

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111423\  
 Data File : VL040851.D  
 Acq On : 14 Nov 2023 15:18  
 Operator : SY/MD  
 Sample : 05399-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

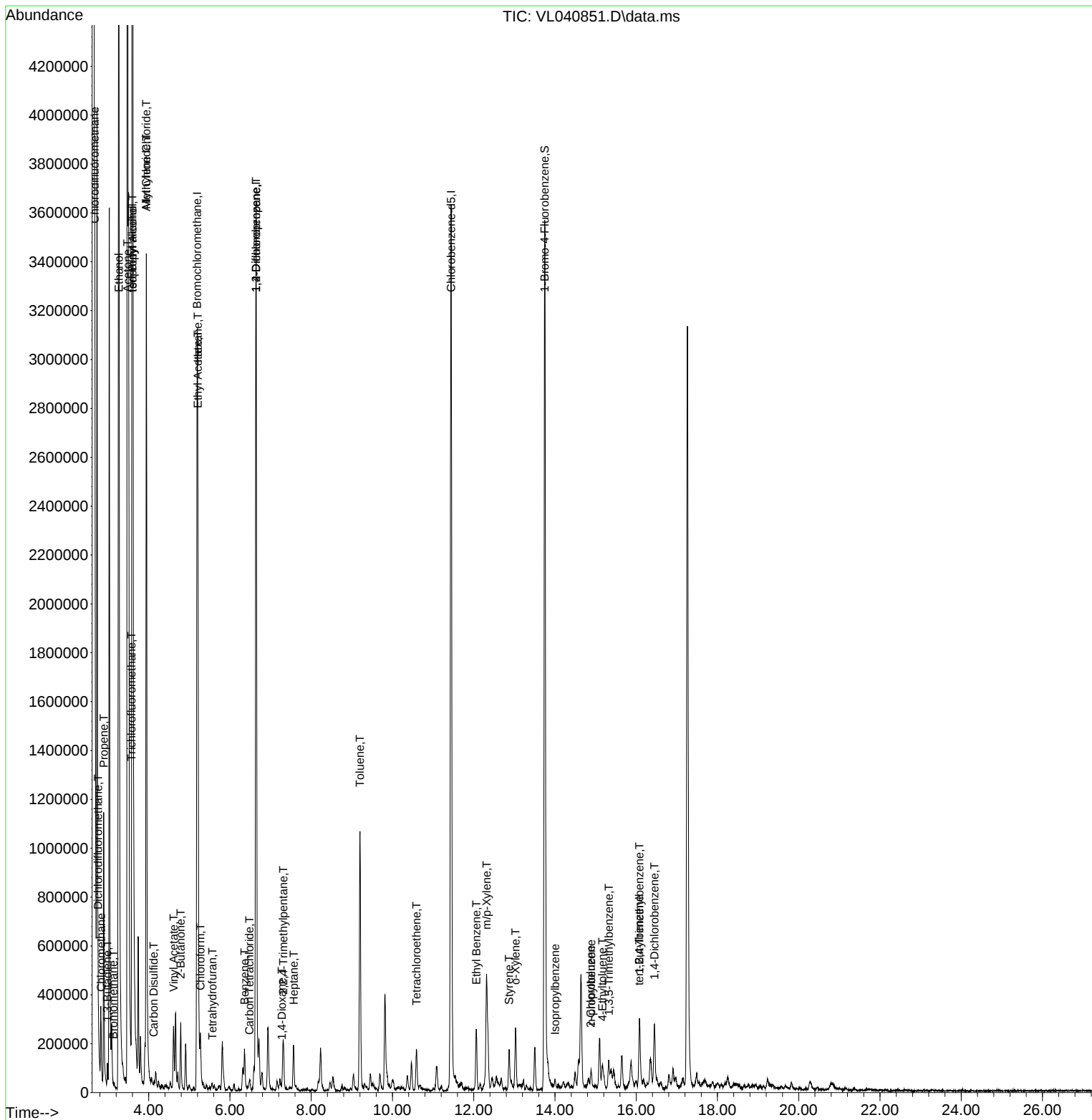
Quant Time: Nov 16 04:48:24 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111323AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Nov 13 15:42:46 2023  
 Response via : Initial Calibration

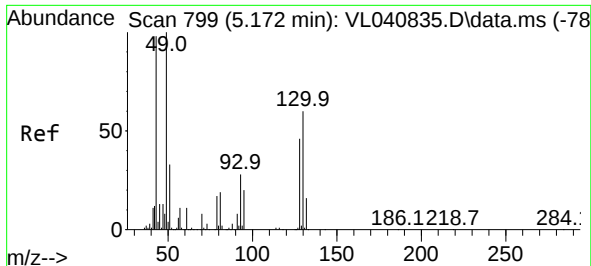
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.192  | 49    | 1071806  | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 6.642  | 114   | 2754327  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 11.442 | 117   | 2409227  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.748 | 95    | 1842404  | 9.768    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.755  | 85    | 97224    | 0.447    | ppbv   | 95       |
| 3) Chlorodifluoromethane    | 2.674  | 51    | 725922   | 4.242    | ppbv # | 61       |
| 4) Chloromethane            | 2.832  | 50    | 62384    | 1.014    | ppbv   | 96       |
| 6) Bromomethane             | 3.131  | 94    | 821      | 0.035    | ppbv # | 25       |
| 9) Propene                  | 2.893  | 41    | 245823   | 4.263    | ppbv   | 93       |
| 10) Heptane                 | 7.568  | 43    | 77466    | 0.546    | ppbv   | 88       |
| 11) Trichlorofluoromethane  | 3.578  | 101   | 34352    | 0.206    | ppbv   | 93       |
| 13) Ethanol                 | 3.263  | 45    | 5788608  | 516.916  | ppbv # | 100      |
| 15) Acetone                 | 3.478  | 43    | 8474187  | 74.236   | ppbv   | 98       |
| 16) 1,3-Butadiene           | 2.980  | 39    | 11482    | 0.199    | ppbv # | 11       |
| 17) tert-Butyl alcohol      | 3.600  | 59    | 409518   | 4.195    | ppbv   | 100      |
| 19) Isopropyl Alcohol       | 3.600  | 45    | 9891755  | 143.990  | ppbv # | 97       |
| 20) Methylene Chloride      | 3.941  | 84    | 1089721  | 23.132   | ppbv   | 97       |
| 21) Allyl Chloride          | 3.944  | 41    | 44897    | 0.615    | ppbv # | 31       |
| 23) Vinyl Acetate           | 4.620  | 43    | 131383   | 0.891    | ppbv # | 32       |
| 25) Ethyl Acetate           | 5.211  | 43    | 772329   | 3.268    | ppbv # | 92       |
| 26) Hexane                  | 5.208  | 57    | 785752   | 7.511    | ppbv # | 51       |
| 27) Carbon Disulfide        | 4.128  | 76    | 7347     | 0.055    | ppbv # | 61       |
| 29) Chloroform              | 5.275  | 83    | 116160   | 0.655    | ppbv   | 99       |
| 34) 2-Butanone              | 4.790  | 43    | 291865   | 2.080    | ppbv   | 99       |
| 35) Carbon Tetrachloride    | 6.481  | 117   | 13478    | 0.080    | ppbv   | 88       |
| 36) Benzene                 | 6.359  | 78    | 111769   | 0.500    | ppbv   | 96       |
| 39) 1,2-Dichloropropane     | 6.642  | 63    | 680920   | 7.683    | ppbv # | 22       |
| 40) 1,4-Dioxane             | 7.275  | 88    | 1711     | 0.049    | ppbv # | 1        |
| 41) Tetrahydrofuran         | 5.568  | 42    | 3676     | 0.043    | ppbv # | 1        |
| 44) 2,2,4-Trimethylpentane  | 7.311  | 57    | 170468   | 0.459    | ppbv # | 85       |
| 52) Tetrachloroethene       | 10.594 | 164   | 28907    | 0.384    | ppbv   | 92       |
| 53) Toluene                 | 9.201  | 91    | 811365   | 3.298    | ppbv   | 99       |
| 58) Ethyl Benzene           | 12.063 | 91    | 223483   | 0.711    | ppbv   | 97       |
| 59) m/p-Xylene              | 12.317 | 91    | 498251   | 1.861    | ppbv   | 97       |
| 60) o-Xylene                | 13.031 | 91    | 198011   | 0.777    | ppbv   | 99       |
| 61) Styrene                 | 12.873 | 104   | 88001    | 0.716    | ppbv   | 98       |
| 62) Isopropylbenzene        | 14.005 | 105   | 12069    | 0.032    | ppbv # | 44       |
| 64) n-propylbenzene         | 14.892 | 120   | 3920     | 0.042    | ppbv # | 1        |
| 65) tert-Butylbenzene       | 16.072 | 119   | 10245    | 0.032    | ppbv # | 18       |
| 71) 2-Chlorotoluene         | 14.883 | 91    | 29431    | 0.103    | ppbv # | 46       |
| 72) 4-Ethyltoluene          | 15.166 | 105   | 66599    | 0.238    | ppbv # | 90       |
| 73) 1,3,5-Trimethylbenzene  | 15.323 | 105   | 73948    | 0.298    | ppbv # | 84       |
| 74) 1,2,4-Trimethylbenzene  | 16.079 | 105   | 203411   | 0.736    | ppbv # | 60       |
| 76) 1,4-Dichlorobenzene     | 16.449 | 146   | 6385     | 0.044    | ppbv # | 22       |

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

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Nov 16 04:48:24 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL111323AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Mon Nov 13 15:42:46 2023  
Response via : Initial Calibration

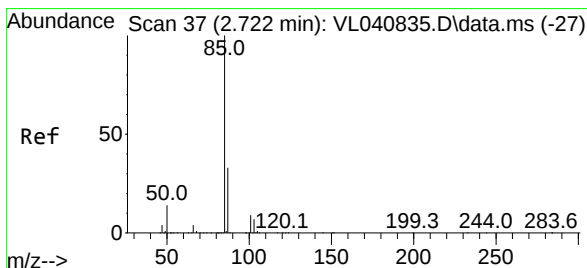
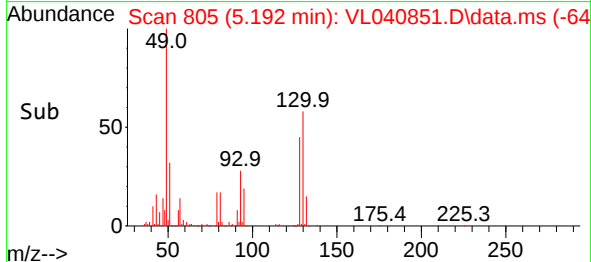
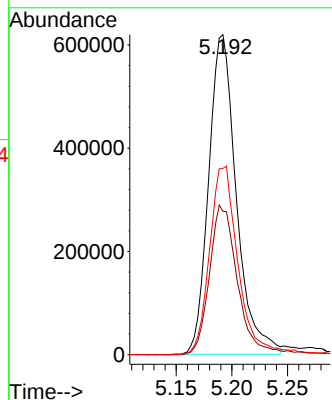
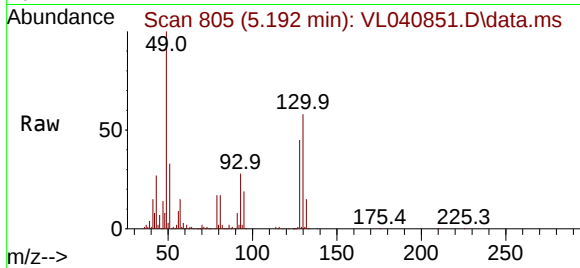




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.192 min Scan# 80  
Delta R.T. 0.020 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

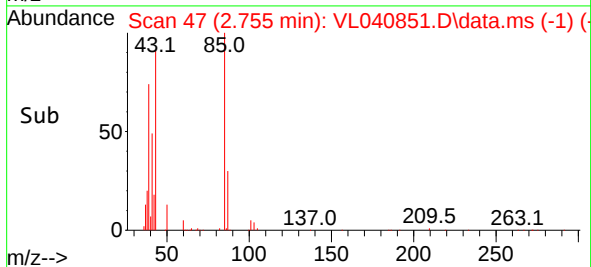
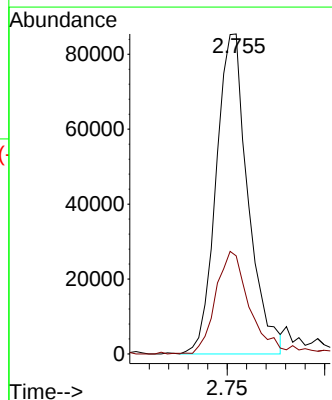
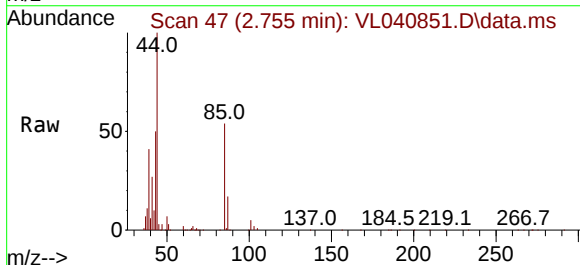
Instrument :  
MSVOA\_L  
ClientSampleId :

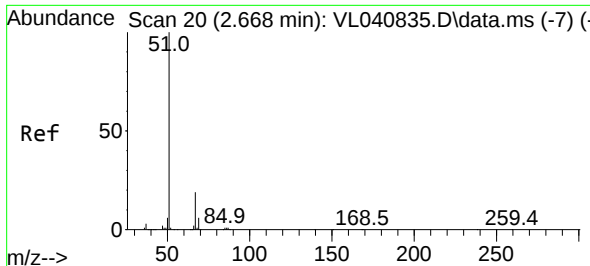
Tgt Ion: 49 Resp: 1071806  
Ion Ratio Lower Upper  
49 100  
128 48.5 23.8 71.2  
130 62.0 30.9 92.8



