

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040424\  
 Data File : VL041129.D  
 Acq On : 4 Apr 2024 17:28  
 Operator : SY/MD  
 Sample : VL0404ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

Quant Time: Apr 05 03:43:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 05 03:20:09 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.214  | 49    | 1389122  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.681  | 114   | 3549601  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.497 | 117   | 3460381  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.809 | 95    | 2837866  | 10.157   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.600% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.735  | 85    | 2280305  | 9.568    | ppbv   | 97       |
| 3) Chlorodifluoromethane      | 2.677  | 51    | 1990925  | 9.305    | ppbv   | 99       |
| 4) Chloromethane              | 2.819  | 50    | 759097   | 9.375    | ppbv   | 98       |
| 5) Vinyl Chloride             | 2.928  | 62    | 776761   | 10.039   | ppbv   | 98       |
| 6) Bromomethane               | 3.124  | 94    | 250701   | 8.516    | ppbv   | 94       |
| 7) Chloroethane               | 3.205  | 64    | 270309   | 9.591    | ppbv   | 95       |
| 8) Dichlorotetrafluoroethane  | 2.864  | 85    | 1934480  | 9.544    | ppbv   | 97       |
| 9) Propene                    | 2.697  | 41    | 676733   | 9.943    | ppbv   | 99       |
| 10) Heptane                   | 7.607  | 43    | 1678165  | 10.385   | ppbv   | 98       |
| 11) Trichlorofluoromethane    | 3.575  | 101   | 1991434  | 9.242    | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 4.079  | 101   | 1439150  | 9.228    | ppbv   | 97       |
| 13) Ethanol                   | 3.250  | 45    | 108290   | 6.831    | ppbv   | 81       |
| 14) Bromoethene               | 3.375  | 108   | 609701   | 9.926    | ppbv   | 97       |
| 15) Acetone                   | 3.478  | 43    | 1472945  | 9.793    | ppbv   | 100      |
| 16) 1,3-Butadiene             | 2.989  | 39    | 731085   | 9.902    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 3.893  | 59    | 1381887  | 10.122   | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 3.893  | 96    | 652712   | 9.803    | ppbv   | 97       |
| 19) Isopropyl Alcohol         | 3.584  | 45    | 915848   | 9.911    | ppbv   | 99       |
| 20) Methylene Chloride        | 3.947  | 84    | 544651   | 8.780    | ppbv   | 94       |
| 21) Allyl Chloride            | 4.012  | 41    | 866614   | 9.456    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 4.462  | 96    | 678716   | 9.777    | ppbv   | 99       |
| 23) Vinyl Acetate             | 4.645  | 43    | 1541344  | 9.877    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 4.581  | 63    | 1345921  | 9.627    | ppbv   | 99       |
| 25) Ethyl Acetate             | 5.224  | 43    | 2762385  | 9.779    | ppbv   | 100      |
| 26) Hexane                    | 5.234  | 57    | 1187589  | 9.370    | ppbv   | 97       |
| 27) Carbon Disulfide          | 4.140  | 76    | 1643278  | 10.678   | ppbv   | 99       |
| 28) Methyl tert-Butyl Ether   | 4.603  | 73    | 909854   | 9.512    | ppbv   | 98       |
| 29) Chloroform                | 5.298  | 83    | 2066504  | 9.672    | ppbv   | 96       |
| 30) Cyclohexane               | 6.629  | 84    | 1015890  | 9.965    | ppbv   | 97       |
| 31) cis-1,2-Dichloroethene    | 5.099  | 61    | 1199230  | 9.996    | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 6.028  | 97    | 2049605  | 10.377   | ppbv   | 99       |
| 34) 2-Butanone                | 4.803  | 43    | 1461000  | 9.529    | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 6.520  | 117   | 2132440  | 10.529   | ppbv   | 98       |
| 36) Benzene                   | 6.398  | 78    | 2589236  | 9.944    | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 5.828  | 62    | 1581744  | 10.106   | ppbv   | 100      |
| 38) Trichloroethene           | 7.320  | 130   | 1021929  | 10.814   | ppbv   | 95       |
| 39) 1,2-Dichloropropane       | 7.098  | 63    | 1005961  | 9.733    | ppbv   | 96       |
| 40) 1,4-Dioxane               | 7.311  | 88    | 159960   | 4.515    | ppbv # | 1        |
| 41) Tetrahydrofuran           | 5.578  | 42    | 1039671  | 10.602   | ppbv   | 99       |
| 42) Bromodichloromethane      | 7.275  | 83    | 2305059  | 10.309   | ppbv   | 97       |
| 43) Methyl Methacrylate       | 7.500  | 69    | 1081398  | 11.956   | ppbv   | 97       |
| 44) 2,2,4-Trimethylpentane    | 7.356  | 57    | 4339012  | 10.055   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 8.742  | 75    | 586035   | 10.053   | ppbv   | 96       |

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 Acq On : 4 Apr 2024 17:28  
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 Sample : VL0404ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

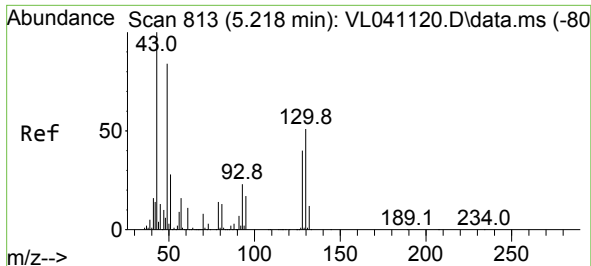
Quant Time: Apr 05 03:43:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 05 03:20:09 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.172  | 75   | 761994   | 10.268 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 8.928  | 97   | 1117012  | 10.055 | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.745  | 129  | 1940510  | 11.005 | ppbv   | 100      |
| 49) Bromoform                 | 12.442 | 173  | 1572289  | 11.248 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.211  | 43   | 2809897  | 10.681 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.581  | 43   | 2024773  | 11.101 | ppbv   | 100      |
| 52) Tetrachloroethene         | 10.648 | 164  | 886962   | 10.625 | ppbv   | 99       |
| 53) Toluene                   | 9.253  | 91   | 3008080  | 10.921 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.041 | 107  | 1467635  | 10.601 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.542 | 131  | 1421979  | 9.945  | ppbv   | 97       |
| 57) Chlorobenzene             | 11.561 | 112  | 2330208  | 9.848  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.121 | 91   | 4081276  | 10.710 | ppbv   | 99       |
| 59) m/p-Xylene                | 12.407 | 91   | 3824661  | 11.124 | ppbv # | 43       |
| 60) o-Xylene                  | 13.092 | 91   | 3394410  | 10.366 | ppbv   | 99       |
| 61) Styrene                   | 12.931 | 104  | 1681761  | 11.588 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.063 | 105  | 4936423  | 10.158 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.082 | 83   | 2618183  | 10.166 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.950 | 120  | 1305387  | 10.725 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.124 | 119  | 4432990  | 10.440 | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.359 | 91   | 117643   | 4.200  | ppbv # | 67       |
| 67) sec-Butylbenzene          | 16.670 | 105  | 6358133  | 10.387 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.027 | 119  | 5147162  | 10.780 | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.918 | 91   | 5688495  | 10.939 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.835 | 91   | 3885784  | 10.438 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.227 | 105  | 4001744  | 11.074 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.384 | 105  | 3471686  | 10.801 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.143 | 105  | 3851163  | 10.400 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.365 | 146  | 2253301  | 10.490 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.506 | 146  | 2189410  | 10.464 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.175 | 146  | 2200226  | 10.537 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.667 | 225  | 699162   | 5.046  | ppbv # | 18       |
| 79) Naphthalene               | 21.423 | 128  | 3349641  | 14.384 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 24.406 | 142  | 657877   | 16.068 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.175 | 180  | 1614698  | 12.035 | ppbv   | 99       |

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL040424AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 05 03:20:09 2024  
Response via : Initial Calibration

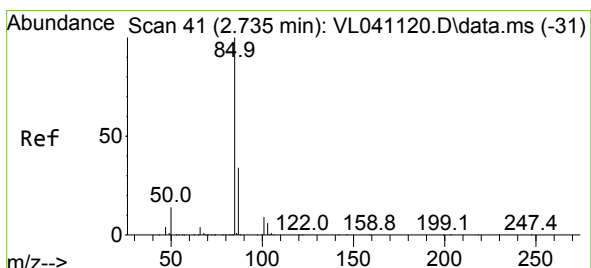
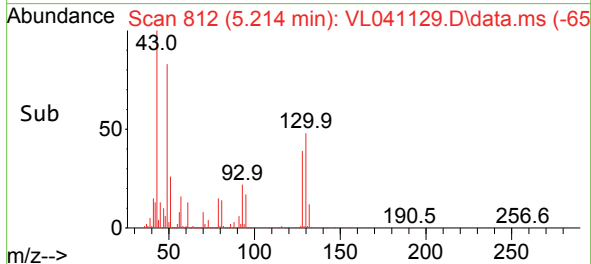
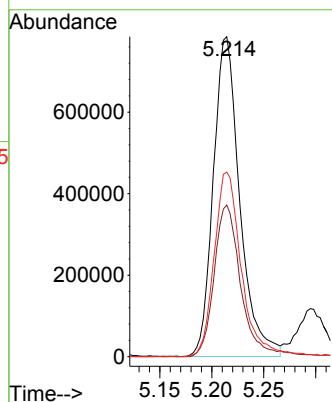
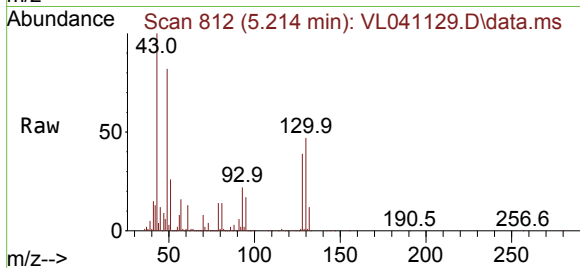




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.214 min Scan# 81  
Delta R.T. -0.004 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

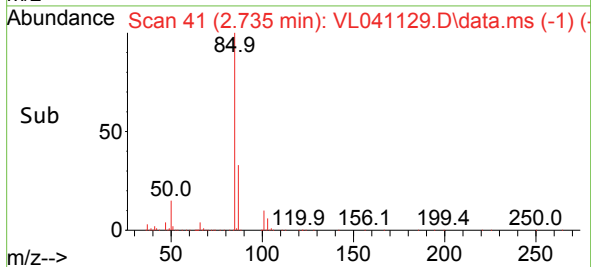
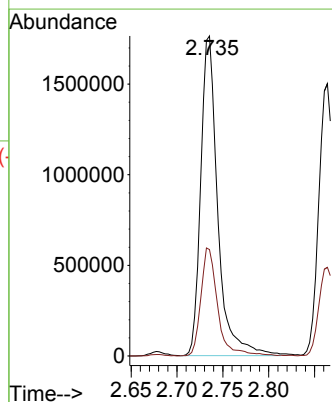
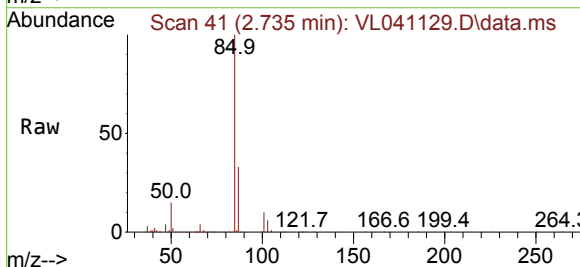
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

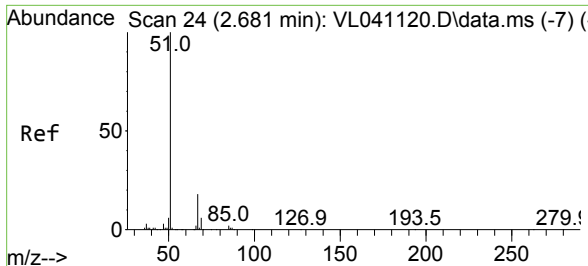
Tgt Ion: 49 Resp: 1389122  
Ion Ratio Lower Upper  
49 100  
128 48.6 23.8 71.5  
130 60.1 30.3 90.9



#2  
Dichlorodifluoromethane  
Concen: 9.568 ppbv  
RT: 2.735 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 85 Resp: 2280305  
Ion Ratio Lower Upper  
85 100  
87 33.2 28.1 42.1

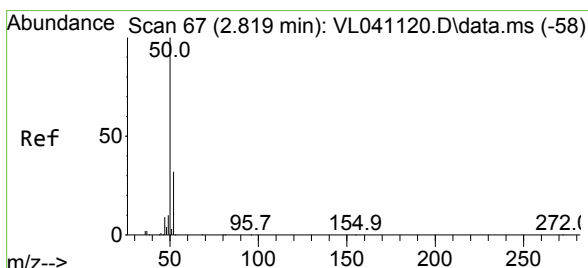
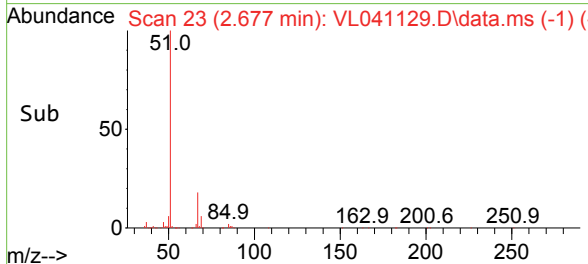
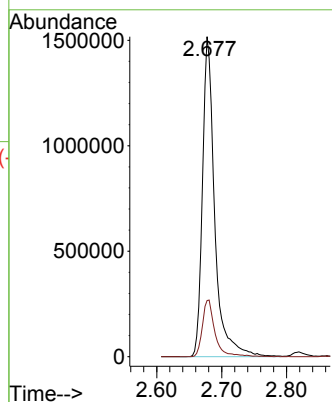
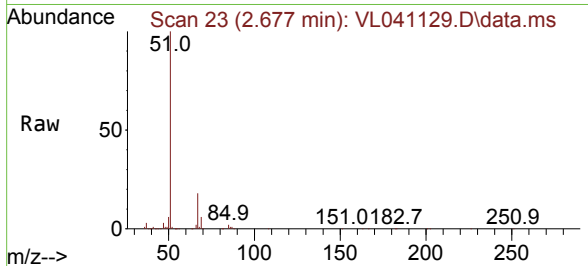




#3  
Chlorodifluoromethane  
Concen: 9.305 ppbv  
RT: 2.677 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

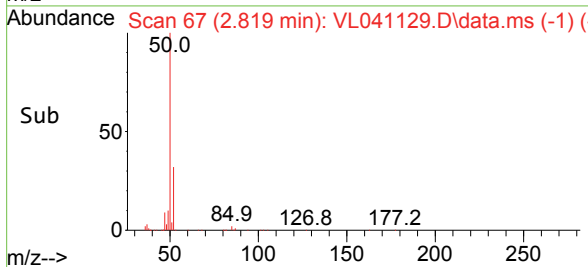
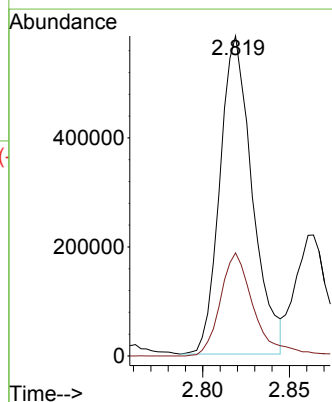
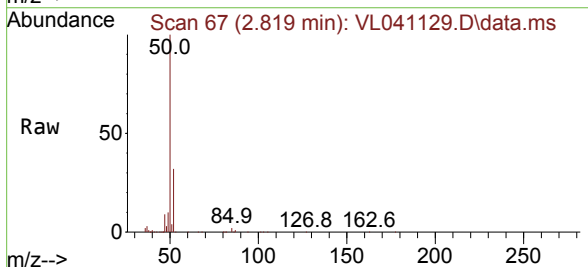
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

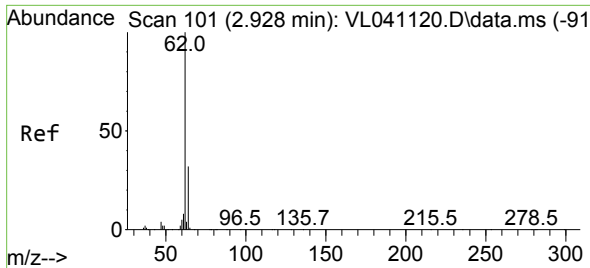
Tgt Ion: 51 Resp: 1990925  
Ion Ratio Lower Upper  
51 100  
67 18.4 14.5 21.7



#4  
Chloromethane  
Concen: 9.375 ppbv  
RT: 2.819 min Scan# 67  
Delta R.T. -0.000 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 50 Resp: 759097  
Ion Ratio Lower Upper  
50 100  
52 32.4 26.6 40.0

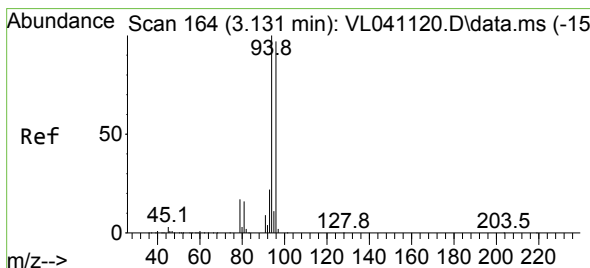
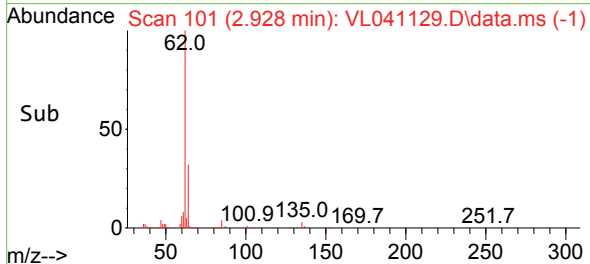
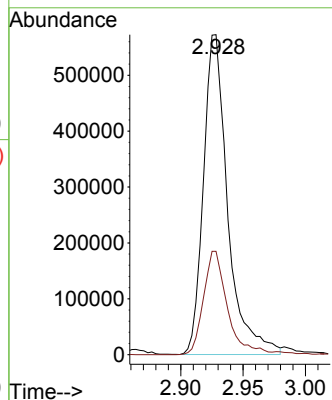
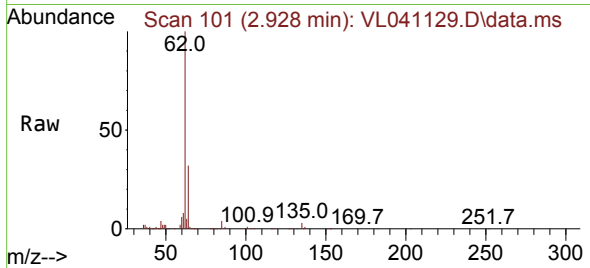




#5  
 Vinyl Chloride  
 Concen: 10.039 ppbv  
 RT: 2.928 min Scan# 101  
 Delta R.T. -0.000 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

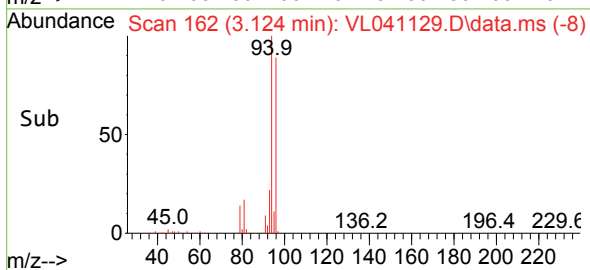
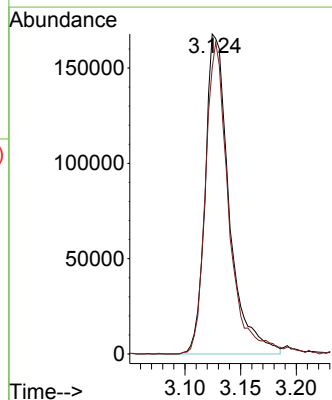
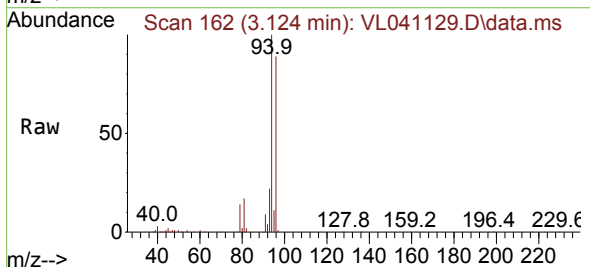
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

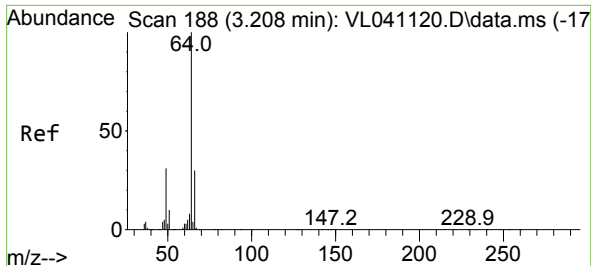
Tgt Ion: 62 Resp: 776761  
 Ion Ratio Lower Upper  
 62 100  
 64 32.2 26.5 39.7



#6  
 Bromomethane  
 Concen: 8.516 ppbv  
 RT: 3.124 min Scan# 162  
 Delta R.T. -0.006 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Tgt Ion: 94 Resp: 250701  
 Ion Ratio Lower Upper  
 94 100  
 96 89.3 76.0 114.0

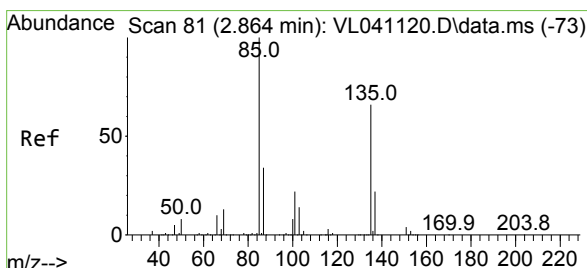
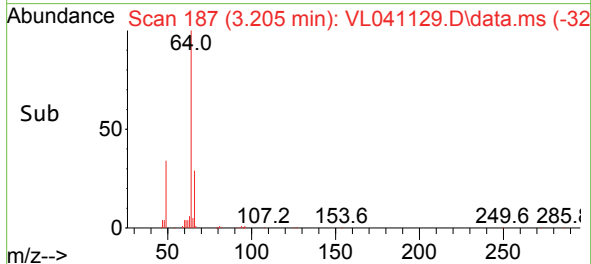
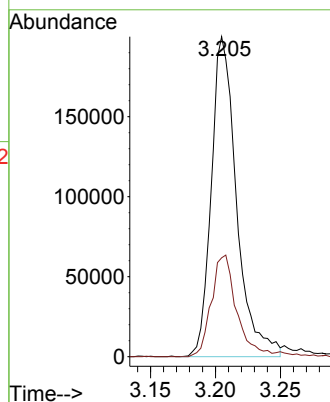
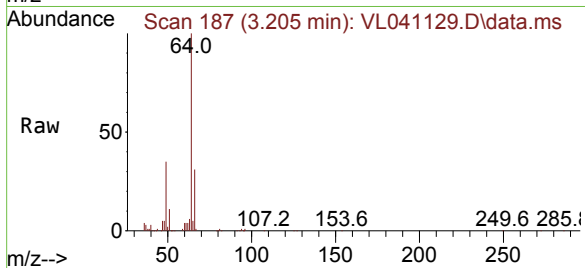




#7  
Chloroethane  
Concen: 9.591 ppbv  
RT: 3.205 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

