

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL021524\  
 Data File : VL041075.D  
 Acq On : 16 Feb 2024 8:03  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

Quant Time: Feb 17 00:12:25 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL012324AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Sat Feb 17 00:11:10 2024  
 Response via : Initial Calibration

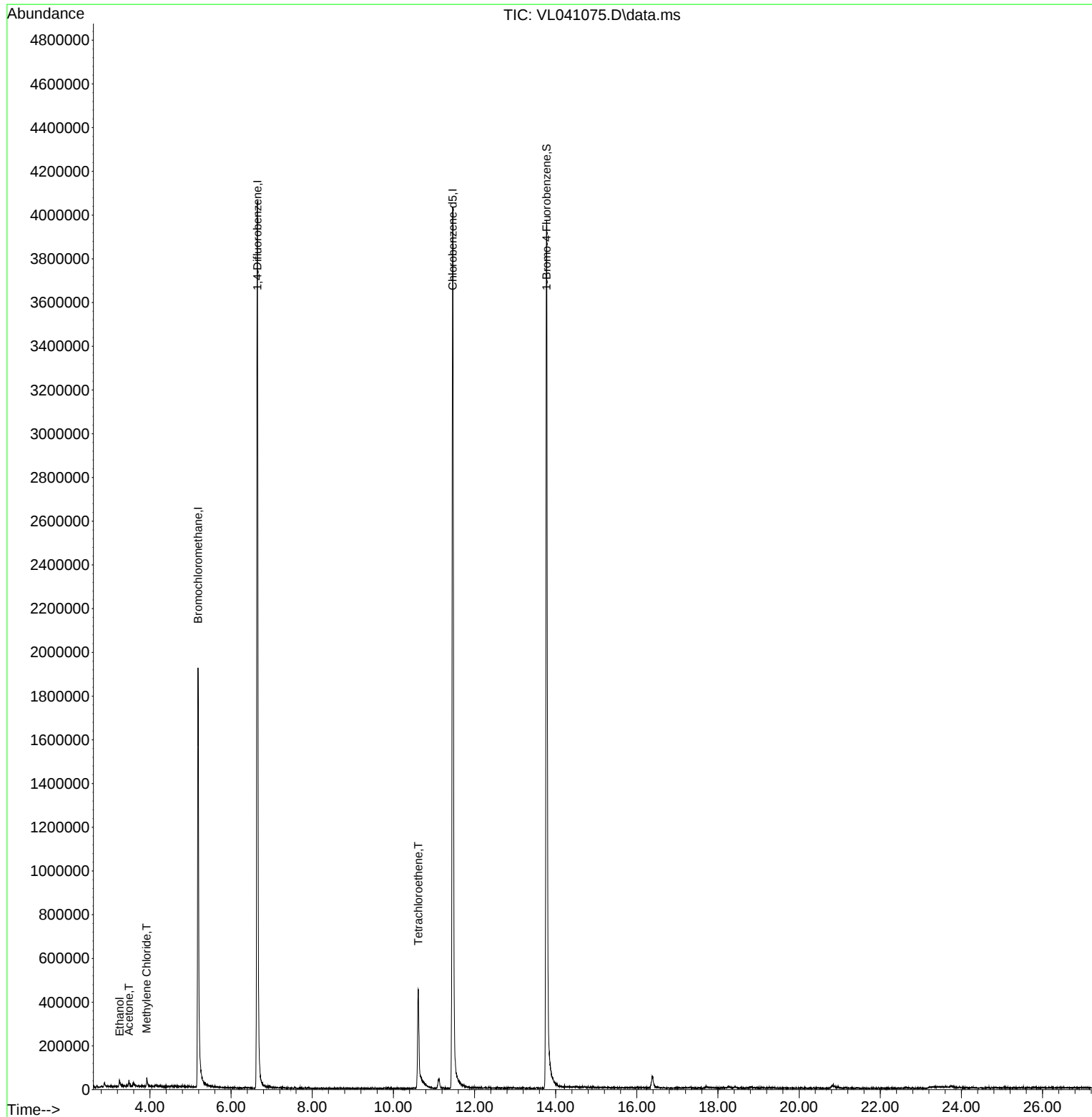
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.185  | 49    | 992948   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.648  | 114   | 3276287  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.465 | 117   | 2830737  | 10.000   | ppbv   | 0.01     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 2103124  | 9.836    | ppbv   | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.400%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 13) Ethanol                 | 3.253  | 45    | 21798    | 1.670    | ppbv   | 76       |
| 15) Acetone                 | 3.481  | 43    | 22954    | 0.181    | ppbv # | 77       |
| 20) Methylene Chloride      | 3.922  | 84    | 11394    | 0.233    | ppbv   | 94       |
| 52) Tetrachloroethene       | 10.616 | 164   | 115522   | 1.286    | ppbv   | 94       |
| -----                       |        |       |          |          |        |          |