#2  
Dichlorodifluoromethane  
Concen: 0.447 ppbv  
RT: 2.755 min Scan# 47  
Delta R.T. 0.032 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 85 Resp: 97224  
Ion Ratio Lower Upper  
85 100  
87 30.4 26.7 40.1

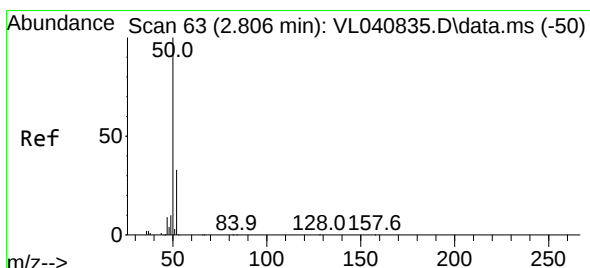
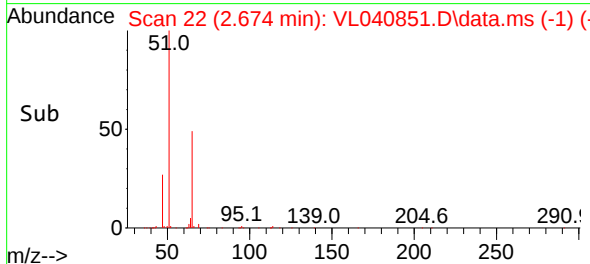
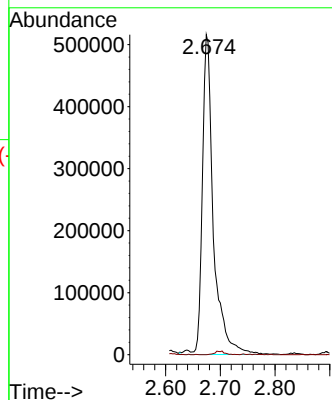
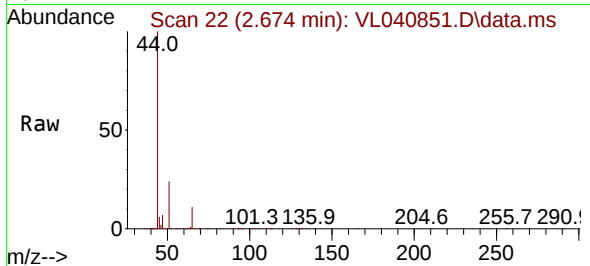




#3  
Chlorodifluoromethane  
Concen: 4.242 ppbv  
RT: 2.674 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

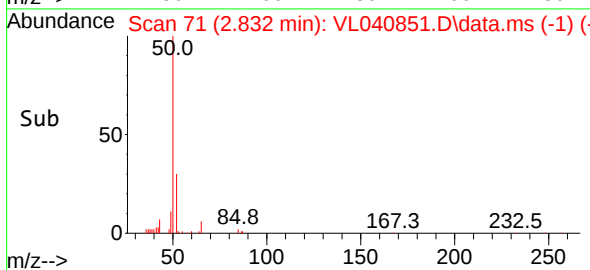
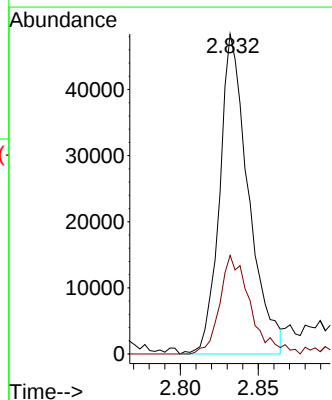
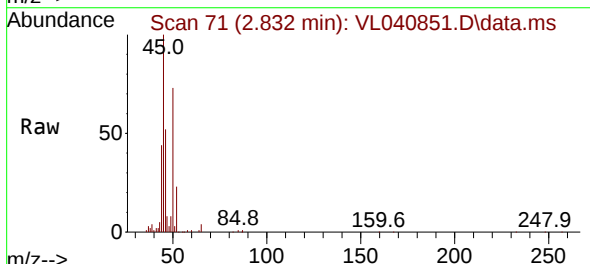
Instrument :  
MSVOA\_L  
ClientSampleId :

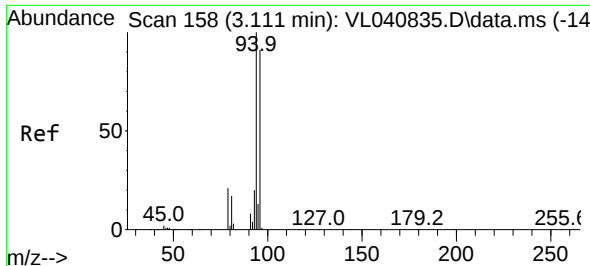
Tgt Ion: 51 Resp: 725922  
Ion Ratio Lower Upper  
51 100  
67 1.0 15.0 22.4#



#4  
Chloromethane  
Concen: 1.014 ppbv  
RT: 2.832 min Scan# 71  
Delta R.T. 0.026 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 50 Resp: 62384  
Ion Ratio Lower Upper  
50 100  
52 30.8 26.5 39.7

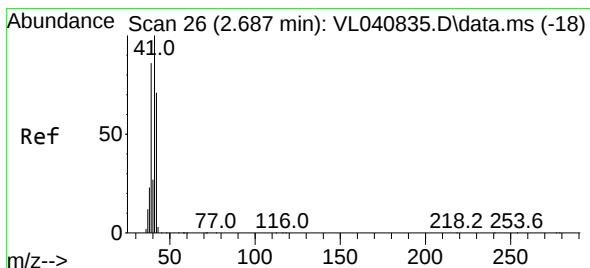
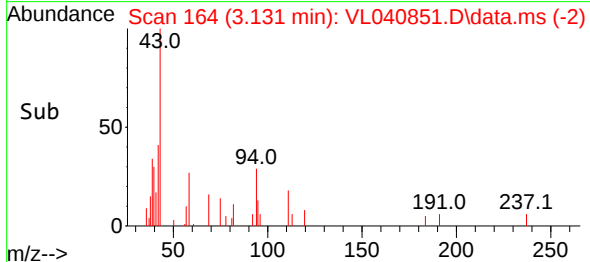
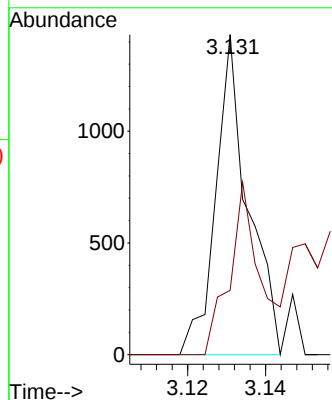
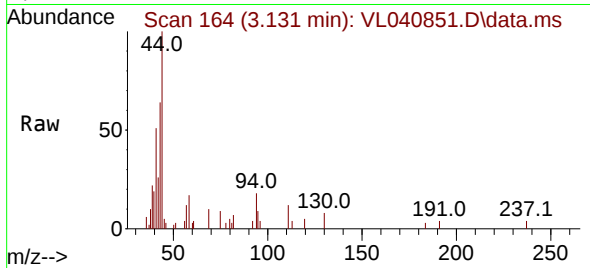




#6  
Bromomethane  
Concen: 0.035 ppbv  
RT: 3.131 min Scan# 10  
Delta R.T. 0.019 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

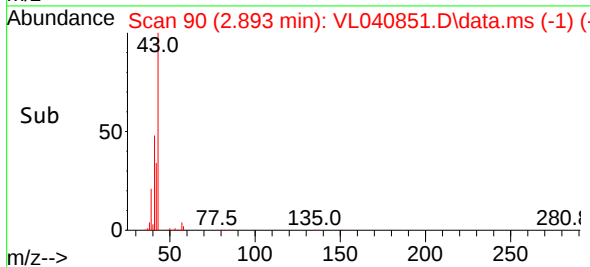
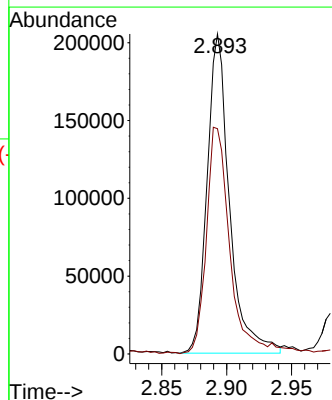
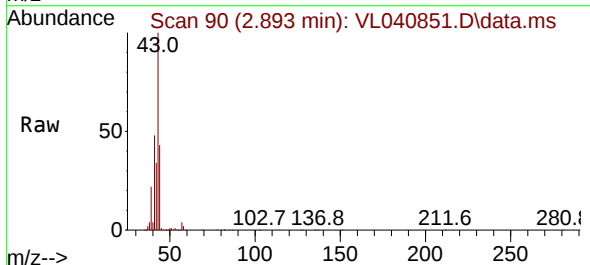
Instrument :  
MSVOA\_L  
ClientSampleId :

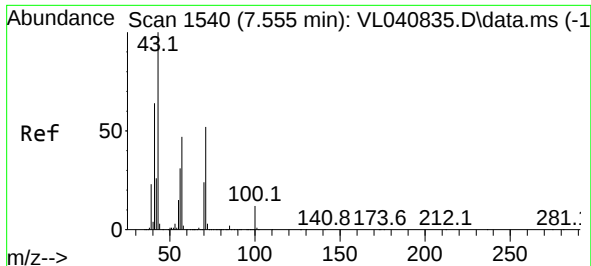
Tgt Ion: 94 Resp: 821  
Ion Ratio Lower Upper  
94 100  
96 20.1 73.0 109.4#



#9  
Propene  
Concen: 4.263 ppbv  
RT: 2.893 min Scan# 90  
Delta R.T. 0.206 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 41 Resp: 245823  
Ion Ratio Lower Upper  
41 100  
42 76.0 56.5 84.7





#10

Heptane

Concen: 0.546 ppbv

RT: 7.568 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

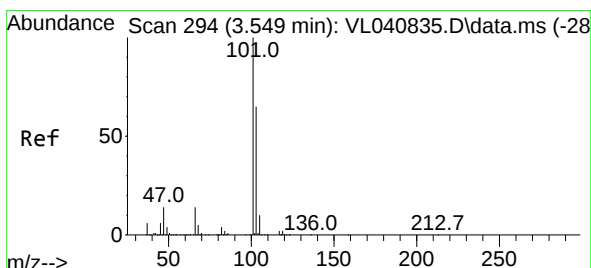
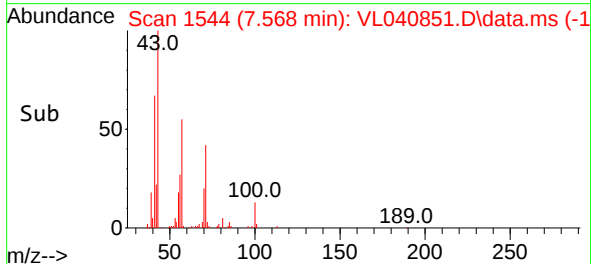
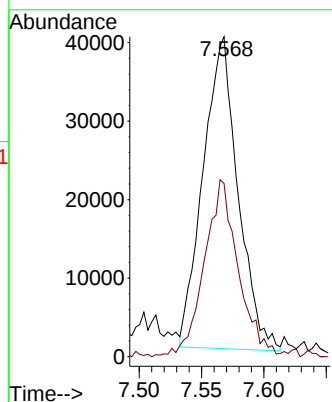
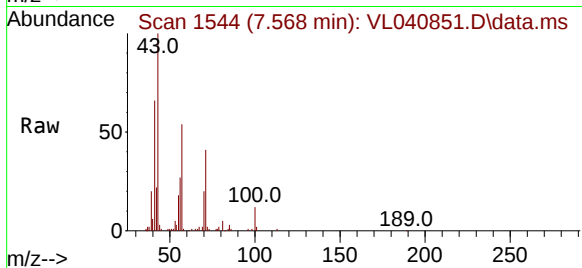
ClientSampleId :

Tgt Ion: 43 Resp: 77466

Ion Ratio Lower Upper

43 100

57 57.2 39.4 59.0



#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.029 min

Lab File: VL040851.D

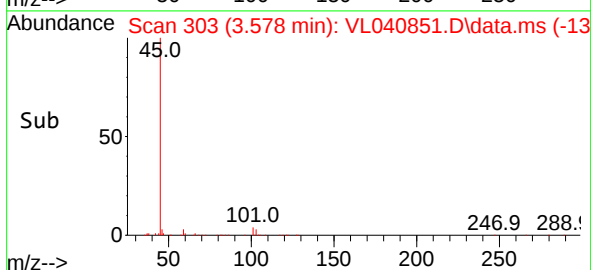
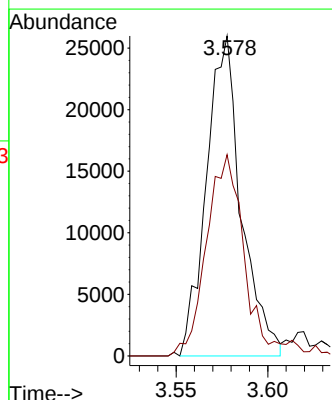
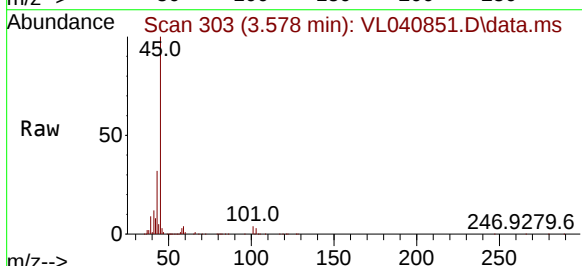
Acq: 14 Nov 2023 15:18