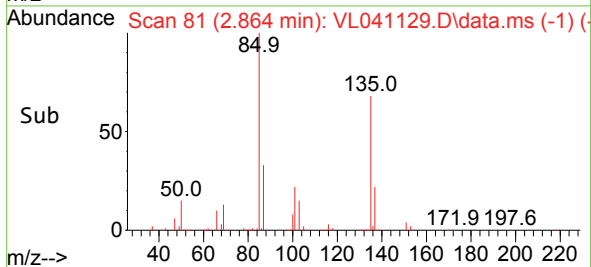
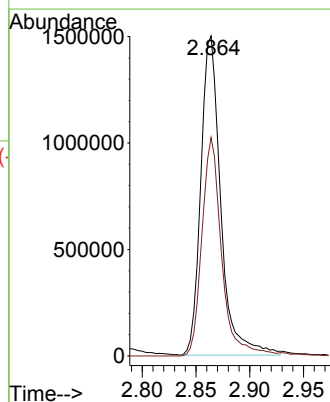
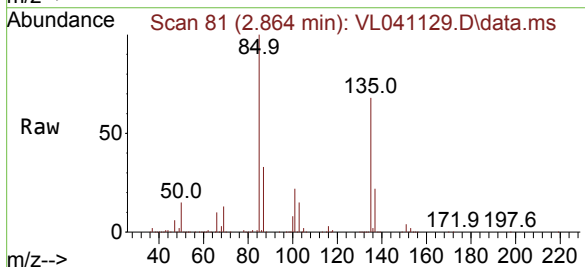
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

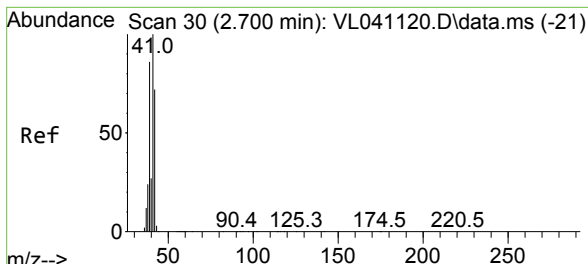
Tgt Ion: 64 Resp: 270309  
Ion Ratio Lower Upper  
64 100  
66 31.5 23.2 34.8



#8  
Dichlorotetrafluoroethane  
Concen: 9.544 ppbv  
RT: 2.864 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 85 Resp: 1934480  
Ion Ratio Lower Upper  
85 100  
135 68.7 56.7 85.1

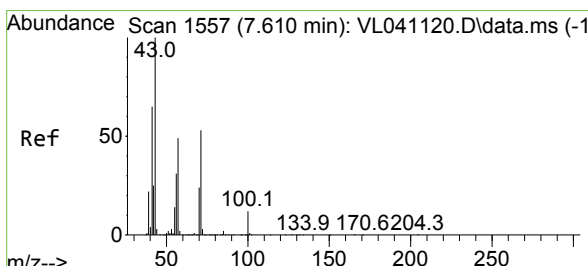
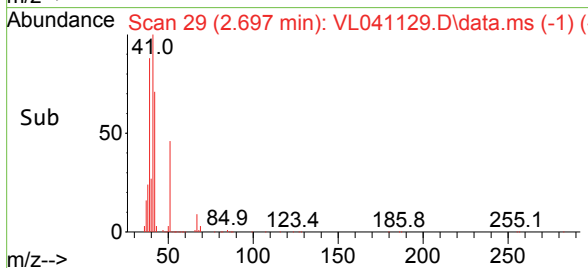
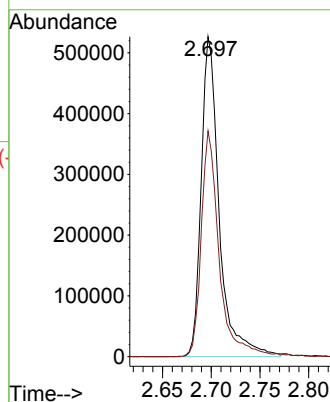
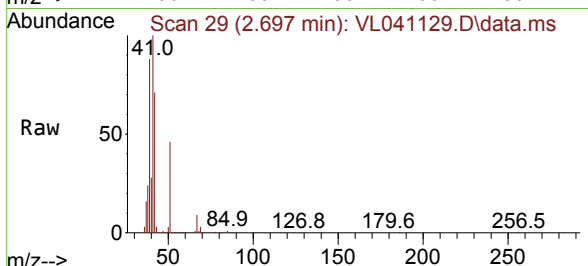




#9  
 Propene  
 Concen: 9.943 ppbv  
 RT: 2.697 min Scan# 29  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

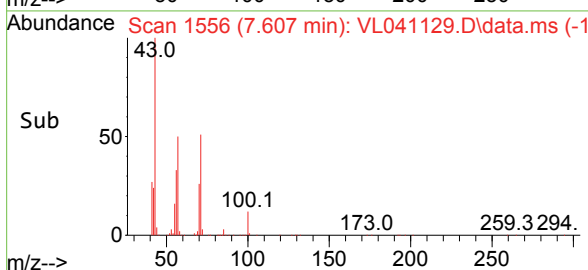
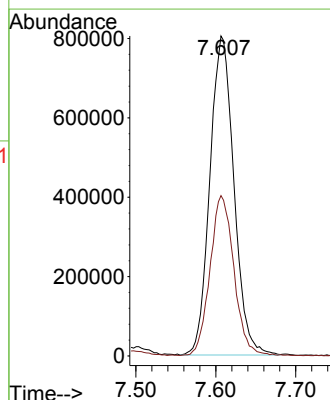
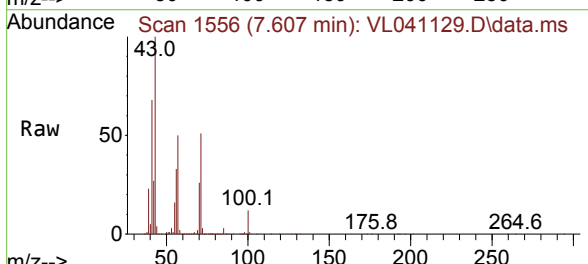
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

Tgt Ion: 41 Resp: 676733  
 Ion Ratio Lower Upper  
 41 100  
 42 70.8 55.9 83.9

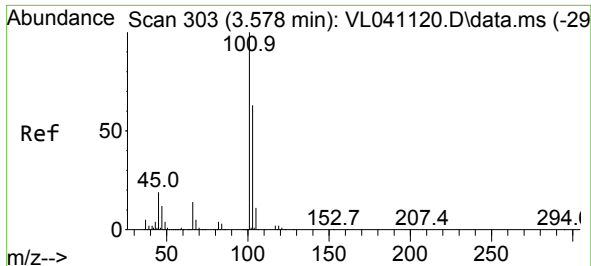


#10  
 Heptane  
 Concen: 10.385 ppbv  
 RT: 7.607 min Scan# 1556  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Tgt Ion: 43 Resp: 1678165  
 Ion Ratio Lower Upper  
 43 100  
 57 50.2 41.0 61.6



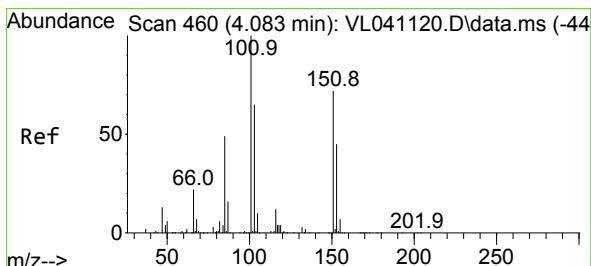
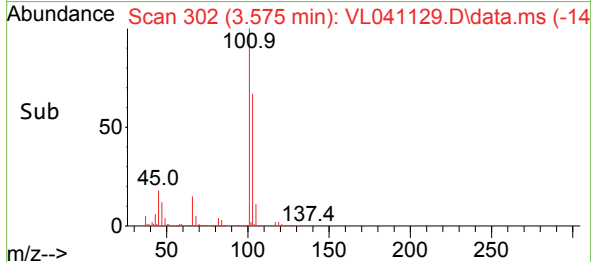
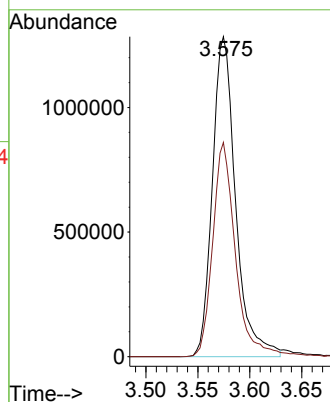
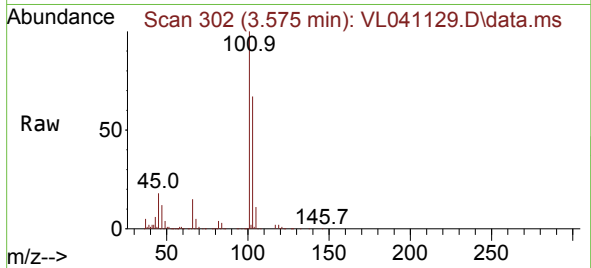




#11  
Trichlorofluoromethane  
Concen: 9.242 ppbv  
RT: 3.575 min Scan# 303  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

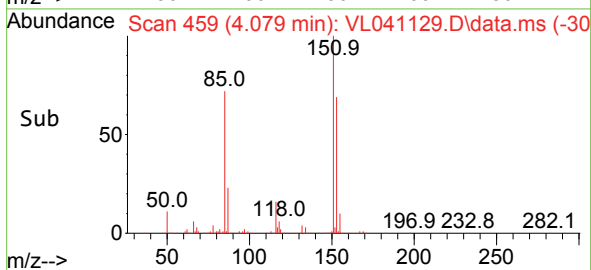
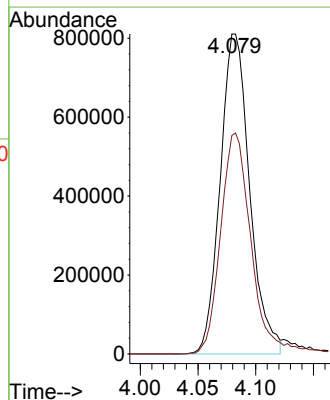
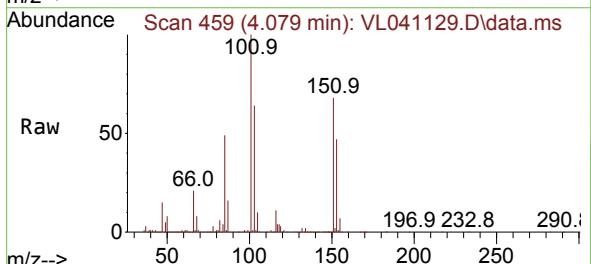
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

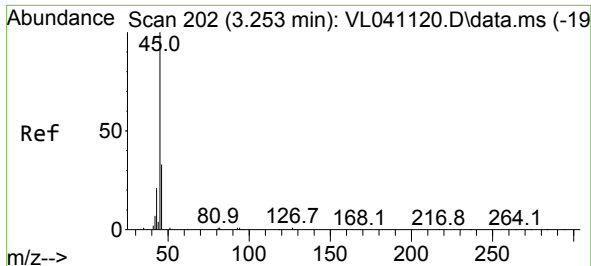
Tgt Ion:101 Resp: 1991434  
Ion Ratio Lower Upper  
101 100  
103 67.0 53.0 79.4



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.228 ppbv  
RT: 4.079 min Scan# 459  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:101 Resp: 1439150  
Ion Ratio Lower Upper  
101 100  
151 72.2 55.8 83.8

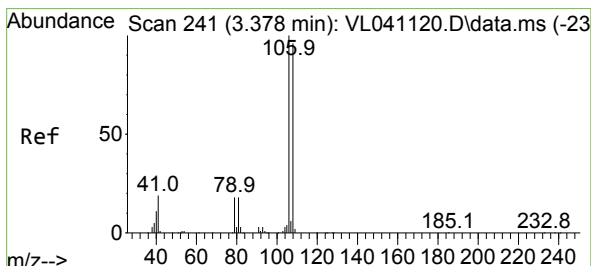
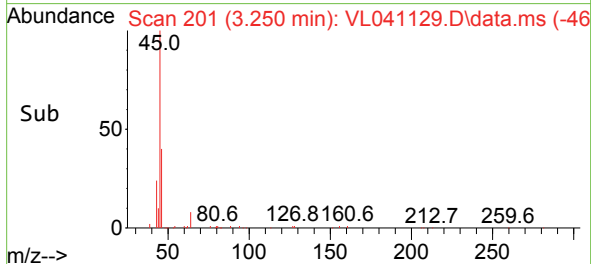
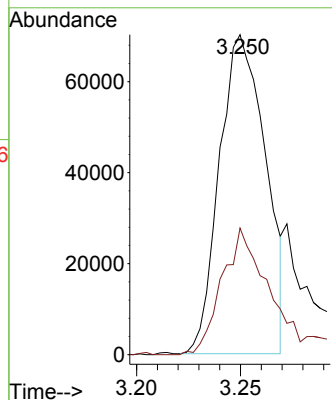
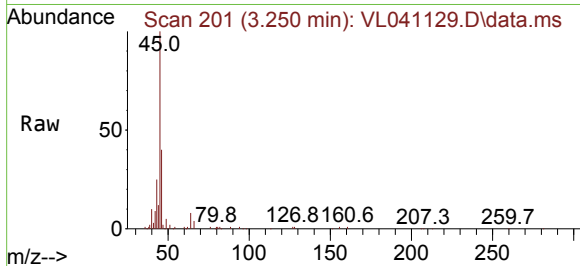




#13  
Ethanol  
Concen: 6.831 ppbv  
RT: 3.250 min Scan# 20  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

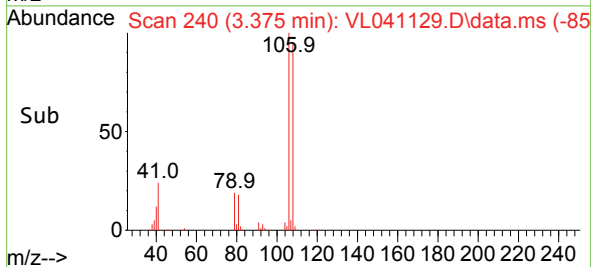
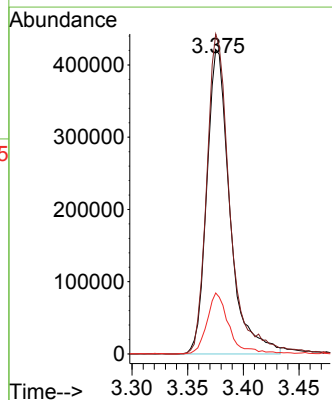
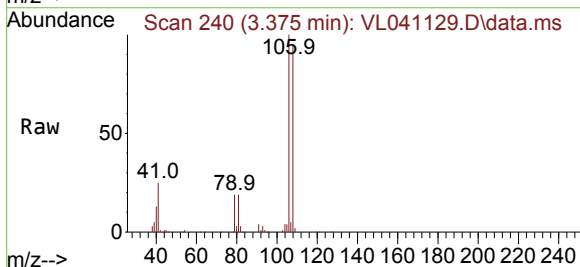
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

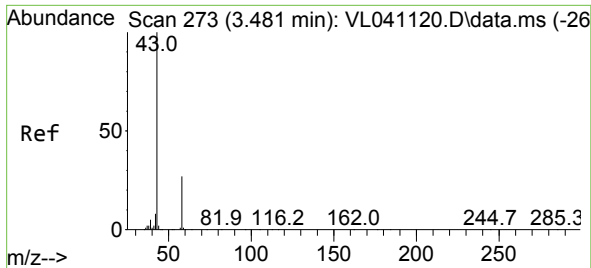
Tgt Ion: 45 Resp: 108290  
Ion Ratio Lower Upper  
45 100  
46 47.6 14.6 58.2



#14  
Bromoethene  
Concen: 9.926 ppbv  
RT: 3.375 min Scan# 240  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:108 Resp: 609701  
Ion Ratio Lower Upper  
108 100  
106 106.7 88.1 132.1  
79 19.6 15.6 23.4

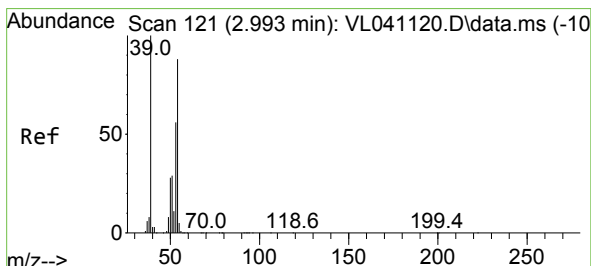
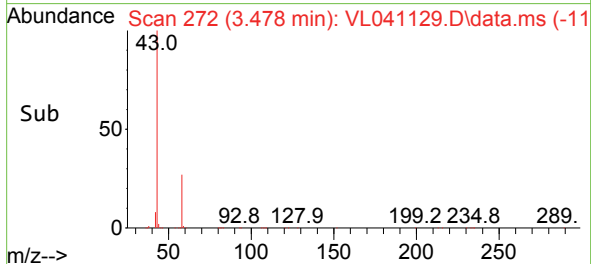
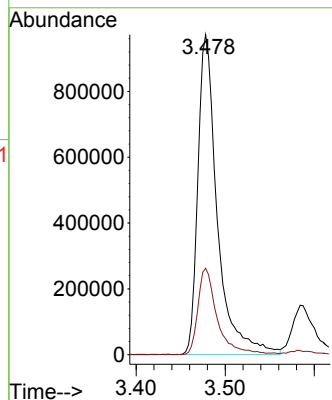
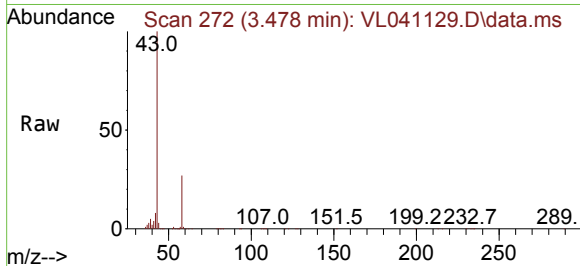




#15  
Acetone  
Concen: 9.793 ppbv  
RT: 3.478 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

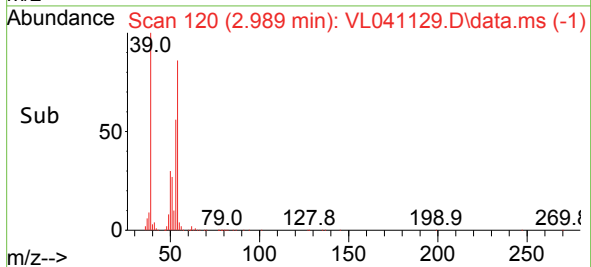
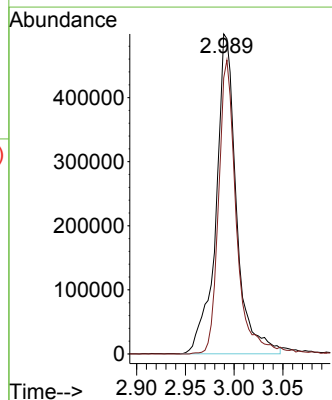
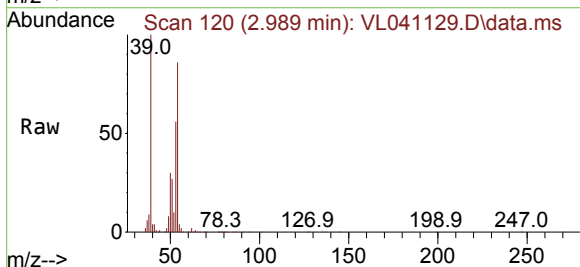
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

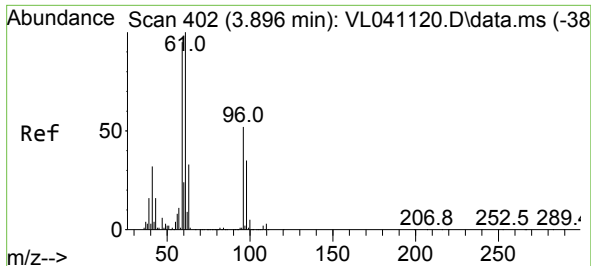
Tgt Ion: 43 Resp: 1472945  
Ion Ratio Lower Upper  
43 100  
58 27.0 21.7 32.5



#16  
1,3-Butadiene  
Concen: 9.902 ppbv  
RT: 2.989 min Scan# 120  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 39 Resp: 731085  
Ion Ratio Lower Upper  
39 100  
54 80.4 64.0 96.0





#17

tert-Butyl alcohol

Concen: 10.122 ppbv

RT: 3.893 min Scan# 401

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

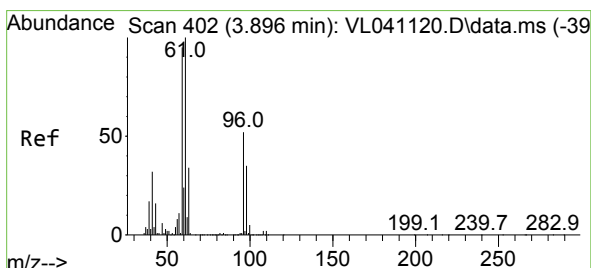
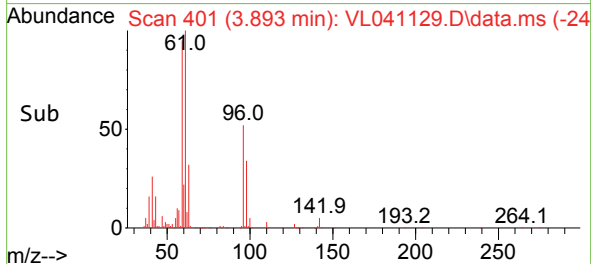
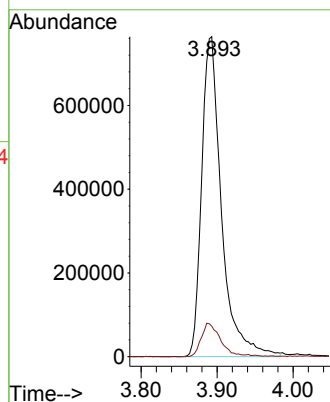
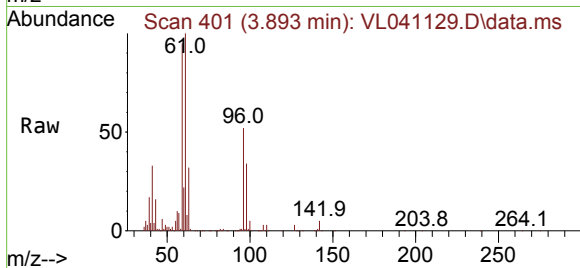
VL0404ABS01

Tgt Ion: 59 Resp: 1381887

Ion Ratio Lower Upper

59 100

57 10.6 9.0 13.6



#18

1,1-Dichloroethene

Concen: 9.803 ppbv

RT: 3.893 min Scan# 401

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

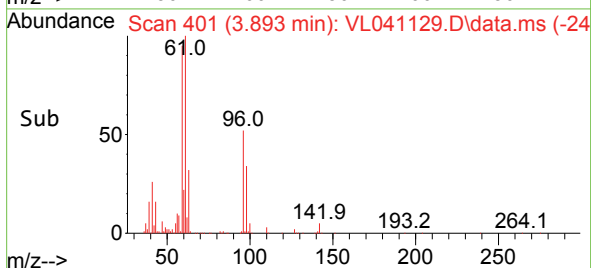
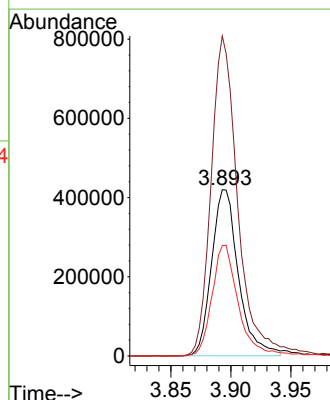
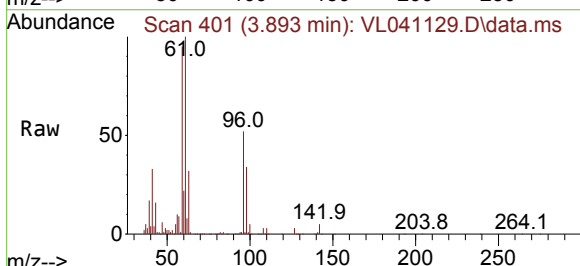
Tgt Ion: 96 Resp: 652712

