

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072623\  
 Data File : VL040561.D  
 Acq On : 27 Jul 2023 4:49  
 Operator : SY/MD  
 Sample : 03572-13 0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 27 05:41:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL071023AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Jul 27 04:45:44 2023  
 Response via : Initial Calibration

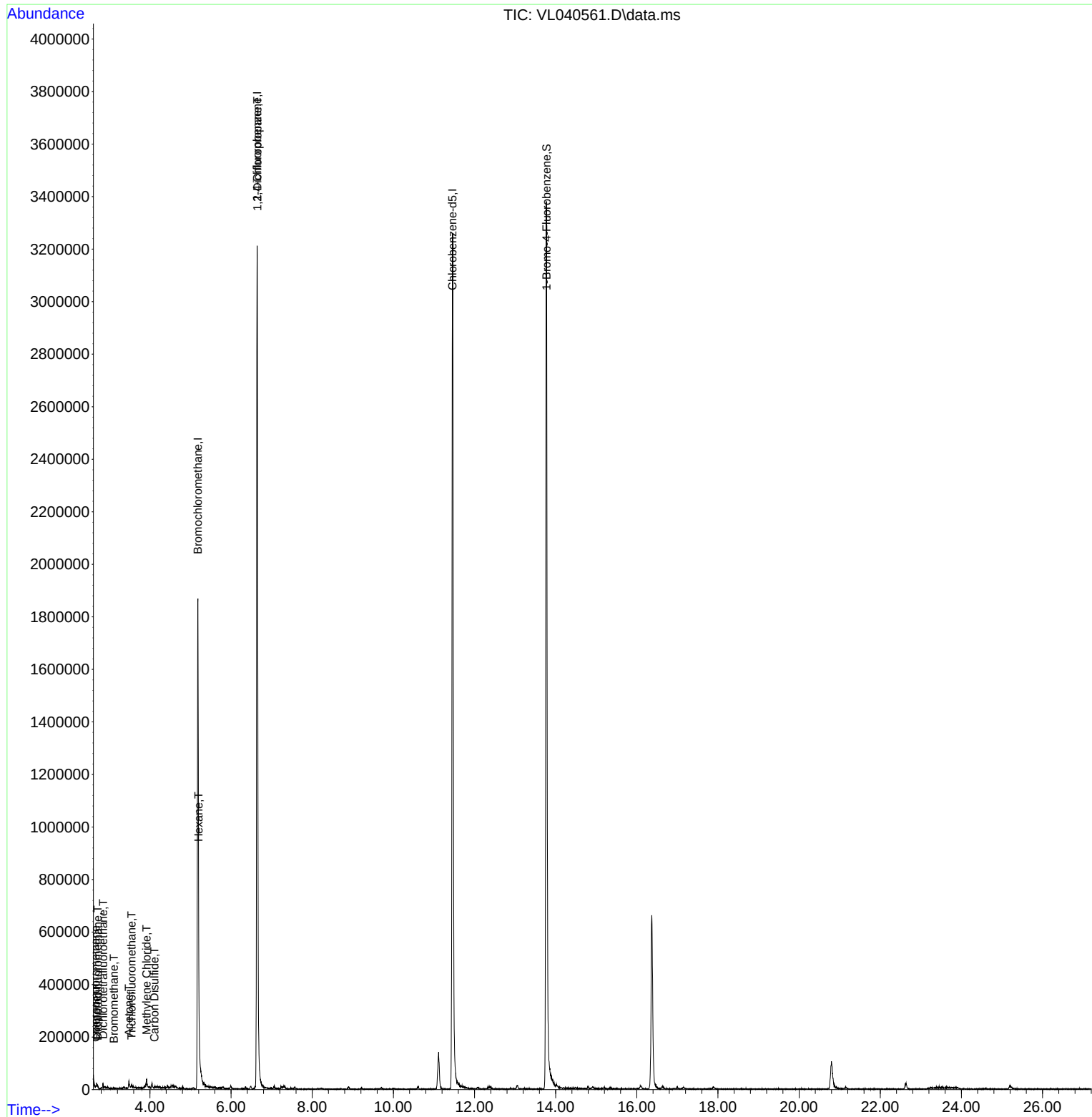
| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 5.182  | 49    | 912397   | 10.000   | ppbv       | -0.02    |
| 33) 1,4-Difluorobenzene      | 6.642  | 114   | 2282218  | 10.000   | ppbv       | -0.02    |
| 55) Chlorobenzene-d5         | 11.458 | 117   | 2008066  | 10.000   | ppbv       | -0.02    |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene  | 13.773 | 95    | 1608348  | 10.120   | ppbv       | 0.00     |
| Spiked Amount                | 10.000 | Range | 65 - 135 | Recovery | = 101.200% |          |
| Target Compounds             |        |       |          |          |            |          |
|                              |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane   | 2.710  | 85    | 7744     | 0.042    | ppbv #     | 86       |
| 3) Chlorodifluoromethane     | 2.661  | 51    | 6219     | 0.043    | ppbv       | 96       |
| 6) Bromomethane              | 3.111  | 94    | 1001     | 0.039    | ppbv #     | 75       |
| 8) Dichlorotetrafluoroethane | 2.845  | 85    | 6337     | 0.042    | ppbv       | 94       |
| 9) Propene                   | 2.684  | 41    | 5390     | 0.109    | ppbv       | 92       |
| 11) Trichlorofluoromethane   | 3.549  | 101   | 7108     | 0.048    | ppbv       | 95       |
| 15) Acetone                  | 3.481  | 43    | 25735    | 0.245    | ppbv #     | 86       |
| 20) Methylene Chloride       | 3.922  | 84    | 10482    | 0.235    | ppbv       | 93       |
| 26) Hexane                   | 5.198  | 57    | 3432     | 0.037    | ppbv #     | 1        |
| 27) Carbon Disulfide         | 4.111  | 76    | 3998     | 0.037    | ppbv #     | 1        |
| 39) 1,2-Dichloropropane      | 6.645  | 63    | 597205   | 8.448    | ppbv #     | 28       |
| -----                        |        |       |          |          |            |          |

