

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL102323\  
 Data File : VL040776.D  
 Acq On : 23 Oct 2023 12:50  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Oct 24 05:33:39 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   | 5.182  | 49   | 1004603  | 10.000 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 6.642  | 114  | 2790361  | 10.000 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 11.452 | 117  | 3344290  | 10.000 | ppbv  | #-0.02   |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.757 | 95    | 2022497  | 8.219    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.200% |

| Target Compounds              |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 1629269 | 9.209  | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 1486202 | 10.067 | ppbv   | 99     |
| 4) Chloromethane              | 2.809 | 50  | 580059  | 9.950  | ppbv   | 100    |
| 5) Vinyl Chloride             | 2.915 | 62  | 583101  | 9.680  | ppbv   | 98     |
| 6) Bromomethane               | 3.111 | 94  | 258939  | 10.391 | ppbv   | 99     |
| 7) Chloroethane               | 3.189 | 64  | 199762  | 10.187 | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 2.851 | 85  | 1369560 | 10.212 | ppbv   | 97     |
| 9) Propene                    | 2.687 | 41  | 551184  | 10.051 | ppbv   | 98     |
| 10) Heptane                   | 7.565 | 43  | 1357416 | 9.854  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 3.555 | 101 | 1416774 | 10.376 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 4.057 | 101 | 967000  | 9.930  | ppbv   | 99     |
| 13) Ethanol                   | 3.237 | 45  | 113447  | 9.165  | ppbv   | 94     |
| 14) Bromoethene               | 3.359 | 108 | 418827  | 10.042 | ppbv   | 95     |
| 15) Acetone                   | 3.462 | 43  | 1014532 | 9.769  | ppbv   | 97     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 550190  | 10.098 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 3.870 | 59  | 1098800 | 10.318 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.870 | 96  | 447458  | 10.252 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.568 | 45  | 736355  | 11.014 | ppbv # | 39     |
| 20) Methylene Chloride        | 3.925 | 84  | 379781  | 8.779  | ppbv   | 97     |
| 21) Allyl Chloride            | 3.986 | 41  | 706789  | 10.319 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.433 | 96  | 474998  | 10.225 | ppbv   | 98     |
| 23) Vinyl Acetate             | 4.616 | 43  | 1252789 | 9.465  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 4.552 | 63  | 964950  | 9.666  | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.195 | 43  | 2207870 | 9.703  | ppbv   | 100    |
| 26) Hexane                    | 5.201 | 57  | 978883  | 9.412  | ppbv   | 99     |
| 27) Carbon Disulfide          | 4.115 | 76  | 1188783 | 10.360 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 4.578 | 73  | 740543  | 9.157  | ppbv   | 100    |
| 29) Chloroform                | 5.263 | 83  | 1544761 | 10.265 | ppbv   | 100    |
| 30) Cyclohexane               | 6.584 | 84  | 881722  | 9.963  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 5.066 | 61  | 1009085 | 10.529 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 5.989 | 97  | 1585065 | 9.897  | ppbv   | 100    |
| 34) 2-Butanone                | 4.774 | 43  | 1090660 | 8.635  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 6.481 | 117 | 1669351 | 10.659 | ppbv   | 96     |
| 36) Benzene                   | 6.359 | 78  | 2175608 | 10.137 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.793 | 62  | 1193388 | 10.857 | ppbv   | 99     |
| 38) Trichloroethene           | 7.279 | 130 | 848792  | 8.936  | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 7.060 | 63  | 842334  | 10.046 | ppbv   | 98     |
| 40) 1,4-Dioxane               | 7.272 | 88  | 359454  | 11.328 | ppbv # | 94     |
| 41) Tetrahydrofuran           | 5.545 | 42  | 867593  | 9.919  | ppbv   | 97     |
| 42) Bromodichloromethane      | 7.237 | 83  | 1750928 | 10.634 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 7.462 | 69  | 893544  | 10.400 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 7.314 | 57  | 3534010 | 9.737  | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 8.696 | 75  | 775167  | 11.315 | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL102323\  
 Data File : VL040776.D  
 Acq On : 23 Oct 2023 12:50  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

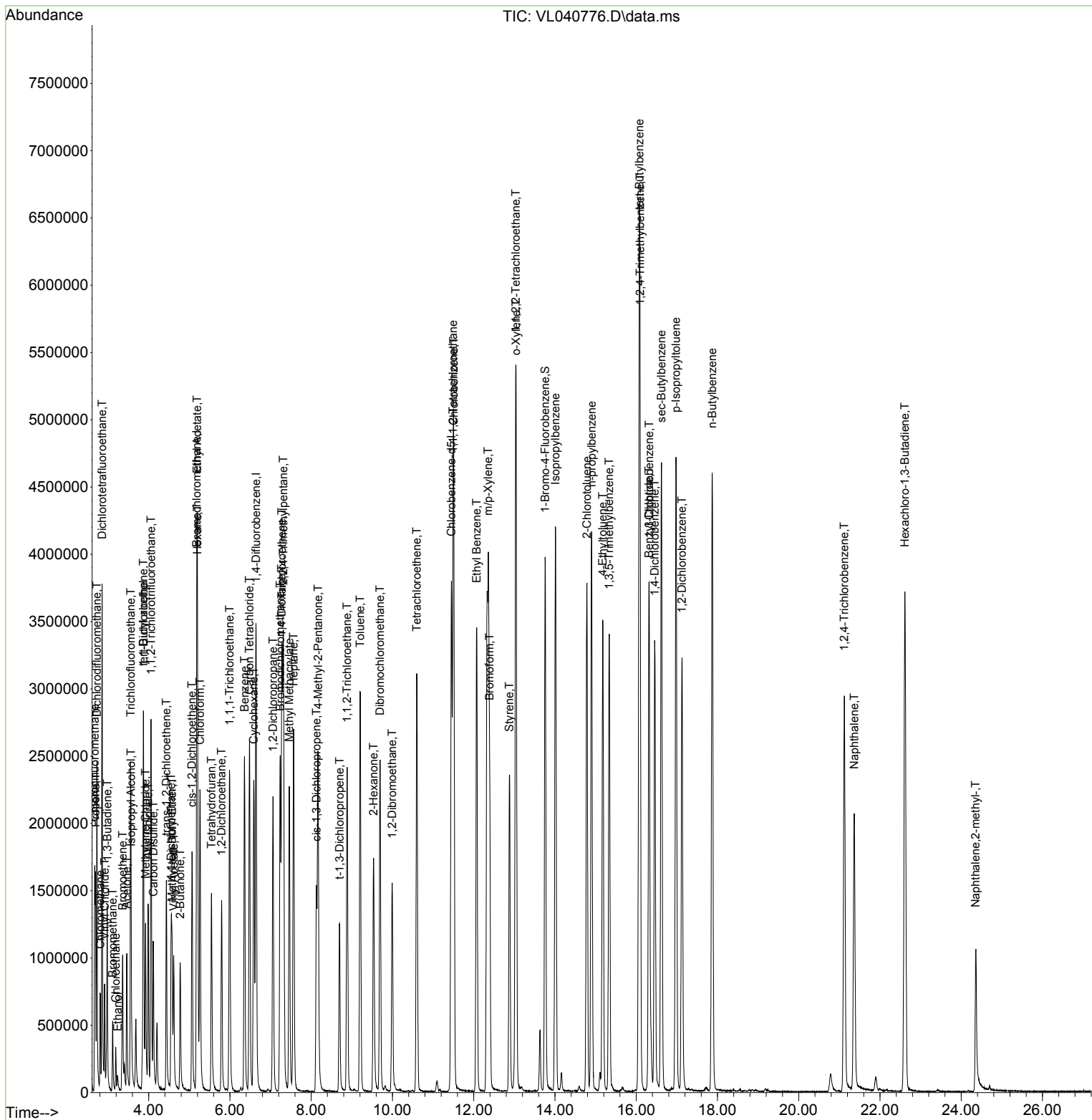
Instrument :  
 MSVOA\_L  
 ClientSampleId :

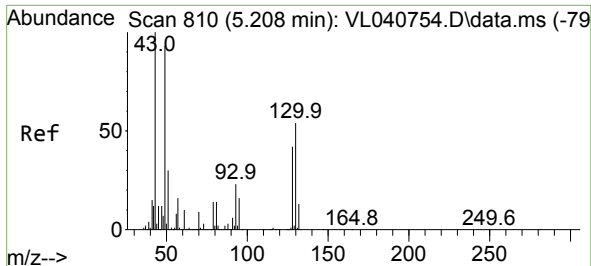
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Oct 12 00:21:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.127  | 75   | 914484   | 10.926 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 8.883  | 97   | 902390   | 10.245 | ppbv   | 98       |
| 48) Dibromochloromethane      | 9.696  | 129  | 1608151  | 10.895 | ppbv   | 99       |
| 49) Bromoform                 | 12.391 | 173  | 1294684  | 10.790 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.169  | 43   | 2181041  | 10.094 | ppbv   | 100      |
| 51) 2-Hexanone                | 9.532  | 43   | 1651746  | 10.044 | ppbv # | 99       |
| 52) Tetrachloroethene         | 10.597 | 164  | 814440   | 9.342  | ppbv   | 96       |
| 53) Toluene                   | 9.204  | 91   | 2530007  | 9.905  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 9.992  | 107  | 1329244  | 10.765 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 11.491 | 131  | 1131033  | 8.287  | ppbv   | 98       |
| 57) Chlorobenzene             | 11.510 | 112  | 1967868  | 8.213  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.073 | 91   | 3392339  | 8.056  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.355 | 91   | 2427046  | 7.003  | ppbv # | 10       |
| 60) o-Xylene                  | 13.044 | 91   | 2625658  | 7.951  | ppbv   | 99       |
| 61) Styrene                   | 12.880 | 104  | 1545314  | 8.446  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.015 | 105  | 4045350  | 7.963  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.034 | 83   | 1851204  | 7.478  | ppbv   | 100      |
| 64) n-propylbenzene           | 14.902 | 120  | 1115455  | 8.174  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.076 | 119  | 3569699  | 7.791  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.310 | 91   | 400328   | 8.672  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 16.619 | 105  | 5026091  | 8.012  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.979 | 119  | 4189593  | 7.970  | ppbv   | 100      |
| 70) n-Butylbenzene            | 17.870 | 91   | 4195898  | 8.129  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 14.786 | 91   | 3080130  | 8.072  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.175 | 105  | 3261655  | 8.435  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.336 | 105  | 2810593  | 8.255  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.095 | 105  | 2982040  | 8.017  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 16.317 | 146  | 1880615  | 8.129  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.455 | 146  | 1854064  | 8.093  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.127 | 146  | 1821527  | 8.025  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 22.612 | 225  | 1134200  | 6.983  | ppbv   | 99       |
| 79) Naphthalene               | 21.368 | 128  | 2836716  | 9.382  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 24.355 | 142  | 851317   | 10.033 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.124 | 180  | 1385614  | 8.441  | ppbv   | 99       |

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

Quant Time: Oct 24 05:33:39 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

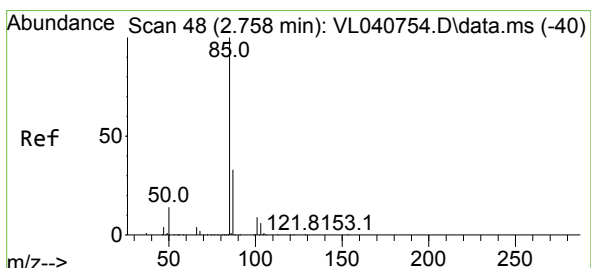
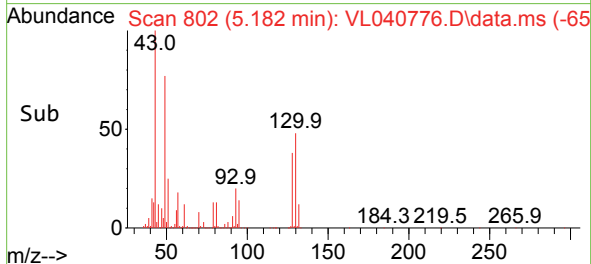
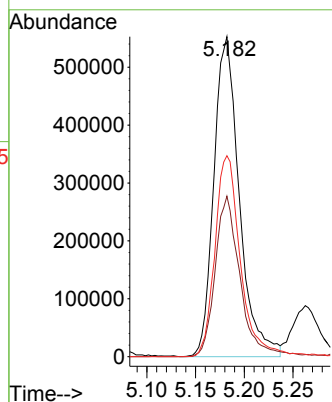
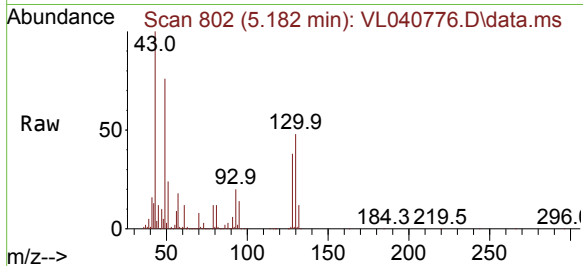




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.182 min Scan# 80  
 Delta R.T. -0.026 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

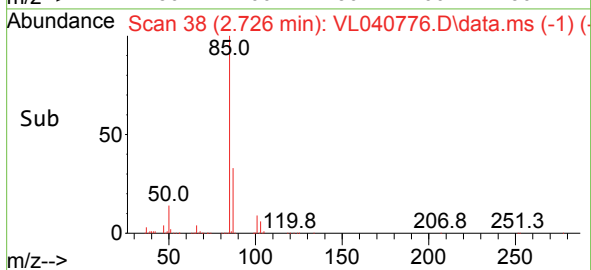
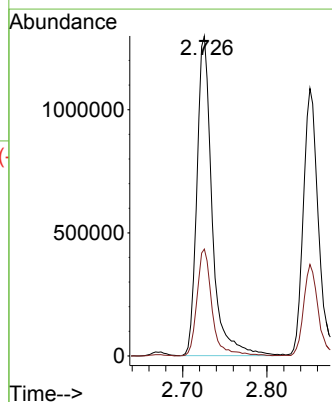
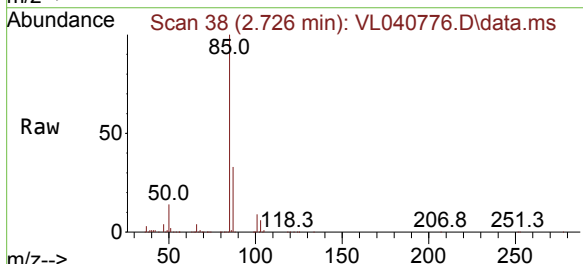
Instrument :  
 MSVOA\_L  
 ClientSampleId :

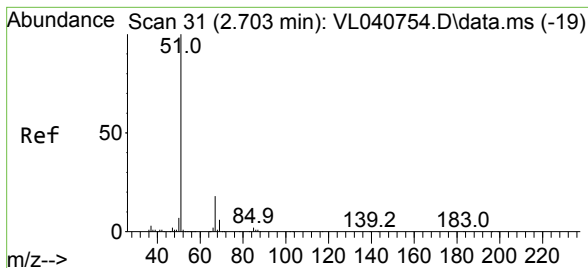
Tgt Ion: 49 Resp: 1004603  
 Ion Ratio Lower Upper  
 49 100  
 128 49.2 23.9 71.7  
 130 63.7 30.7 92.1



#2  
 Dichlorodifluoromethane  
 Concen: 9.209 ppbv  
 RT: 2.726 min Scan# 38  
 Delta R.T. -0.032 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Tgt Ion: 85 Resp: 1629269  
 Ion Ratio Lower Upper  
 85 100  
 87 33.4 26.0 39.0

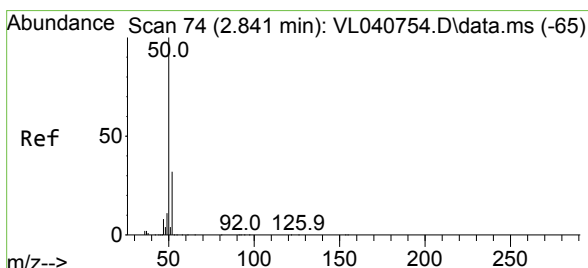
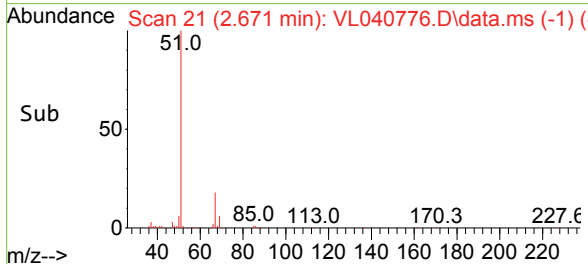
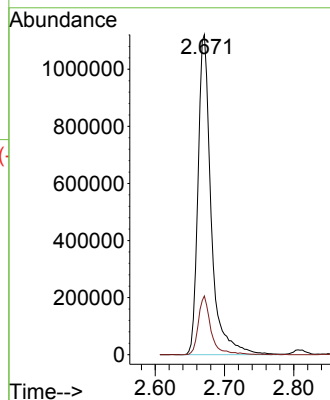
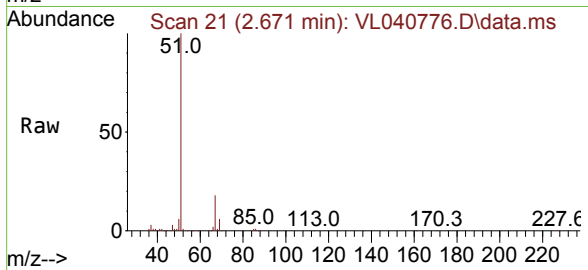




#3  
Chlorodifluoromethane  
Concen: 10.067 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. -0.032 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

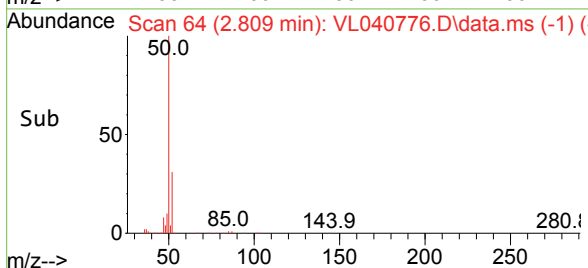
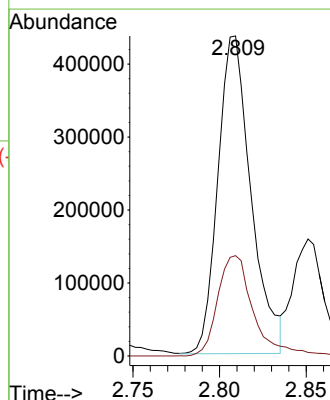
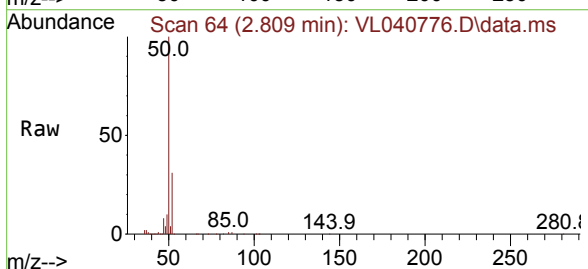
Instrument :  
MSVOA\_L  
ClientSampleId :

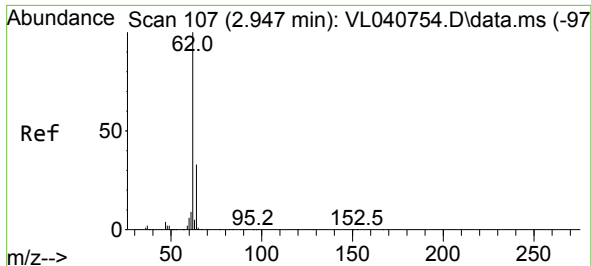
Tgt Ion: 51 Resp: 1486202  
Ion Ratio Lower Upper  
51 100  
67 17.7 13.8 20.6



#4  
Chloromethane  
Concen: 9.950 ppbv  
RT: 2.809 min Scan# 64  
Delta R.T. -0.032 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 50 Resp: 580059  
Ion Ratio Lower Upper  
50 100  
52 31.6 25.3 37.9

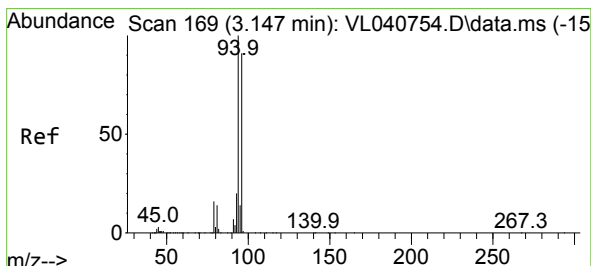
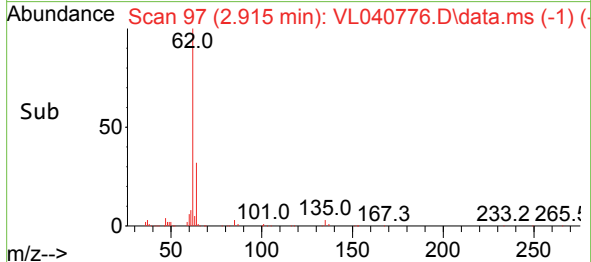
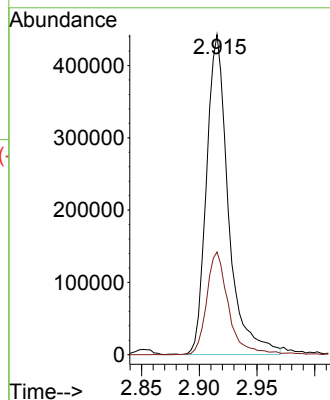
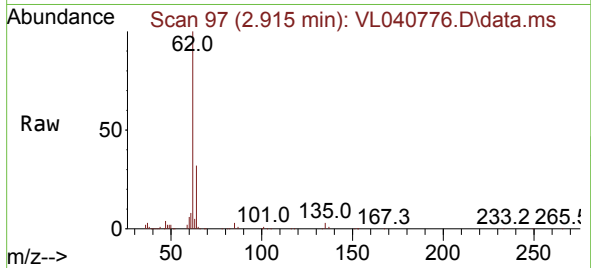




#5  
 Vinyl Chloride  
 Concen: 9.680 ppbv  
 RT: 2.915 min Scan# 91  
 Delta R.T. -0.032 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

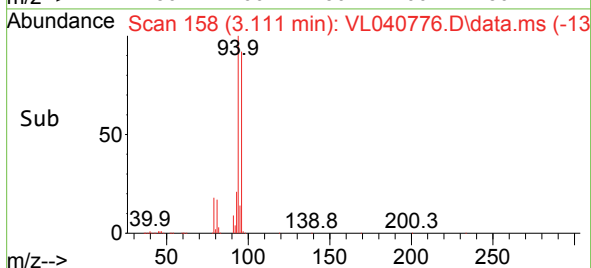
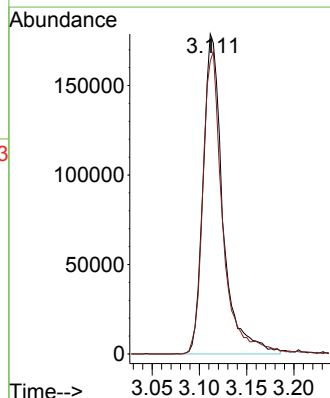
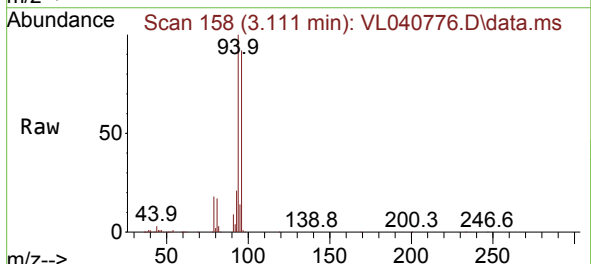
Instrument :  
 MSVOA\_L  
 ClientSampleId :

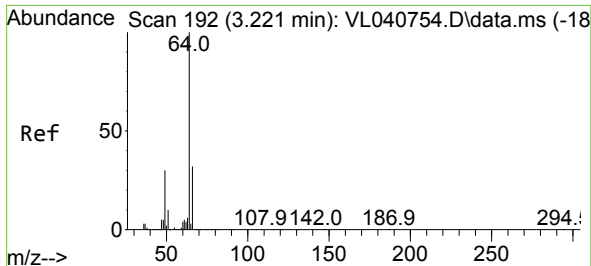
Tgt Ion: 62 Resp: 583101  
 Ion Ratio Lower Upper  
 62 100  
 64 32.1 26.6 39.8



#6  
 Bromomethane  
 Concen: 10.391 ppbv  
 RT: 3.111 min Scan# 158  
 Delta R.T. -0.035 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Tgt Ion: 94 Resp: 258939  
 Ion Ratio Lower Upper  
 94 100  
 96 91.5 72.6 109.0

