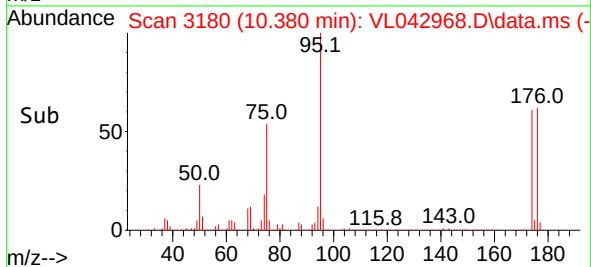
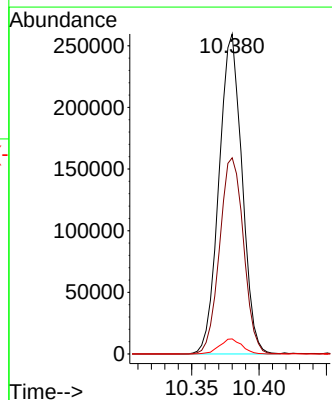
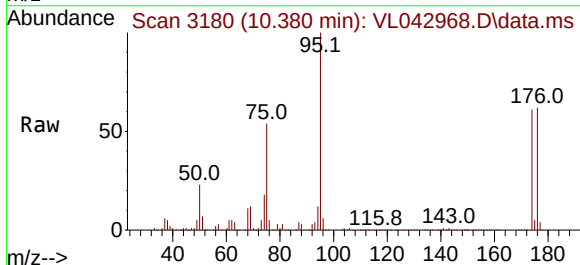
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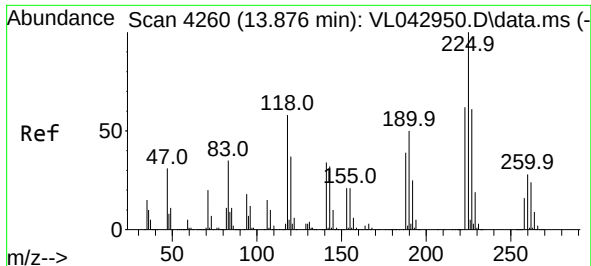
Tgt Ion:117 Resp: 411673  
Ion Ratio Lower Upper  
117 100  
82 63.9 52.8 79.2  
119 32.0 26.5 39.7



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.035 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.010 min  
Lab File: VL042968.D  
Acq: 22 Sep 2025 21:35

Tgt Ion: 95 Resp: 308365  
Ion Ratio Lower Upper  
95 100  
174 63.8 51.4 77.2  
175 4.6 4.0 6.0

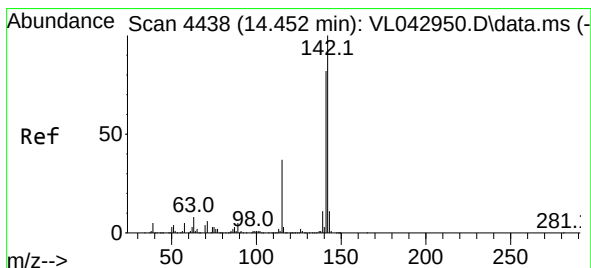
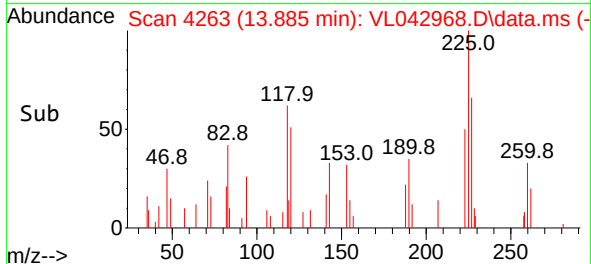
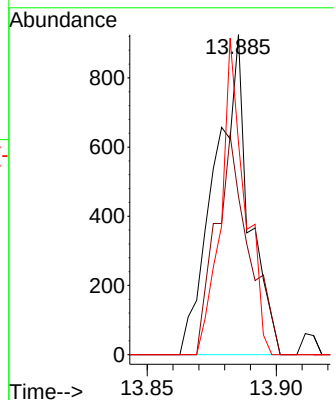
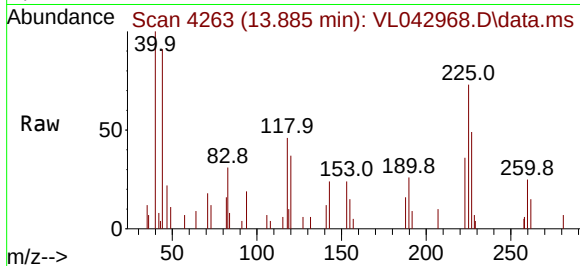




#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.031 ppbv  
 RT: 13.885 min Scan# 41  
 Delta R.T. 0.010 min  
 Lab File: VL042968.D  
 Acq: 22 Sep 2025 21:35

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 856   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 66.0  | 50.1  | 75.1  |
| 227      | 69.3  | 50.4  | 75.6  |



#80  
 Naphthalene,2-methyl-  
 Concen: 0.137 ppbv  
 RT: 14.465 min Scan# 4442  
 Delta R.T. 0.013 min  
 Lab File: VL042968.D  
 Acq: 22 Sep 2025 21:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2240  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 81.4  | 65.1  | 97.7  |
| 115      | 38.0  | 28.9  | 43.3  |