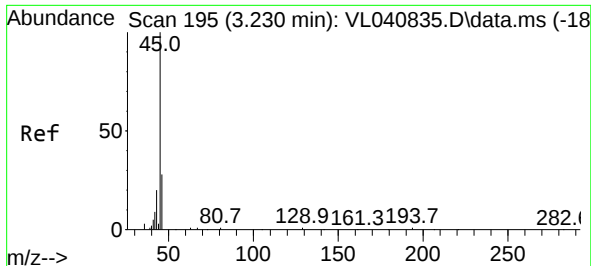
Tgt Ion:101 Resp: 34352

Ion Ratio Lower Upper

101 100

103 59.1 51.8 77.8

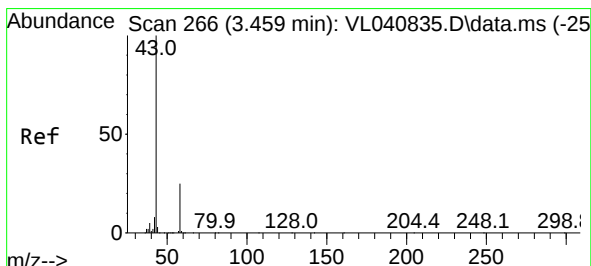
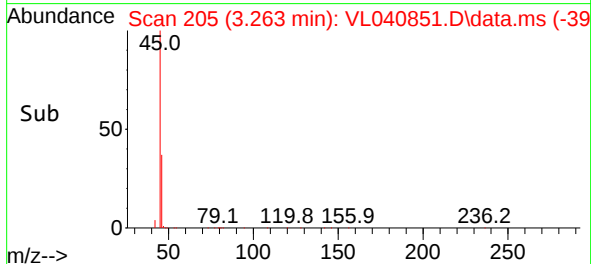
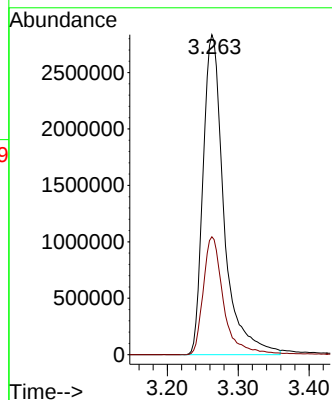
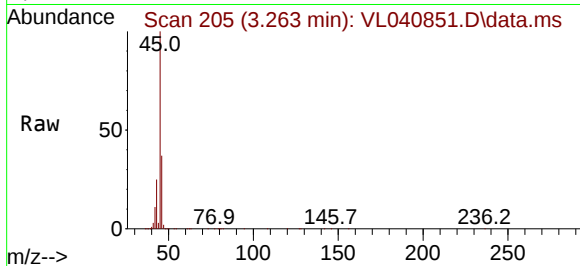




#13  
 Ethanol  
 Concen: 516.916 ppbv  
 RT: 3.263 min Scan# 205  
 Delta R.T. 0.032 min  
 Lab File: VL040851.D  
 Acq: 14 Nov 2023 15:18

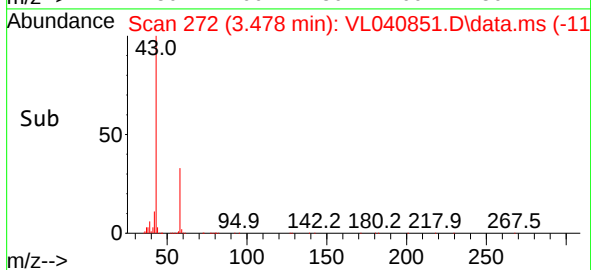
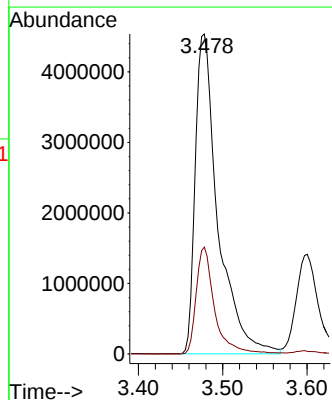
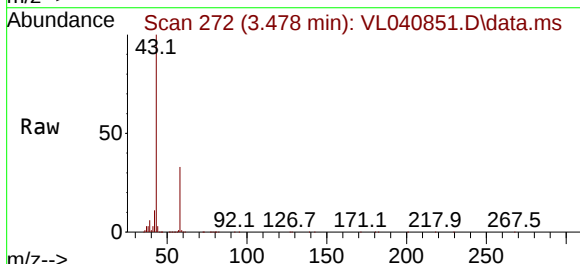
Instrument :  
 MSVOA\_L  
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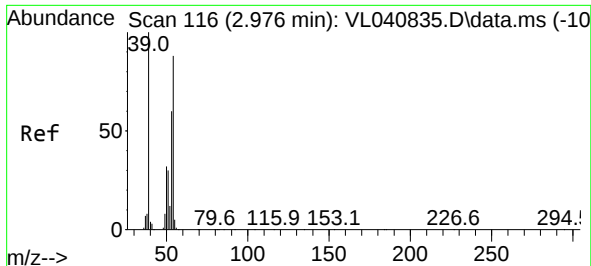
Tgt Ion: 45 Resp: 5788608  
 Ion Ratio Lower Upper  
 45 100  
 46 36.6 0.0 0.0#



#15  
 Acetone  
 Concen: 74.236 ppbv  
 RT: 3.478 min Scan# 272  
 Delta R.T. 0.019 min  
 Lab File: VL040851.D  
 Acq: 14 Nov 2023 15:18

Tgt Ion: 43 Resp: 8474187  
 Ion Ratio Lower Upper  
 43 100  
 58 27.3 20.9 31.3

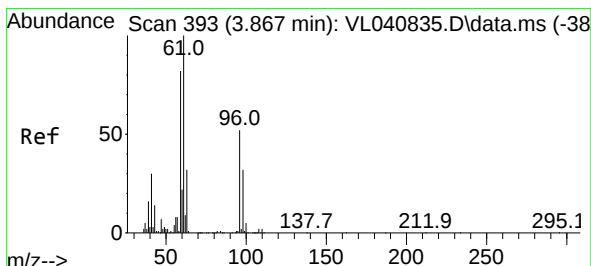
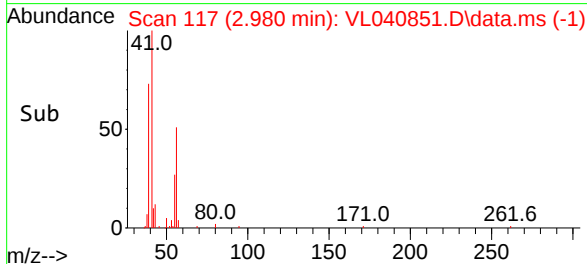
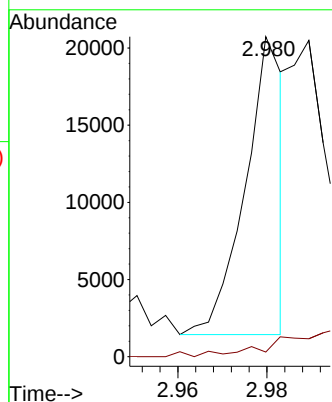
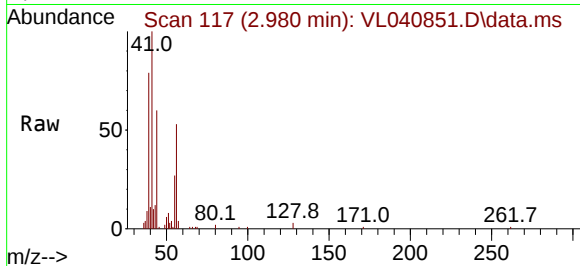




#16  
1,3-Butadiene  
Concen: 0.199 ppbv  
RT: 2.980 min Scan# 116  
Delta R.T. 0.003 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

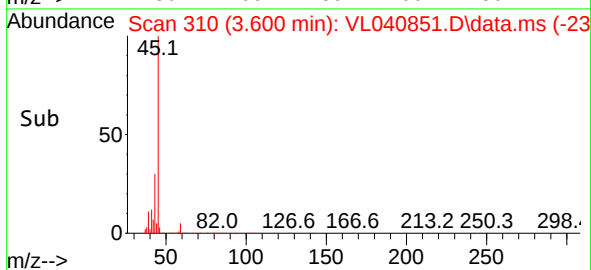
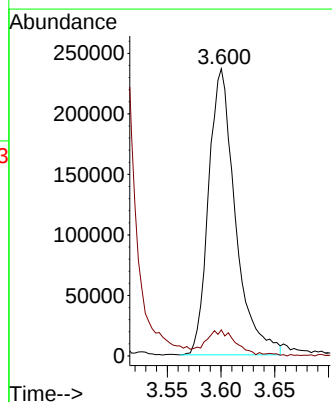
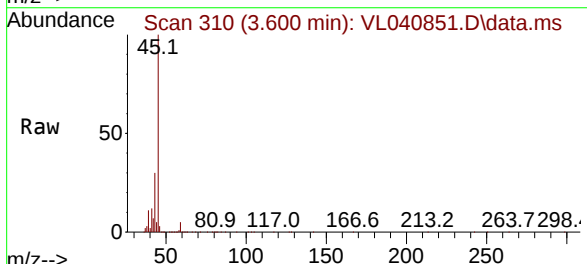
Instrument :  
MSVOA\_L  
ClientSampleId :

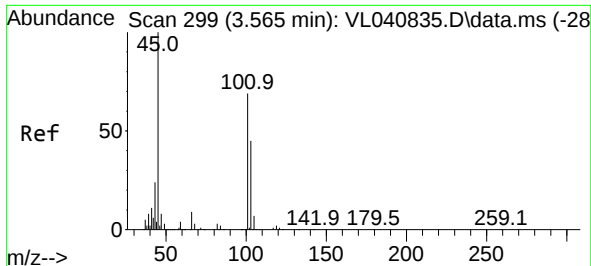
Tgt Ion: 39 Resp: 11482  
Ion Ratio Lower Upper  
39 100  
54 0.0 61.8 92.6#



#17  
tert-Butyl alcohol  
Concen: 4.195 ppbv  
RT: 3.600 min Scan# 310  
Delta R.T. -0.267 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 59 Resp: 409518  
Ion Ratio Lower Upper  
59 100  
57 11.0 9.0 13.4

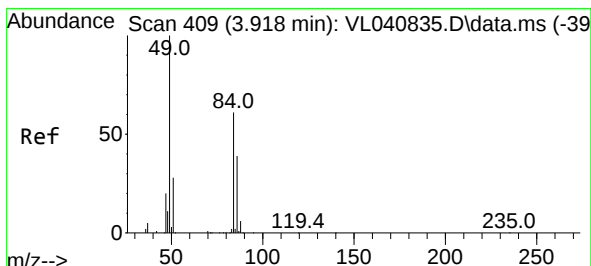
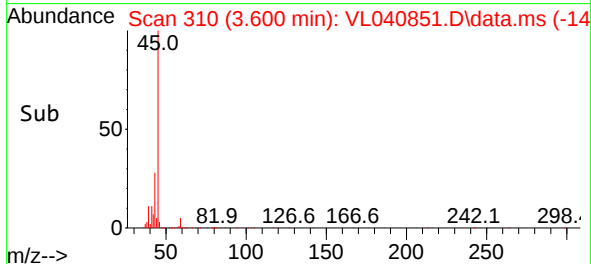
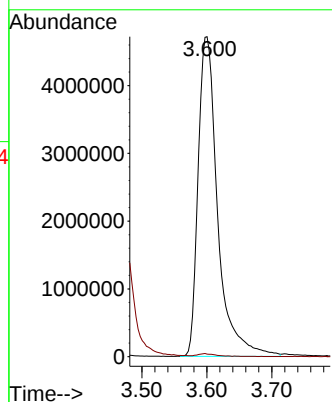
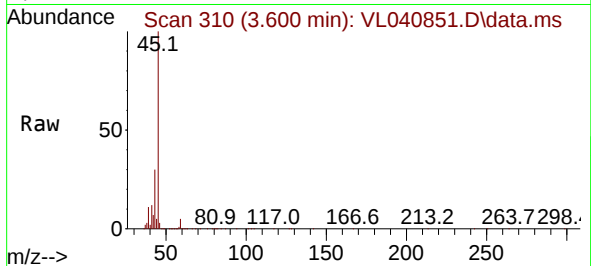




#19  
Isopropyl Alcohol  
Concen: 143.990 ppbv  
RT: 3.600 min Scan# 310  
Delta R.T. 0.035 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

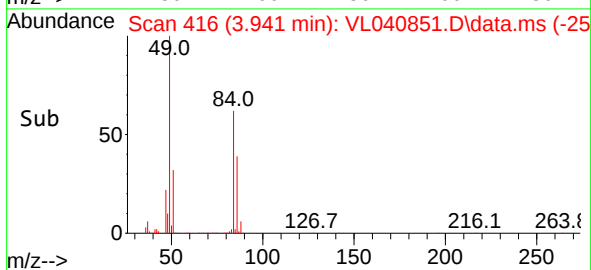
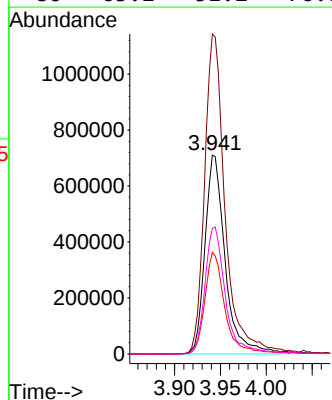
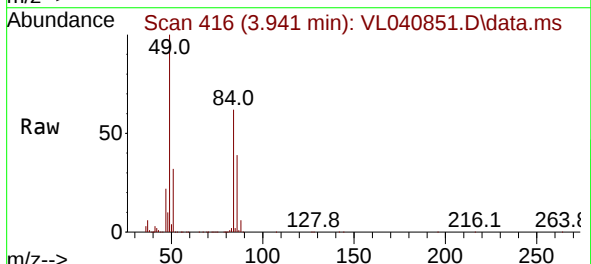
Instrument :  
MSVOA\_L  
ClientSampleId :