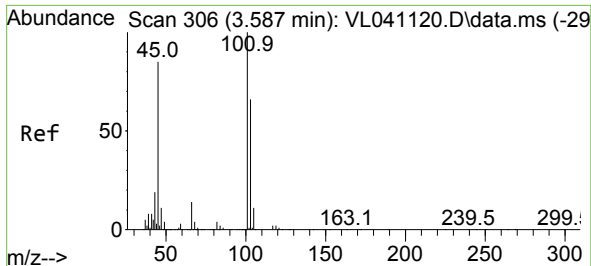
Ion Ratio Lower Upper

96 100

61 192.6 150.2 225.2

98 66.4 50.7 76.1

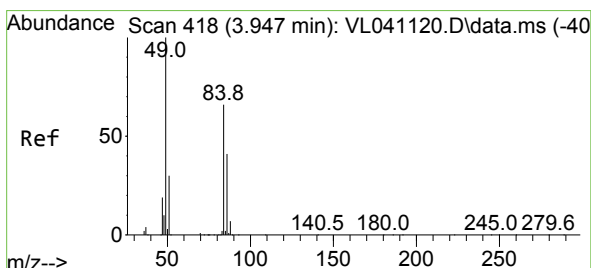
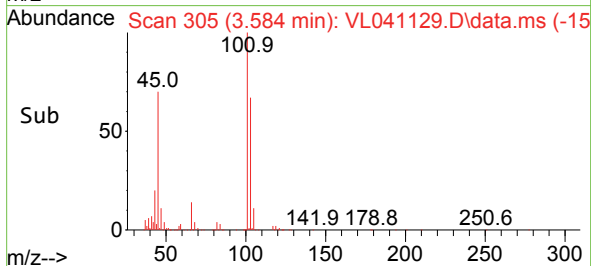
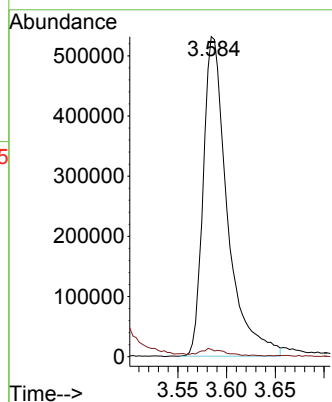
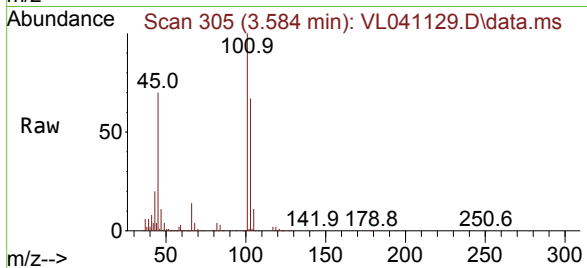




#19  
Isopropyl Alcohol  
Concen: 9.911 ppbv  
RT: 3.584 min Scan# 306  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

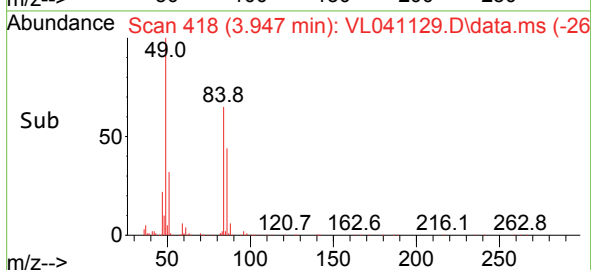
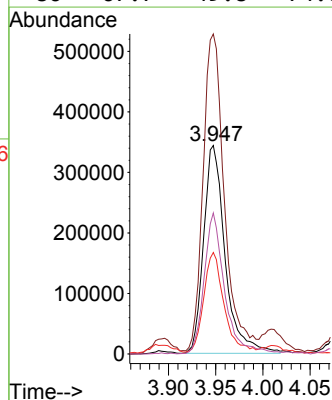
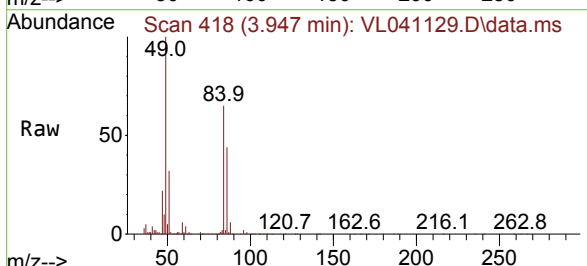
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

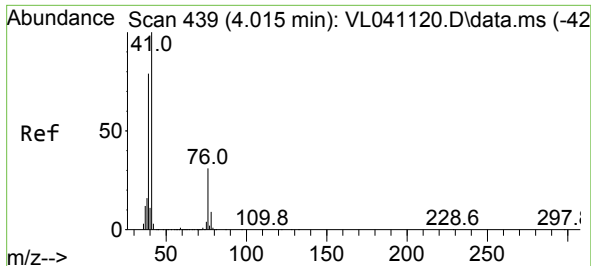
Tgt Ion: 45 Resp: 915848  
Ion Ratio Lower Upper  
45 100  
58 2.4 2.2 3.4



#20  
Methylene Chloride  
Concen: 8.780 ppbv  
RT: 3.947 min Scan# 418  
Delta R.T. -0.000 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 84 Resp: 544651  
Ion Ratio Lower Upper  
84 100  
49 152.4 117.0 175.6  
51 47.2 34.9 52.3  
86 67.7 49.8 74.6

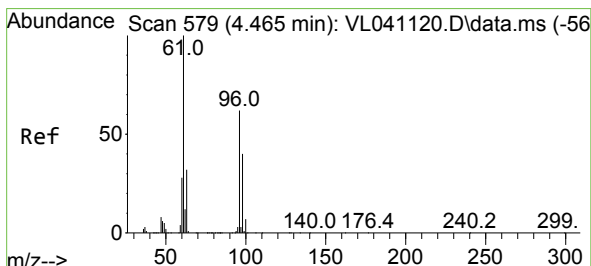
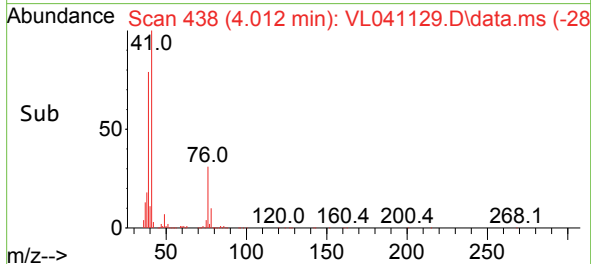
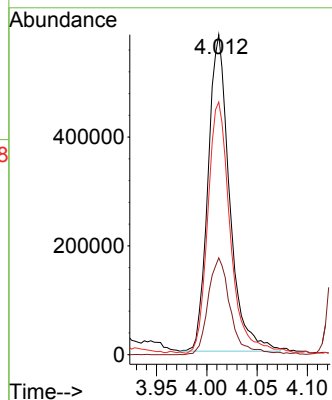
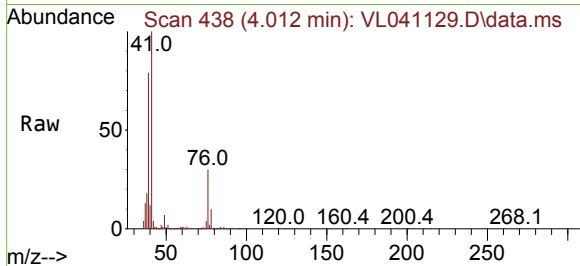




#21  
 Allyl Chloride  
 Concen: 9.456 ppbv  
 RT: 4.012 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

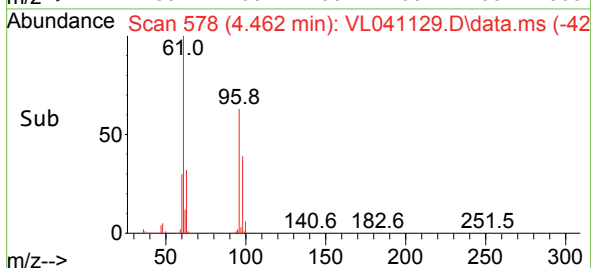
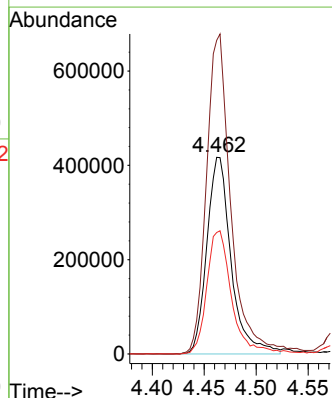
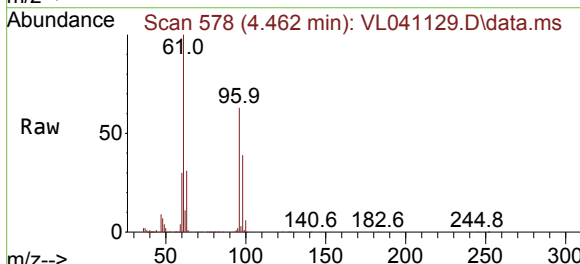
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

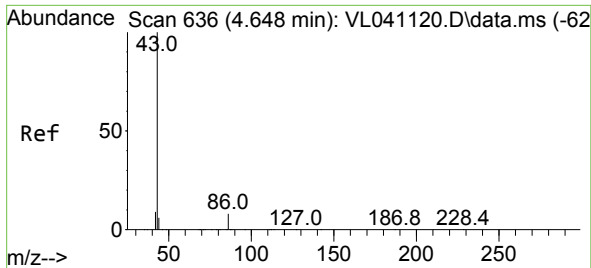
Tgt Ion: 41 Resp: 866614  
 Ion Ratio Lower Upper  
 41 100  
 76 32.1 25.5 38.3  
 39 83.5 67.4 101.2



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.777 ppbv  
 RT: 4.462 min Scan# 578  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Tgt Ion: 96 Resp: 678716  
 Ion Ratio Lower Upper  
 96 100  
 61 159.4 126.7 190.1  
 98 61.8 50.1 75.1

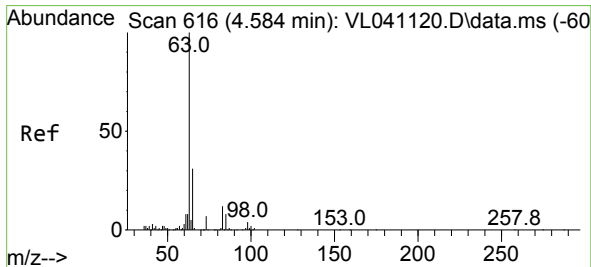
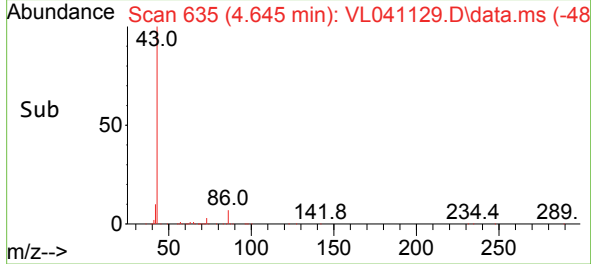
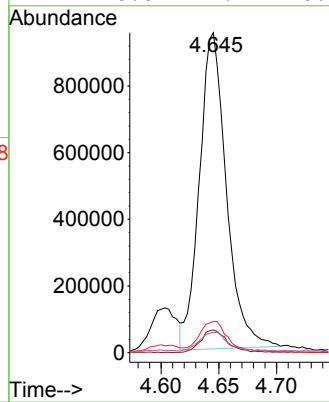
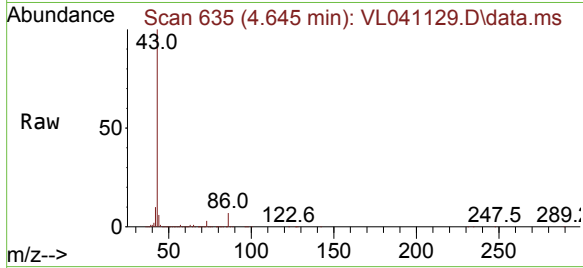




#23  
Vinyl Acetate  
Concen: 9.877 ppbv  
RT: 4.645 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

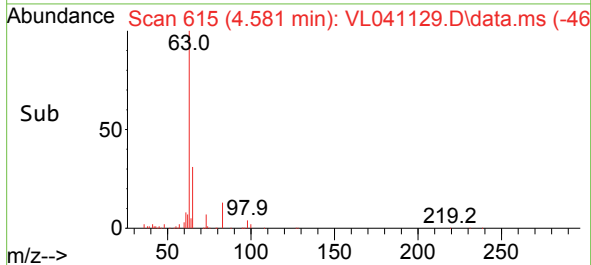
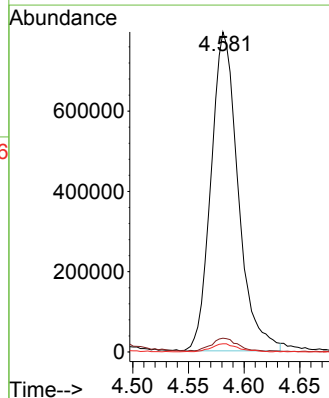
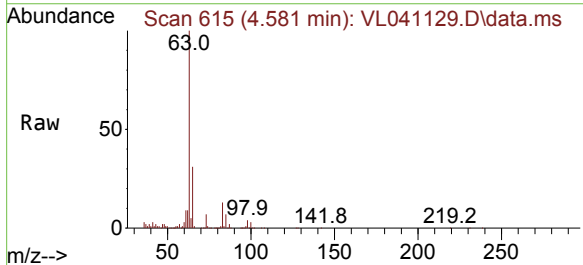
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

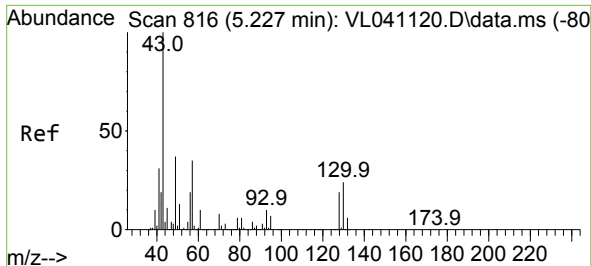
Tgt Ion: 43 Resp: 1541344  
Ion Ratio Lower Upper  
43 100  
86 7.2 5.4 8.2  
42 9.7 8.0 12.0  
44 6.0 4.2 6.2



#24  
1,1-Dichloroethane  
Concen: 9.627 ppbv  
RT: 4.581 min Scan# 615  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 63 Resp: 1345921  
Ion Ratio Lower Upper  
63 100  
98 4.1 2.1 6.5  
100 2.7 1.4 4.2





#25

Ethyl Acetate

Concen: 9.779 ppbv

RT: 5.224 min Scan# 815

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

Tgt Ion: 43 Resp: 2762385

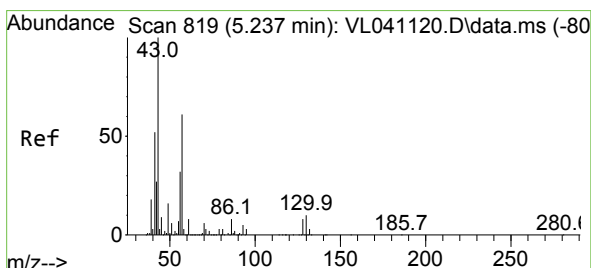
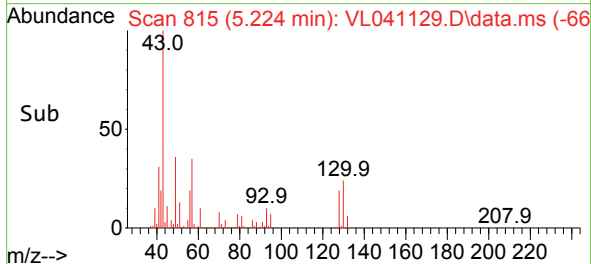
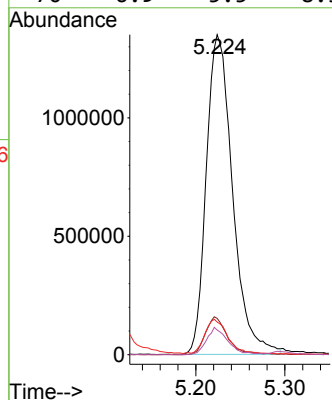
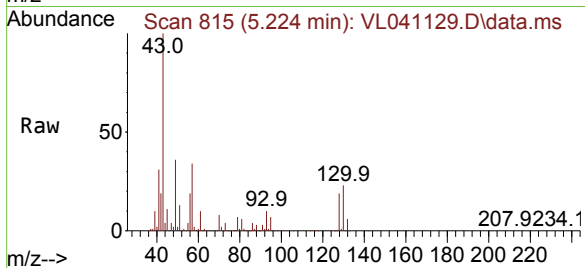
Ion Ratio Lower Upper

43 100

45 10.3 8.2 12.2

61 10.6 8.2 12.2

70 6.9 5.5 8.3



#26

Hexane

Concen: 9.370 ppbv

RT: 5.234 min Scan# 818

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Tgt Ion: 57 Resp: 1187589

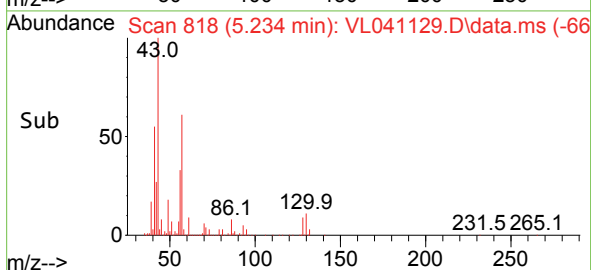
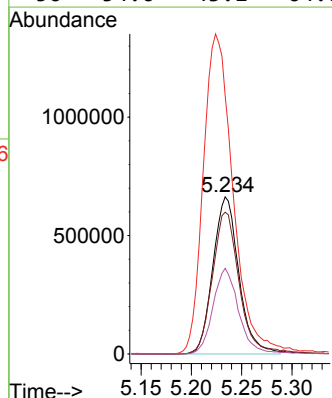
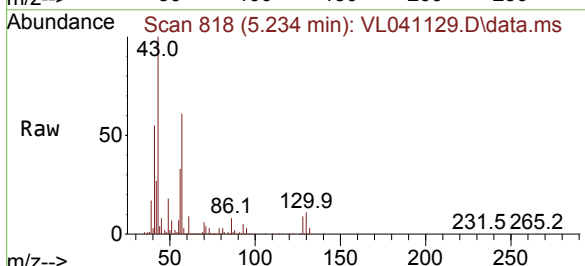
Ion Ratio Lower Upper

57 100

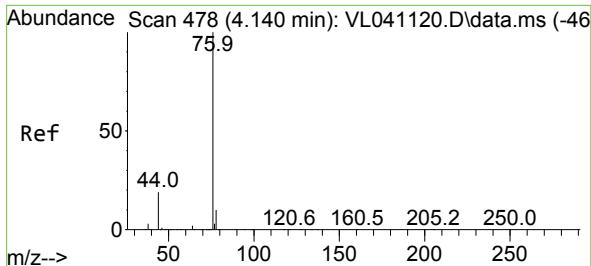
41 94.6 73.8 110.6

43 236.6 184.2 276.2

56 54.6 43.1 64.7



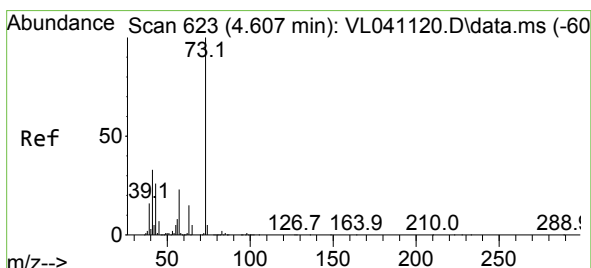
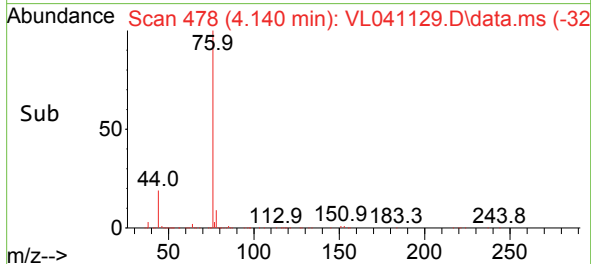
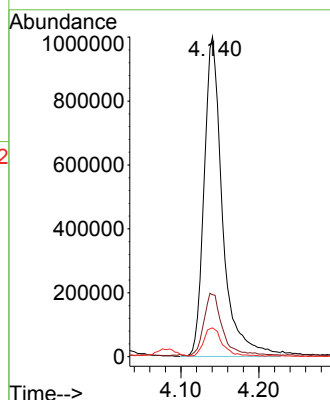
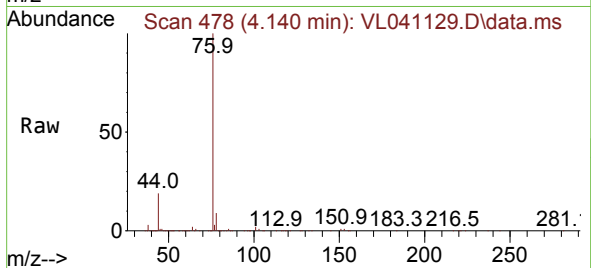




#27  
Carbon Disulfide  
Concen: 10.678 ppbv  
RT: 4.140 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

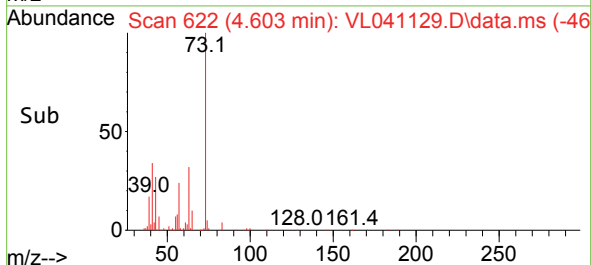
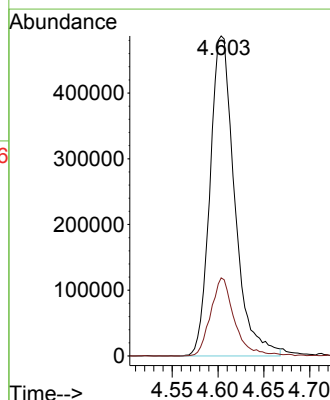
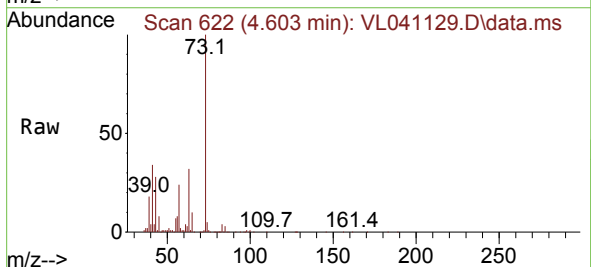
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

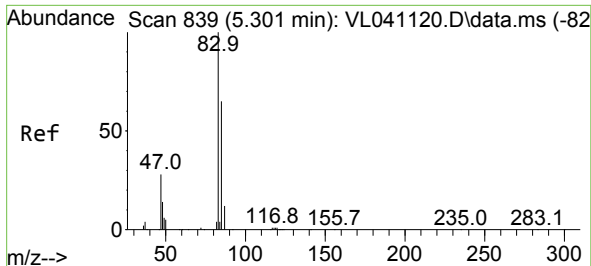
Tgt Ion: 76 Resp: 1643278  
Ion Ratio Lower Upper  
76 100  
44 19.7 16.0 24.0  
78 9.3 7.5 11.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.512 ppbv  
RT: 4.603 min Scan# 622  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 73 Resp: 909854  
Ion Ratio Lower Upper  
73 100  
57 23.9 18.2 27.4