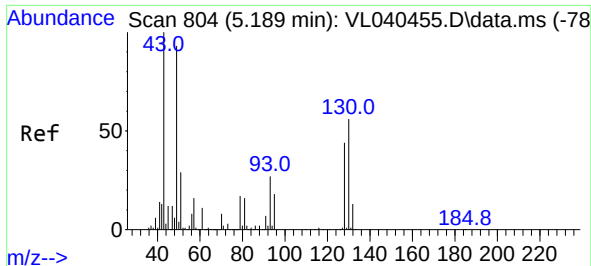
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Jul 27 04:45:44 2023  
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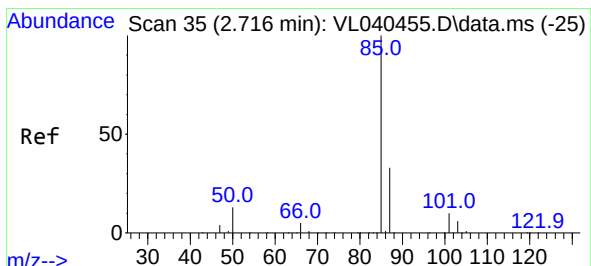
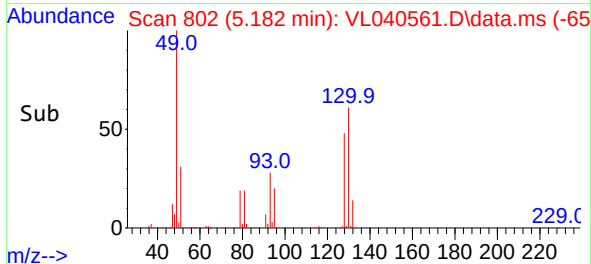
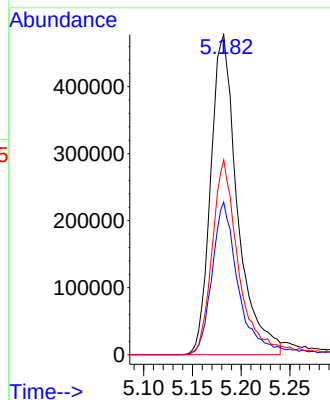
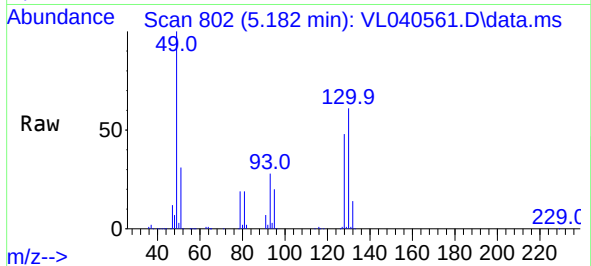




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.182 min Scan# 80  
Delta R.T. -0.020 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

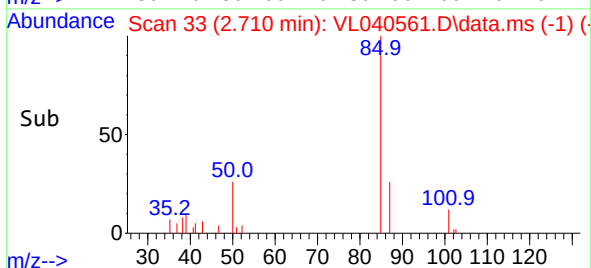
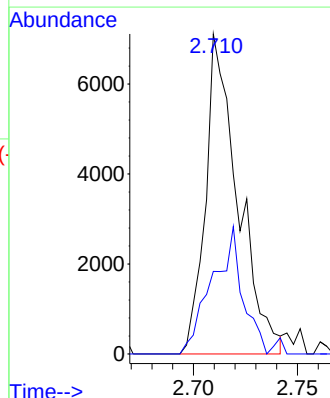
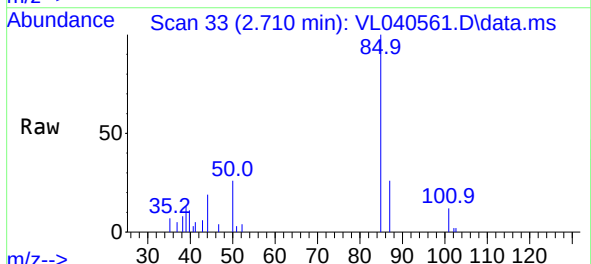
Instrument :  
MSVOA\_L  
ClientSampleId :