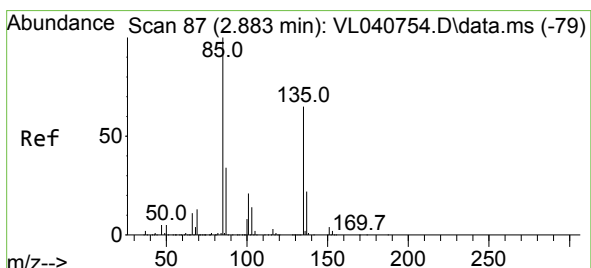
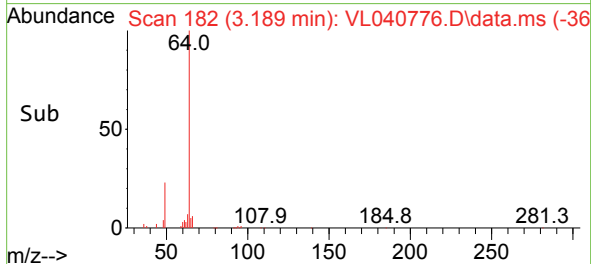
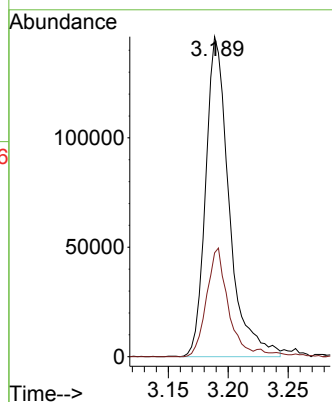
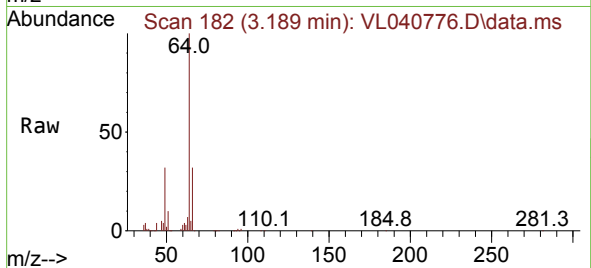




#7  
Chloroethane  
Concen: 10.187 ppbv  
RT: 3.189 min Scan# 11  
Delta R.T. -0.032 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

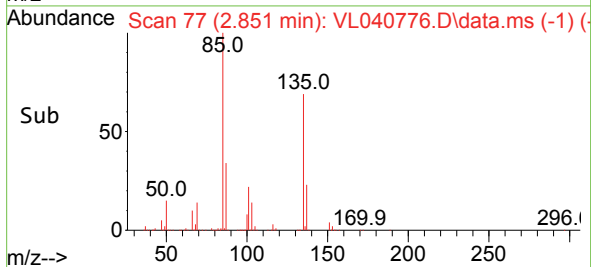
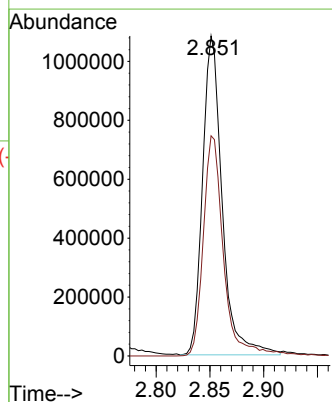
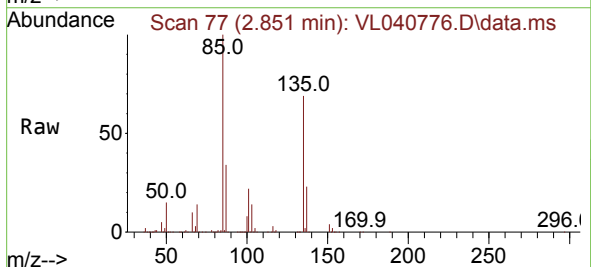
Instrument :  
MSVOA\_L  
ClientSampleId :

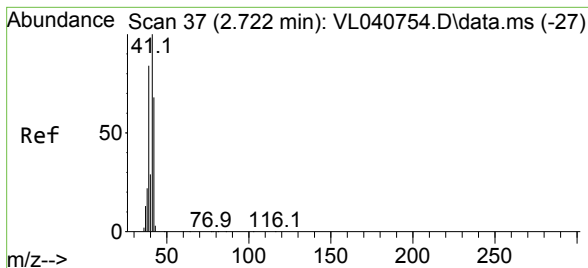
Tgt Ion: 64 Resp: 199762  
Ion Ratio Lower Upper  
64 100  
66 32.4 25.4 38.2



#8  
Dichlorotetrafluoroethane  
Concen: 10.212 ppbv  
RT: 2.851 min Scan# 77  
Delta R.T. -0.032 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 85 Resp: 1369560  
Ion Ratio Lower Upper  
85 100  
135 71.8 55.4 83.2

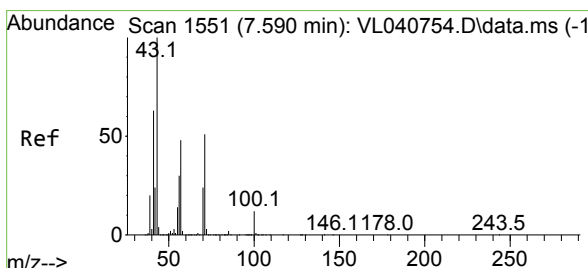
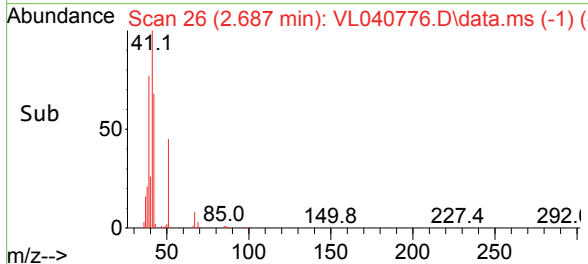
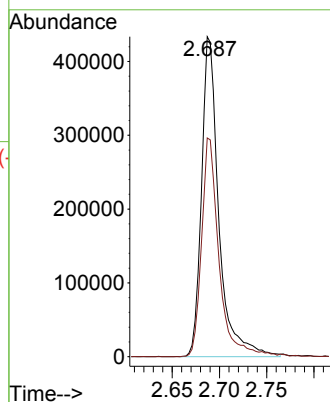
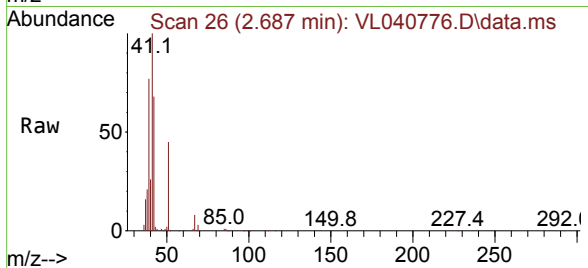




#9  
Propene  
Concen: 10.051 ppbv  
RT: 2.687 min Scan# 20  
Delta R.T. -0.035 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

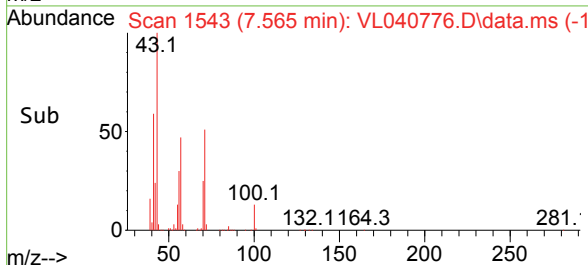
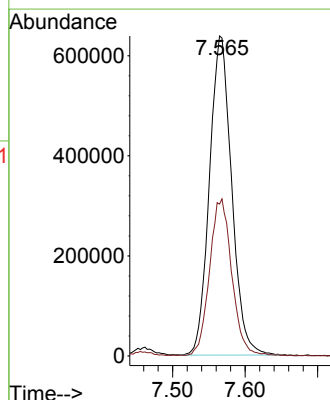
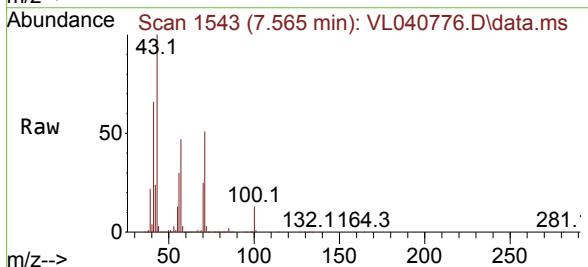
Instrument :  
MSVOA\_L  
ClientSampleId :

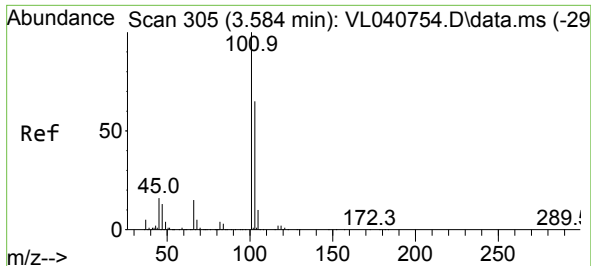
Tgt Ion: 41 Resp: 551184  
Ion Ratio Lower Upper  
41 100  
42 69.5 57.1 85.7



#10  
Heptane  
Concen: 9.854 ppbv  
RT: 7.565 min Scan# 1543  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 43 Resp: 1357416  
Ion Ratio Lower Upper  
43 100  
57 49.6 40.0 60.0

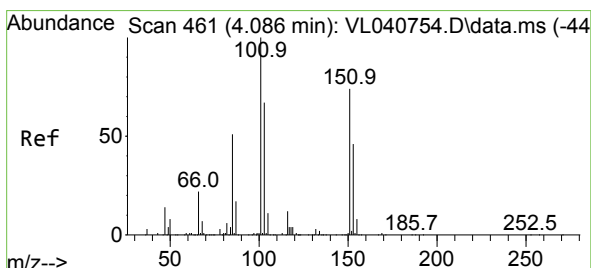
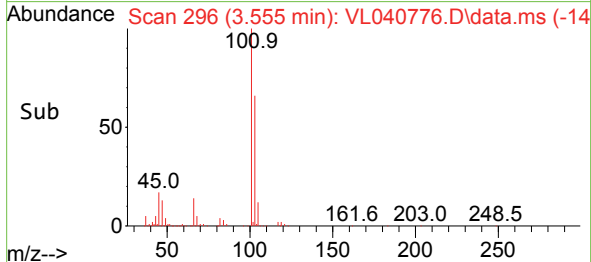
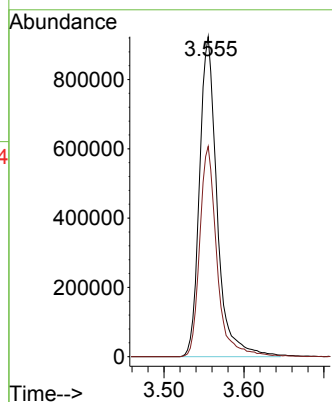
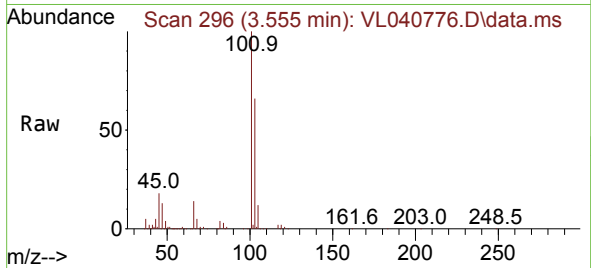




#11  
Trichlorofluoromethane  
Concen: 10.376 ppbv  
RT: 3.555 min Scan# 296  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

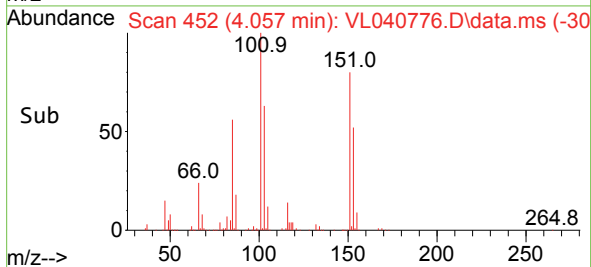
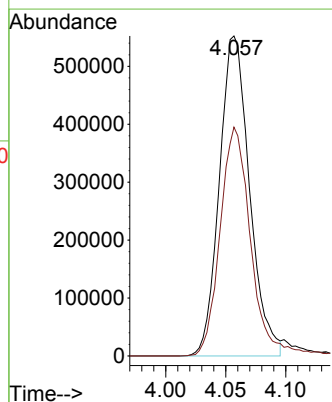
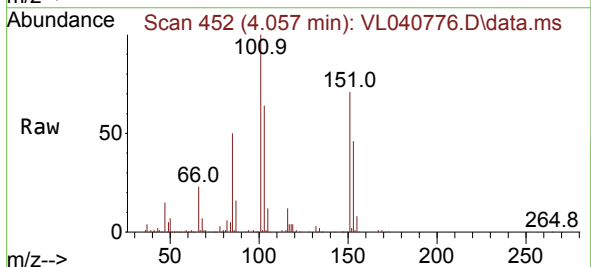
Instrument :  
MSVOA\_L  
ClientSampleId :

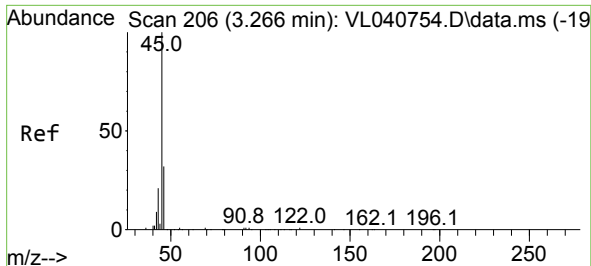
Tgt Ion:101 Resp: 1416774  
Ion Ratio Lower Upper  
101 100  
103 65.7 52.2 78.2



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.930 ppbv  
RT: 4.057 min Scan# 452  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion:101 Resp: 967000  
Ion Ratio Lower Upper  
101 100  
151 73.3 58.1 87.1

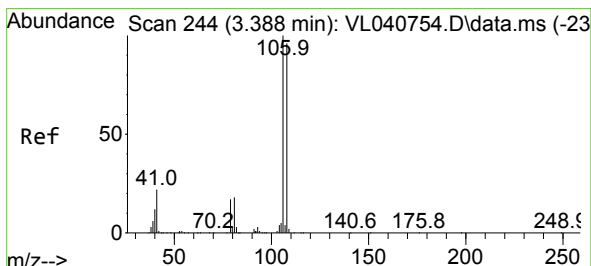
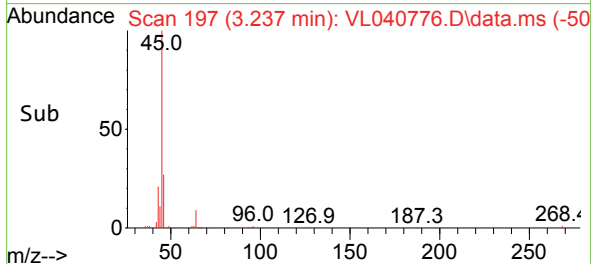
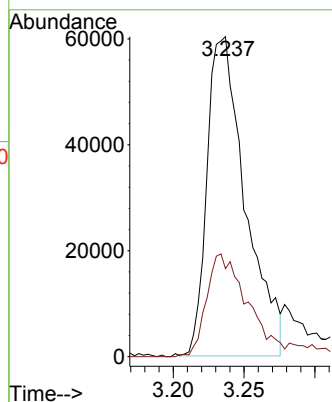
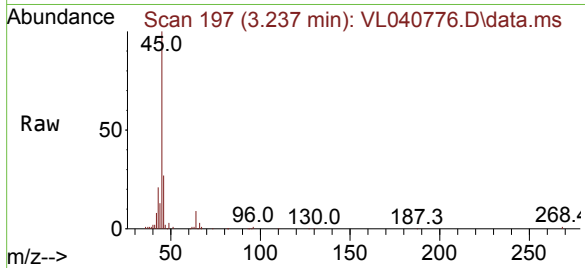




#13  
Ethanol  
Concen: 9.165 ppbv  
RT: 3.237 min Scan# 197  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

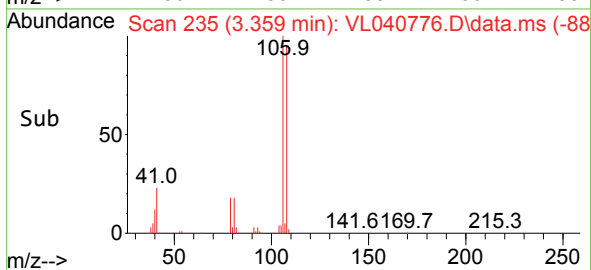
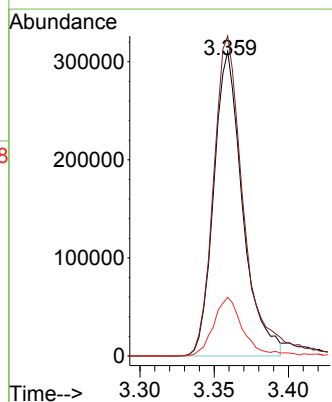
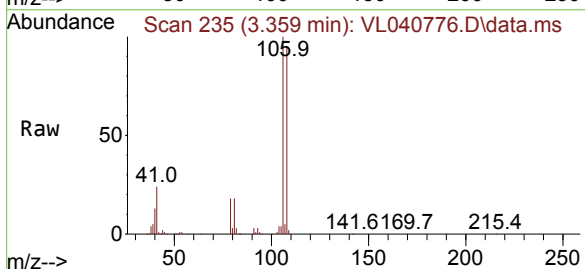
Instrument :  
MSVOA\_L  
ClientSampleId :

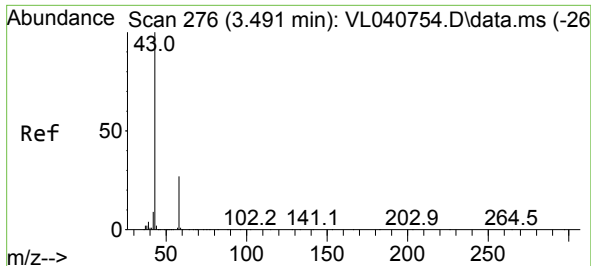
Tgt Ion: 45 Resp: 113447  
Ion Ratio Lower Upper  
45 100  
46 39.7 14.6 58.2



#14  
Bromoethene  
Concen: 10.042 ppbv  
RT: 3.359 min Scan# 235  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 108 Resp: 418827  
Ion Ratio Lower Upper  
108 100  
106 112.4 85.2 127.8  
79 20.4 15.7 23.5

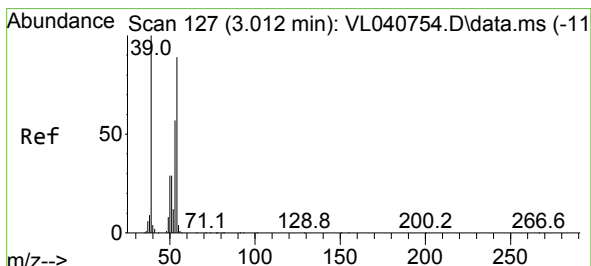
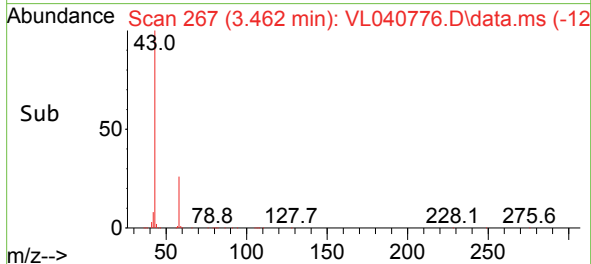
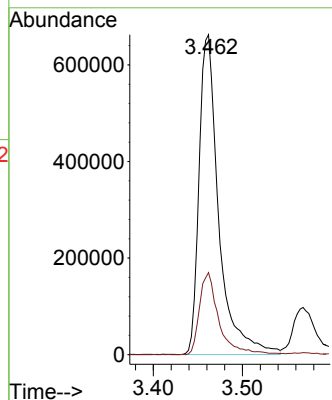
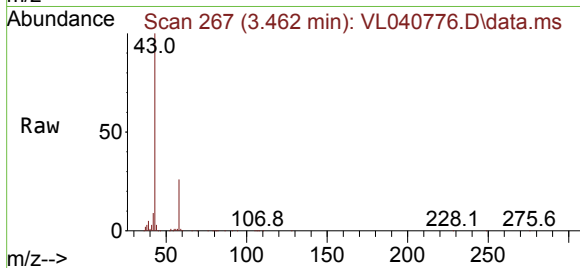




#15  
Acetone  
Concen: 9.769 ppbv  
RT: 3.462 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

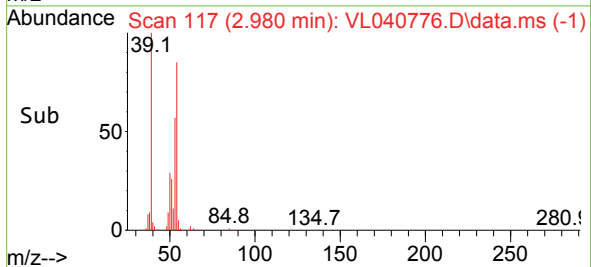
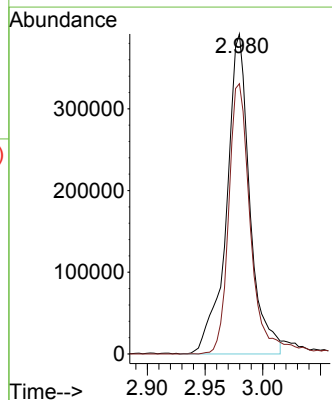
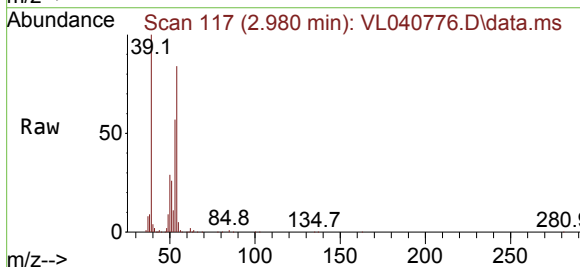
Instrument :  
MSVOA\_L  
ClientSampleId :

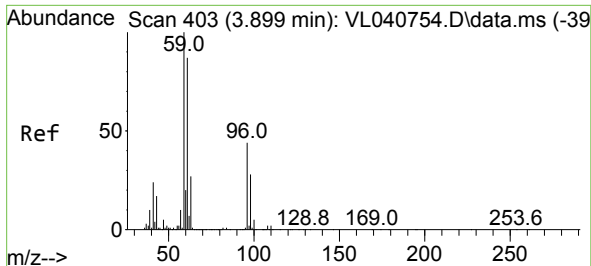
Tgt Ion: 43 Resp: 1014532  
Ion Ratio Lower Upper  
43 100  
58 25.7 21.6 32.4



#16  
1,3-Butadiene  
Concen: 10.098 ppbv  
RT: 2.980 min Scan# 117  
Delta R.T. -0.032 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 39 Resp: 550190  
Ion Ratio Lower Upper  
39 100  
54 80.9 63.0 94.6





#17

tert-Butyl alcohol

Concen: 10.318 ppbv

RT: 3.870 min Scan# 394

Delta R.T. -0.029 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

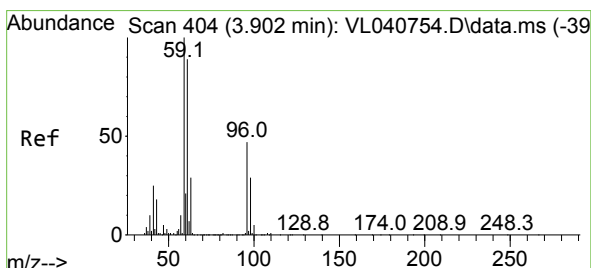
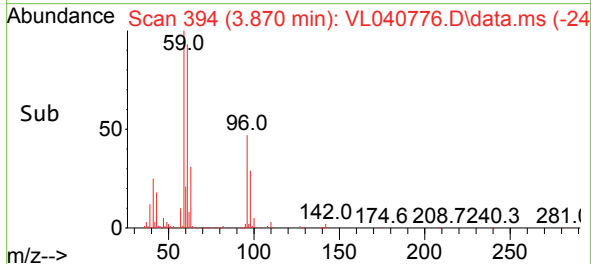
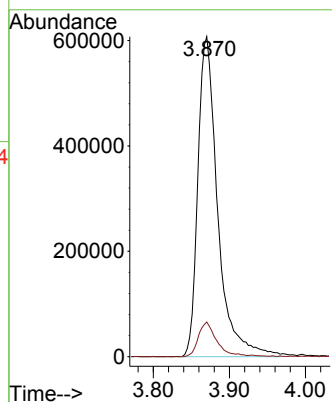
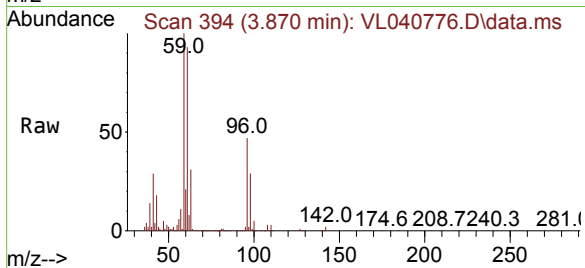
ClientSampleId :