#29

Chloroform

Concen: 9.672 ppbv

RT: 5.298 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

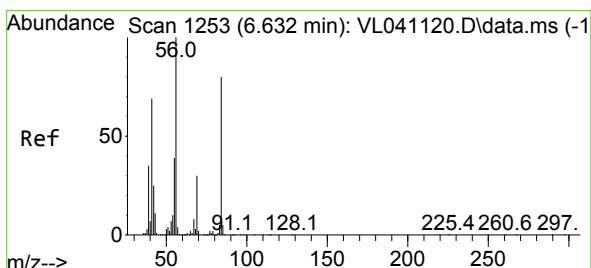
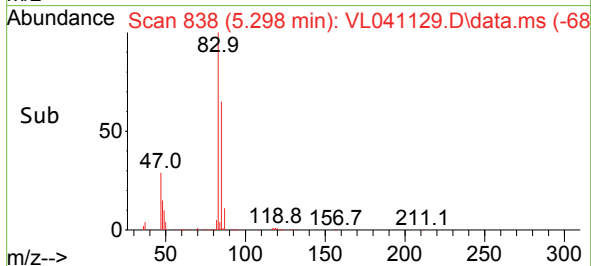
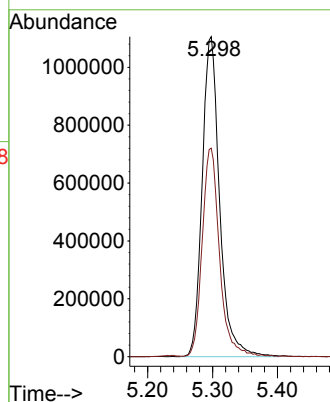
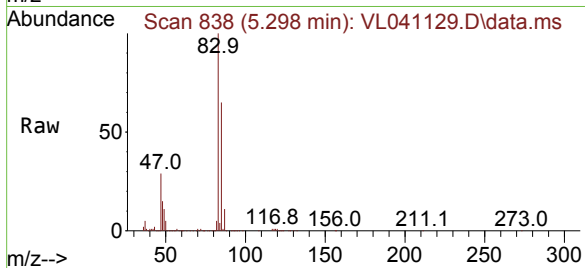
VL0404ABS01

Tgt Ion: 83 Resp: 2066504

Ion Ratio Lower Upper

83 100

85 65.0 54.6 82.0



#30

Cyclohexane

Concen: 9.965 ppbv

RT: 6.629 min Scan# 1252

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

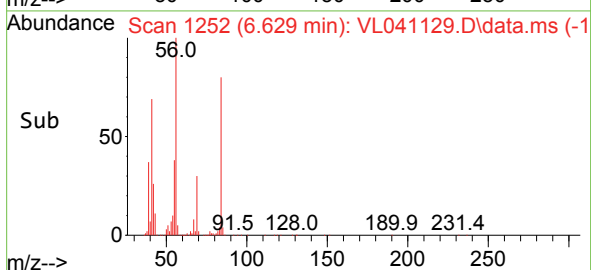
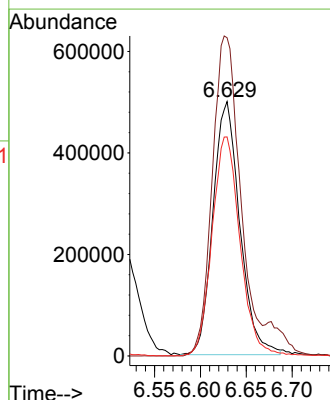
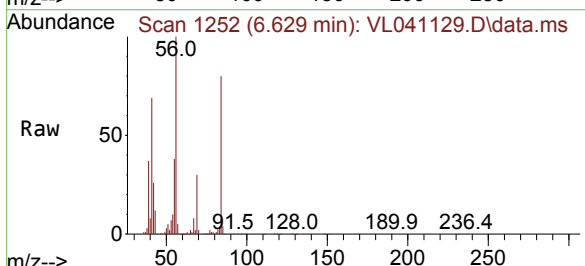
Tgt Ion: 84 Resp: 1015890

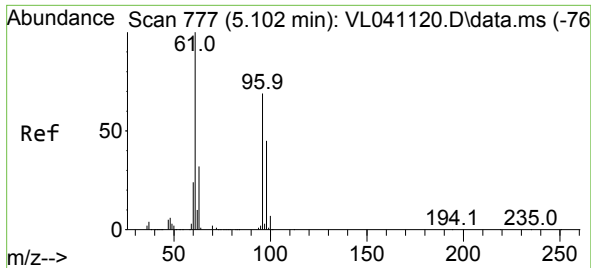
Ion Ratio Lower Upper

84 100

56 140.9 110.4 165.6

41 90.7 70.6 105.8

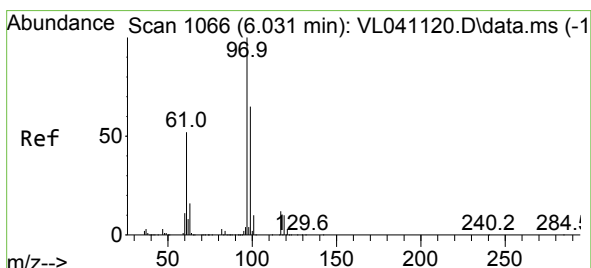
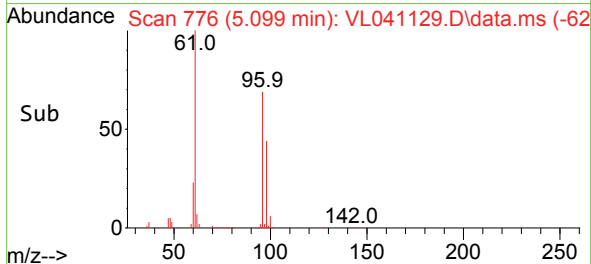
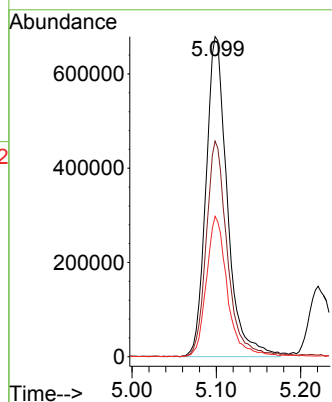
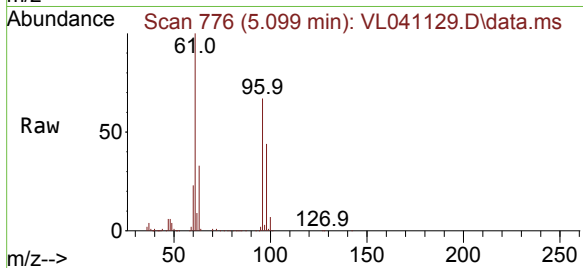




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.996 ppbv  
 RT: 5.099 min Scan# 71  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

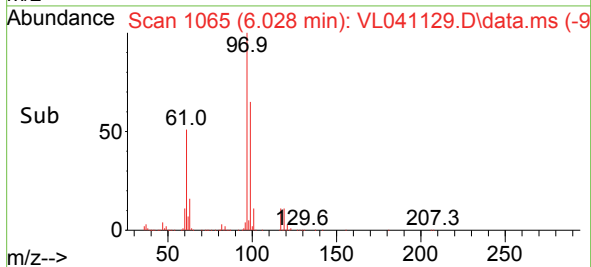
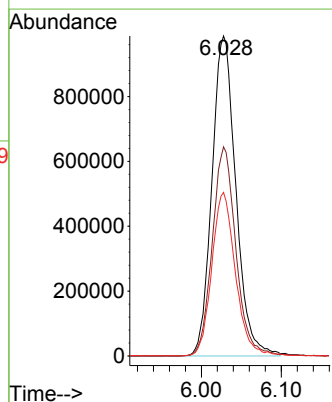
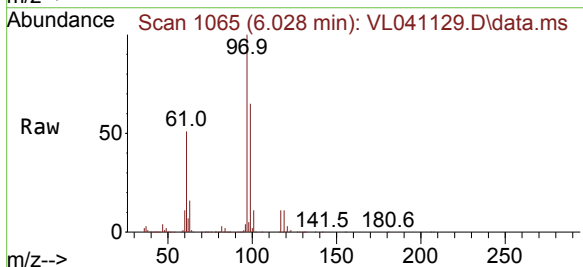
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

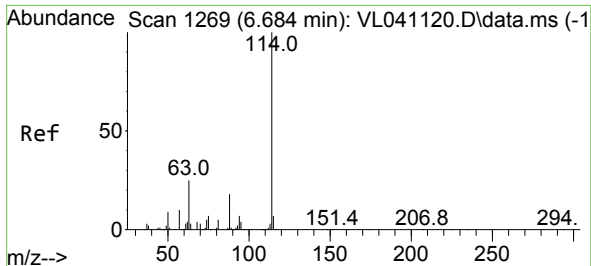
Tgt Ion: 61 Resp: 1199230  
 Ion Ratio Lower Upper  
 61 100  
 96 67.3 51.2 76.8  
 98 43.8 33.4 50.0



#32  
 1,1,1-Trichloroethane  
 Concen: 10.377 ppbv  
 RT: 6.028 min Scan# 1065  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Tgt Ion: 97 Resp: 2049605  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 52.4 78.6  
 61 50.4 40.4 60.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.681 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

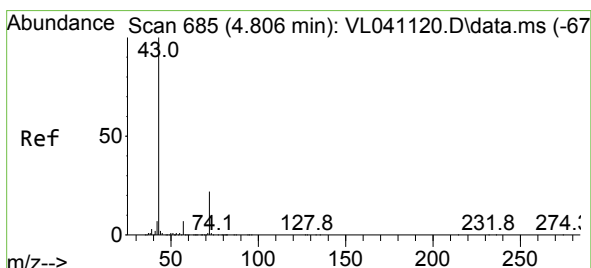
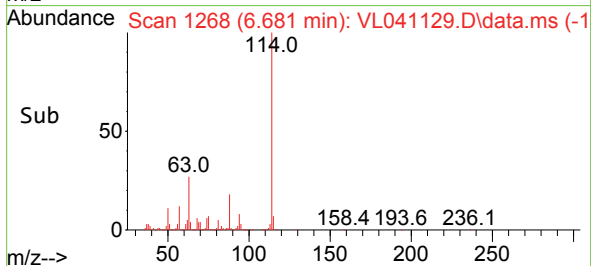
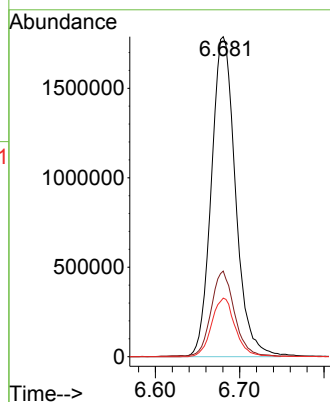
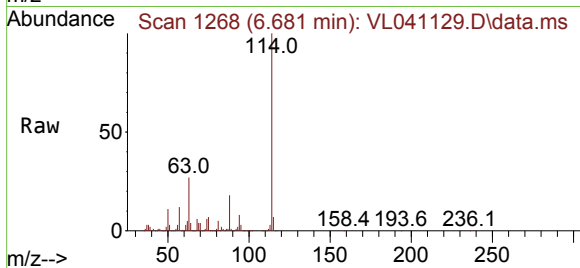
Tgt Ion:114 Resp: 3549601

Ion Ratio Lower Upper

114 100

63 26.6 21.0 31.6

88 18.1 14.6 22.0



#34

2-Butanone

Concen: 9.529 ppbv

RT: 4.803 min Scan# 684

Delta R.T. -0.003 min

Lab File: VL041129.D

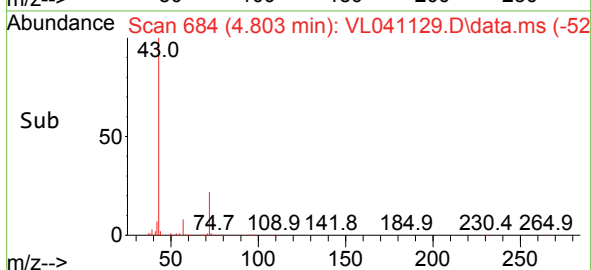
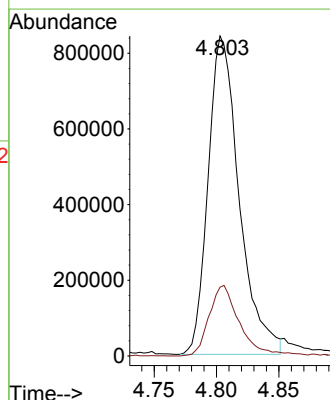
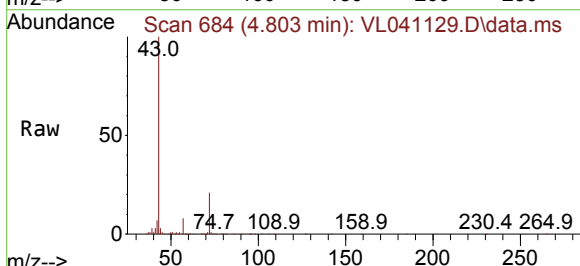
Acq: 4 Apr 2024 17:28

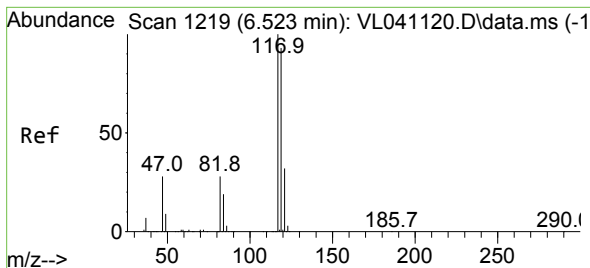
Tgt Ion: 43 Resp: 1461000

Ion Ratio Lower Upper

43 100

72 22.5 17.4 26.0





#35

Carbon Tetrachloride

Concen: 10.529 ppbv

RT: 6.520 min Scan# 1180

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

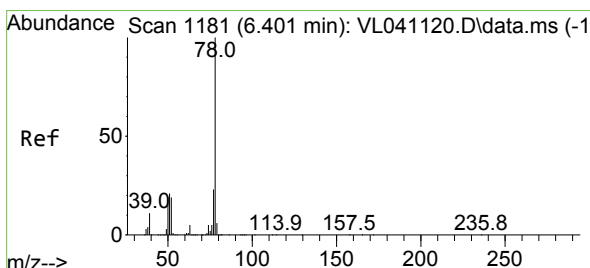
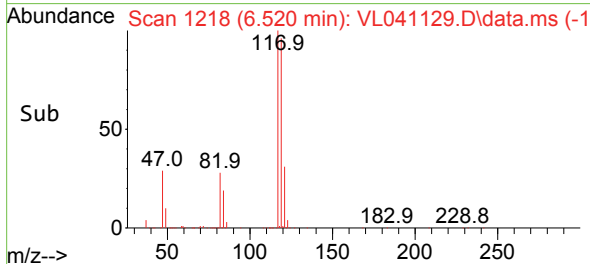
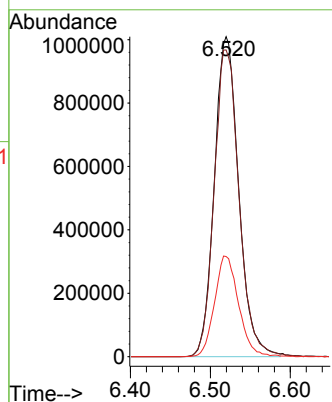
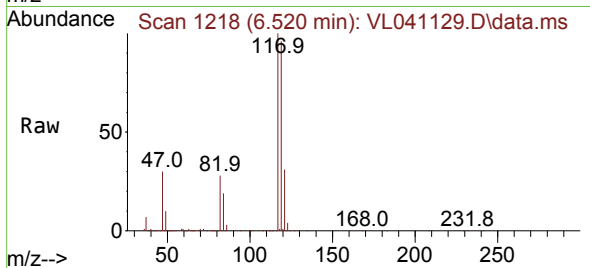
Tgt Ion:117 Resp: 2132440

Ion Ratio Lower Upper

117 100

119 95.8 75.6 113.4

121 31.3 23.4 35.2



#36

Benzene

Concen: 9.944 ppbv

RT: 6.398 min Scan# 1180

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

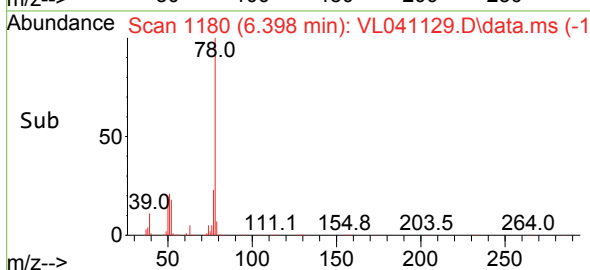
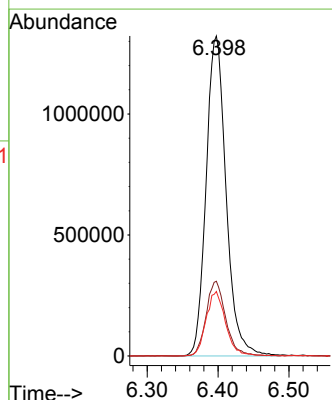
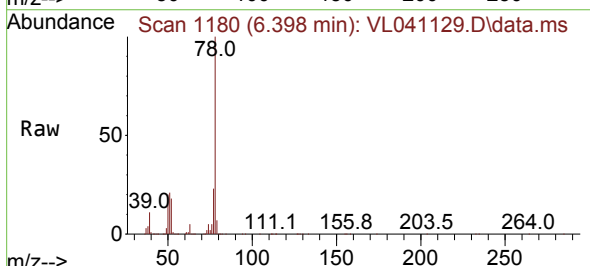
Tgt Ion: 78 Resp: 2589236

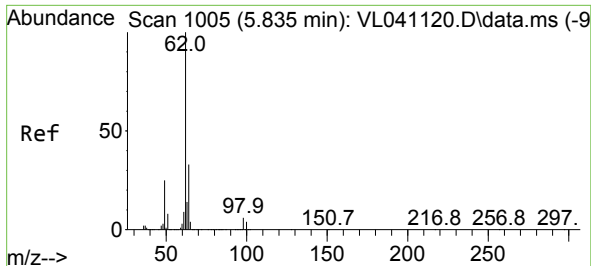
Ion Ratio Lower Upper

78 100

77 23.3 18.8 28.2

50 20.1 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.106 ppbv

RT: 5.828 min Scan# 1003

Delta R.T. -0.006 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

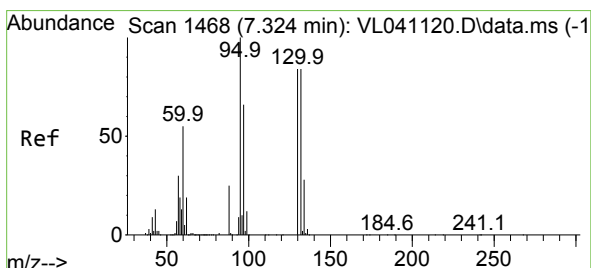
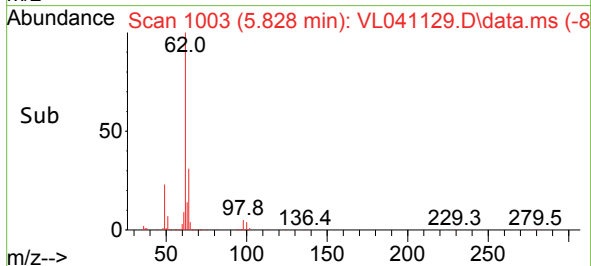
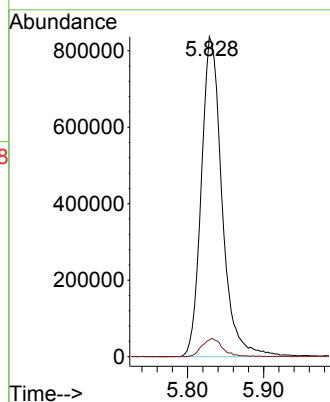
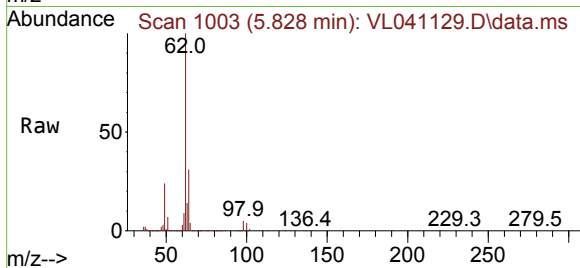
VL0404ABS01

Tgt Ion: 62 Resp: 1581744

Ion Ratio Lower Upper

62 100

98 5.8 4.6 6.8



#38

Trichloroethene

Concen: 10.814 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Tgt Ion:130 Resp: 1021929

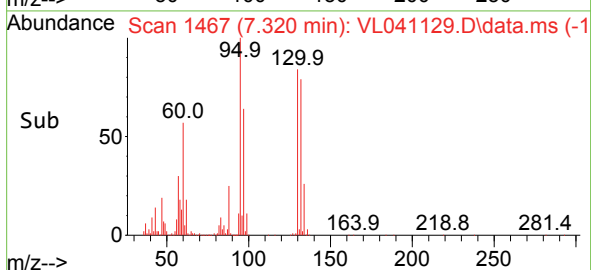
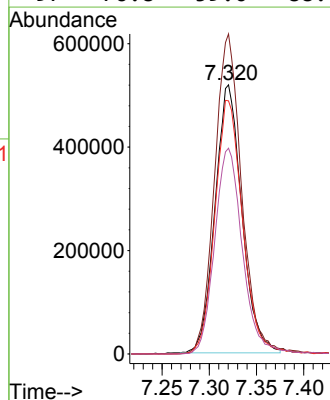
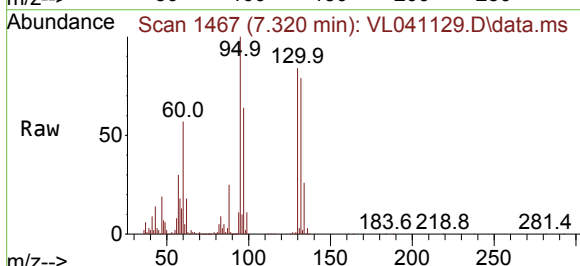
Ion Ratio Lower Upper

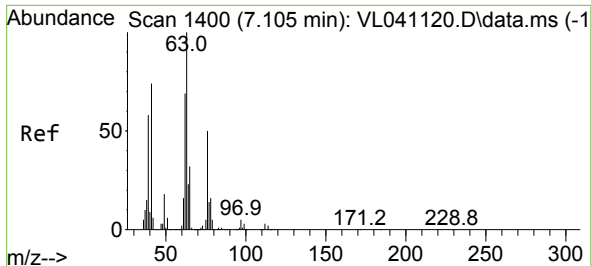
130 100

95 119.4 88.8 133.2

132 94.3 73.0 109.4

97 76.8 59.0 88.4





#39

1,2-Dichloropropane

Concen: 9.733 ppbv

RT: 7.098 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

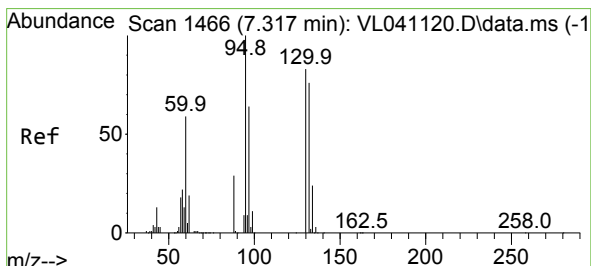
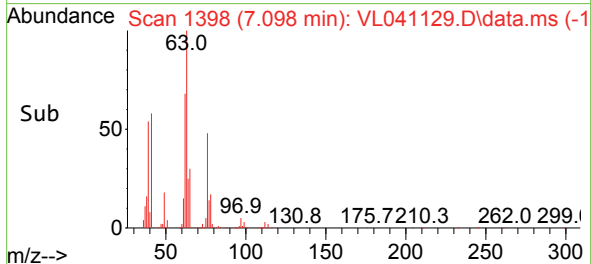
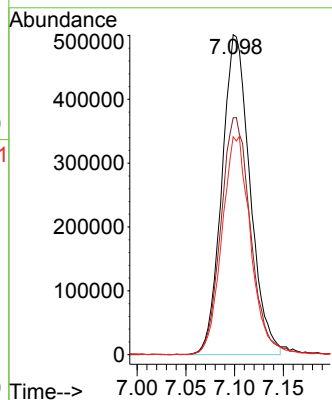
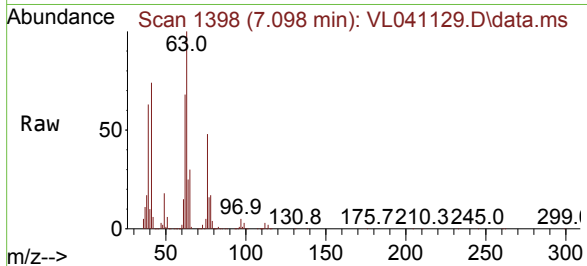
MSVOA\_L

