

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092524\  
 Data File : VL041631.D  
 Acq On : 25 Sep 2024 22:36  
 Operator : SY/MD  
 Sample : P4174-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Sep 26 01:28:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091624AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 17 09:12:21 2024  
 Response via : Initial Calibration

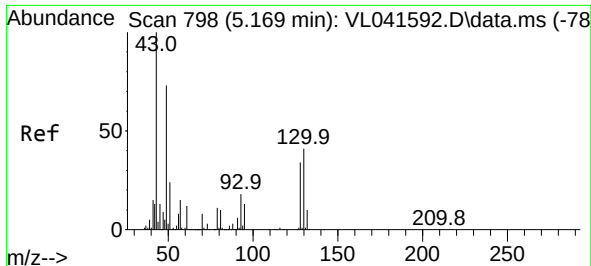
| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.176  | 49   | 1050317  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.639  | 114  | 2744053  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.455 | 117  | 2439768  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.764 | 95    | 1756769  | 9.782    | ppbv | 0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.800% |

| Target Compounds              |        |     |          |         |        | Qvalue |
|-------------------------------|--------|-----|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.703  | 85  | 96744    | 0.638   | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 2.648  | 51  | 426284   | 3.346   | ppbv   | 100    |
| 4) Chloromethane              | 2.787  | 50  | 66799    | 0.953   | ppbv   | 97     |
| 6) Bromomethane               | 3.095  | 94  | 2191     | 0.073   | ppbv # | 75     |
| 7) Chloroethane               | 3.169  | 64  | 5955     | 0.252   | ppbv # | 86     |
| 9) Propene                    | 2.668  | 41  | 503810   | 9.376   | ppbv   | 93     |
| 10) Heptane                   | 7.565  | 43  | 59671    | 0.474   | ppbv   | 97     |
| 11) Trichlorofluoromethane    | 3.542  | 101 | 143809   | 0.891   | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 4.047  | 101 | 9086     | 0.078   | ppbv   | 89     |
| 13) Ethanol                   | 3.218  | 45  | 270347   | 66.920  | ppbv   | 98     |
| 15) Acetone                   | 3.439  | 43  | 13200527 | 100.110 | ppbv # | 79     |
| 16) 1,3-Butadiene             | 2.944  | 39  | 294017   | 4.584   | ppbv # | 42     |
| 17) tert-Butyl alcohol        | 3.555  | 59  | 164431   | 1.418   | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 3.555  | 45  | 4488056  | 66.488  | ppbv # | 1      |
| 20) Methylene Chloride        | 3.915  | 84  | 57909    | 1.169   | ppbv   | 98     |
| 21) Allyl Chloride            | 3.931  | 41  | 12701    | 0.166   | ppbv # | 1      |
| 23) Vinyl Acetate             | 4.597  | 43  | 93295    | 1.286   | ppbv # | 83     |
| 24) 1,1-Dichloroethane        | 4.545  | 63  | 3747     | 0.034   | ppbv # | 78     |
| 25) Ethyl Acetate             | 5.195  | 43  | 185568   | 0.784   | ppbv # | 87     |
| 26) Hexane                    | 5.195  | 57  | 253387   | 2.567   | ppbv # | 30     |
| 27) Carbon Disulfide          | 4.102  | 76  | 18907    | 0.180   | ppbv # | 72     |
| 29) Chloroform                | 5.259  | 83  | 872170   | 5.399   | ppbv   | 99     |
| 30) Cyclohexane               | 6.590  | 84  | 3236     | 0.043   | ppbv # | 1      |
| 34) 2-Butanone                | 4.767  | 43  | 1857702  | 14.198  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.478  | 117 | 116300   | 0.864   | ppbv   | 91     |
| 36) Benzene                   | 6.352  | 78  | 349986   | 1.837   | ppbv   | 99     |
| 38) Trichloroethene           | 7.279  | 130 | 10939    | 0.111   | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 6.639  | 63  | 683659   | 8.818   | ppbv # | 24     |
| 40) 1,4-Dioxane               | 7.272  | 88  | 1084     | 0.037   | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.536  | 42  | 60469    | 0.840   | ppbv # | 83     |
| 44) 2,2,4-Trimethylpentane    | 7.314  | 57  | 32252    | 0.098   | ppbv # | 25     |
| 50) 4-Methyl-2-Pentanone      | 8.176  | 43  | 52351    | 0.259   | ppbv   | 95     |
| 51) 2-Hexanone                | 9.555  | 43  | 37217    | 0.244   | ppbv # | 65     |
| 52) Tetrachloroethene         | 10.603 | 164 | 2470568  | 35.802  | ppbv   | 97     |
| 53) Toluene                   | 9.208  | 91  | 472293   | 2.335   | ppbv   | 100    |
| 58) Ethyl Benzene             | 12.073 | 91  | 42466    | 0.163   | ppbv   | 90     |
| 59) m/p-Xylene                | 12.349 | 91  | 21188    | 0.091   | ppbv # | 1      |
| 60) o-Xylene                  | 13.047 | 91  | 10264    | 0.046   | ppbv # | 43     |
| 66) Benzyl Chloride           | 16.310 | 91  | 499      | 0.031   | ppbv # | 63     |

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

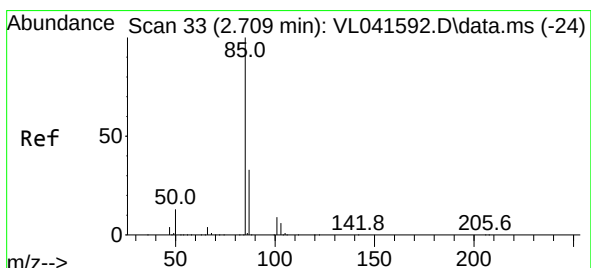
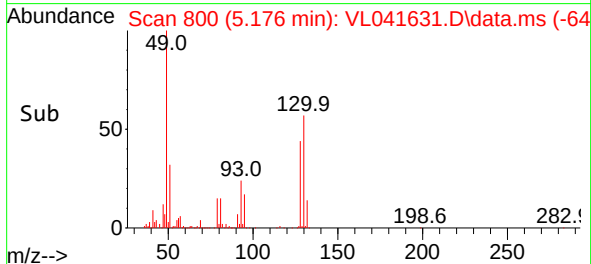
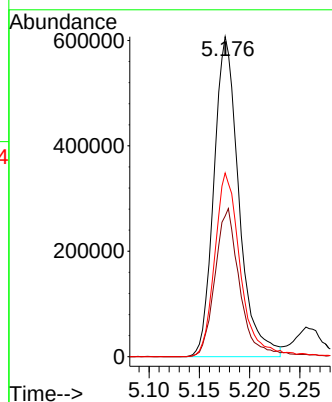
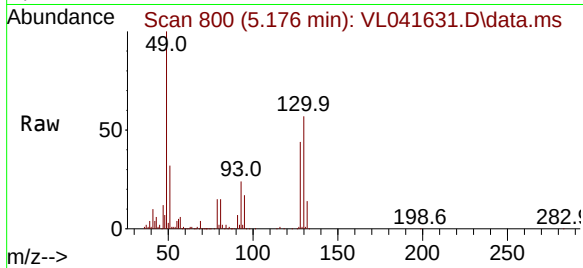




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.176 min Scan# 80  
 Delta R.T. 0.007 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

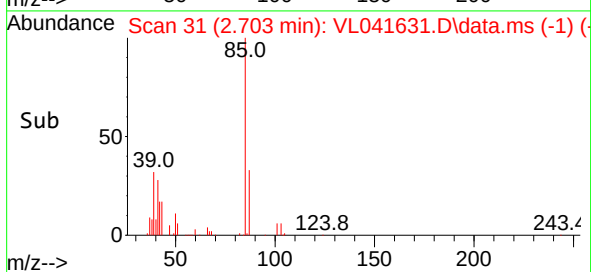
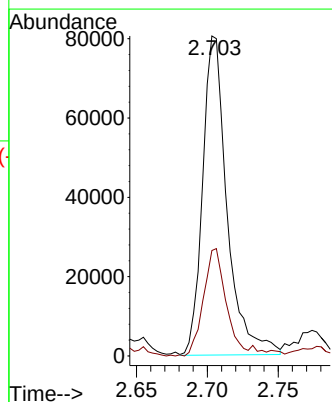
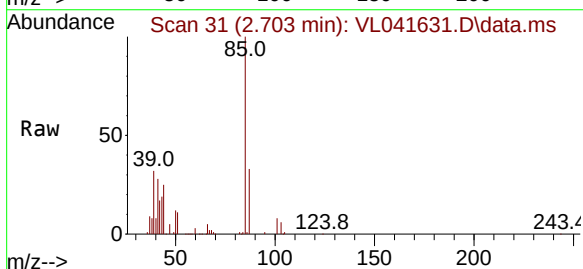
Instrument :  
 MSVOA\_L  
 ClientSampleId :

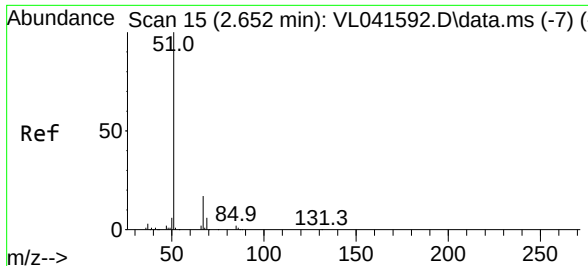
Tgt Ion: 49 Resp: 1050317  
 Ion Ratio Lower Upper  
 49 100  
 128 47.0 23.8 71.5  
 130 59.9 30.4 91.3



#2  
 Dichlorodifluoromethane  
 Concen: 0.638 ppbv  
 RT: 2.703 min Scan# 31  
 Delta R.T. -0.006 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

Tgt Ion: 85 Resp: 96744  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 26.3 39.5

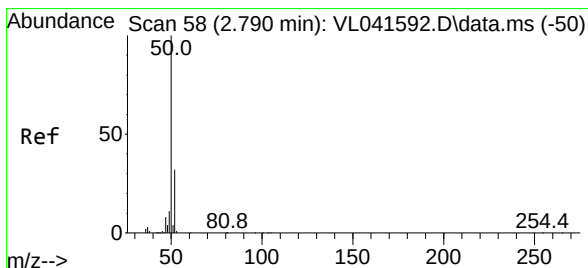
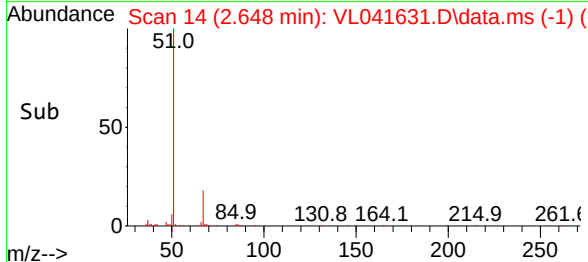
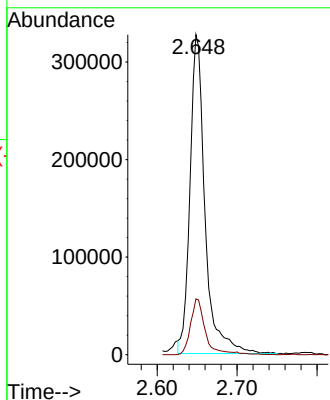
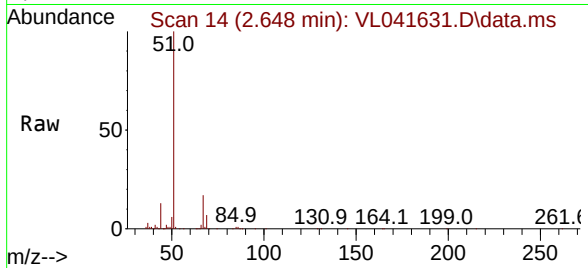




#3  
Chlorodifluoromethane  
Concen: 3.346 ppbv  
RT: 2.648 min Scan# 14  
Delta R.T. -0.003 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