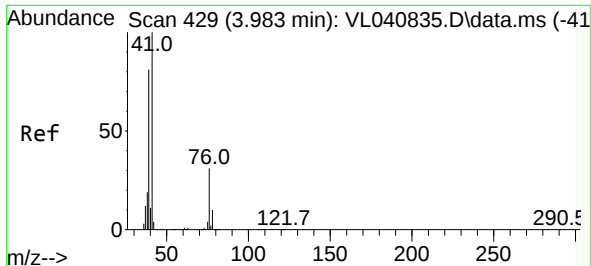
Tgt Ion: 45 Resp: 9891755  
Ion Ratio Lower Upper  
45 100  
58 1.0 1.6 2.4#



#20  
Methylene Chloride  
Concen: 23.132 ppbv  
RT: 3.941 min Scan# 416  
Delta R.T. 0.023 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 84 Resp: 1089721  
Ion Ratio Lower Upper  
84 100  
49 160.9 131.0 196.4  
51 51.0 36.9 55.3  
86 63.2 51.2 76.8





#21

Allyl Chloride

Concen: 0.615 ppbv

RT: 3.944 min Scan# 41

Delta R.T. -0.038 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

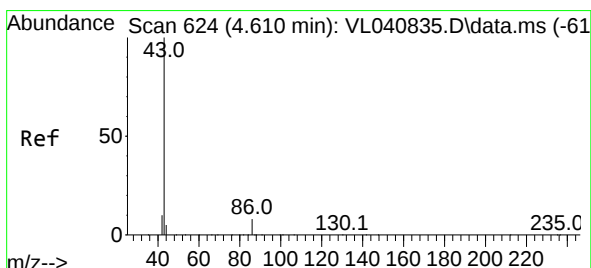
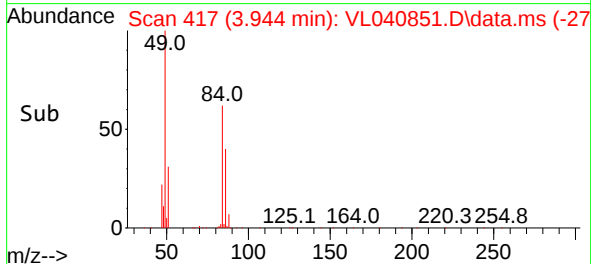
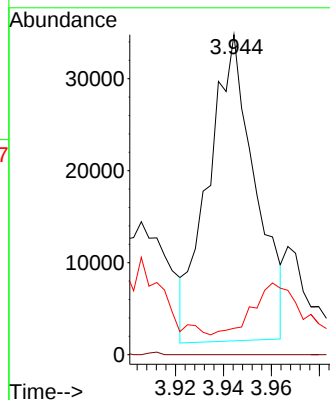
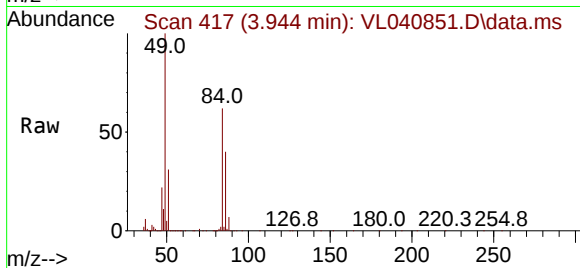
Tgt Ion: 41 Resp: 44897

Ion Ratio Lower Upper

41 100

76 32.1 24.4 36.6

39 0.0 68.1 102.1#



#23

Vinyl Acetate

Concen: 0.891 ppbv

RT: 4.620 min Scan# 627

Delta R.T. 0.010 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Tgt Ion: 43 Resp: 131383

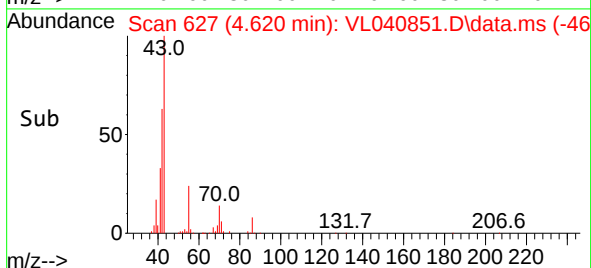
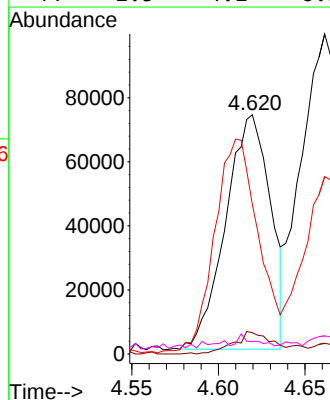
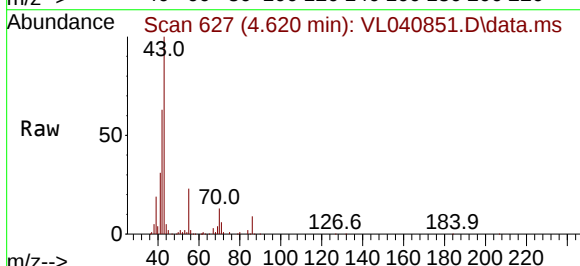
Ion Ratio Lower Upper

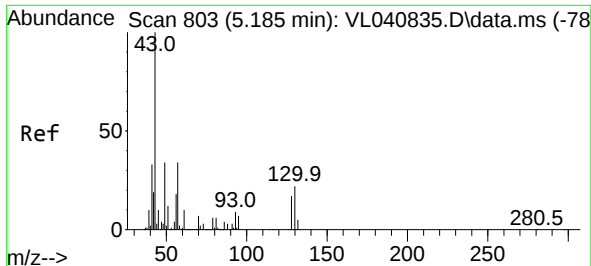
43 100

86 9.1 5.5 8.3#

42 62.0 8.2 12.2#

44 1.5 4.1 6.1#





#25

Ethyl Acetate

Concen: 3.268 ppbv

RT: 5.211 min Scan# 81

Delta R.T. 0.026 min

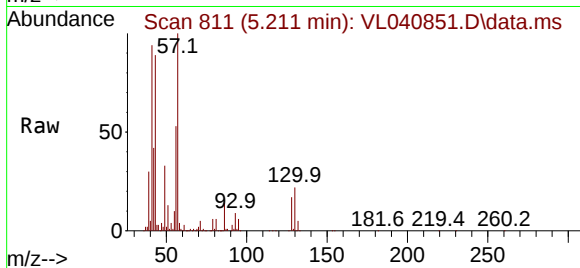
Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion: 43 Resp: 772329

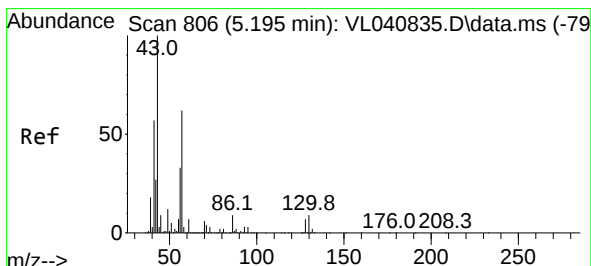
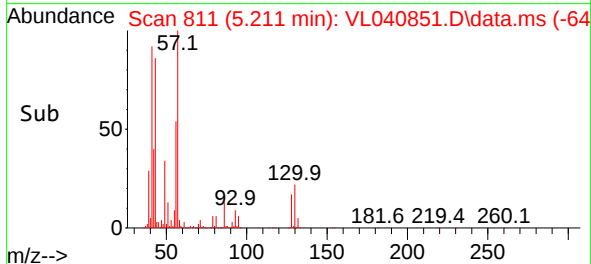
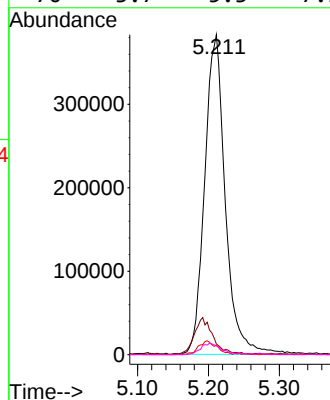
Ion Ratio Lower Upper

43 100

45 10.7 8.1 12.1

61 4.1 7.8 11.6#

70 3.7 5.3 7.9#



#26

Hexane

Concen: 7.511 ppbv

RT: 5.208 min Scan# 810

Delta R.T. 0.013 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Tgt Ion: 57 Resp: 785752

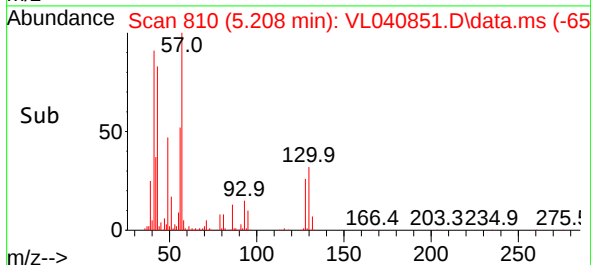
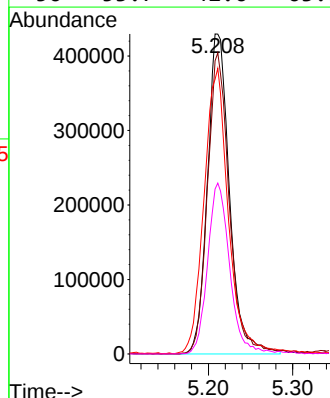
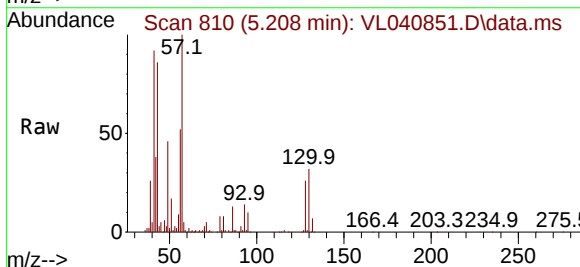
Ion Ratio Lower Upper

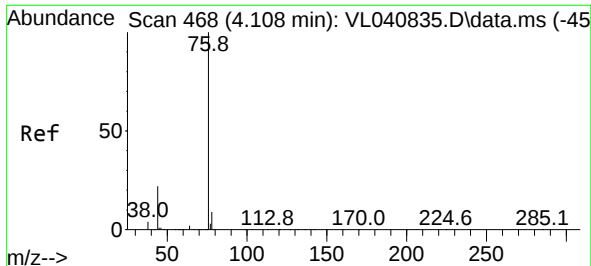
57 100

41 93.3 75.4 113.0

43 98.8 185.9 278.9#

56 53.7 42.6 63.8

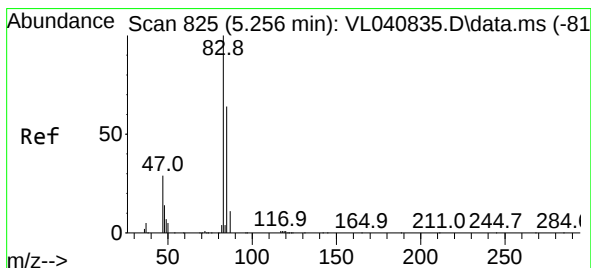
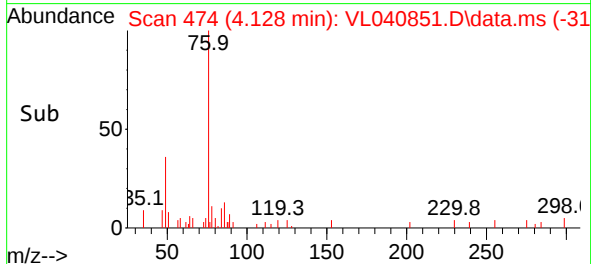
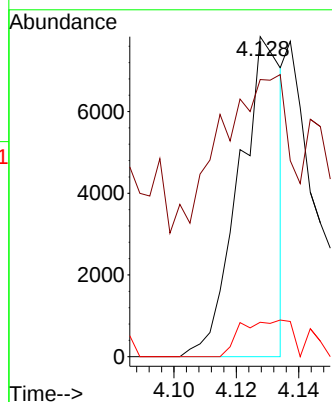
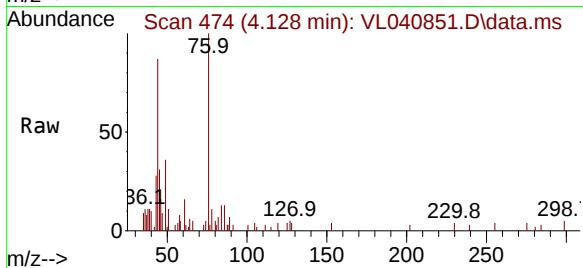




#27  
Carbon Disulfide  
Concen: 0.055 ppbv  
RT: 4.128 min Scan# 41  
Delta R.T. 0.019 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

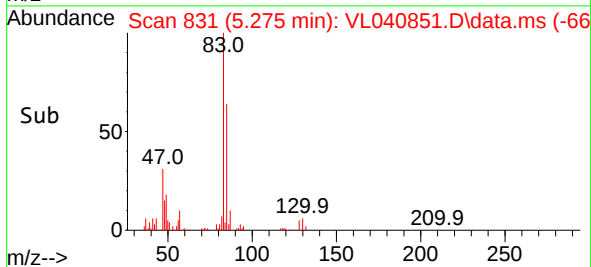
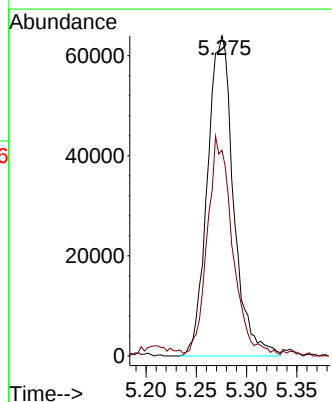
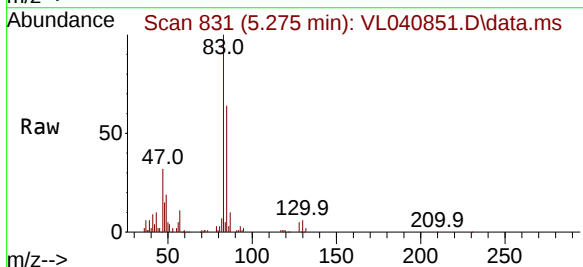
Instrument :  
MSVOA\_L  
ClientSampleId :