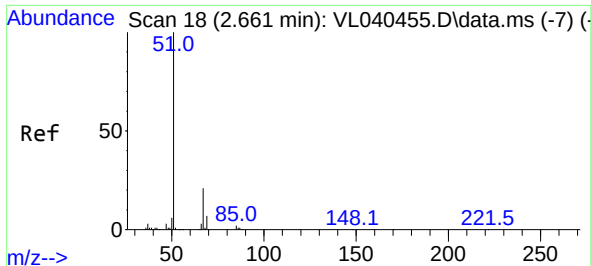
Tgt Ion: 49 Resp: 912397  
Ion Ratio Lower Upper  
49 100  
128 48.3 25.1 75.4  
130 63.1 31.6 94.7



#2  
Dichlorodifluoromethane  
Concen: 0.042 ppbv  
RT: 2.710 min Scan# 33  
Delta R.T. -0.029 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

Tgt Ion: 85 Resp: 7744  
Ion Ratio Lower Upper  
85 100  
87 25.8 26.8 40.2#

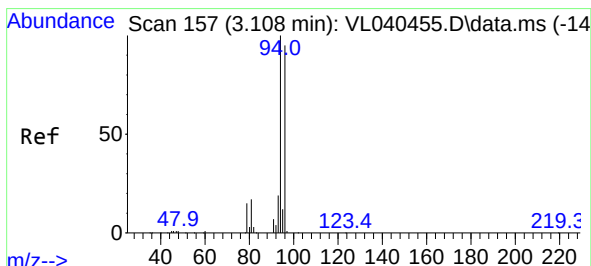
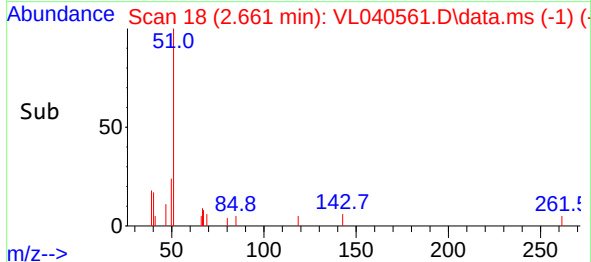
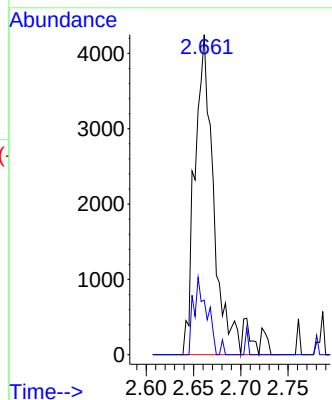
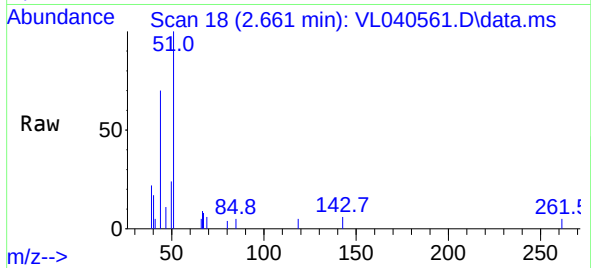




#3  
Chlorodifluoromethane  
Concen: 0.043 ppbv  
RT: 2.661 min Scan# 11  
Delta R.T. -0.023 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

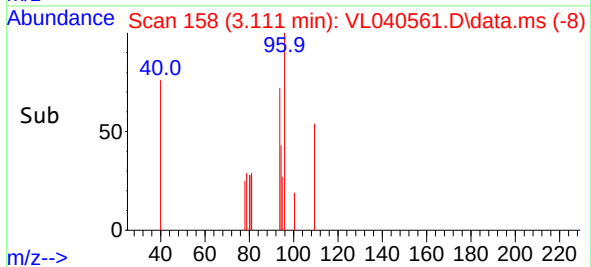
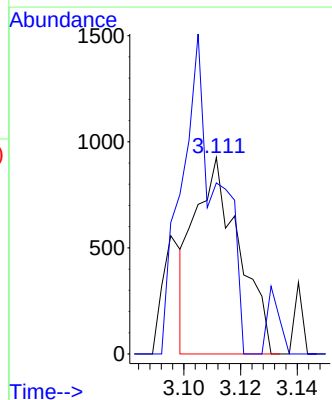
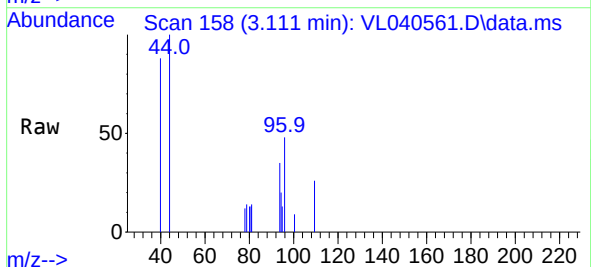
Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 51 Resp: 6219  
Ion Ratio Lower Upper  
51 100  
67 16.5 14.6 21.8