ClientSampleId :

VL0404ABS01

Tgt Ion: 63 Resp: 1005961

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 74.0  | 62.2  | 93.4  |
| 62  | 68.1  | 57.0  | 85.4  |



#40

1,4-Dioxane

Concen: 4.515 ppbv

RT: 7.311 min Scan# 1464

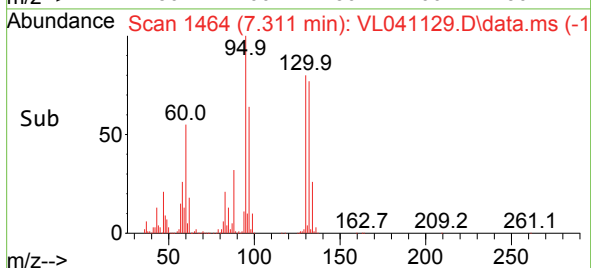
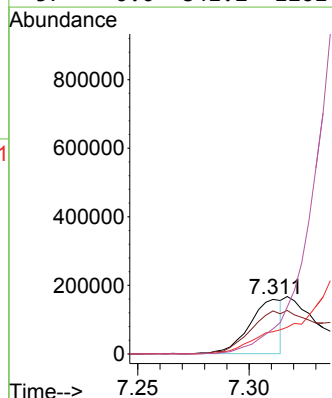
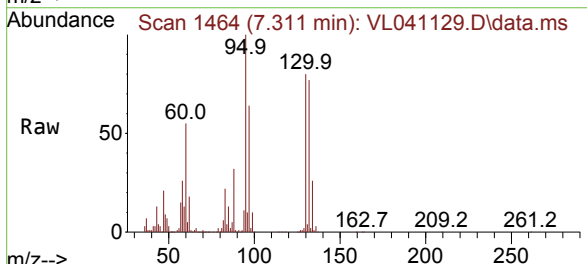
Delta R.T. -0.006 min

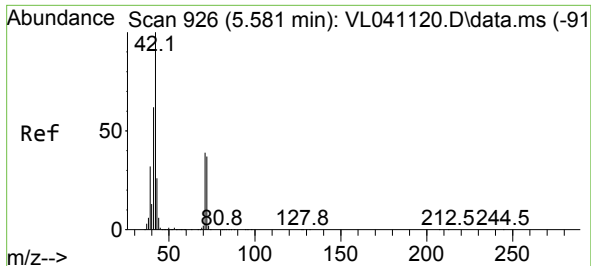
Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Tgt Ion: 88 Resp: 159960

| Ion | Ratio | Lower | Upper   |
|-----|-------|-------|---------|
| 88  | 100   |       |         |
| 58  | 0.0   | 96.3  | 144.5#  |
| 43  | 0.0   | 195.7 | 293.5#  |
| 57  | 0.0   | 841.2 | 1261.8# |

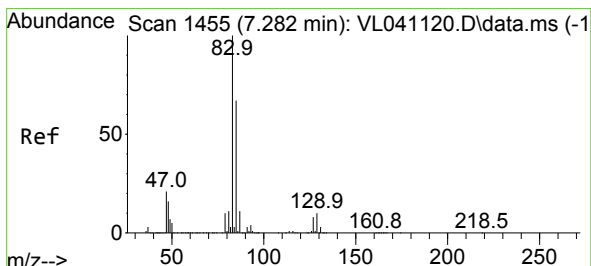
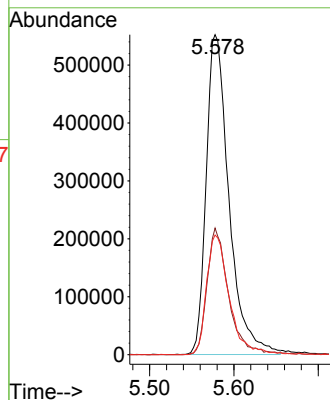
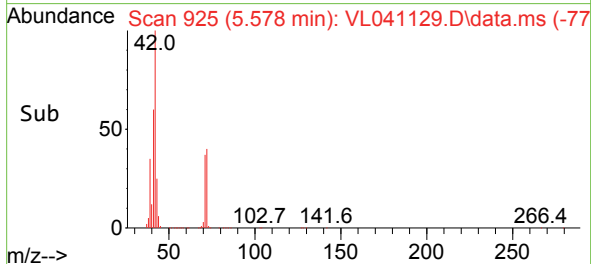
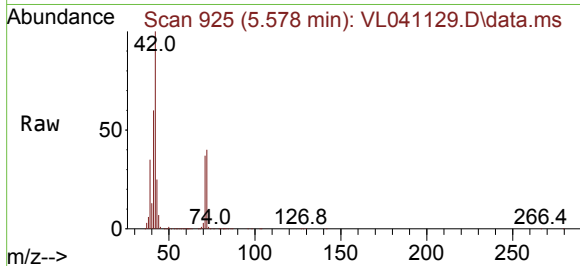




#41  
Tetrahydrofuran  
Concen: 10.602 ppbv  
RT: 5.578 min Scan# 91  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

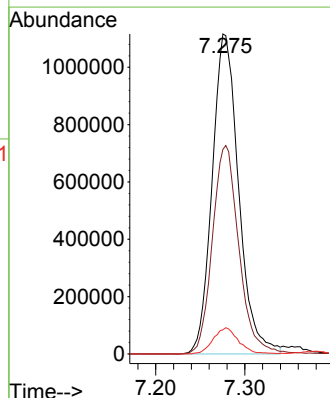
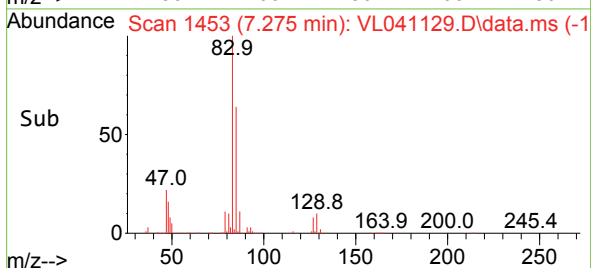
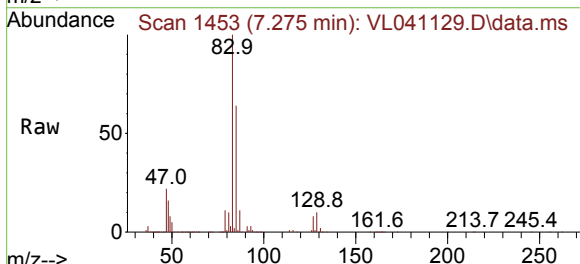
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

Tgt Ion: 42 Resp: 1039671  
Ion Ratio Lower Upper  
42 100  
72 37.7 30.7 46.1  
71 37.2 29.6 44.4

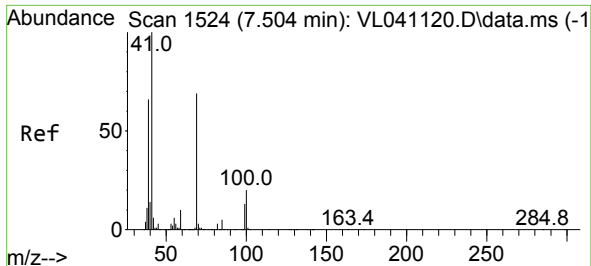


#42  
Bromodichloromethane  
Concen: 10.309 ppbv  
RT: 7.275 min Scan# 1453  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 83 Resp: 2305059  
Ion Ratio Lower Upper  
83 100  
85 64.0 53.1 79.7  
127 7.6 6.2 9.4





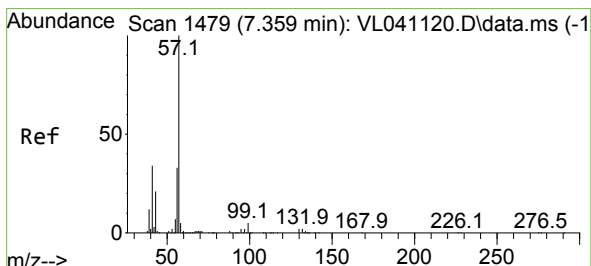
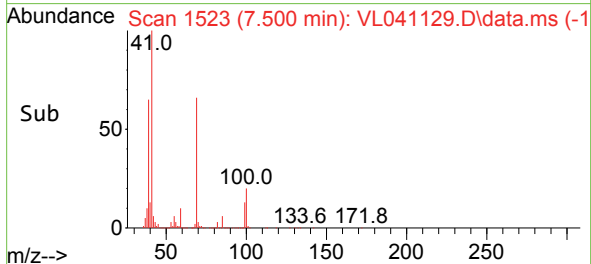
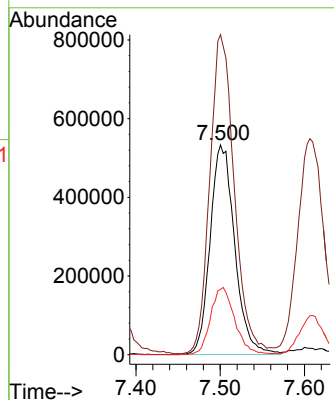
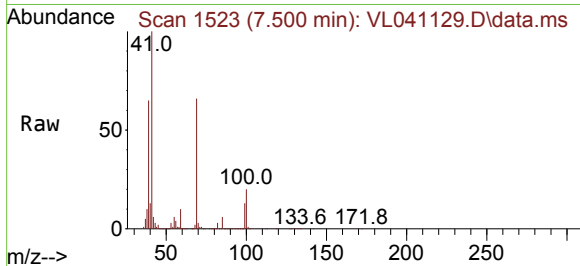


#43  
Methyl Methacrylate  
Concen: 11.956 ppbv  
RT: 7.500 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

Tgt Ion: 69 Resp: 1081398

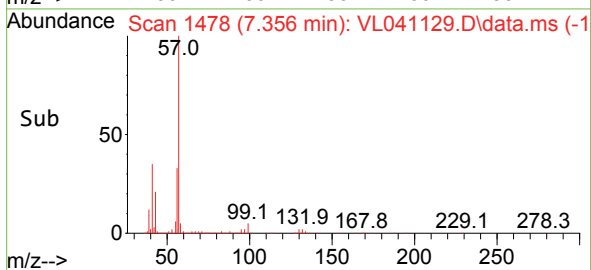
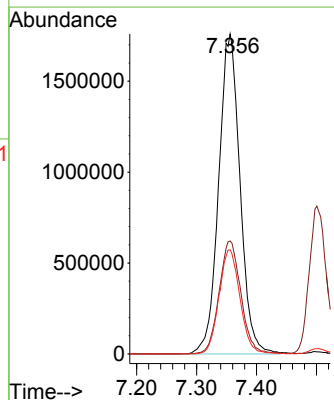
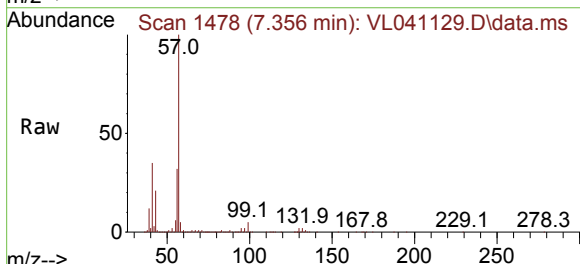
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 152.4 | 118.2 | 177.4 |
| 100 | 31.5  | 24.8  | 37.2  |

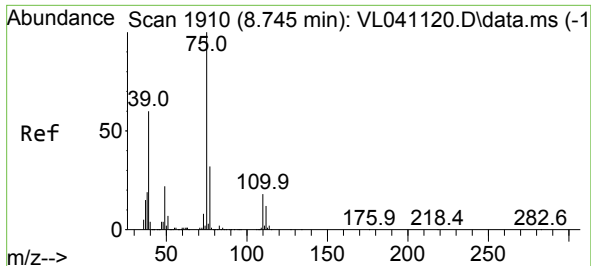


#44  
2,2,4-Trimethylpentane  
Concen: 10.055 ppbv  
RT: 7.356 min Scan# 1478  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 57 Resp: 4339012

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 36.1  | 28.0  | 42.0  |
| 56  | 32.0  | 25.7  | 38.5  |





#45

t-1,3-Dichloropropene

Concen: 10.053 ppbv

RT: 8.742 min Scan# 1910

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

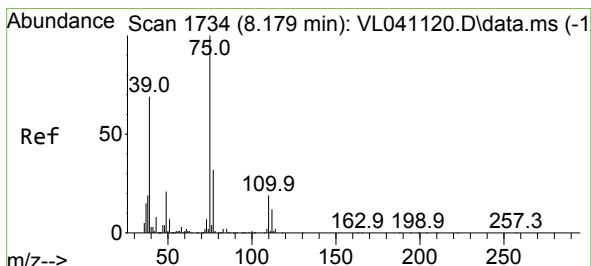
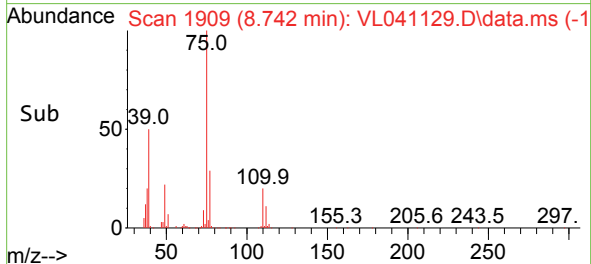
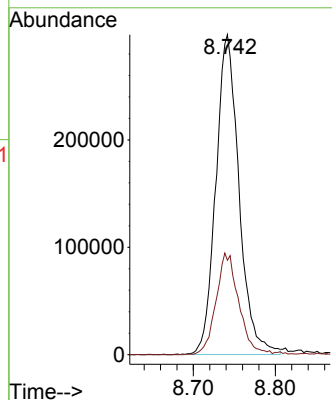
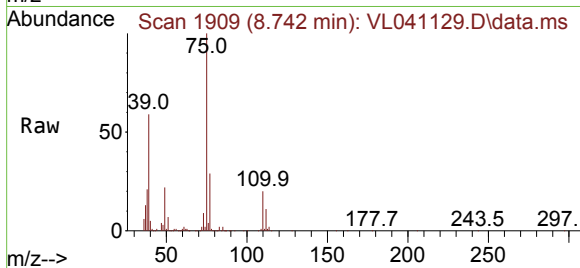
VL0404ABS01

Tgt Ion: 75 Resp: 586035

Ion Ratio Lower Upper

75 100

77 29.5 25.3 37.9



#46

cis-1,3-Dichloropropene

Concen: 10.268 ppbv

RT: 8.172 min Scan# 1732

Delta R.T. -0.006 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

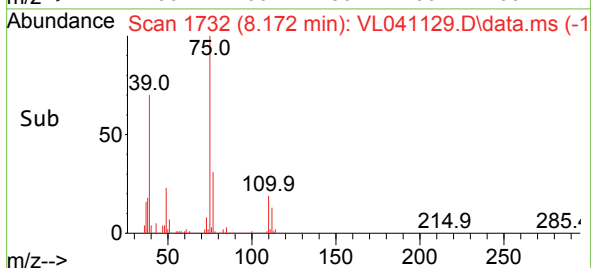
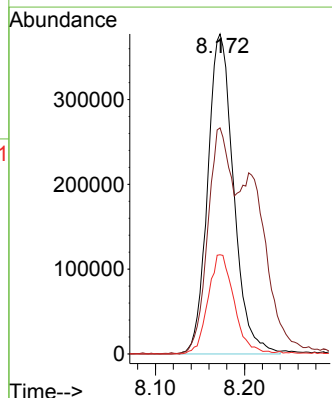
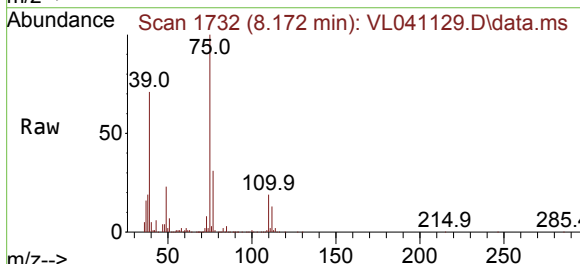
Tgt Ion: 75 Resp: 761994

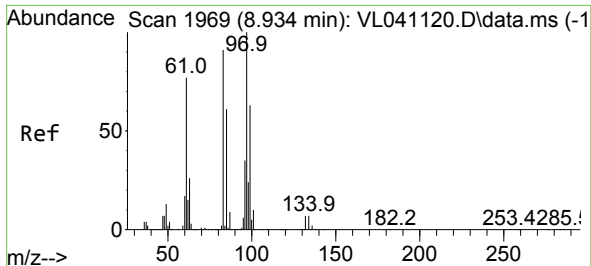
Ion Ratio Lower Upper

75 100

39 70.3 53.3 79.9

77 31.0 25.2 37.8



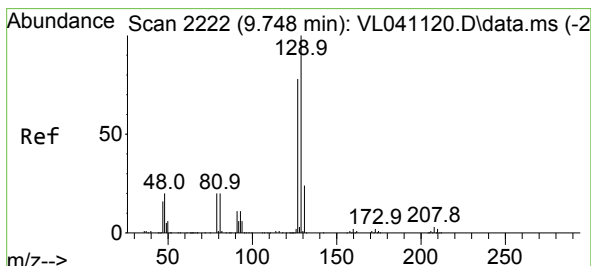
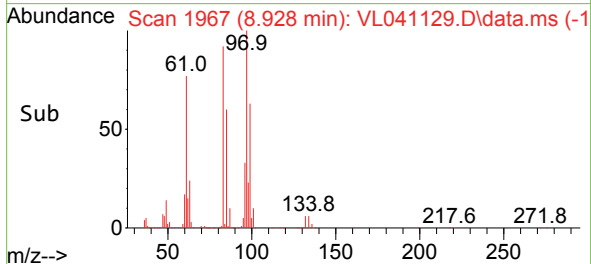
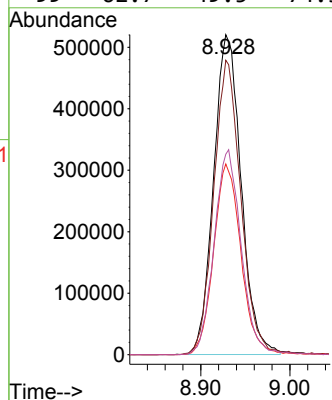
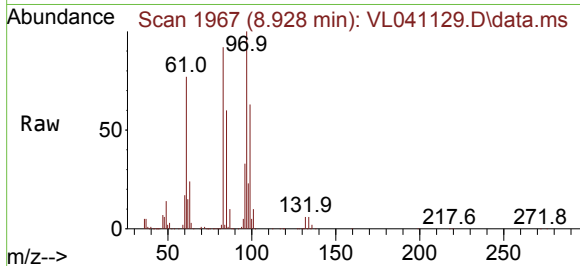


#47  
 1,1,2-Trichloroethane  
 Concen: 10.055 ppbv  
 RT: 8.928 min Scan# 1967  
 Delta R.T. -0.006 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

Tgt Ion: 97 Resp: 1117012

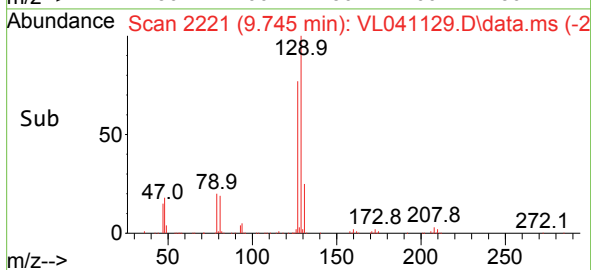
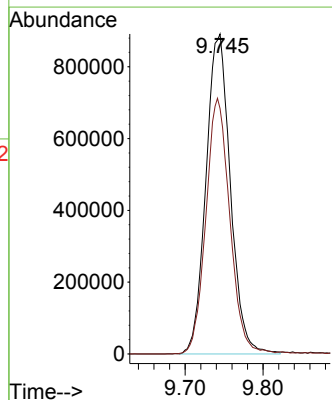
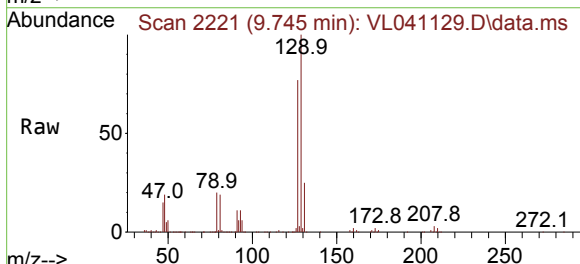
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 92.1  | 71.1  | 106.7 |
| 85  | 59.5  | 48.2  | 72.2  |
| 99  | 62.7  | 49.5  | 74.3  |

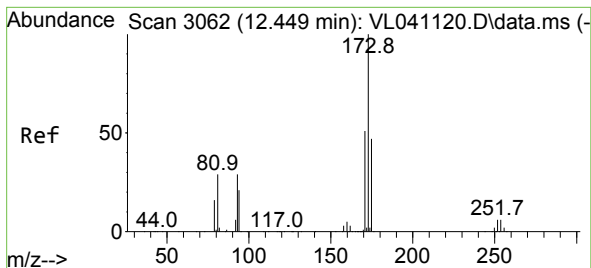


#48  
 Dibromochloromethane  
 Concen: 11.005 ppbv  
 RT: 9.745 min Scan# 2221  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Tgt Ion: 129 Resp: 1940510

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 79.1  | 39.6  | 118.8 |





#49

Bromoform

Concen: 11.248 ppbv

RT: 12.442 min Scan# 3060

Delta R.T. -0.006 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

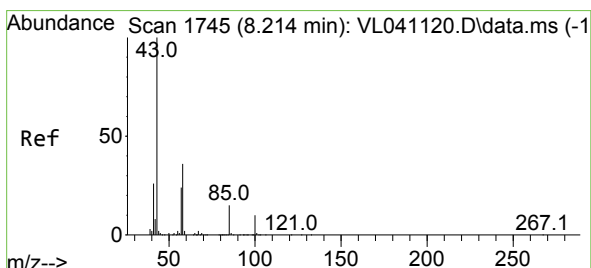
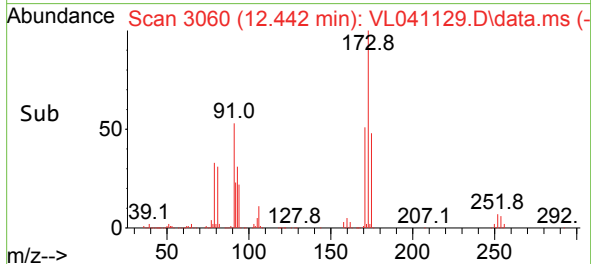
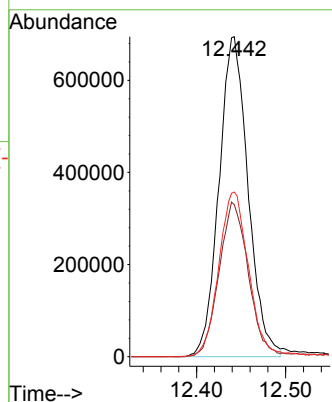
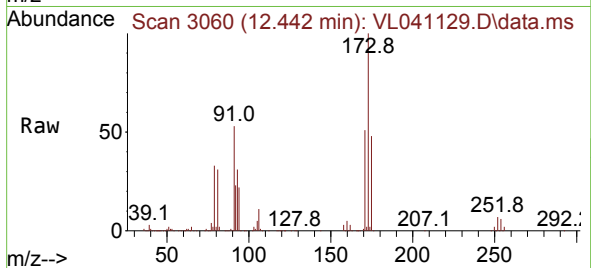
Tgt Ion:173 Resp: 1572289