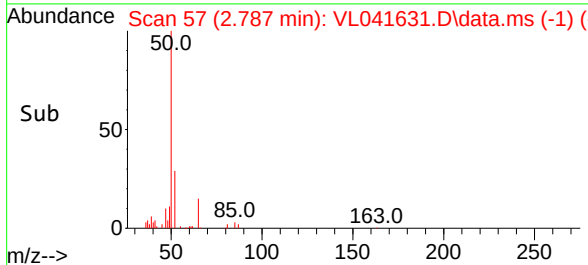
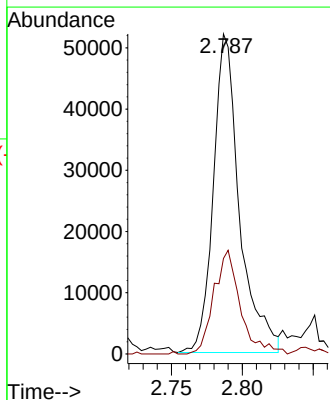
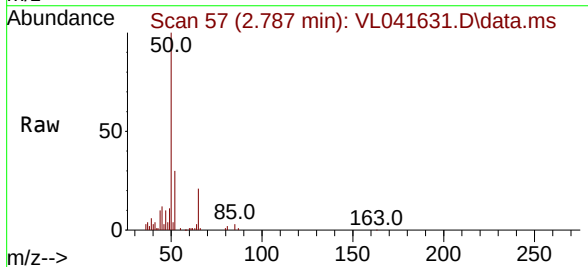
Instrument :  
MSVOA\_L  
ClientSampleId :

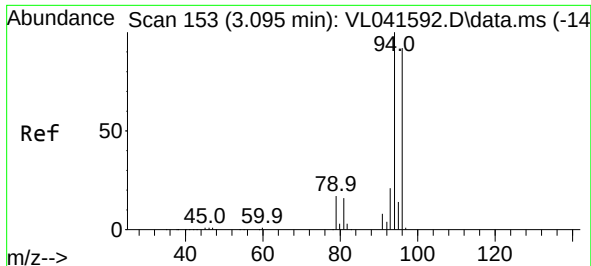
Tgt Ion: 51 Resp: 426284  
Ion Ratio Lower Upper  
51 100  
67 17.4 14.1 21.1



#4  
Chloromethane  
Concen: 0.953 ppbv  
RT: 2.787 min Scan# 57  
Delta R.T. -0.003 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 50 Resp: 66799  
Ion Ratio Lower Upper  
50 100  
52 30.0 25.4 38.2

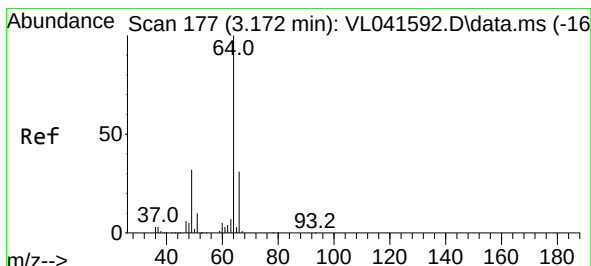
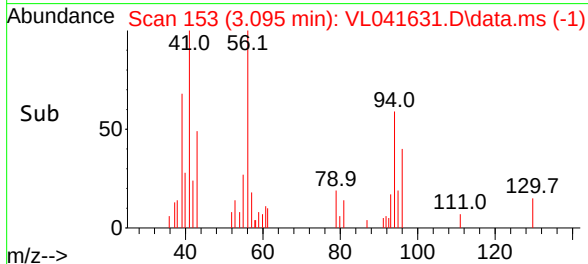
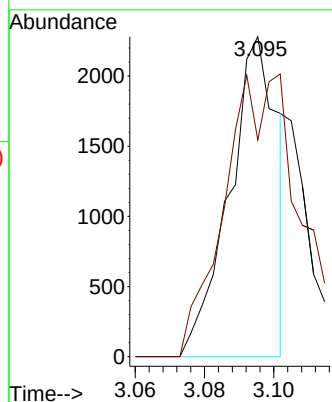
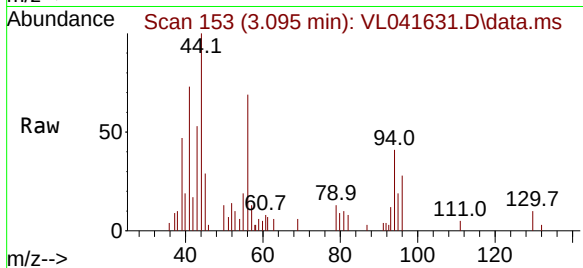




#6  
Bromomethane  
Concen: 0.073 ppbv  
RT: 3.095 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

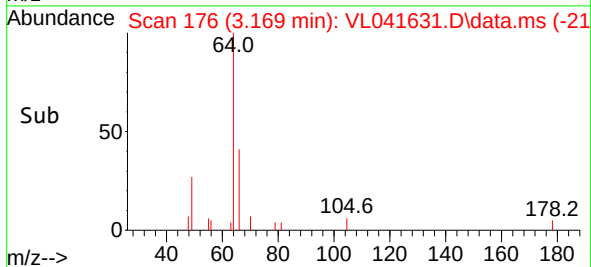
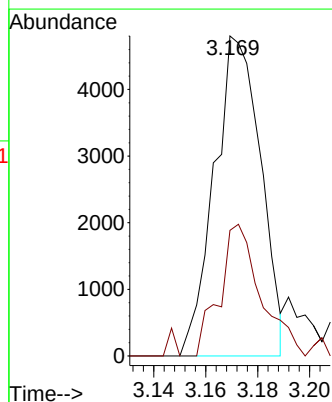
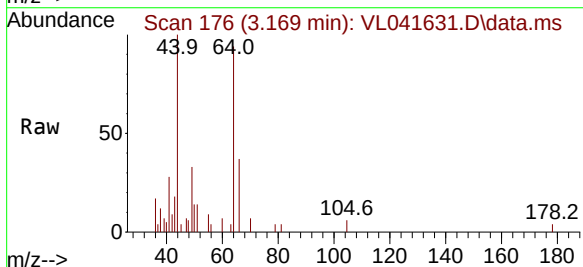
Instrument :  
MSVOA\_L  
ClientSampleId :

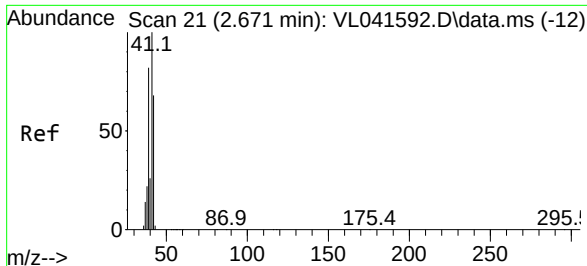
Tgt Ion: 94 Resp: 2191  
Ion Ratio Lower Upper  
94 100  
96 67.7 73.4 110.2#



#7  
Chloroethane  
Concen: 0.252 ppbv  
RT: 3.169 min Scan# 176  
Delta R.T. -0.003 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 64 Resp: 5955  
Ion Ratio Lower Upper  
64 100  
66 39.3 25.1 37.7#

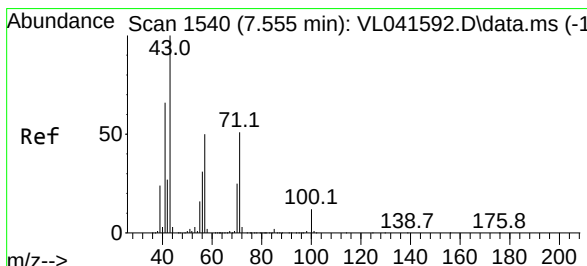
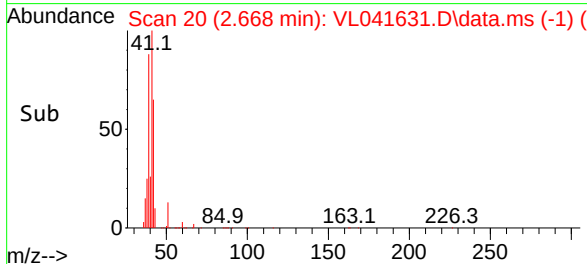
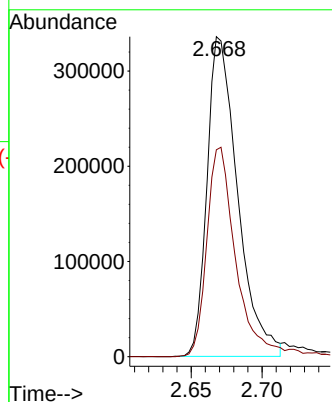
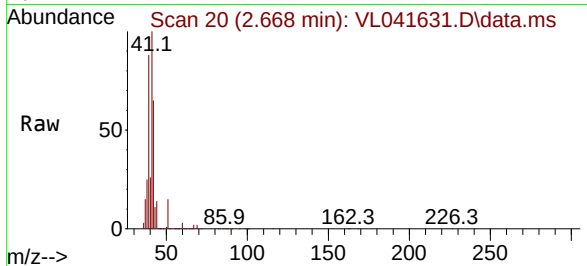




#9  
 Propene  
 Concen: 9.376 ppbv  
 RT: 2.668 min Scan# 20  
 Delta R.T. -0.003 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

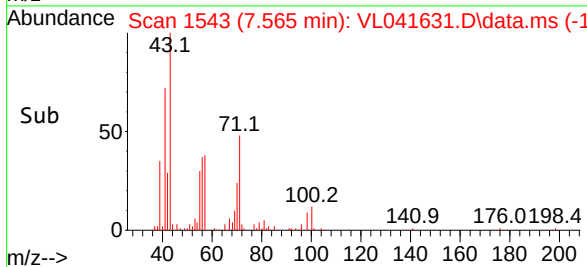
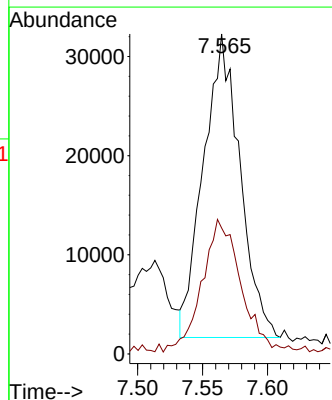
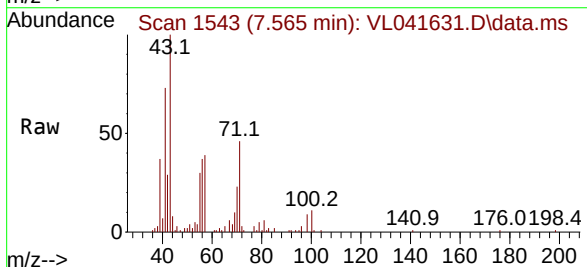
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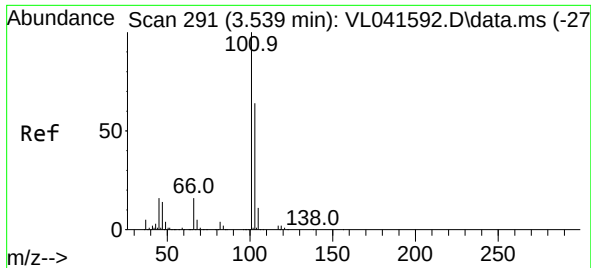
Tgt Ion: 41 Resp: 503810  
 Ion Ratio Lower Upper  
 41 100  
 42 63.6 55.2 82.8



#10  
 Heptane  
 Concen: 0.474 ppbv  
 RT: 7.565 min Scan# 1543  
 Delta R.T. 0.010 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

