

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101123\  
 Data File : VL040761.D  
 Acq On : 11 Oct 2023 16:45  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL101123

Quant Time: Oct 12 00:27:38 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Oct 12 00:21:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.217  | 49    | 1058211  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.674  | 114   | 2941460  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.478 | 117   | 3501994  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.786 | 95    | 2125235  | 8.247    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 82.500%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.771  | 85    | 1803926  | 9.680    | ppbv   | 98       |
| 3) Chlorodifluoromethane      | 2.716  | 51    | 1476677  | 9.495    | ppbv   | 99       |
| 4) Chloromethane              | 2.854  | 50    | 584432   | 9.517    | ppbv   | 99       |
| 5) Vinyl Chloride             | 2.960  | 62    | 605989   | 9.550    | ppbv   | 96       |
| 6) Bromomethane               | 3.156  | 94    | 232276   | 8.848    | ppbv   | 97       |
| 7) Chloroethane               | 3.234  | 64    | 204464   | 9.898    | ppbv   | 95       |
| 8) Dichlorotetrafluoroethane  | 2.896  | 85    | 1385652  | 9.809    | ppbv   | 98       |
| 9) Propene                    | 2.735  | 41    | 562125   | 9.731    | ppbv   | 98       |
| 10) Heptane                   | 7.597  | 43    | 1370587  | 9.445    | ppbv   | 100      |
| 11) Trichlorofluoromethane    | 3.597  | 101   | 1403611  | 9.759    | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 4.095  | 101   | 980543   | 9.559    | ppbv   | 100      |
| 13) Ethanol                   | 3.275  | 45    | 102814   | 7.885    | ppbv   | 94       |
| 14) Bromoethene               | 3.401  | 108   | 440680   | 10.031   | ppbv   | 98       |
| 15) Acetone                   | 3.504  | 43    | 988227   | 9.033    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 3.025  | 39    | 579705   | 10.101   | ppbv   | 99       |
| 17) tert-Butyl alcohol        | 3.909  | 59    | 1201570  | 10.712   | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 3.912  | 96    | 450046   | 9.789    | ppbv   | 96       |
| 19) Isopropyl Alcohol         | 3.607  | 45    | 748874   | 10.634   | ppbv # | 39       |
| 20) Methylene Chloride        | 3.964  | 84    | 376574   | 8.264    | ppbv   | 96       |
| 21) Allyl Chloride            | 4.028  | 41    | 695709   | 9.643    | ppbv   | 100      |
| 22) trans-1,2-Dichloroethene  | 4.472  | 96    | 477722   | 9.763    | ppbv   | 99       |
| 23) Vinyl Acetate             | 4.652  | 43    | 1211686  | 8.691    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 4.590  | 63    | 978624   | 9.307    | ppbv   | 99       |
| 25) Ethyl Acetate             | 5.227  | 43    | 2263497  | 9.443    | ppbv   | 99       |
| 26) Hexane                    | 5.237  | 57    | 1013066  | 9.248    | ppbv   | 99       |
| 27) Carbon Disulfide          | 4.153  | 76    | 1173116  | 9.705    | ppbv   | 98       |
| 28) Methyl tert-Butyl Ether   | 4.613  | 73    | 779338   | 9.148    | ppbv   | 99       |
| 29) Chloroform                | 5.298  | 83    | 1530886  | 9.658    | ppbv   | 99       |
| 30) Cyclohexane               | 6.623  | 84    | 889680   | 9.544    | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 5.105  | 61    | 1004787  | 9.953    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 6.025  | 97    | 1568557  | 9.297    | ppbv   | 99       |
| 34) 2-Butanone                | 4.812  | 43    | 1363646  | 10.242   | ppbv   | 97       |
| 35) Carbon Tetrachloride      | 6.513  | 117   | 1639275  | 9.929    | ppbv   | 96       |
| 36) Benzene                   | 6.388  | 78    | 2181147  | 9.640    | ppbv   | 97       |
| 37) 1,2-Dichloroethane        | 5.832  | 62    | 1154402  | 9.963    | ppbv   | 100      |
| 38) Trichloroethene           | 7.311  | 130   | 844754   | 8.437    | ppbv   | 97       |
| 39) 1,2-Dichloropropane       | 7.092  | 63    | 842344   | 9.530    | ppbv   | 99       |
| 40) 1,4-Dioxane               | 7.301  | 88    | 353468   | 10.567   | ppbv # | 95       |
| 41) Tetrahydrofuran           | 5.578  | 42    | 898673   | 9.747    | ppbv   | 98       |
| 42) Bromodichloromethane      | 7.269  | 83    | 1727848  | 9.954    | ppbv   | 100      |
| 43) Methyl Methacrylate       | 7.491  | 69    | 895957   | 9.893    | ppbv   | 98       |
| 44) 2,2,4-Trimethylpentane    | 7.343  | 57    | 3562095  | 9.310    | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 8.725  | 75    | 663097   | 9.182    | ppbv   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101123\  
 Data File : VL040761.D  
 Acq On : 11 Oct 2023 16:45  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

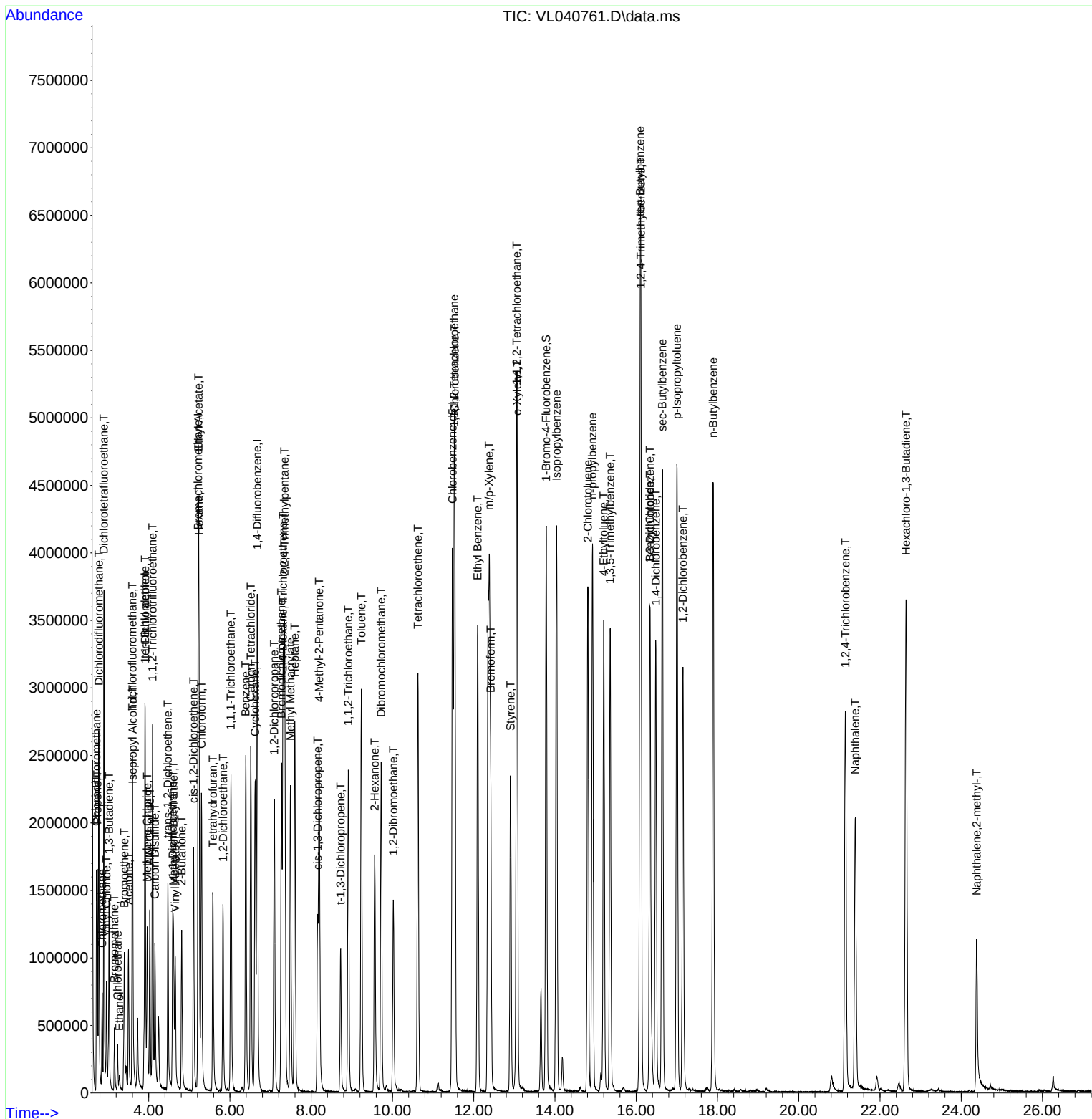
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

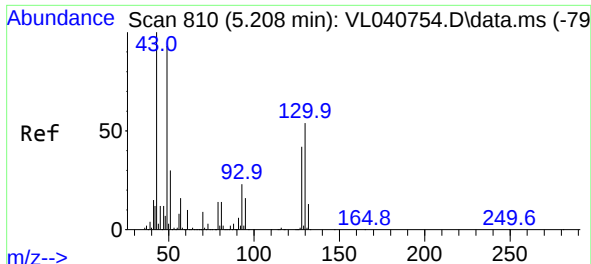
Quant Time: Oct 12 00:27:38 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Oct 12 00:21:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.159  | 75   | 778441   | 8.823  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 8.912  | 97   | 885595   | 9.538  | ppbv   | 97       |
| 48) Dibromochloromethane      | 9.722  | 129  | 1580287  | 10.156 | ppbv   | 100      |
| 49) Bromoform                 | 12.417 | 173  | 1321649  | 10.449 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.195  | 43   | 2255211  | 9.901  | ppbv   | 99       |
| 51) 2-Hexanone                | 9.565  | 43   | 1694470  | 9.775  | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.629 | 164  | 827075   | 9.000  | ppbv   | 97       |
| 53) Toluene                   | 9.237  | 91   | 2548669  | 9.465  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.021 | 107  | 1263716  | 9.709  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 11.519 | 131  | 1123036  | 7.858  | ppbv   | 95       |
| 57) Chlorobenzene             | 11.536 | 112  | 1950604  | 7.774  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.098 | 91   | 3373967  | 7.652  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.381 | 91   | 3139901  | 8.652  | ppbv # | 46       |
| 60) o-Xylene                  | 13.072 | 91   | 2619599  | 7.576  | ppbv   | 100      |
| 61) Styrene                   | 12.905 | 104  | 1541469  | 8.046  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.037 | 105  | 4009173  | 7.537  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.056 | 83   | 1852551  | 7.146  | ppbv   | 99       |
| 64) n-propylbenzene           | 14.925 | 120  | 1108047  | 7.754  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.098 | 119  | 3541064  | 7.381  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.336 | 91   | 300841   | 6.224  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 16.641 | 105  | 4906427  | 7.469  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.002 | 119  | 4145117  | 7.531  | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.892 | 91   | 4111100  | 7.606  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.809 | 91   | 3050025  | 7.633  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.201 | 105  | 3252920  | 8.033  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.359 | 105  | 2774146  | 7.781  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.117 | 105  | 2952224  | 7.579  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.339 | 146  | 1879432  | 7.758  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 16.484 | 146  | 1851420  | 7.717  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.149 | 146  | 1803349  | 7.587  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 22.641 | 225  | 1120908  | 6.591  | ppbv   | 99       |
| 79) Naphthalene               | 21.390 | 128  | 2793826  | 8.824  | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 24.381 | 142  | 1044179  | 11.752 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.149 | 180  | 1388866  | 8.080  | ppbv   | 100      |

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

Quant Time: Oct 12 00:27:38 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Oct 12 00:21:08 2023  
Response via : Initial Calibration

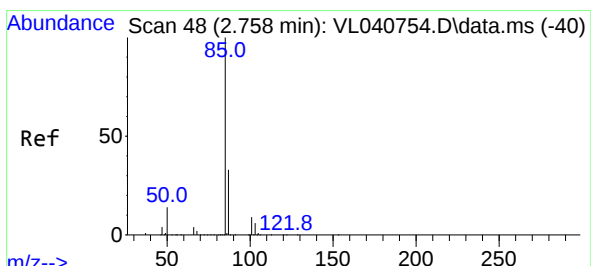
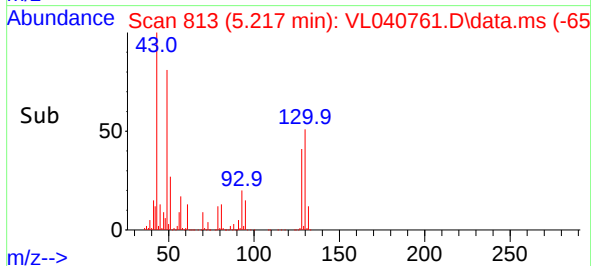
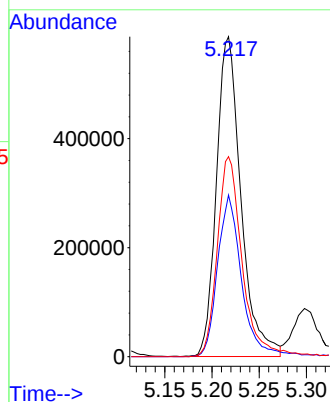
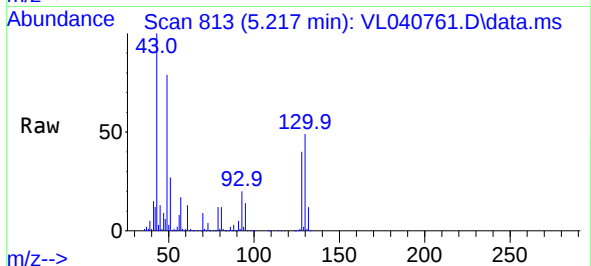




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.217 min Scan# 81  
Delta R.T. 0.009 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

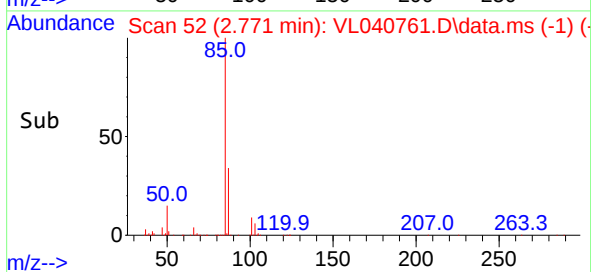
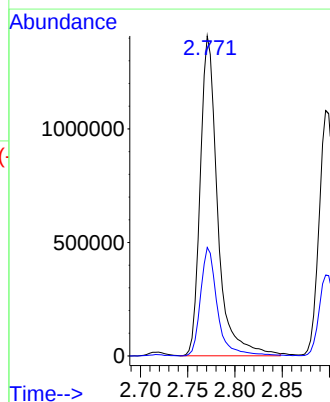
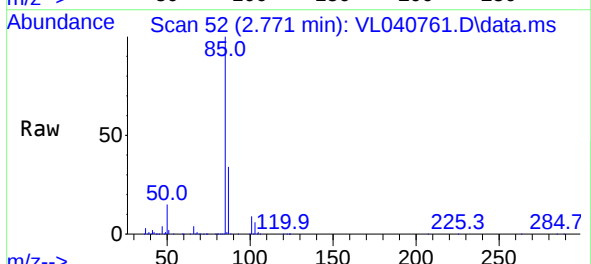
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

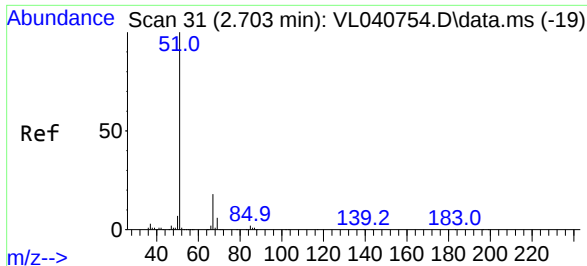
Tgt Ion: 49 Resp: 1058211  
Ion Ratio Lower Upper  
49 100  
128 50.4 23.9 71.7  
130 64.0 30.7 92.1



#2  
Dichlorodifluoromethane  
Concen: 9.680 ppbv  
RT: 2.771 min Scan# 52  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 85 Resp: 1803926  
Ion Ratio Lower Upper  
85 100  
87 33.9 26.0 39.0

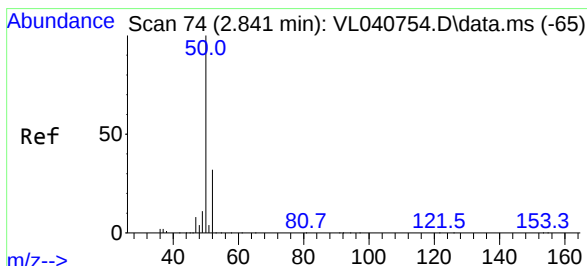
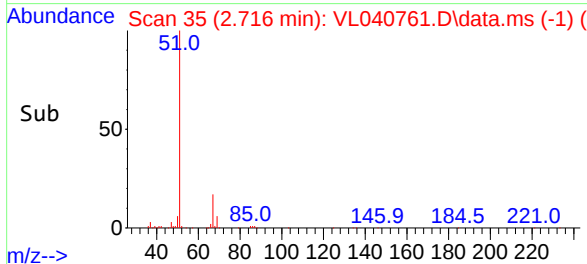
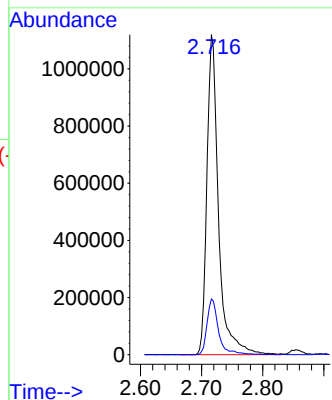
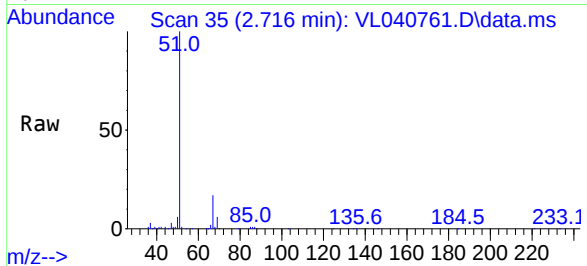




#3  
Chlorodifluoromethane  
Concen: 9.495 ppbv  
RT: 2.716 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

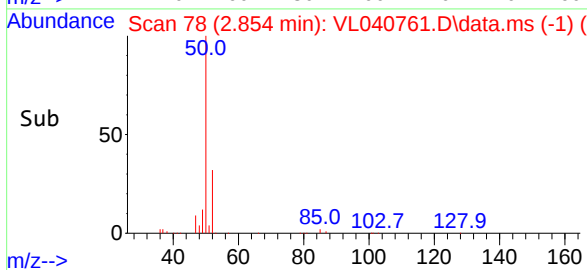
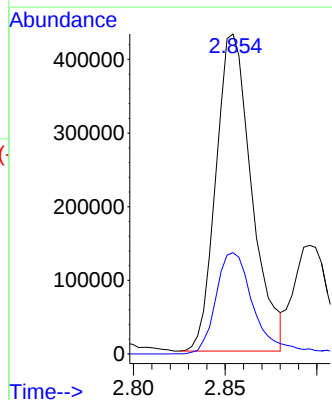
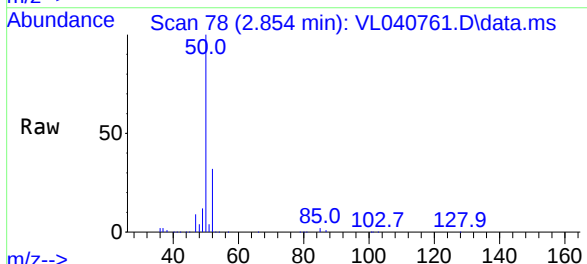
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

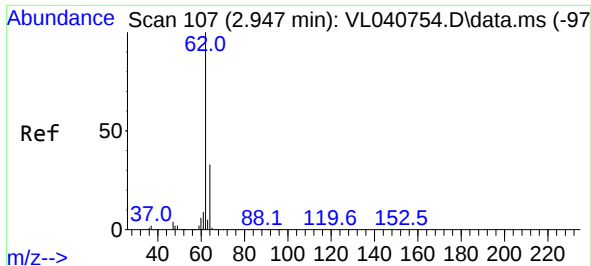
Tgt Ion: 51 Resp: 1476677  
Ion Ratio Lower Upper  
51 100  
67 17.4 13.8 20.6



#4  
Chloromethane  
Concen: 9.517 ppbv  
RT: 2.854 min Scan# 78  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 50 Resp: 584432  
Ion Ratio Lower Upper  
50 100  
52 31.9 25.3 37.9

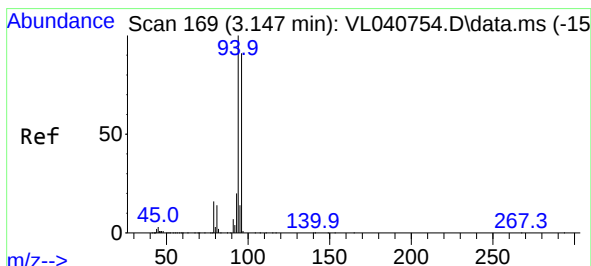
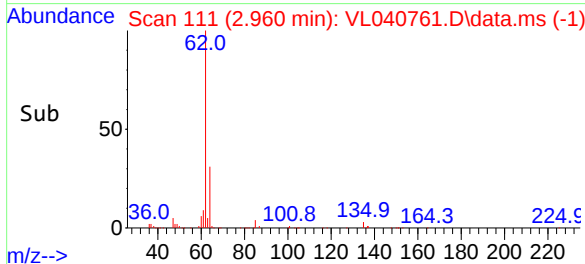
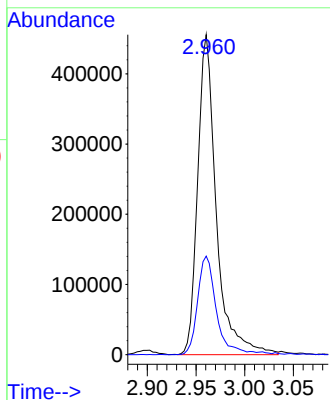
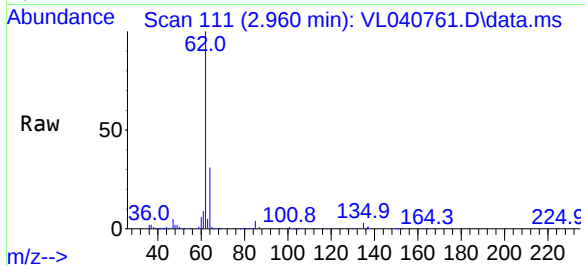




#5  
 Vinyl Chloride  
 Concen: 9.550 ppbv  
 RT: 2.960 min Scan# 111  
 Delta R.T. 0.013 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

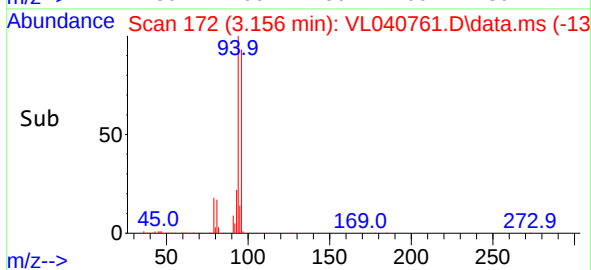
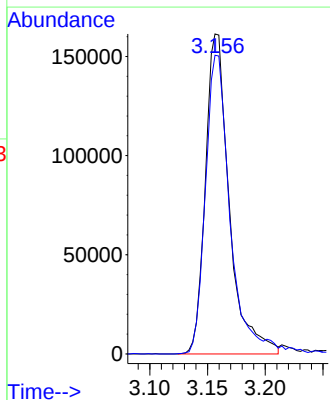
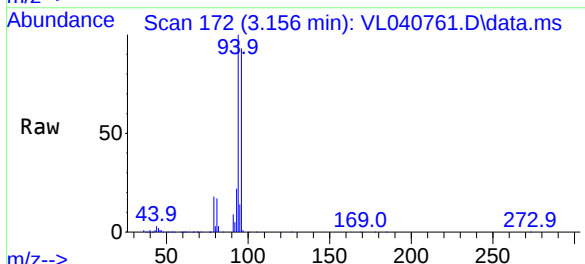
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

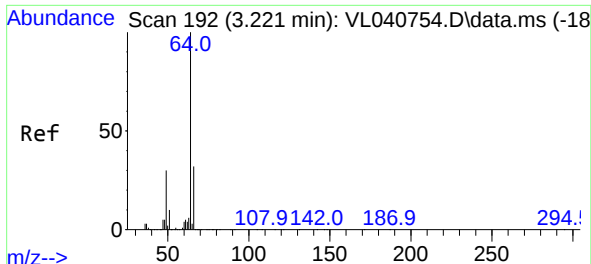
Tgt Ion: 62 Resp: 605989  
 Ion Ratio Lower Upper  
 62 100  
 64 30.7 26.6 39.8