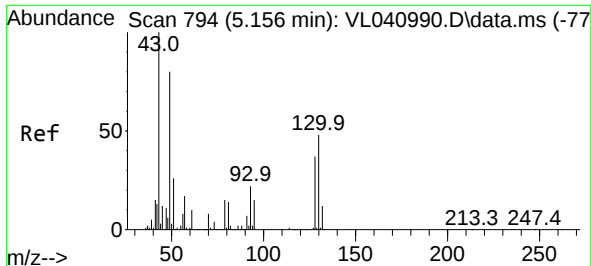
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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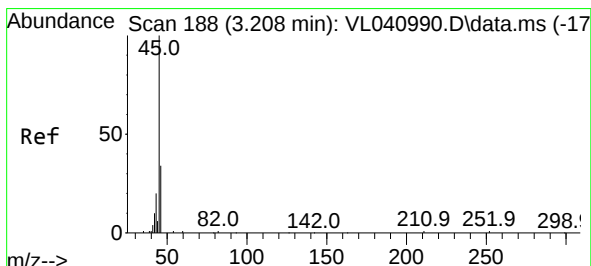
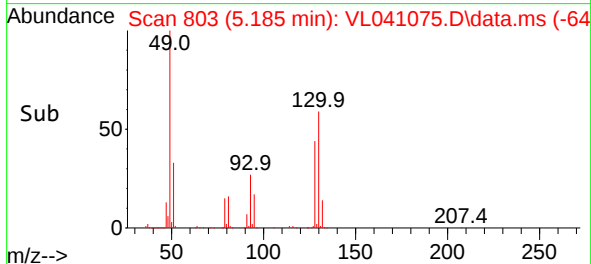
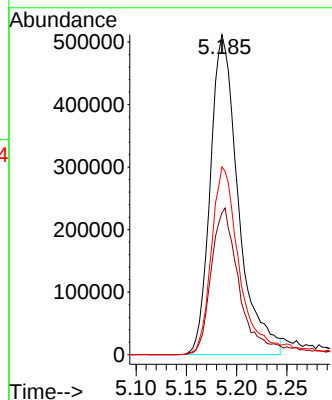
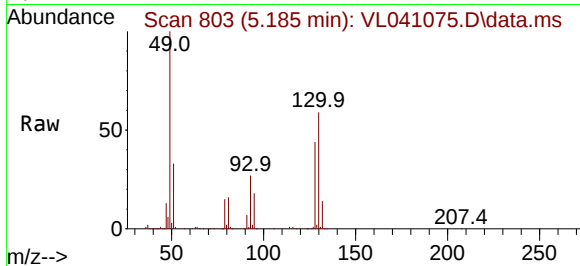




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 80  
Delta R.T. 0.009 min  
Lab File: VL041075.D  
Acq: 16 Feb 2024 8:03

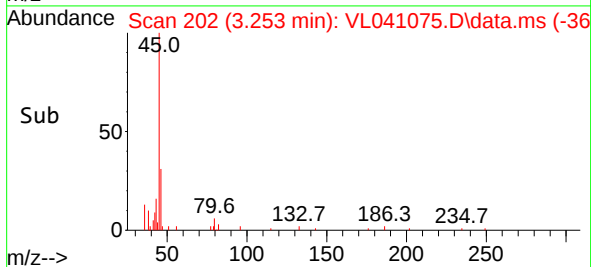
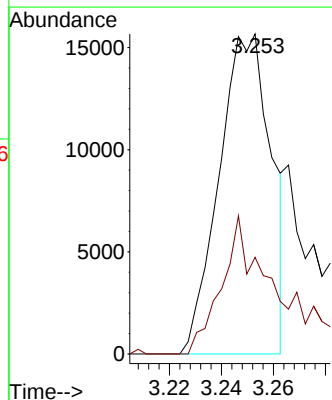
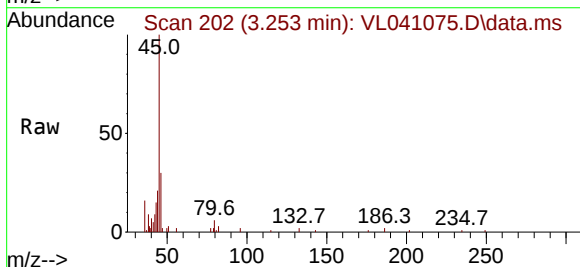
Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