Tgt Ion: 43 Resp: 59671  
 Ion Ratio Lower Upper  
 43 100  
 57 51.9 39.8 59.8

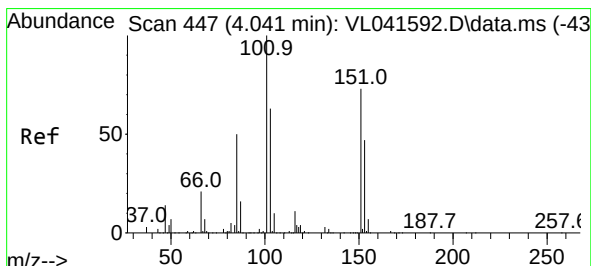
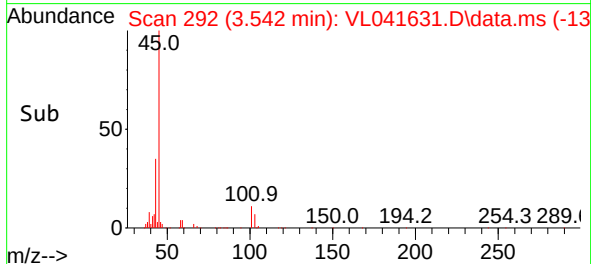
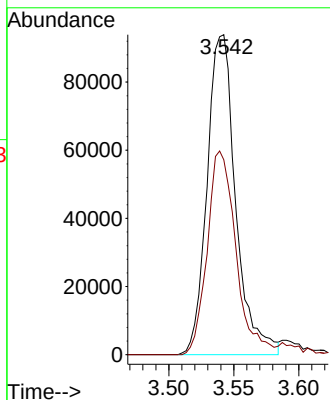
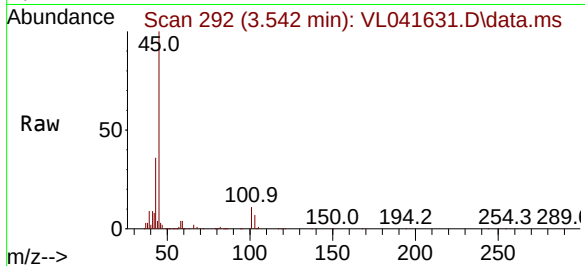




#11  
 Trichlorofluoromethane  
 Concen: 0.891 ppbv  
 RT: 3.542 min Scan# 291  
 Delta R.T. 0.003 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

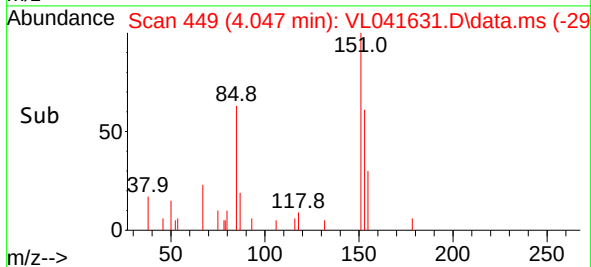
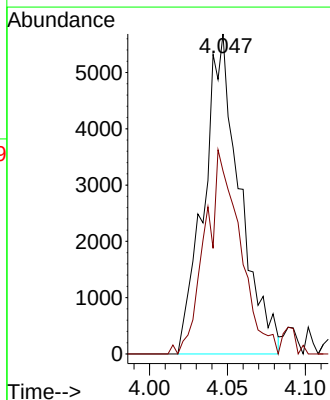
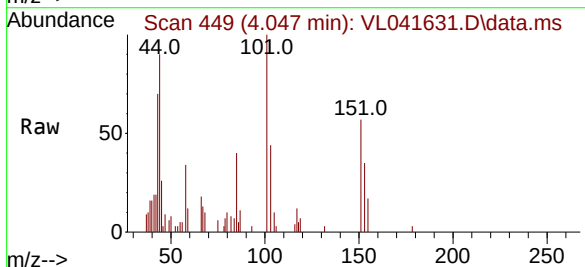
Instrument :  
 MSVOA\_L  
 ClientSampleId :

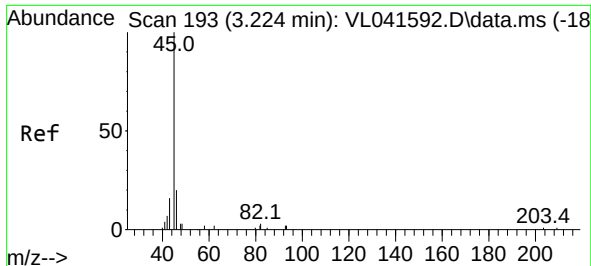
Tgt Ion:101 Resp: 143809  
 Ion Ratio Lower Upper  
 101 100  
 103 60.9 51.2 76.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.078 ppbv  
 RT: 4.047 min Scan# 449  
 Delta R.T. 0.007 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

Tgt Ion:101 Resp: 9086  
 Ion Ratio Lower Upper  
 101 100  
 151 64.8 59.4 89.2

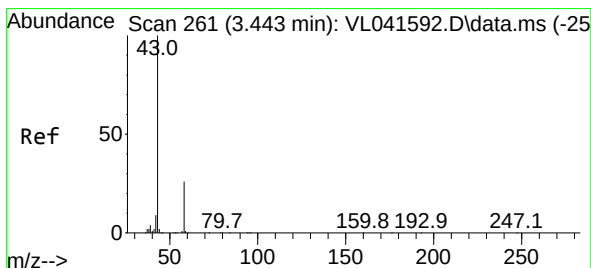
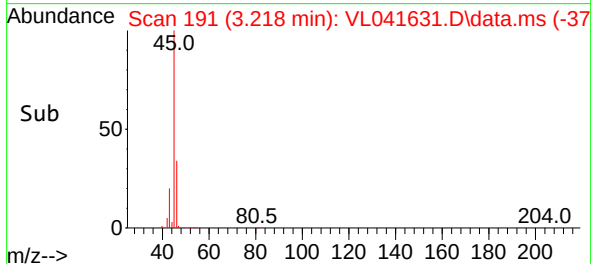
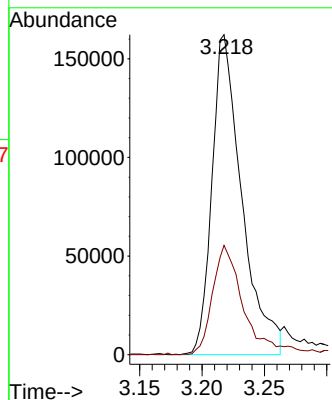
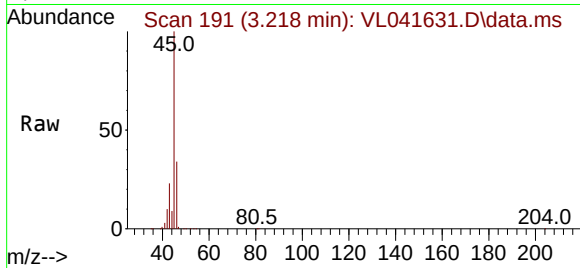




#13  
Ethanol  
Concen: 66.920 ppbv  
RT: 3.218 min Scan# 193  
Delta R.T. -0.006 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

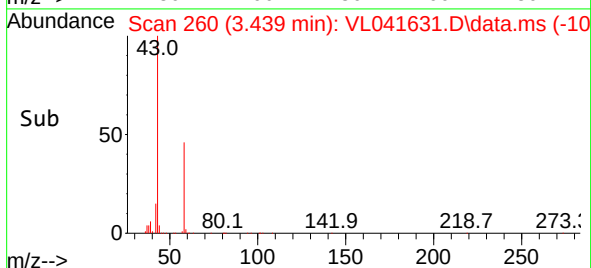
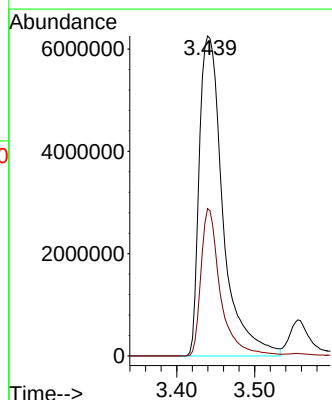
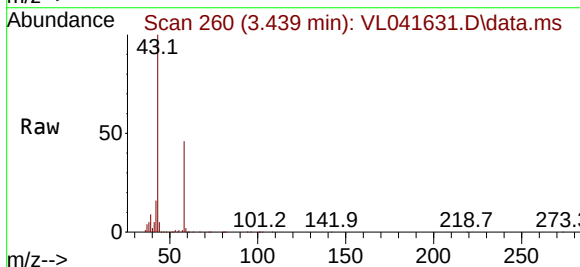
Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion: 45 Resp: 270347  
Ion Ratio Lower Upper  
45 100  
46 37.1 15.2 60.8

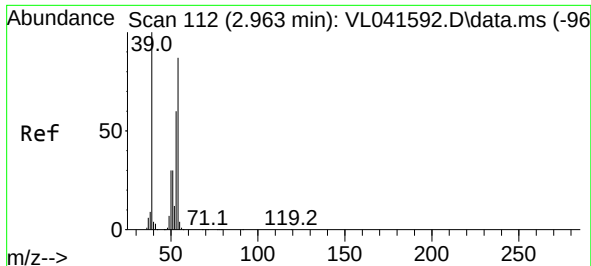


#15  
Acetone  
Concen: 100.110 ppbv  
RT: 3.439 min Scan# 260  
Delta R.T. -0.003 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 43 Resp:13200527  
Ion Ratio Lower Upper  
43 100  
58 37.9 21.5 32.3#



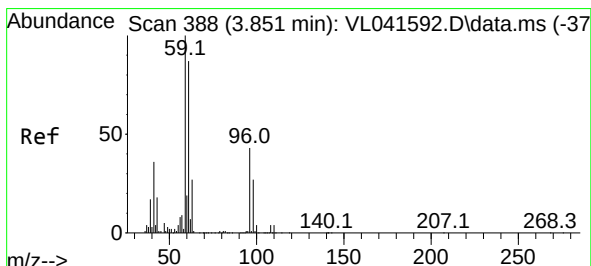
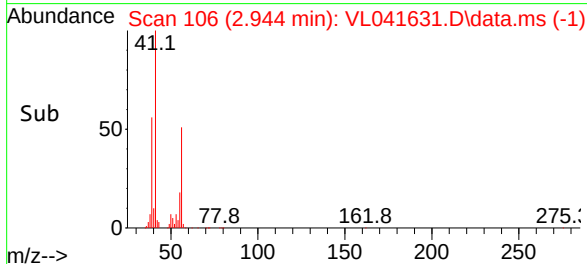
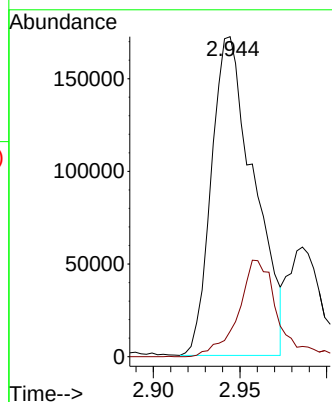
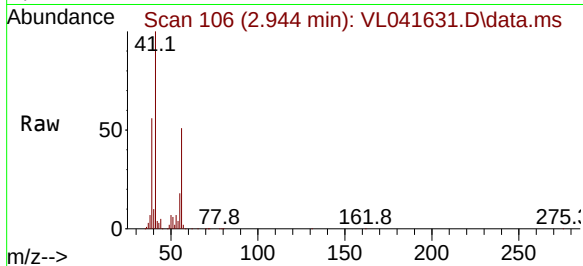




#16  
1,3-Butadiene  
Concen: 4.584 ppbv  
RT: 2.944 min Scan# 106  
Delta R.T. -0.019 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