Ion Ratio Lower Upper

173 100

175 49.8 39.0 58.6

171 53.2 41.8 62.8



#50

4-Methyl-2-Pentanone

Concen: 10.681 ppbv

RT: 8.211 min Scan# 1744

Delta R.T. -0.003 min

Lab File: VL041129.D

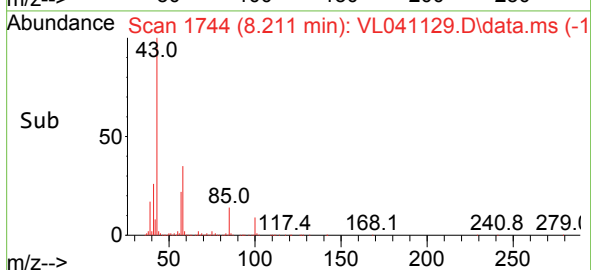
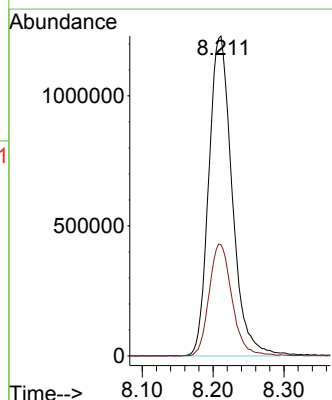
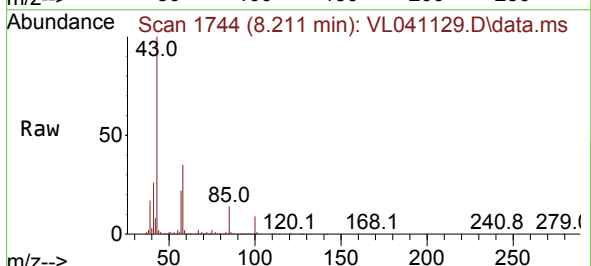
Acq: 4 Apr 2024 17:28

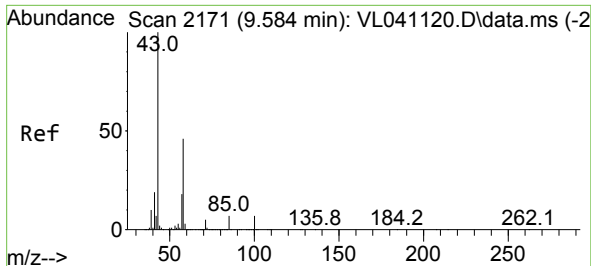
Tgt Ion: 43 Resp: 2809897

Ion Ratio Lower Upper

43 100

58 34.6 28.3 42.5



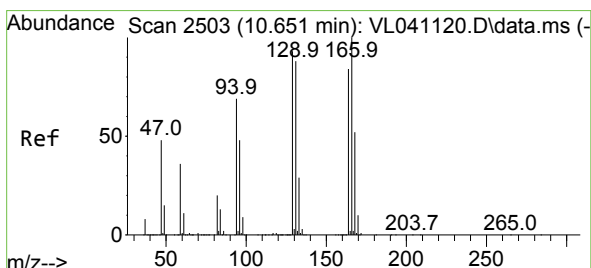
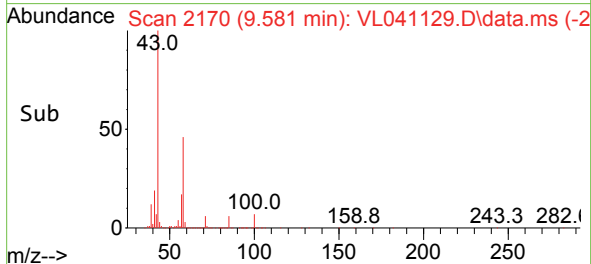
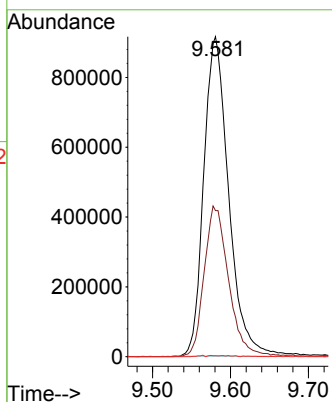
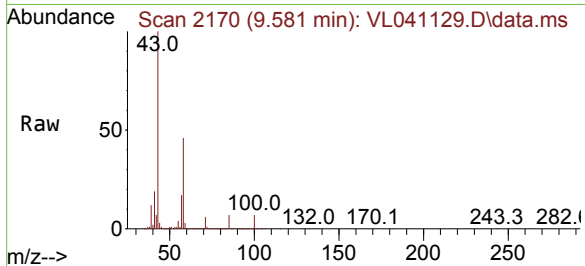


#51  
2-Hexanone  
Concen: 11.101 ppbv  
RT: 9.581 min Scan# 2171  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

Tgt Ion: 43 Resp: 2024773

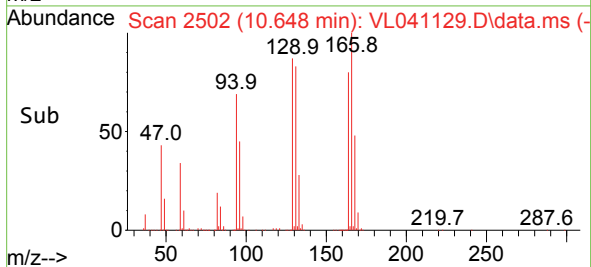
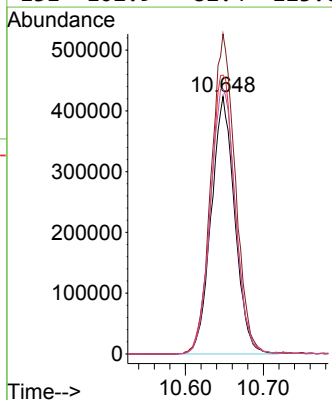
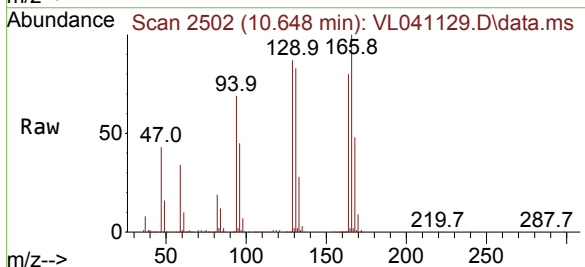
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 46.7  | 37.4  | 56.2  |
| 98  | 0.5   | 0.4   | 0.6   |

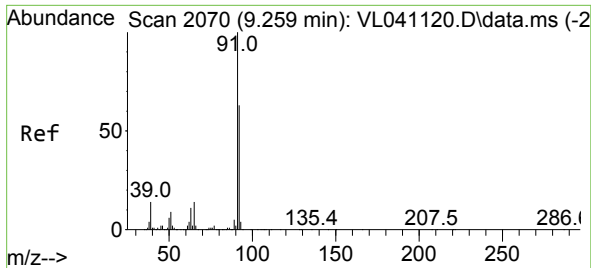


#52  
Tetrachloroethene  
Concen: 10.625 ppbv  
RT: 10.648 min Scan# 2502  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:164 Resp: 886962

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 124.3 | 100.6 | 150.8 |
| 129 | 108.2 | 87.2  | 130.8 |
| 131 | 102.9 | 82.4  | 123.6 |

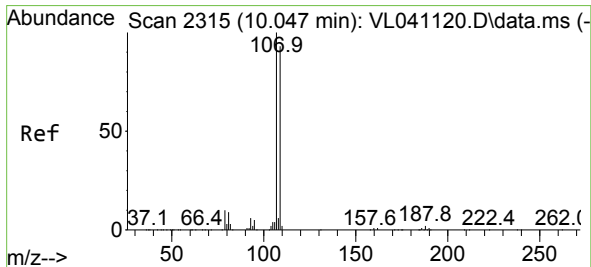
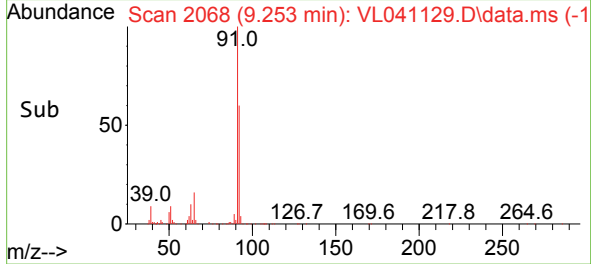
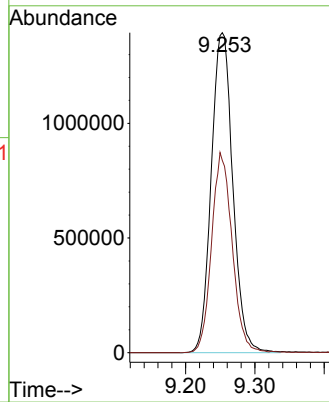
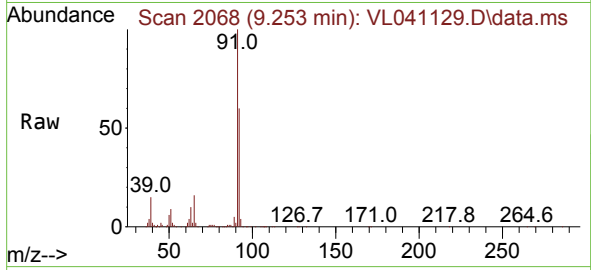




#53  
Toluene  
Concen: 10.921 ppbv  
RT: 9.253 min Scan# 2070  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

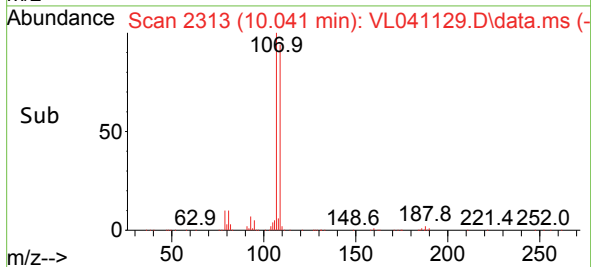
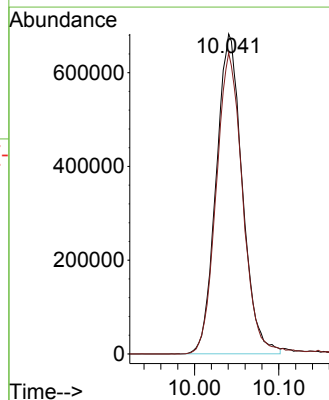
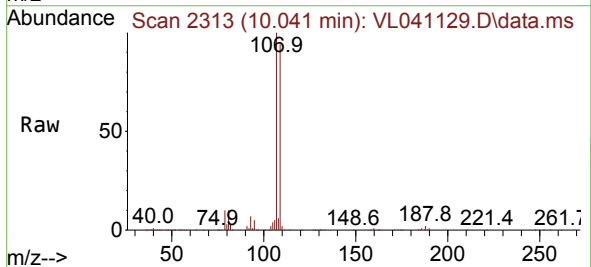
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

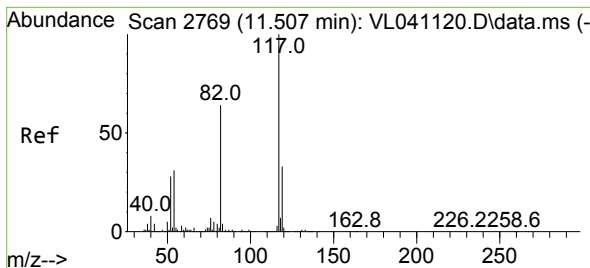
Tgt Ion: 91 Resp: 3008080  
Ion Ratio Lower Upper  
91 100  
92 60.1 48.9 73.3



#54  
1,2-Dibromoethane  
Concen: 10.601 ppbv  
RT: 10.041 min Scan# 2313  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 107 Resp: 1467635  
Ion Ratio Lower Upper  
107 100  
109 94.1 74.4 111.6

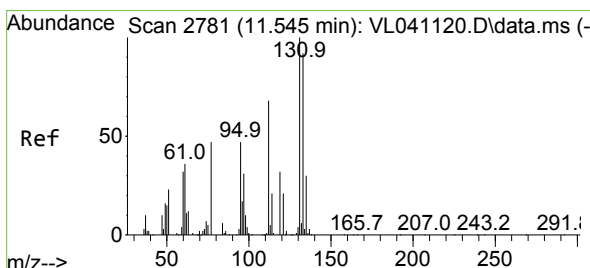
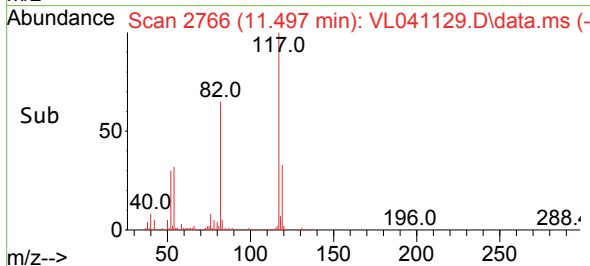
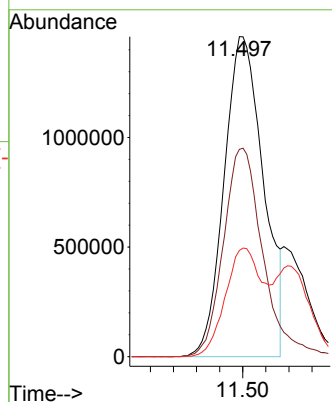
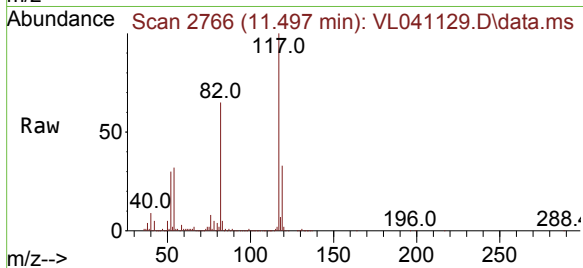




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.497 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

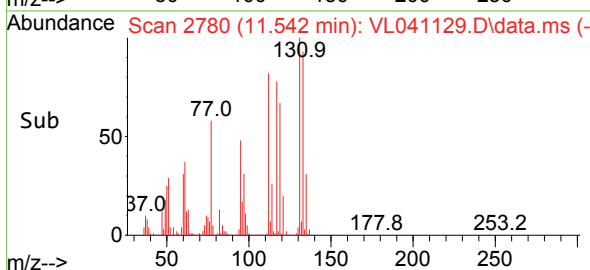
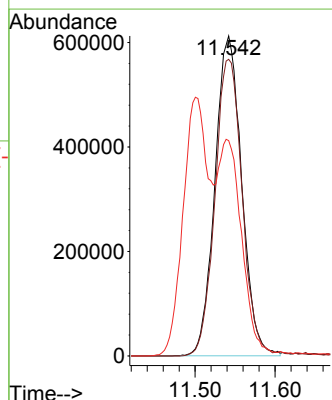
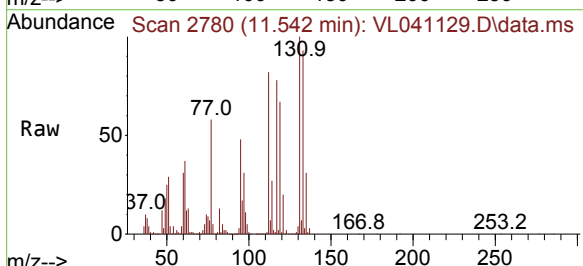
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

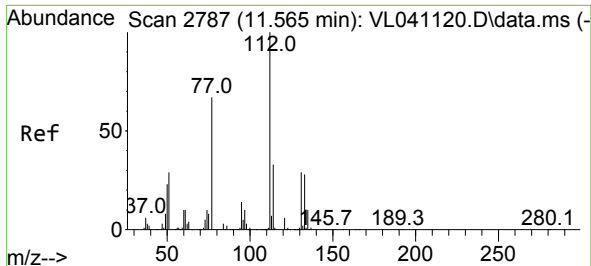
Tgt Ion:117 Resp: 3460381  
Ion Ratio Lower Upper  
117 100  
82 65.9 51.4 77.2  
119 32.0 23.7 35.5



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.945 ppbv  
RT: 11.542 min Scan# 2780  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:131 Resp: 1421979  
Ion Ratio Lower Upper  
131 100  
133 96.0 76.1 114.1  
119 68.9 51.1 76.7

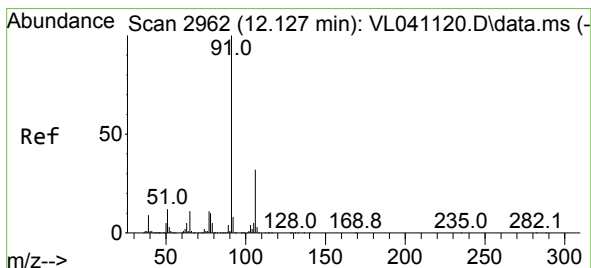
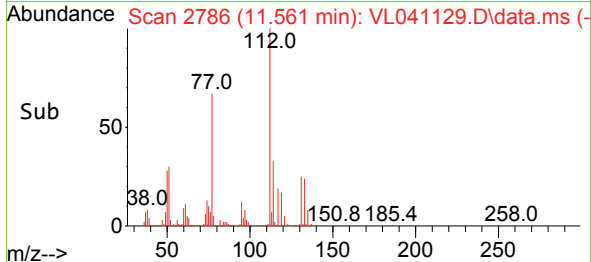
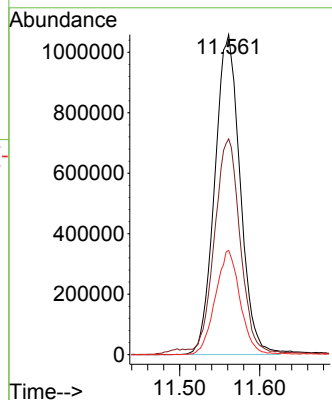
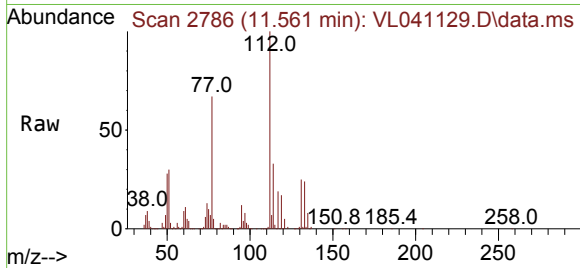




#57  
Chlorobenzene  
Concen: 9.848 ppbv  
RT: 11.561 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

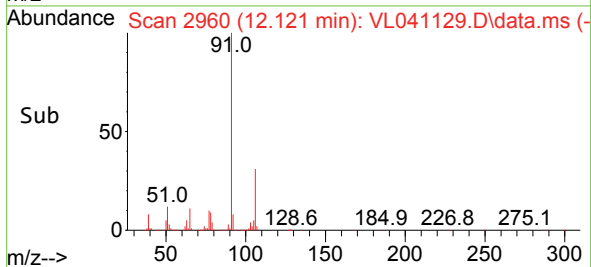
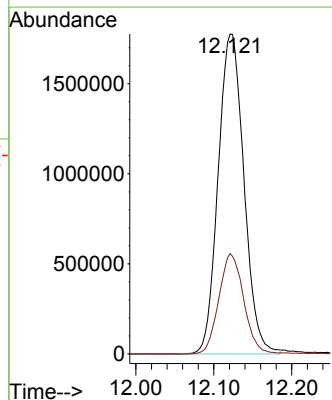
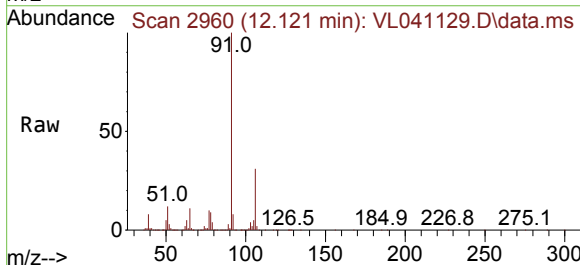
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

Tgt Ion:112 Resp: 2330208  
Ion Ratio Lower Upper  
112 100  
77 66.7 54.6 81.8  
114 32.6 29.4 36.0

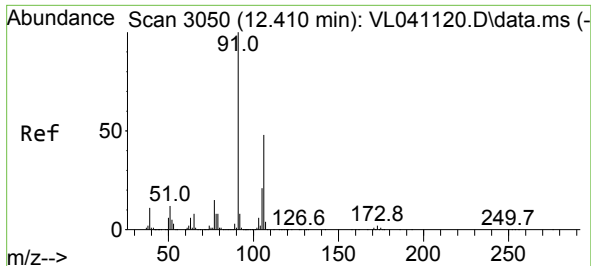


#58  
Ethyl Benzene  
Concen: 10.710 ppbv  
RT: 12.121 min Scan# 2960  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion: 91 Resp: 4081276  
Ion Ratio Lower Upper  
91 100  
106 31.3 24.6 36.8







#59

m/p-Xylene

Concen: 11.124 ppbv

RT: 12.407 min Scan# 3049

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

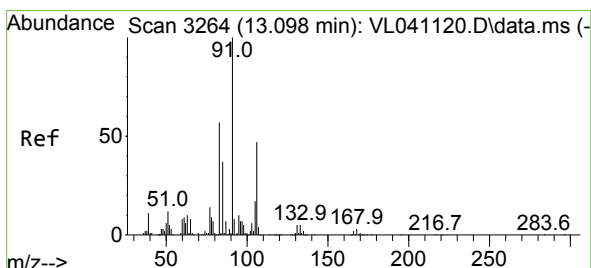
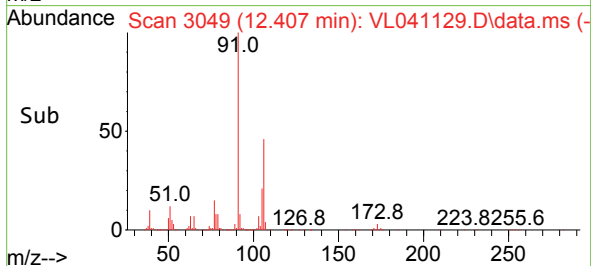
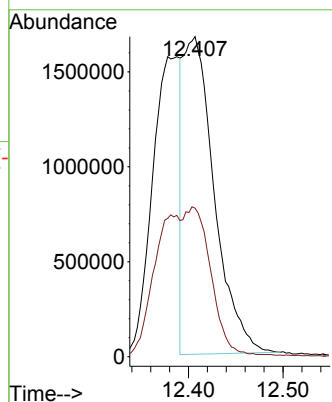
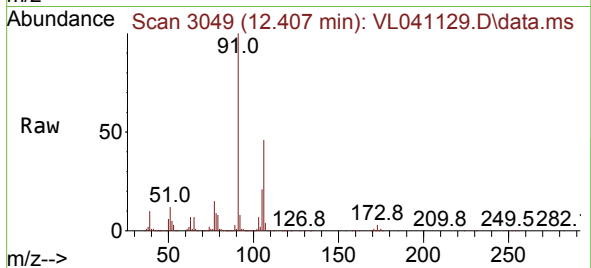
VL0404ABS01

Tgt Ion: 91 Resp: 3824661

Ion Ratio Lower Upper

91 100

106 81.5 35.4 53.2#



#60

o-Xylene

Concen: 10.366 ppbv

RT: 13.092 min Scan# 3262

Delta R.T. -0.006 min

Lab File: VL041129.D

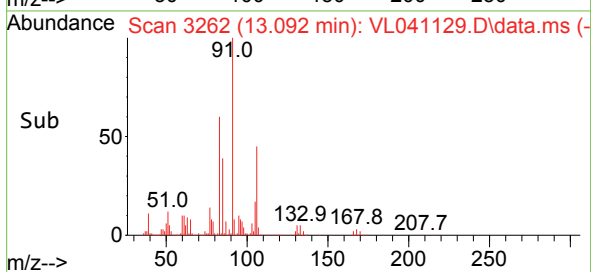
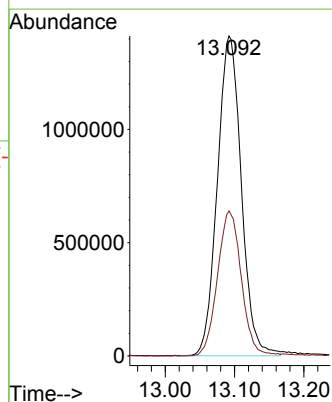
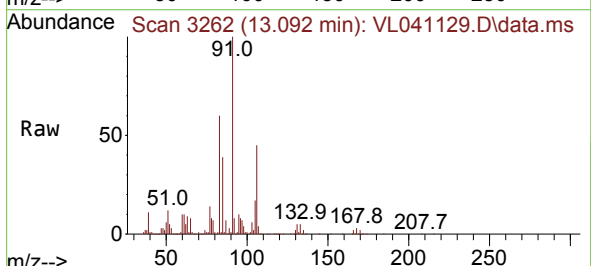
Acq: 4 Apr 2024 17:28