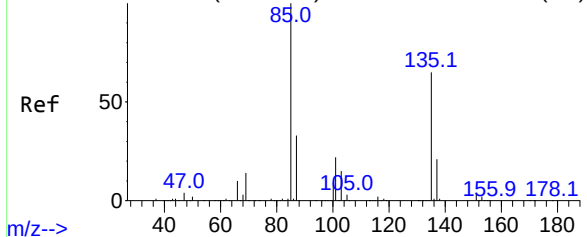


#6  
Bromomethane  
Concen: 0.039 ppbv  
RT: 3.111 min Scan# 158  
Delta R.T. -0.016 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

Tgt Ion: 94 Resp: 1001  
Ion Ratio Lower Upper  
94 100  
96 70.2 75.7 113.5#



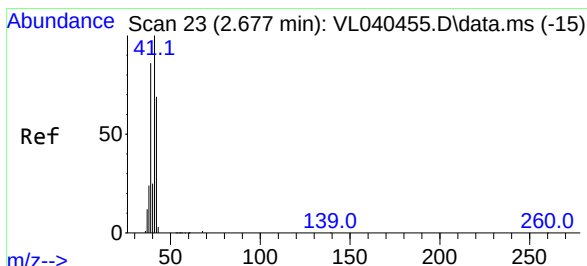
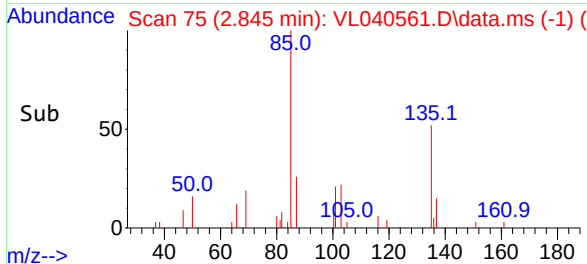
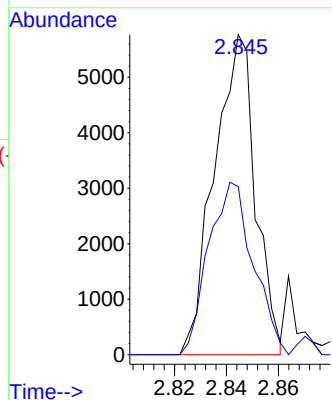
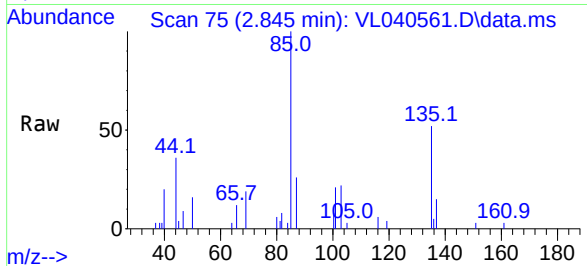
Abundance Scan 75 (2.845 min): VL040455.D\data.ms (-65)



#8  
Dichlorotetrafluoroethane  
Concen: 0.042 ppbv  
RT: 2.845 min Scan# 71  
Delta R.T. -0.023 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

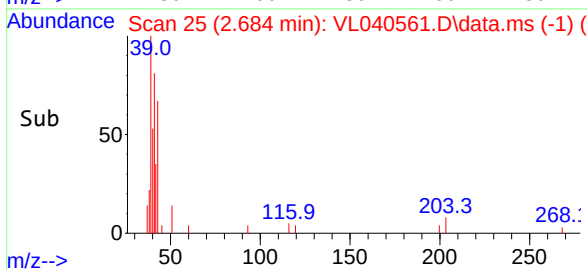
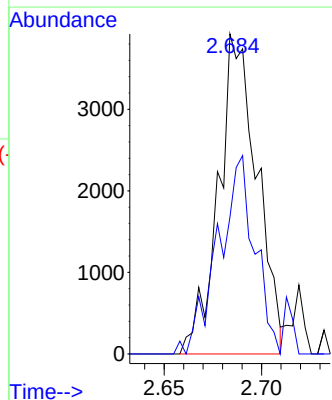
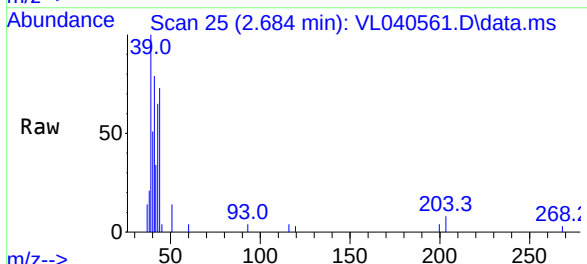
Instrument :  
MSVOA\_L  
ClientSampleId :

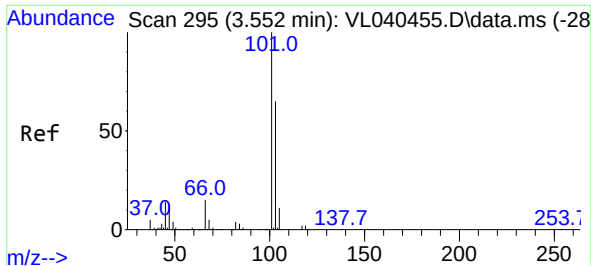
Tgt Ion: 85 Resp: 6337  
Ion Ratio Lower Upper  
85 100  
135 60.8 52.4 78.6