Tgt Ion: 59 Resp: 1098800

Ion Ratio Lower Upper

59 100

57 10.4 8.6 13.0



#18

1,1-Dichloroethene

Concen: 10.252 ppbv

RT: 3.870 min Scan# 394

Delta R.T. -0.032 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

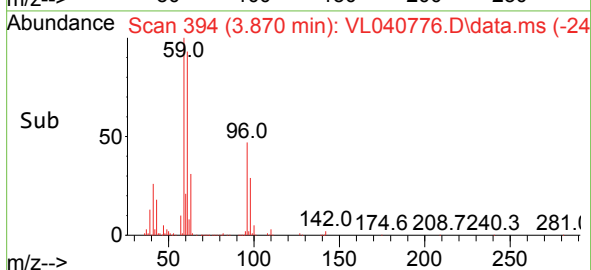
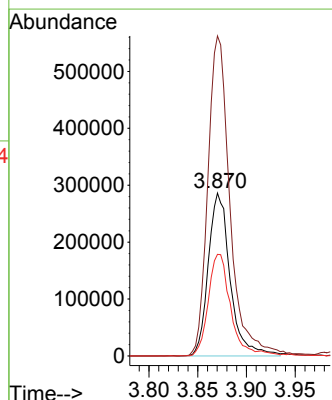
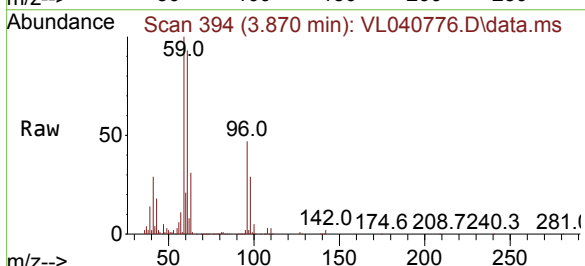
Tgt Ion: 96 Resp: 447458

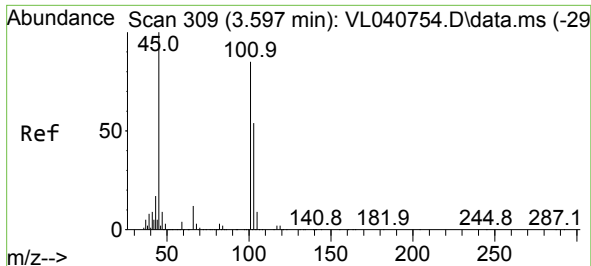
Ion Ratio Lower Upper

96 100

61 196.4 152.5 228.7

98 62.2 49.6 74.4

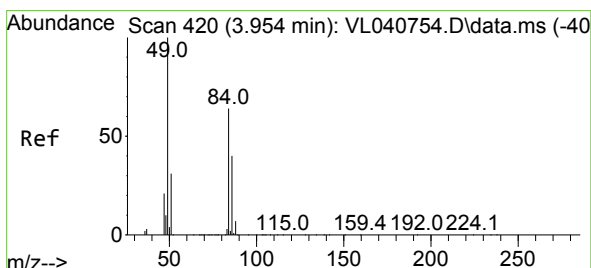
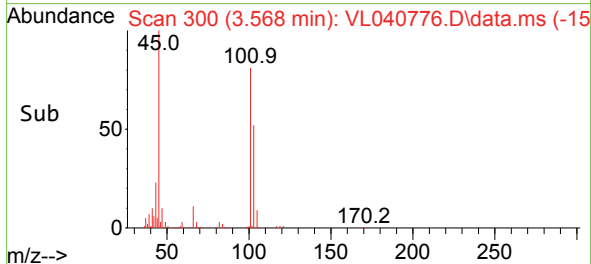
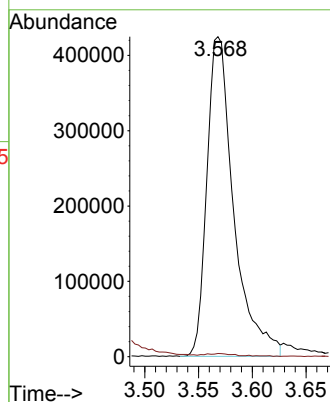
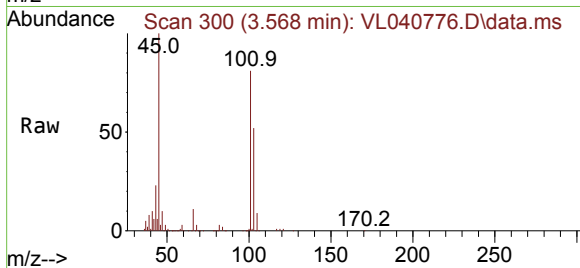




#19  
Isopropyl Alcohol  
Concen: 11.014 ppbv  
RT: 3.568 min Scan# 309  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

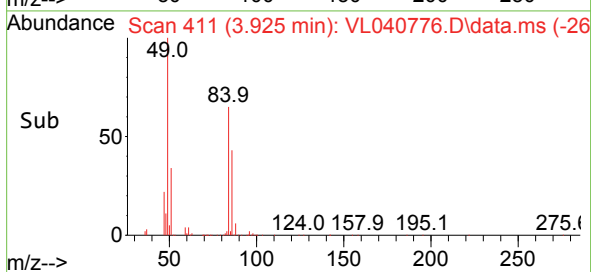
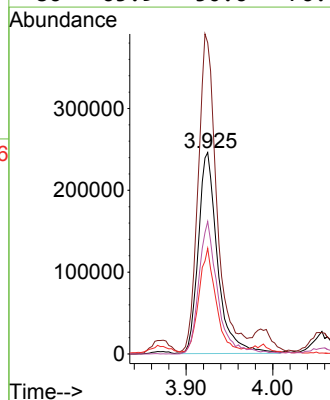
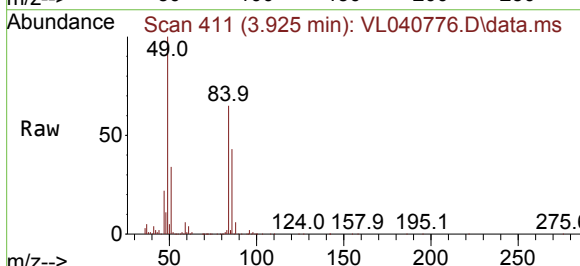
Instrument :  
MSVOA\_L  
ClientSampleId :

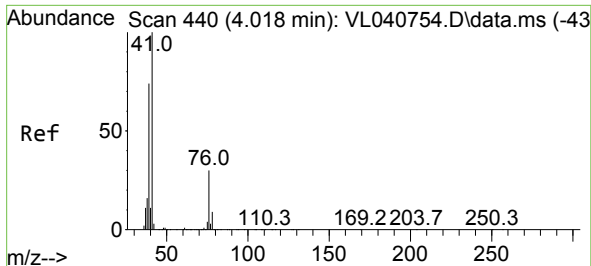
Tgt Ion: 45 Resp: 736355  
Ion Ratio Lower Upper  
45 100  
58 1.2 30.3 45.5#



#20  
Methylene Chloride  
Concen: 8.779 ppbv  
RT: 3.925 min Scan# 411  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 84 Resp: 379781  
Ion Ratio Lower Upper  
84 100  
49 153.9 125.6 188.4  
51 51.6 38.9 58.3  
86 65.9 50.6 76.0

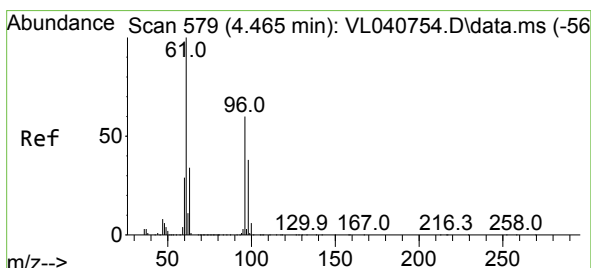
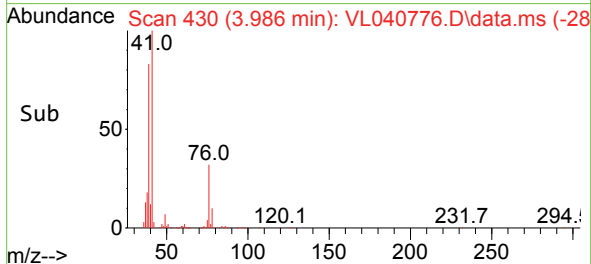
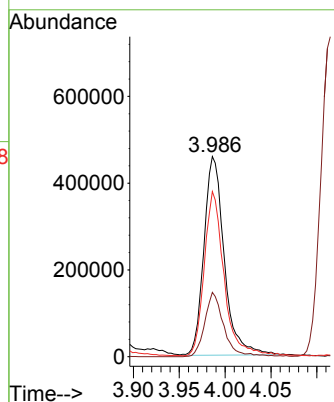
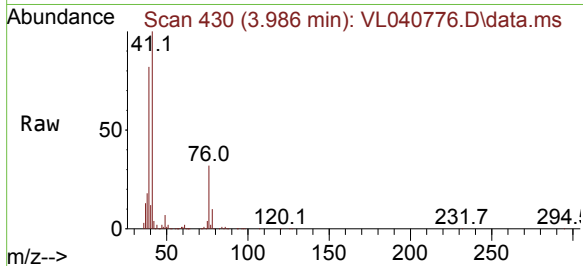




#21  
 Allyl Chloride  
 Concen: 10.319 ppbv  
 RT: 3.986 min Scan# 41  
 Delta R.T. -0.032 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

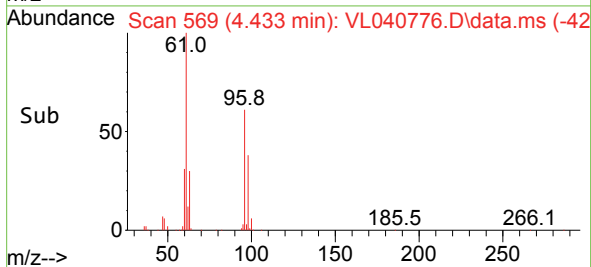
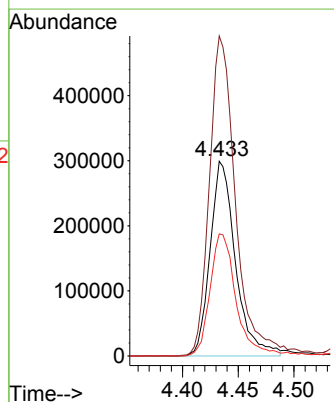
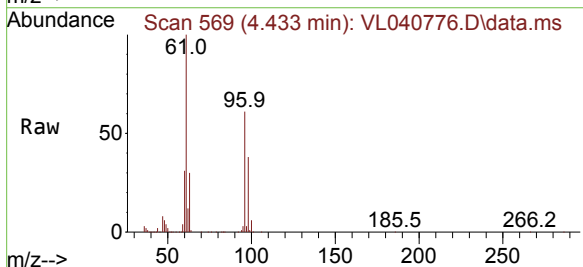
Instrument :  
 MSVOA\_L  
 ClientSampleId :

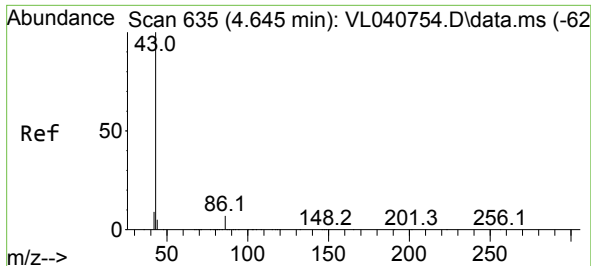
Tgt Ion: 41 Resp: 706789  
 Ion Ratio Lower Upper  
 41 100  
 76 30.5 24.1 36.1  
 39 81.5 63.8 95.6



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.225 ppbv  
 RT: 4.433 min Scan# 569  
 Delta R.T. -0.032 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Tgt Ion: 96 Resp: 474998  
 Ion Ratio Lower Upper  
 96 100  
 61 164.2 134.0 201.0  
 98 62.7 51.0 76.4



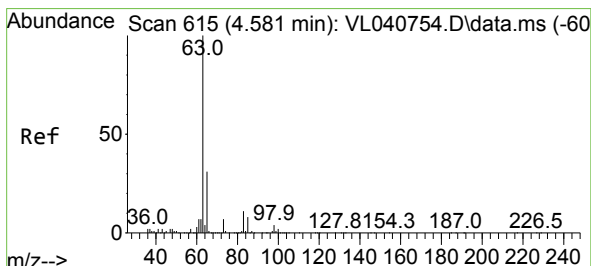
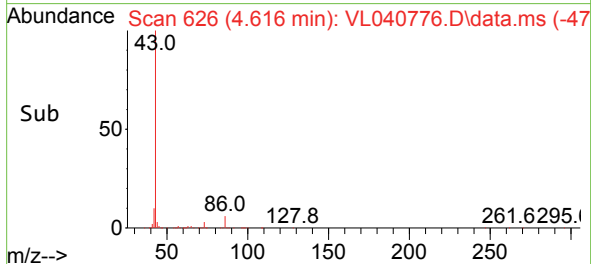
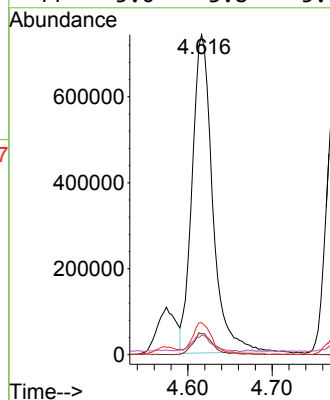
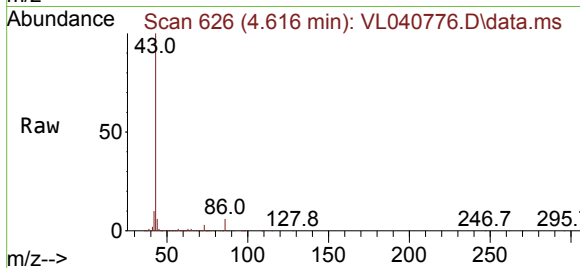


#23  
 Vinyl Acetate  
 Concen: 9.465 ppbv  
 RT: 4.616 min Scan# 61  
 Delta R.T. -0.029 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tgt Ion: 43 Resp: 1252789

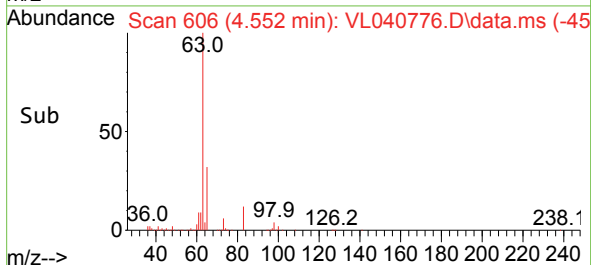
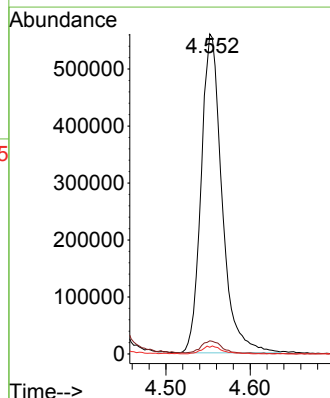
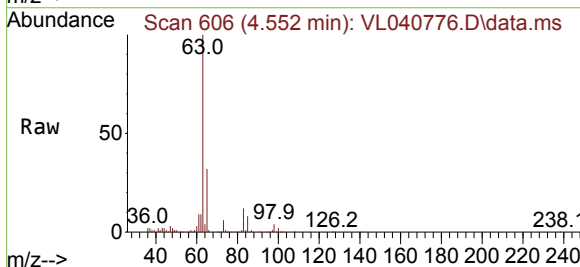
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.4   | 4.9   | 7.3   |
| 42  | 10.0  | 7.8   | 11.6  |
| 44  | 5.0   | 3.8   | 5.6   |

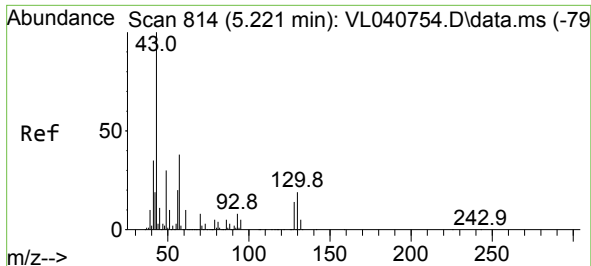


#24  
 1,1-Dichloroethane  
 Concen: 9.666 ppbv  
 RT: 4.552 min Scan# 606  
 Delta R.T. -0.029 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Tgt Ion: 63 Resp: 964950

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.0   | 2.0   | 5.8   |
| 100 | 2.0   | 1.3   | 3.8   |



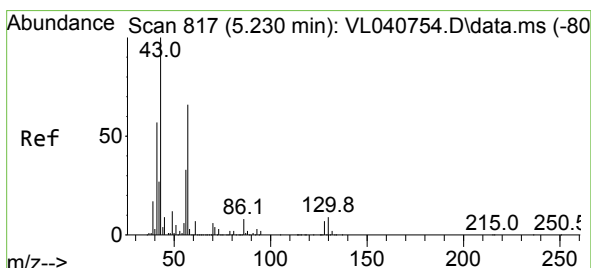
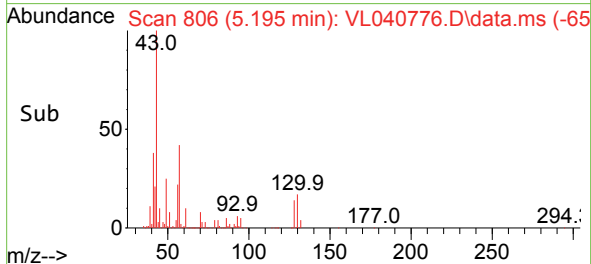
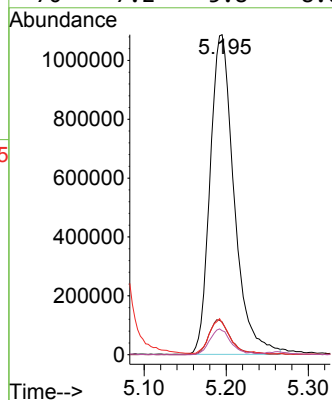
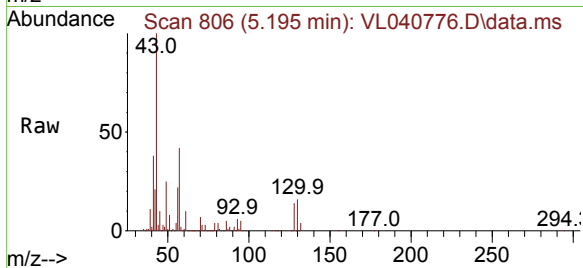


#25  
Ethyl Acetate  
Concen: 9.703 ppbv  
RT: 5.195 min Scan# 806  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 43 Resp: 2207870

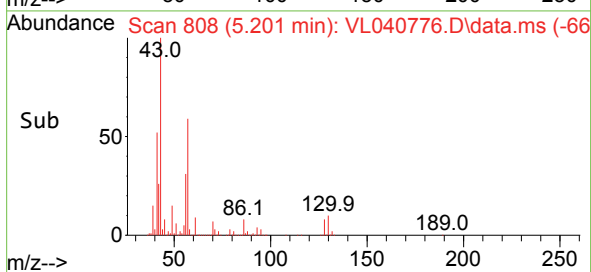
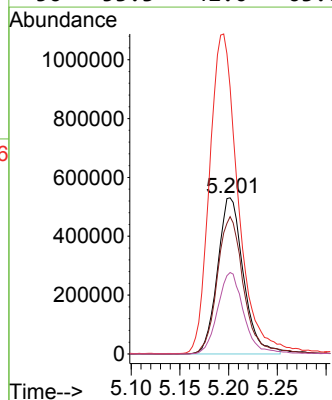
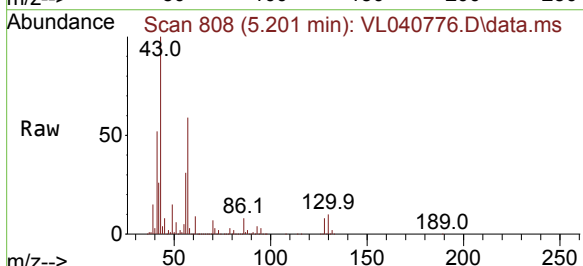
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.3  | 8.2   | 12.4  |
| 61  | 10.0  | 8.2   | 12.2  |
| 70  | 7.2   | 5.8   | 8.6   |

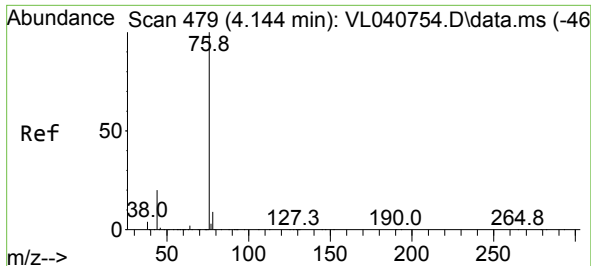


#26  
Hexane  
Concen: 9.412 ppbv  
RT: 5.201 min Scan# 808  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 57 Resp: 978883

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 91.1  | 71.4  | 107.2 |
| 43  | 229.1 | 182.3 | 273.5 |
| 56  | 53.3  | 42.0  | 63.0  |

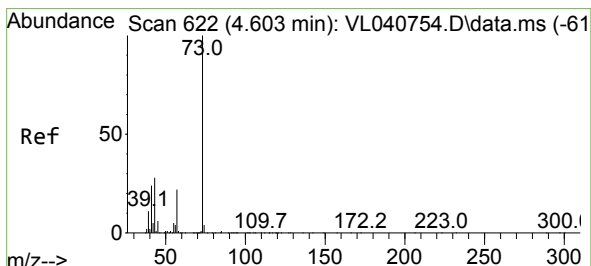
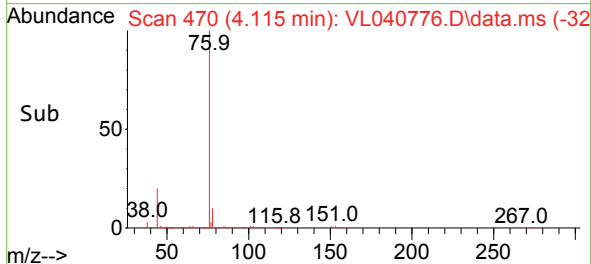
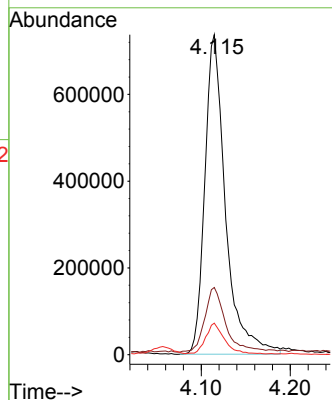
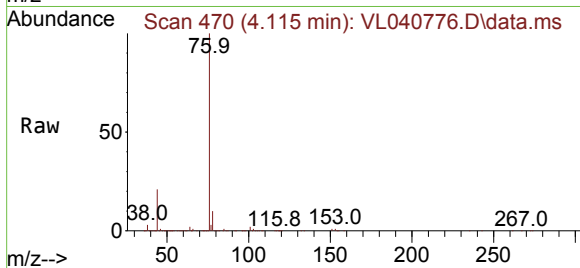




#27  
Carbon Disulfide  
Concen: 10.360 ppbv  
RT: 4.115 min Scan# 41  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

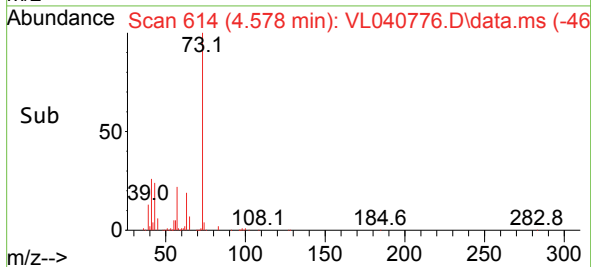
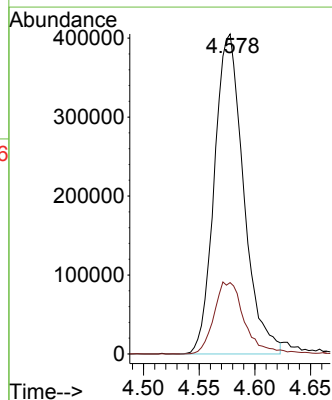
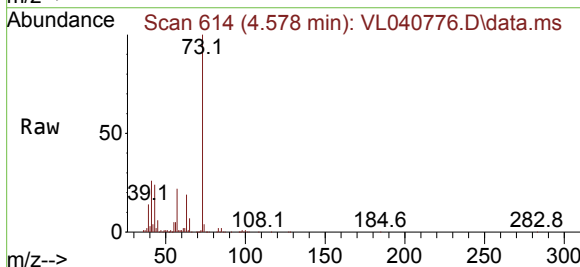
Instrument :  
MSVOA\_L  
ClientSampleId :