#6  
 Bromomethane  
 Concen: 8.848 ppbv  
 RT: 3.156 min Scan# 172  
 Delta R.T. 0.010 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Tgt Ion: 94 Resp: 232276  
 Ion Ratio Lower Upper  
 94 100  
 96 93.3 72.6 109.0

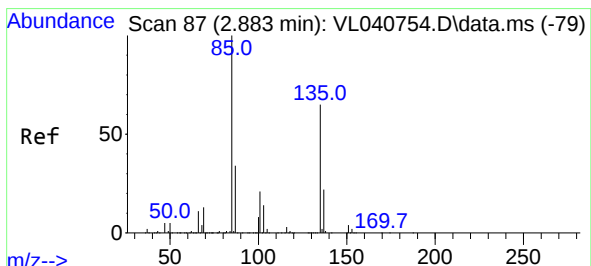
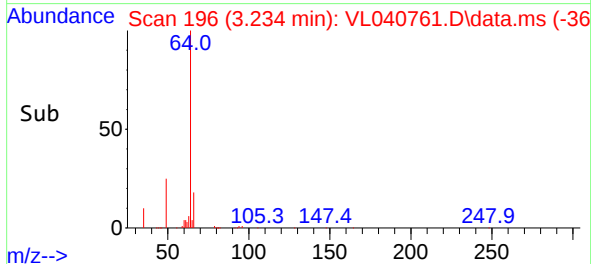
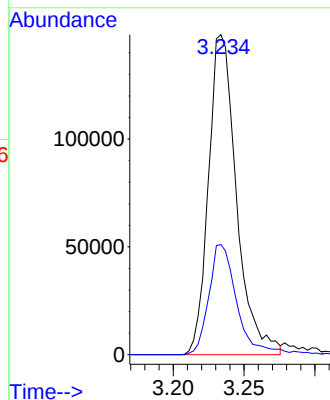
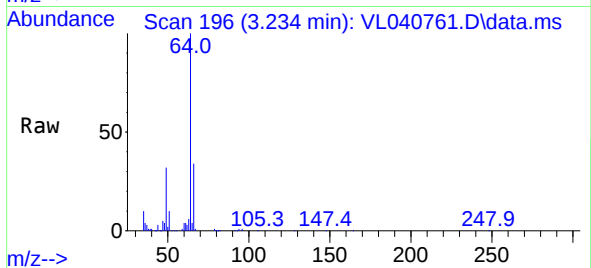




#7  
Chloroethane  
Concen: 9.898 ppbv  
RT: 3.234 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

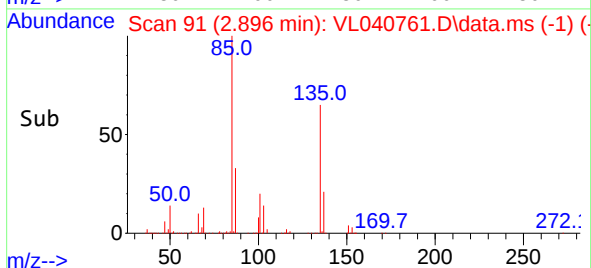
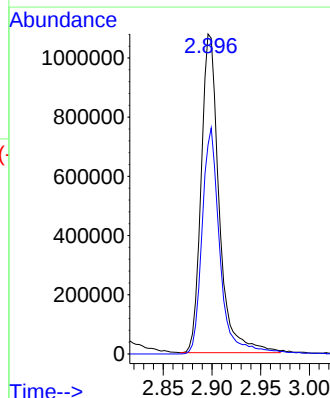
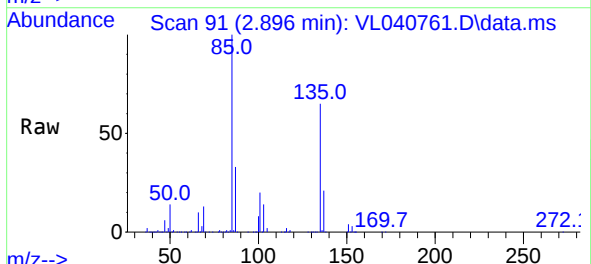
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

Tgt Ion: 64 Resp: 204464  
Ion Ratio Lower Upper  
64 100  
66 34.4 25.4 38.2

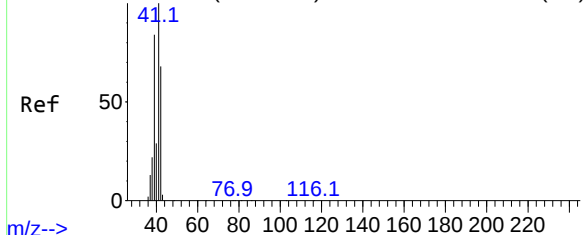


#8  
Dichlorotetrafluoroethane  
Concen: 9.809 ppbv  
RT: 2.896 min Scan# 91  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 85 Resp: 1385652  
Ion Ratio Lower Upper  
85 100  
135 70.6 55.4 83.2



Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



#9

Propene

Concen: 9.731 ppbv

RT: 2.735 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101123

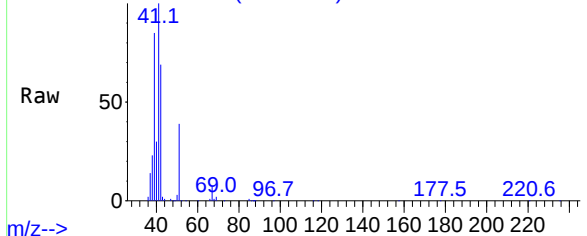
Tgt Ion: 41 Resp: 562125

Ion Ratio Lower Upper

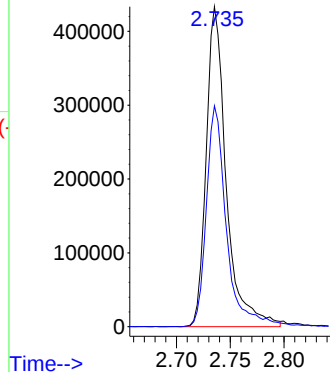
41 100

42 69.8 57.1 85.7

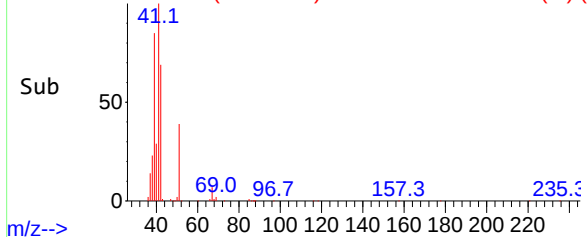
Abundance Scan 41 (2.735 min): VL040761.D\data.ms



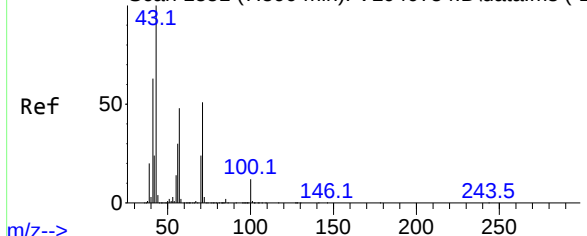
Abundance



Abundance Scan 41 (2.735 min): VL040761.D\data.ms (-1)



Abundance Scan 1551 (7.590 min): VL040754.D\data.ms (-1)



#10

Heptane

Concen: 9.445 ppbv

RT: 7.597 min Scan# 1553

Delta R.T. 0.006 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

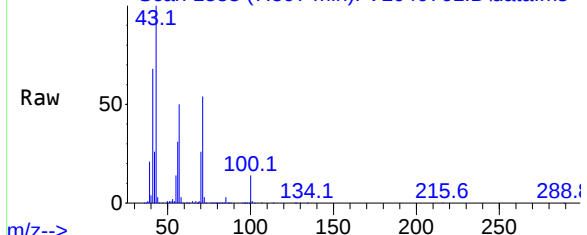
Tgt Ion: 43 Resp: 1370587

Ion Ratio Lower Upper

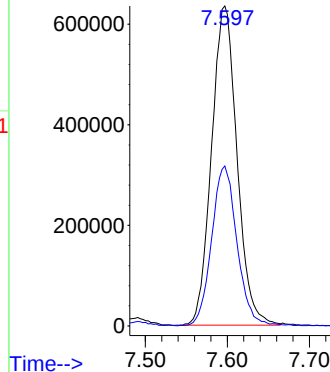
43 100

57 49.7 40.0 60.0

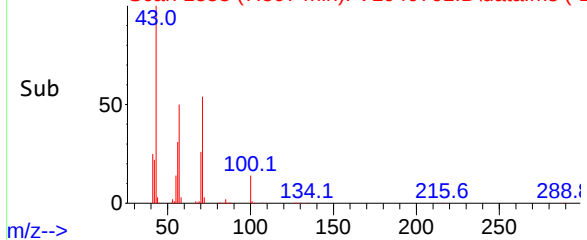
Abundance Scan 1553 (7.597 min): VL040761.D\data.ms

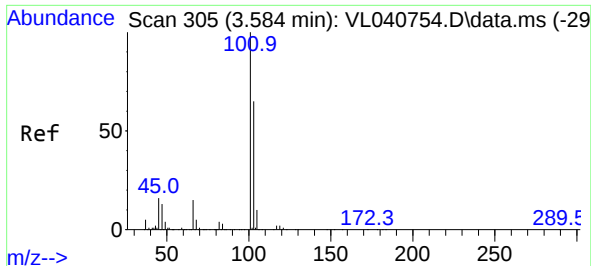


Abundance



Abundance Scan 1553 (7.597 min): VL040761.D\data.ms (-1)

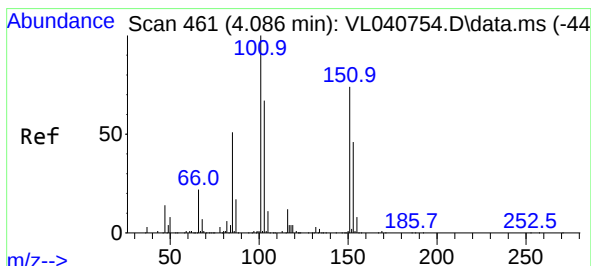
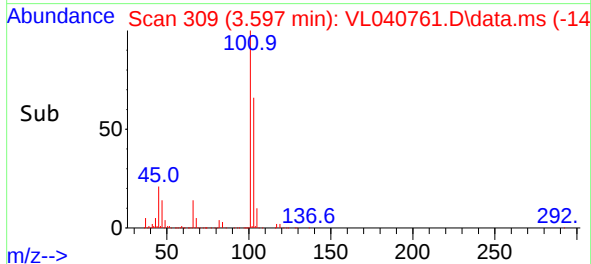
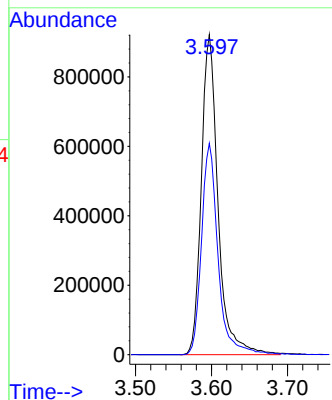
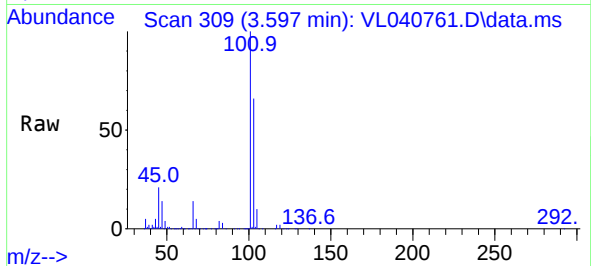




#11  
 Trichlorofluoromethane  
 Concen: 9.759 ppbv  
 RT: 3.597 min Scan# 305  
 Delta R.T. 0.013 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

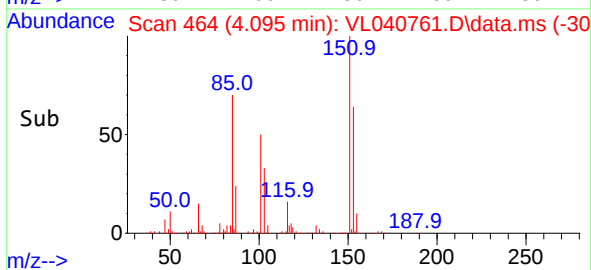
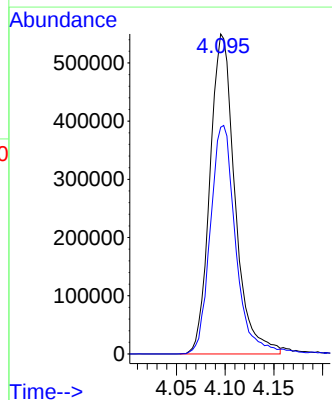
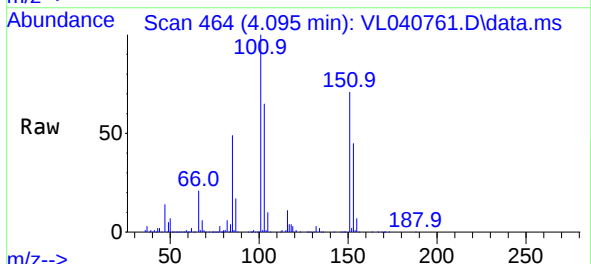
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

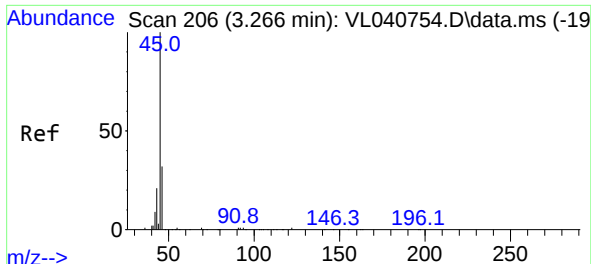
Tgt Ion:101 Resp: 1403611  
 Ion Ratio Lower Upper  
 101 100  
 103 66.1 52.2 78.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.559 ppbv  
 RT: 4.095 min Scan# 464  
 Delta R.T. 0.010 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Tgt Ion:101 Resp: 980543  
 Ion Ratio Lower Upper  
 101 100  
 151 72.9 58.1 87.1





#13

Ethanol

Concen: 7.885 ppbv

RT: 3.275 min Scan# 206

Delta R.T. 0.010 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

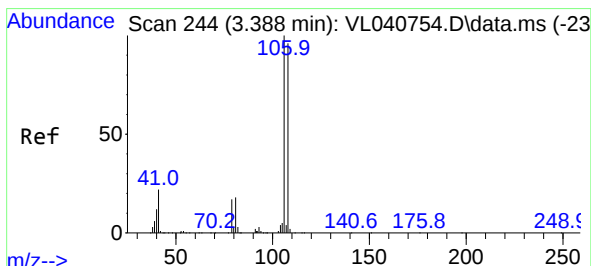
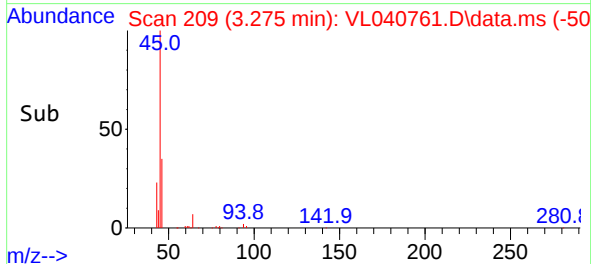
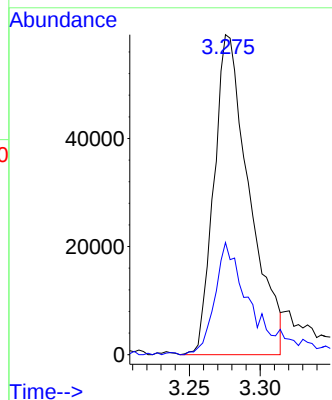
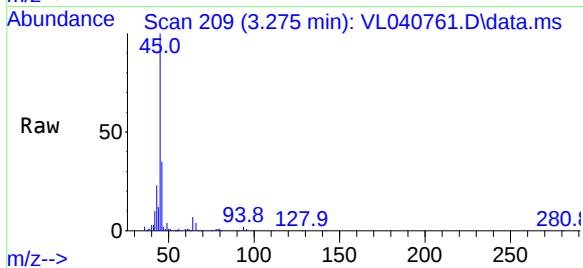
ICVVL101123

Tgt Ion: 45 Resp: 102814

Ion Ratio Lower Upper

45 100

46 39.7 14.6 58.2



#14

Bromoethene

Concen: 10.031 ppbv

RT: 3.401 min Scan# 248

Delta R.T. 0.013 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

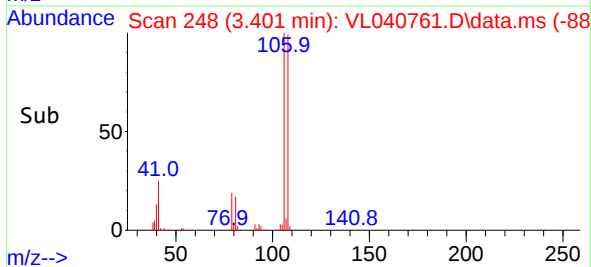
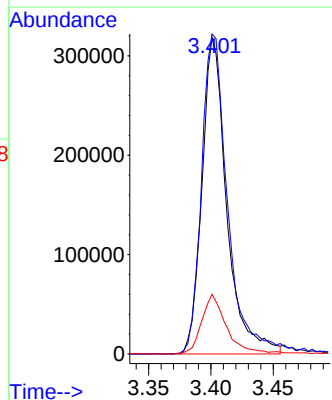
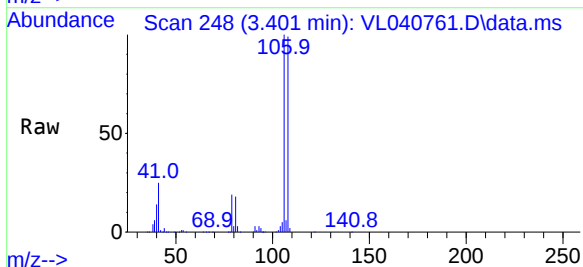
Tgt Ion:108 Resp: 440680

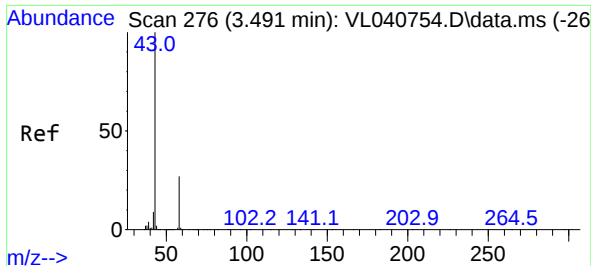
Ion Ratio Lower Upper

108 100

106 109.0 85.2 127.8

79 19.4 15.7 23.5

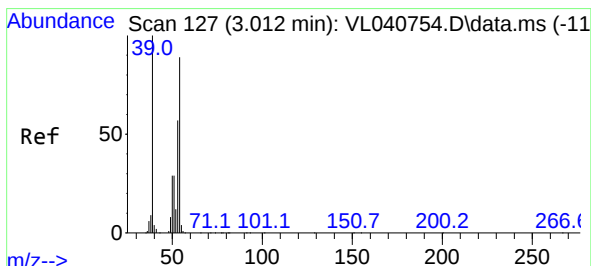
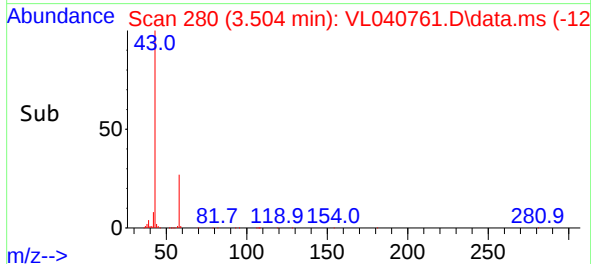
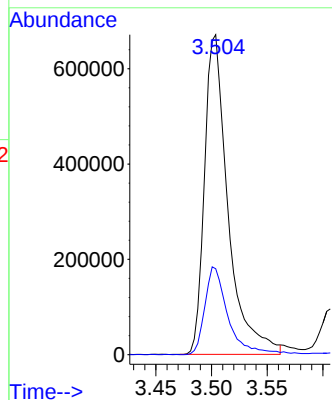
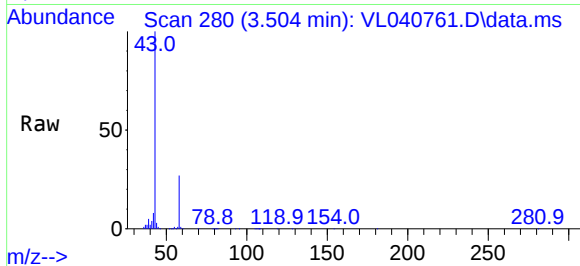




#15  
Acetone  
Concen: 9.033 ppbv  
RT: 3.504 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

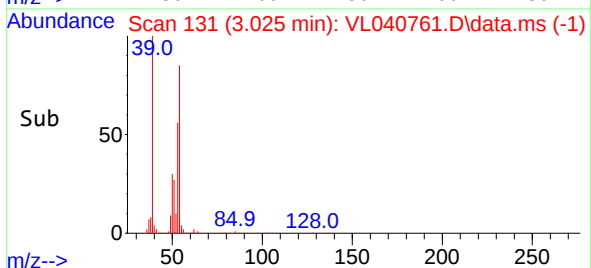
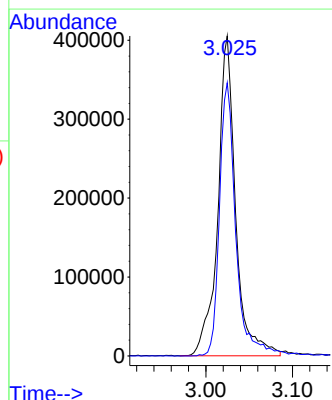
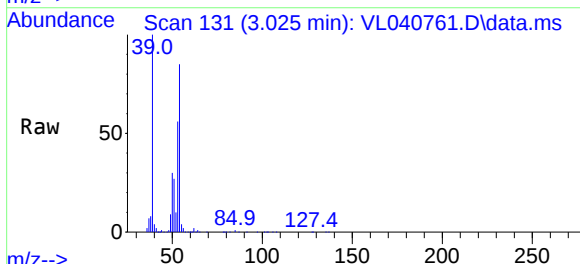
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

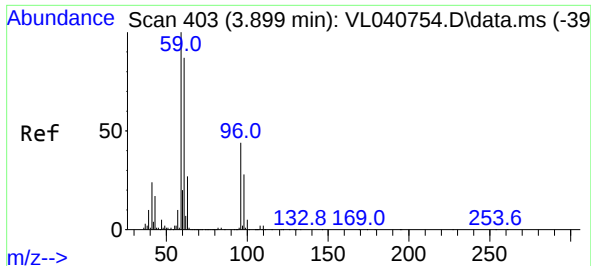
Tgt Ion: 43 Resp: 988227  
Ion Ratio Lower Upper  
43 100  
58 27.4 21.6 32.4



#16  
1,3-Butadiene  
Concen: 10.101 ppbv  
RT: 3.025 min Scan# 131  
Delta R.T. 0.013 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 39 Resp: 579705  
Ion Ratio Lower Upper  
39 100  
54 79.4 63.0 94.6

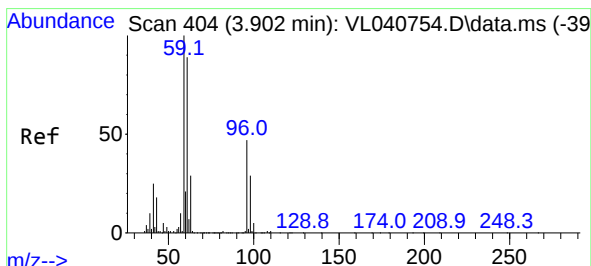
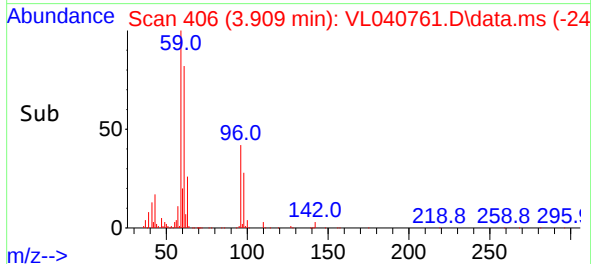
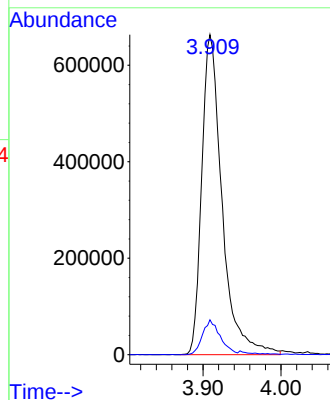
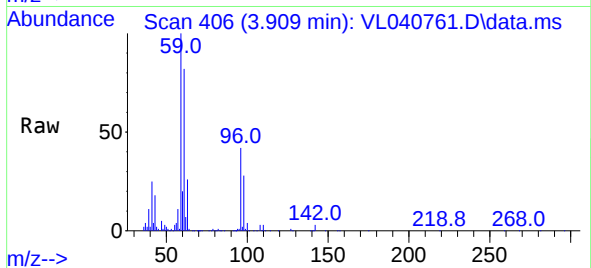