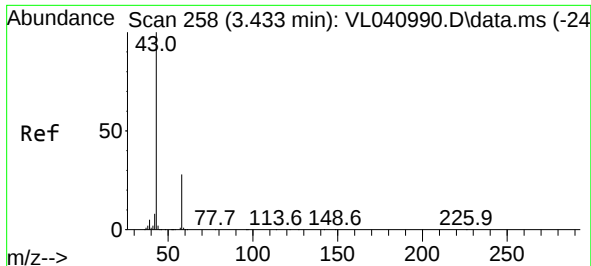
Tgt Ion: 49 Resp: 992948  
Ion Ratio Lower Upper  
49 100  
128 48.8 23.9 71.7  
130 61.9 31.1 93.5



#13  
Ethanol  
Concen: 1.670 ppbv  
RT: 3.253 min Scan# 202  
Delta R.T. 0.035 min  
Lab File: VL041075.D  
Acq: 16 Feb 2024 8:03

Tgt Ion: 45 Resp: 21798  
Ion Ratio Lower Upper  
45 100  
46 55.4 16.2 64.8





#15

Acetone

Concen: 0.181 ppbv

RT: 3.481 min Scan# 21

Delta R.T. 0.035 min

Lab File: VL041075.D

Acq: 16 Feb 2024 8:03

Instrument :

MSVOA\_L

ClientSampleId :

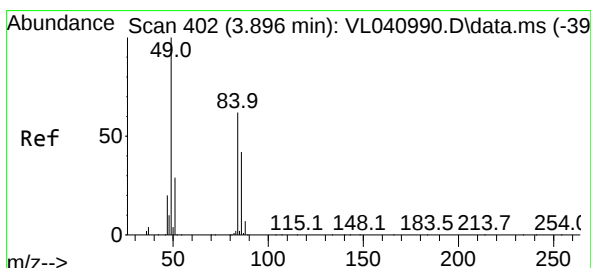
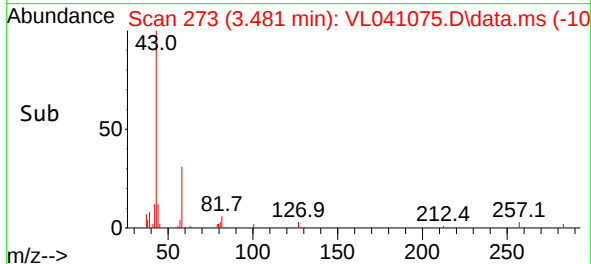
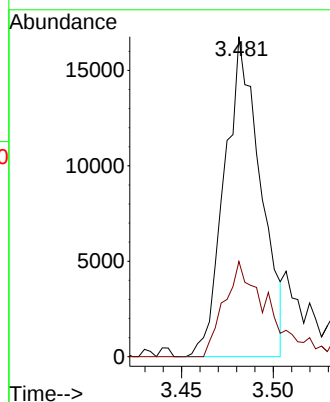
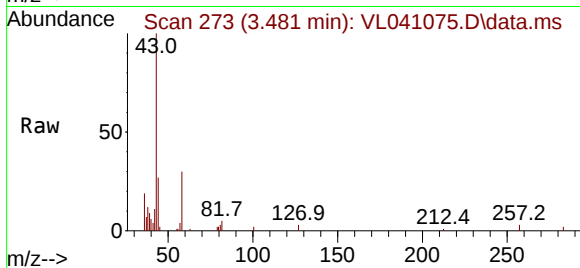
VIBLK