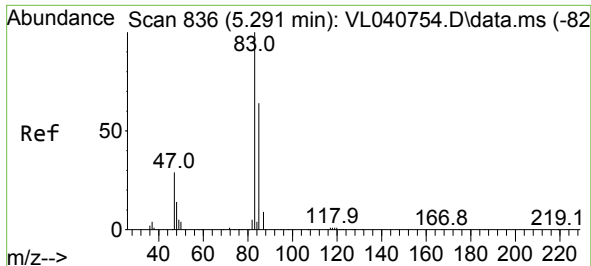
Tgt Ion: 76 Resp: 1188783  
Ion Ratio Lower Upper  
76 100  
44 20.2 16.6 25.0  
78 9.5 7.8 11.6



#28  
Methyl tert-Butyl Ether  
Concen: 9.157 ppbv  
RT: 4.578 min Scan# 614  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 73 Resp: 740543  
Ion Ratio Lower Upper  
73 100  
57 23.8 18.9 28.3





#29

Chloroform

Concen: 10.265 ppbv

RT: 5.263 min Scan# 81

Delta R.T. -0.029 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

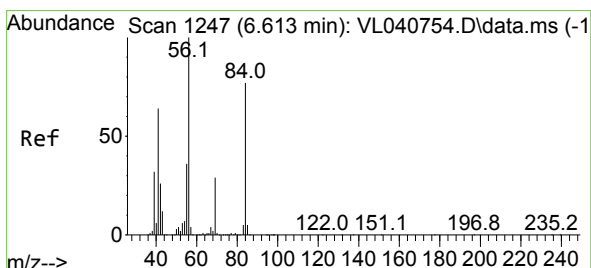
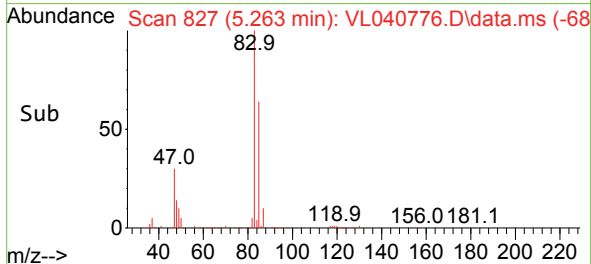
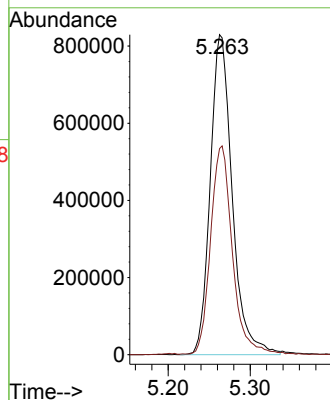
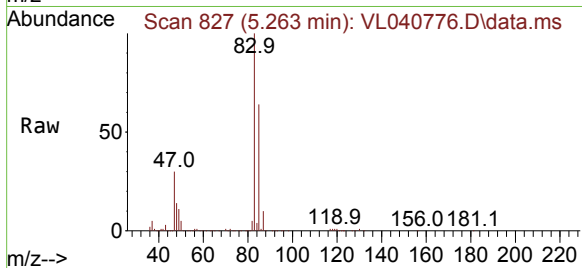
ClientSampleId :

Tgt Ion: 83 Resp: 1544761

Ion Ratio Lower Upper

83 100

85 64.3 51.3 76.9



#30

Cyclohexane

Concen: 9.963 ppbv

RT: 6.584 min Scan# 1238

Delta R.T. -0.029 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

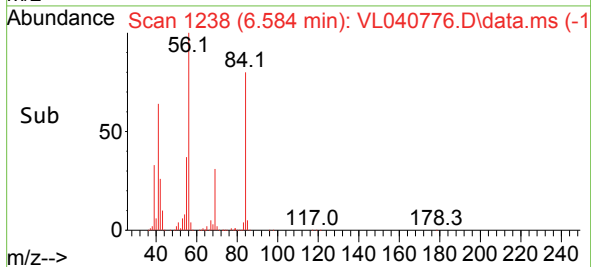
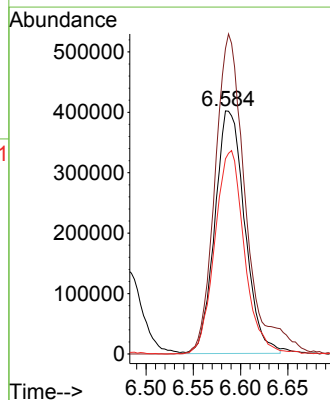
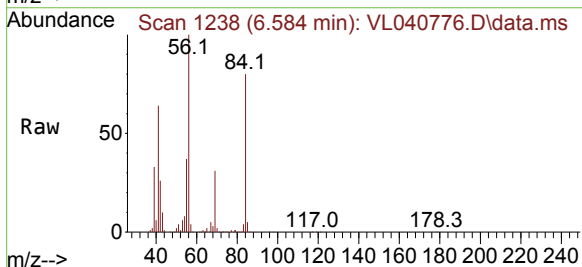
Tgt Ion: 84 Resp: 881722

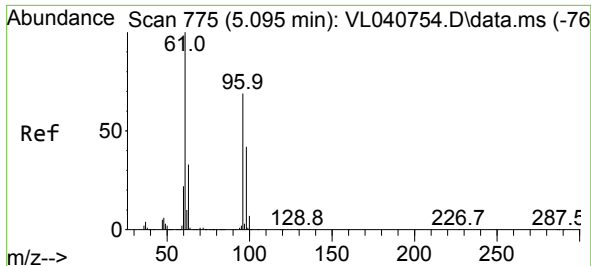
Ion Ratio Lower Upper

84 100

56 135.9 110.3 165.5

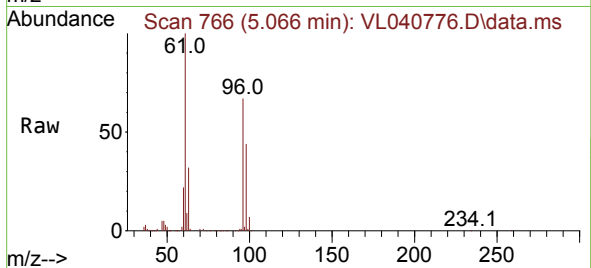
41 83.6 67.4 101.2





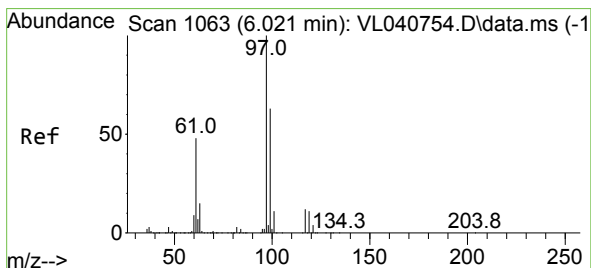
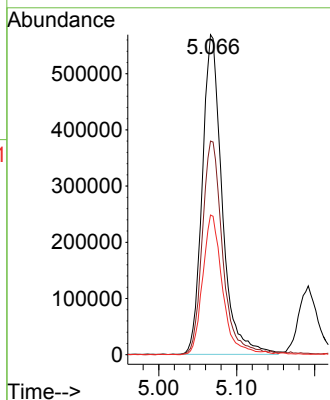
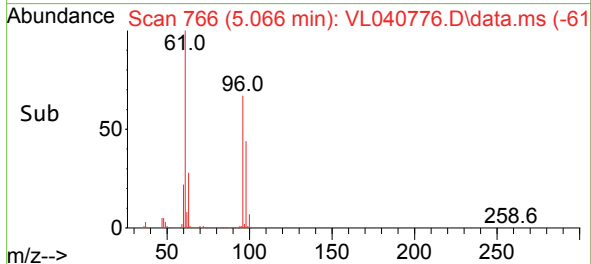
#31  
 cis-1,2-Dichloroethene  
 Concen: 10.529 ppbv  
 RT: 5.066 min Scan# 71  
 Delta R.T. -0.029 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :

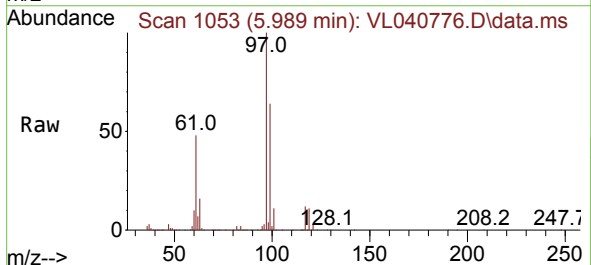


Tgt Ion: 61 Resp: 1009085

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 66.7  | 55.1  | 82.7  |
| 98  | 43.7  | 33.5  | 50.3  |

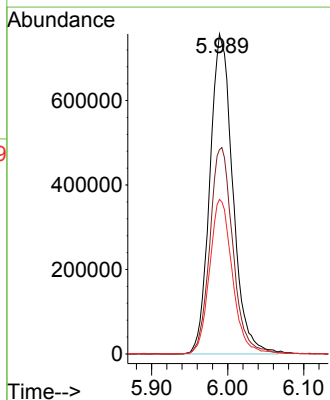
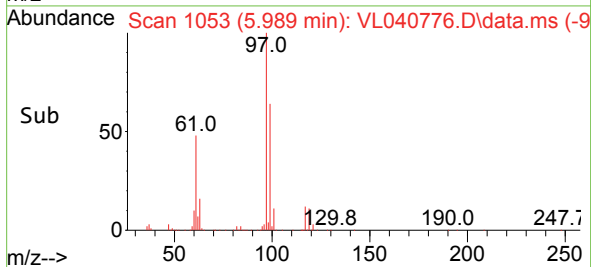


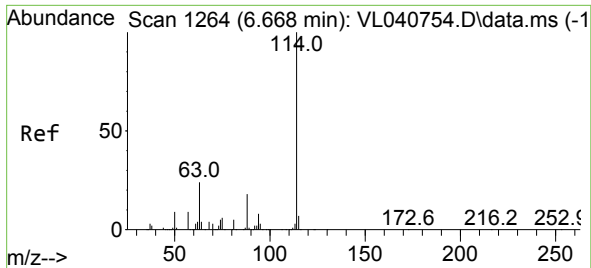
#32  
 1,1,1-Trichloroethane  
 Concen: 9.897 ppbv  
 RT: 5.989 min Scan# 1053  
 Delta R.T. -0.032 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50



Tgt Ion: 97 Resp: 1585065

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 65.1  | 51.8  | 77.6  |
| 61  | 48.5  | 38.6  | 58.0  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

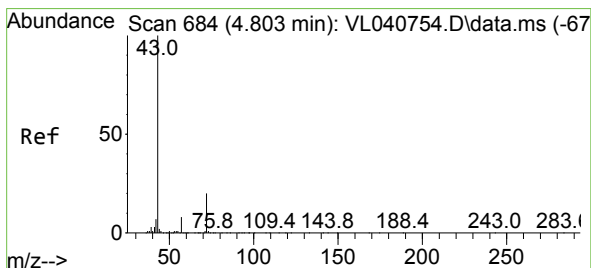
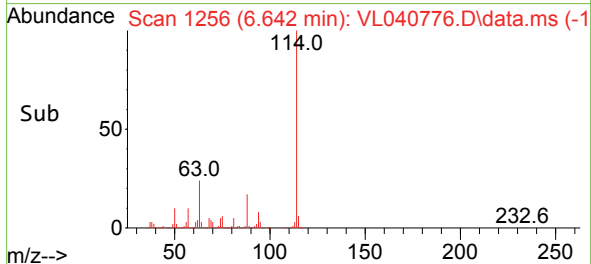
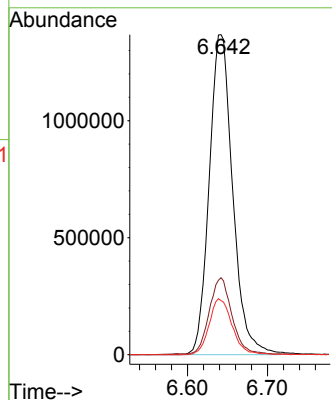
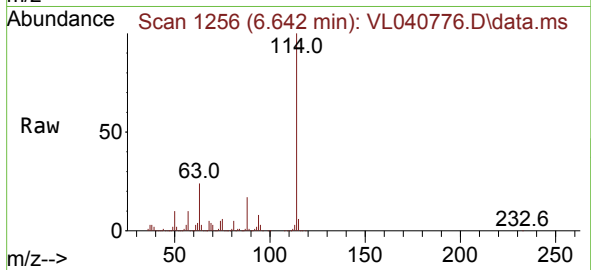
Tgt Ion:114 Resp: 2790361

Ion Ratio Lower Upper

114 100

63 23.8 19.8 29.6

88 17.2 14.2 21.2



#34

2-Butanone

Concen: 8.635 ppbv

RT: 4.774 min Scan# 675

Delta R.T. -0.029 min

Lab File: VL040776.D

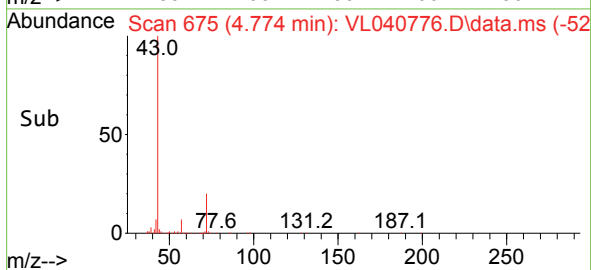
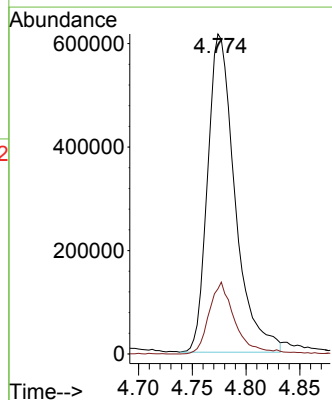
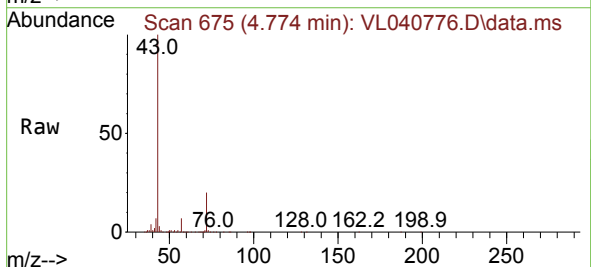
Acq: 23 Oct 2023 12:50

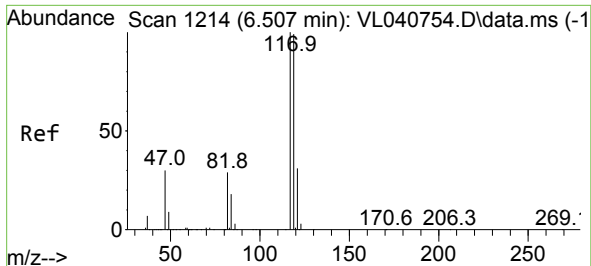
Tgt Ion: 43 Resp: 1090660

Ion Ratio Lower Upper

43 100

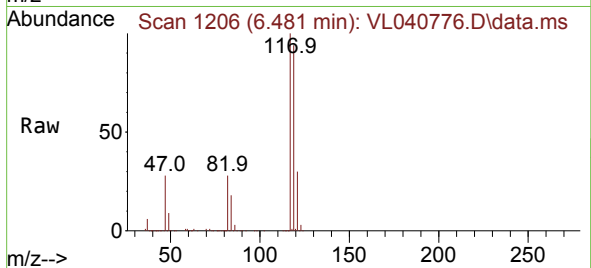
72 21.8 16.8 25.2



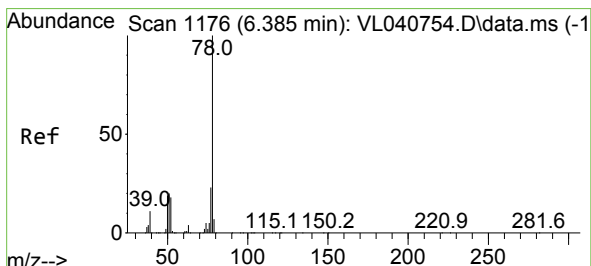
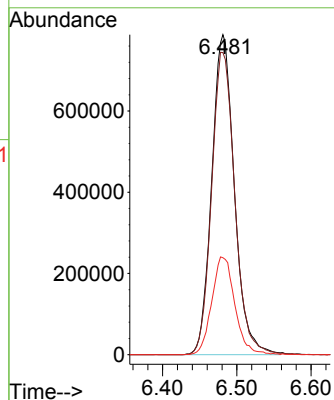
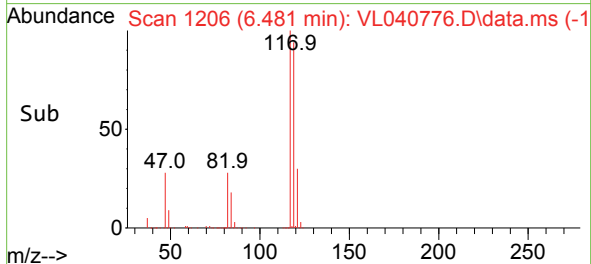


#35  
Carbon Tetrachloride  
Concen: 10.659 ppbv  
RT: 6.481 min Scan# 1168  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Instrument :  
MSVOA\_L  
ClientSampleId :

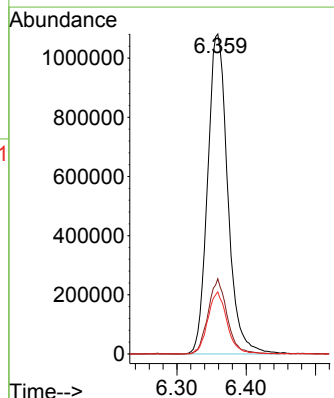
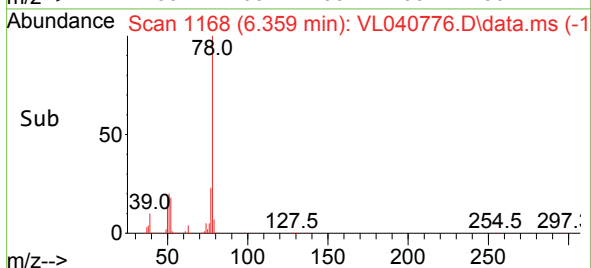
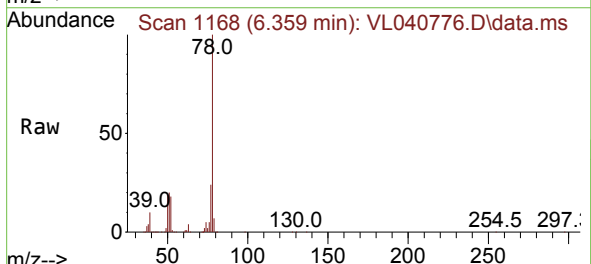


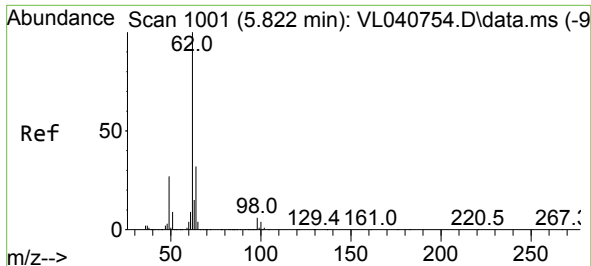
Tgt Ion:117 Resp: 1669351  
Ion Ratio Lower Upper  
117 100  
119 94.4 79.4 119.0  
121 30.3 25.0 37.4



#36  
Benzene  
Concen: 10.137 ppbv  
RT: 6.359 min Scan# 1168  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

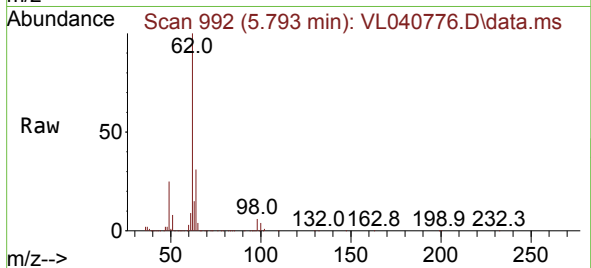
Tgt Ion: 78 Resp: 2175608  
Ion Ratio Lower Upper  
78 100  
77 23.5 18.4 27.6  
50 19.4 15.0 22.4



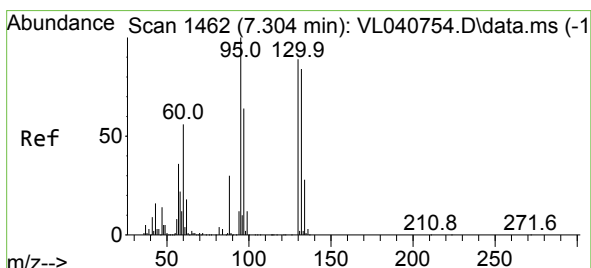
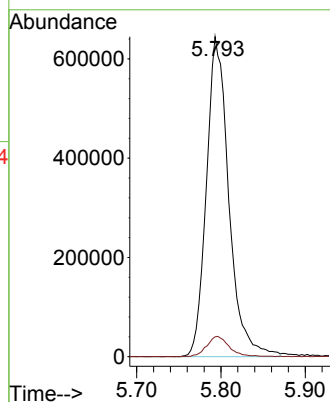
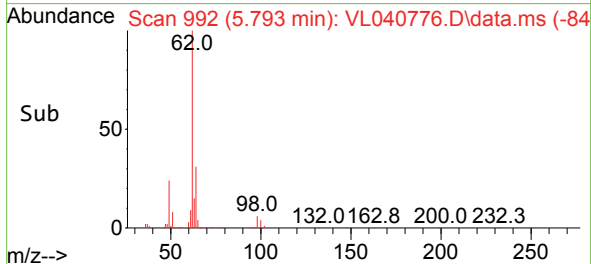


#37  
 1,2-Dichloroethane  
 Concen: 10.857 ppbv  
 RT: 5.793 min Scan# 91  
 Delta R.T. -0.029 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

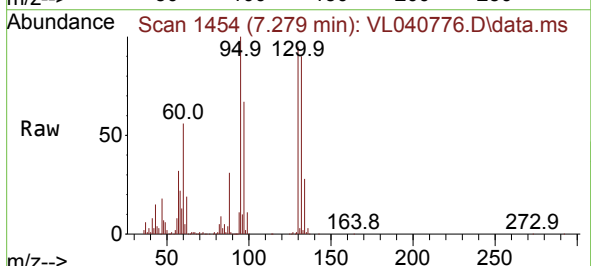
Instrument :  
 MSVOA\_L  
 ClientSampleId :



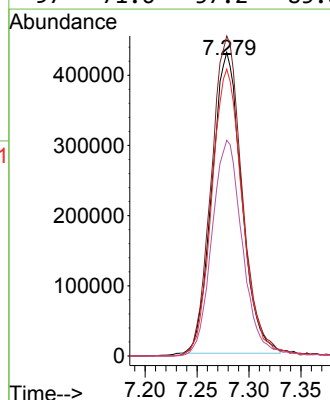
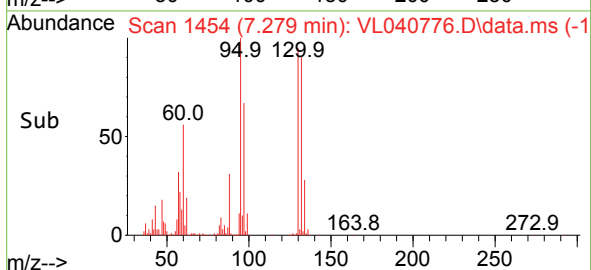
Tgt Ion: 62 Resp: 1193388  
 Ion Ratio Lower Upper  
 62 100  
 98 6.5 5.4 8.0

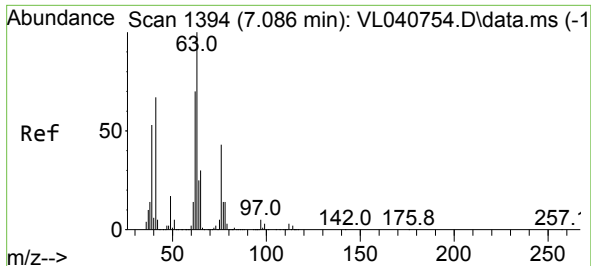


#38  
 Trichloroethene  
 Concen: 8.936 ppbv  
 RT: 7.279 min Scan# 1454  
 Delta R.T. -0.026 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50



Tgt Ion: 130 Resp: 848792  
 Ion Ratio Lower Upper  
 130 100  
 95 106.1 89.4 134.2  
 132 95.2 74.8 112.2  
 97 71.6 57.2 85.8