#17  
tert-Butyl alcohol  
Concen: 10.712 ppbv  
RT: 3.909 min Scan# 406  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

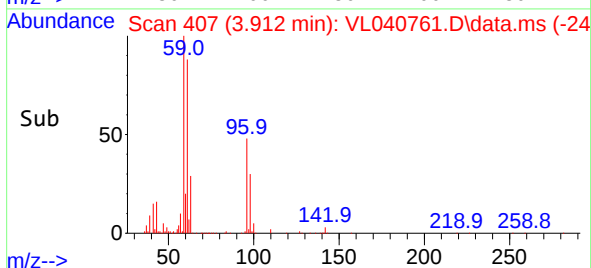
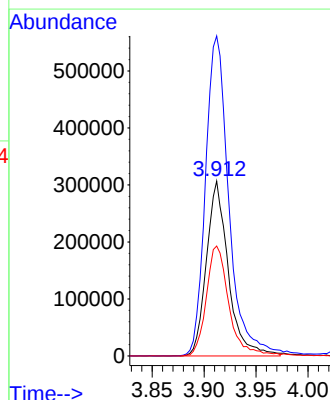
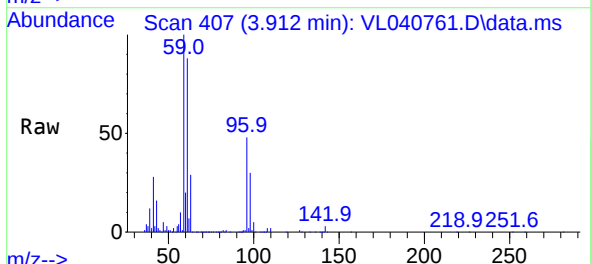
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

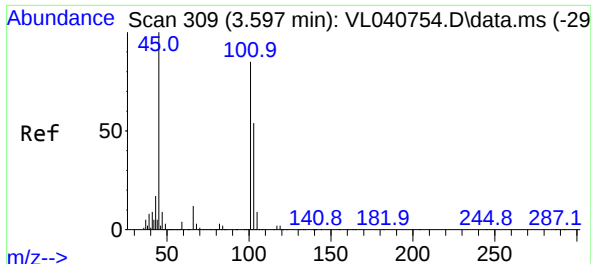
Tgt Ion: 59 Resp: 1201570  
Ion Ratio Lower Upper  
59 100  
57 10.4 8.6 13.0



#18  
1,1-Dichloroethene  
Concen: 9.789 ppbv  
RT: 3.912 min Scan# 407  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 96 Resp: 450046  
Ion Ratio Lower Upper  
96 100  
61 182.8 152.5 228.7  
98 62.9 49.6 74.4

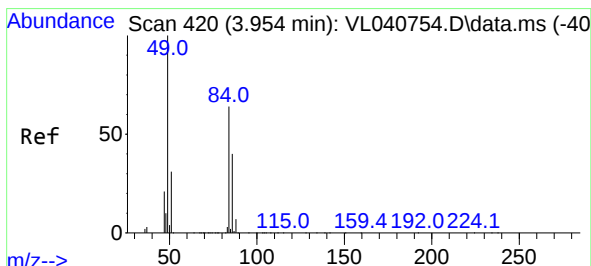
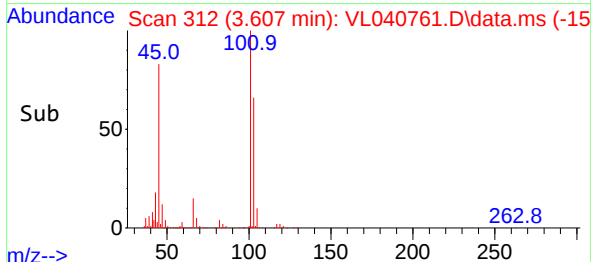
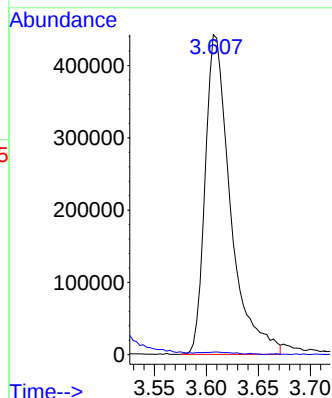
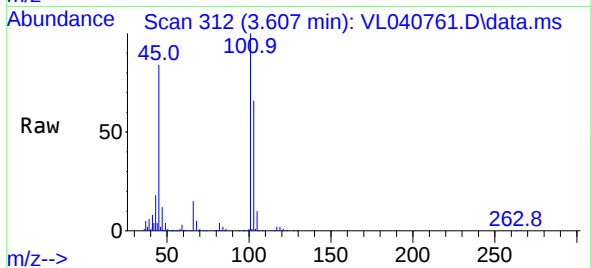




#19  
Isopropyl Alcohol  
Concen: 10.634 ppbv  
RT: 3.607 min Scan# 312  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

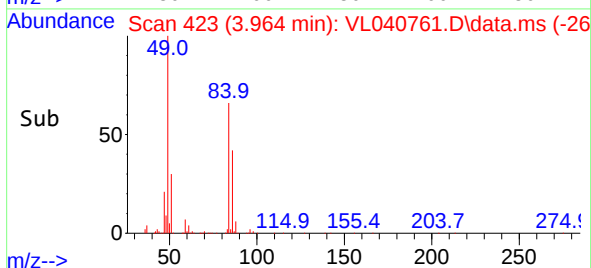
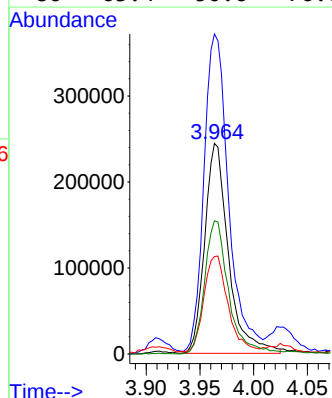
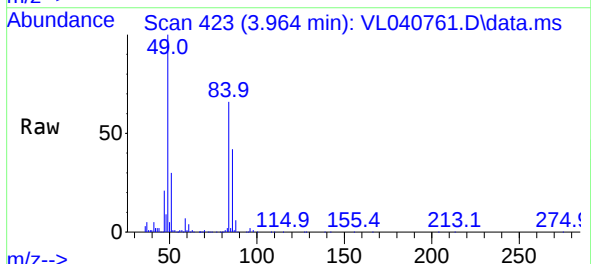
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

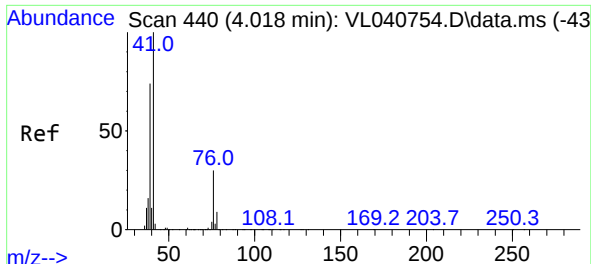
Tgt Ion: 45 Resp: 748874  
Ion Ratio Lower Upper  
45 100  
58 1.4 30.3 45.5#



#20  
Methylene Chloride  
Concen: 8.264 ppbv  
RT: 3.964 min Scan# 423  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 84 Resp: 376574  
Ion Ratio Lower Upper  
84 100  
49 151.0 125.6 188.4  
51 45.2 38.9 58.3  
86 63.4 50.6 76.0





#21

Allyl Chloride

Concen: 9.643 ppbv

RT: 4.028 min Scan# 440

Delta R.T. 0.010 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101123

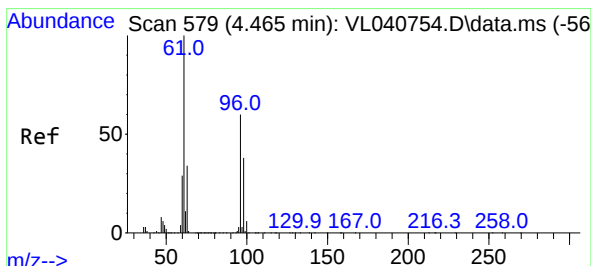
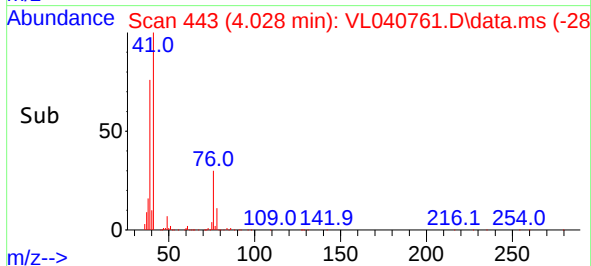
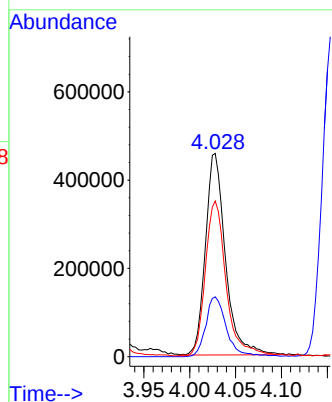
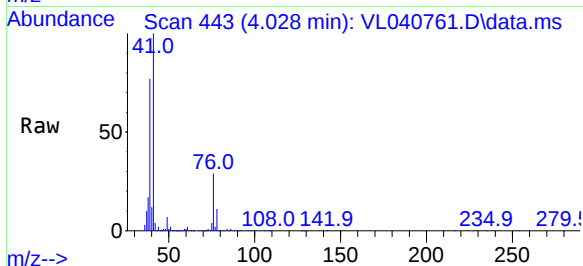
Tgt Ion: 41 Resp: 695709

Ion Ratio Lower Upper

41 100

76 30.8 24.1 36.1

39 79.9 63.8 95.6



#22

trans-1,2-Dichloroethene

Concen: 9.763 ppbv

RT: 4.472 min Scan# 581

Delta R.T. 0.006 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

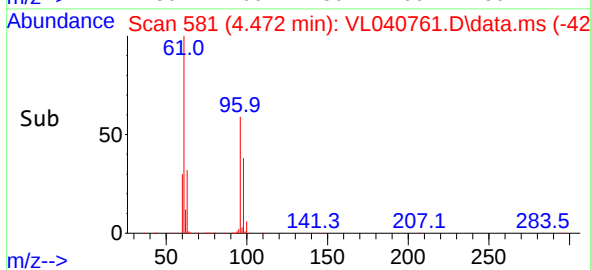
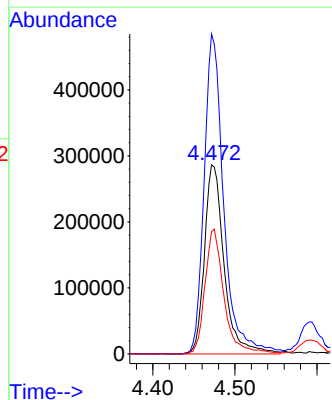
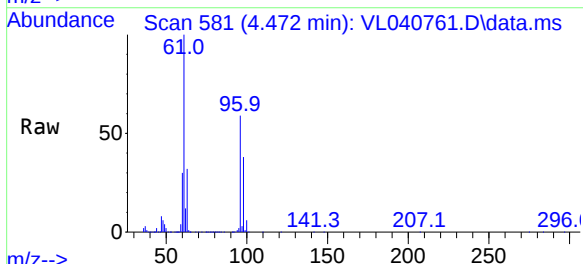
Tgt Ion: 96 Resp: 477722

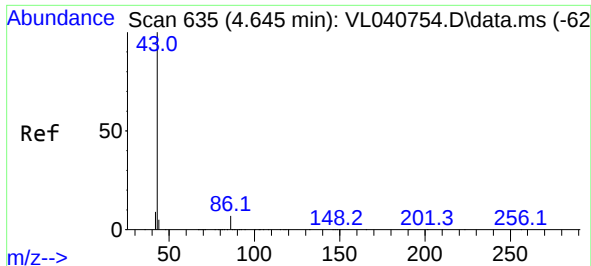
Ion Ratio Lower Upper

96 100

61 169.1 134.0 201.0

98 64.7 51.0 76.4



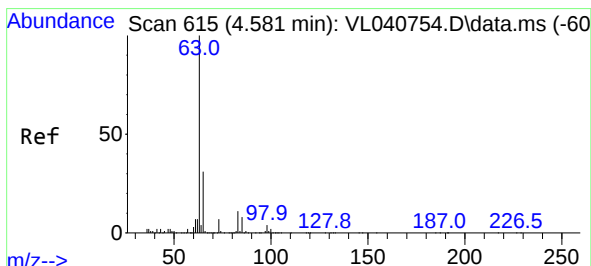
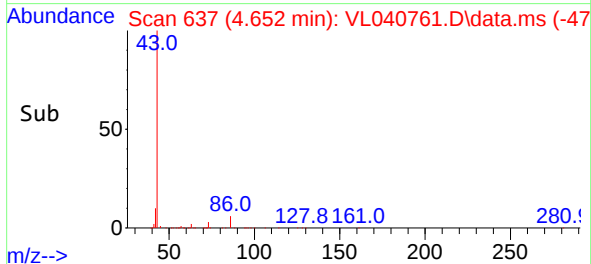
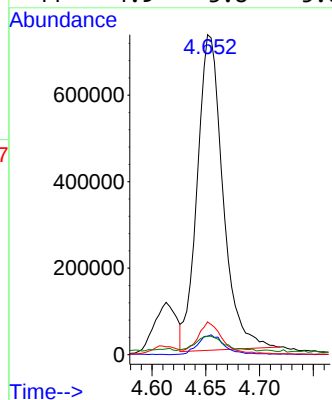
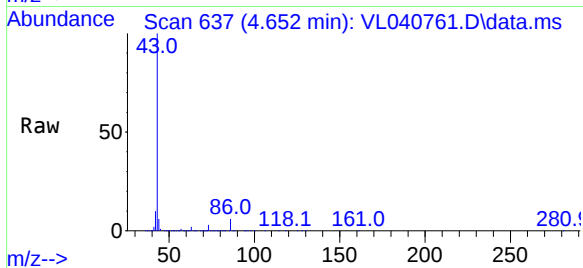


#23  
 Vinyl Acetate  
 Concen: 8.691 ppbv  
 RT: 4.652 min Scan# 611  
 Delta R.T. 0.006 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL101123

Tgt Ion: 43 Resp: 1211686

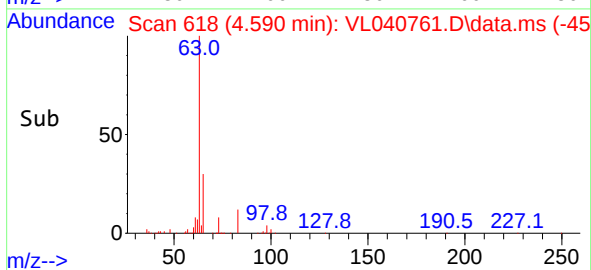
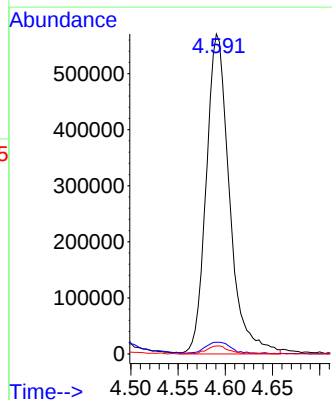
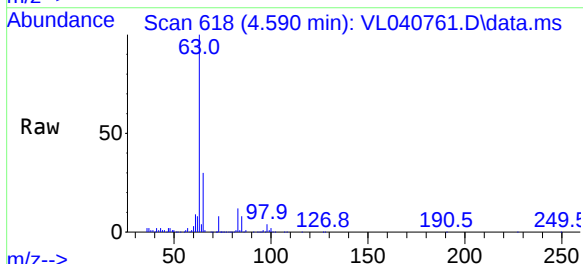
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 5.7   | 4.9   | 7.3   |
| 42  | 10.2  | 7.8   | 11.6  |
| 44  | 4.9   | 3.8   | 5.6   |

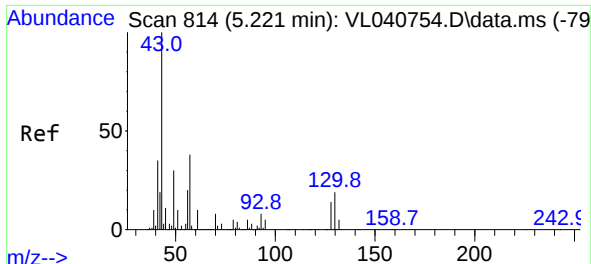


#24  
 1,1-Dichloroethane  
 Concen: 9.307 ppbv  
 RT: 4.590 min Scan# 618  
 Delta R.T. 0.010 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Tgt Ion: 63 Resp: 978624

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.5   | 2.0   | 5.8   |
| 100 | 2.4   | 1.3   | 3.8   |



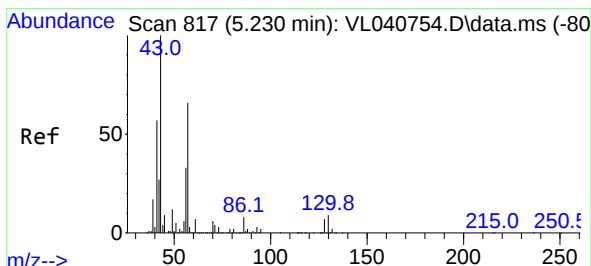
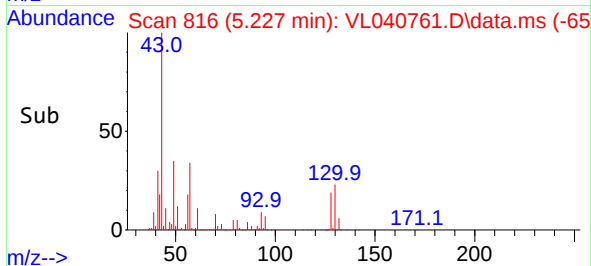
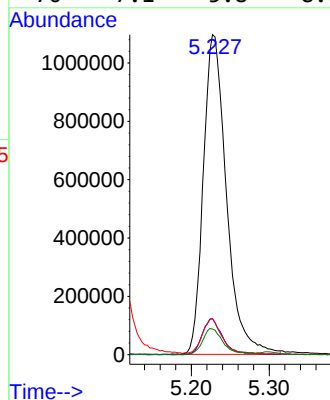
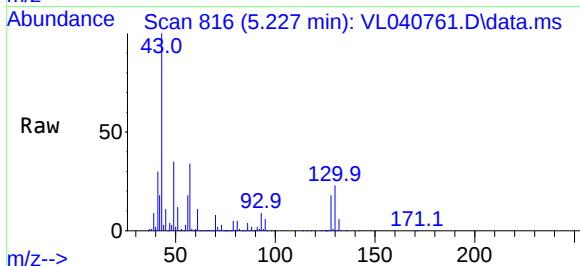


#25  
Ethyl Acetate  
Concen: 9.443 ppbv  
RT: 5.227 min Scan# 814  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101123

Tgt Ion: 43 Resp: 2263497

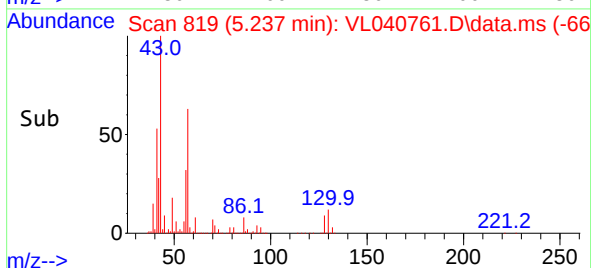
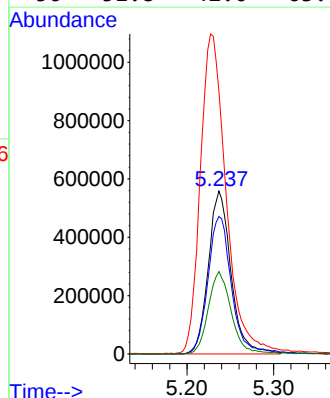
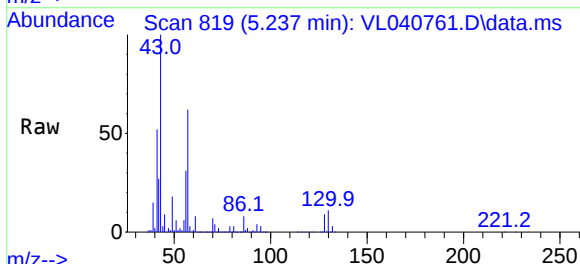
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 8.2   | 12.4  |
| 61  | 10.1  | 8.2   | 12.2  |
| 70  | 7.1   | 5.8   | 8.6   |

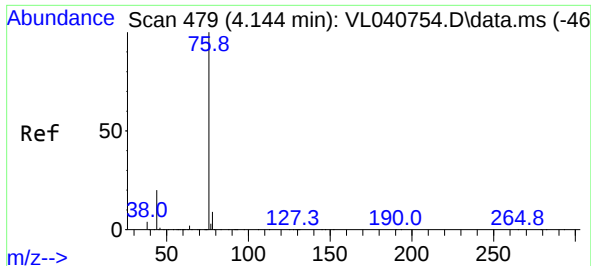


#26  
Hexane  
Concen: 9.248 ppbv  
RT: 5.237 min Scan# 819  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 57 Resp: 1013066

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 88.7  | 71.4  | 107.2 |
| 43  | 226.3 | 182.3 | 273.5 |
| 56  | 51.8  | 42.0  | 63.0  |

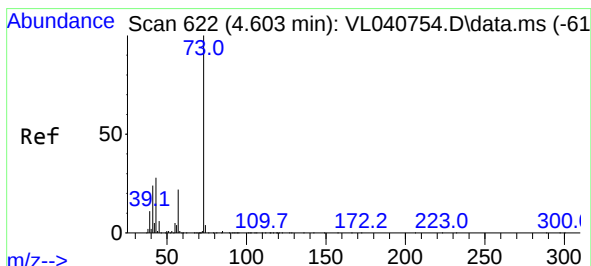
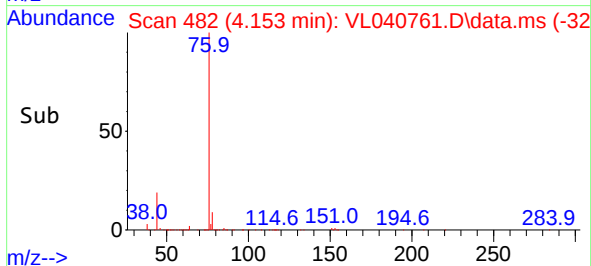
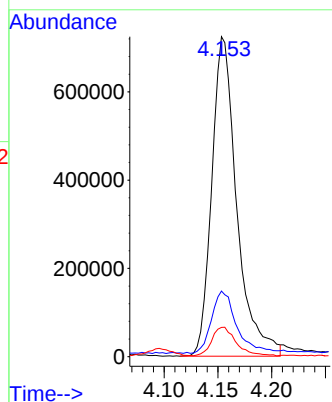
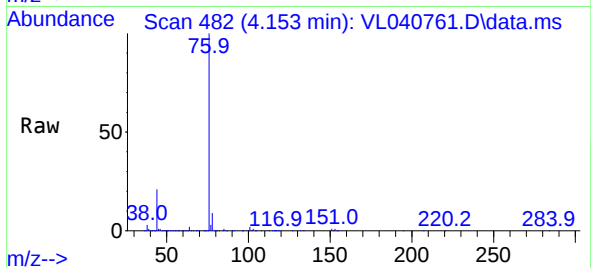




#27  
Carbon Disulfide  
Concen: 9.705 ppbv  
RT: 4.153 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