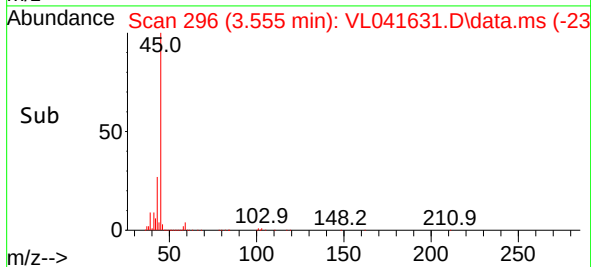
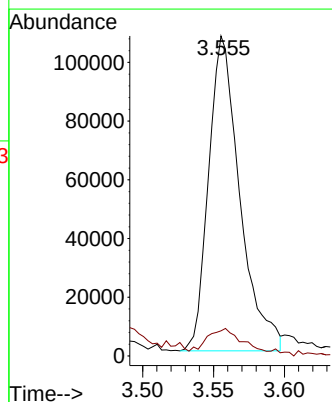
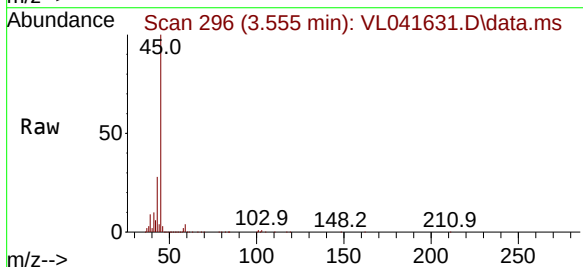
Instrument :  
MSVOA\_L  
ClientSampleId :

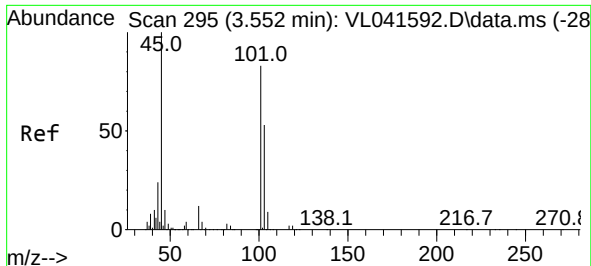
Tgt Ion: 39 Resp: 294017  
Ion Ratio Lower Upper  
39 100  
54 27.8 62.9 94.3#



#17  
tert-Butyl alcohol  
Concen: 1.418 ppbv  
RT: 3.555 min Scan# 296  
Delta R.T. -0.296 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 59 Resp: 164431  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.7 13.1

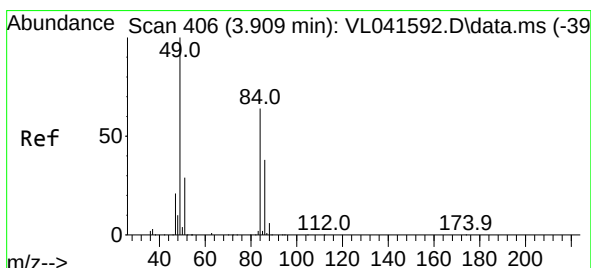
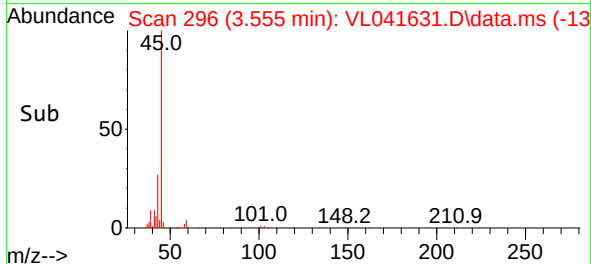
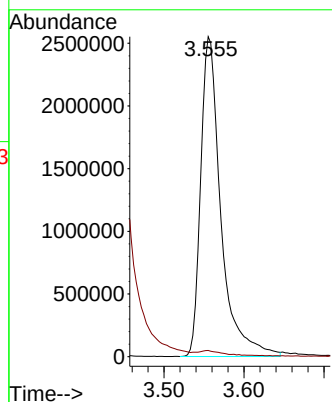
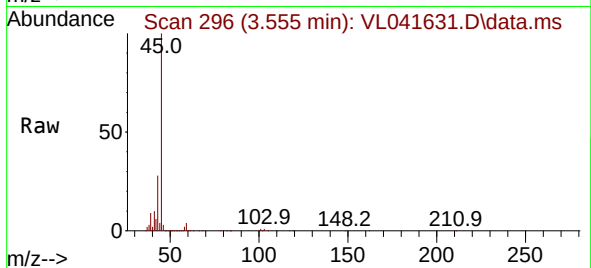




#19  
Isopropyl Alcohol  
Concen: 66.488 ppbv  
RT: 3.555 min Scan# 295  
Delta R.T. 0.003 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

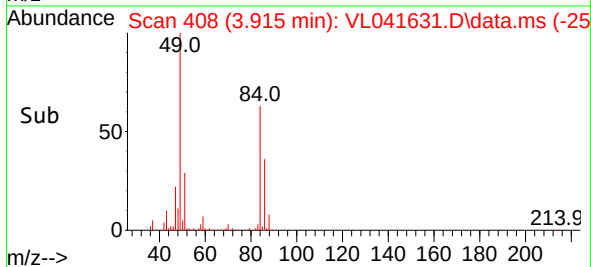
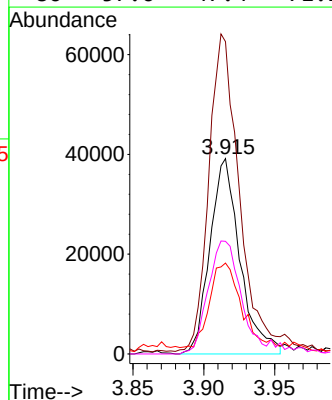
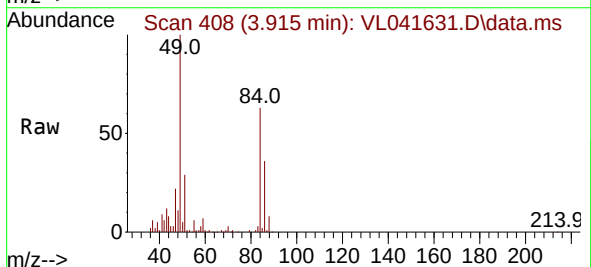
Instrument :  
MSVOA\_L  
ClientSampleId :

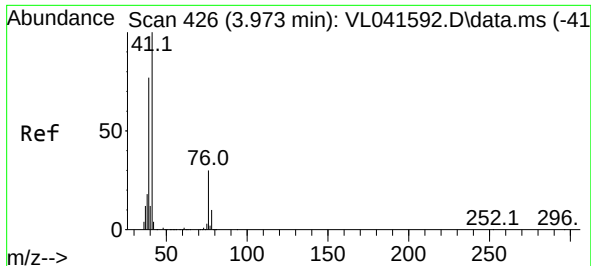
Tgt Ion: 45 Resp: 4488056  
Ion Ratio Lower Upper  
45 100  
58 111.6 2.1 3.1#



#20  
Methylene Chloride  
Concen: 1.169 ppbv  
RT: 3.915 min Scan# 408  
Delta R.T. 0.007 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 84 Resp: 57909  
Ion Ratio Lower Upper  
84 100  
49 157.7 124.3 186.5  
51 43.2 36.3 54.5  
86 57.6 47.4 71.2





#21

Allyl Chloride

Concen: 0.166 ppbv

RT: 3.931 min Scan# 41

Delta R.T. -0.042 min

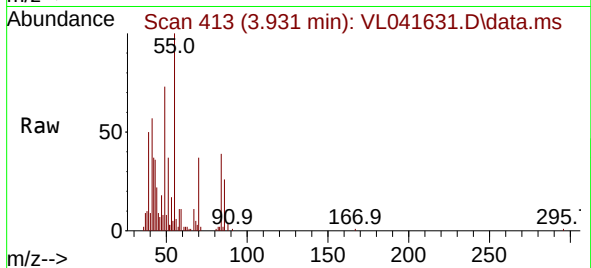
Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

ClientSampleId :



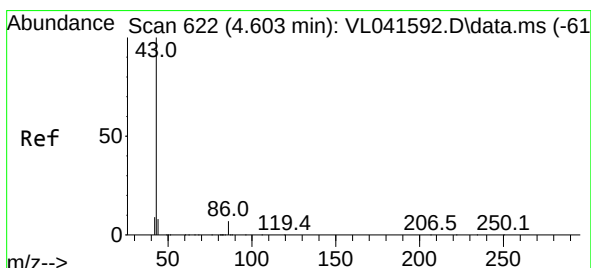
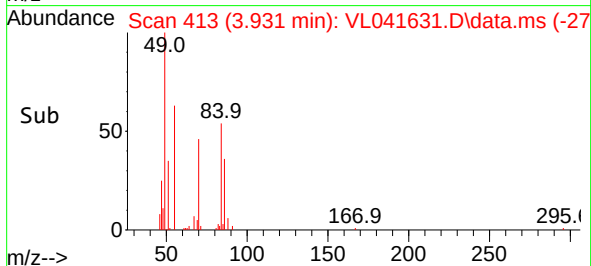
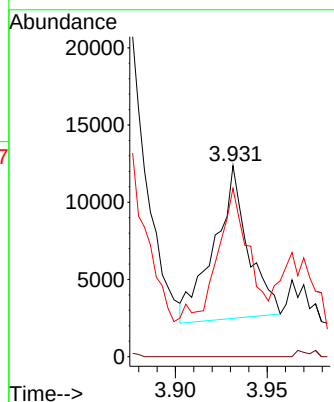
Tgt Ion: 41 Resp: 12701

Ion Ratio Lower Upper

41 100

76 170.9 23.8 35.6#

39 281.5 63.9 95.9#



#23

Vinyl Acetate

Concen: 1.286 ppbv

RT: 4.597 min Scan# 620

Delta R.T. -0.006 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Tgt Ion: 43 Resp: 93295

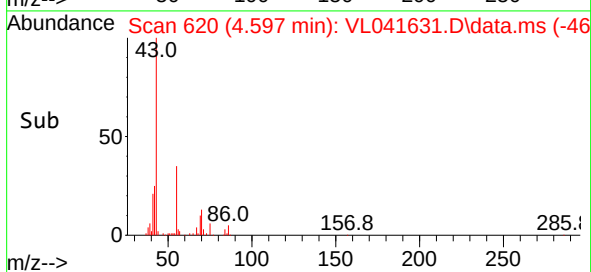
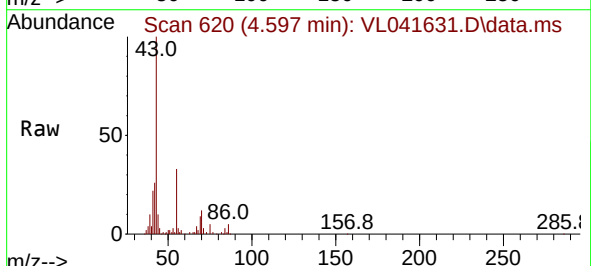
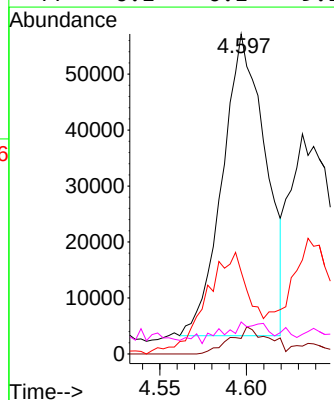
Ion Ratio Lower Upper