#9  
Propene  
Concen: 0.109 ppbv  
RT: 2.684 min Scan# 25  
Delta R.T. -0.019 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

Tgt Ion: 41 Resp: 5390  
Ion Ratio Lower Upper  
41 100  
42 62.5 55.0 82.6

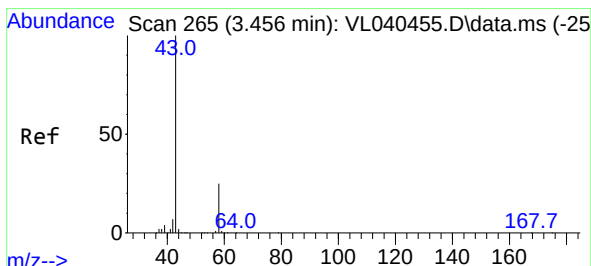
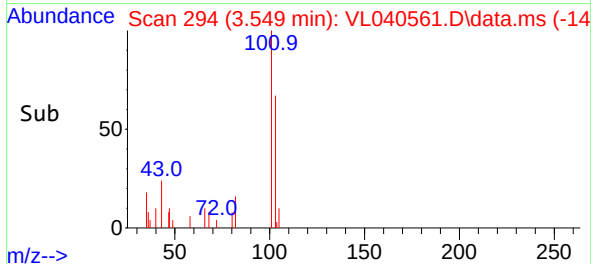
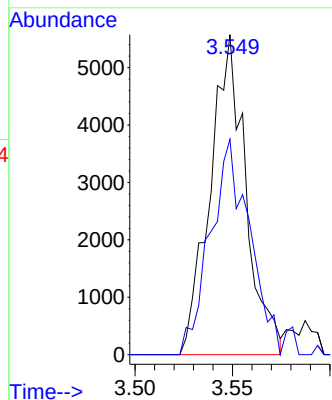
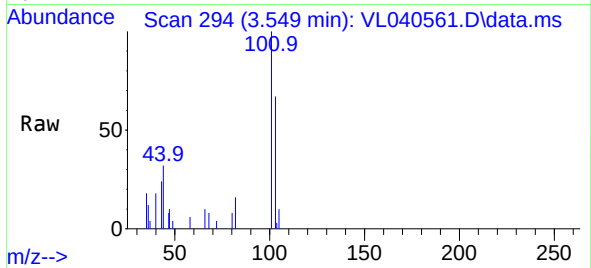




#11  
Trichlorofluoromethane  
Concen: 0.048 ppbv  
RT: 3.549 min Scan# 241  
Delta R.T. -0.023 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

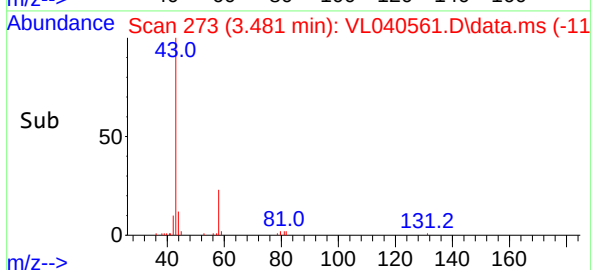
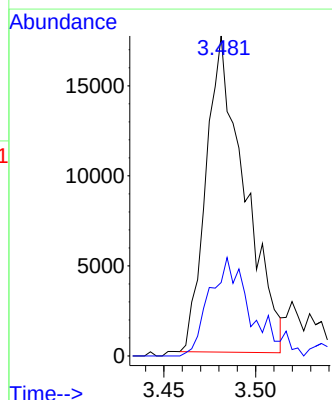
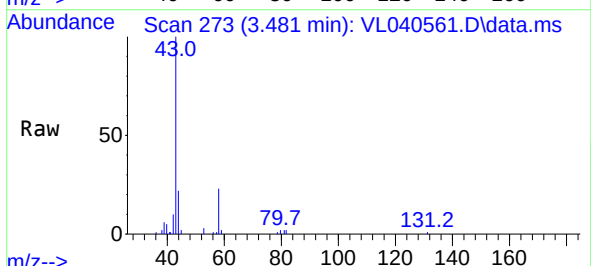
Instrument :  
MSVOA\_L  
ClientSampleId :

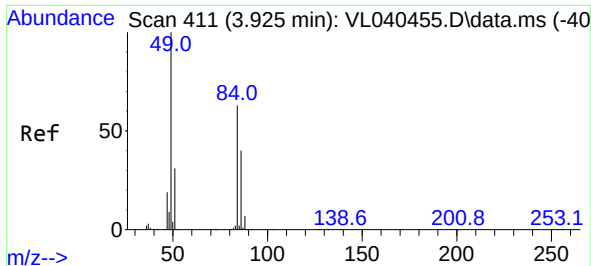
Tgt Ion:101 Resp: 7108  
Ion Ratio Lower Upper  
101 100  
103 70.4 53.4 80.0



#15  
Acetone  
Concen: 0.245 ppbv  
RT: 3.481 min Scan# 273  
Delta R.T. 0.006 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