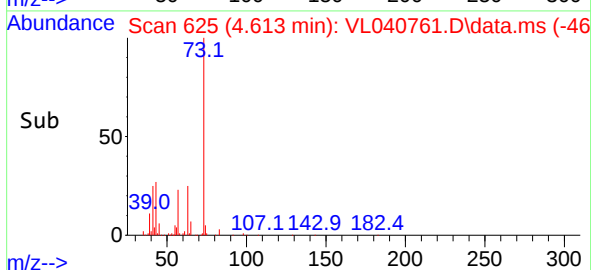
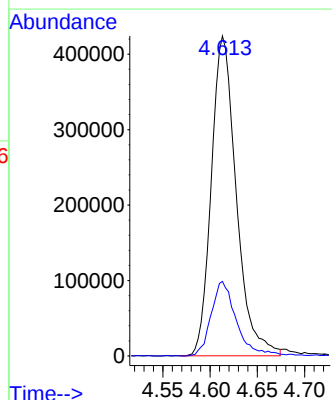
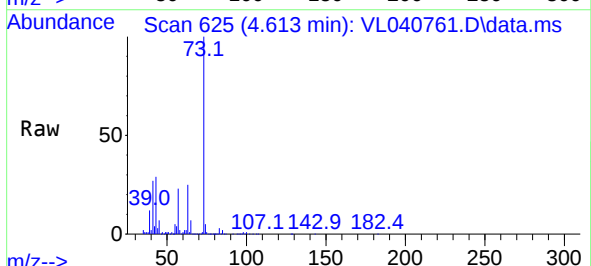
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

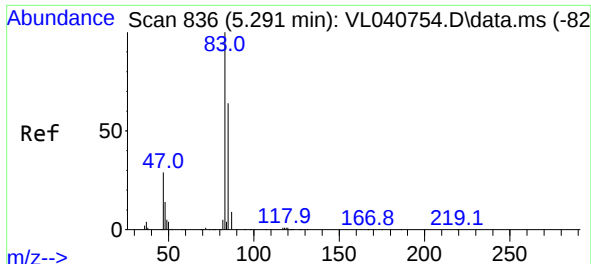
Tgt Ion: 76 Resp: 1173116  
Ion Ratio Lower Upper  
76 100  
44 19.8 16.6 25.0  
78 10.2 7.8 11.6



#28  
Methyl tert-Butyl Ether  
Concen: 9.148 ppbv  
RT: 4.613 min Scan# 625  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 73 Resp: 779338  
Ion Ratio Lower Upper  
73 100  
57 24.0 18.9 28.3





#29

Chloroform

Concen: 9.658 ppbv

RT: 5.298 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

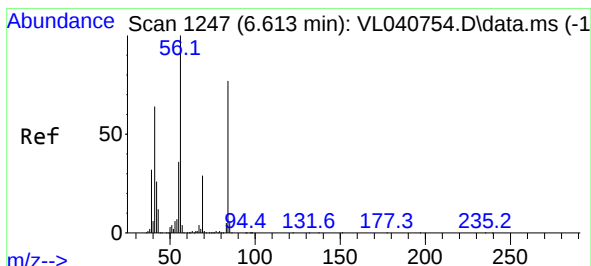
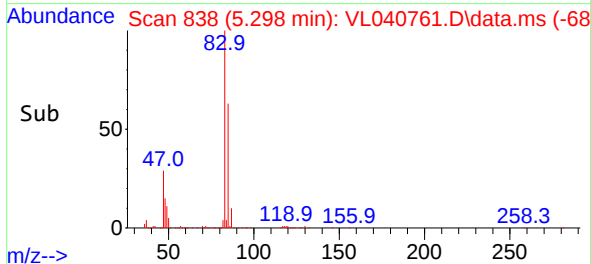
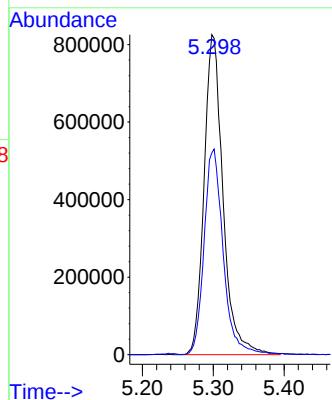
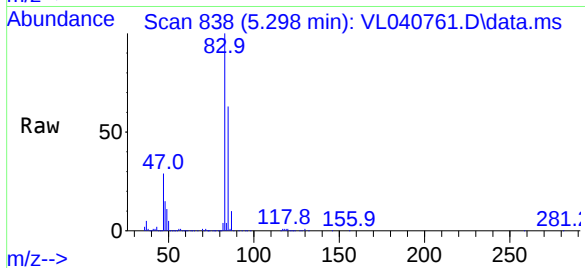
ICVVL101123

Tgt Ion: 83 Resp: 1530886

Ion Ratio Lower Upper

83 100

85 63.0 51.3 76.9



#30

Cyclohexane

Concen: 9.544 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. 0.010 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

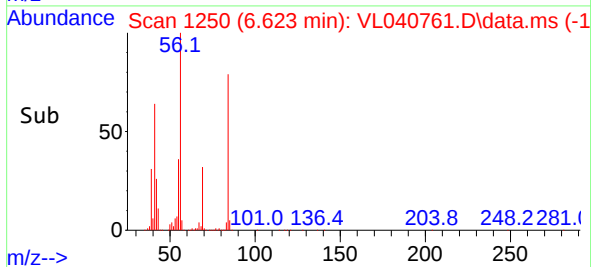
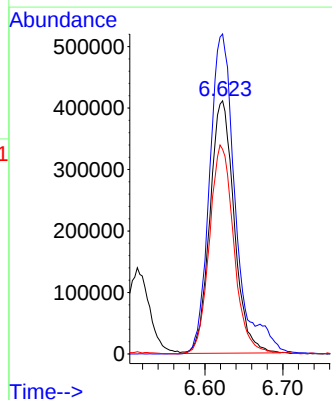
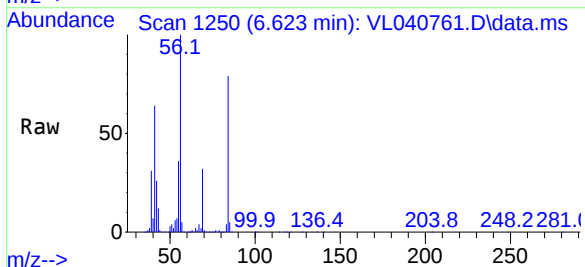
Tgt Ion: 84 Resp: 889680

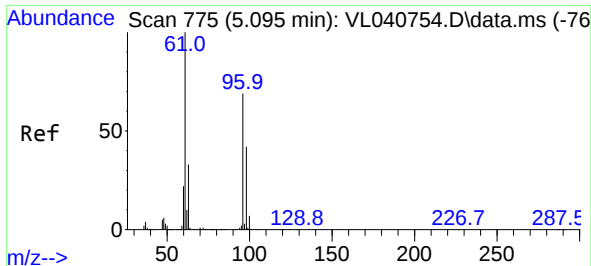
Ion Ratio Lower Upper

84 100

56 136.3 110.3 165.5

41 83.2 67.4 101.2

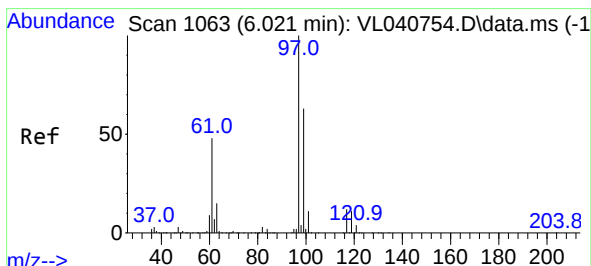
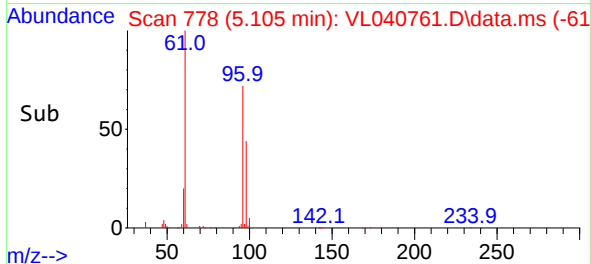
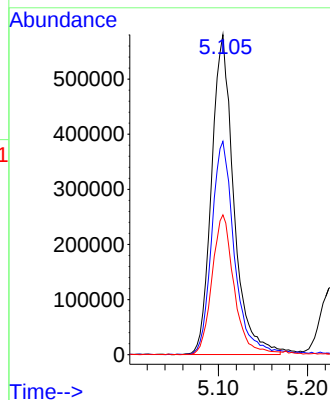
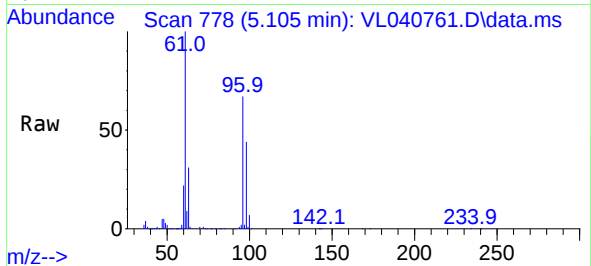




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.953 ppbv  
 RT: 5.105 min Scan# 71  
 Delta R.T. 0.010 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

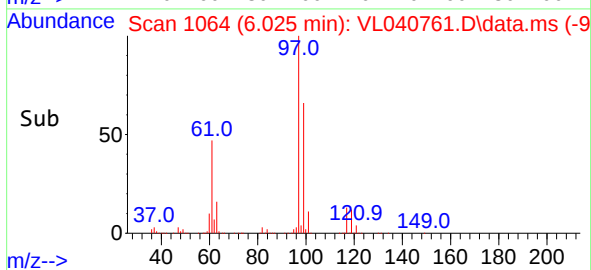
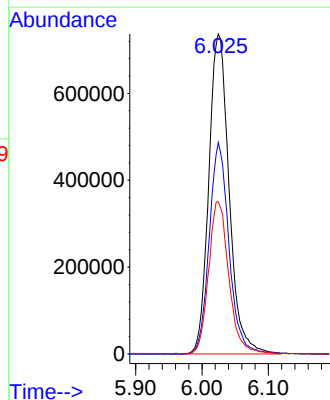
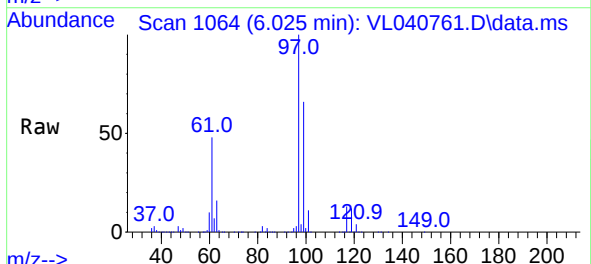
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

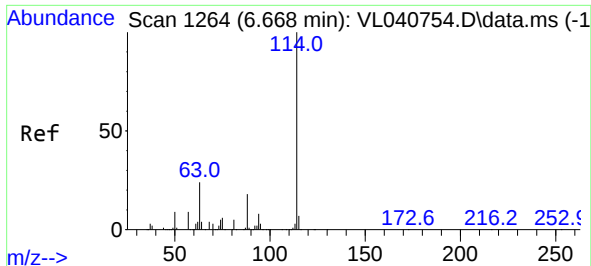
Tgt Ion: 61 Resp: 1004787  
 Ion Ratio Lower Upper  
 61 100  
 96 66.6 55.1 82.7  
 98 43.7 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 9.297 ppbv  
 RT: 6.025 min Scan# 1064  
 Delta R.T. 0.003 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Tgt Ion: 97 Resp: 1568557  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.8 77.6  
 61 47.7 38.6 58.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101123

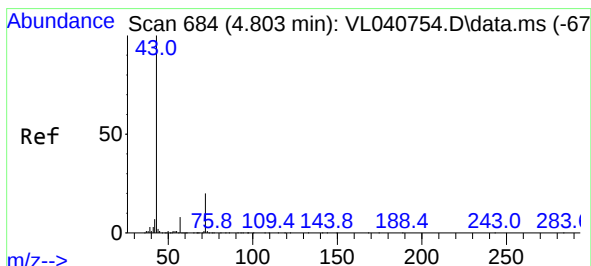
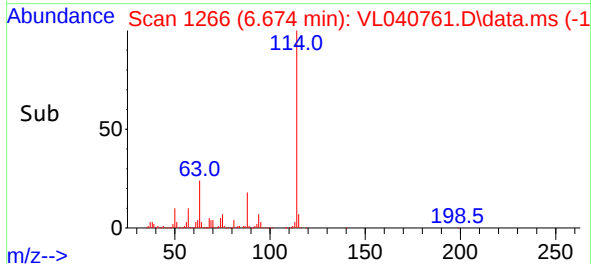
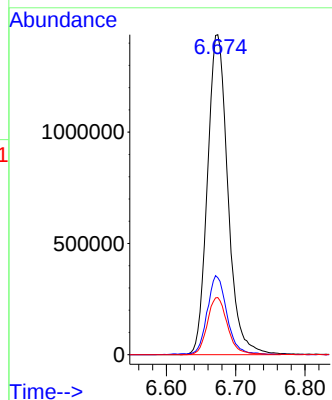
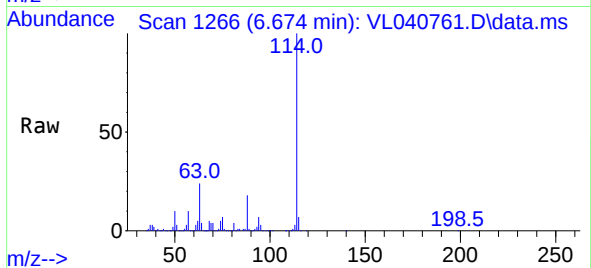
Tgt Ion:114 Resp: 2941460

Ion Ratio Lower Upper

114 100

63 24.2 19.8 29.6

88 17.7 14.2 21.2



#34

2-Butanone

Concen: 10.242 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.010 min

Lab File: VL040761.D

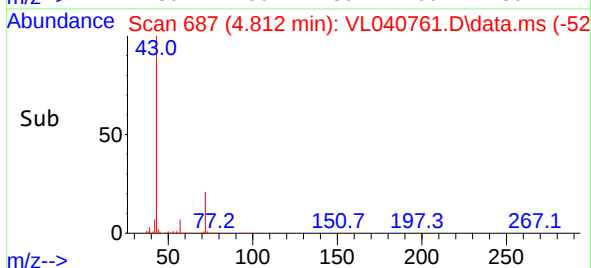
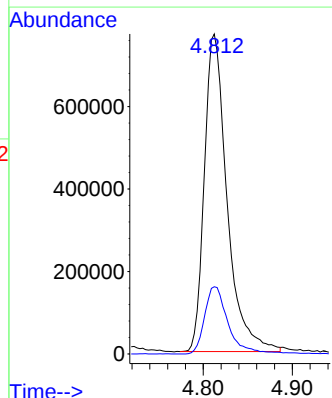
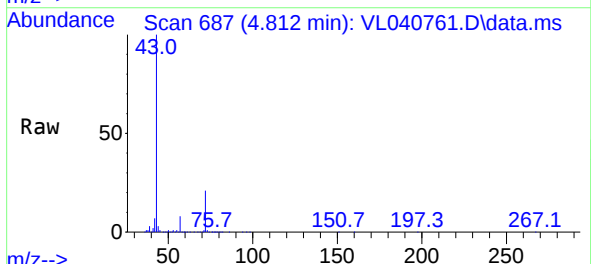
Acq: 11 Oct 2023 16:45

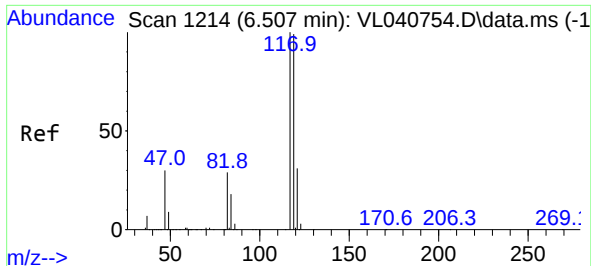
Tgt Ion: 43 Resp: 1363646

Ion Ratio Lower Upper

43 100

72 22.5 16.8 25.2

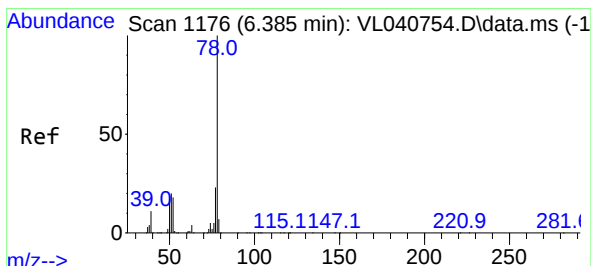
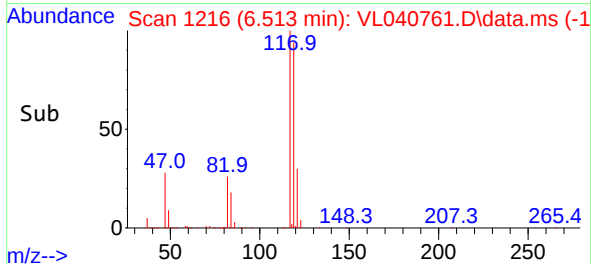
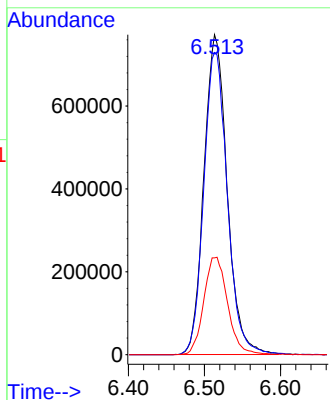
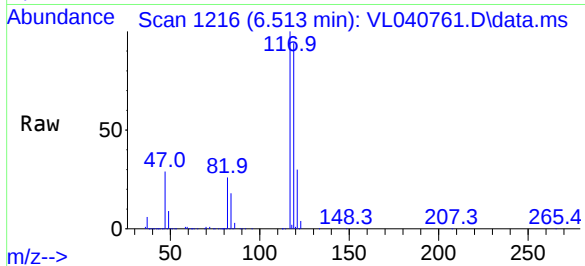




#35  
Carbon Tetrachloride  
Concen: 9.929 ppbv  
RT: 6.513 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

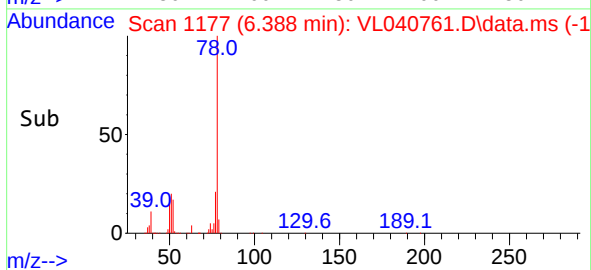
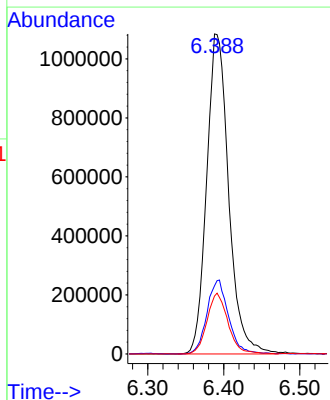
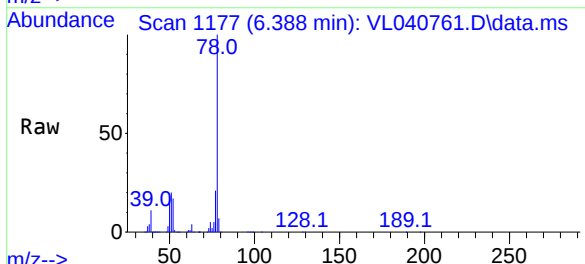
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101123

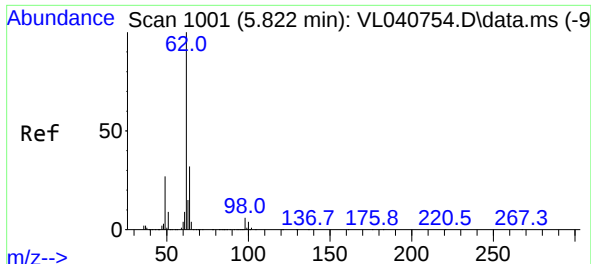
Tgt Ion:117 Resp: 1639275  
Ion Ratio Lower Upper  
117 100  
119 94.4 79.4 119.0  
121 30.2 25.0 37.4



#36  
Benzene  
Concen: 9.640 ppbv  
RT: 6.388 min Scan# 1177  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 78 Resp: 2181147  
Ion Ratio Lower Upper  
78 100  
77 21.2 18.4 27.6  
50 18.1 15.0 22.4

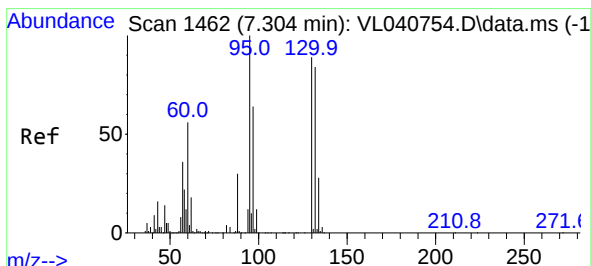
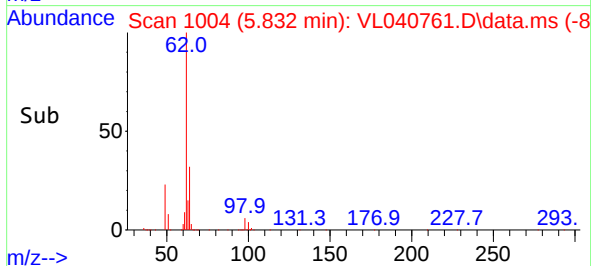
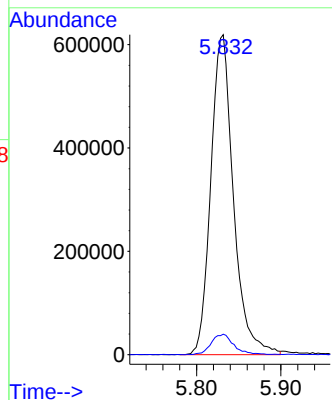
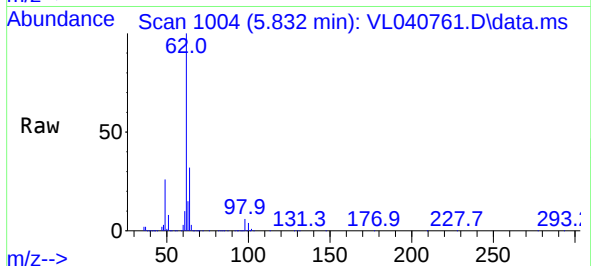




#37  
1,2-Dichloroethane  
Concen: 9.963 ppbv  
RT: 5.832 min Scan# 1001  
Delta R.T. 0.010 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

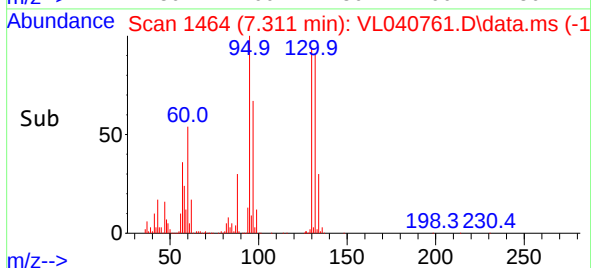
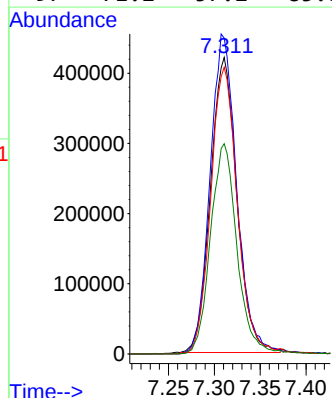
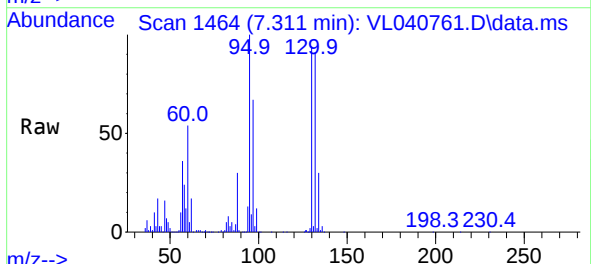
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

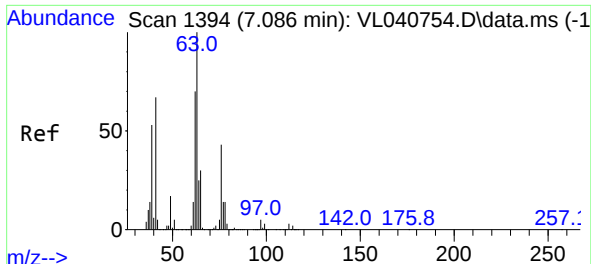
Tgt Ion: 62 Resp: 1154402  
Ion Ratio Lower Upper  
62 100  
98 6.6 5.4 8.0