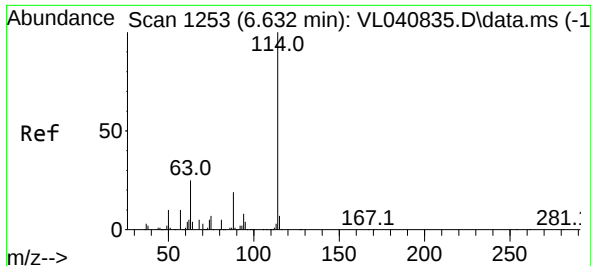
Tgt Ion: 76 Resp: 7347  
Ion Ratio Lower Upper  
76 100  
44 0.0 16.7 25.1#  
78 0.0 7.6 11.4#



#29  
Chloroform  
Concen: 0.655 ppbv  
RT: 5.275 min Scan# 831  
Delta R.T. 0.019 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 83 Resp: 116160  
Ion Ratio Lower Upper  
83 100  
85 63.7 51.4 77.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

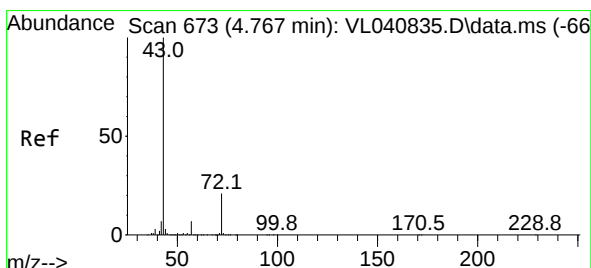
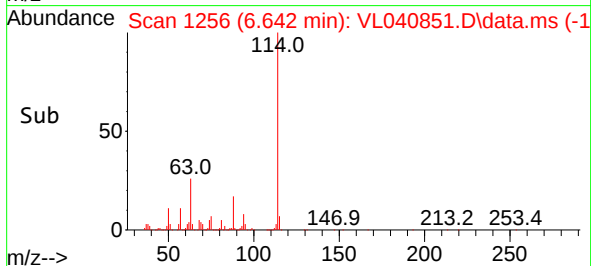
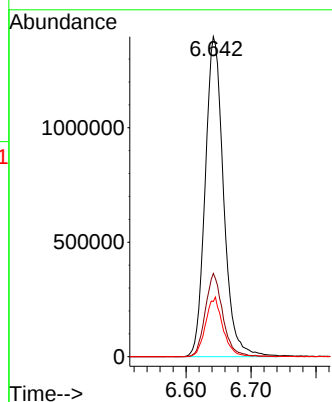
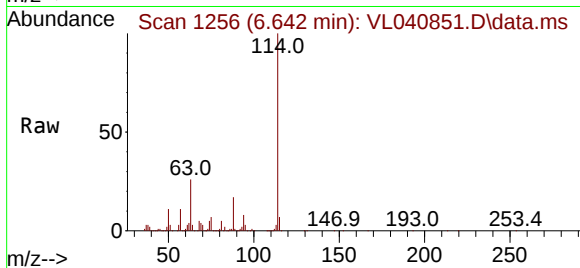
Tgt Ion:114 Resp: 2754327

Ion Ratio Lower Upper

114 100

63 25.1 20.9 31.3

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 2.080 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.023 min

Lab File: VL040851.D

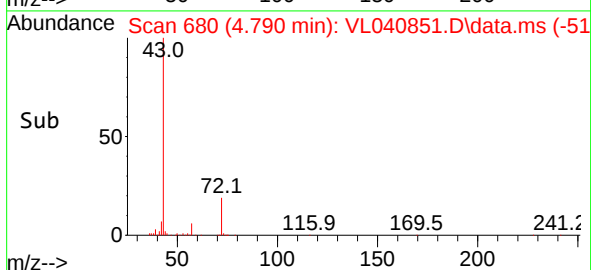
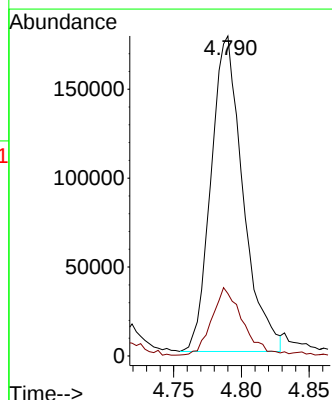
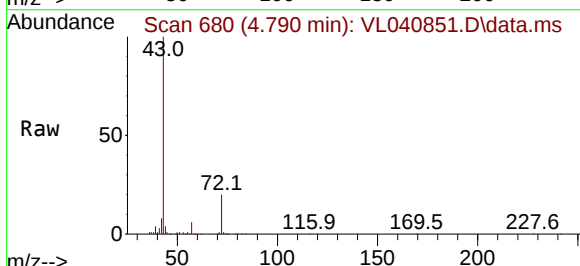
Acq: 14 Nov 2023 15:18

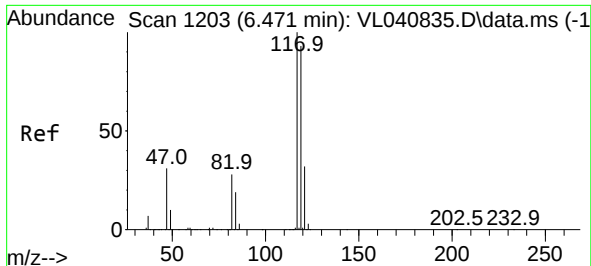
Tgt Ion: 43 Resp: 291865

Ion Ratio Lower Upper

43 100

72 22.2 17.2 25.8

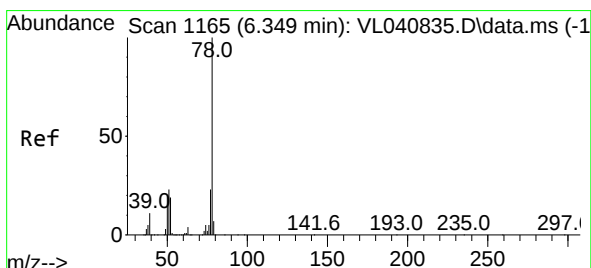
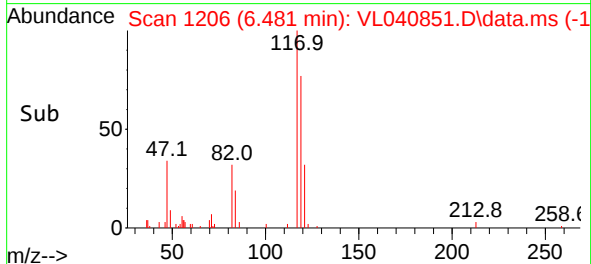
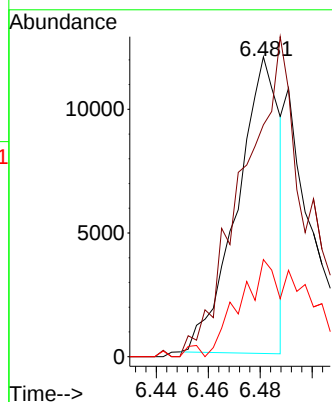
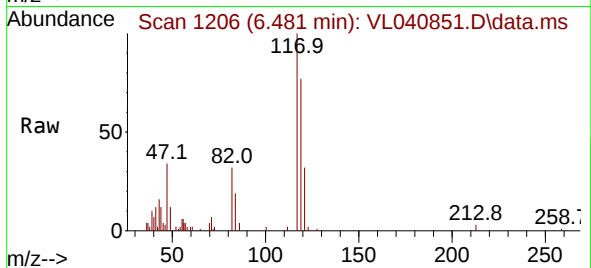




#35  
Carbon Tetrachloride  
Concen: 0.080 ppbv  
RT: 6.481 min Scan# 117  
Delta R.T. 0.010 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

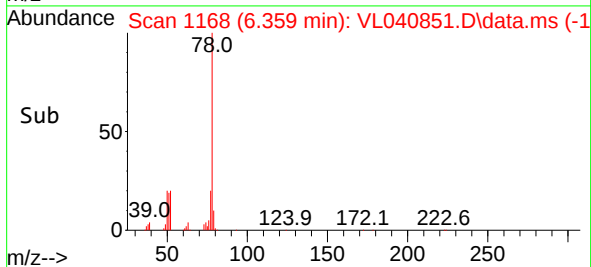
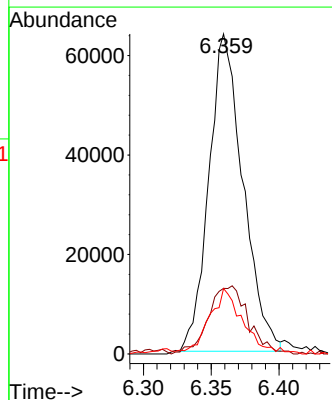
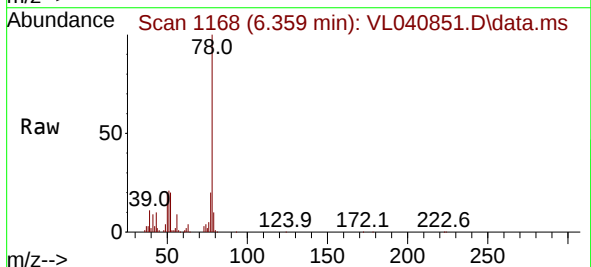
Instrument :  
MSVOA\_L  
ClientSampleId :

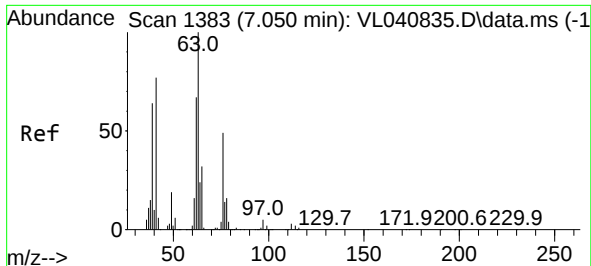
Tgt Ion:117 Resp: 13478  
Ion Ratio Lower Upper  
117 100  
119 78.6 74.7 112.1  
121 32.9 25.5 38.3



#36  
Benzene  
Concen: 0.500 ppbv  
RT: 6.359 min Scan# 1168  
Delta R.T. 0.010 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

Tgt Ion: 78 Resp: 111769  
Ion Ratio Lower Upper  
78 100  
77 20.2 18.4 27.6  
50 19.6 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.683 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.408 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

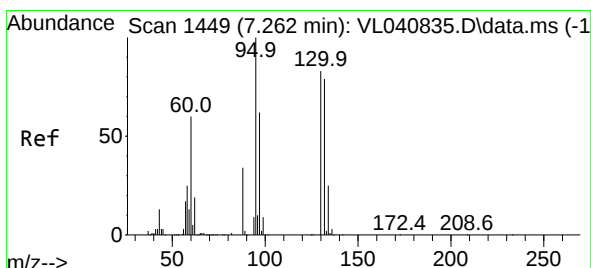
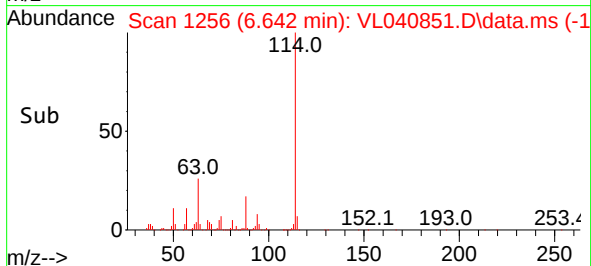
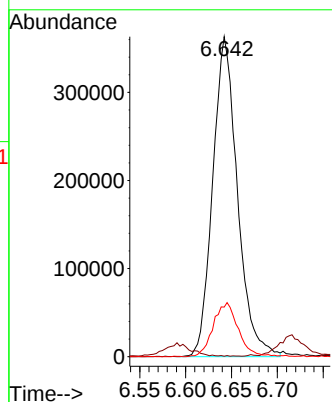
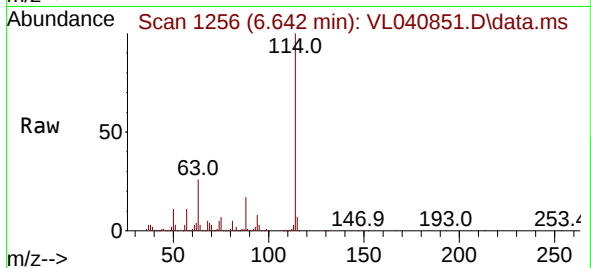
Tgt Ion: 63 Resp: 680920

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 15.4 53.9 80.9#



#40

1,4-Dioxane

Concen: 0.049 ppbv

RT: 7.275 min Scan# 1453

Delta R.T. 0.013 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Tgt Ion: 88 Resp: 1711

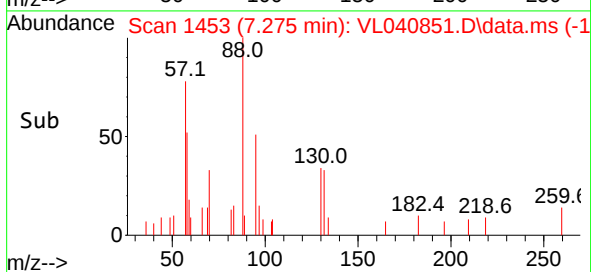
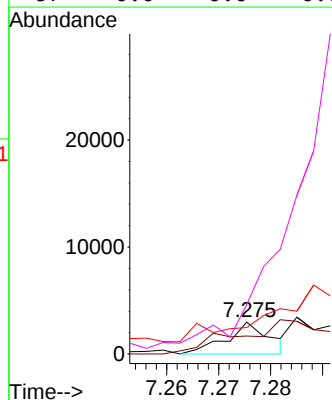
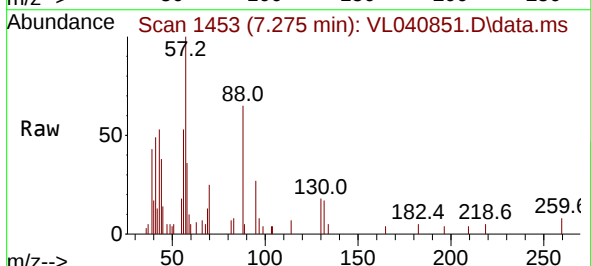
Ion Ratio Lower Upper