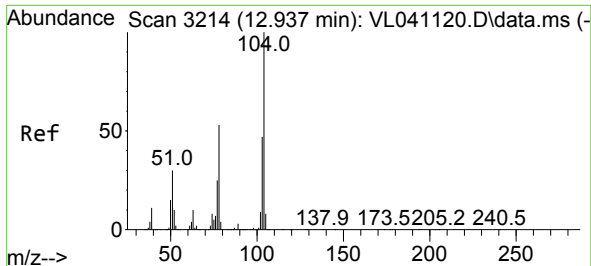
Tgt Ion: 91 Resp: 3394410

Ion Ratio Lower Upper

91 100

106 45.8 22.4 67.3

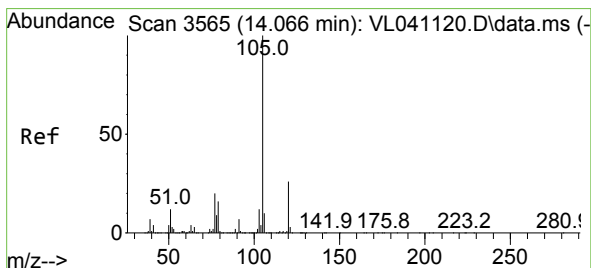
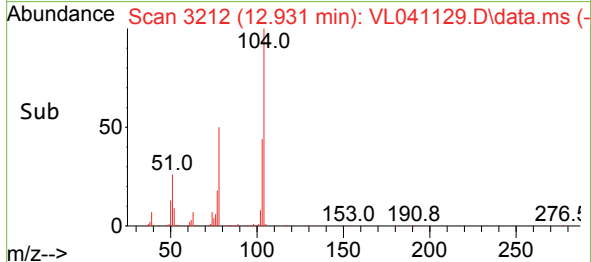
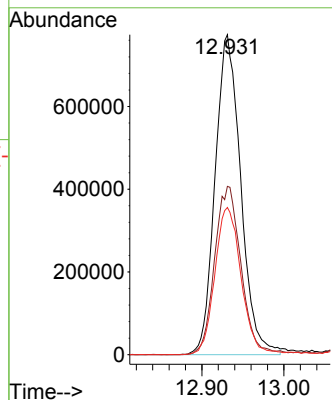
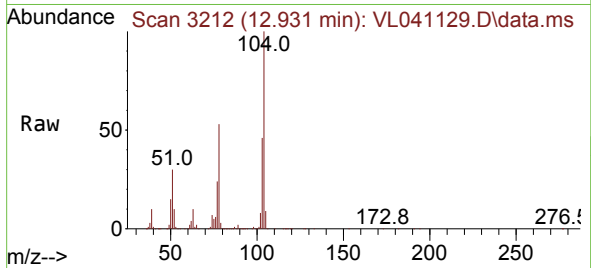




#61  
Styrene  
Concen: 11.588 ppbv  
RT: 12.931 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

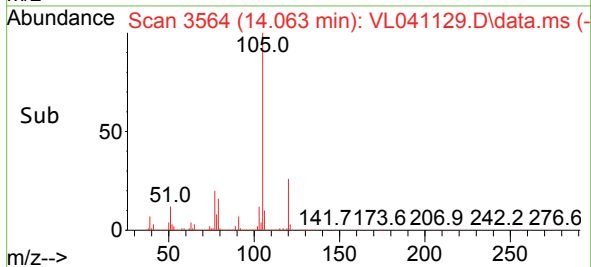
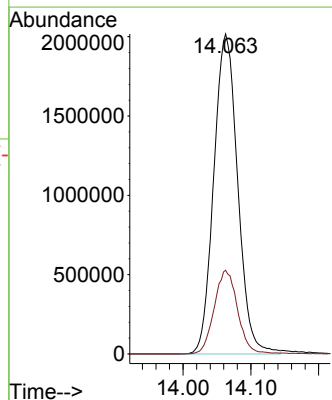
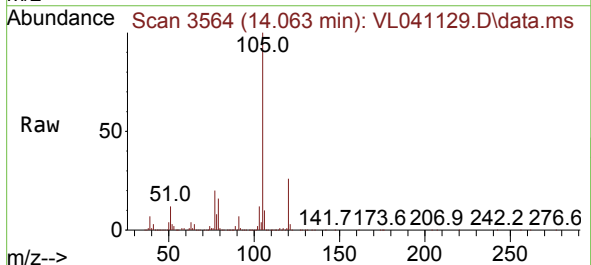
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

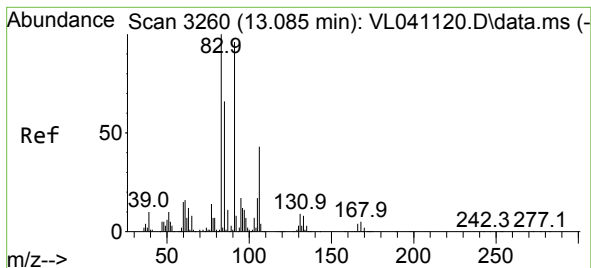
Tgt Ion:104 Resp: 1681761  
Ion Ratio Lower Upper  
104 100  
78 54.8 42.6 64.0  
103 47.8 37.3 55.9



#62  
Isopropylbenzene  
Concen: 10.158 ppbv  
RT: 14.063 min Scan# 3564  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:105 Resp: 4936423  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.5 30.7

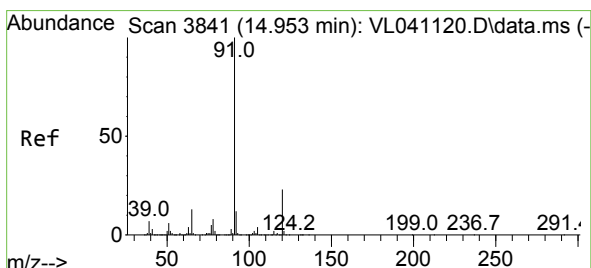
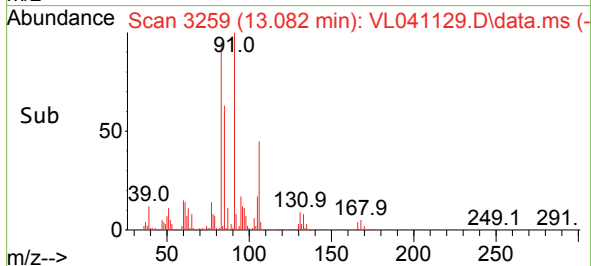
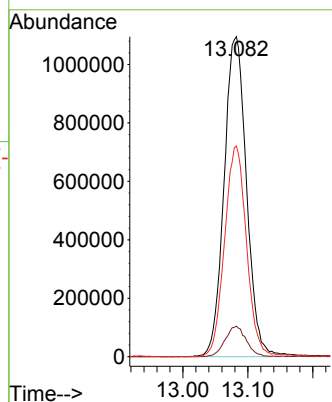
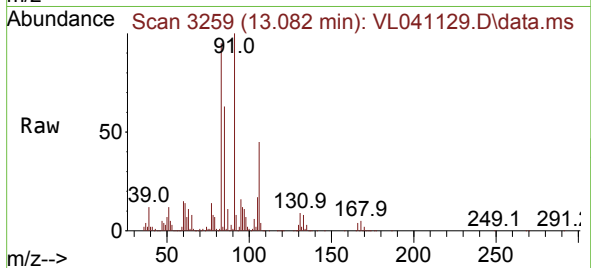




#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.166 ppbv  
RT: 13.082 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

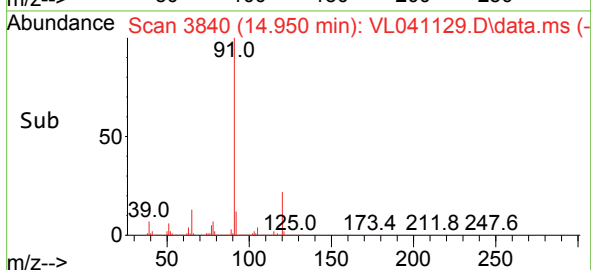
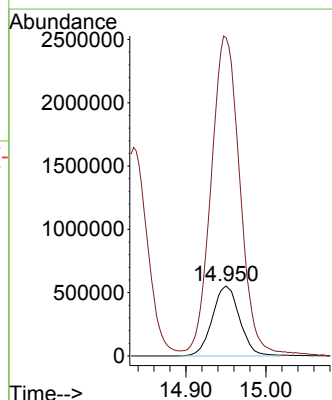
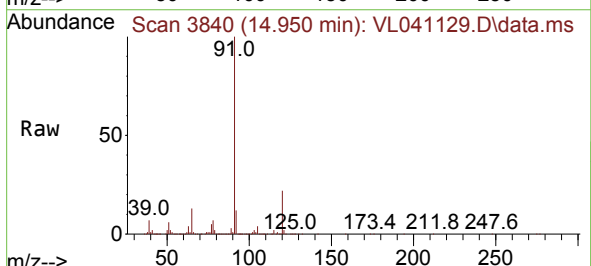
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

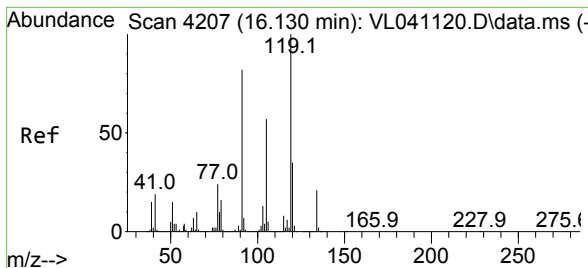
Tgt Ion: 83 Resp: 2618183  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.7 14.0  
85 64.9 32.7 98.1



#64  
n-propylbenzene  
Concen: 10.725 ppbv  
RT: 14.950 min Scan# 3840  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:120 Resp: 1305387  
Ion Ratio Lower Upper  
120 100  
91 487.7 387.5 581.3





#65

tert-Butylbenzene

Concen: 10.440 ppbv

RT: 16.124 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

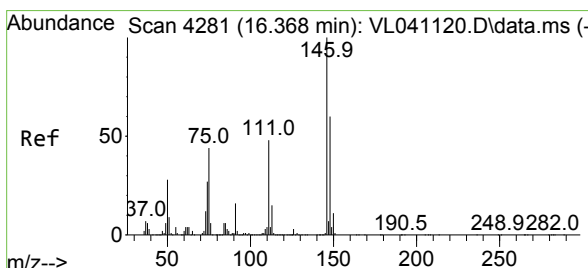
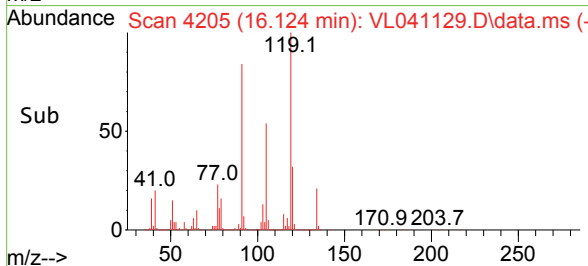
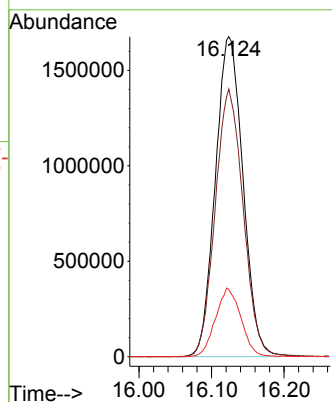
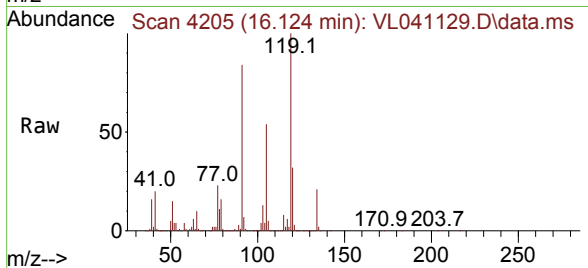
Tgt Ion:119 Resp: 4432990

Ion Ratio Lower Upper

119 100

91 84.8 67.8 101.8

134 19.8 16.2 24.2



#66

Benzyl Chloride

Concen: 4.200 ppbv

RT: 16.359 min Scan# 4278

Delta R.T. -0.010 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

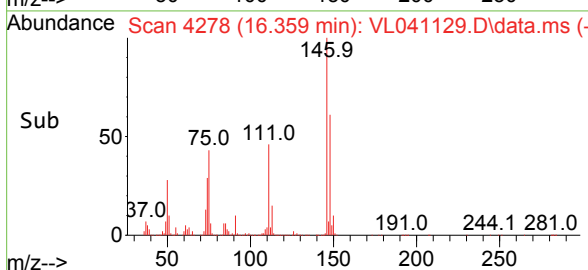
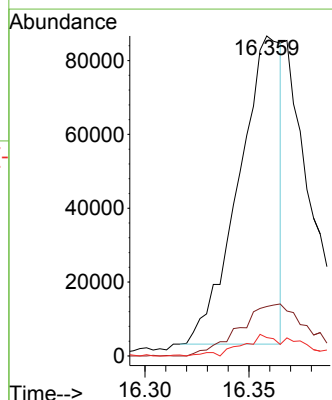
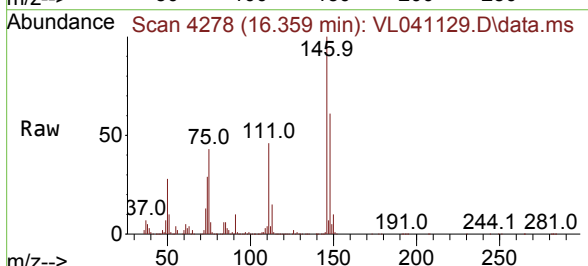
Tgt Ion: 91 Resp: 117643

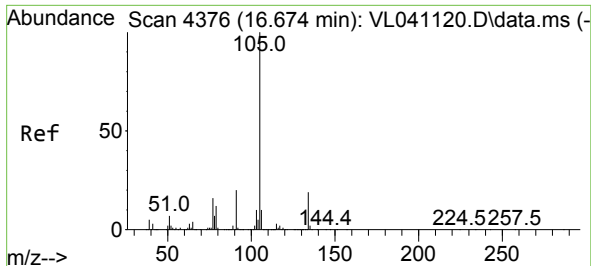
Ion Ratio Lower Upper

91 100

126 0.0 14.1 21.1#

128 10.2 4.6 7.0#

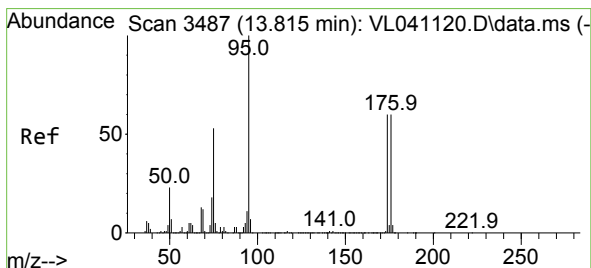
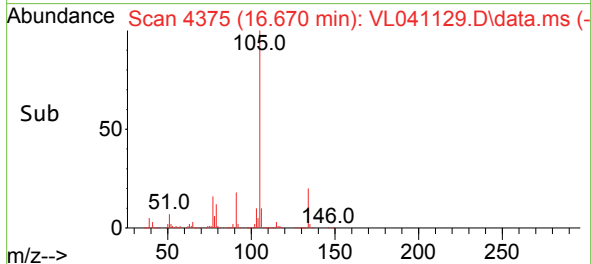
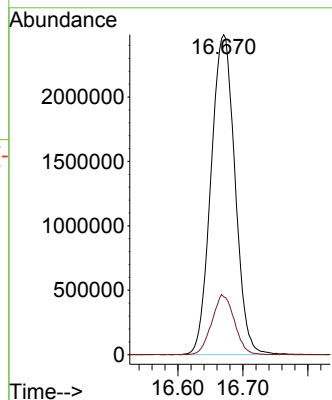
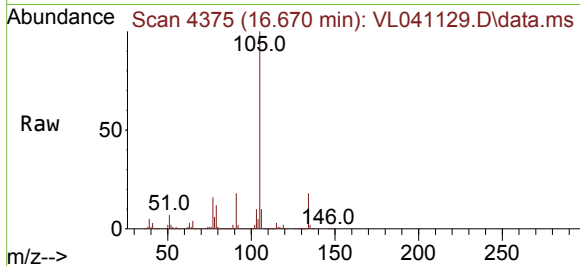




#67  
 sec-Butylbenzene  
 Concen: 10.387 ppbv  
 RT: 16.670 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

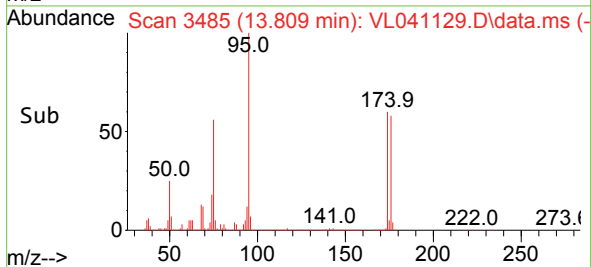
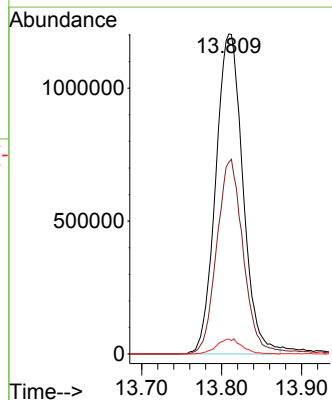
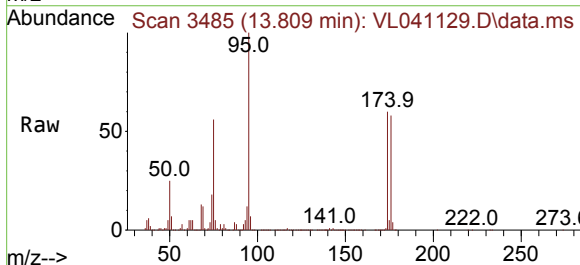
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01

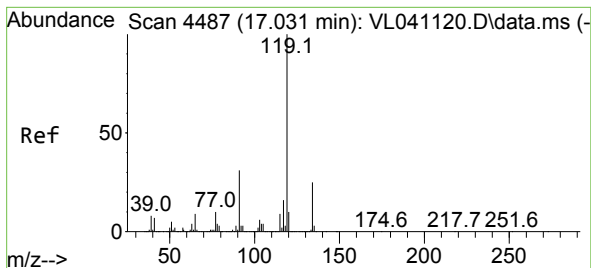
Tgt Ion:105 Resp: 6358133  
 Ion Ratio Lower Upper  
 105 100  
 134 17.8 14.3 21.5



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.157 ppbv  
 RT: 13.809 min Scan# 3485  
 Delta R.T. -0.006 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Tgt Ion: 95 Resp: 2837866  
 Ion Ratio Lower Upper  
 95 100  
 174 60.7 47.8 71.8  
 175 4.5 3.5 5.3





#69

p-Isopropyltoluene

Concen: 10.780 ppbv

RT: 17.027 min Scan# 4486

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

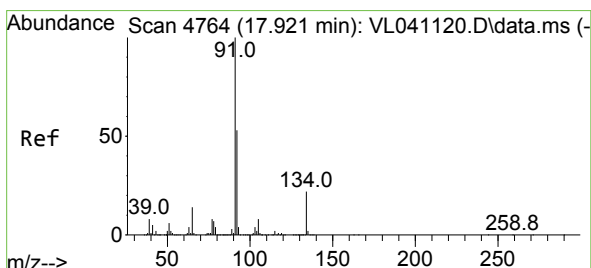
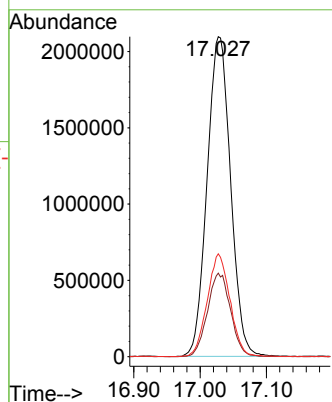
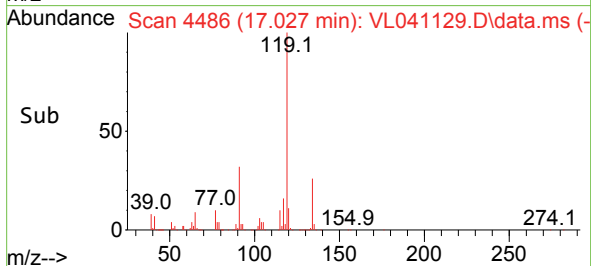
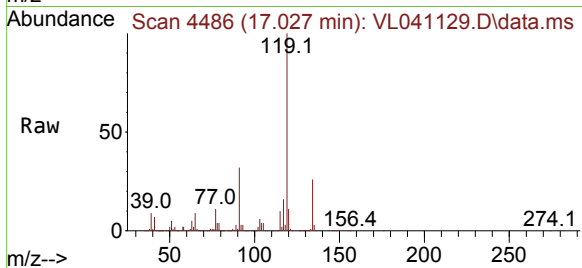
Tgt Ion:119 Resp: 5147162

Ion Ratio Lower Upper

119 100

134 25.7 20.6 30.8

91 31.2 24.7 37.1



#70

n-Butylbenzene

Concen: 10.939 ppbv

RT: 17.918 min Scan# 4763

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

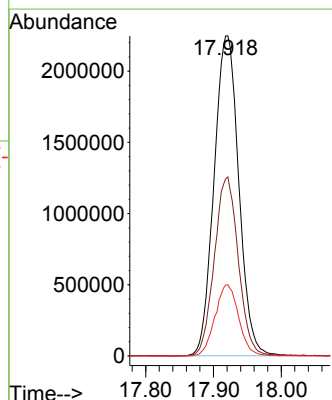
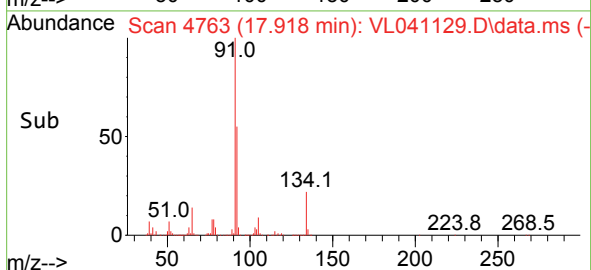
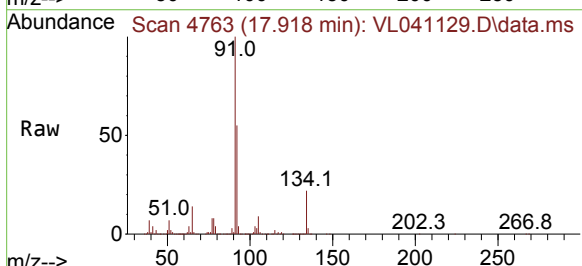
Tgt Ion: 91 Resp: 5688495