#39

1,2-Dichloropropane

Concen: 10.046 ppbv

RT: 7.060 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

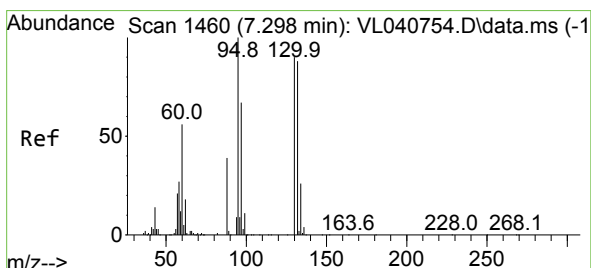
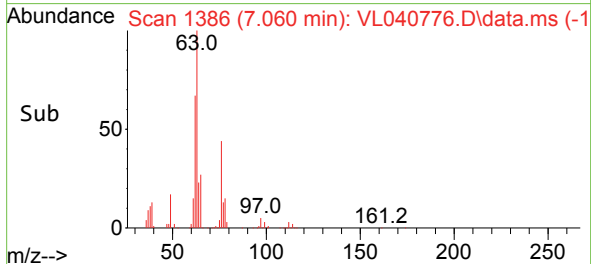
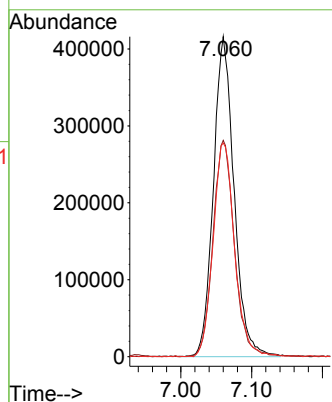
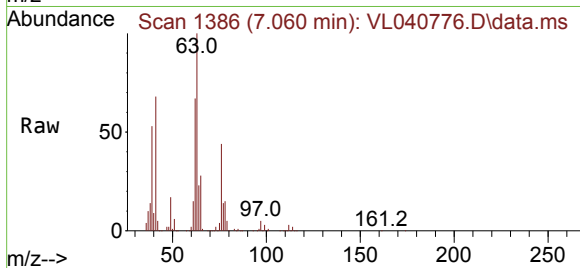
Tgt Ion: 63 Resp: 842334

Ion Ratio Lower Upper

63 100

41 67.4 53.7 80.5

62 66.8 55.7 83.5



#40

1,4-Dioxane

Concen: 11.328 ppbv

RT: 7.272 min Scan# 1452

Delta R.T. -0.026 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Tgt Ion: 88 Resp: 359454

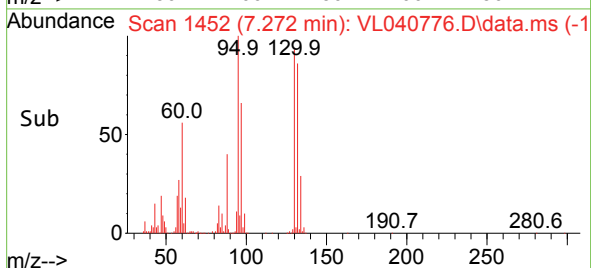
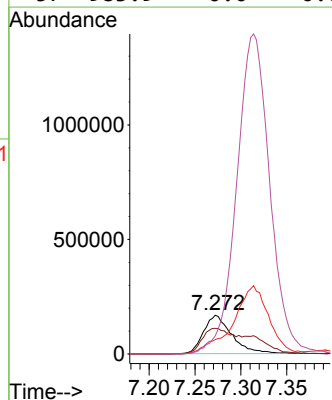
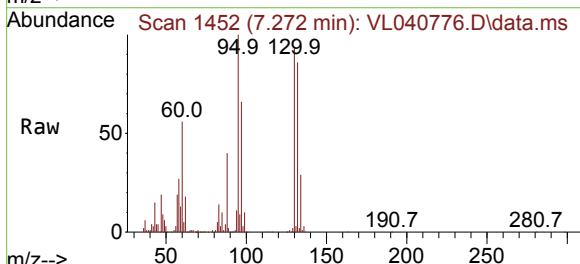
Ion Ratio Lower Upper

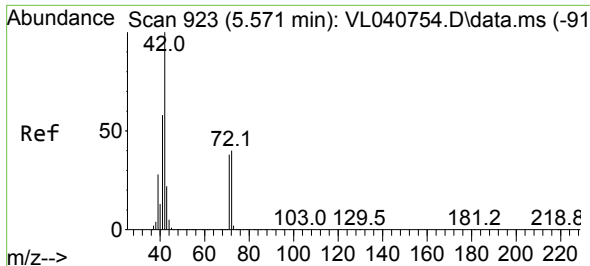
88 100

58 117.8 100.0 150.0

43 225.7 0.0 0.0#

57 983.9 0.0 0.0#

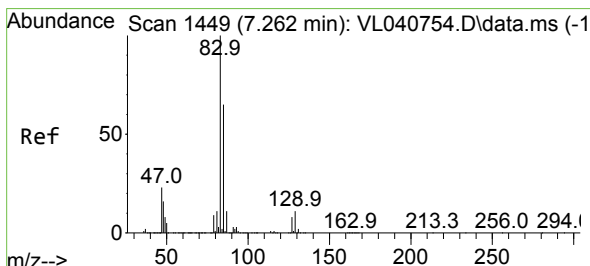
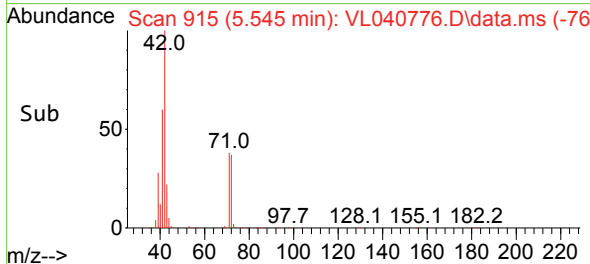
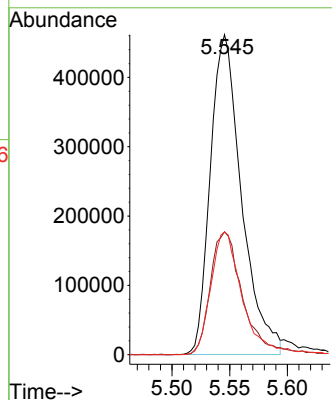
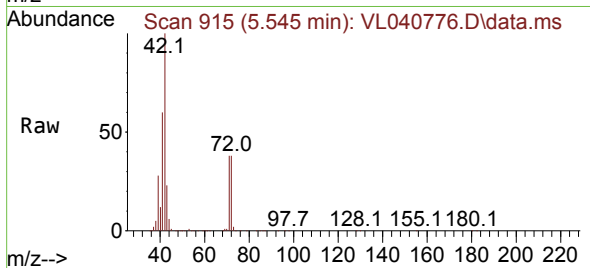




#41  
Tetrahydrofuran  
Concen: 9.919 ppbv  
RT: 5.545 min Scan# 915  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

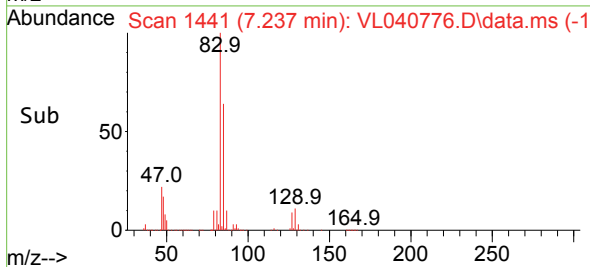
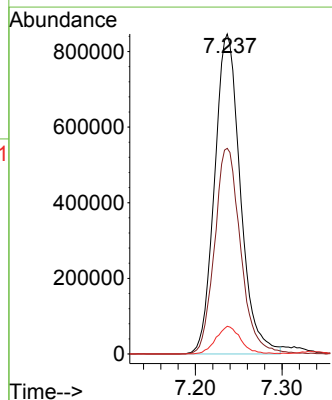
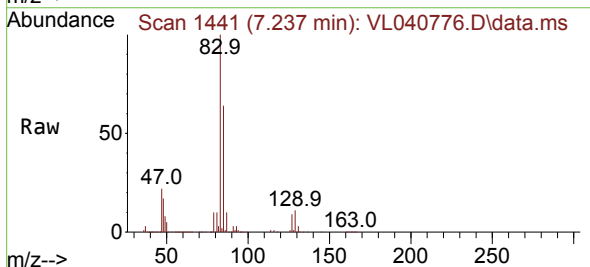
Instrument :  
MSVOA\_L  
ClientSampleId :

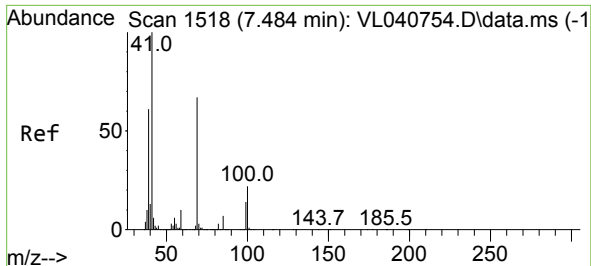
Tgt Ion: 42 Resp: 867593  
Ion Ratio Lower Upper  
42 100  
72 40.6 31.1 46.7  
71 39.6 29.7 44.5



#42  
Bromodichloromethane  
Concen: 10.634 ppbv  
RT: 7.237 min Scan# 1441  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 83 Resp: 1750928  
Ion Ratio Lower Upper  
83 100  
85 64.3 52.1 78.1  
127 8.6 6.7 10.1

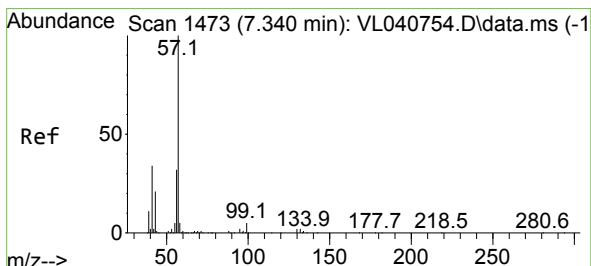
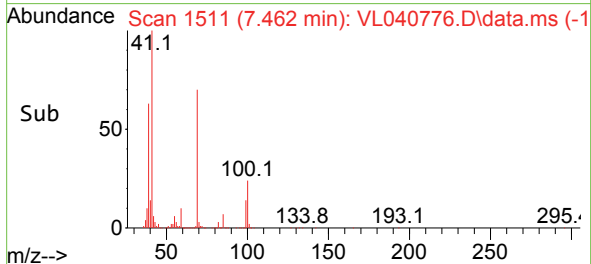
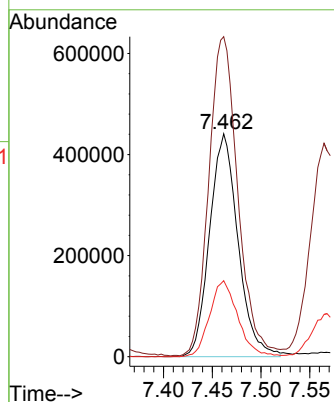
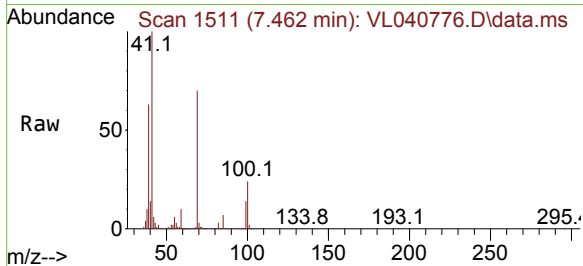




#43  
Methyl Methacrylate  
Concen: 10.400 ppbv  
RT: 7.462 min Scan# 11  
Delta R.T. -0.022 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

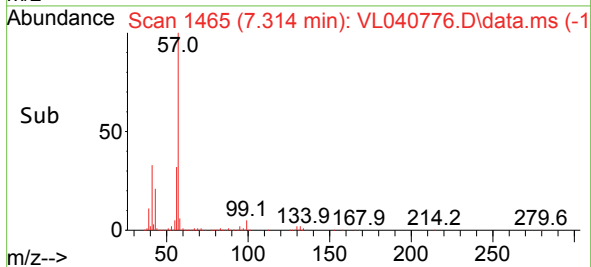
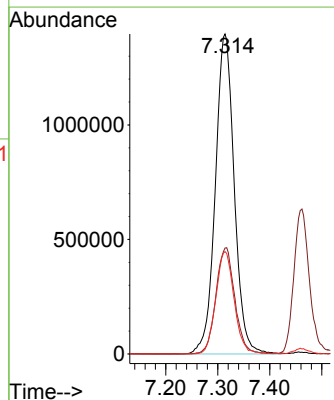
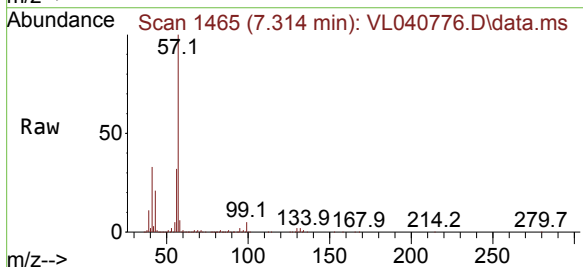
Instrument :  
MSVOA\_L  
ClientSampleId :

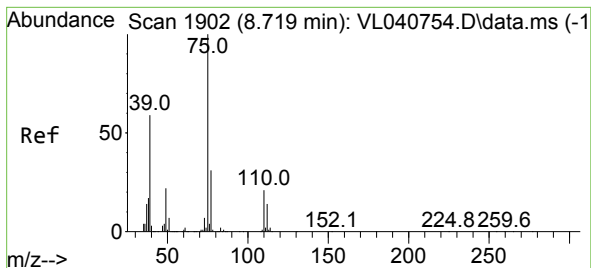
Tgt Ion: 69 Resp: 893544  
Ion Ratio Lower Upper  
69 100  
41 147.3 120.6 181.0  
100 34.0 27.1 40.7



#44  
2,2,4-Trimethylpentane  
Concen: 9.737 ppbv  
RT: 7.314 min Scan# 1465  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 57 Resp: 3534010  
Ion Ratio Lower Upper  
57 100  
41 33.1 27.4 41.0  
56 31.2 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 11.315 ppbv

RT: 8.696 min Scan# 1718

Delta R.T. -0.022 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

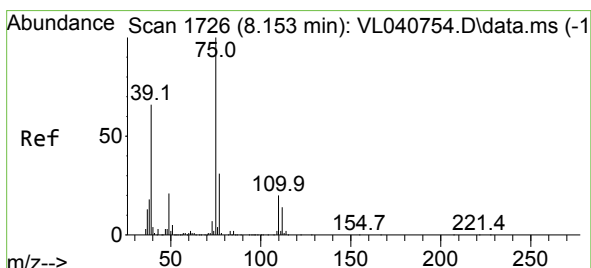
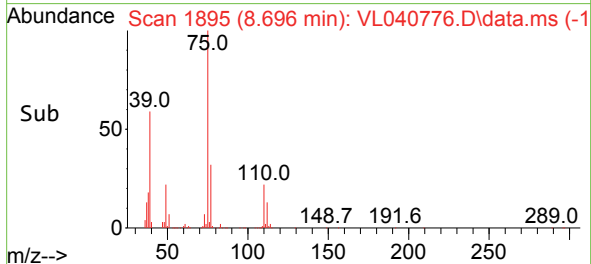
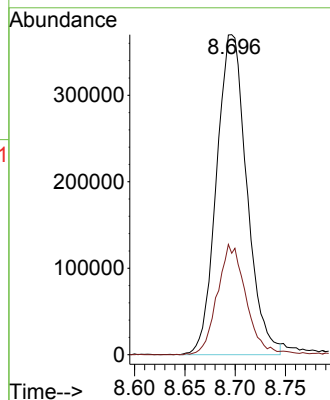
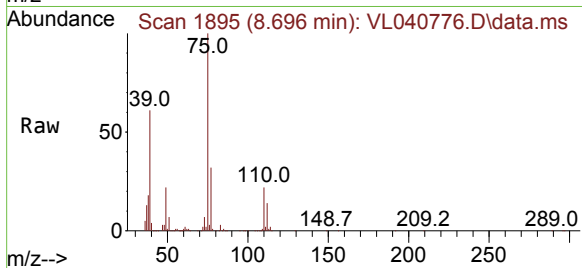
ClientSampleId :

Tgt Ion: 75 Resp: 775167

Ion Ratio Lower Upper

75 100

77 31.7 24.9 37.3



#46

cis-1,3-Dichloropropene

Concen: 10.926 ppbv

RT: 8.127 min Scan# 1718

Delta R.T. -0.026 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

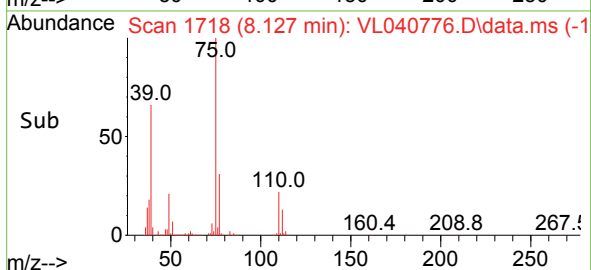
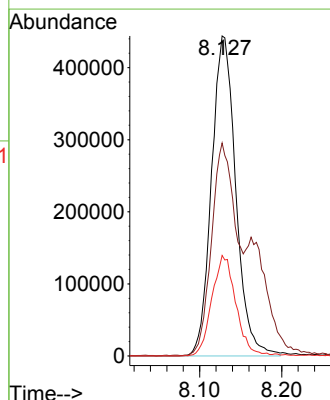
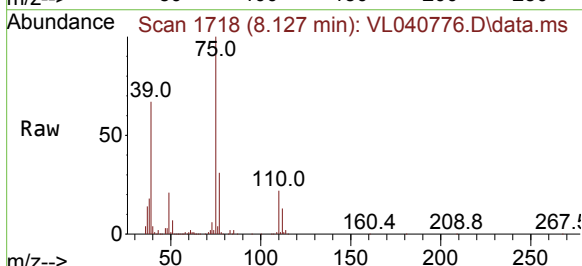
Tgt Ion: 75 Resp: 914484

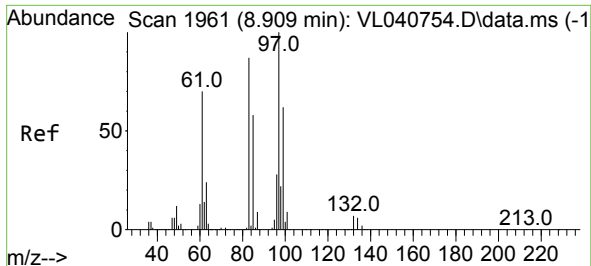
Ion Ratio Lower Upper

75 100

39 66.4 52.4 78.6

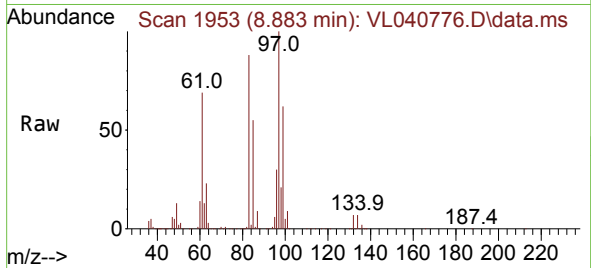
77 31.4 25.1 37.7





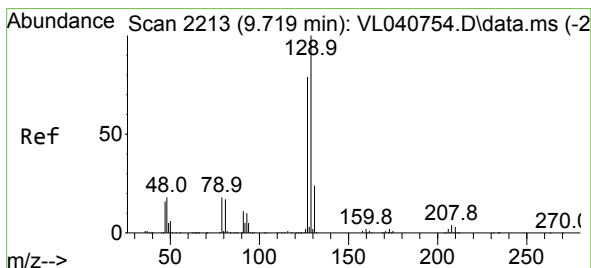
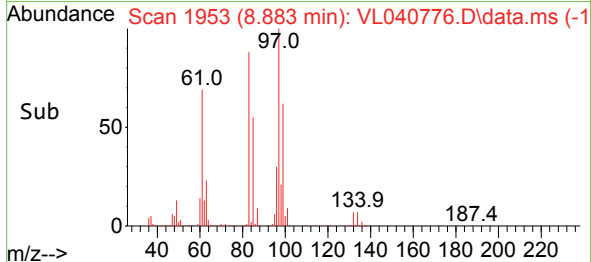
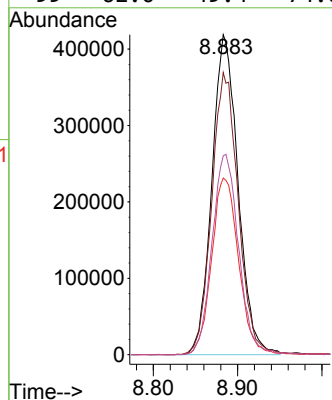
#47  
1,1,2-Trichloroethane  
Concen: 10.245 ppbv  
RT: 8.883 min Scan# 1961  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 97 Resp: 902390

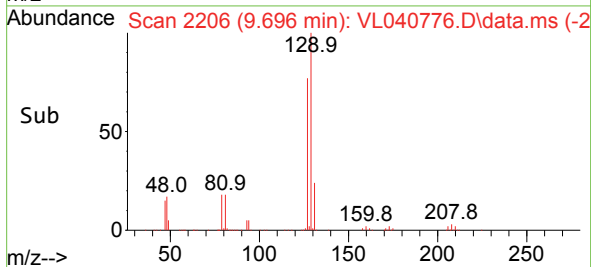
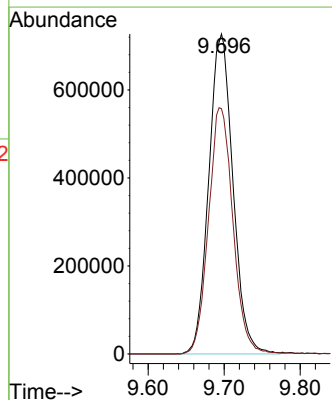
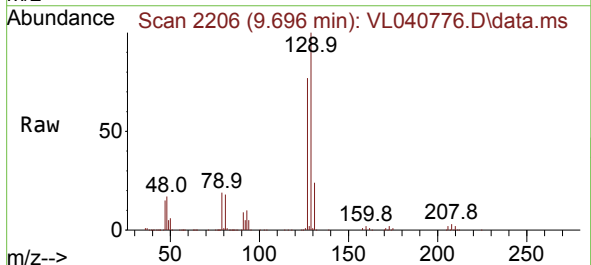
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.1  | 69.5  | 104.3 |
| 85  | 55.1  | 46.6  | 69.8  |
| 99  | 62.0  | 49.4  | 74.0  |

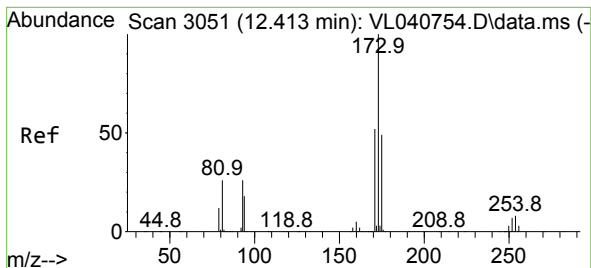


#48  
Dibromochloromethane  
Concen: 10.895 ppbv  
RT: 9.696 min Scan# 2206  
Delta R.T. -0.022 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 129 Resp: 1608151

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.8  | 39.1  | 117.3 |





#49

Bromoform

Concen: 10.790 ppbv

RT: 12.391 min Scan# 3044

Delta R.T. -0.022 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

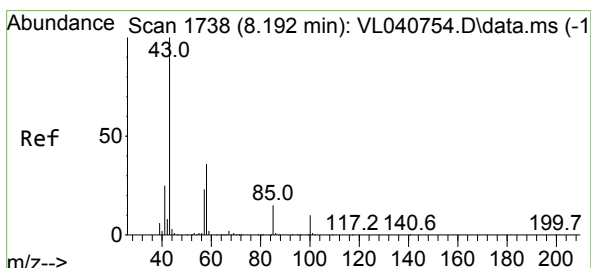
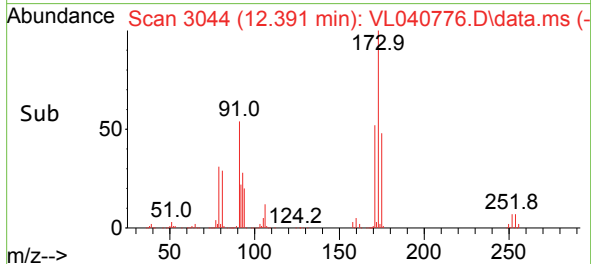
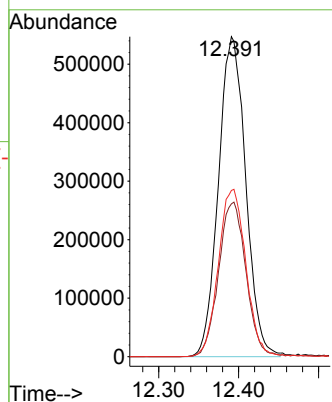
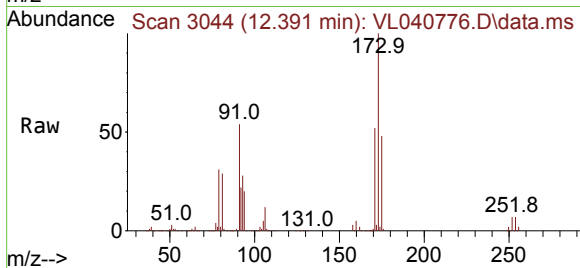
Tgt Ion:173 Resp: 1294684