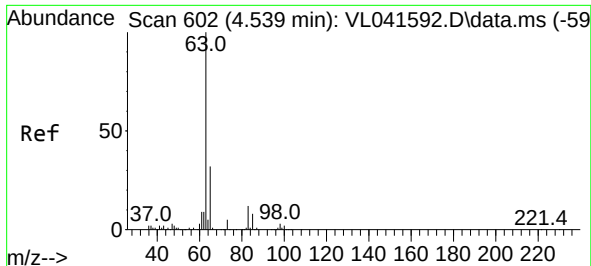
43 100

86 5.1 4.9 7.3

42 23.1 8.0 12.0#

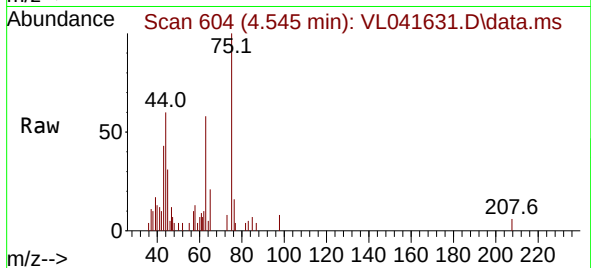
44 6.1 6.1 9.1



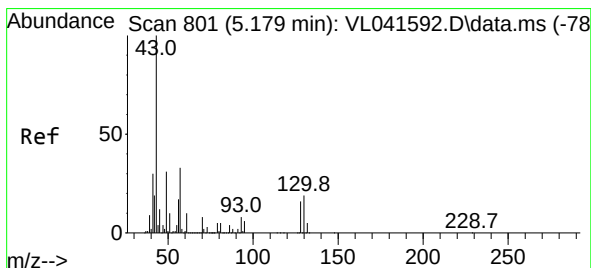
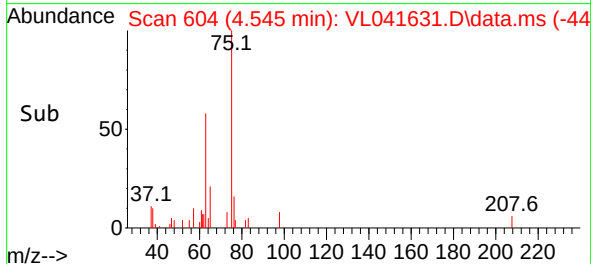
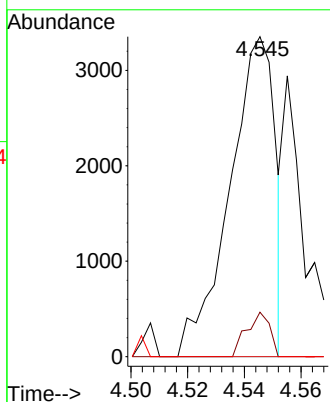


#24  
1,1-Dichloroethane  
Concen: 0.034 ppbv  
RT: 4.545 min Scan# 602  
Delta R.T. 0.007 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Instrument :  
MSVOA\_L  
ClientSampleId :

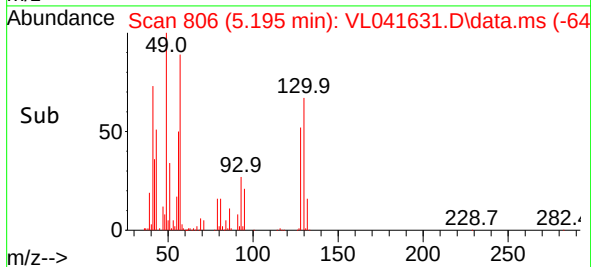
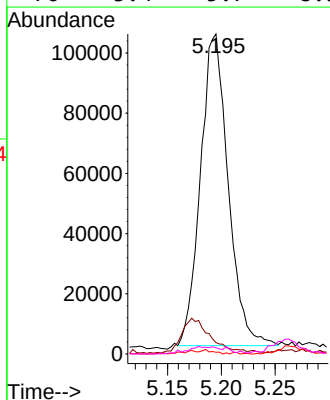
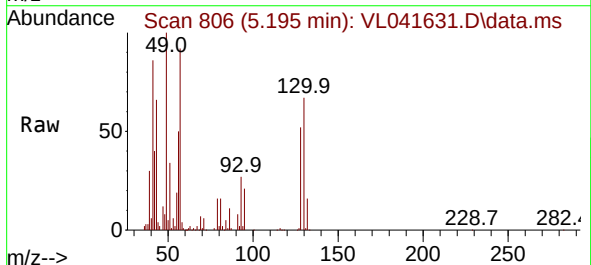


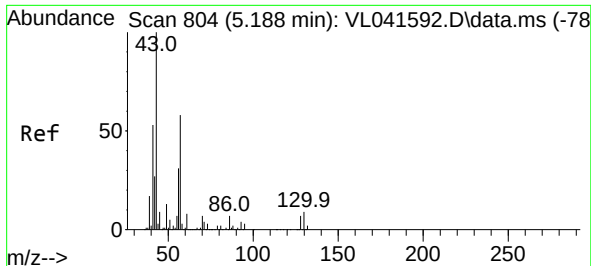
Tgt Ion: 63 Resp: 3747  
Ion Ratio Lower Upper  
63 100  
98 13.9 1.7 5.1#  
100 0.0 1.1 3.3#



#25  
Ethyl Acetate  
Concen: 0.784 ppbv  
RT: 5.195 min Scan# 806  
Delta R.T. 0.016 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 43 Resp: 185568  
Ion Ratio Lower Upper  
43 100  
45 11.7 8.2 12.2  
61 1.4 8.0 12.0#  
70 3.4 5.7 8.5#

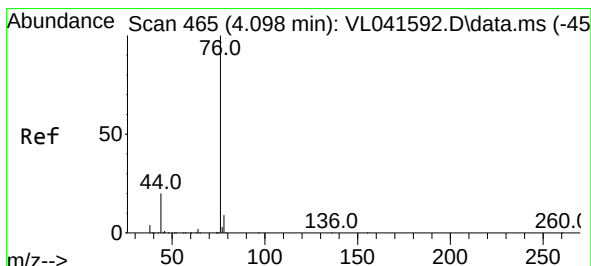
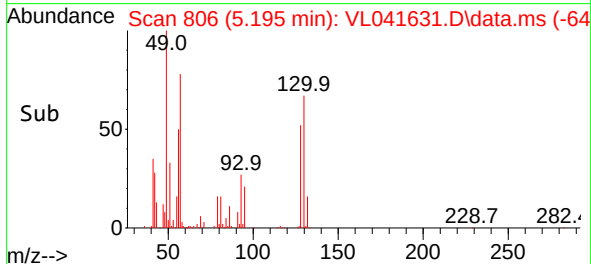
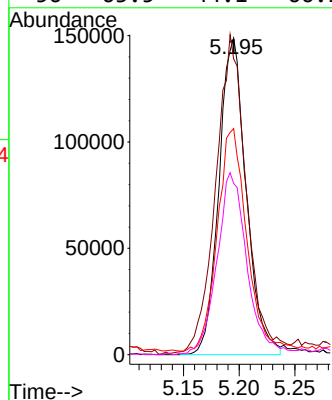
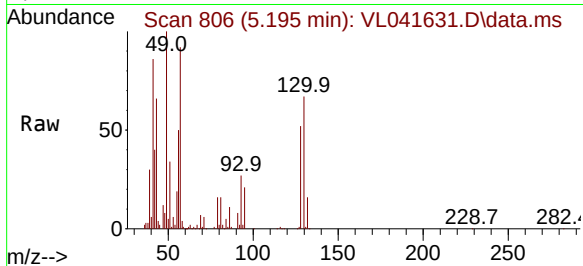




#26  
Hexane  
Concen: 2.567 ppbv  
RT: 5.195 min Scan# 804  
Delta R.T. 0.007 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

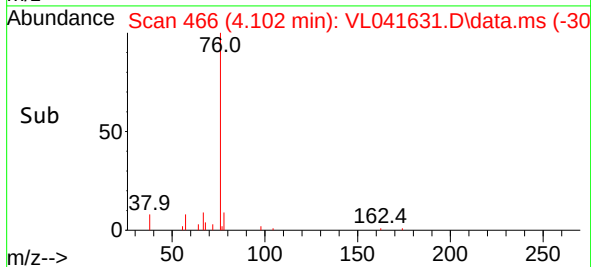
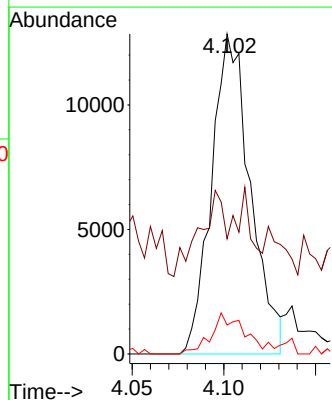
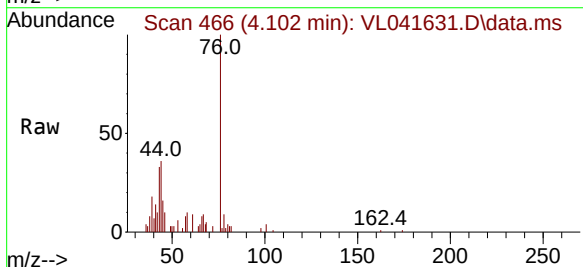
Instrument :  
MSVOA\_L  
ClientSampleId :

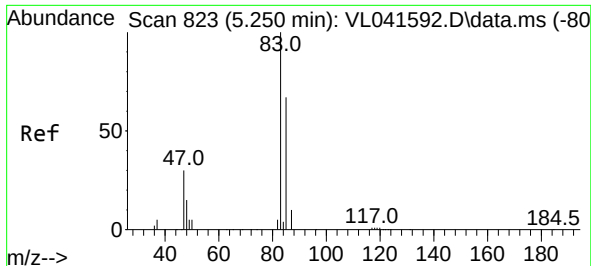
Tgt Ion: 57 Resp: 253387  
Ion Ratio Lower Upper  
57 100  
41 119.5 75.7 113.5#  
43 76.1 198.5 297.7#  
56 63.5 44.1 66.1



#27  
Carbon Disulfide  
Concen: 0.180 ppbv  
RT: 4.102 min Scan# 466  
Delta R.T. 0.003 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 76 Resp: 18907  
Ion Ratio Lower Upper  
76 100  
44 36.7 15.8 23.8#  
78 13.0 7.5 11.3#





#29

Chloroform

Concen: 5.399 ppbv

RT: 5.259 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

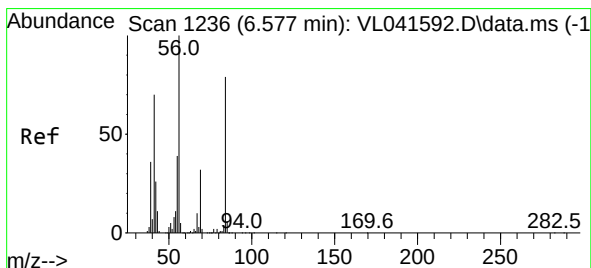
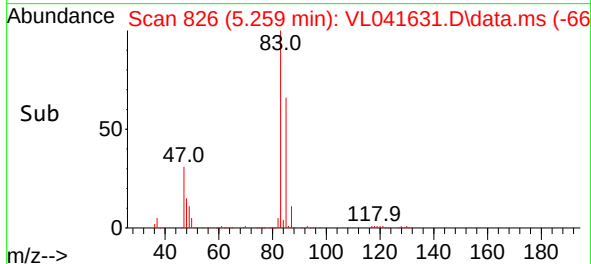
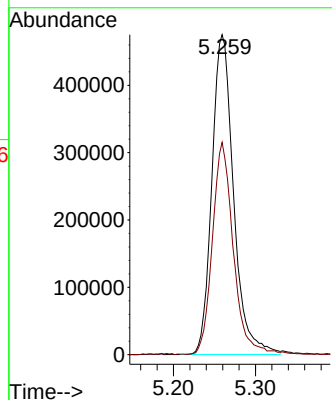
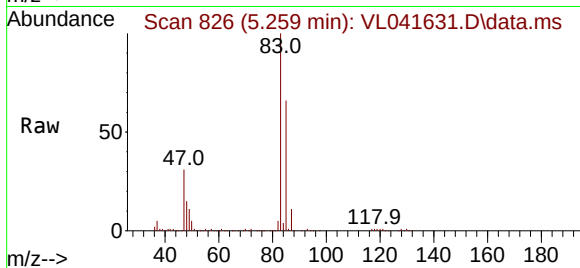
ClientSampleId :