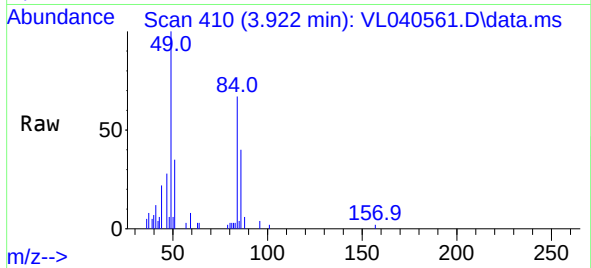
Tgt Ion: 43 Resp: 25735  
Ion Ratio Lower Upper  
43 100  
58 35.8 22.9 34.3#





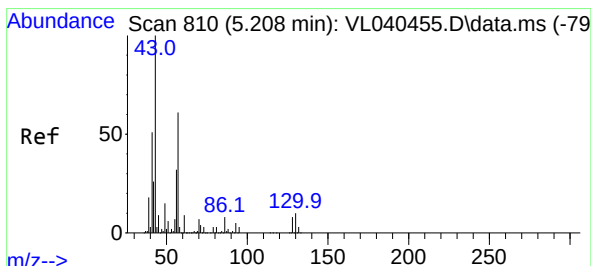
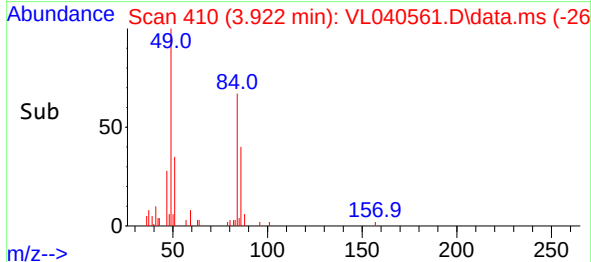
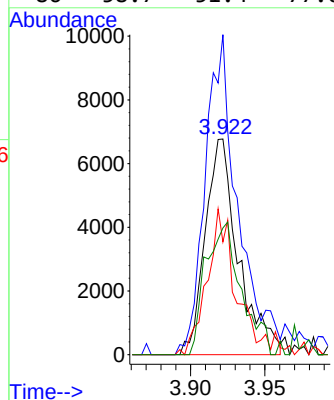
#20  
Methylene Chloride  
Concen: 0.235 ppbv  
RT: 3.922 min Scan# 411  
Delta R.T. -0.019 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 84 Resp: 10482

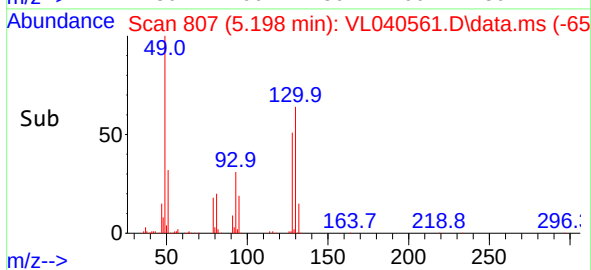
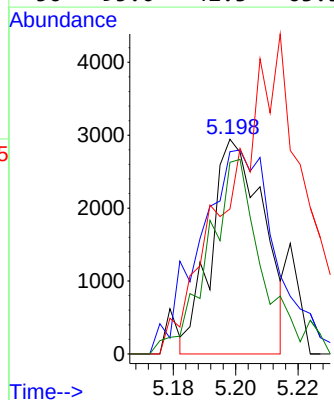
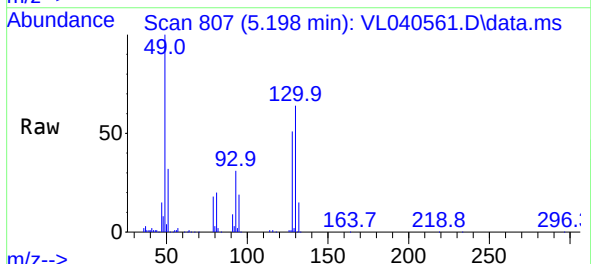
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 143.7 | 123.4 | 185.2 |
| 51  | 50.0  | 38.3  | 57.5  |
| 86  | 58.7  | 51.4  | 77.0  |

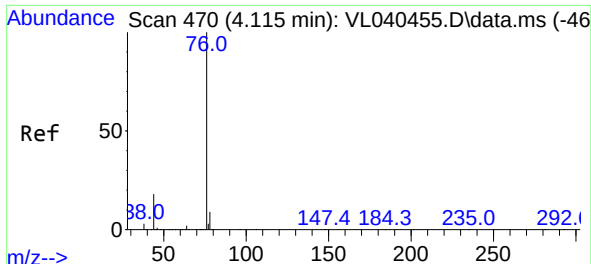


#26  
Hexane  
Concen: 0.037 ppbv  
RT: 5.198 min Scan# 807  
Delta R.T. -0.023 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

Tgt Ion: 57 Resp: 3432

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 141.6 | 69.5  | 104.3# |
| 43  | 0.0   | 177.1 | 265.7# |
| 56  | 95.0  | 42.3  | 63.5#  |