Ion Ratio Lower Upper

173 100

175 48.9 39.2 58.8

171 53.2 42.0 63.0



#50

4-Methyl-2-Pentanone

Concen: 10.094 ppbv

RT: 8.169 min Scan# 1731

Delta R.T. -0.022 min

Lab File: VL040776.D

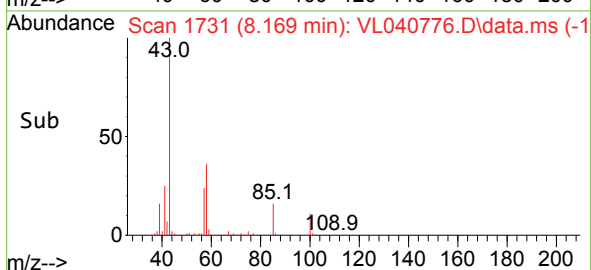
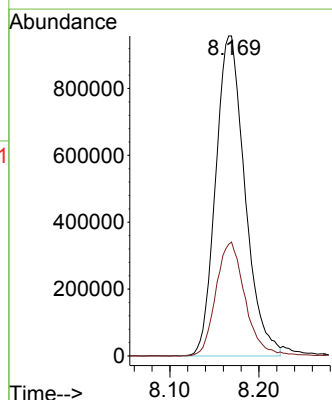
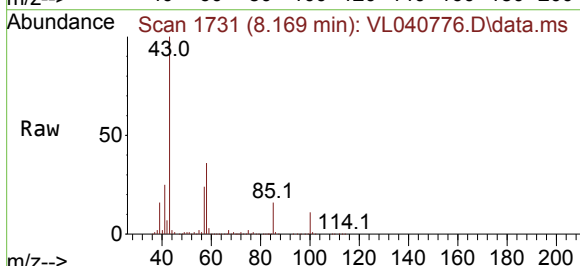
Acq: 23 Oct 2023 12:50

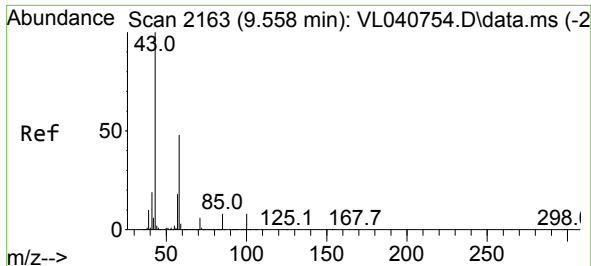
Tgt Ion: 43 Resp: 2181041

Ion Ratio Lower Upper

43 100

58 35.8 28.8 43.2

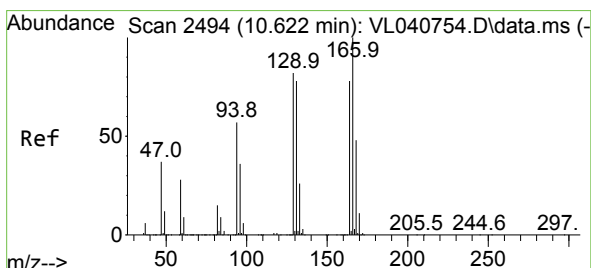
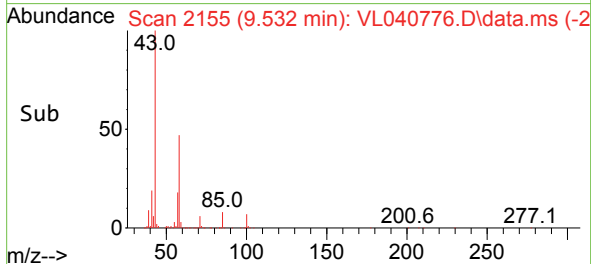
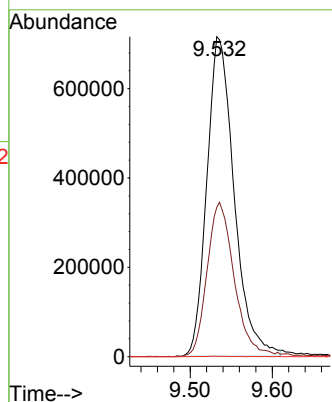
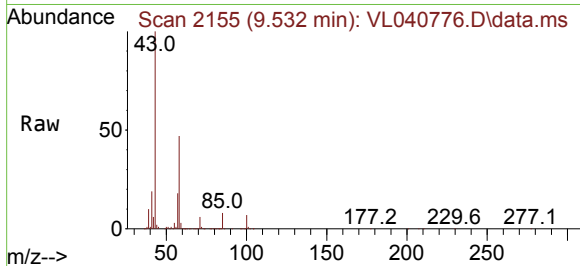




#51  
2-Hexanone  
Concen: 10.044 ppbv  
RT: 9.532 min Scan# 2163  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

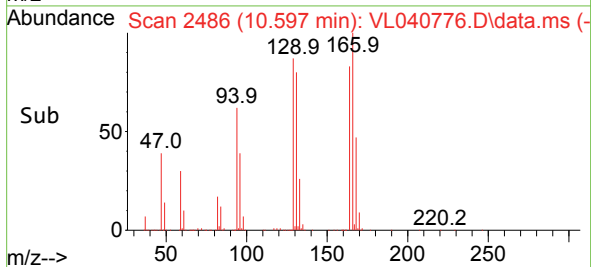
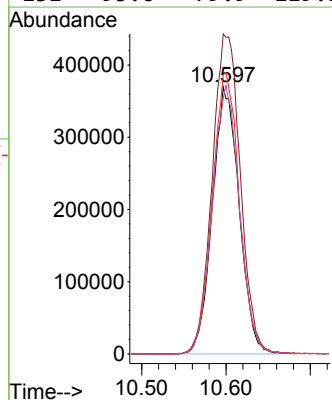
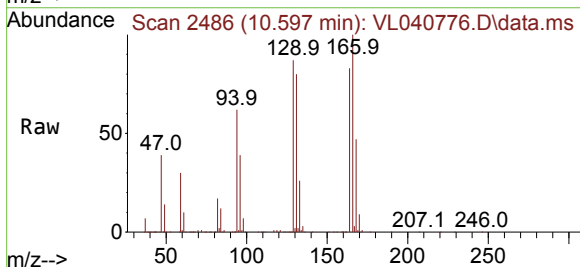
Instrument :  
MSVOA\_L  
ClientSampleId :

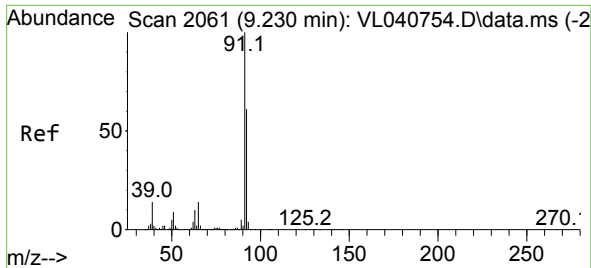
Tgt Ion: 43 Resp: 1651746  
Ion Ratio Lower Upper  
43 100  
58 49.0 38.6 58.0  
98 0.1 0.0 0.0#



#52  
Tetrachloroethene  
Concen: 9.342 ppbv  
RT: 10.597 min Scan# 2486  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion:164 Resp: 814440  
Ion Ratio Lower Upper  
164 100  
166 119.7 102.4 153.6  
129 104.3 84.2 126.4  
131 95.6 79.9 119.9

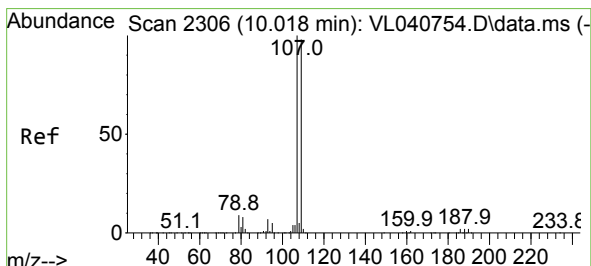
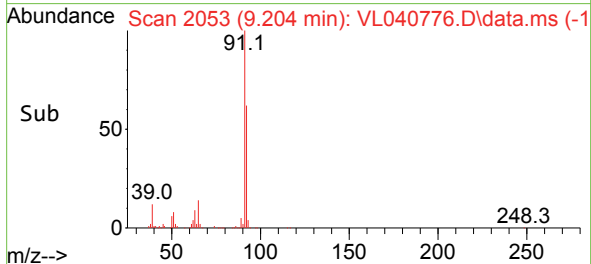
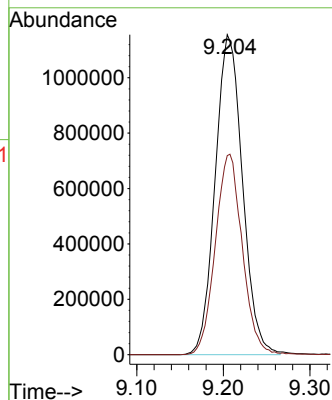
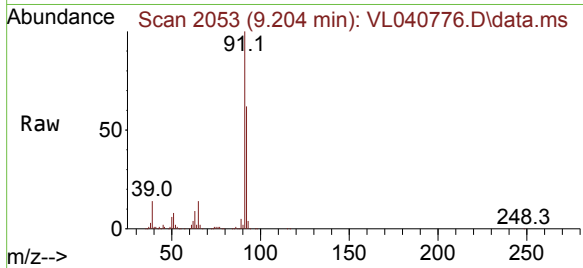




#53  
Toluene  
Concen: 9.905 ppbv  
RT: 9.204 min Scan# 2061  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

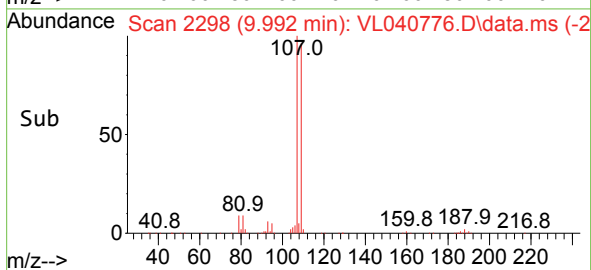
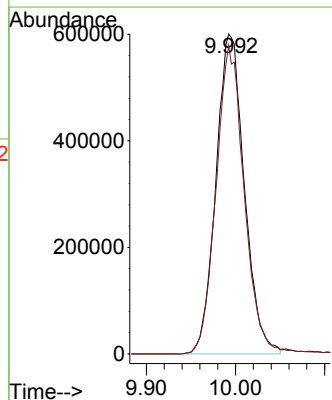
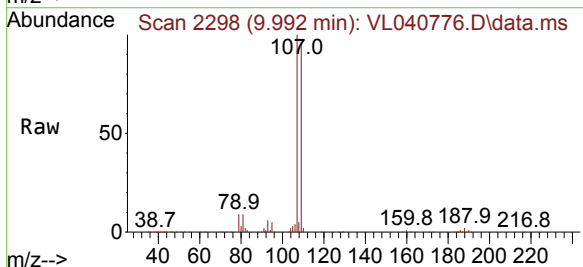
Instrument :  
MSVOA\_L  
ClientSampleId :

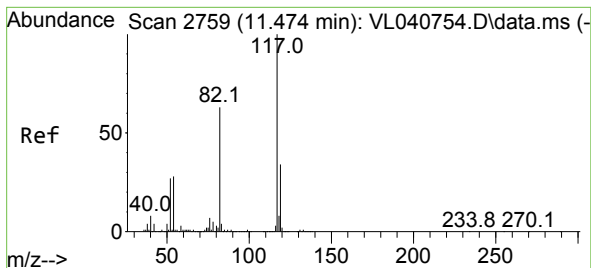
Tgt Ion: 91 Resp: 2530007  
Ion Ratio Lower Upper  
91 100  
92 62.2 50.2 75.2



#54  
1,2-Dibromoethane  
Concen: 10.765 ppbv  
RT: 9.992 min Scan# 2298  
Delta R.T. -0.026 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 107 Resp: 1329244  
Ion Ratio Lower Upper  
107 100  
109 96.4 78.2 117.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.452 min Scan# 21

Delta R.T. -0.022 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

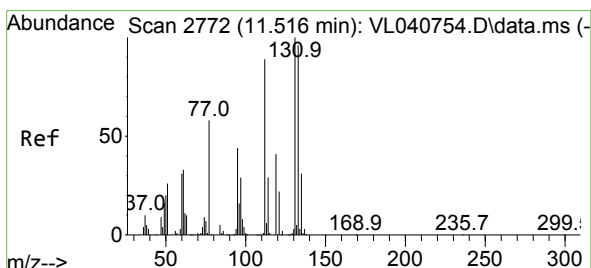
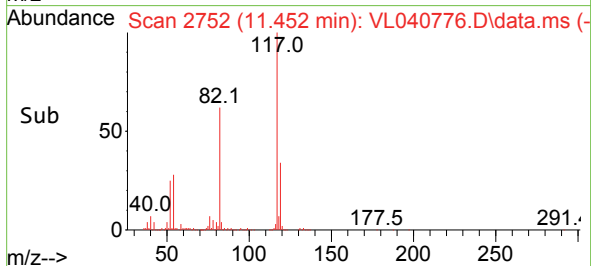
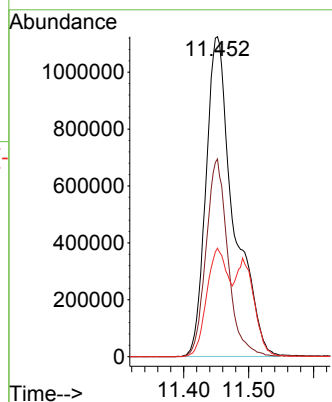
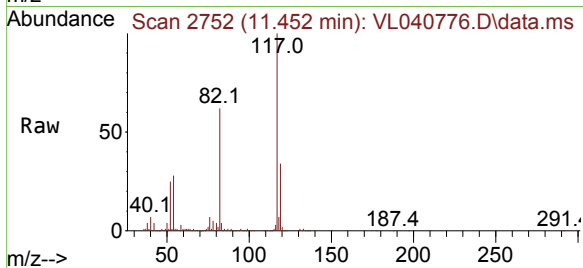
Tgt Ion:117 Resp: 3344290

Ion Ratio Lower Upper

117 100

82 49.3 46.6 70.0

119 25.2 26.0 39.0#



#56

1,1,1,2-Tetrachloroethane

Concen: 8.287 ppbv

RT: 11.491 min Scan# 2764

Delta R.T. -0.026 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

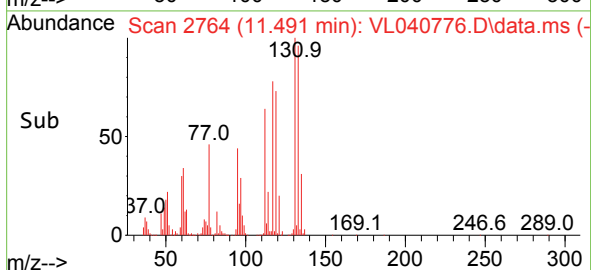
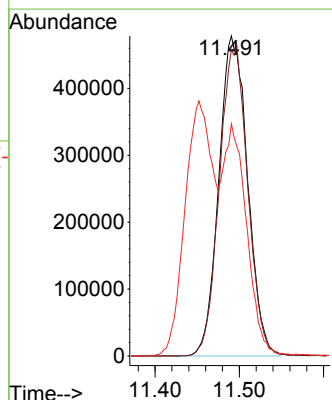
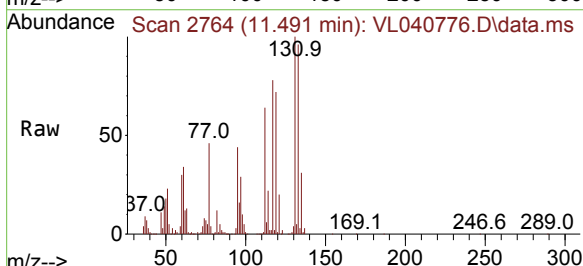
Tgt Ion:131 Resp: 1131033

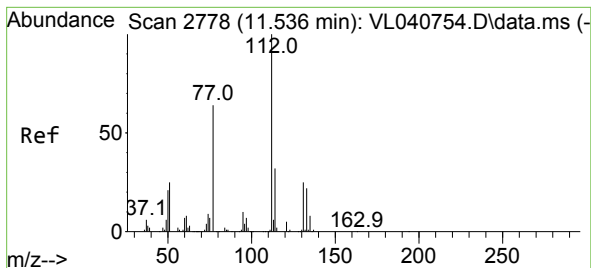
Ion Ratio Lower Upper

131 100

133 95.9 75.0 112.6

119 57.3 45.4 68.0





#57

Chlorobenzene

Concen: 8.213 ppbv

RT: 11.510 min Scan# 21

Delta R.T. -0.026 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

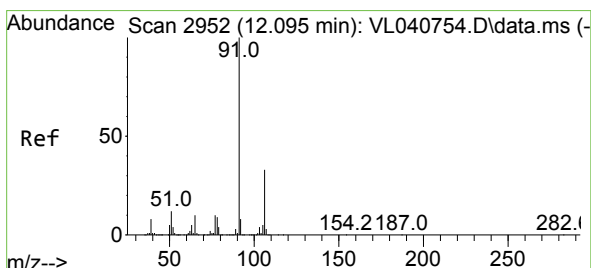
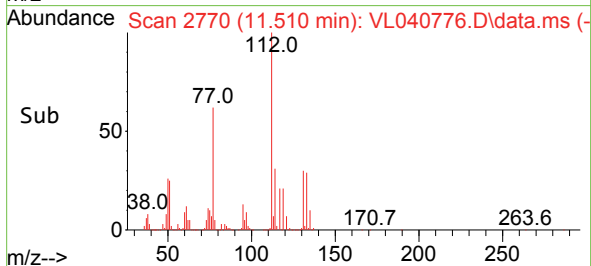
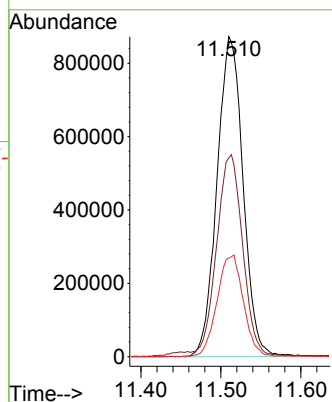
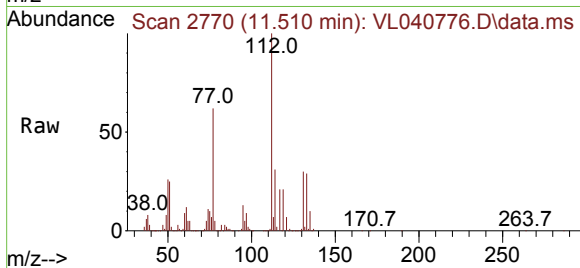
Tgt Ion:112 Resp: 1967868

Ion Ratio Lower Upper

112 100

77 61.7 51.9 77.9

114 30.9 28.6 35.0



#58

Ethyl Benzene

Concen: 8.056 ppbv

RT: 12.073 min Scan# 2945

Delta R.T. -0.022 min

Lab File: VL040776.D

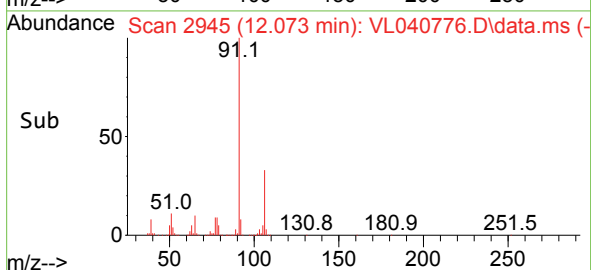
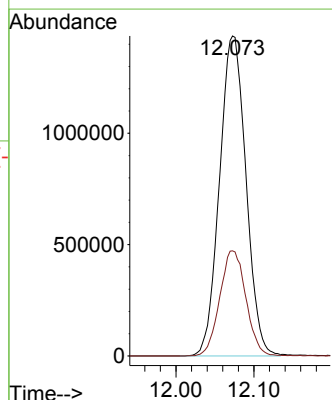
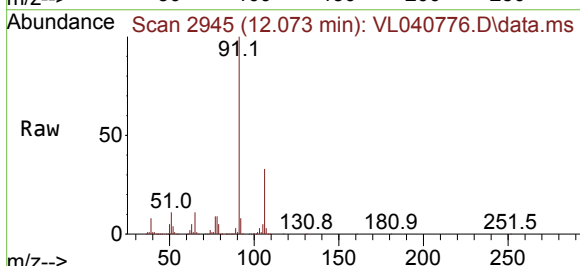
Acq: 23 Oct 2023 12:50

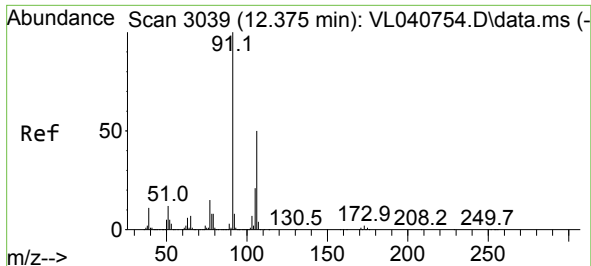
Tgt Ion: 91 Resp: 3392339

Ion Ratio Lower Upper

91 100

106 32.8 26.7 40.1





#59

m/p-Xylene

Concen: 7.003 ppbv

RT: 12.355 min Scan# 3033

Delta R.T. -0.019 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

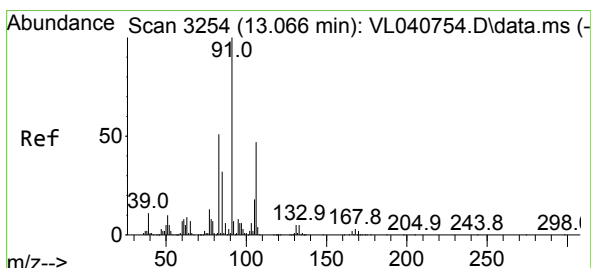
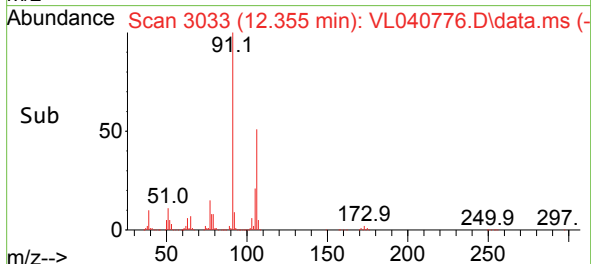
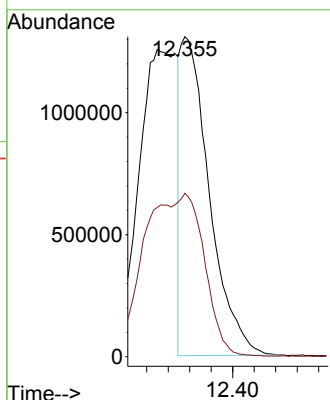
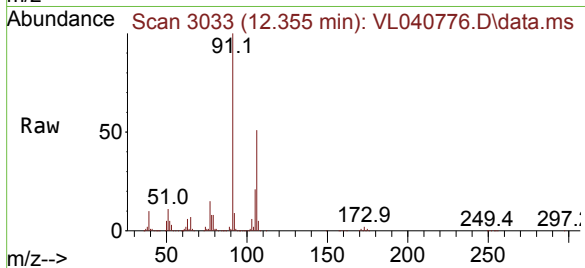
ClientSampleId :

Tgt Ion: 91 Resp: 2427046

Ion Ratio Lower Upper

91 100

106 107.5 37.7 56.5#



#60

o-Xylene

Concen: 7.951 ppbv

RT: 13.044 min Scan# 3247

Delta R.T. -0.022 min

Lab File: VL040776.D

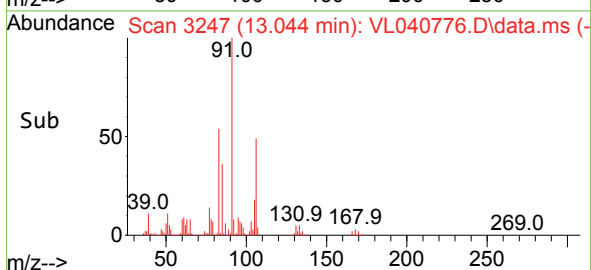
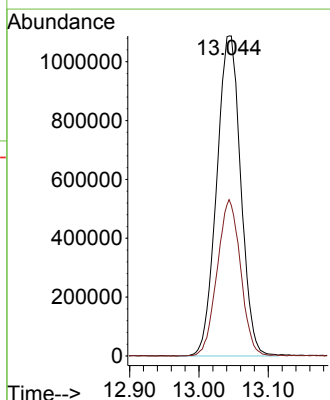
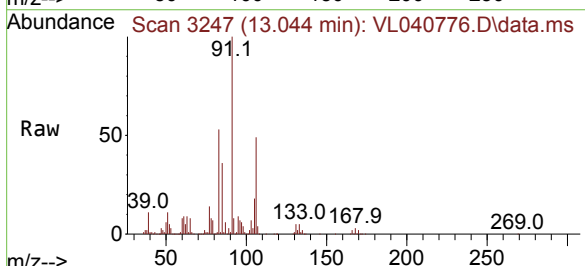
Acq: 23 Oct 2023 12:50