#38  
Trichloroethene  
Concen: 8.437 ppbv  
RT: 7.311 min Scan# 1464  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:130 Resp: 844754  
Ion Ratio Lower Upper  
130 100  
95 107.0 89.4 134.2  
132 97.1 74.8 112.2  
97 71.2 57.2 85.8





#39

1,2-Dichloropropane

Concen: 9.530 ppbv

RT: 7.092 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101123

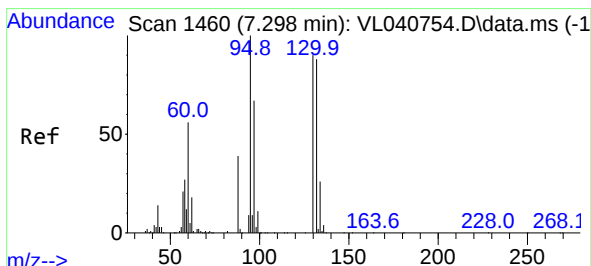
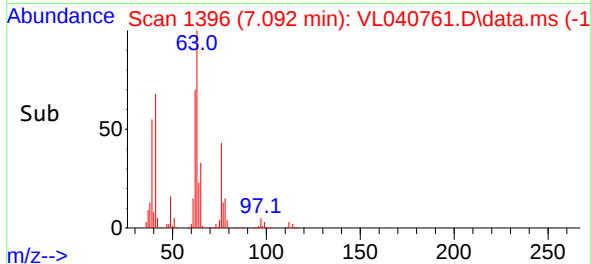
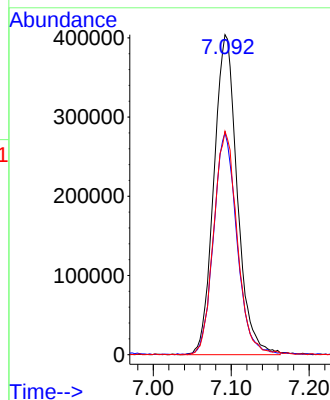
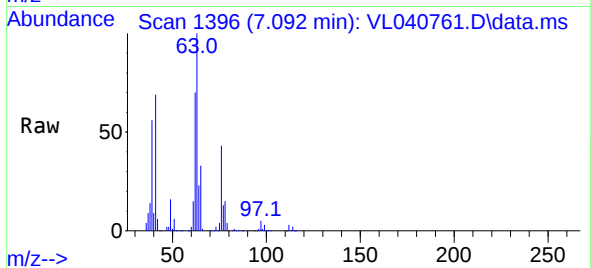
Tgt Ion: 63 Resp: 842344

Ion Ratio Lower Upper

63 100

41 69.3 53.7 80.5

62 69.8 55.7 83.5



#40

1,4-Dioxane

Concen: 10.567 ppbv

RT: 7.301 min Scan# 1461

Delta R.T. 0.003 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Tgt Ion: 88 Resp: 353468

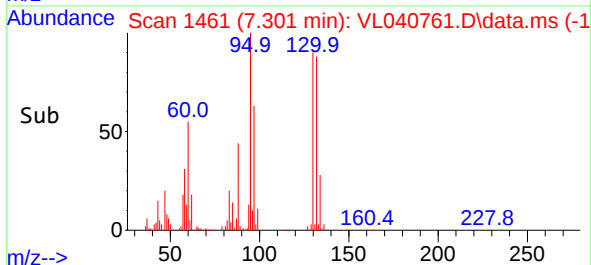
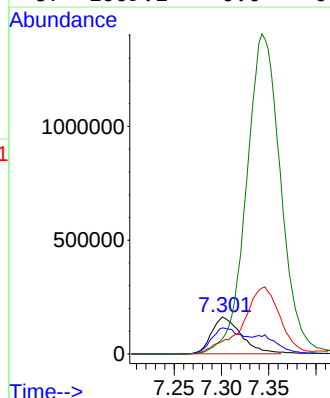
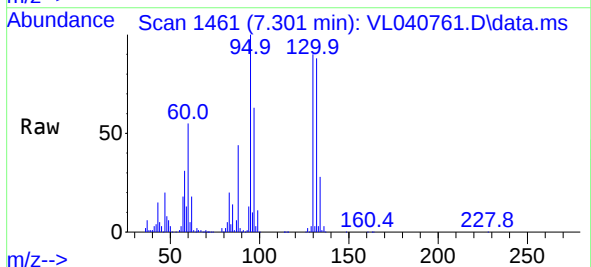
Ion Ratio Lower Upper

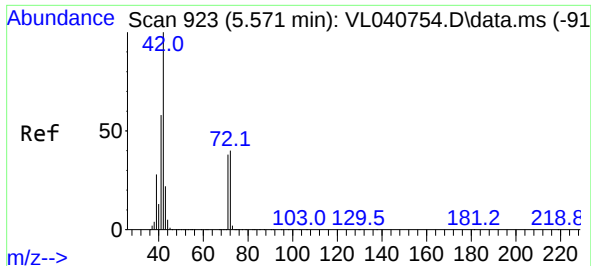
88 100

58 119.0 100.0 150.0

43 231.9 0.0 0.0#

57 1009.1 0.0 0.0#

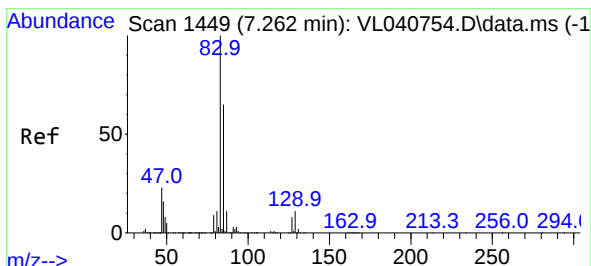
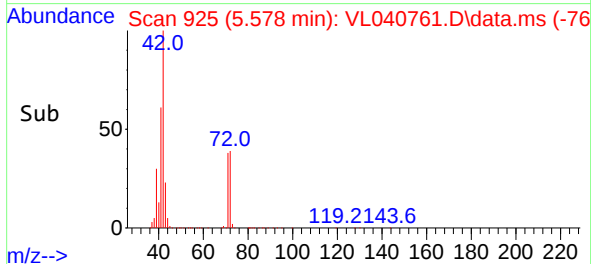
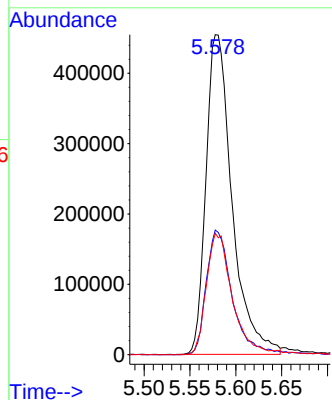
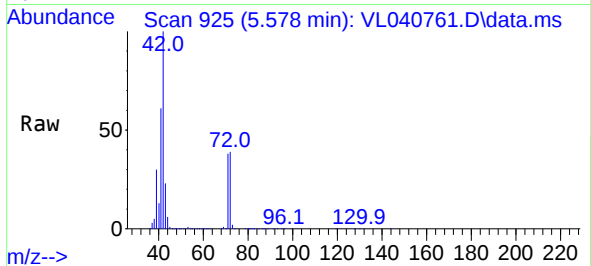




#41  
Tetrahydrofuran  
Concen: 9.747 ppbv  
RT: 5.578 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

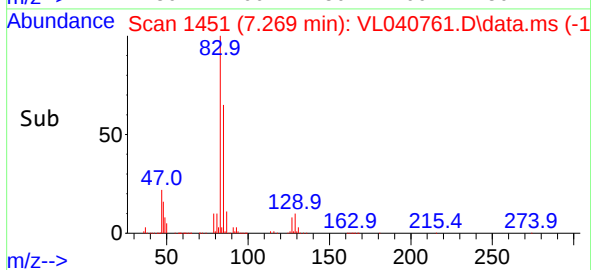
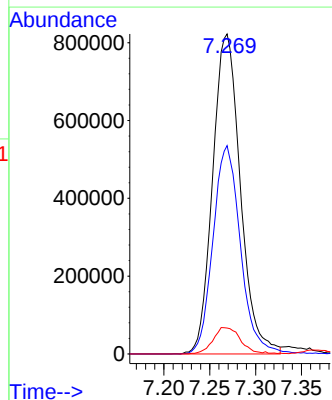
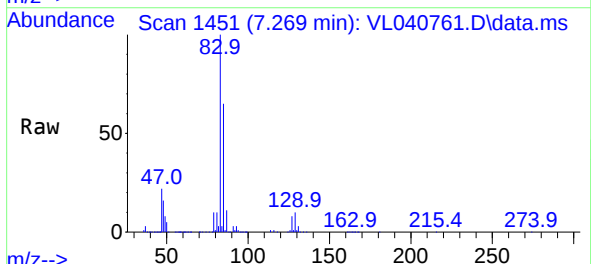
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

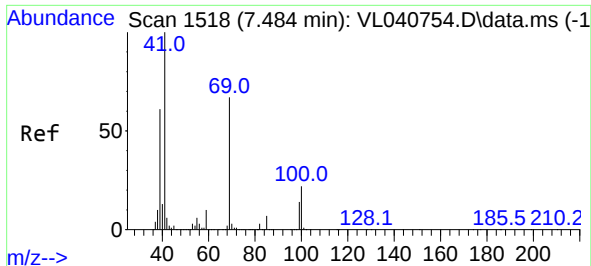
Tgt Ion: 42 Resp: 898673  
Ion Ratio Lower Upper  
42 100  
72 39.6 31.1 46.7  
71 38.7 29.7 44.5



#42  
Bromodichloromethane  
Concen: 9.954 ppbv  
RT: 7.269 min Scan# 1451  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 83 Resp: 1727848  
Ion Ratio Lower Upper  
83 100  
85 65.1 52.1 78.1  
127 8.1 6.7 10.1

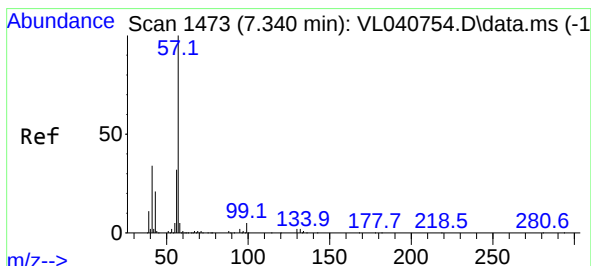
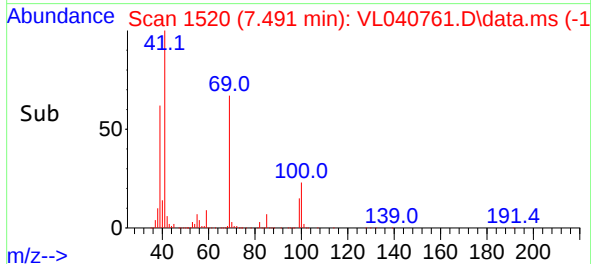
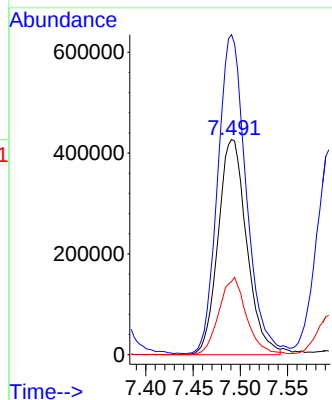
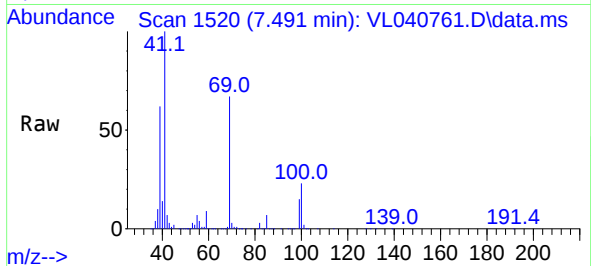




#43  
Methyl Methacrylate  
Concen: 9.893 ppbv  
RT: 7.491 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

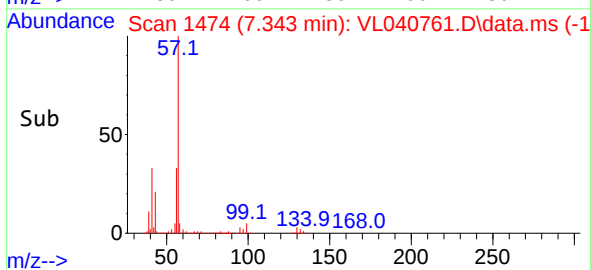
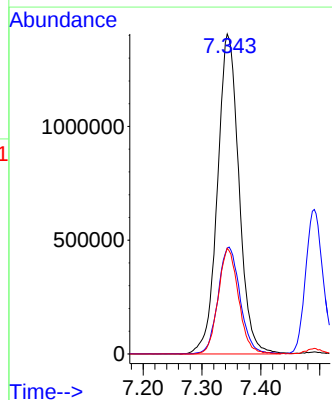
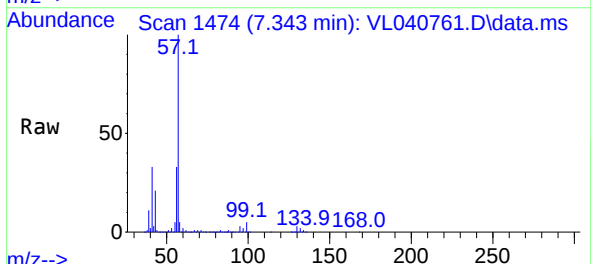
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

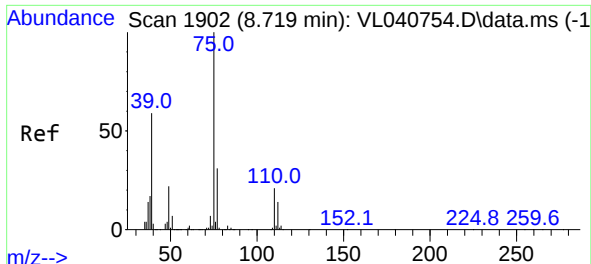
Tgt Ion: 69 Resp: 895957  
Ion Ratio Lower Upper  
69 100  
41 148.8 120.6 181.0  
100 34.7 27.1 40.7



#44  
2,2,4-Trimethylpentane  
Concen: 9.310 ppbv  
RT: 7.343 min Scan# 1474  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 57 Resp: 3562095  
Ion Ratio Lower Upper  
57 100  
41 34.2 27.4 41.0  
56 31.4 25.0 37.6

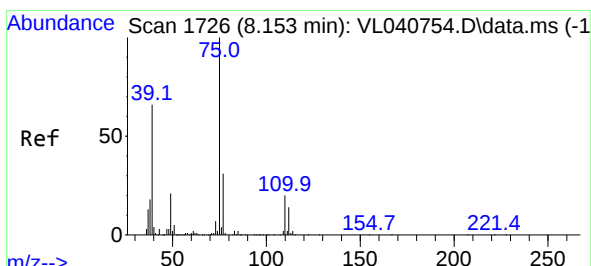
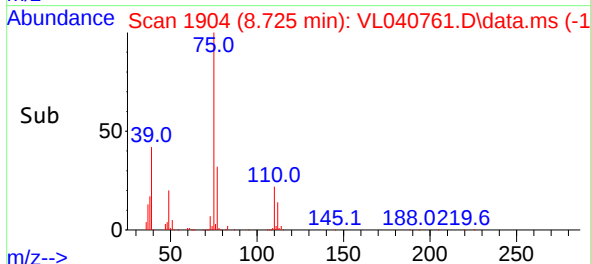
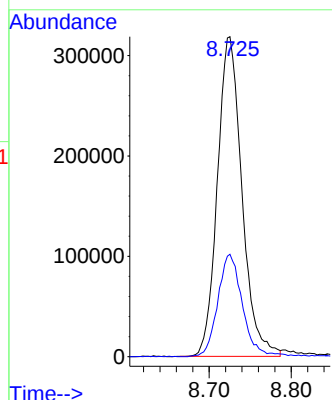
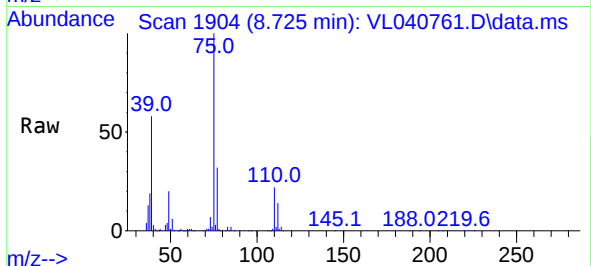




#45  
 t-1,3-Dichloropropene  
 Concen: 9.182 ppbv  
 RT: 8.725 min Scan# 1902  
 Delta R.T. 0.006 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

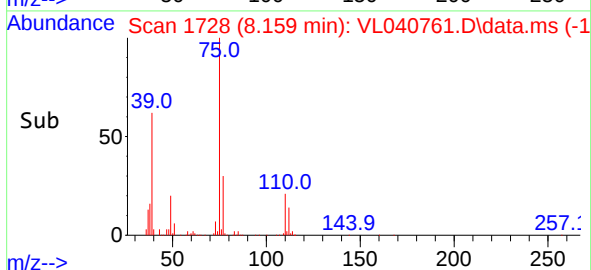
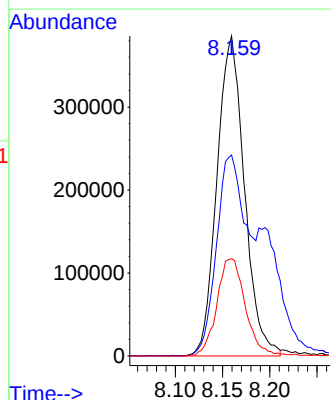
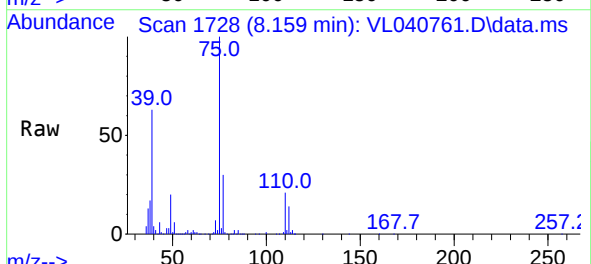
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

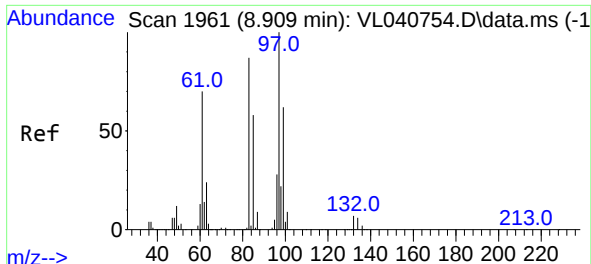
Tgt Ion: 75 Resp: 663097  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 24.9 37.3



#46  
 cis-1,3-Dichloropropene  
 Concen: 8.823 ppbv  
 RT: 8.159 min Scan# 1728  
 Delta R.T. 0.006 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Tgt Ion: 75 Resp: 778441  
 Ion Ratio Lower Upper  
 75 100  
 39 62.7 52.4 78.6  
 77 30.3 25.1 37.7





#47

1,1,2-Trichloroethane

Concen: 9.538 ppbv

RT: 8.912 min Scan# 1961

Delta R.T. 0.003 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101123

Tgt Ion: 97 Resp: 885595

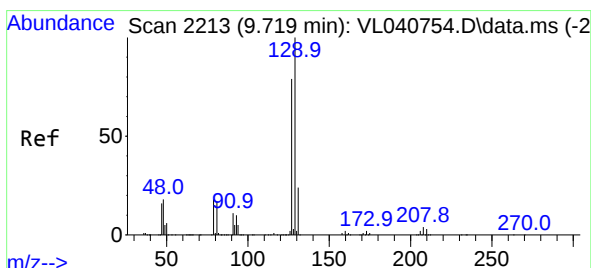
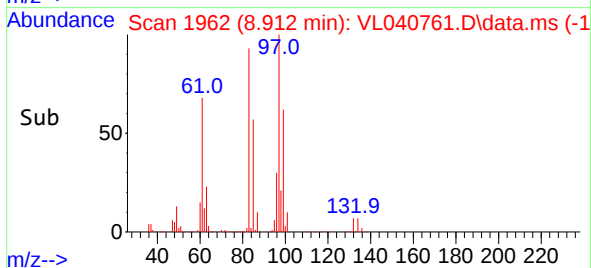
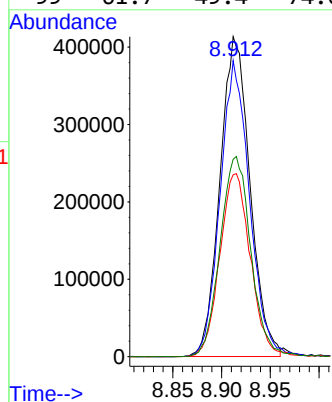
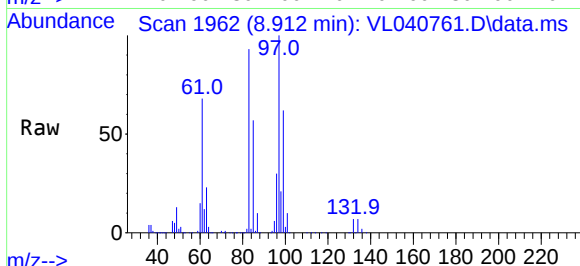
Ion Ratio Lower Upper

97 100

83 92.5 69.5 104.3

85 56.8 46.6 69.8

99 61.7 49.4 74.0



#48

Dibromochloromethane

Concen: 10.156 ppbv

RT: 9.722 min Scan# 2214

Delta R.T. 0.003 min

Lab File: VL040761.D

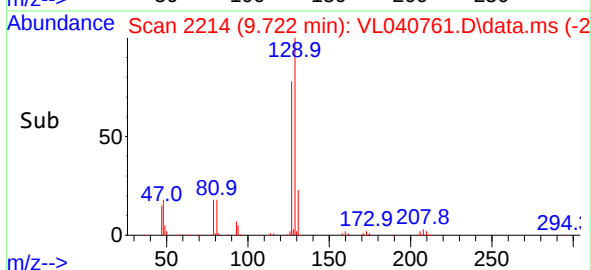
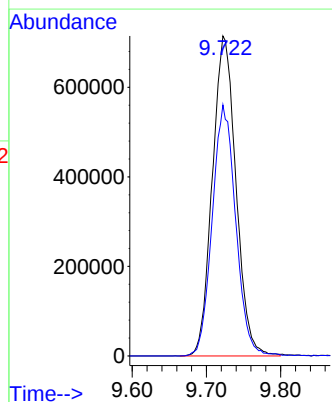
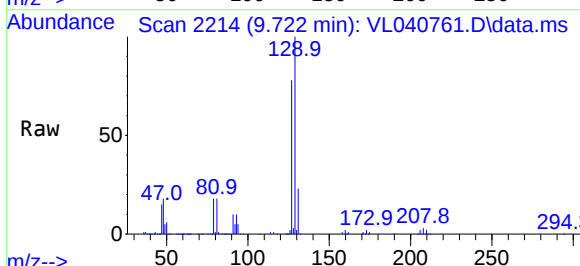
Acq: 11 Oct 2023 16:45

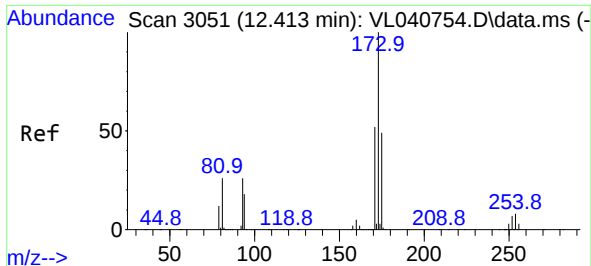
Tgt Ion: 129 Resp: 1580287

Ion Ratio Lower Upper

129 100

127 78.1 39.1 117.3

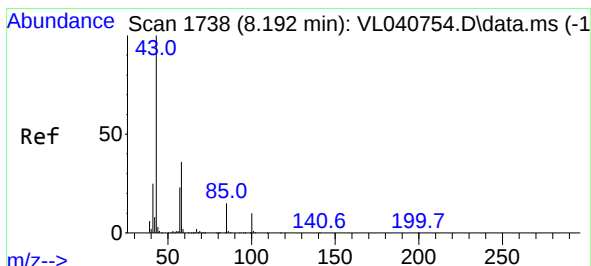
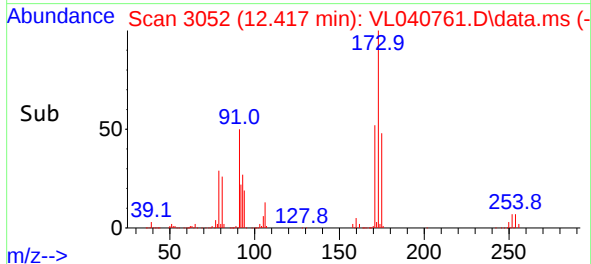
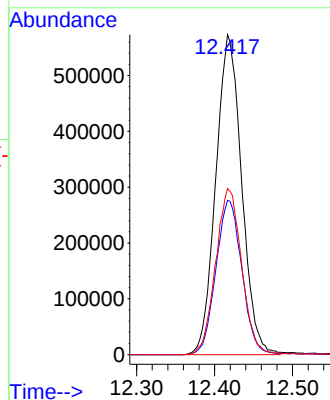
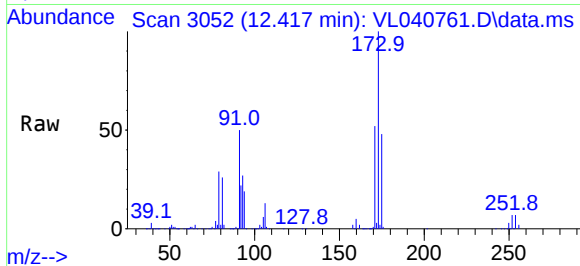