Tgt Ion: 43 Resp: 22954

Ion Ratio Lower Upper

43 100

58 39.5 22.2 33.2#



#20

Methylene Chloride

Concen: 0.233 ppbv

RT: 3.922 min Scan# 410

Delta R.T. 0.010 min

Lab File: VL041075.D

Acq: 16 Feb 2024 8:03

Tgt Ion: 84 Resp: 11394

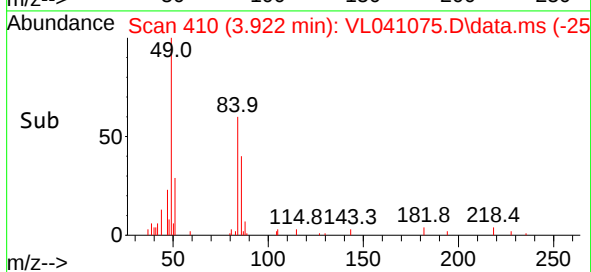
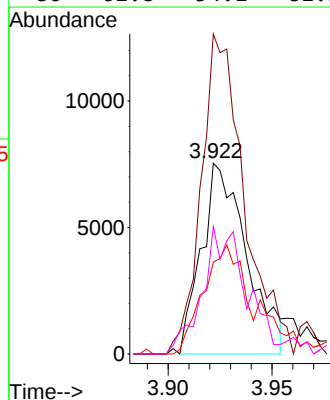
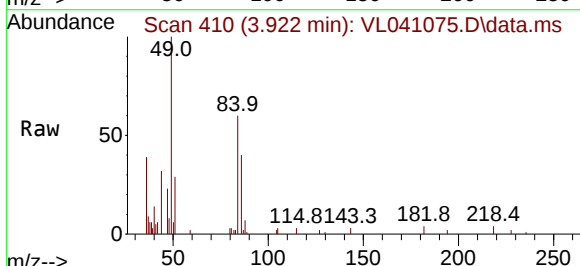
Ion Ratio Lower Upper

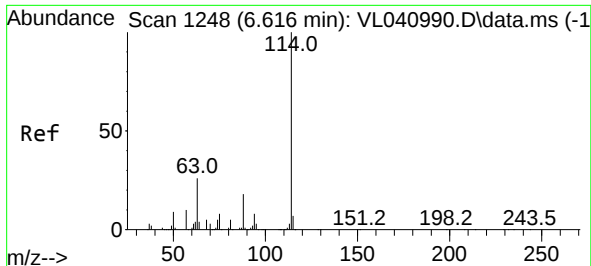
84 100

49 150.8 128.1 192.1

51 45.7 36.5 54.7

86 61.8 54.1 81.1

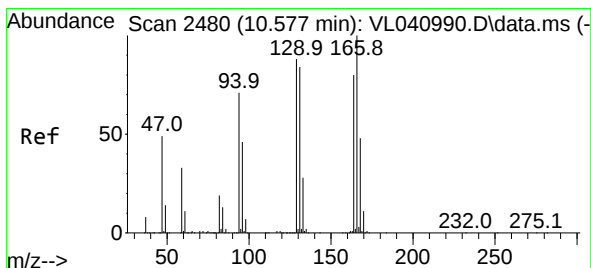
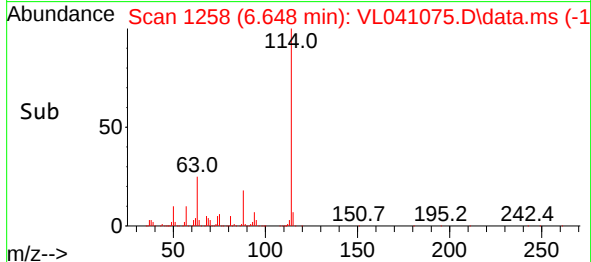
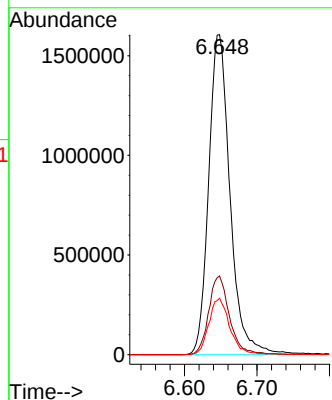
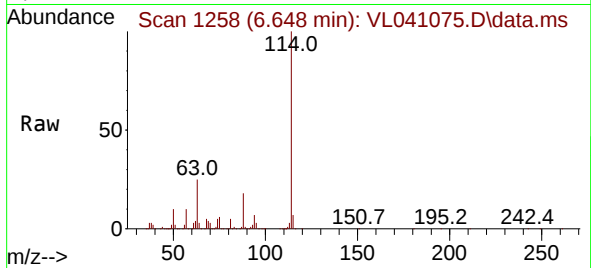




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.648 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: VL041075.D  
Acq: 16 Feb 2024 8:03