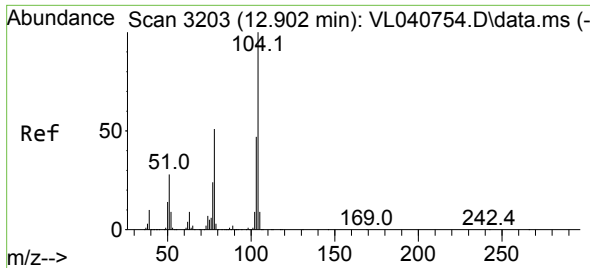
Tgt Ion: 91 Resp: 2625658

Ion Ratio Lower Upper

91 100

106 47.7 23.5 70.5





#61

Styrene

Concen: 8.446 ppbv

RT: 12.880 min Scan# 3196

Delta R.T. -0.022 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

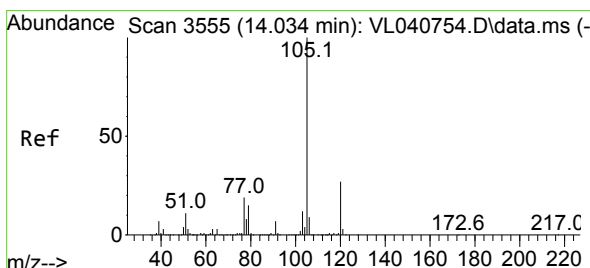
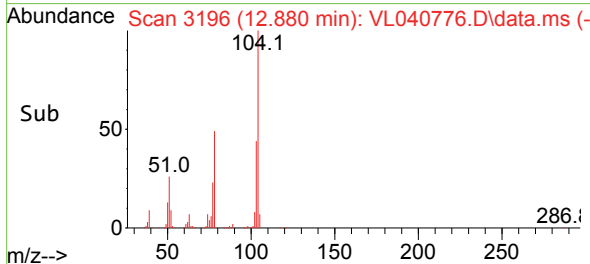
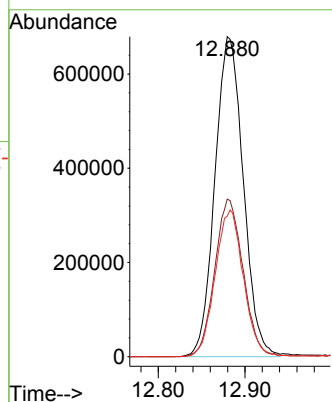
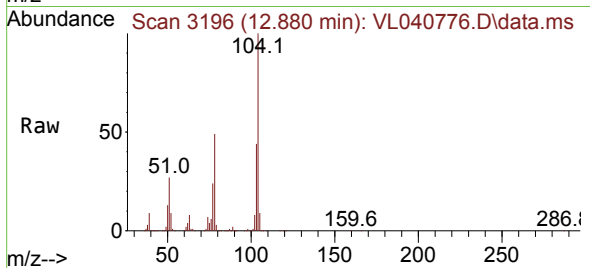
Tgt Ion:104 Resp: 1545314

Ion Ratio Lower Upper

104 100

78 49.5 39.8 59.6

103 45.9 37.5 56.3



#62

Isopropylbenzene

Concen: 7.963 ppbv

RT: 14.015 min Scan# 3549

Delta R.T. -0.019 min

Lab File: VL040776.D

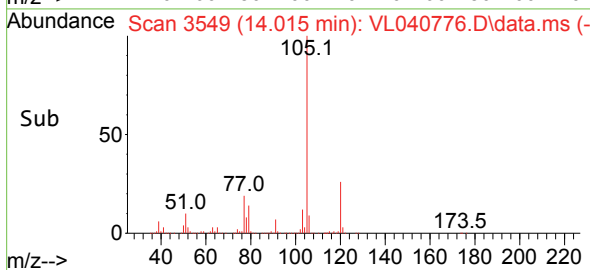
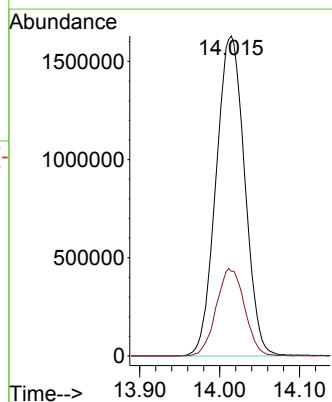
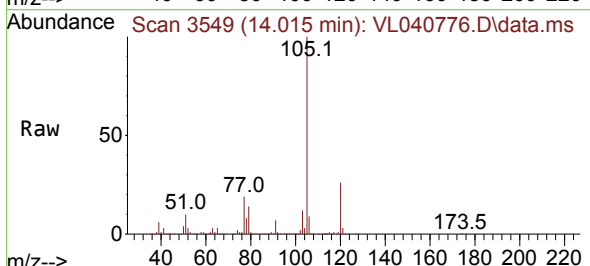
Acq: 23 Oct 2023 12:50

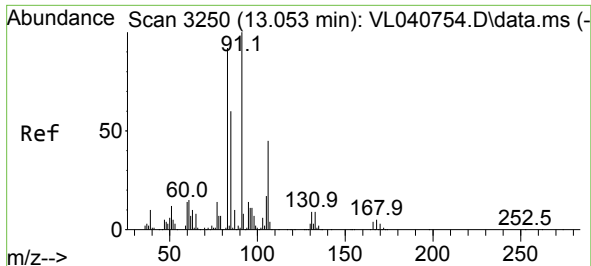
Tgt Ion:105 Resp: 4045350

Ion Ratio Lower Upper

105 100

120 27.1 21.5 32.3

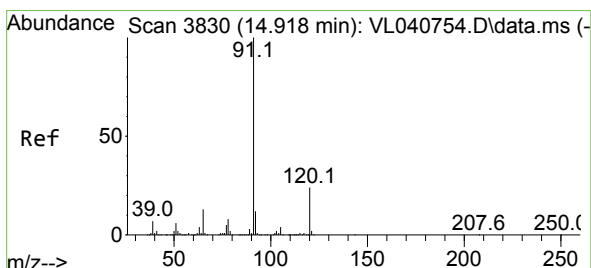
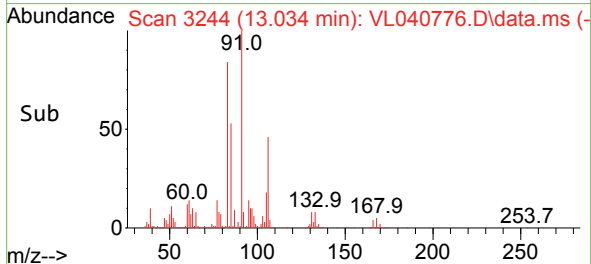
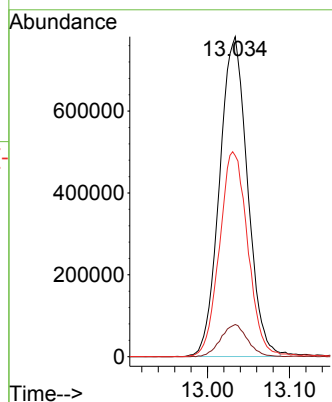
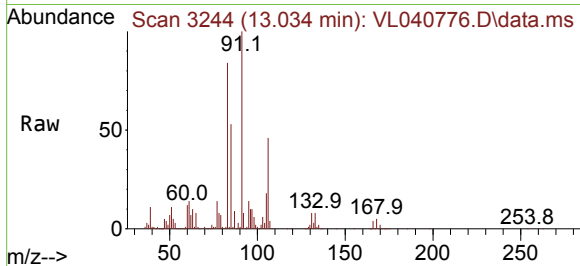




#63  
1,1,2,2-Tetrachloroethane  
Concen: 7.478 ppbv  
RT: 13.034 min Scan# 31  
Delta R.T. -0.019 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

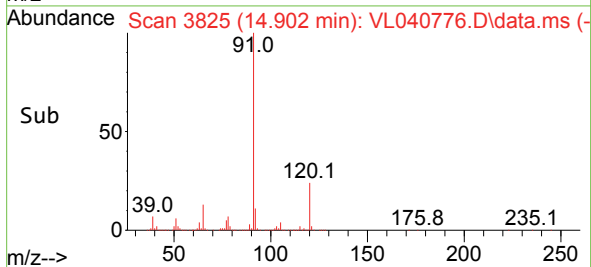
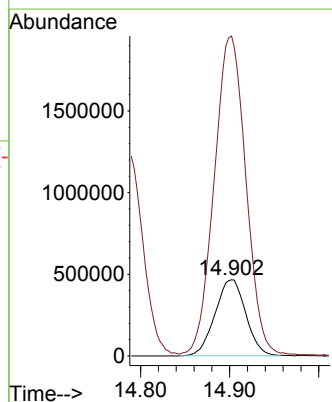
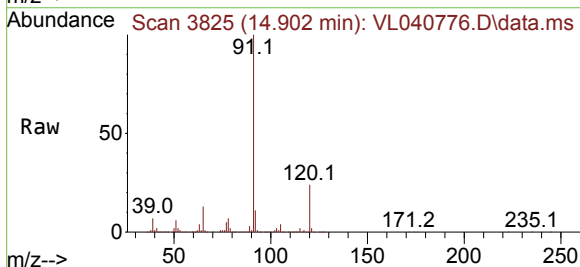
Instrument :  
MSVOA\_L  
ClientSampleId :

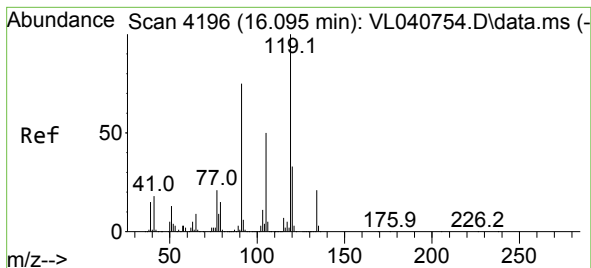
Tgt Ion: 83 Resp: 1851204  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.9 14.6  
85 65.8 32.9 98.7



#64  
n-propylbenzene  
Concen: 8.174 ppbv  
RT: 14.902 min Scan# 3825  
Delta R.T. -0.016 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion:120 Resp: 1115455  
Ion Ratio Lower Upper  
120 100  
91 437.4 345.9 518.9

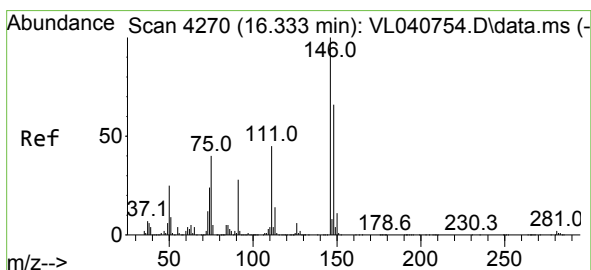
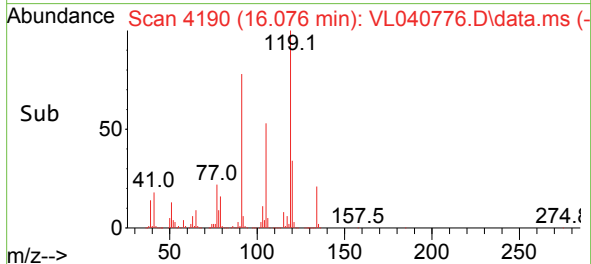
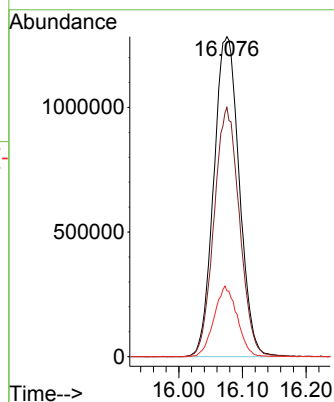
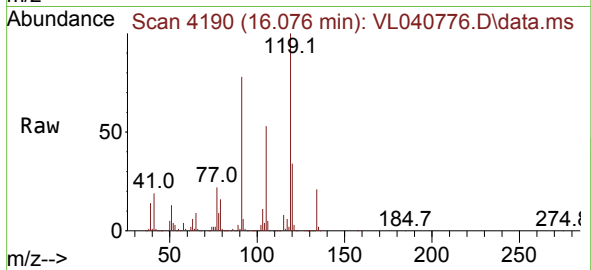




#65  
tert-Butylbenzene  
Concen: 7.791 ppbv  
RT: 16.076 min Scan# 4190  
Delta R.T. -0.019 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

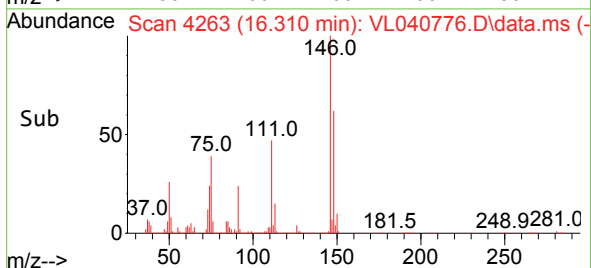
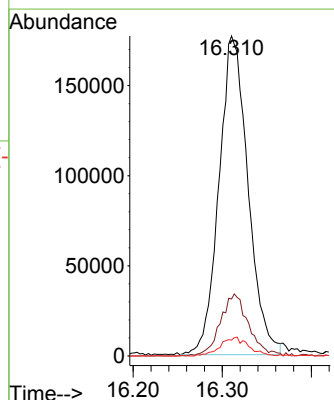
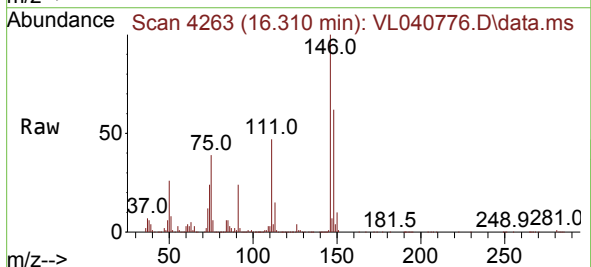
Instrument :  
MSVOA\_L  
ClientSampleId :

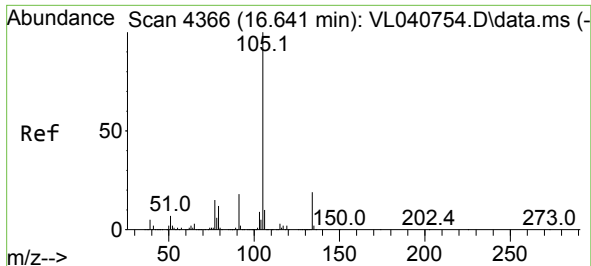
Tgt Ion:119 Resp: 3569699  
Ion Ratio Lower Upper  
119 100  
91 77.6 62.2 93.2  
134 20.1 16.1 24.1



#66  
Benzyl Chloride  
Concen: 8.672 ppbv  
RT: 16.310 min Scan# 4263  
Delta R.T. -0.022 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion: 91 Resp: 400328  
Ion Ratio Lower Upper  
91 100  
126 19.4 16.1 24.1  
128 5.9 5.2 7.8

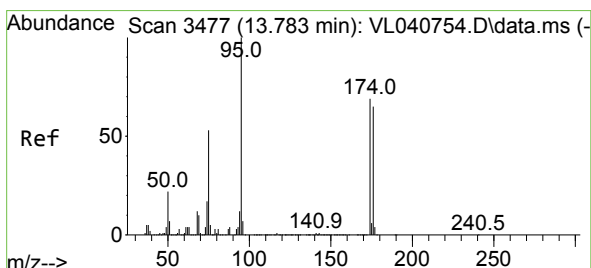
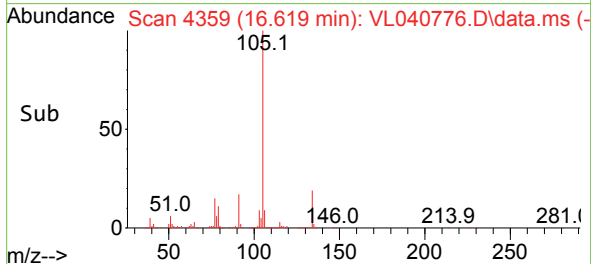
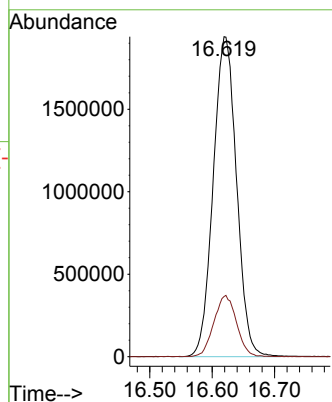
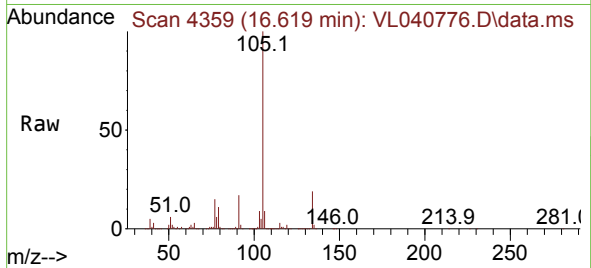




#67  
 sec-Butylbenzene  
 Concen: 8.012 ppbv  
 RT: 16.619 min Scan# 41  
 Delta R.T. -0.022 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

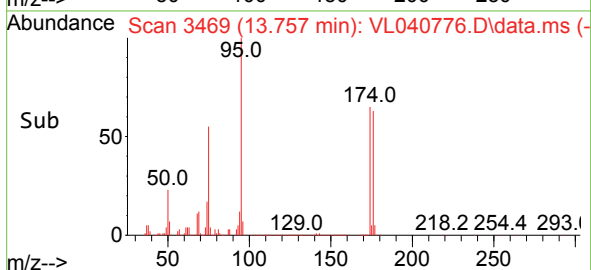
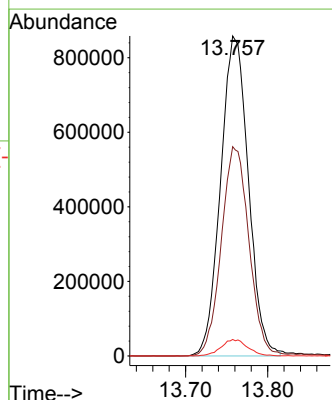
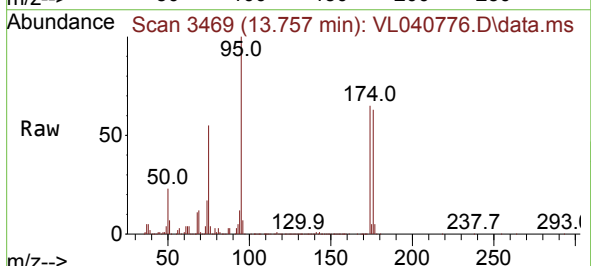
Instrument :  
 MSVOA\_L  
 ClientSampleId :

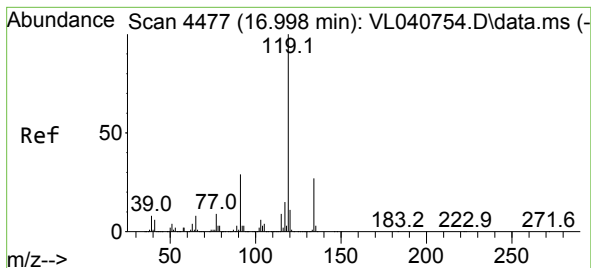
Tgt Ion:105 Resp: 5026091  
 Ion Ratio Lower Upper  
 105 100  
 134 18.8 15.4 23.2



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.219 ppbv  
 RT: 13.757 min Scan# 3469  
 Delta R.T. -0.026 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Tgt Ion: 95 Resp: 2022497  
 Ion Ratio Lower Upper  
 95 100  
 174 65.9 54.7 82.1  
 175 5.0 4.2 6.4





#69

p-Isopropyltoluene

Concen: 7.970 ppbv

RT: 16.979 min Scan# 4477

Delta R.T. -0.019 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :

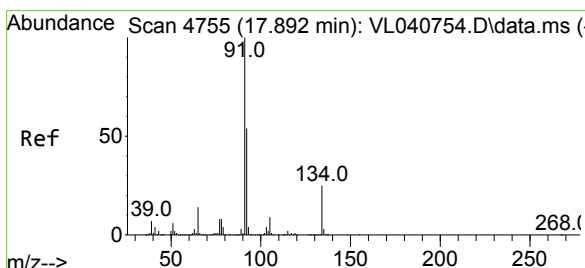
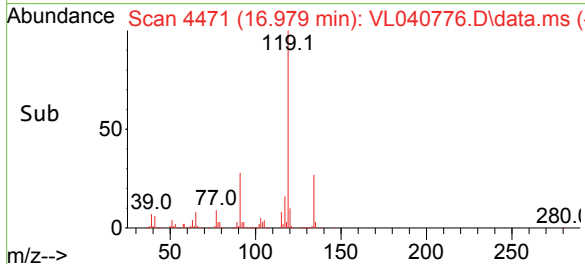
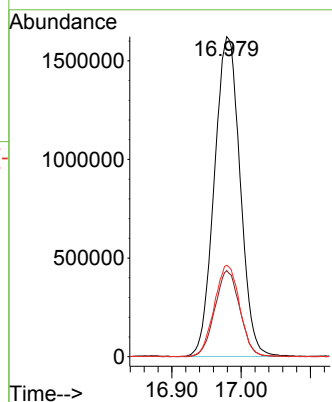
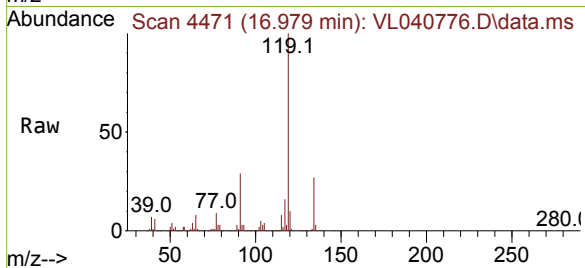
Tgt Ion:119 Resp: 4189593

Ion Ratio Lower Upper

119 100

134 26.2 21.0 31.4

91 28.3 22.8 34.2



#70

n-Butylbenzene

Concen: 8.129 ppbv

RT: 17.870 min Scan# 4748

Delta R.T. -0.022 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

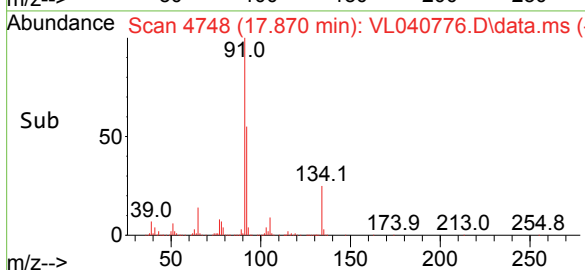
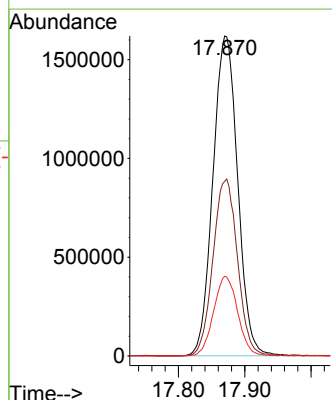
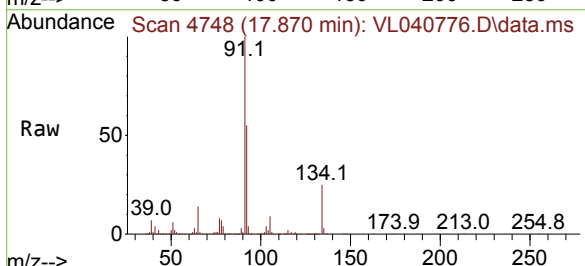
Tgt Ion: 91 Resp: 4195898