#49  
Bromoform  
Concen: 10.449 ppbv  
RT: 12.417 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

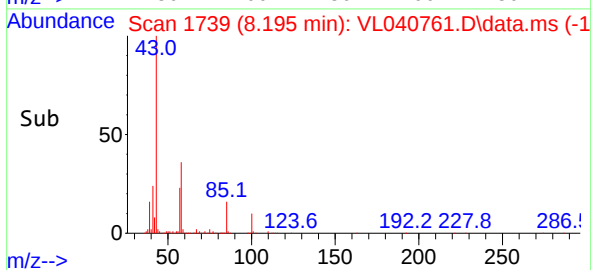
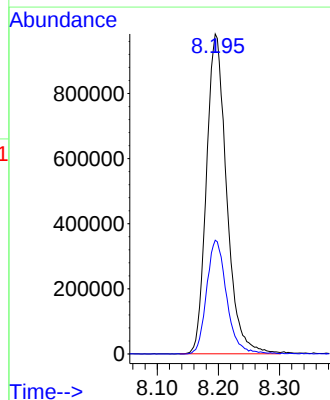
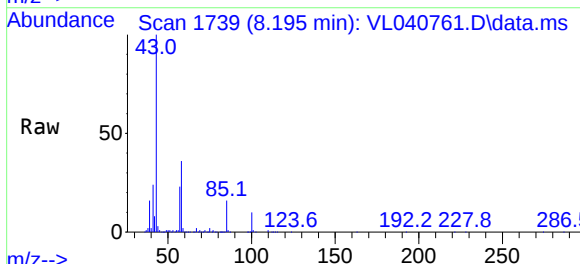
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

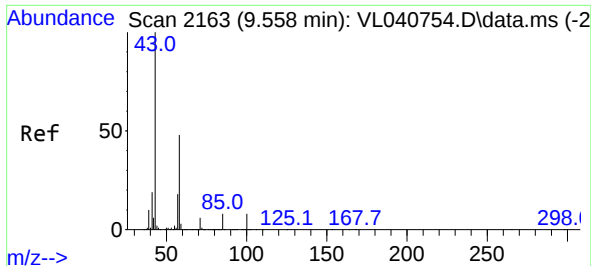
Tgt Ion:173 Resp: 1321649  
Ion Ratio Lower Upper  
173 100  
175 48.8 39.2 58.8  
171 52.3 42.0 63.0



#50  
4-Methyl-2-Pentanone  
Concen: 9.901 ppbv  
RT: 8.195 min Scan# 1739  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 43 Resp: 2255211  
Ion Ratio Lower Upper  
43 100  
58 35.4 28.8 43.2

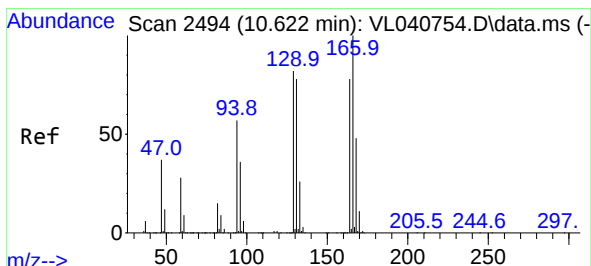
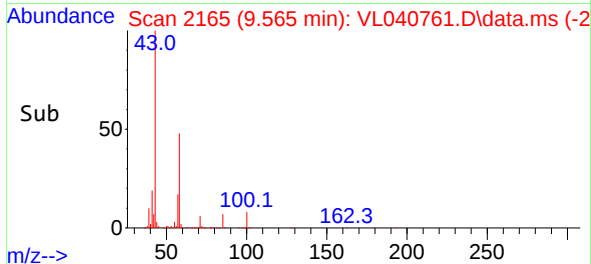
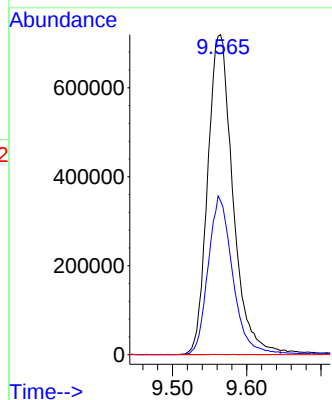
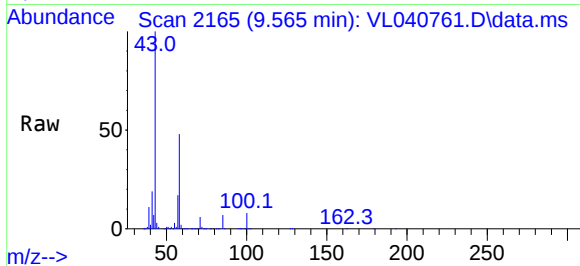




#51  
2-Hexanone  
Concen: 9.775 ppbv  
RT: 9.565 min Scan# 2163  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

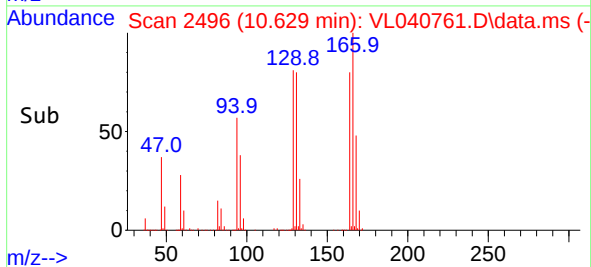
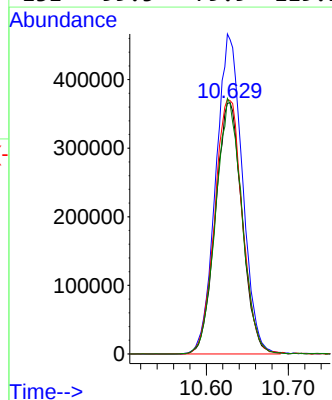
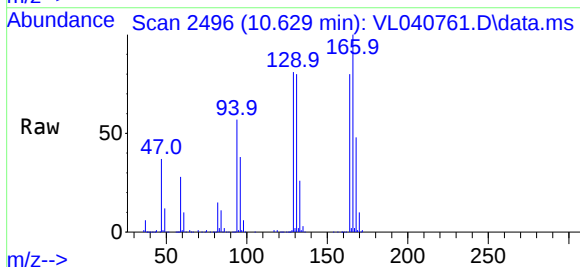
Instrument : MSVOA\_L  
ClientSampleId : ICVVL101123

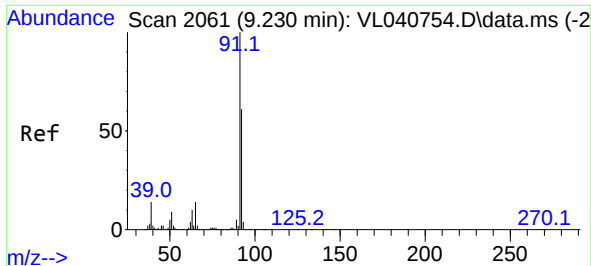
Tgt Ion: 43 Resp: 1694470  
Ion Ratio Lower Upper  
43 100  
58 48.7 38.6 58.0  
98 0.1 0.0 0.0#



#52  
Tetrachloroethene  
Concen: 9.000 ppbv  
RT: 10.629 min Scan# 2496  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 164 Resp: 827075  
Ion Ratio Lower Upper  
164 100  
166 125.0 102.4 153.6  
129 100.7 84.2 126.4  
131 99.5 79.9 119.9

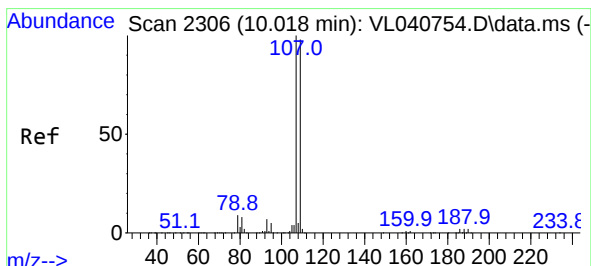
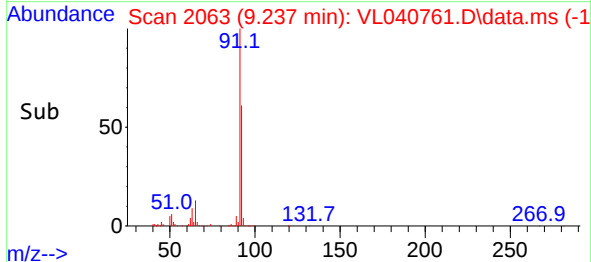
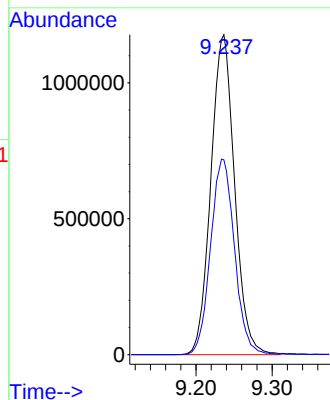
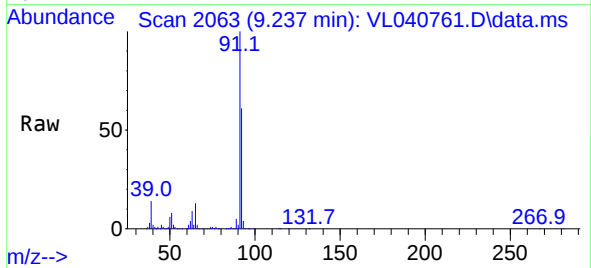




#53  
Toluene  
Concen: 9.465 ppbv  
RT: 9.237 min Scan# 2061  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

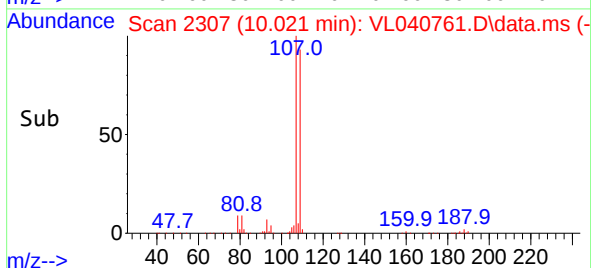
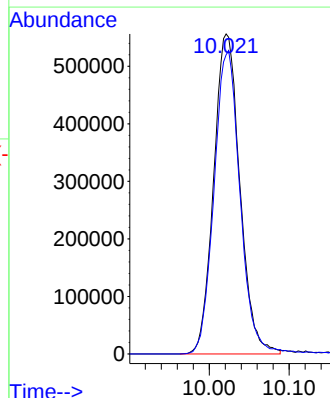
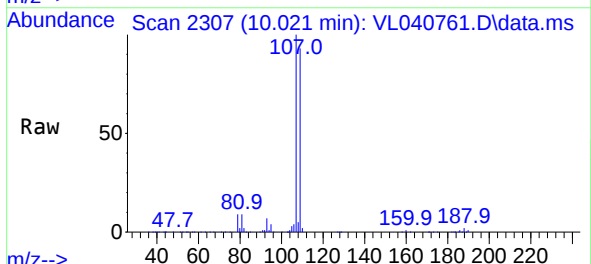
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

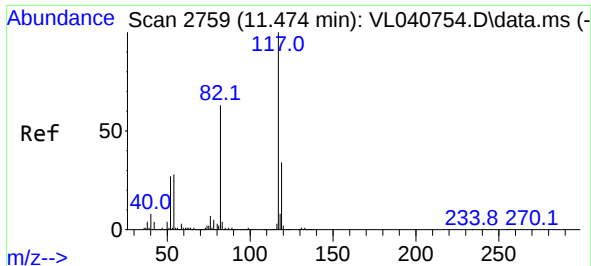
Tgt Ion: 91 Resp: 2548669  
Ion Ratio Lower Upper  
91 100  
92 62.0 50.2 75.2



#54  
1,2-Dibromoethane  
Concen: 9.709 ppbv  
RT: 10.021 min Scan# 2307  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 107 Resp: 1263716  
Ion Ratio Lower Upper  
107 100  
109 93.5 78.2 117.2

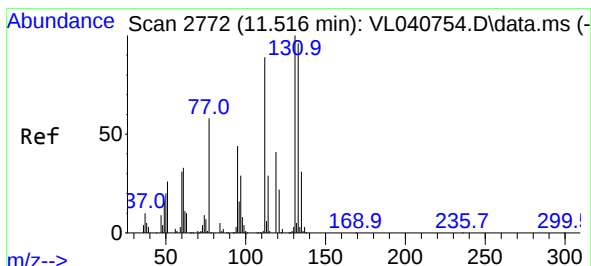
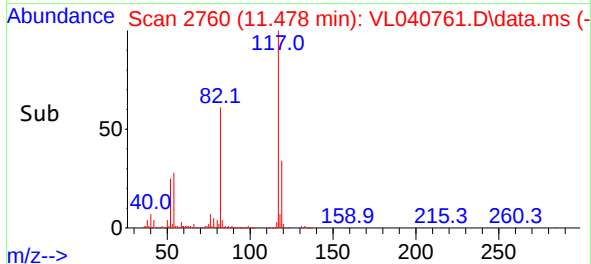
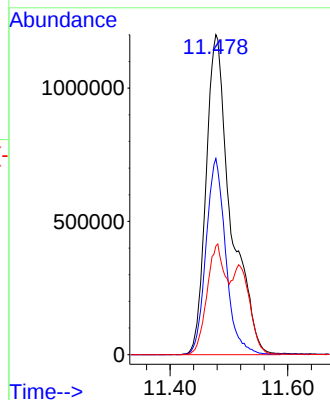
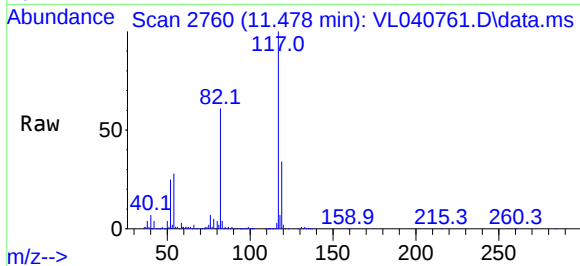




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.478 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

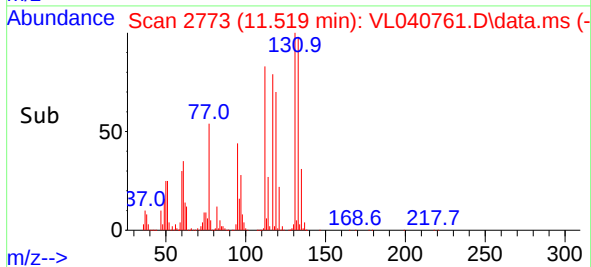
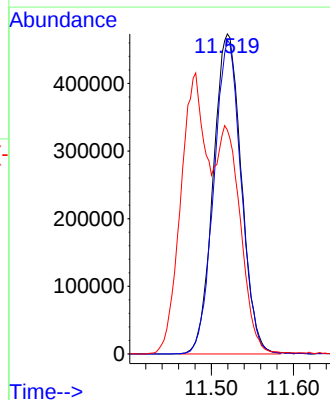
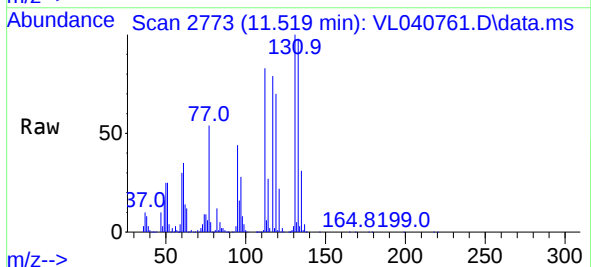
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

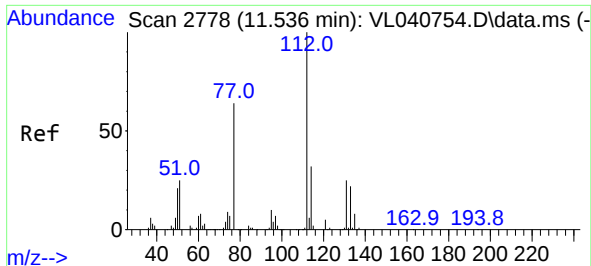
Tgt Ion:117 Resp: 3501994  
Ion Ratio Lower Upper  
117 100  
82 49.5 46.6 70.0  
119 29.3 26.0 39.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.858 ppbv  
RT: 11.519 min Scan# 2773  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:131 Resp: 1123036  
Ion Ratio Lower Upper  
131 100  
133 95.8 75.0 112.6  
119 64.1 45.4 68.0

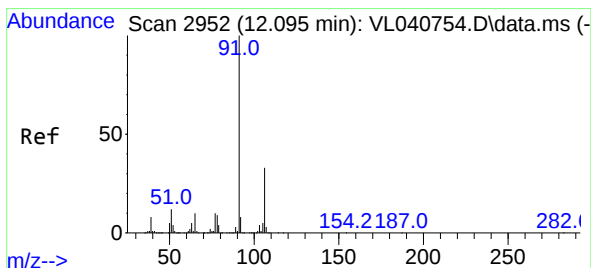
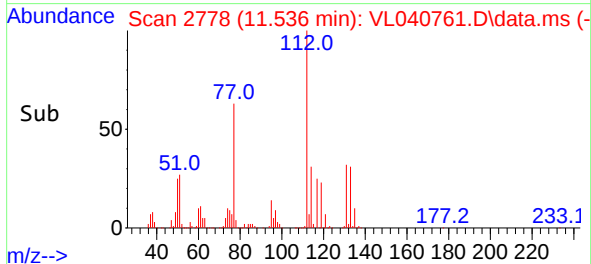
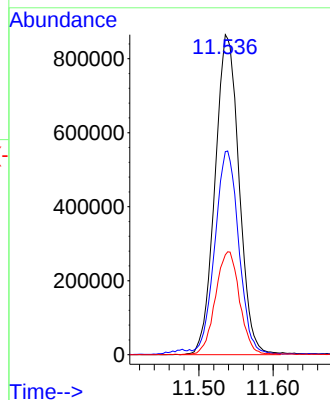
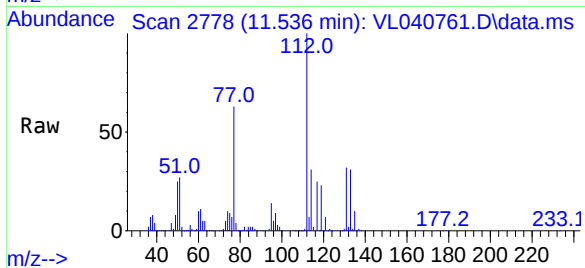




#57  
Chlorobenzene  
Concen: 7.774 ppbv  
RT: 11.536 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

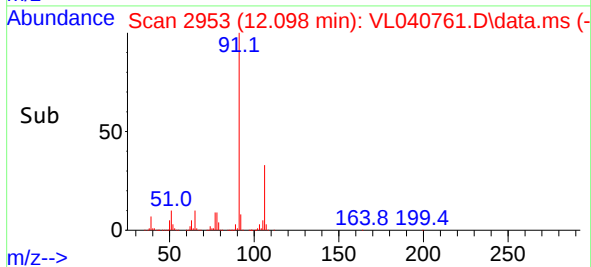
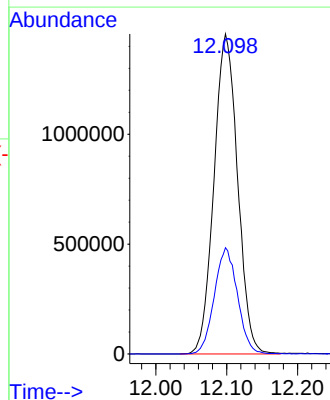
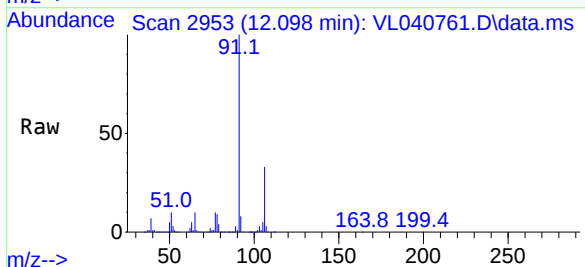
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

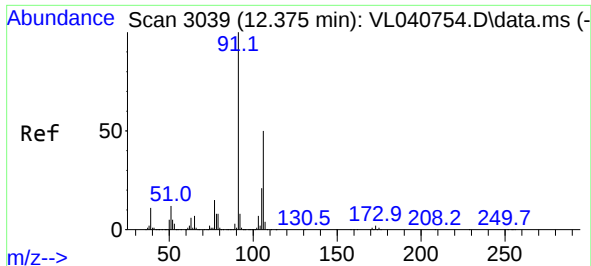
Tgt Ion:112 Resp: 1950604  
Ion Ratio Lower Upper  
112 100  
77 63.1 51.9 77.9  
114 31.2 28.6 35.0



#58  
Ethyl Benzene  
Concen: 7.652 ppbv  
RT: 12.098 min Scan# 2953  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 91 Resp: 3373967  
Ion Ratio Lower Upper  
91 100  
106 33.2 26.7 40.1





#59

m/p-Xylene

Concen: 8.652 ppbv

RT: 12.381 min Scan# 3039

Delta R.T. 0.006 min

Lab File: VL040761.D

Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

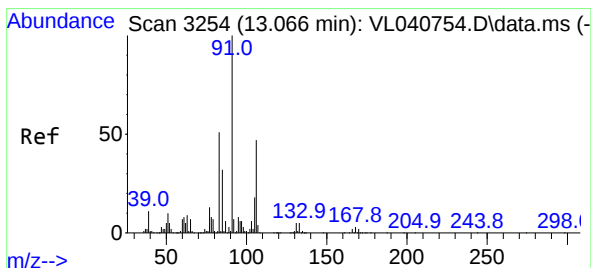
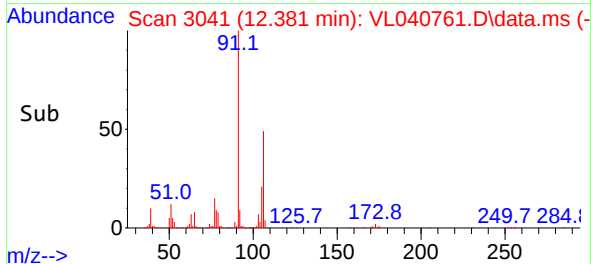
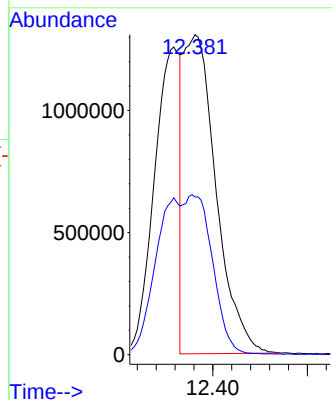
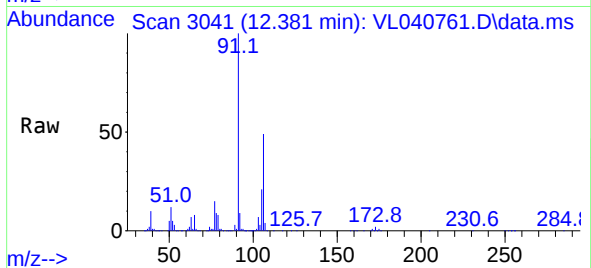
ICVVL101123