Tgt Ion: 83 Resp: 872170

Ion Ratio Lower Upper

83 100

85 66.3 53.8 80.6



#30

Cyclohexane

Concen: 0.043 ppbv

RT: 6.590 min Scan# 1240

Delta R.T. 0.013 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

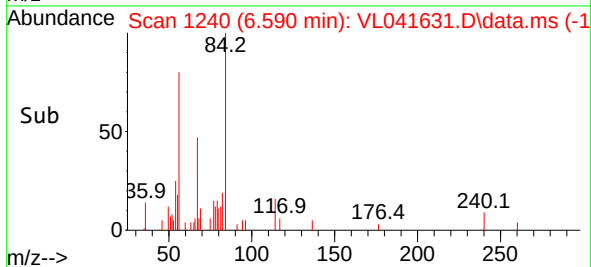
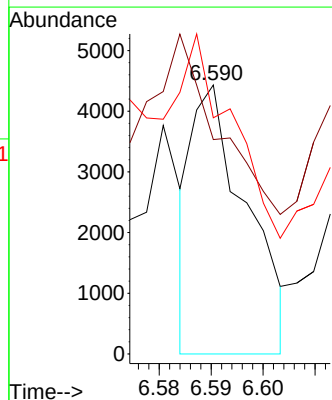
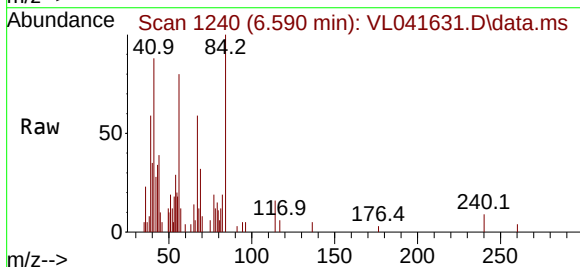
Tgt Ion: 84 Resp: 3236

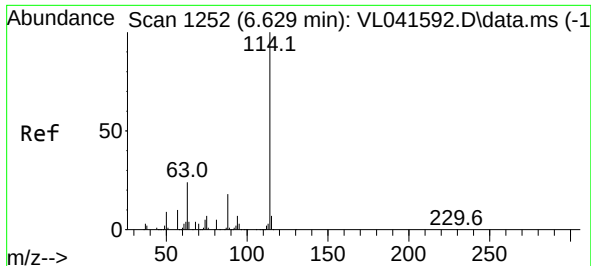
Ion Ratio Lower Upper

84 100

56 395.9 111.5 167.3#

41 220.7 70.9 106.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

ClientSampleId :

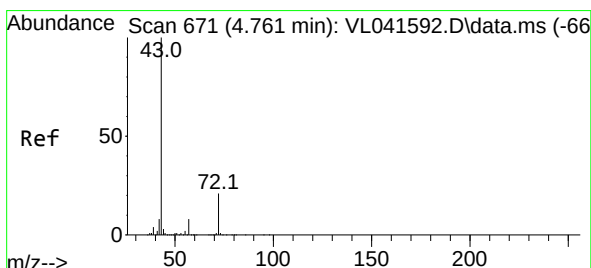
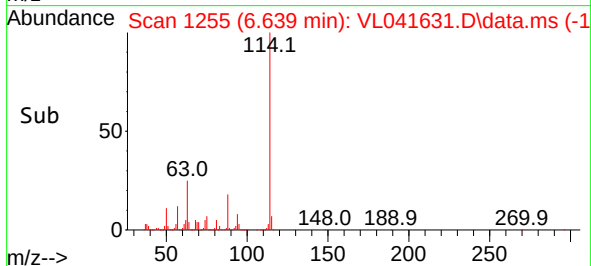
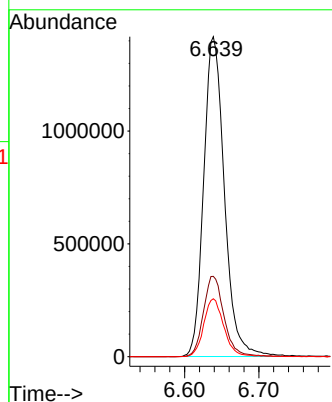
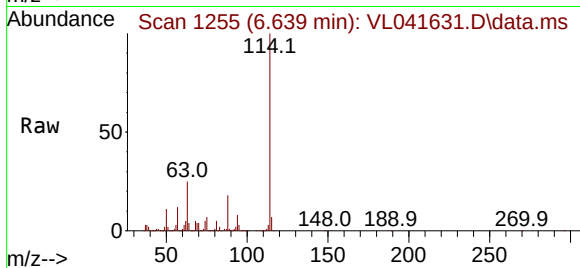
Tgt Ion:114 Resp: 2744053

Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.2

88 17.7 14.2 21.4



#34

2-Butanone

Concen: 14.198 ppbv

RT: 4.767 min Scan# 673

Delta R.T. 0.007 min

Lab File: VL041631.D

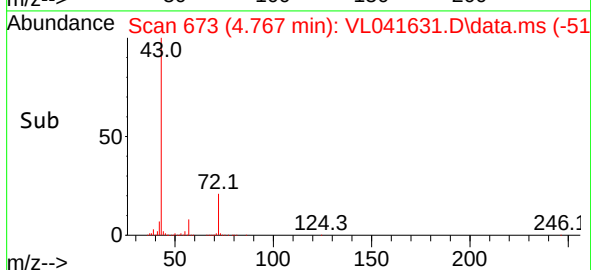
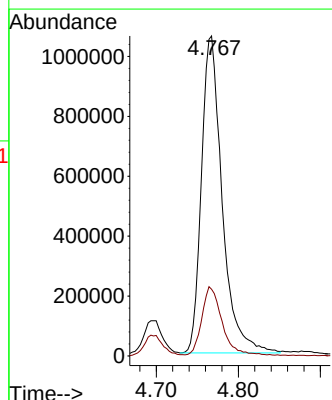
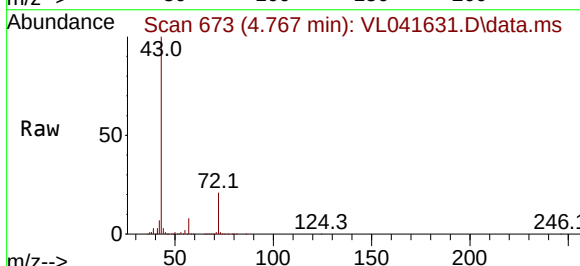
Acq: 25 Sep 2024 22:36

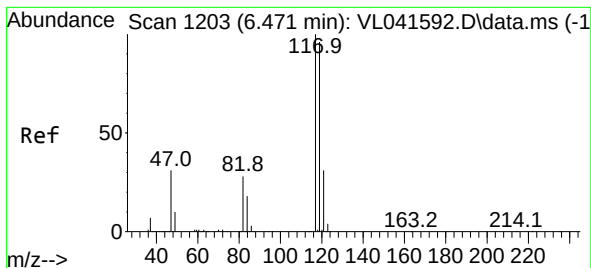
Tgt Ion: 43 Resp: 1857702

Ion Ratio Lower Upper

43 100

72 21.7 16.8 25.2





#35

Carbon Tetrachloride

Concen: 0.864 ppbv

RT: 6.478 min Scan# 1163

Delta R.T. 0.007 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

ClientSampleId :

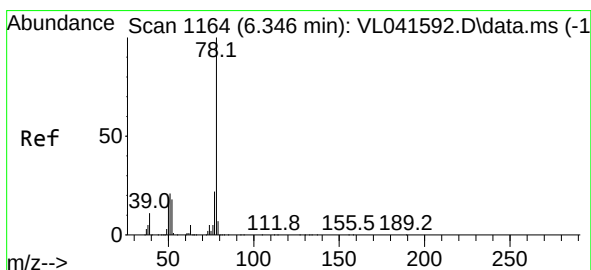
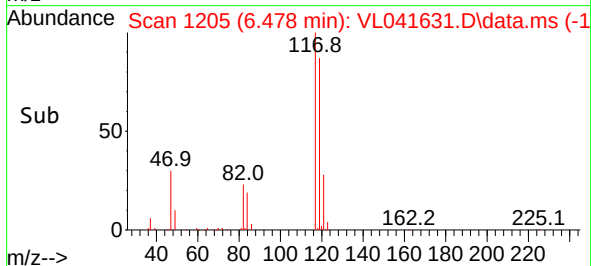
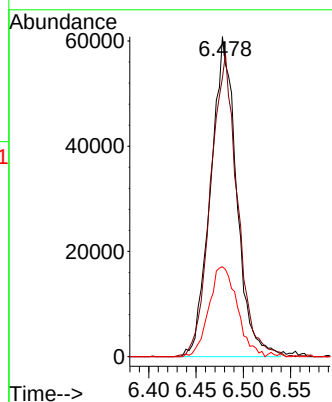
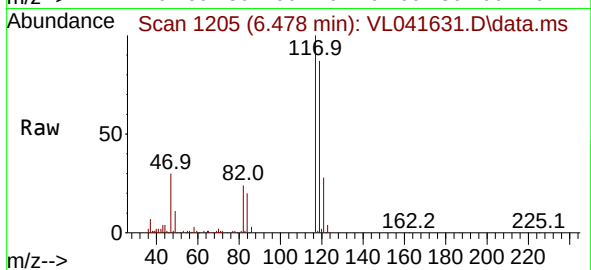
Tgt Ion:117 Resp: 116300

Ion Ratio Lower Upper

117 100

119 86.7 76.8 115.2

121 28.1 25.0 37.6



#36

Benzene

Concen: 1.837 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

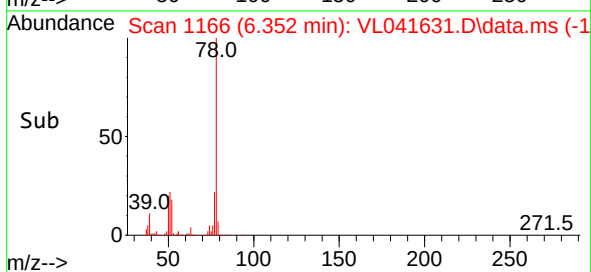
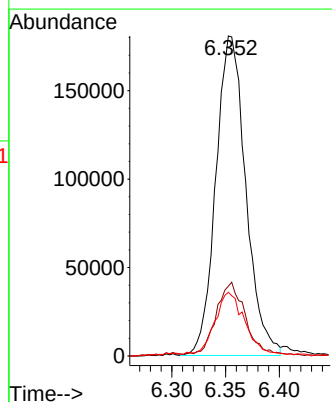
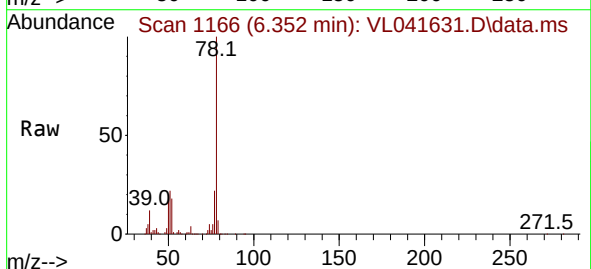
Tgt Ion: 78 Resp: 349986

Ion Ratio Lower Upper

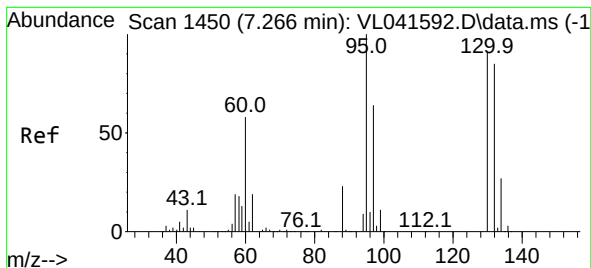
78 100

77 21.3 17.8 26.6

50 19.2 15.4 23.0







#38

Trichloroethene

Concen: 0.111 ppbv

RT: 7.279 min Scan# 1450

Delta R.T. 0.013 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion:130 Resp: 10939