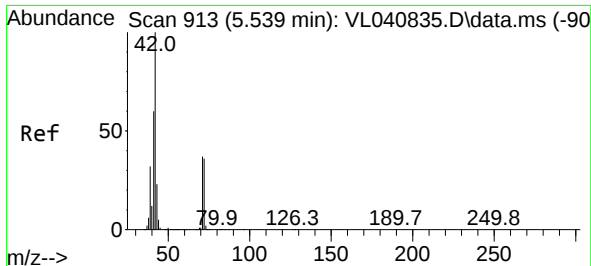
88 100

58 0.0 101.0 151.6#

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.043 ppbv

RT: 5.568 min Scan# 913

Delta R.T. 0.029 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

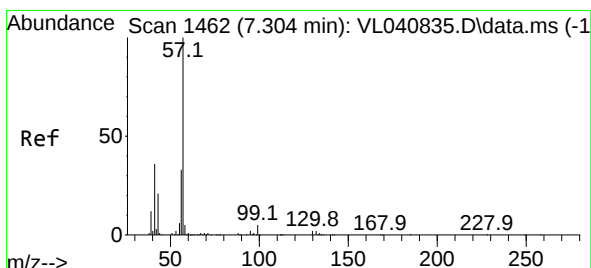
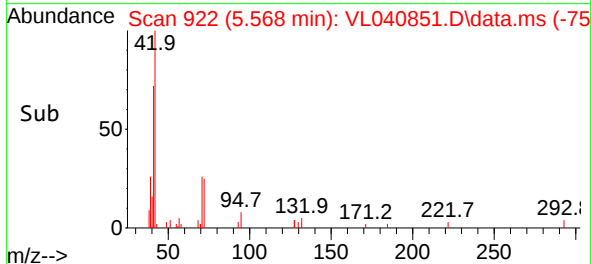
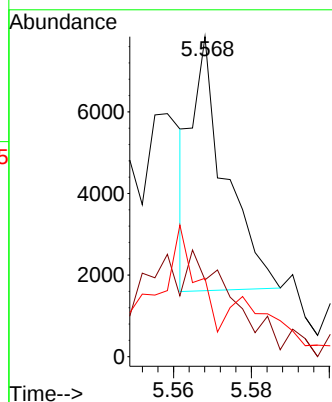
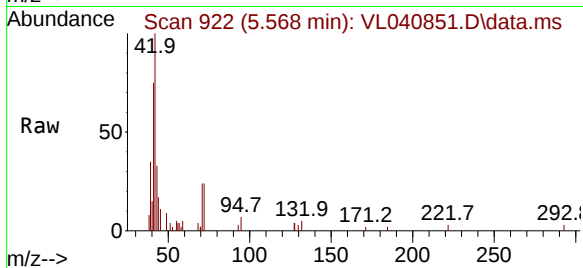
Tgt Ion: 42 Resp: 3676

Ion Ratio Lower Upper

42 100

72 135.6 30.8 46.2#

71 122.5 30.0 45.0#



#44

2,2,4-Trimethylpentane

Concen: 0.459 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.007 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

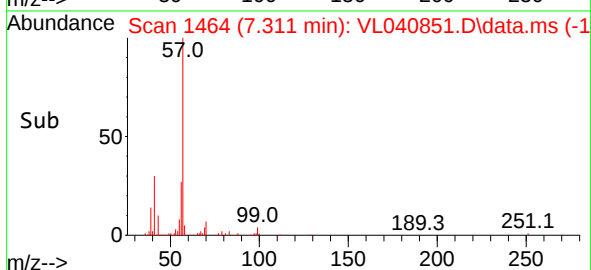
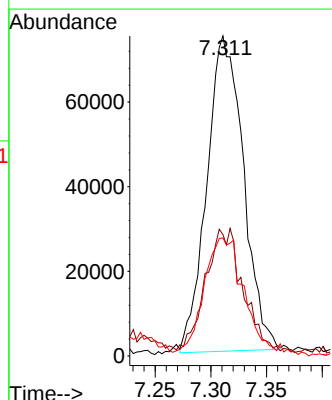
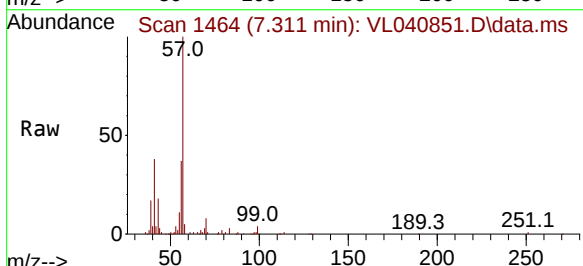
Tgt Ion: 57 Resp: 170468

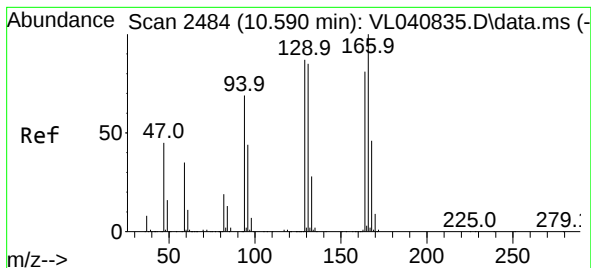
Ion Ratio Lower Upper

57 100

41 42.8 29.0 43.6

56 42.3 25.2 37.8#





#52

Tetrachloroethene

Concen: 0.384 ppbv

RT: 10.594 min Scan# 2484

Delta R.T. 0.003 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion:164 Resp: 28907

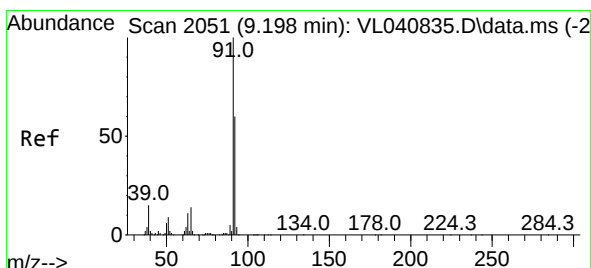
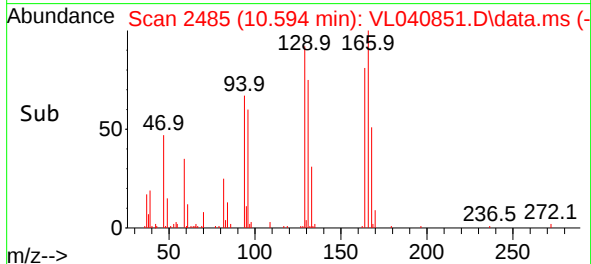
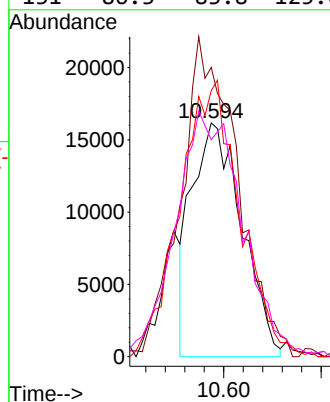
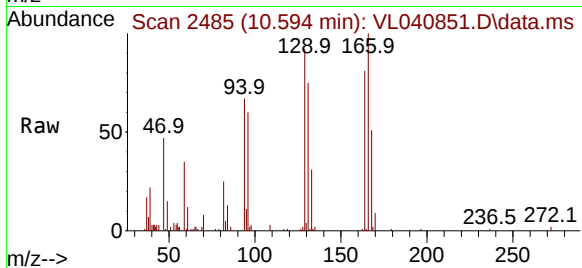
Ion Ratio Lower Upper

164 100

166 119.0 98.3 147.5

129 111.6 85.1 127.7

131 86.3 83.8 125.6



#53

Toluene

Concen: 3.298 ppbv

RT: 9.201 min Scan# 2052

Delta R.T. 0.003 min

Lab File: VL040851.D

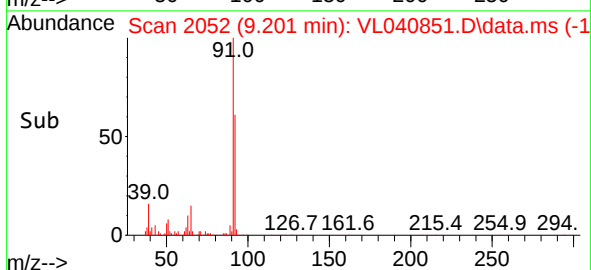
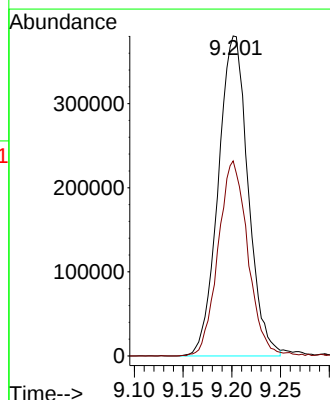
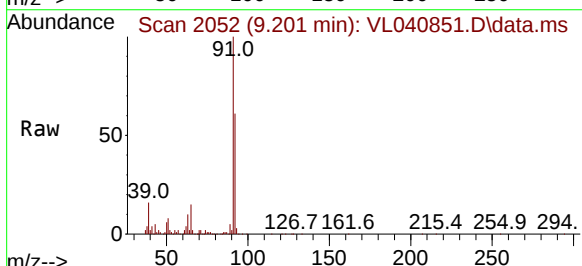
Acq: 14 Nov 2023 15:18

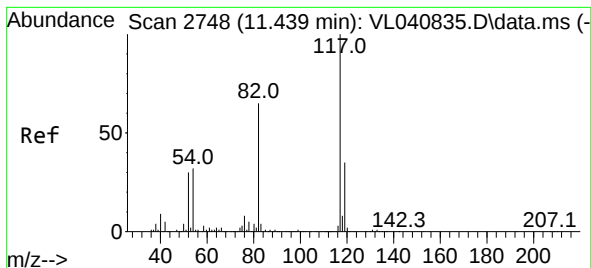
Tgt Ion: 91 Resp: 811365

Ion Ratio Lower Upper

91 100

92 61.0 49.4 74.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.442 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

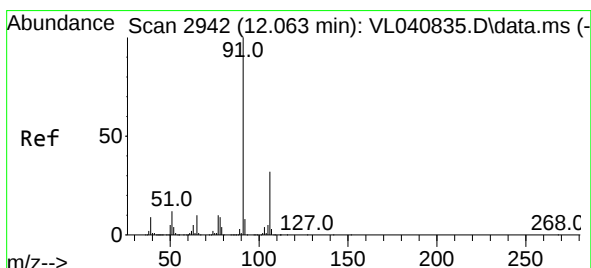
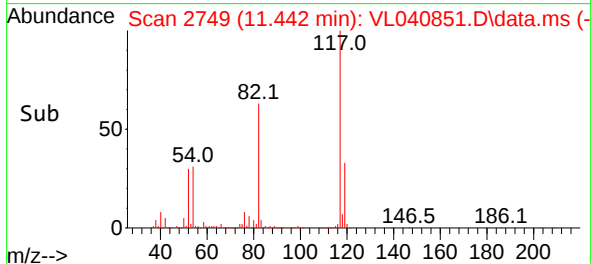
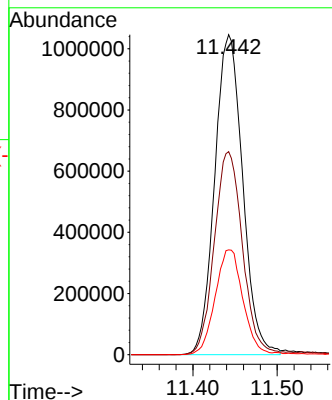
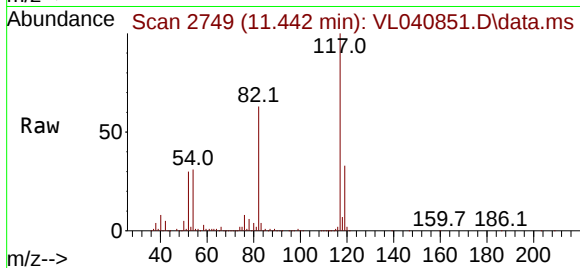
Tgt Ion:117 Resp: 2409227

Ion Ratio Lower Upper

117 100

82 64.2 50.6 75.8

119 33.0 23.3 34.9



#58

Ethyl Benzene

Concen: 0.711 ppbv

RT: 12.063 min Scan# 2942

Delta R.T. 0.000 min

Lab File: VL040851.D

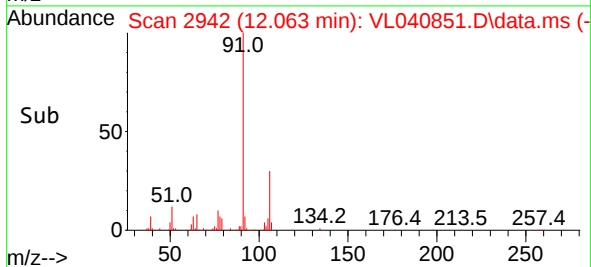
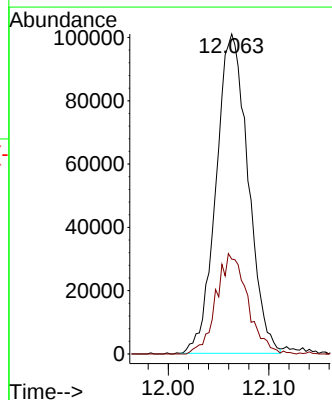
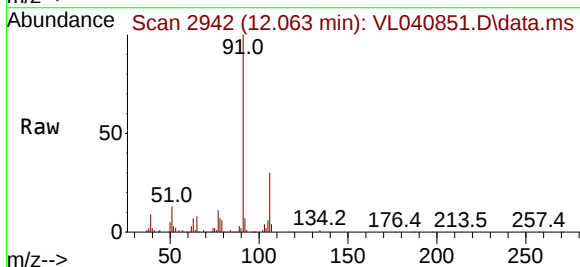
Acq: 14 Nov 2023 15:18