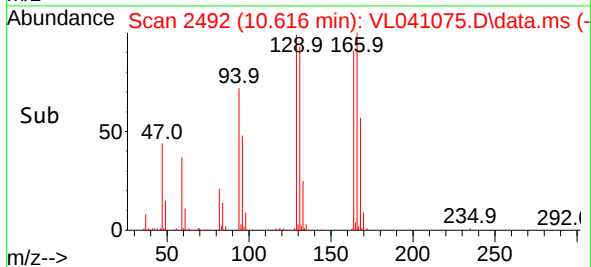
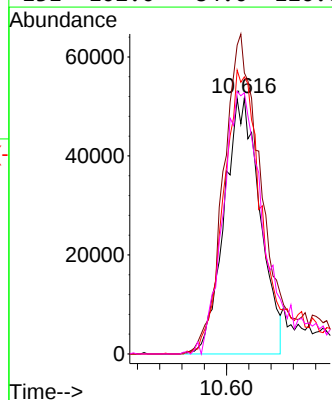
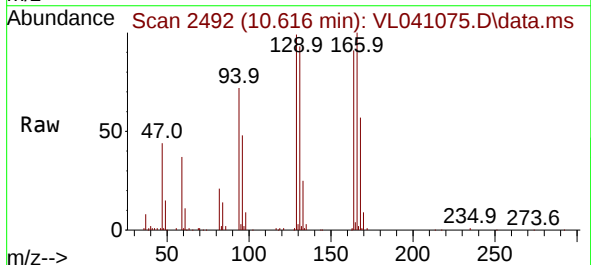
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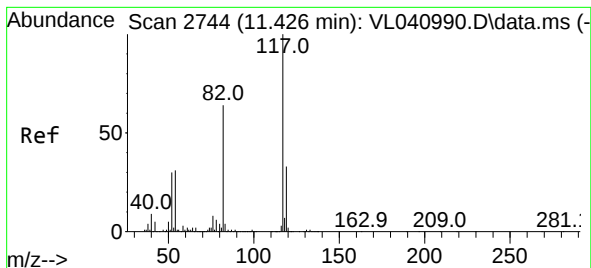
Tgt Ion:114 Resp: 3276287  
Ion Ratio Lower Upper  
114 100  
63 24.2 20.8 31.2  
88 17.6 14.3 21.5



#52  
Tetrachloroethene  
Concen: 1.286 ppbv  
RT: 10.616 min Scan# 2492  
Delta R.T. 0.016 min  
Lab File: VL041075.D  
Acq: 16 Feb 2024 8:03

Tgt Ion:164 Resp: 115522  
Ion Ratio Lower Upper  
164 100  
166 109.8 100.2 150.2  
129 108.2 87.9 131.9  
131 102.0 84.0 126.0

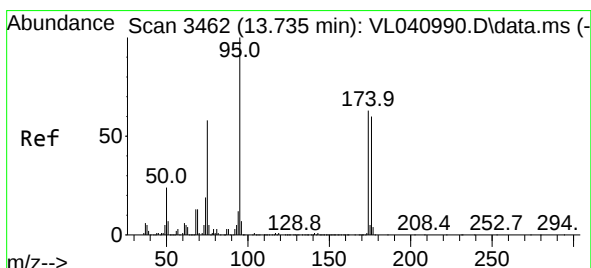
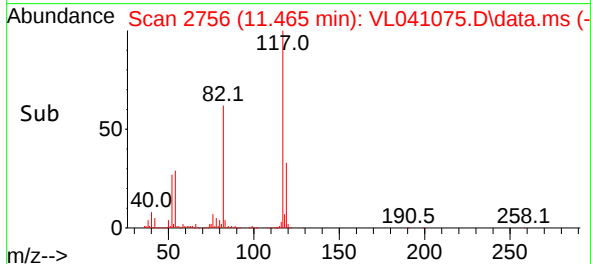
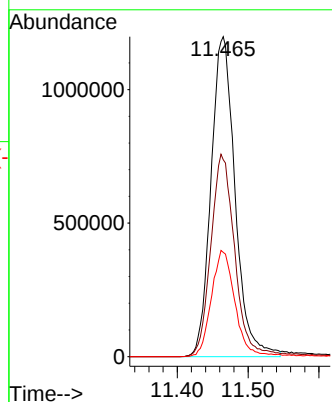
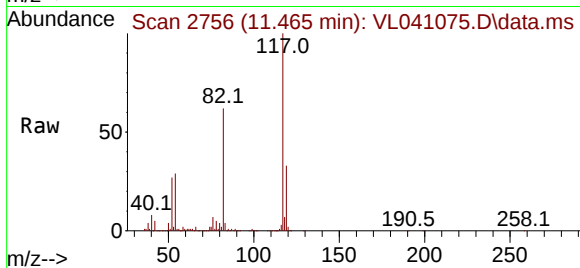




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.465 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL041075.D  
Acq: 16 Feb 2024 8:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

Tgt Ion:117 Resp: 2830737  
Ion Ratio Lower Upper  
117 100  
82 63.8 51.7 77.5  
119 33.0 23.8 35.6



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.836 ppbv  
RT: 13.777 min Scan# 3475  
Delta R.T. 0.016 min  
Lab File: VL041075.D  
Acq: 16 Feb 2024 8:03

Tgt Ion: 95 Resp: 2103124  
Ion Ratio Lower Upper  
95 100  
174 64.6 49.1 73.7  
175 4.8 3.7 5.5