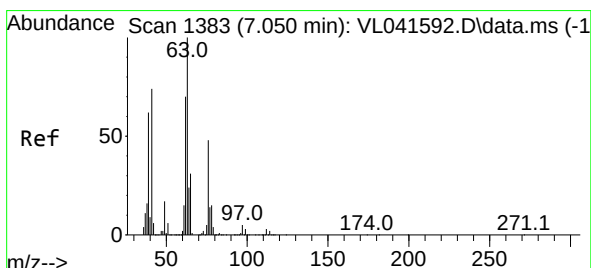
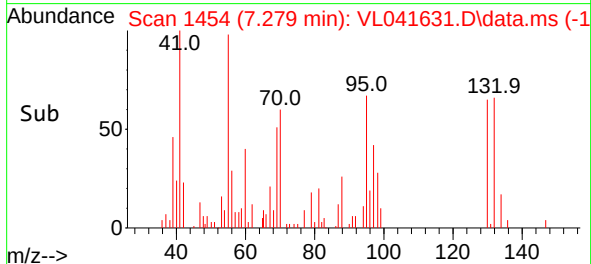
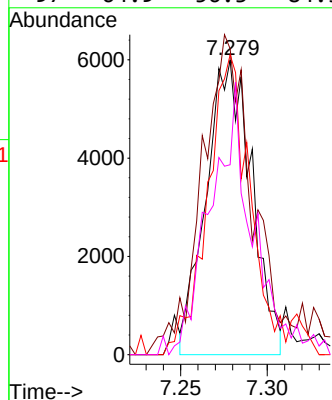
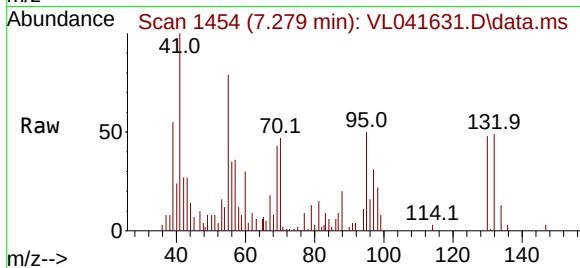
Ion Ratio Lower Upper

130 100

95 100.3 87.7 131.5

132 95.5 74.5 111.7

97 64.9 56.3 84.5



#39

1,2-Dichloropropane

Concen: 8.818 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.411 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

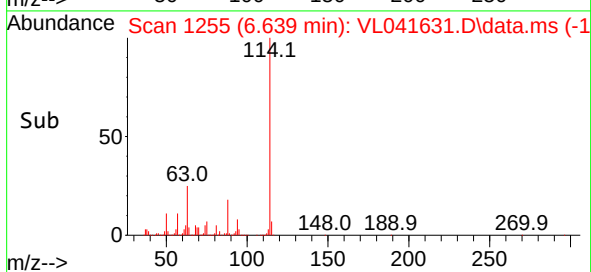
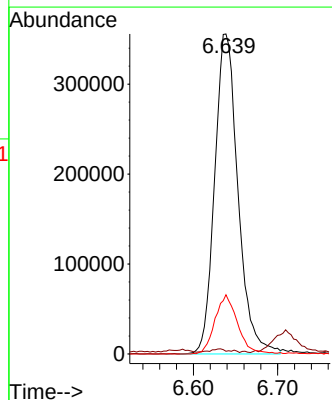
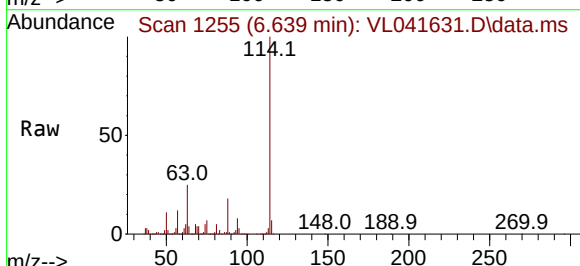
Tgt Ion: 63 Resp: 683659

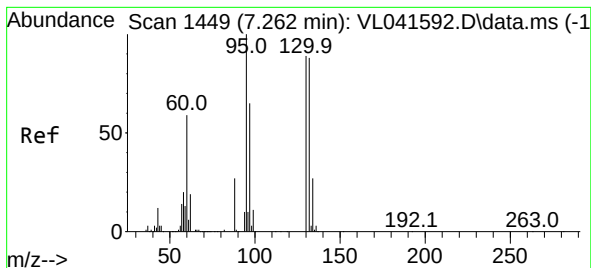
Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 18.5 56.2 84.2#





#40

1,4-Dioxane

Concen: 0.037 ppbv

RT: 7.272 min Scan# 1449

Delta R.T. 0.010 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

ClientSampleId :

Tgt Ion: 88 Resp: 1084

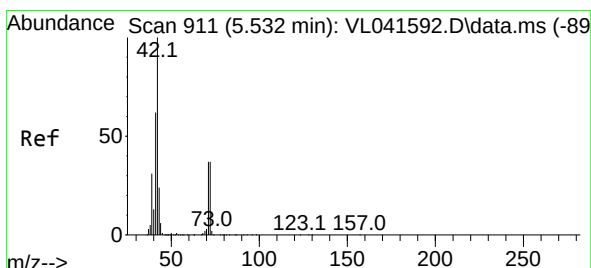
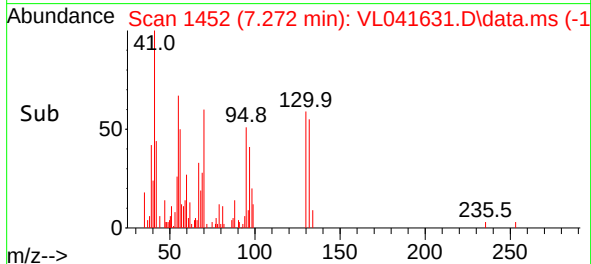
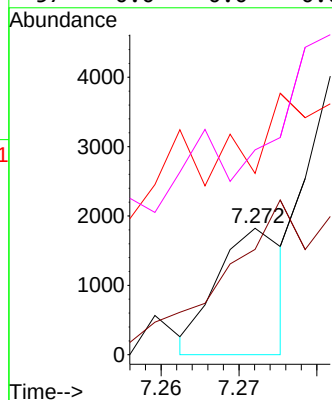
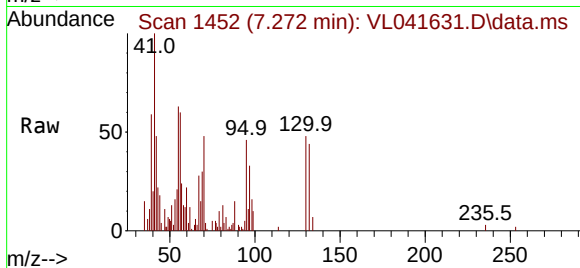
Ion Ratio Lower Upper

88 100

58 0.0 100.2 150.4#

43 0.0 0.0 0.0

57 0.0 0.0 0.0



#41

Tetrahydrofuran

Concen: 0.840 ppbv

RT: 5.536 min Scan# 912

Delta R.T. 0.003 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

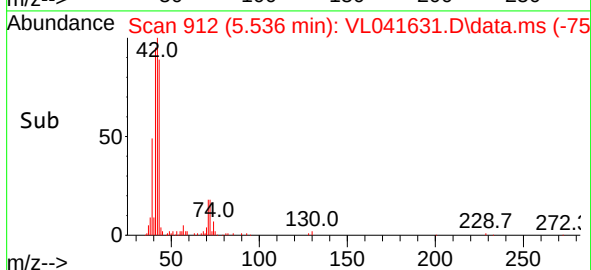
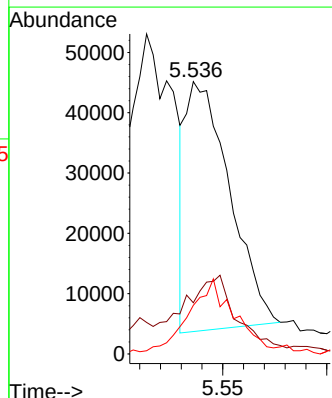
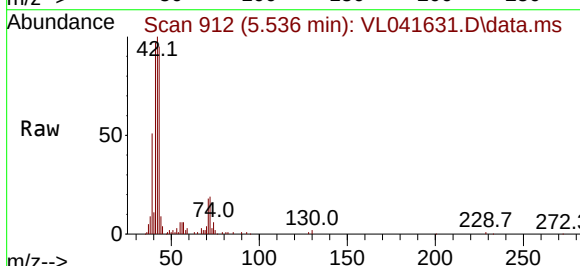
Tgt Ion: 42 Resp: 60469

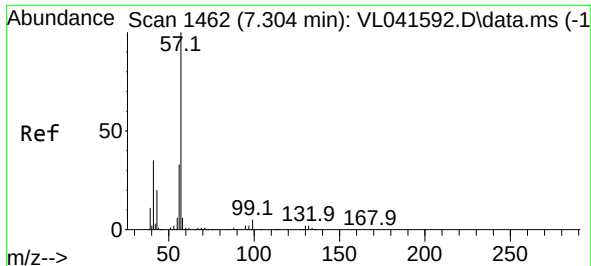
Ion Ratio Lower Upper

42 100

72 56.3 30.2 45.2#

71 34.8 29.6 44.4

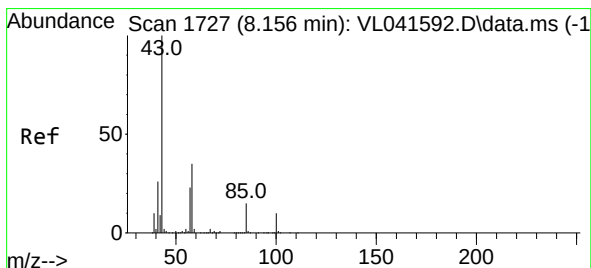
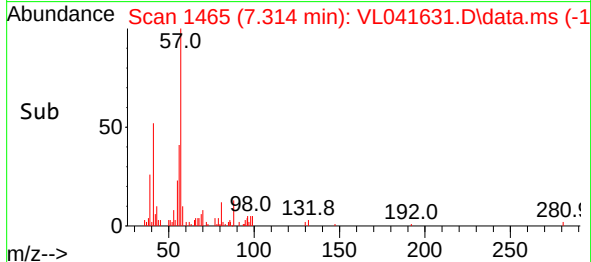
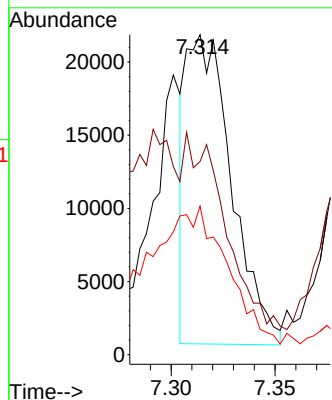
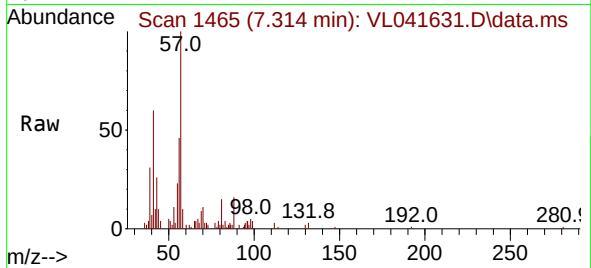




#44  
2,2,4-Trimethylpentane  
Concen: 0.098 ppbv  
RT: 7.314 min Scan# 1465  
Delta R.T. 0.010 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