Tgt Ion: 91 Resp: 3139901

Ion Ratio Lower Upper

91 100

106 83.2 37.7 56.5#



#60

o-Xylene

Concen: 7.576 ppbv

RT: 13.072 min Scan# 3256

Delta R.T. 0.006 min

Lab File: VL040761.D

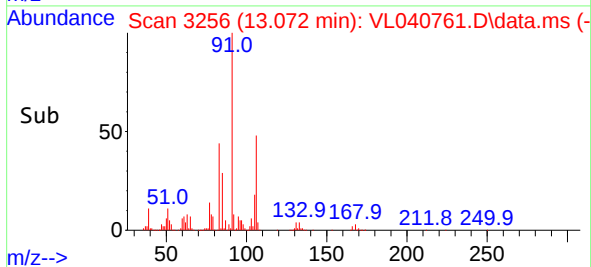
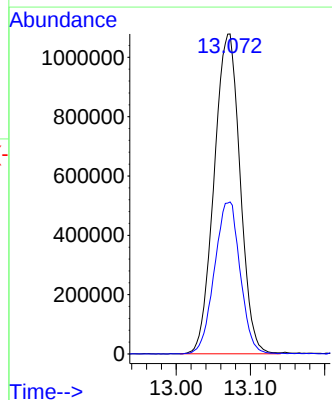
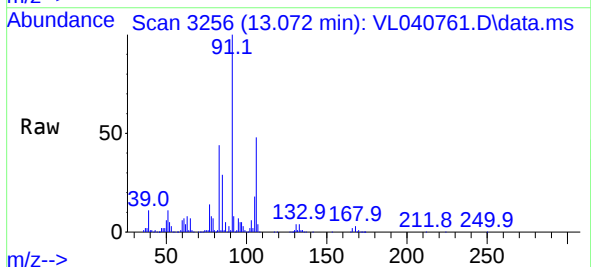
Acq: 11 Oct 2023 16:45

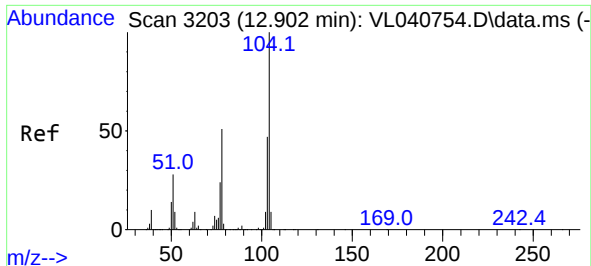
Tgt Ion: 91 Resp: 2619599

Ion Ratio Lower Upper

91 100

106 47.2 23.5 70.5

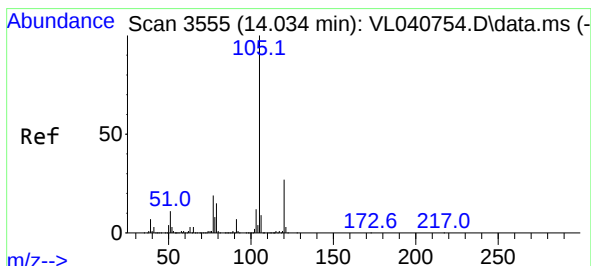
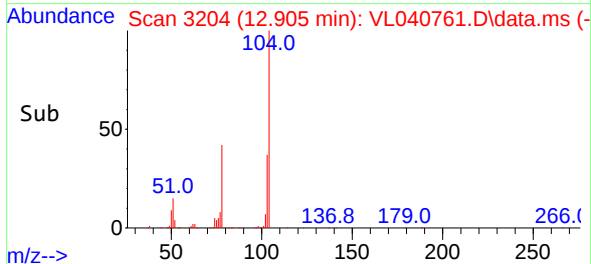
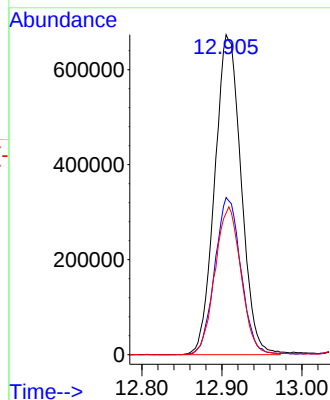
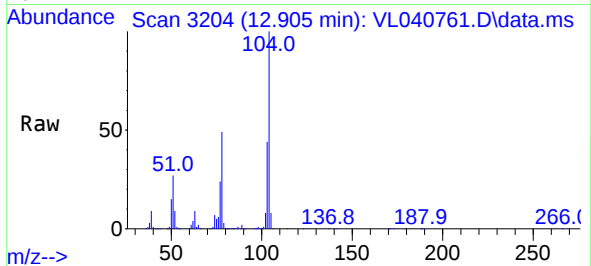




#61  
Styrene  
Concen: 8.046 ppbv  
RT: 12.905 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

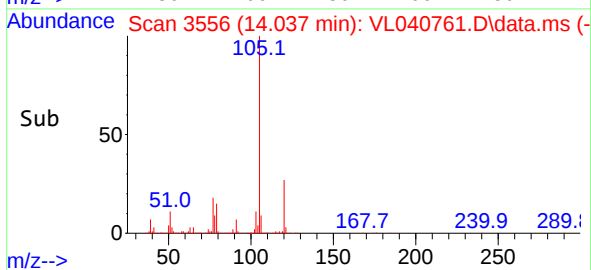
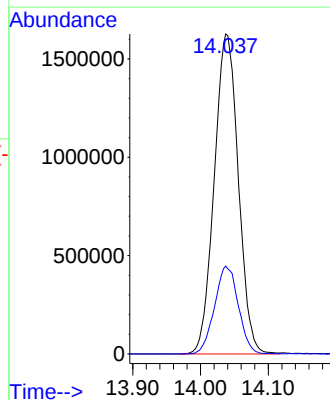
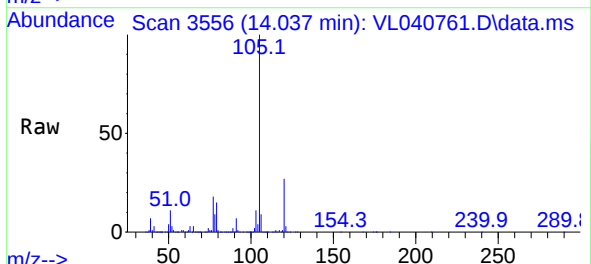
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

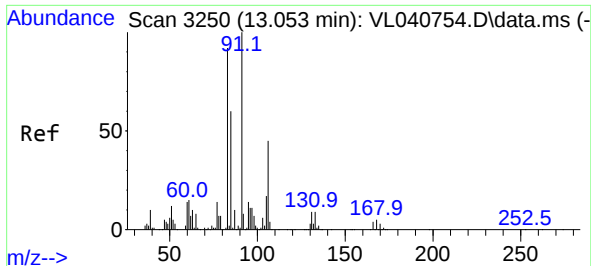
Tgt Ion:104 Resp: 1541469  
Ion Ratio Lower Upper  
104 100  
78 48.8 39.8 59.6  
103 46.1 37.5 56.3



#62  
Isopropylbenzene  
Concen: 7.537 ppbv  
RT: 14.037 min Scan# 3556  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:105 Resp: 4009173  
Ion Ratio Lower Upper  
105 100  
120 27.2 21.5 32.3

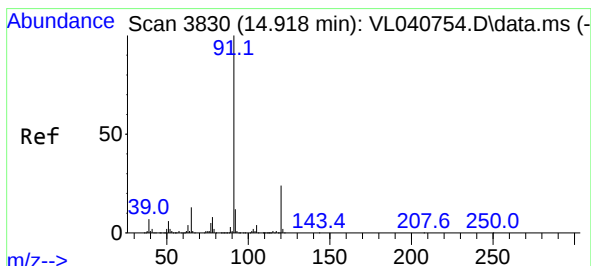
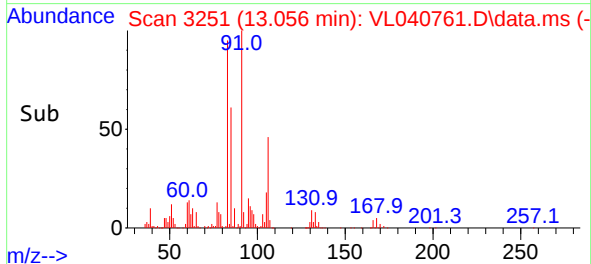
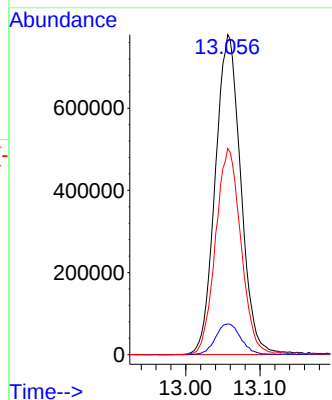
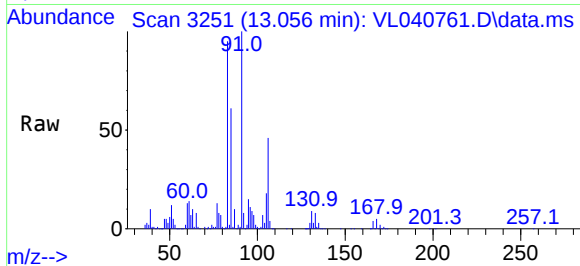




#63  
1,1,2,2-Tetrachloroethane  
Concen: 7.146 ppbv  
RT: 13.056 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

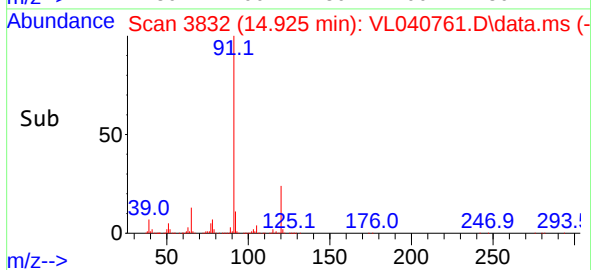
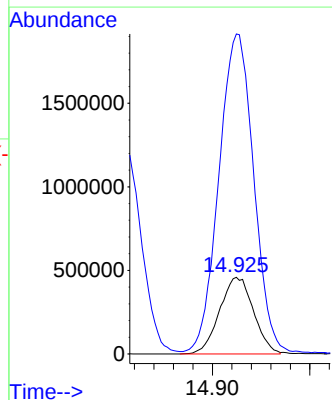
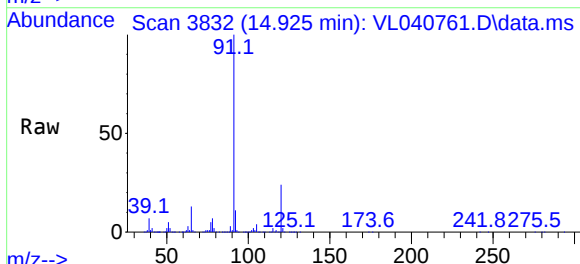
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

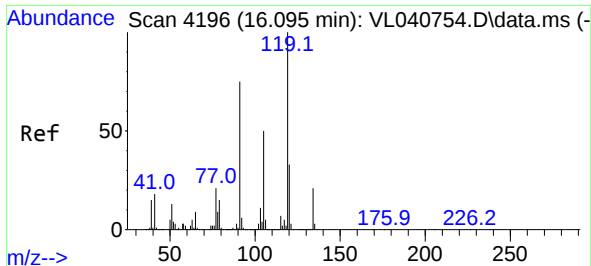
Tgt Ion: 83 Resp: 1852551  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.9 14.6  
85 65.2 32.9 98.7



#64  
n-propylbenzene  
Concen: 7.754 ppbv  
RT: 14.925 min Scan# 3832  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:120 Resp: 1108047  
Ion Ratio Lower Upper  
120 100  
91 433.5 345.9 518.9

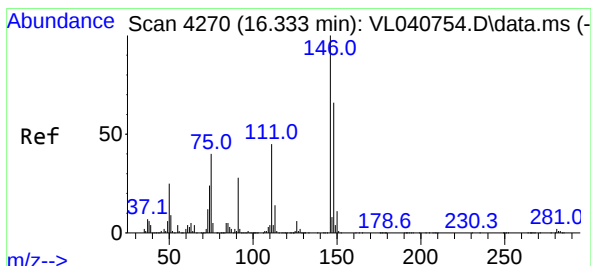
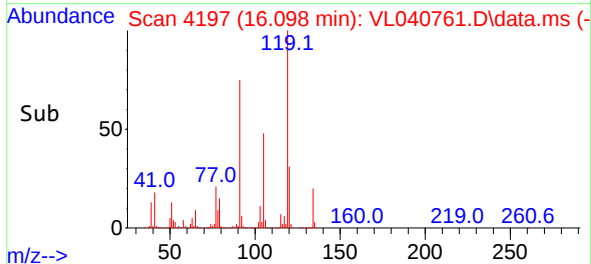
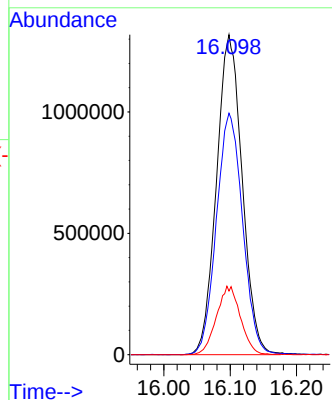
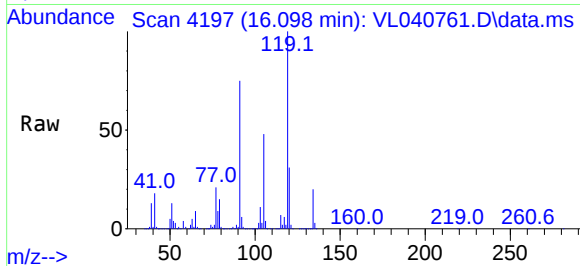




#65  
tert-Butylbenzene  
Concen: 7.381 ppbv  
RT: 16.098 min Scan# 4196  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

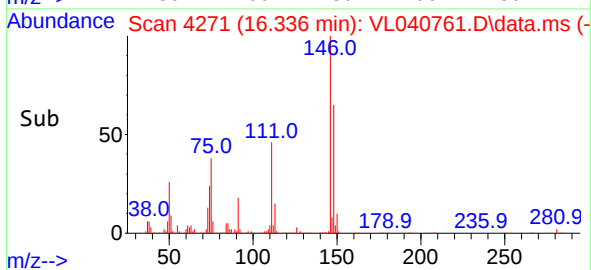
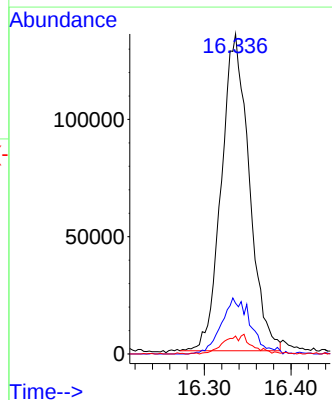
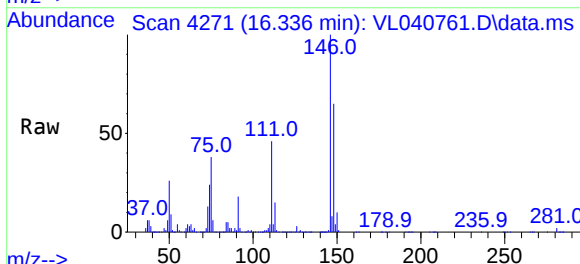
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

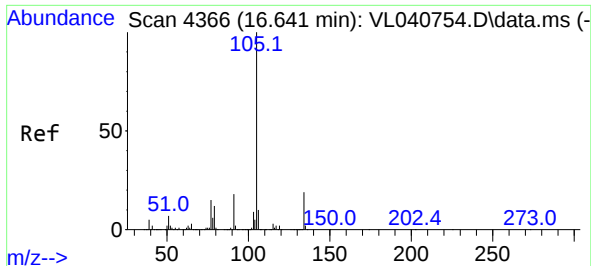
Tgt Ion:119 Resp: 3541064  
Ion Ratio Lower Upper  
119 100  
91 77.1 62.2 93.2  
134 20.1 16.1 24.1



#66  
Benzyl Chloride  
Concen: 6.224 ppbv  
RT: 16.336 min Scan# 4271  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 91 Resp: 300841  
Ion Ratio Lower Upper  
91 100  
126 19.1 16.1 24.1  
128 6.3 5.2 7.8

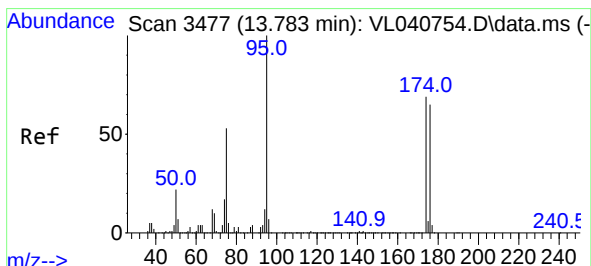
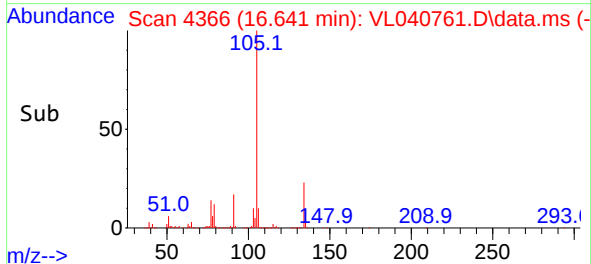
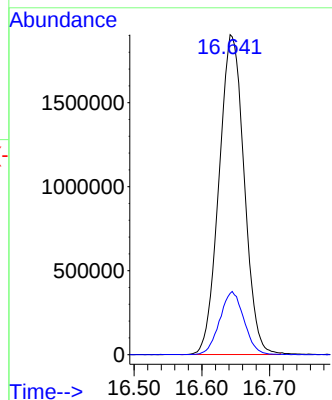
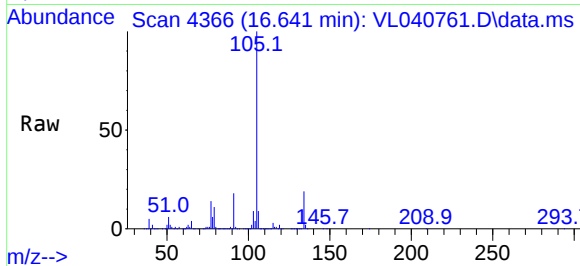




#67  
 sec-Butylbenzene  
 Concen: 7.469 ppbv  
 RT: 16.641 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

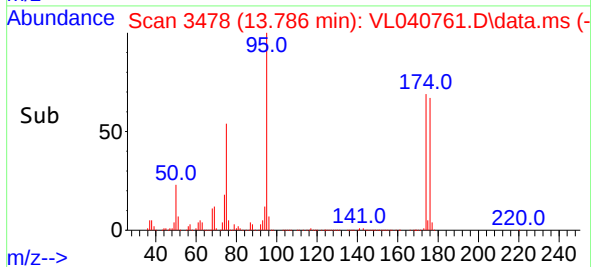
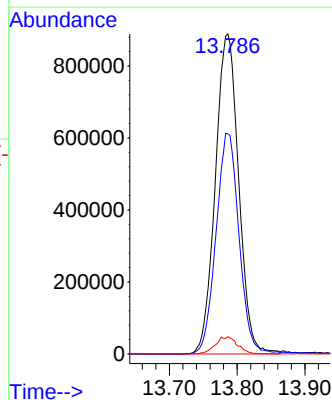
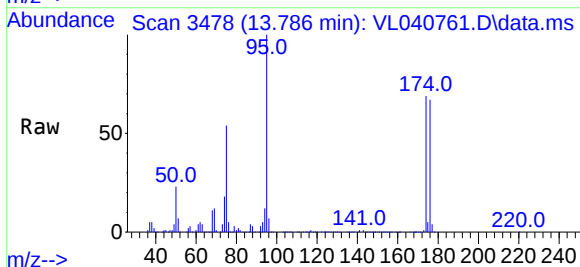
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101123

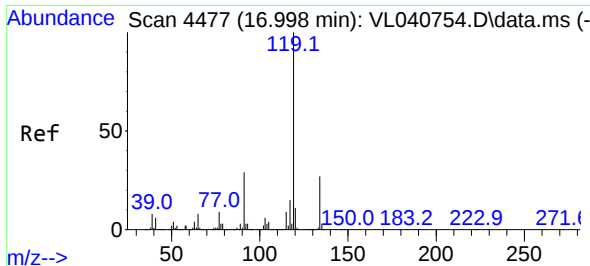
Tgt Ion:105 Resp: 4906427  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 15.4 23.2



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.247 ppbv  
 RT: 13.786 min Scan# 3478  
 Delta R.T. 0.003 min  
 Lab File: VL040761.D  
 Acq: 11 Oct 2023 16:45

Tgt Ion: 95 Resp: 2125235  
 Ion Ratio Lower Upper  
 95 100  
 174 68.6 54.7 82.1  
 175 5.2 4.2 6.4

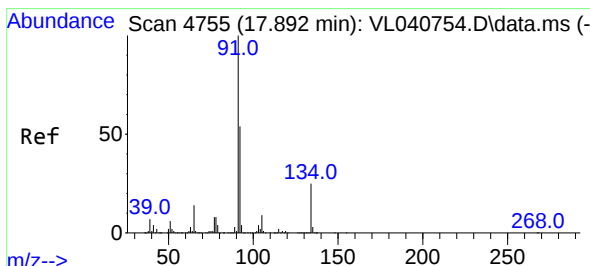
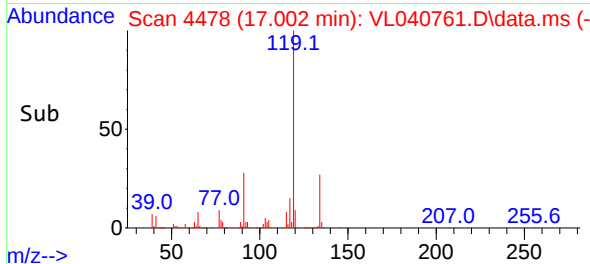
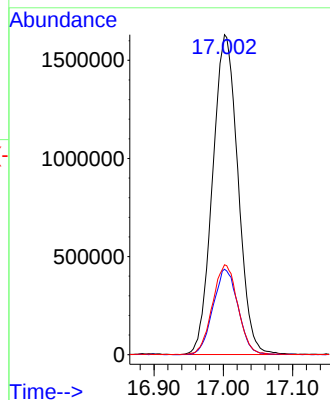
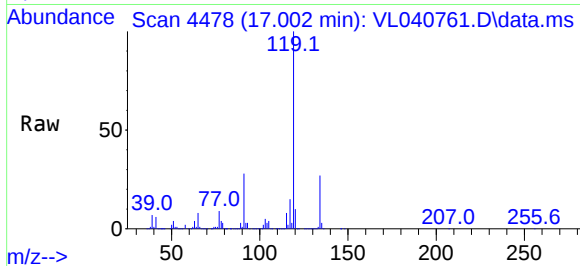




#69  
p-Isopropyltoluene  
Concen: 7.531 ppbv  
RT: 17.002 min Scan# 4477  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

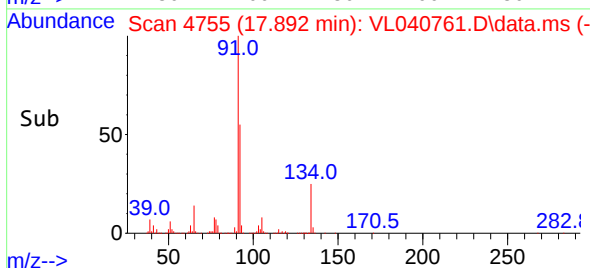
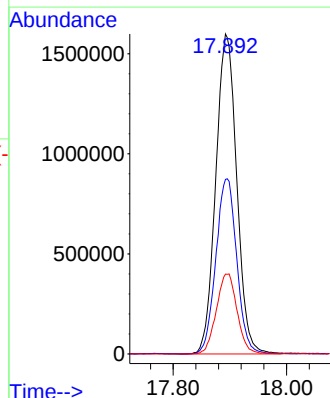
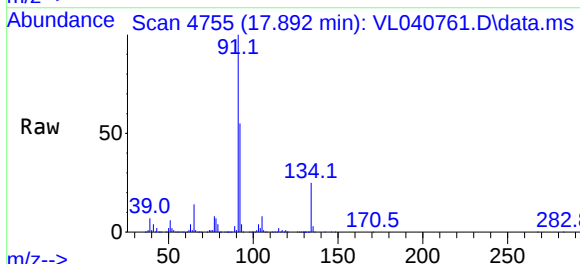
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

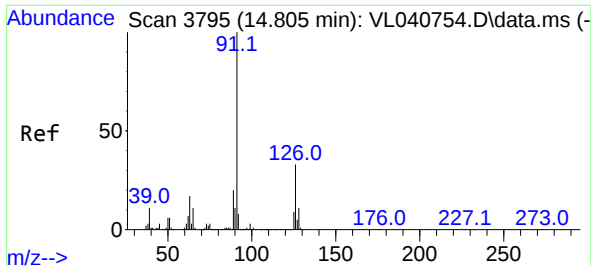
Tgt Ion:119 Resp: 4145117  
Ion Ratio Lower Upper  
119 100  
134 26.4 21.0 31.4  
91 28.1 22.8 34.2