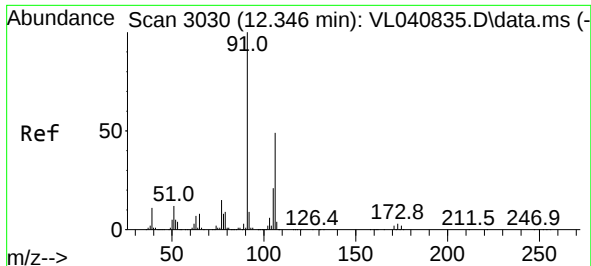
Tgt Ion: 91 Resp: 223483

Ion Ratio Lower Upper

91 100

106 29.7 25.2 37.8





#59

m/p-Xylene

Concen: 1.861 ppbv

RT: 12.317 min Scan# 3030

Delta R.T. -0.029 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

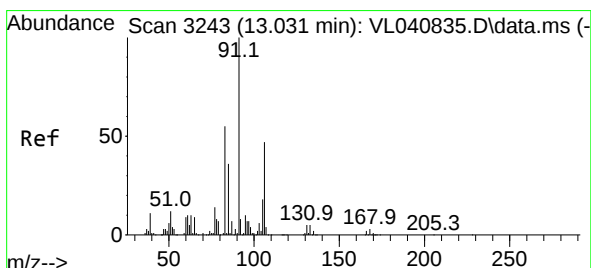
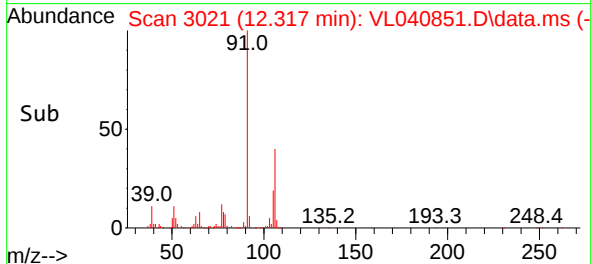
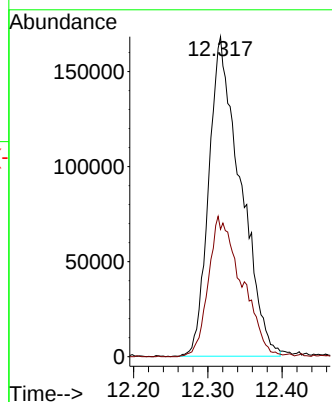
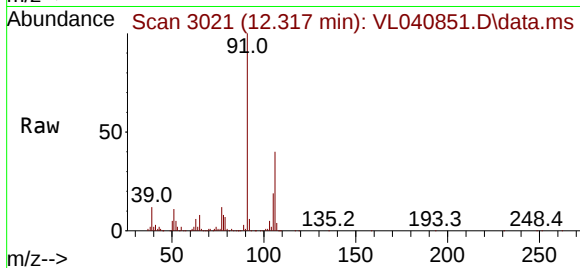
ClientSampleId :

Tgt Ion: 91 Resp: 498251

Ion Ratio Lower Upper

91 100

106 46.4 35.4 53.0



#60

o-Xylene

Concen: 0.777 ppbv

RT: 13.031 min Scan# 3243

Delta R.T. 0.000 min

Lab File: VL040851.D

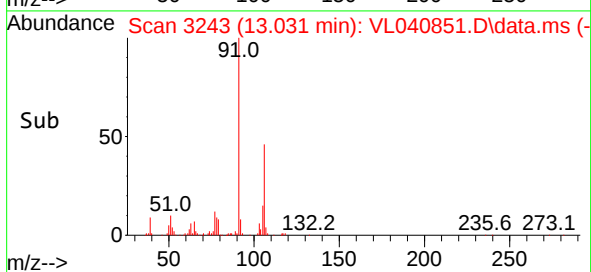
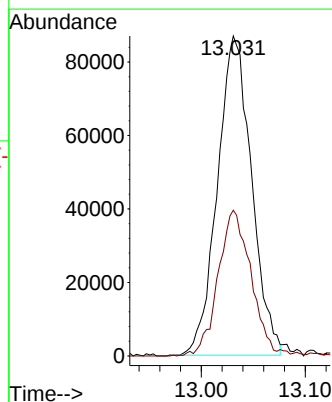
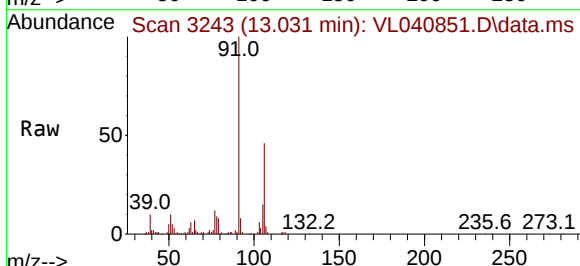
Acq: 14 Nov 2023 15:18

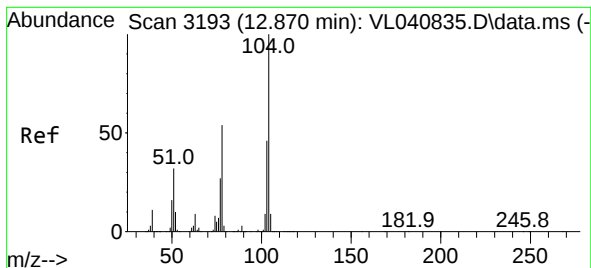
Tgt Ion: 91 Resp: 198011

Ion Ratio Lower Upper

91 100

106 44.8 22.9 68.5





#61

Styrene

Concen: 0.716 ppbv

RT: 12.873 min Scan# 3193

Delta R.T. 0.003 min

Lab File: VL040851.D

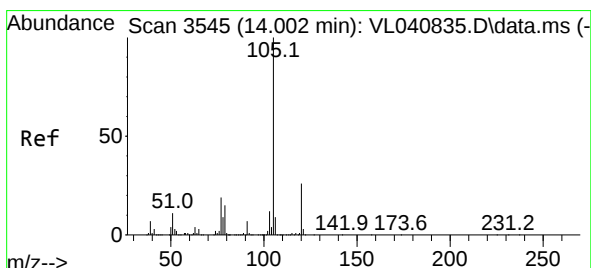
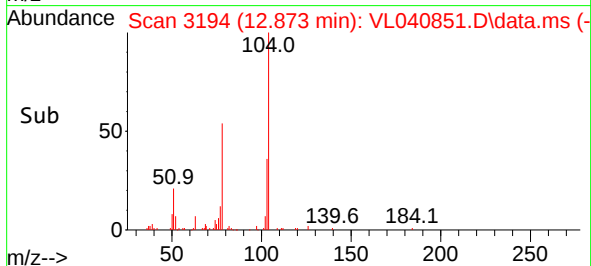
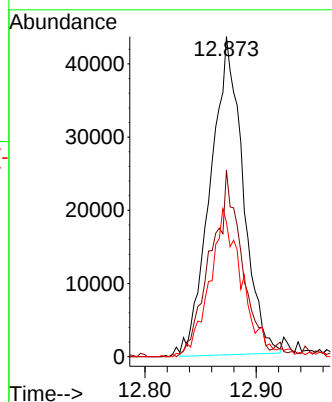
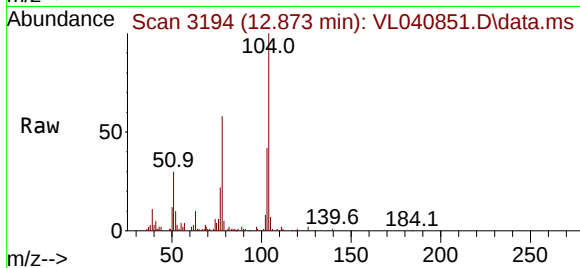
Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 88001     |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 57.0  | 43.3 64.9 |
| 103         | 47.5  | 37.6 56.4 |



#62

Isopropylbenzene

Concen: 0.032 ppbv

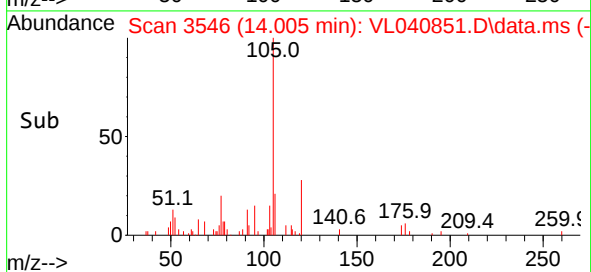
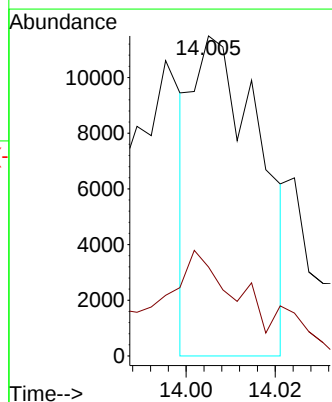
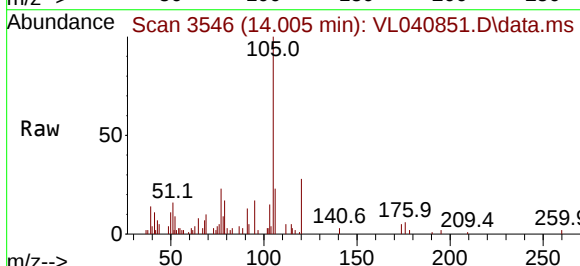
RT: 14.005 min Scan# 3546

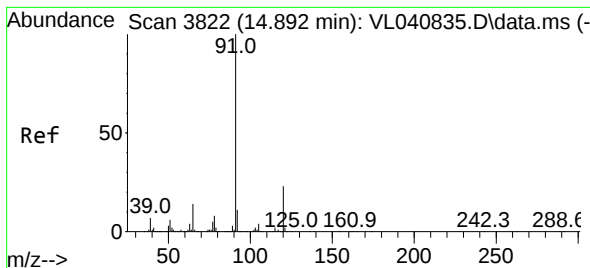
Delta R.T. 0.003 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:105 | Resp: | 12069      |
| Ion Ratio   | Lower | Upper      |
| 105         | 100   |            |
| 120         | 54.2  | 20.7 31.1# |





#64

n-propylbenzene

Concen: 0.042 ppbv

RT: 14.892 min Scan# 3822

Delta R.T. 0.000 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

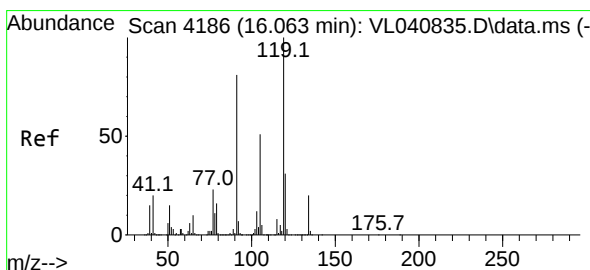
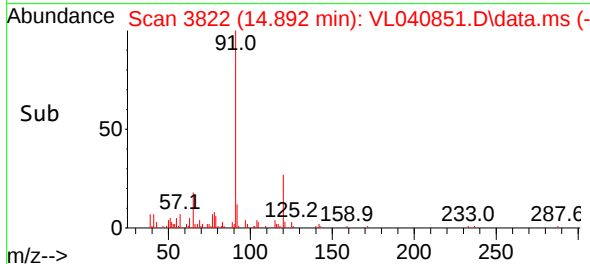
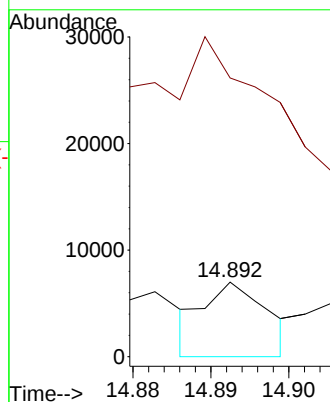
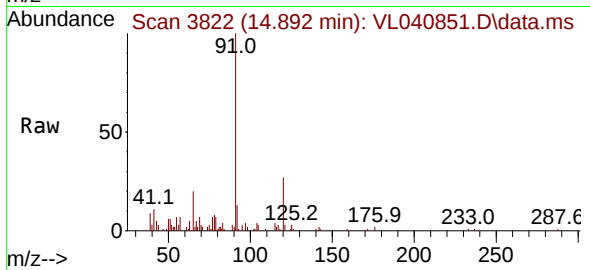
ClientSampleId :

Tgt Ion:120 Resp: 3920

Ion Ratio Lower Upper

120 100

91 1808.3 381.1 571.7#



#65

tert-Butylbenzene

Concen: 0.032 ppbv

RT: 16.072 min Scan# 4189

Delta R.T. 0.010 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

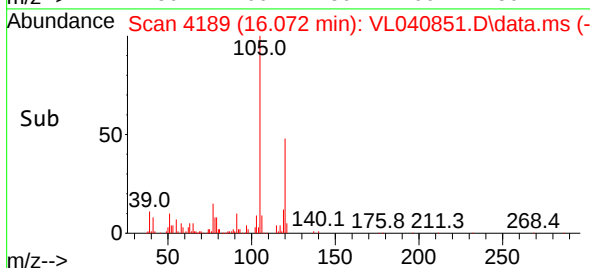
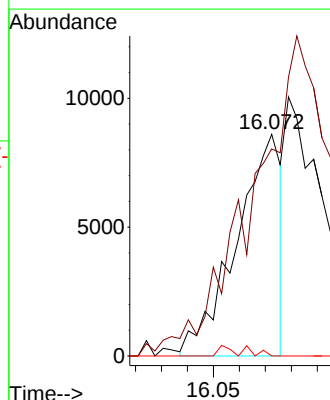
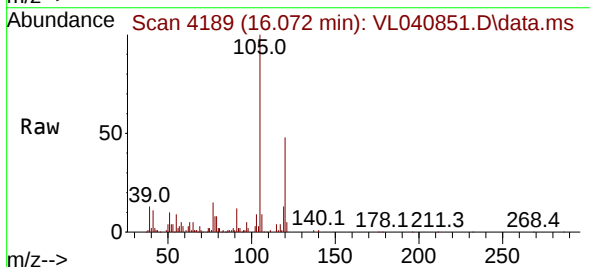
Tgt Ion:119 Resp: 10245