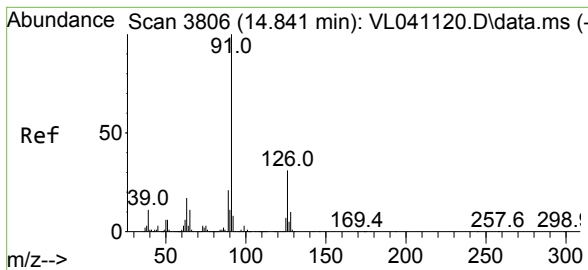
Ion Ratio Lower Upper

91 100

92 54.4 43.4 65.2

134 21.4 17.4 26.0

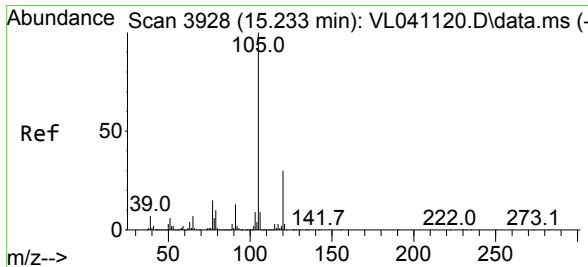
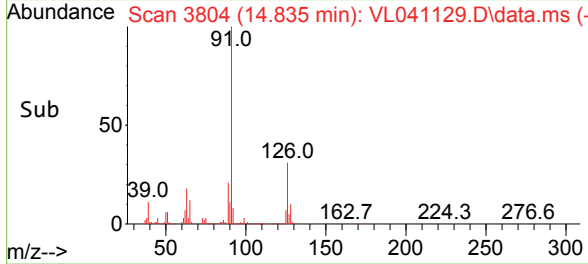
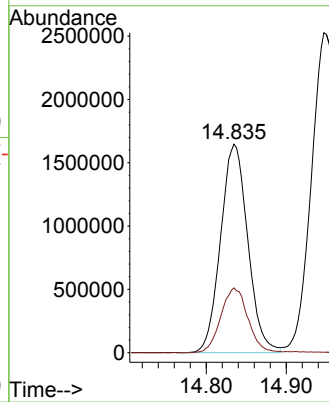
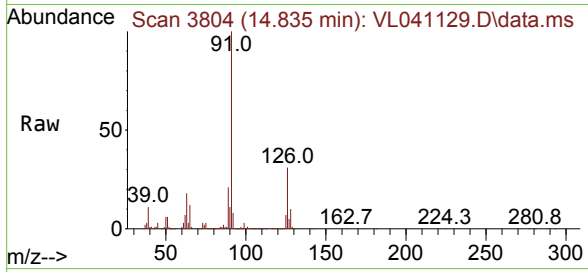




#71  
2-Chlorotoluene  
Concen: 10.438 ppbv  
RT: 14.835 min Scan# 3804  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

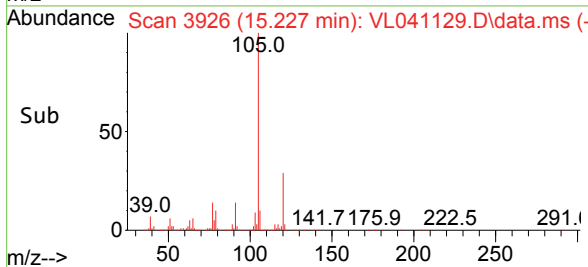
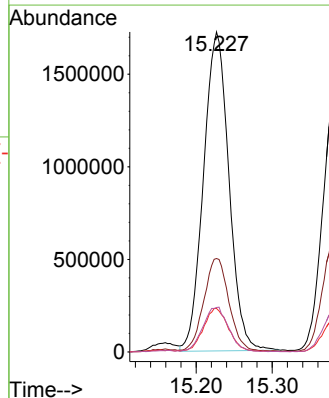
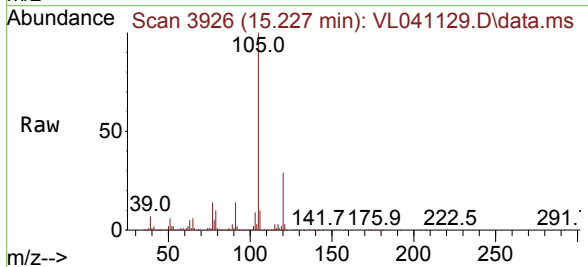
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

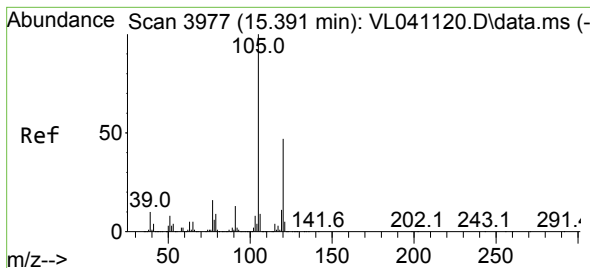
Tgt Ion: 91 Resp: 3885784  
Ion Ratio Lower Upper  
91 100  
126 31.6 12.2 48.8



#72  
4-Ethyltoluene  
Concen: 11.074 ppbv  
RT: 15.227 min Scan# 3926  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:105 Resp: 4001744  
Ion Ratio Lower Upper  
105 100  
120 29.5 23.8 35.8  
91 13.3 10.9 16.3  
77 14.8 11.8 17.6





#73

1,3,5-Trimethylbenzene

Concen: 10.801 ppbv

RT: 15.384 min Scan# 3975

Delta R.T. -0.006 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

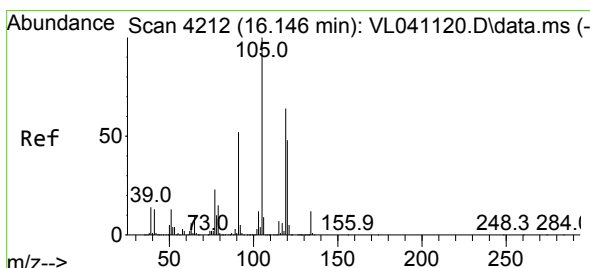
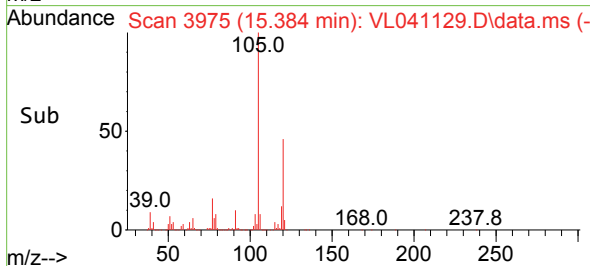
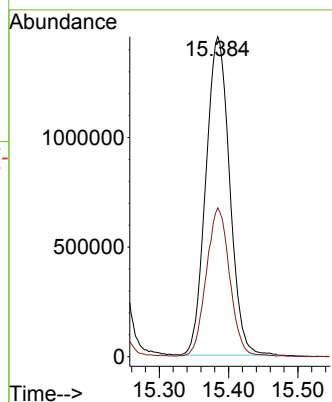
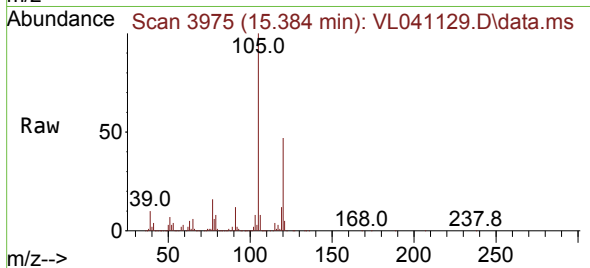
VL0404ABS01

Tgt Ion:105 Resp: 3471686

Ion Ratio Lower Upper

105 100

120 46.4 38.7 58.1



#74

1,2,4-Trimethylbenzene

Concen: 10.400 ppbv

RT: 16.143 min Scan# 4211

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Tgt Ion:105 Resp: 3851163

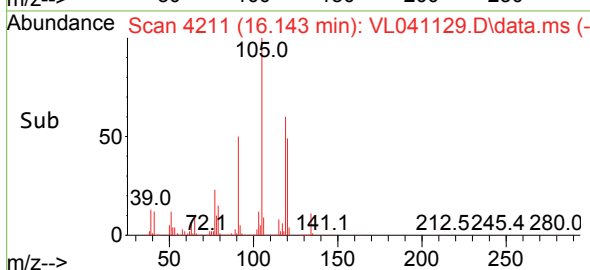
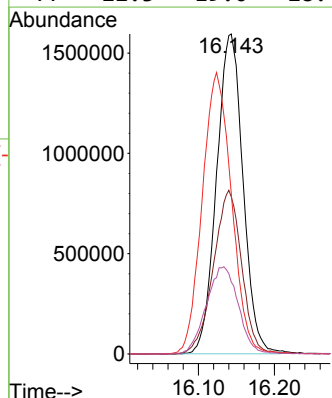
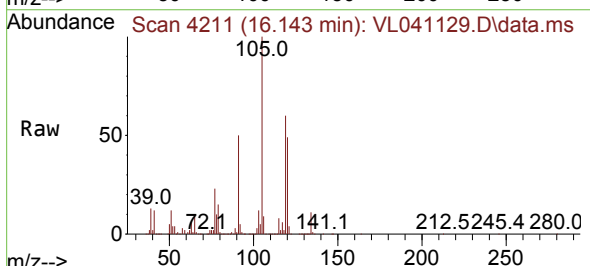
Ion Ratio Lower Upper

105 100

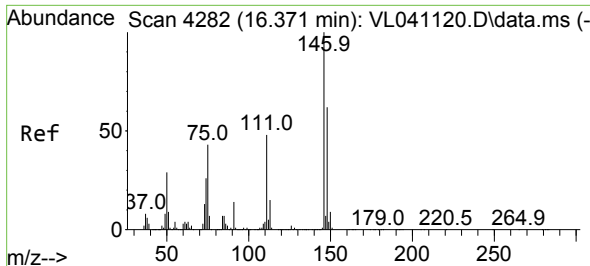
120 48.9 40.4 60.6

91 50.0 41.4 62.0

77 22.3 19.0 28.4



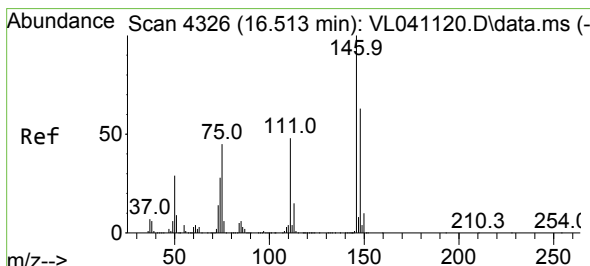
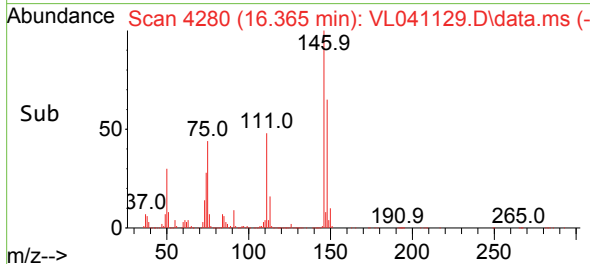
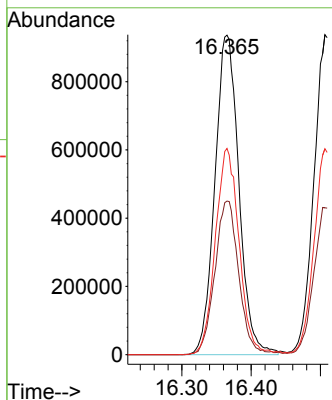
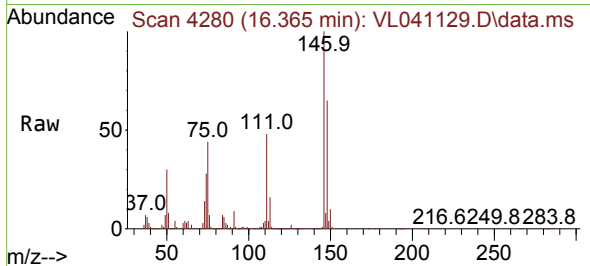




#75  
1,3-Dichlorobenzene  
Concen: 10.490 ppbv  
RT: 16.365 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

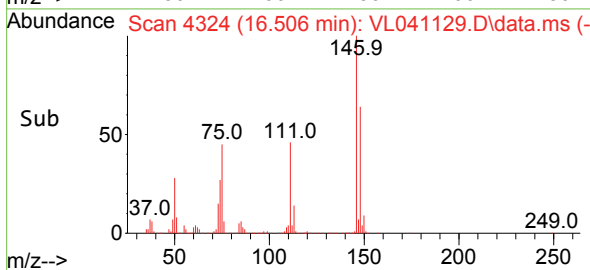
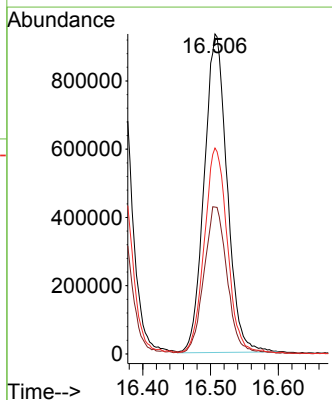
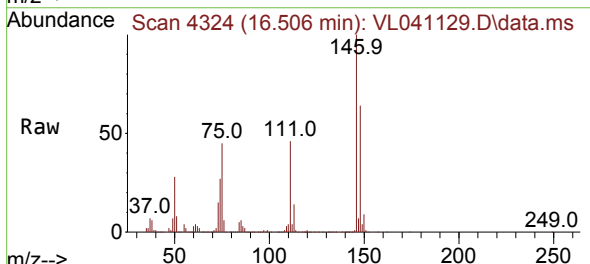
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

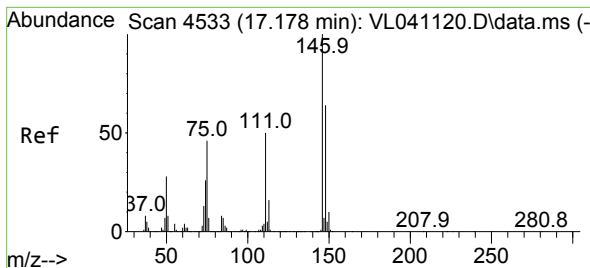
Tgt Ion:146 Resp: 2253301  
Ion Ratio Lower Upper  
146 100  
111 48.1 24.1 72.2  
148 64.1 32.6 97.7



#76  
1,4-Dichlorobenzene  
Concen: 10.464 ppbv  
RT: 16.506 min Scan# 4324  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

Tgt Ion:146 Resp: 2189410  
Ion Ratio Lower Upper  
146 100  
111 47.0 23.9 71.7  
148 65.7 32.9 98.6





#77

1,2-Dichlorobenzene

Concen: 10.537 ppbv

RT: 17.175 min Scan# 4533

Delta R.T. -0.003 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

Instrument :

MSVOA\_L

ClientSampleId :

VL0404ABS01

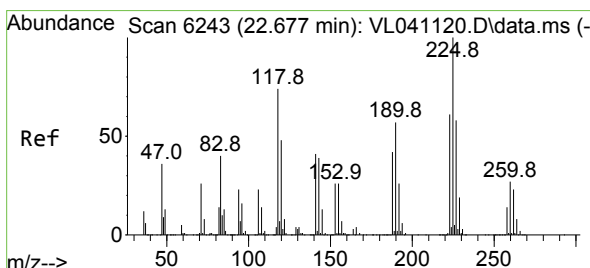
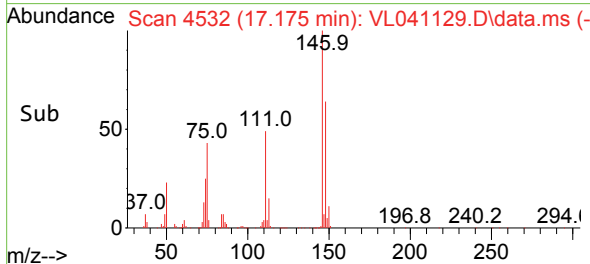
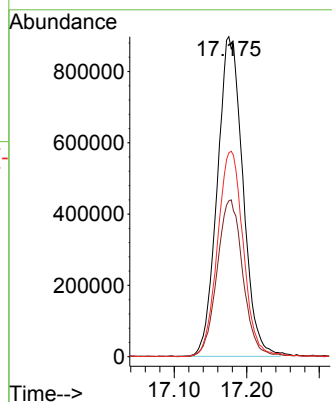
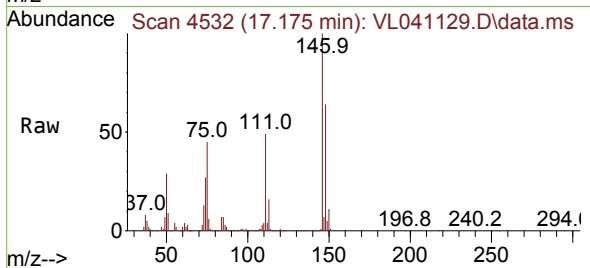
Tgt Ion:146 Resp: 2200226

Ion Ratio Lower Upper

146 100

111 49.5 25.2 75.6

148 64.8 32.4 97.0



#78

Hexachloro-1,3-Butadiene

Concen: 5.046 ppbv

RT: 22.667 min Scan# 6240

Delta R.T. -0.010 min

Lab File: VL041129.D

Acq: 4 Apr 2024 17:28

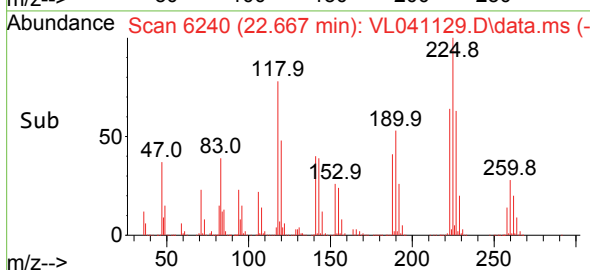
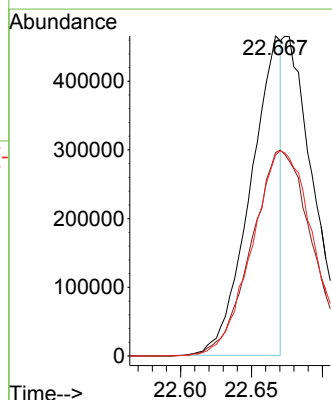
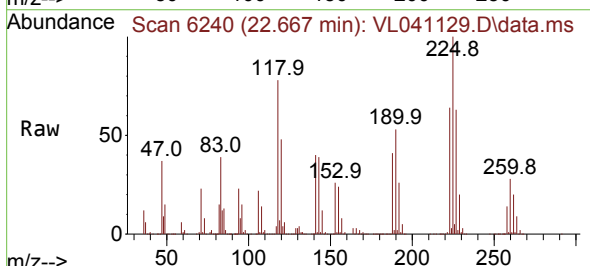
Tgt Ion:225 Resp: 699162

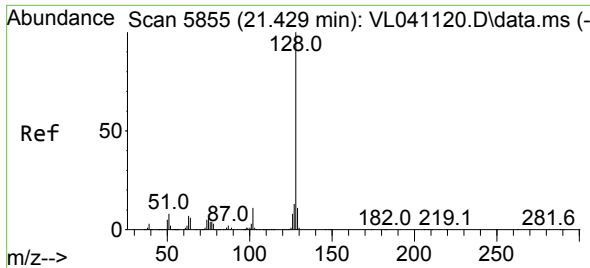
Ion Ratio Lower Upper

225 100

223 0.0 51.1 76.7#

227 0.0 51.1 76.7#

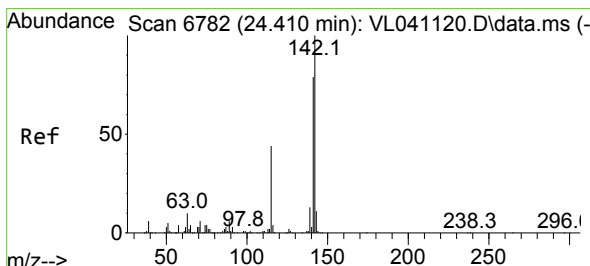
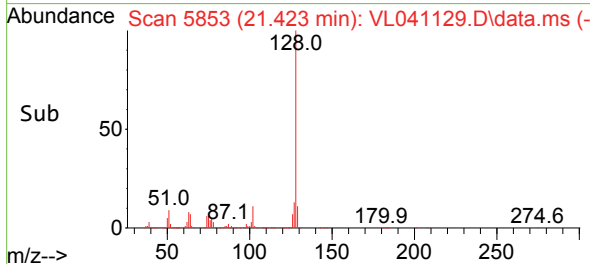
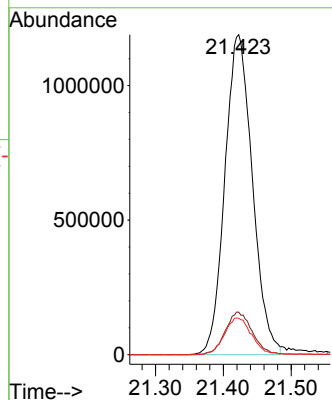
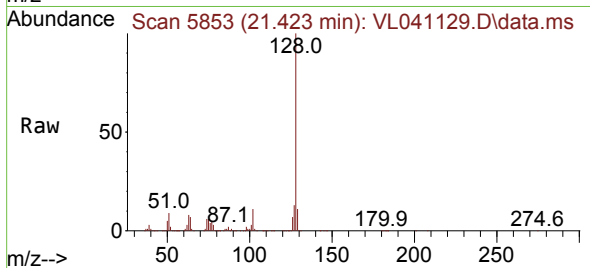




#79  
Naphthalene  
Concen: 14.384 ppbv  
RT: 21.423 min Scan# 5853  
Delta R.T. -0.006 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

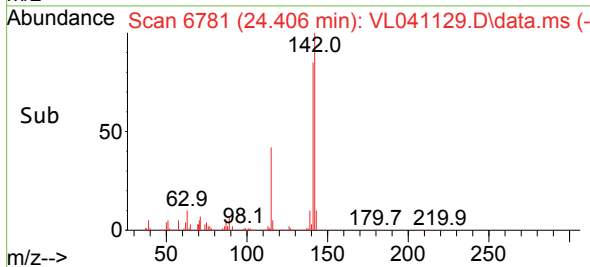
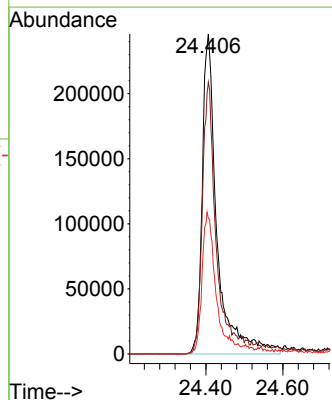
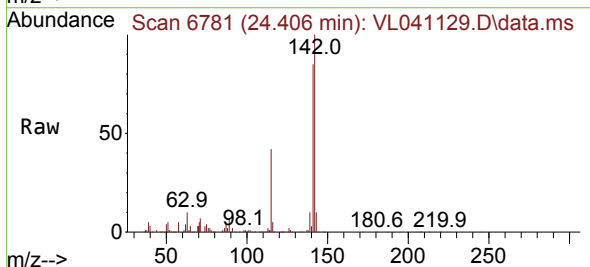
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0404ABS01

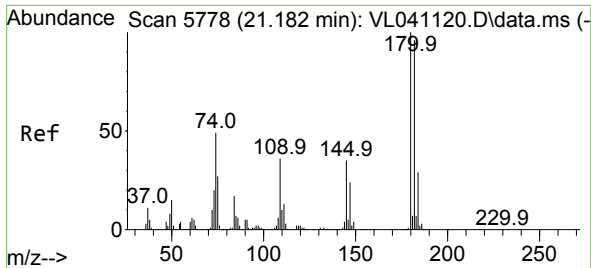
Tgt Ion:128 Resp: 3349641  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 15.8  
129 11.4 9.0 13.6



#80  
Naphthalene,2-methyl-  
Concen: 16.068 ppbv  
RT: 24.406 min Scan# 6781  
Delta R.T. -0.003 min  
Lab File: VL041129.D  
Acq: 4 Apr 2024 17:28

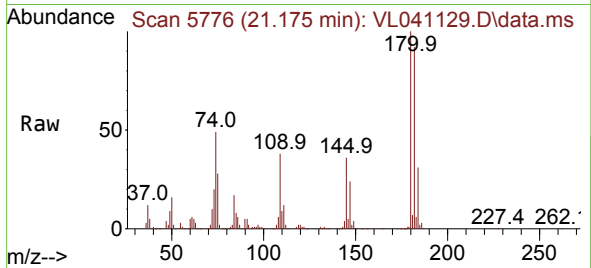
Tgt Ion:142 Resp: 657877  
Ion Ratio Lower Upper  
142 100  
141 83.1 61.3 91.9  
115 43.4 35.4 53.2





#81  
 1,2,4-Trichlorobenzene  
 Concen: 12.035 ppbv  
 RT: 21.175 min Scan# 51  
 Delta R.T. -0.006 min  
 Lab File: VL041129.D  
 Acq: 4 Apr 2024 17:28

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0404ABS01



Tgt Ion:180 Resp: 1614698  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.9  | 78.7  | 118.1 |
| 184 | 31.1  | 25.3  | 37.9  |