#70  
n-Butylbenzene  
Concen: 7.606 ppbv  
RT: 17.892 min Scan# 4755  
Delta R.T. 0.000 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 91 Resp: 4111100  
Ion Ratio Lower Upper  
91 100  
92 54.6 44.1 66.1  
134 24.9 19.5 29.3

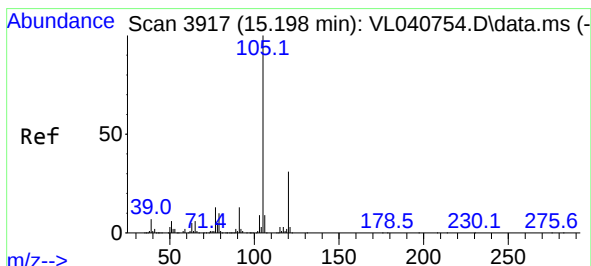
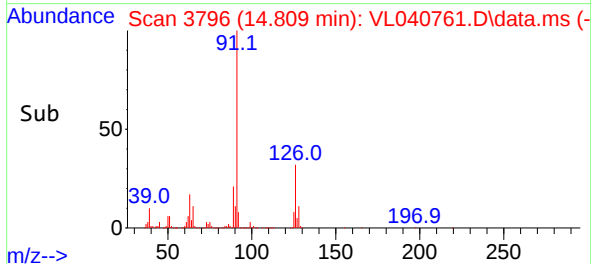
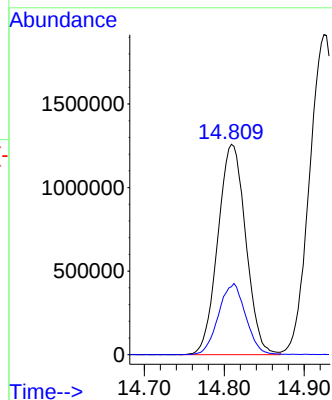
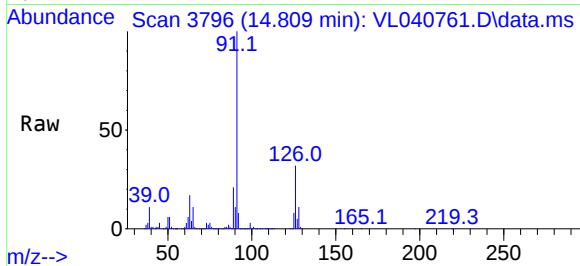




#71  
2-Chlorotoluene  
Concen: 7.633 ppbv  
RT: 14.809 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

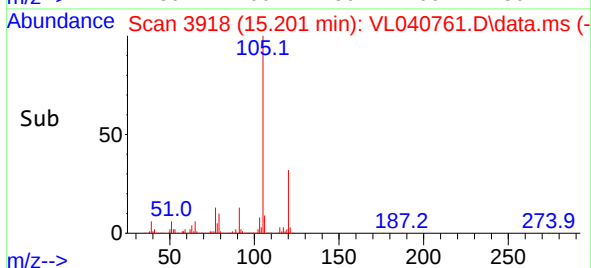
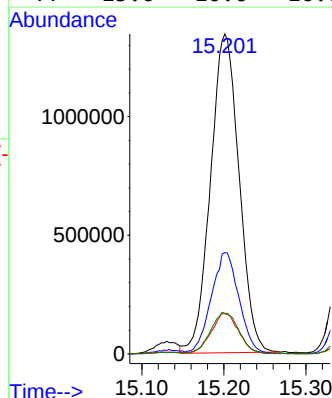
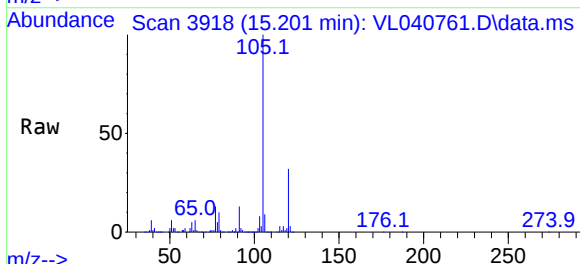
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

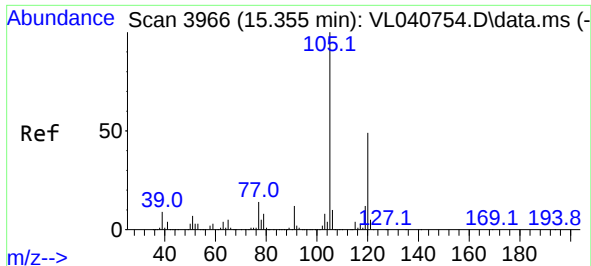
Tgt Ion: 91 Resp: 3050025  
Ion Ratio Lower Upper  
91 100  
126 33.0 13.3 53.1



#72  
4-Ethyltoluene  
Concen: 8.033 ppbv  
RT: 15.201 min Scan# 3918  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion: 105 Resp: 3252920  
Ion Ratio Lower Upper  
105 100  
120 31.3 25.0 37.4  
91 13.1 9.8 14.8  
77 13.6 10.6 16.0

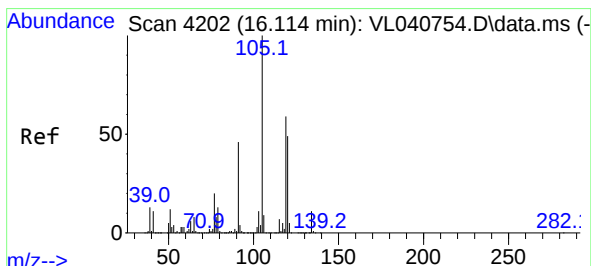
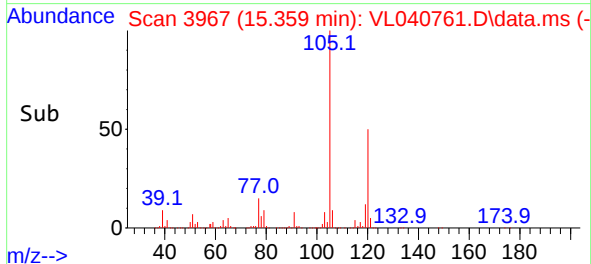
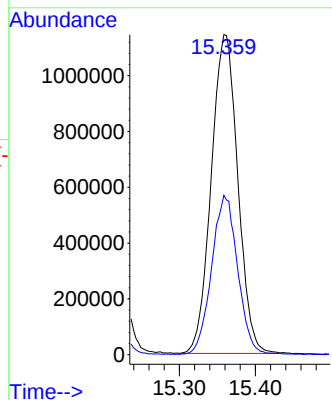
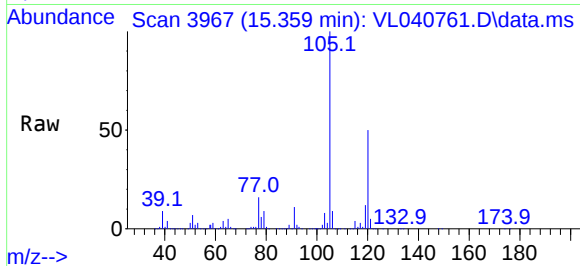




#73  
1,3,5-Trimethylbenzene  
Concen: 7.781 ppbv  
RT: 15.359 min Scan# 3966  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

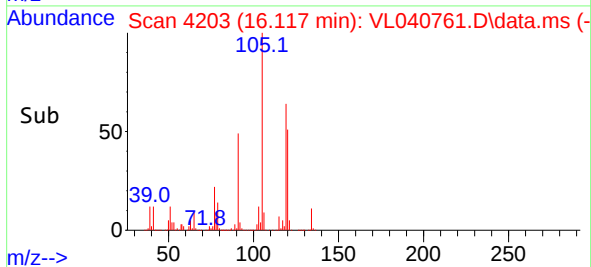
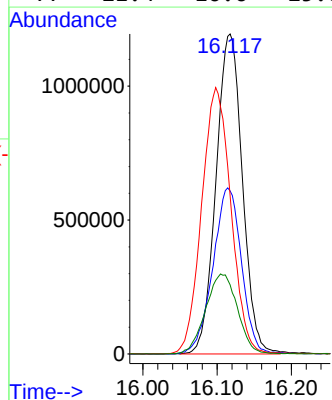
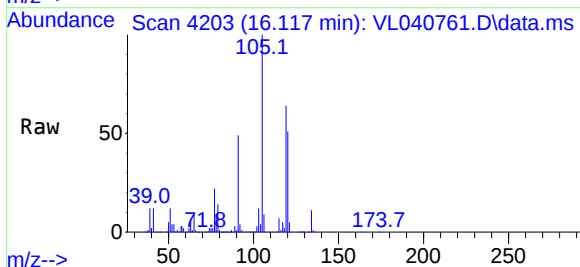
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MSVOA\_1  
ClientSampleId :  
ICVVL101123

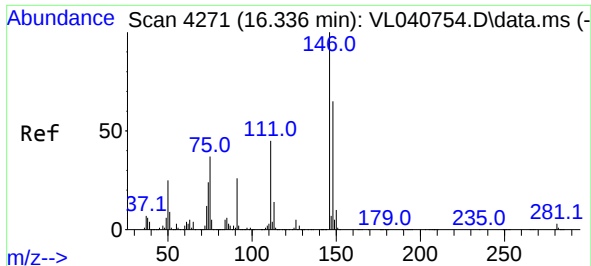
Tgt Ion:105 Resp: 2774146  
Ion Ratio Lower Upper  
105 100  
120 49.9 39.4 59.2



#74  
1,2,4-Trimethylbenzene  
Concen: 7.579 ppbv  
RT: 16.117 min Scan# 4203  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:105 Resp: 2952224  
Ion Ratio Lower Upper  
105 100  
120 50.8 39.4 59.2  
91 49.2 38.6 58.0  
77 21.4 16.6 25.0

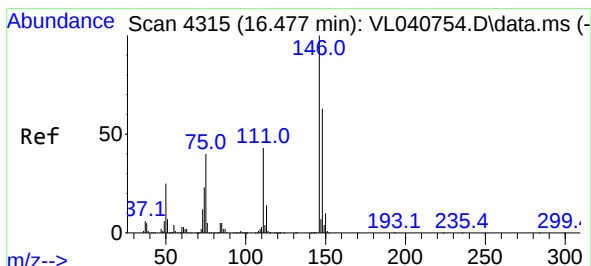
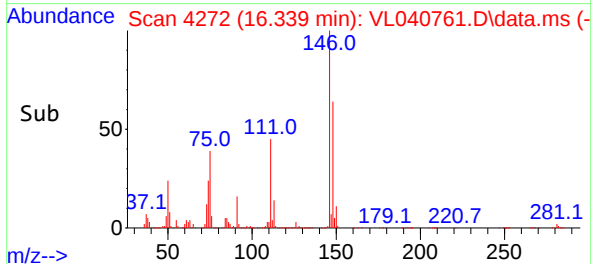
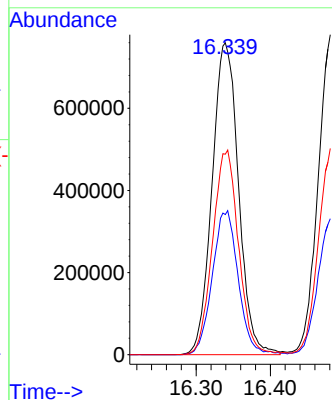
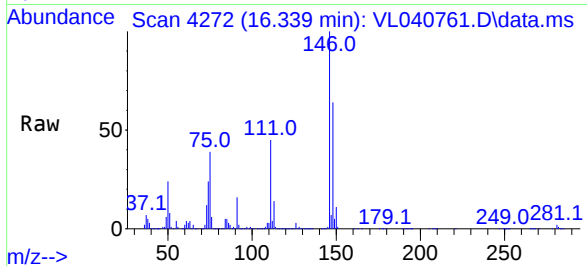




#75  
1,3-Dichlorobenzene  
Concen: 7.758 ppbv  
RT: 16.339 min Scan# 4317  
Delta R.T. 0.003 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

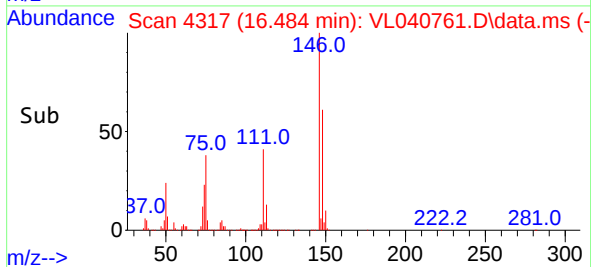
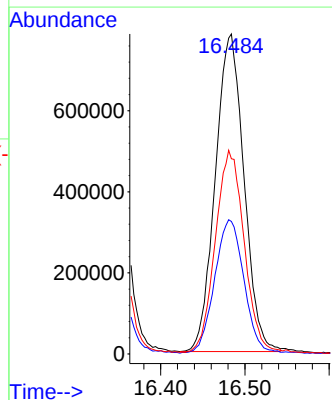
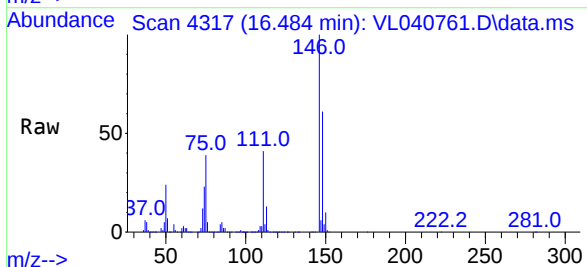
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MSVOA\_1  
ClientSampleId :  
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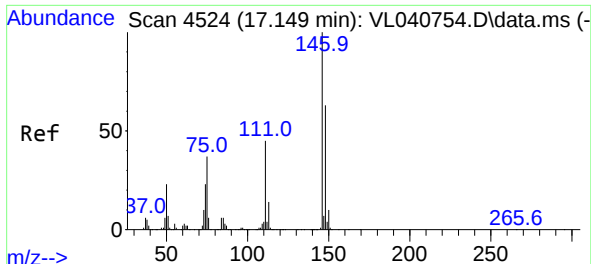
Tgt Ion:146 Resp: 1879432  
Ion Ratio Lower Upper  
146 100  
111 45.3 22.6 67.7  
148 64.6 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 7.717 ppbv  
RT: 16.484 min Scan# 4317  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:146 Resp: 1851420  
Ion Ratio Lower Upper  
146 100  
111 44.0 22.0 66.0  
148 65.7 33.4 100.1

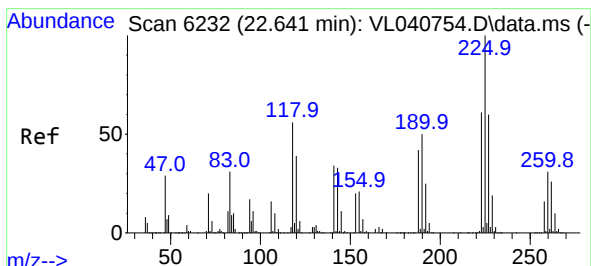
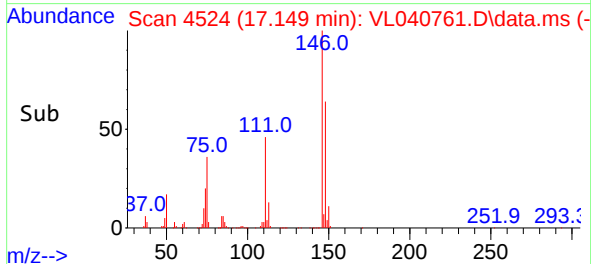
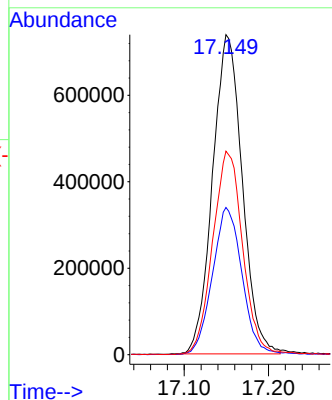
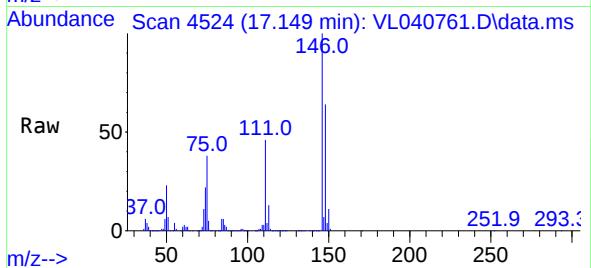




#77  
1,2-Dichlorobenzene  
Concen: 7.587 ppbv  
RT: 17.149 min Scan# 4524  
Delta R.T. 0.000 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

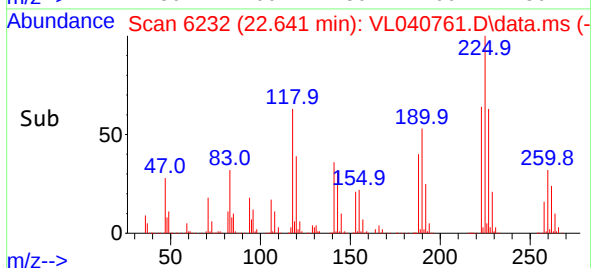
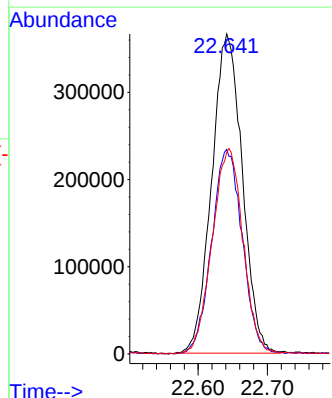
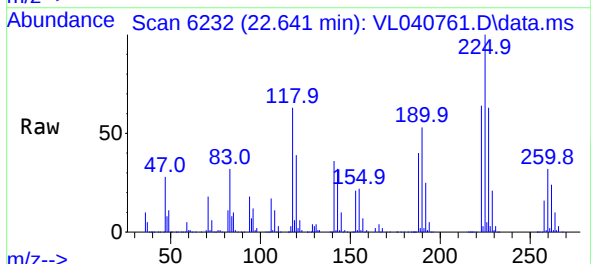
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101123

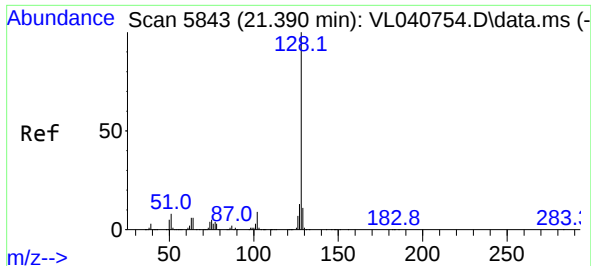
Tgt Ion:146 Resp: 1803349  
Ion Ratio Lower Upper  
146 100  
111 46.3 22.9 68.8  
148 64.7 32.3 96.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 6.591 ppbv  
RT: 22.641 min Scan# 6232  
Delta R.T. 0.000 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:225 Resp: 1120908  
Ion Ratio Lower Upper  
225 100  
223 64.6 50.7 76.1  
227 64.9 51.4 77.0

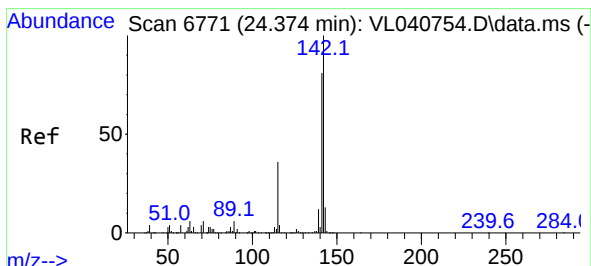
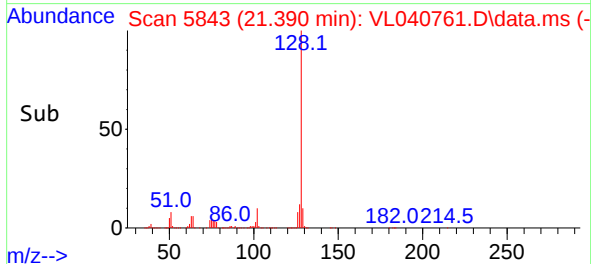
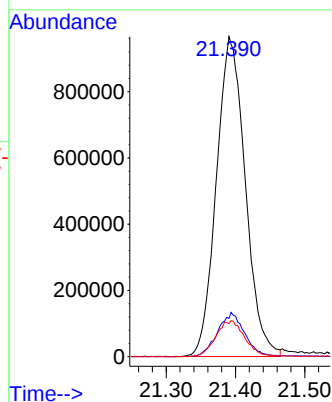
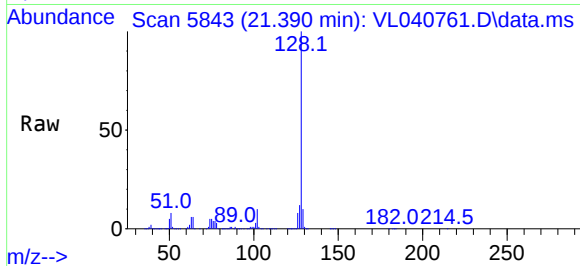




#79  
Naphthalene  
Concen: 8.824 ppbv  
RT: 21.390 min Scan# 5843  
Delta R.T. 0.000 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

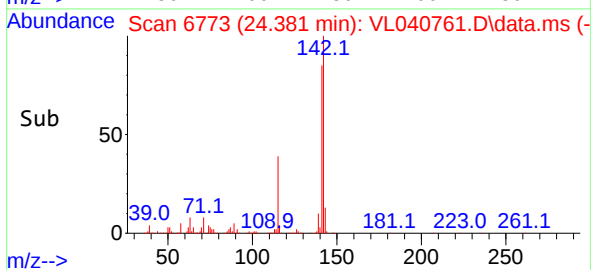
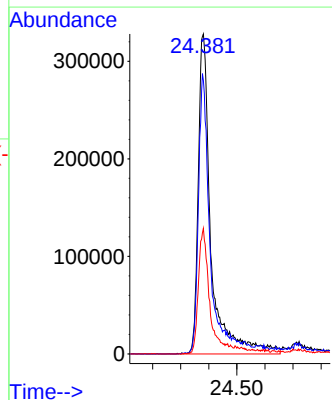
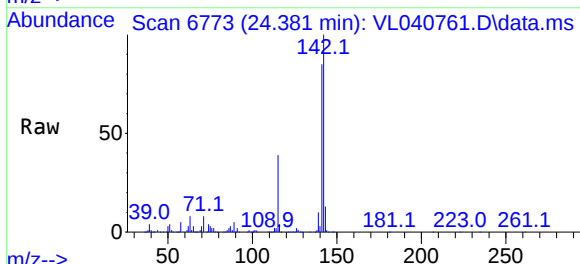
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101123

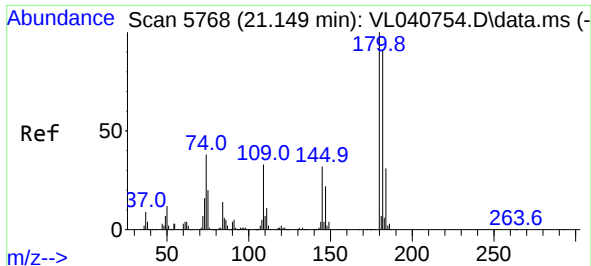
Tgt Ion:128 Resp: 2793826  
Ion Ratio Lower Upper  
128 100  
127 11.9 10.6 15.8  
129 10.3 9.0 13.4



#80  
Naphthalene,2-methyl-  
Concen: 11.752 ppbv  
RT: 24.381 min Scan# 6773  
Delta R.T. 0.006 min  
Lab File: VL040761.D  
Acq: 11 Oct 2023 16:45

Tgt Ion:142 Resp: 1044179  
Ion Ratio Lower Upper  
142 100  
141 80.2 66.3 99.5  
115 36.7 30.0 45.0





#81

1,2,4-Trichlorobenzene

Concen: 8.080 ppbv

RT: 21.149 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL040761.D

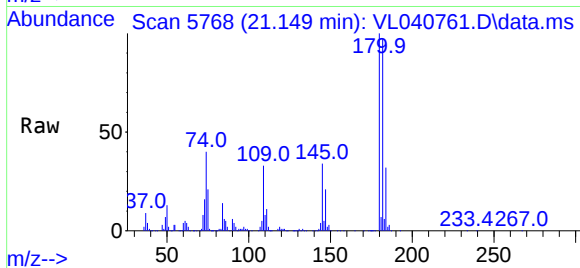
Acq: 11 Oct 2023 16:45

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101123



Tgt Ion:180 Resp: 1388866

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 97.2  | 77.9  | 116.9 |
| 184 | 31.0  | 25.0  | 37.6  |