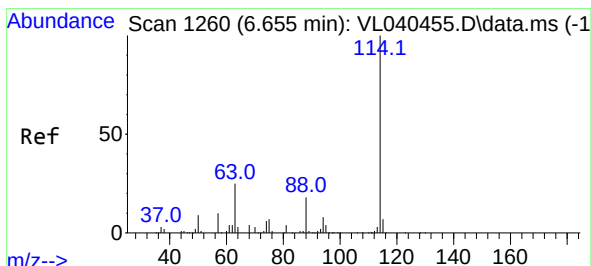
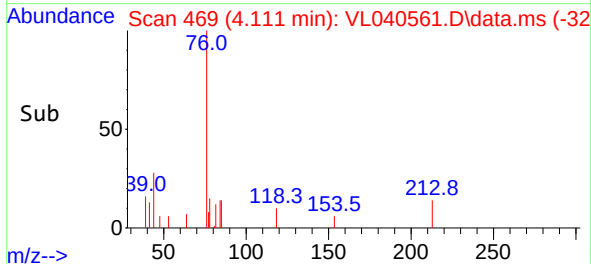
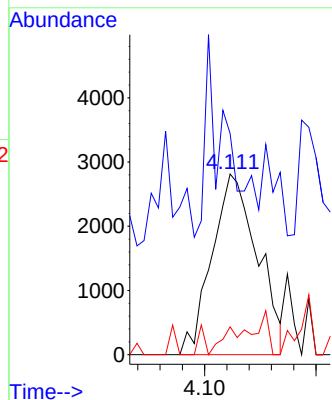
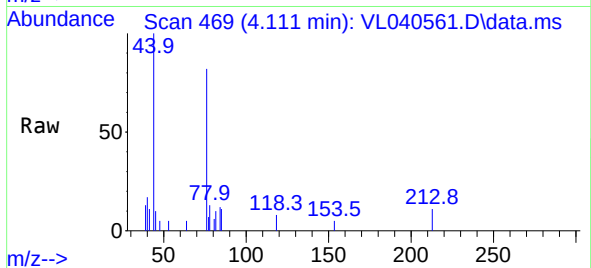




#27  
Carbon Disulfide  
Concen: 0.037 ppbv  
RT: 4.111 min Scan# 41  
Delta R.T. -0.019 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

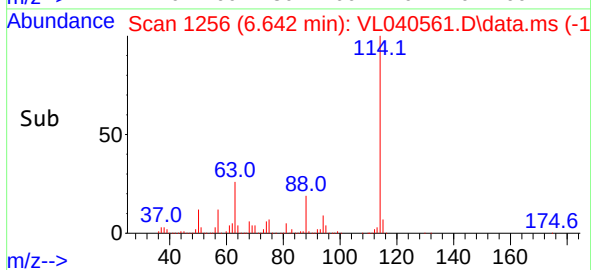
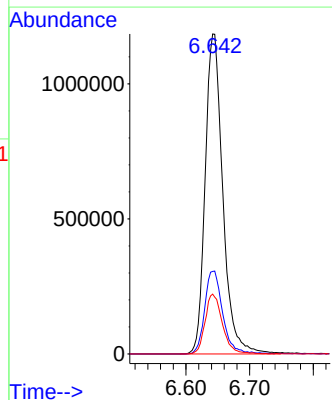
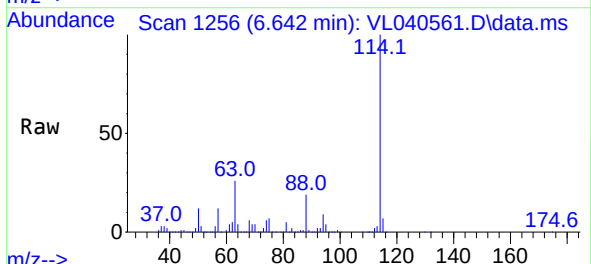
Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 76 Resp: 3998  
Ion Ratio Lower Upper  
76 100  
44 100.7 15.1 22.7#  
78 0.0 7.5 11.3#

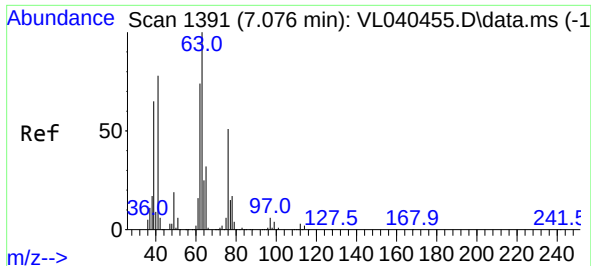


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.642 min Scan# 1256  
Delta R.T. -0.023 min  
Lab File: VL040561.D  
Acq: 27 Jul 2023 4:49

Tgt Ion: 114 Resp: 2282218  
Ion Ratio Lower Upper  
114 100  
63 26.7 19.6 29.4  
88 18.5 14.2 21.2







#39

1,2-Dichloropropane

Concen: 8.448 ppbv

RT: 6.645 min Scan# 1

Delta R.T. -0.437 min

Lab File: VL040561.D

Acq: 27 Jul 2023 4:49

Instrument :

MSVOA\_L

ClientSampleId :