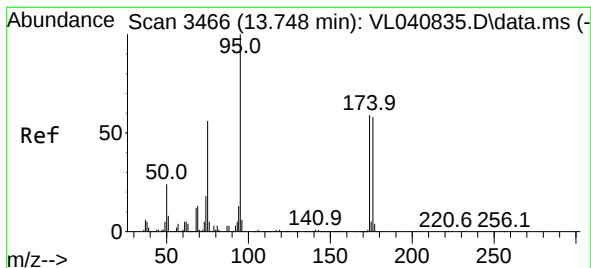
Ion Ratio Lower Upper

119 100

91 0.0 67.5 101.3#

134 2.4 15.9 23.9#

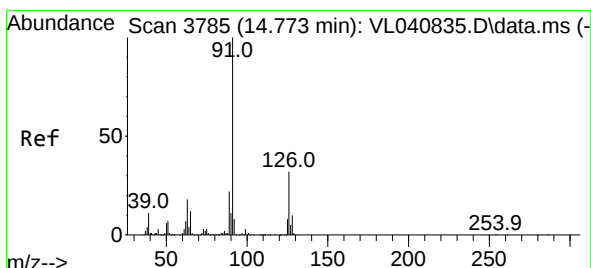
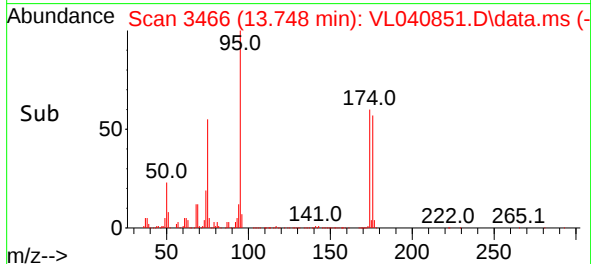
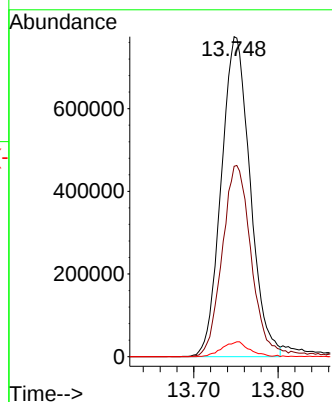
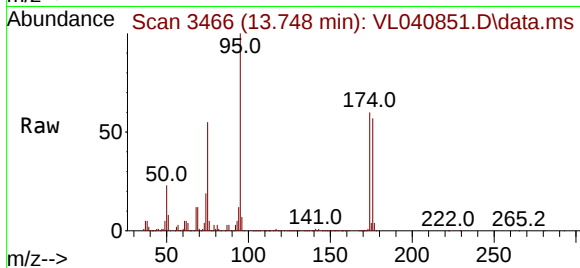




#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.768 ppbv  
RT: 13.748 min Scan# 3466  
Delta R.T. 0.000 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

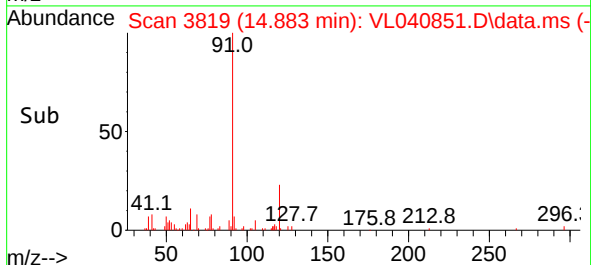
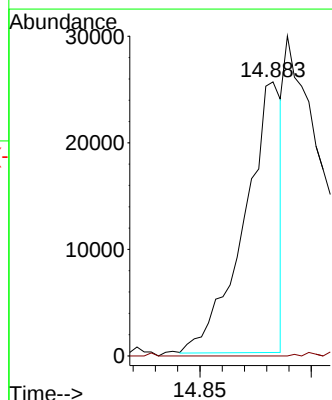
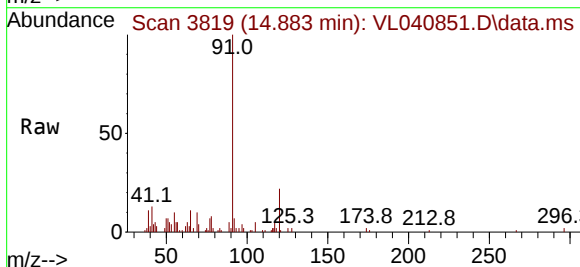
Instrument :  
MSVOA\_L  
ClientSampleId :

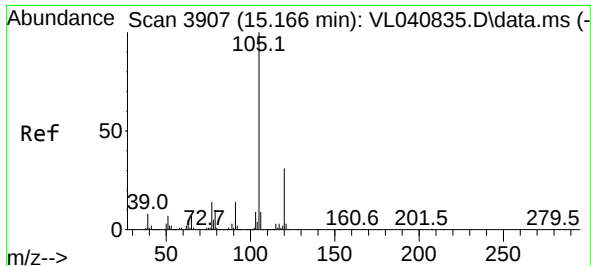
Tgt Ion: 95 Resp: 1842404  
Ion Ratio Lower Upper  
95 100  
174 61.9 47.5 71.3  
175 4.5 3.6 5.4



#71  
2-Chlorotoluene  
Concen: 0.103 ppbv  
RT: 14.883 min Scan# 3819  
Delta R.T. 0.109 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

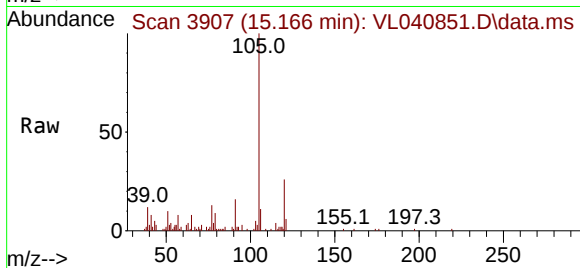
Tgt Ion: 91 Resp: 29431  
Ion Ratio Lower Upper  
91 100  
126 0.7 12.1 48.5#



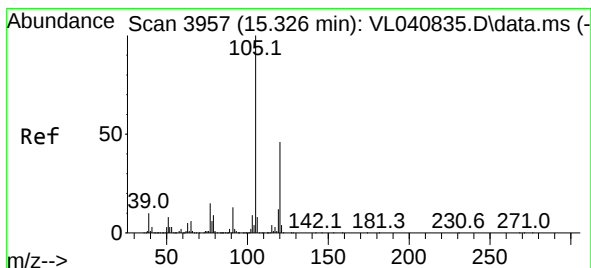
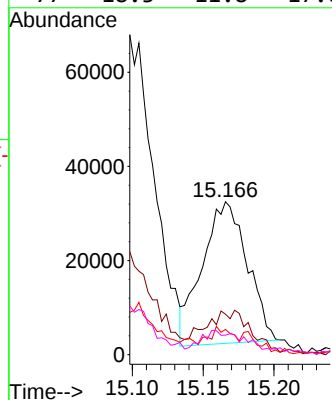
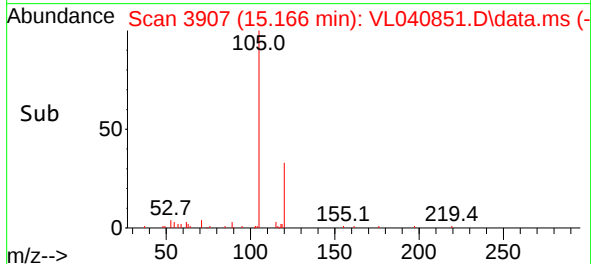


#72  
4-Ethyltoluene  
Concen: 0.238 ppbv  
RT: 15.166 min Scan# 3907  
Delta R.T. 0.000 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18

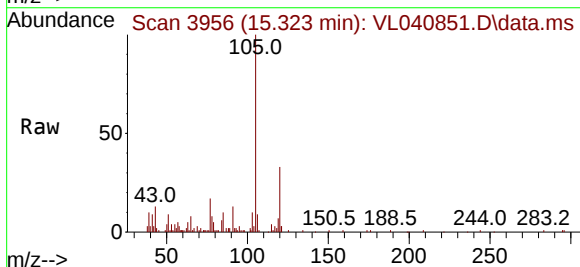
Instrument :  
MSVOA\_L  
ClientSampleId :



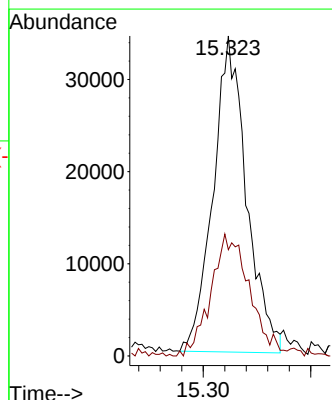
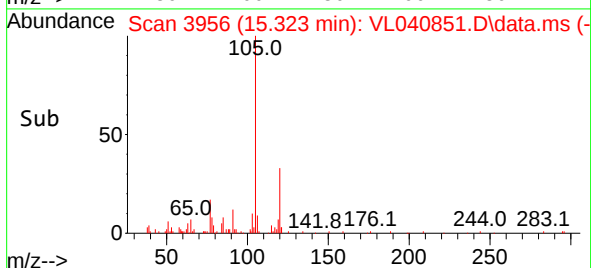
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 66599 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 35.1  | 24.5  | 36.7  |
| 91        | 20.1  | 10.6  | 16.0# |
| 77        | 18.3  | 11.8  | 17.6# |

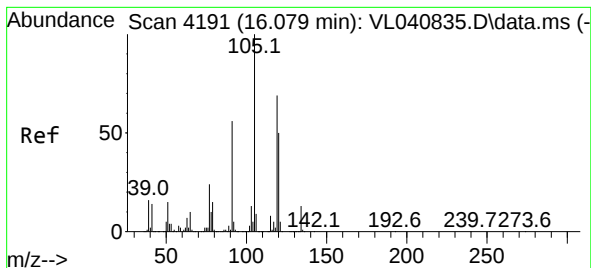


#73  
1,3,5-Trimethylbenzene  
Concen: 0.298 ppbv  
RT: 15.323 min Scan# 3956  
Delta R.T. -0.003 min  
Lab File: VL040851.D  
Acq: 14 Nov 2023 15:18



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 73948 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 35.5  | 36.8  | 55.2# |





#74

1,2,4-Trimethylbenzene

Concen: 0.736 ppbv

RT: 16.079 min Scan# 4191

Delta R.T. 0.000 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion:105 Resp: 203411

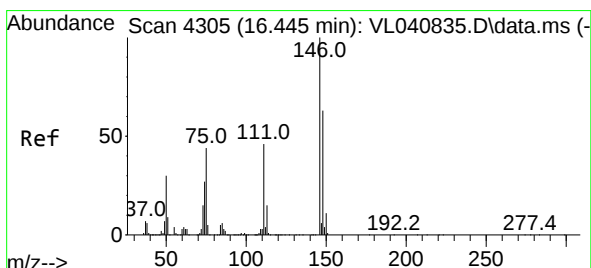
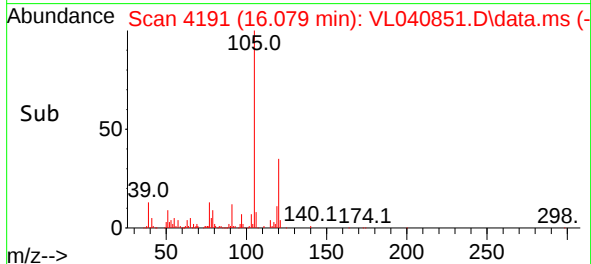
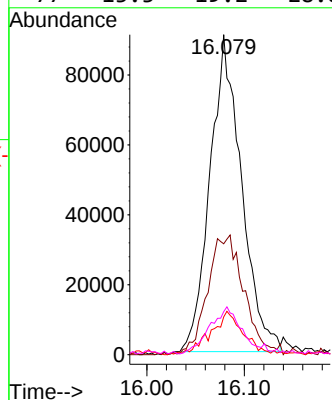
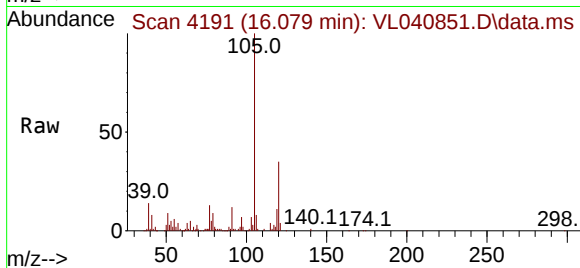
Ion Ratio Lower Upper

105 100

120 33.9 40.2 60.2#

91 11.1 45.7 68.5#

77 13.3 19.2 28.8#



#76

1,4-Dichlorobenzene

Concen: 0.044 ppbv

RT: 16.449 min Scan# 4306

Delta R.T. 0.003 min

Lab File: VL040851.D

Acq: 14 Nov 2023 15:18

Tgt Ion:146 Resp: 6385

Ion Ratio Lower Upper

146 100

111 0.0 24.1 72.4#

148 0.0 32.3 96.9#