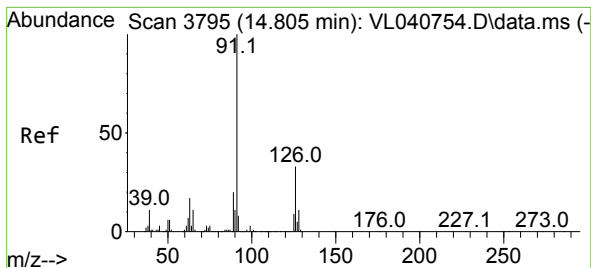
Ion Ratio Lower Upper

91 100

92 54.9 44.1 66.1

134 24.4 19.5 29.3

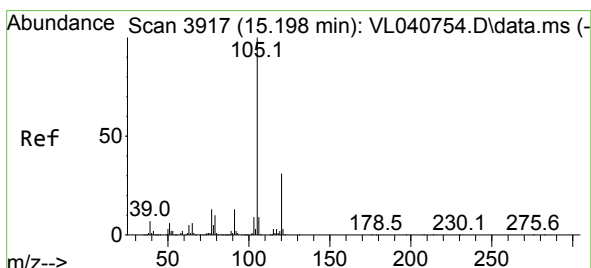
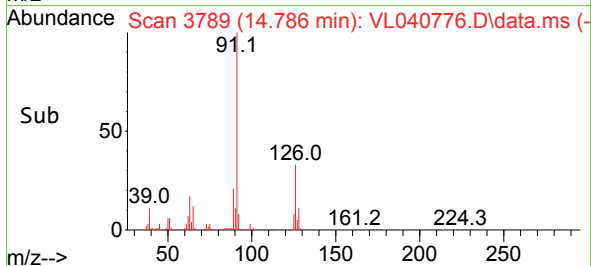
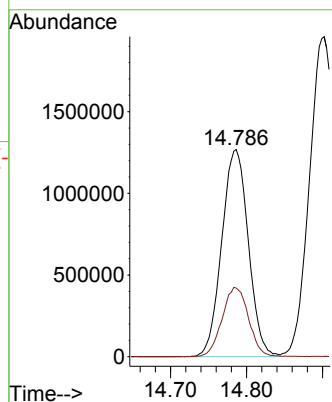
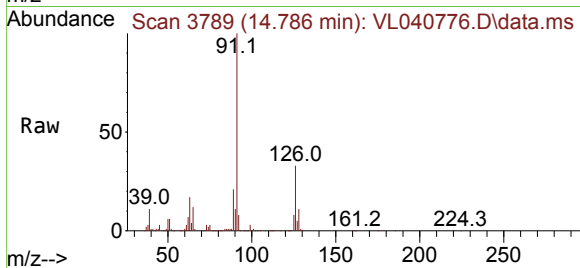




#71  
2-Chlorotoluene  
Concen: 8.072 ppbv  
RT: 14.786 min Scan# 31  
Delta R.T. -0.019 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

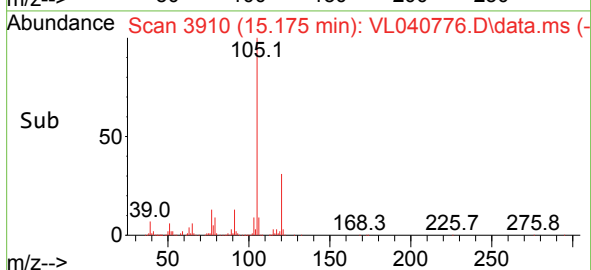
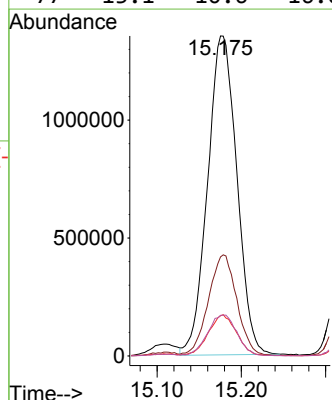
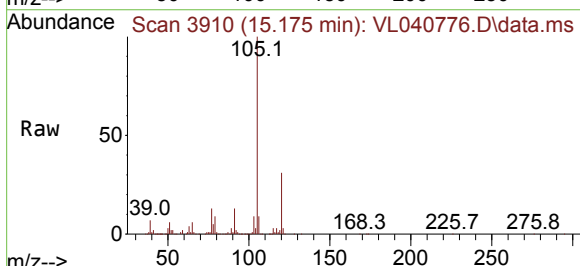
Instrument :  
MSVOA\_L  
ClientSampleId :

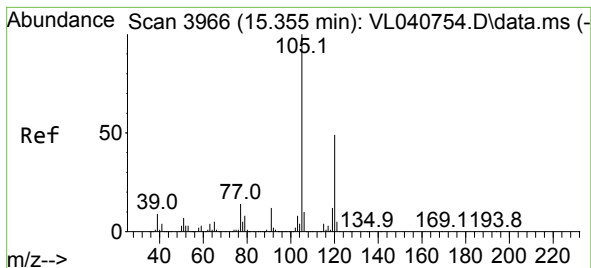
Tgt Ion: 91 Resp: 3080130  
Ion Ratio Lower Upper  
91 100  
126 33.3 13.3 53.1



#72  
4-Ethyltoluene  
Concen: 8.435 ppbv  
RT: 15.175 min Scan# 3910  
Delta R.T. -0.022 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion:105 Resp: 3261655  
Ion Ratio Lower Upper  
105 100  
120 31.2 25.0 37.4  
91 13.4 9.8 14.8  
77 13.1 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 8.255 ppbv

RT: 15.336 min Scan# 3960

Delta R.T. -0.019 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

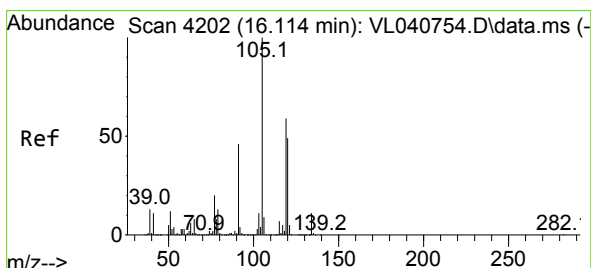
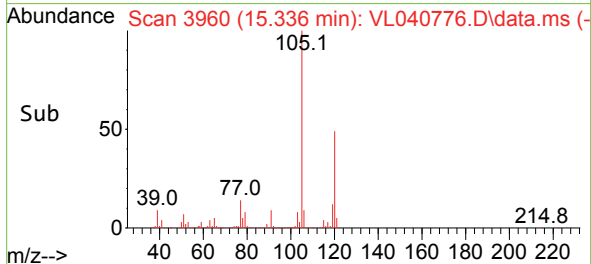
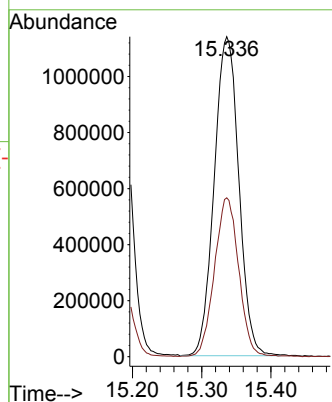
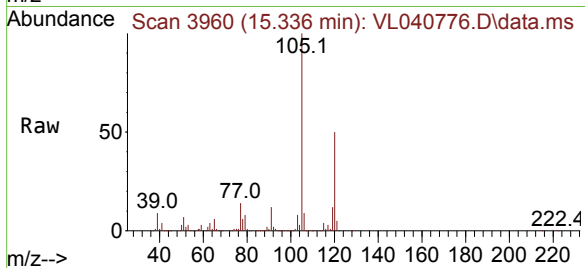
ClientSampleId :

Tgt Ion:105 Resp: 2810593

Ion Ratio Lower Upper

105 100

120 49.7 39.4 59.2



#74

1,2,4-Trimethylbenzene

Concen: 8.017 ppbv

RT: 16.095 min Scan# 4196

Delta R.T. -0.019 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Tgt Ion:105 Resp: 2982040

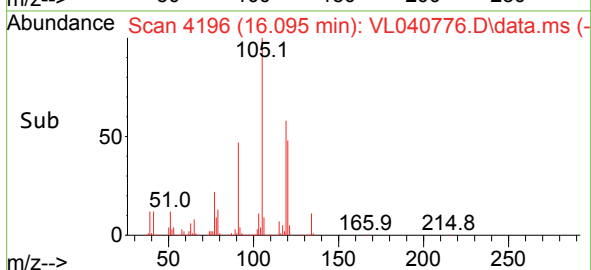
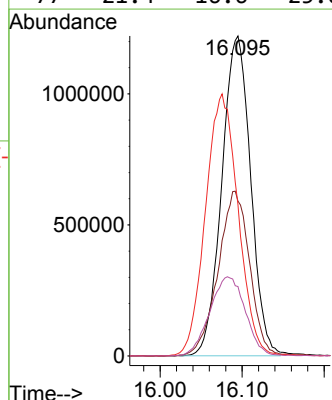
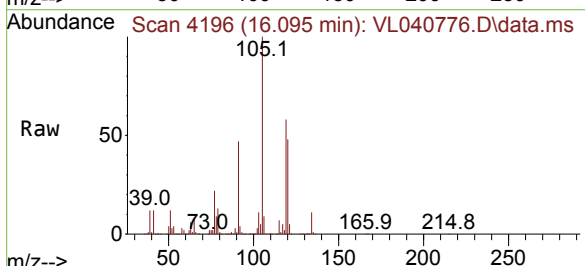
Ion Ratio Lower Upper

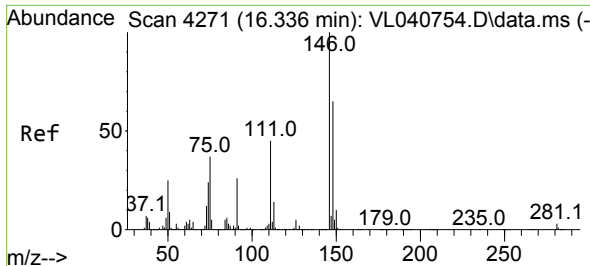
105 100

120 48.1 39.4 59.2

91 46.8 38.6 58.0

77 21.4 16.6 25.0

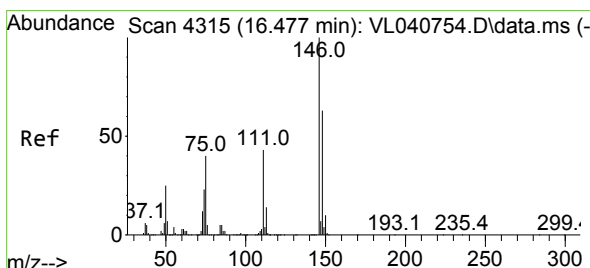
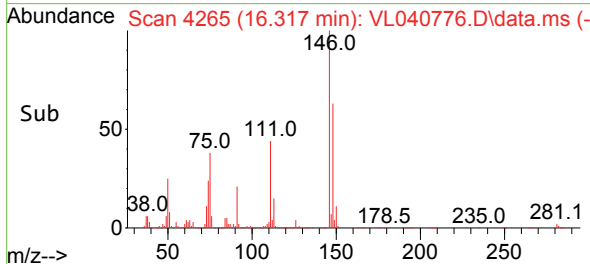
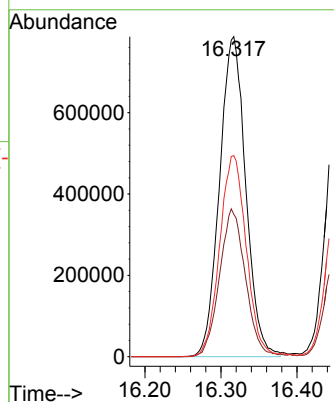
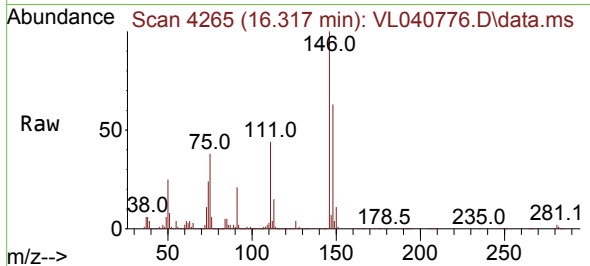




#75  
1,3-Dichlorobenzene  
Concen: 8.129 ppbv  
RT: 16.317 min Scan# 41  
Delta R.T. -0.019 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

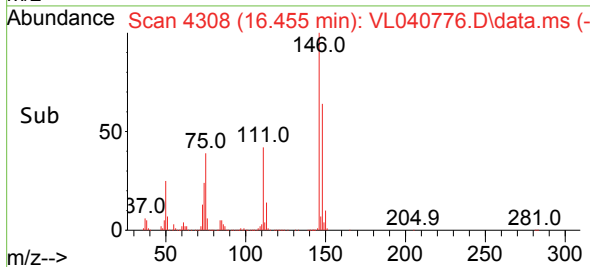
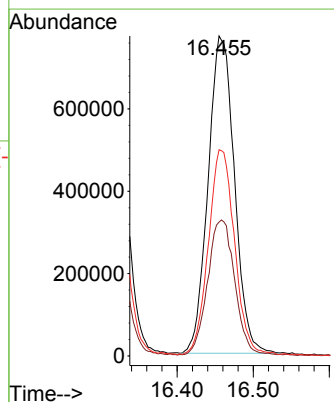
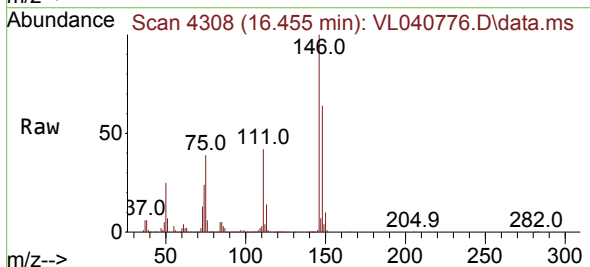
Instrument :  
MSVOA\_L  
ClientSampleId :

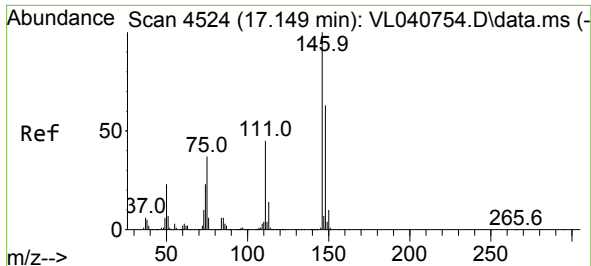
Tgt Ion:146 Resp: 1880615  
Ion Ratio Lower Upper  
146 100  
111 45.9 22.6 67.7  
148 64.2 32.4 97.0



#76  
1,4-Dichlorobenzene  
Concen: 8.093 ppbv  
RT: 16.455 min Scan# 4308  
Delta R.T. -0.022 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

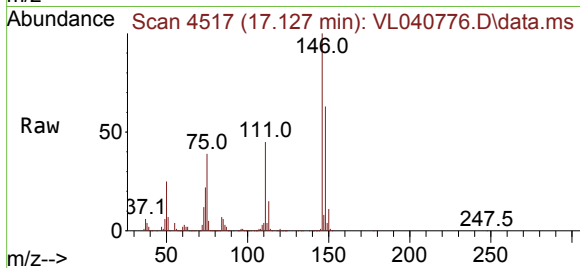
Tgt Ion:146 Resp: 1854064  
Ion Ratio Lower Upper  
146 100  
111 44.9 22.0 66.0  
148 65.6 33.4 100.1



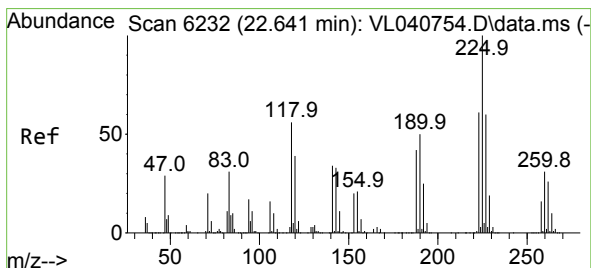
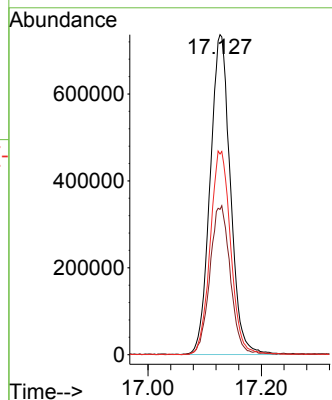
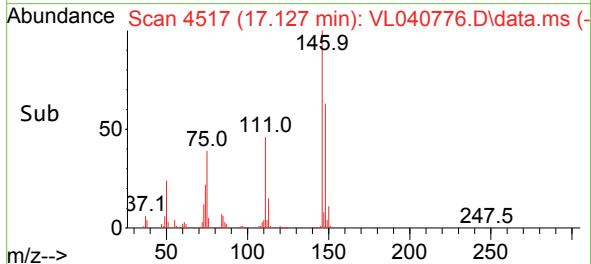


#77  
1,2-Dichlorobenzene  
Concen: 8.025 ppbv  
RT: 17.127 min Scan# 4517  
Delta R.T. -0.022 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Instrument :  
MSVOA\_L  
ClientSampleId :

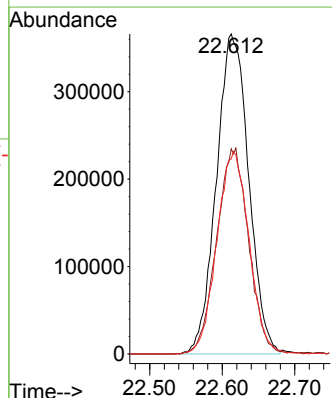
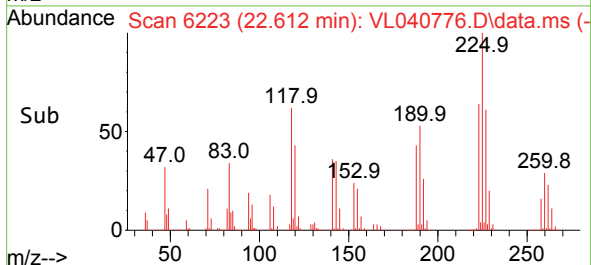
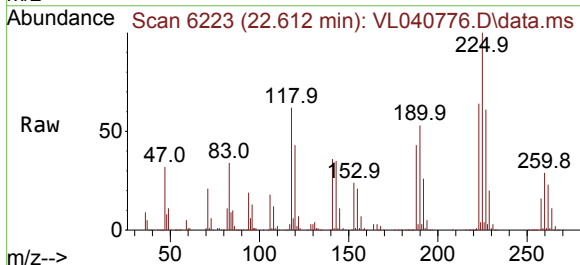


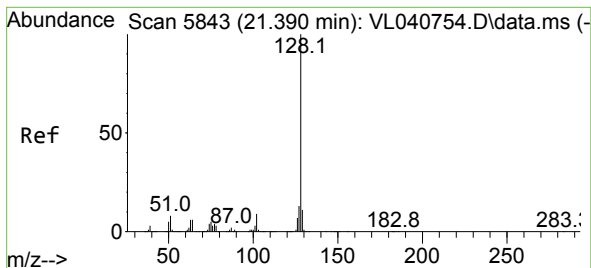
Tgt Ion:146 Resp: 1821527  
Ion Ratio Lower Upper  
146 100  
111 47.5 22.9 68.8  
148 64.5 32.3 96.8



#78  
Hexachloro-1,3-Butadiene  
Concen: 6.983 ppbv  
RT: 22.612 min Scan# 6223  
Delta R.T. -0.029 min  
Lab File: VL040776.D  
Acq: 23 Oct 2023 12:50

Tgt Ion:225 Resp: 1134200  
Ion Ratio Lower Upper  
225 100  
223 63.9 50.7 76.1  
227 63.2 51.4 77.0





#79

Naphthalene

Concen: 9.382 ppbv

RT: 21.368 min Scan# 5836

Delta R.T. -0.022 min

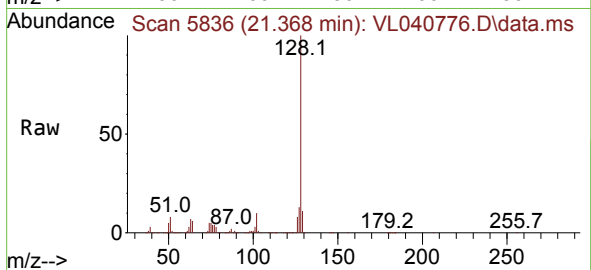
Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

Instrument :

MSVOA\_L

ClientSampleId :



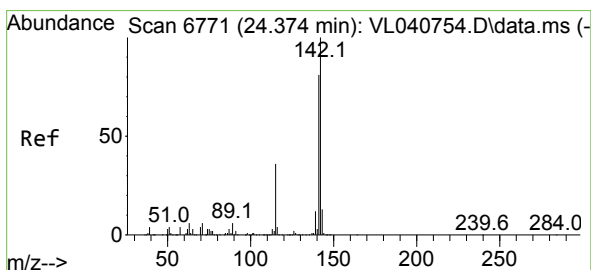
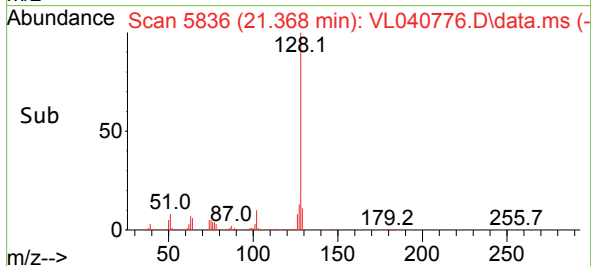
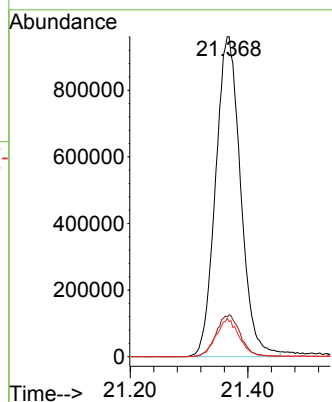
Tgt Ion:128 Resp: 2836716

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 11.0 9.0 13.4



#80

Naphthalene,2-methyl-

Concen: 10.033 ppbv

RT: 24.355 min Scan# 6765

Delta R.T. -0.019 min

Lab File: VL040776.D

Acq: 23 Oct 2023 12:50

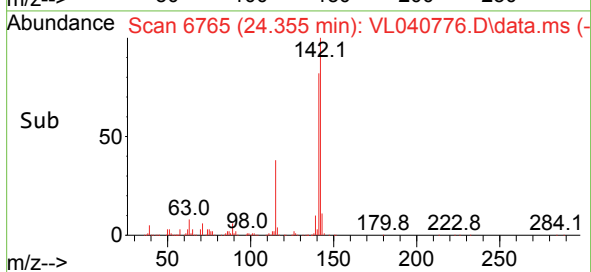
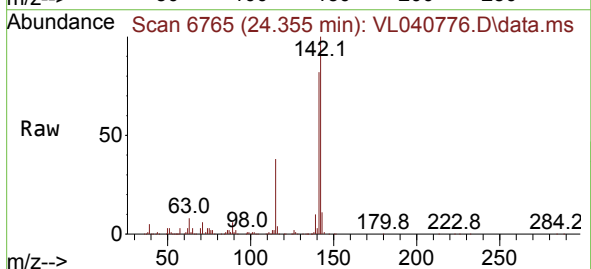
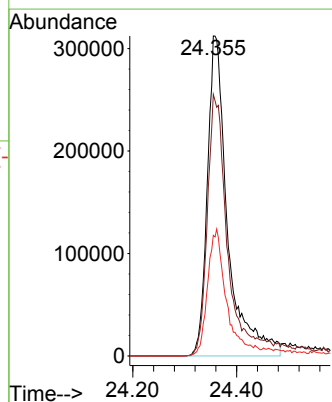
Tgt Ion:142 Resp: 851317

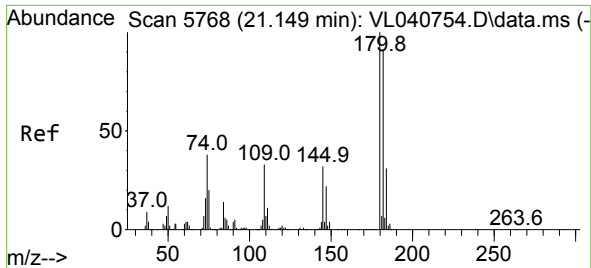
Ion Ratio Lower Upper

142 100

141 83.8 66.3 99.5

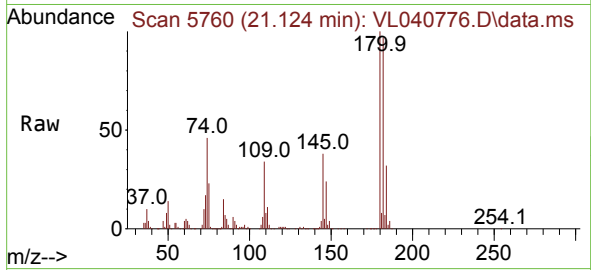
115 39.0 30.0 45.0





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.441 ppbv  
 RT: 21.124 min Scan# 51  
 Delta R.T. -0.026 min  
 Lab File: VL040776.D  
 Acq: 23 Oct 2023 12:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion:180 Resp: 1385614  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.3  | 77.9  | 116.9 |
| 184 | 30.7  | 25.0  | 37.6  |