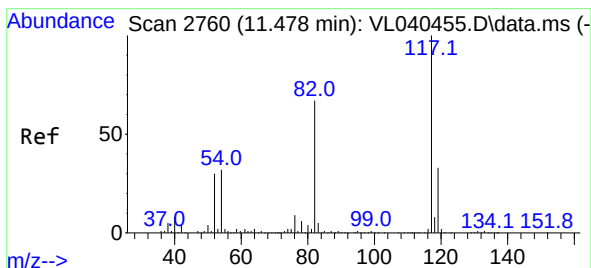
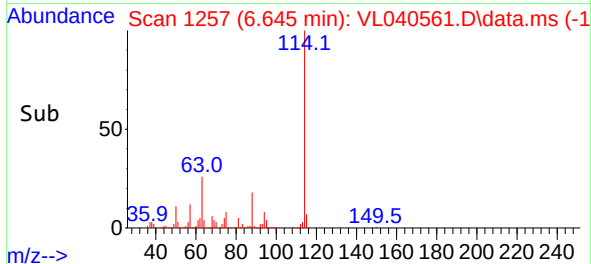
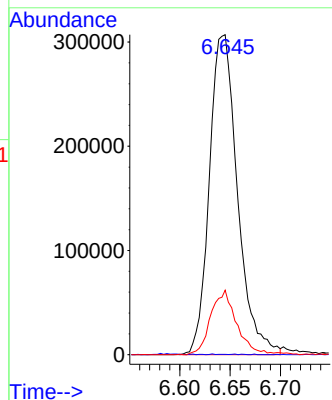
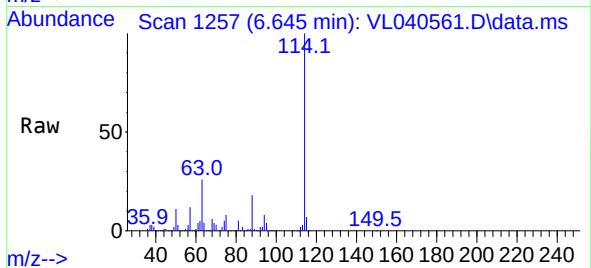
Tgt Ion: 63 Resp: 597205

Ion Ratio Lower Upper

63 100

41 0.1 54.3 81.5#

62 20.0 55.6 83.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. -0.019 min

Lab File: VL040561.D

Acq: 27 Jul 2023 4:49

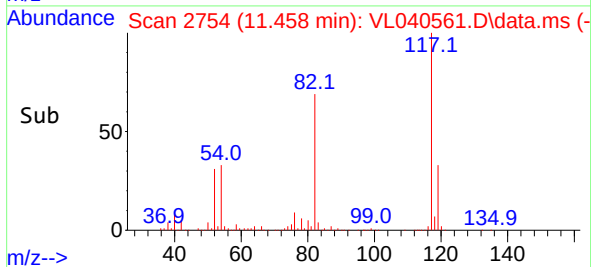
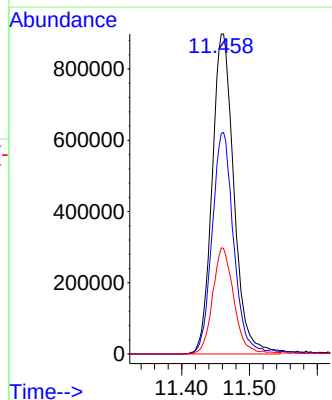
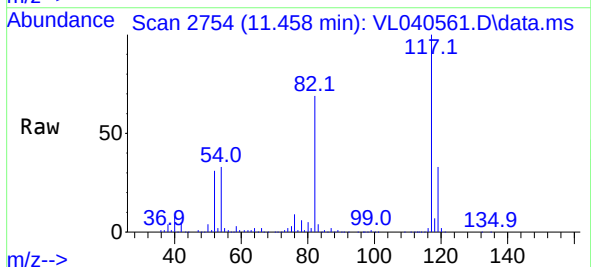
Tgt Ion: 117 Resp: 2008066

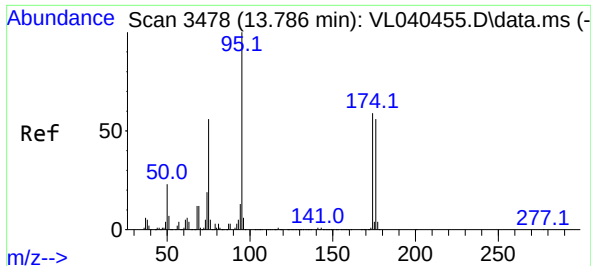
Ion Ratio Lower Upper

117 100

82 69.4 50.2 75.4

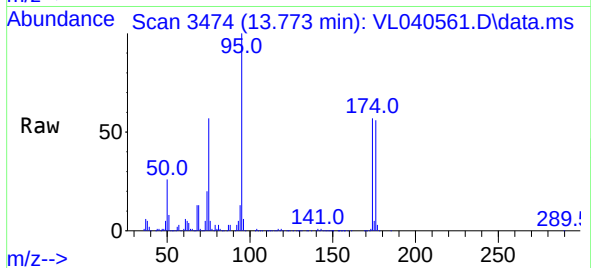
119 32.8 26.9 40.3





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.120 ppbv  
 RT: 13.773 min Scan# 34  
 Delta R.T. -0.010 min  
 Lab File: VL040561.D  
 Acq: 27 Jul 2023 4:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion: 95 Resp: 1608348

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 60.9  | 50.6  | 75.8  |
| 175 | 4.3   | 3.7   | 5.5   |