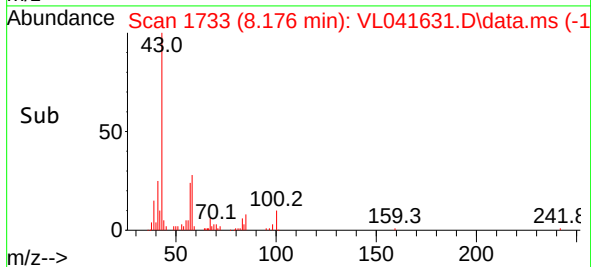
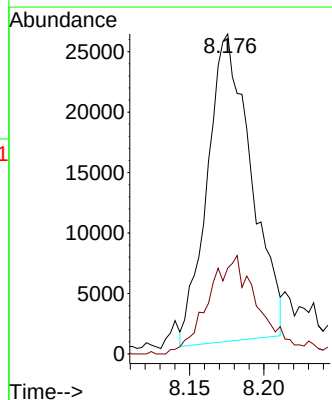
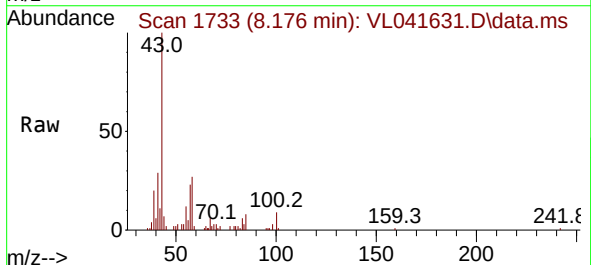
Instrument :  
MSVOA\_L  
ClientSampleId :

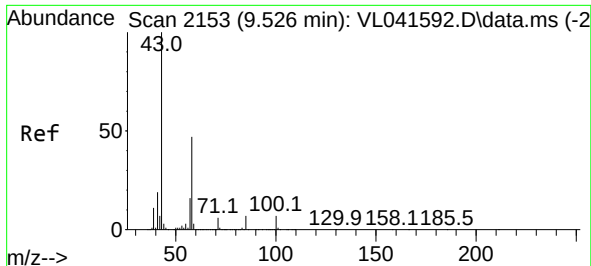
Tgt Ion: 57 Resp: 32252  
Ion Ratio Lower Upper  
57 100  
41 0.0 27.0 40.6#  
56 83.6 25.5 38.3#



#50  
4-Methyl-2-Pentanone  
Concen: 0.259 ppbv  
RT: 8.176 min Scan# 1733  
Delta R.T. 0.019 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 43 Resp: 52351  
Ion Ratio Lower Upper  
43 100  
58 37.7 27.8 41.8

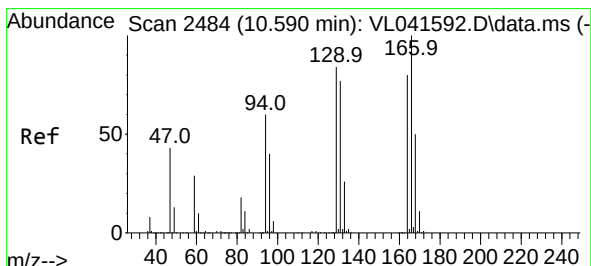
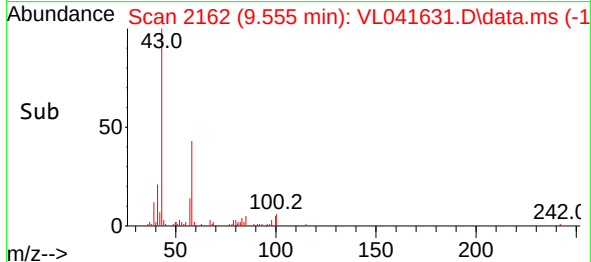
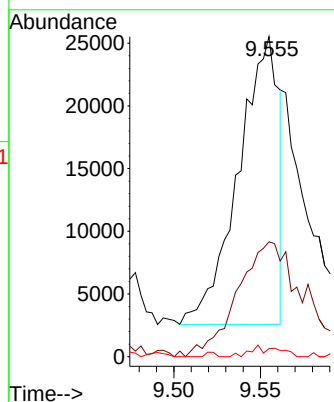
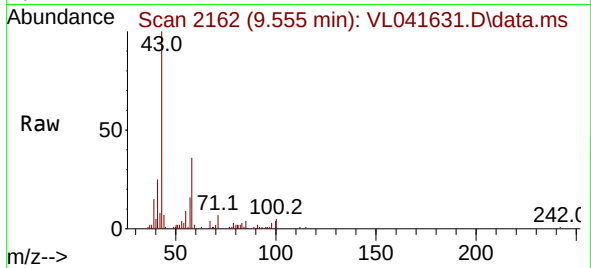




#51  
2-Hexanone  
Concen: 0.244 ppbv  
RT: 9.555 min Scan# 2153  
Delta R.T. 0.029 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

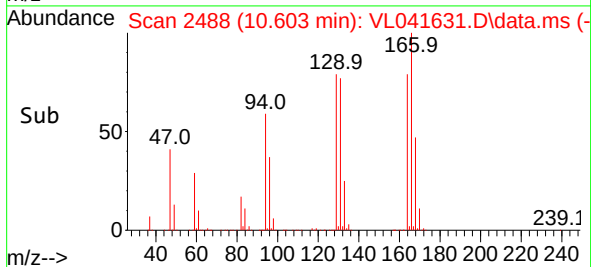
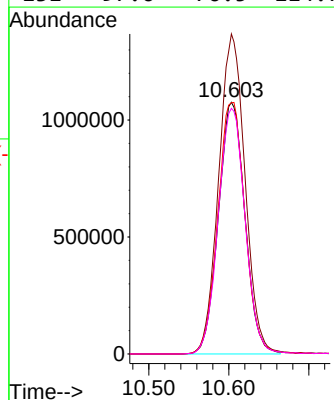
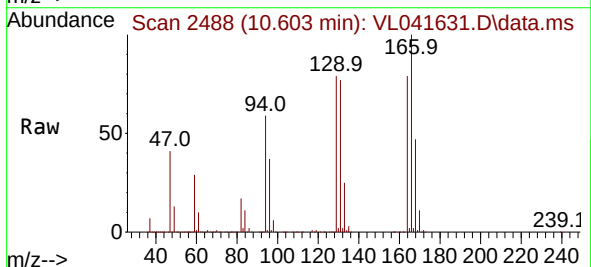
Instrument :  
MSVOA\_L  
ClientSampleId :

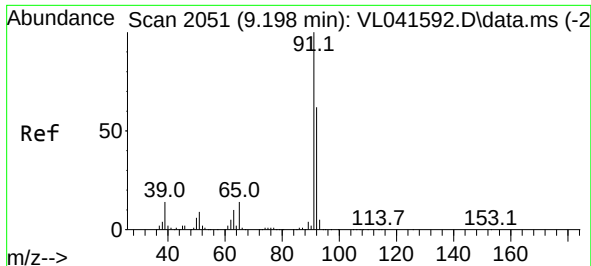
Tgt Ion: 43 Resp: 37217  
Ion Ratio Lower Upper  
43 100  
58 70.1 37.2 55.8#  
98 3.4 0.5 0.7#



#52  
Tetrachloroethene  
Concen: 35.802 ppbv  
RT: 10.603 min Scan# 2488  
Delta R.T. 0.013 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion:164 Resp: 2470568  
Ion Ratio Lower Upper  
164 100  
166 127.1 99.4 149.2  
129 99.8 83.5 125.3  
131 97.6 76.5 114.7

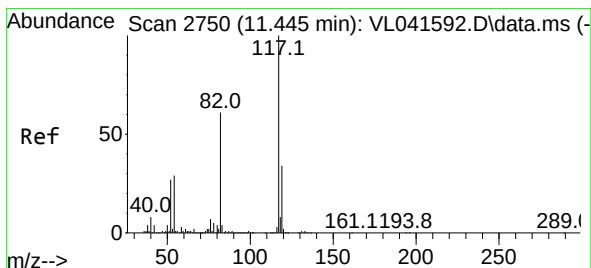
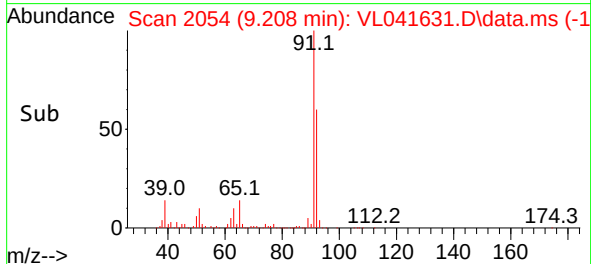
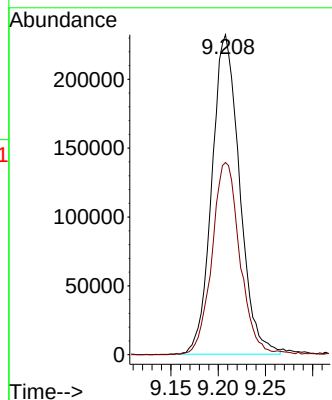
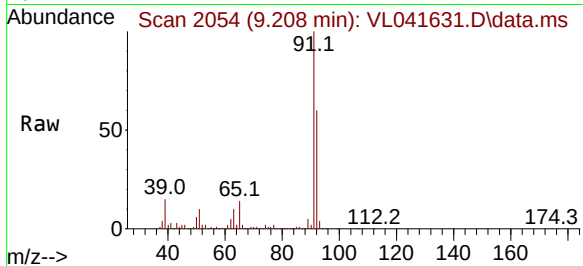




#53  
Toluene  
Concen: 2.335 ppbv  
RT: 9.208 min Scan# 2051  
Delta R.T. 0.010 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

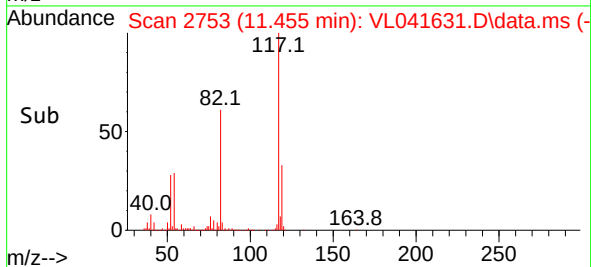
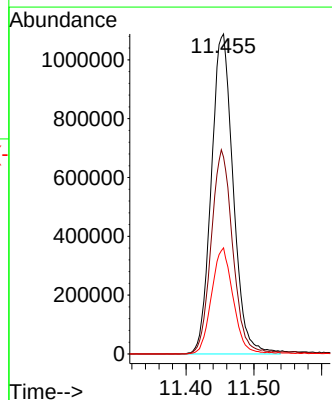
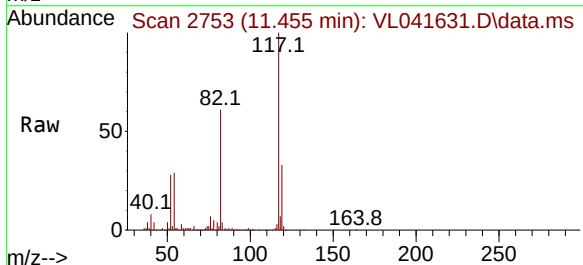
Instrument :  
MSVOA\_L  
ClientSampleId :

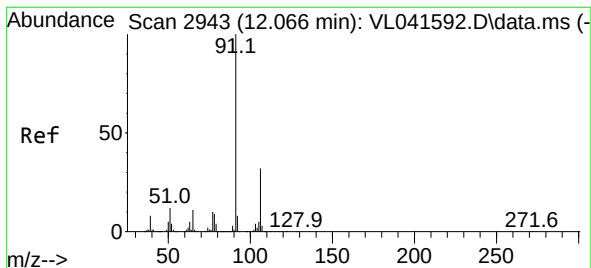
Tgt Ion: 91 Resp: 472293  
Ion Ratio Lower Upper  
91 100  
92 61.3 48.9 73.3



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.455 min Scan# 2753  
Delta R.T. 0.010 min  
Lab File: VL041631.D  
Acq: 25 Sep 2024 22:36

Tgt Ion: 117 Resp: 2439768  
Ion Ratio Lower Upper  
117 100  
82 64.1 49.4 74.2  
119 33.4 24.4 36.6





#58

Ethyl Benzene

Concen: 0.163 ppbv

RT: 12.073 min Scan# 2945

Delta R.T. 0.007 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

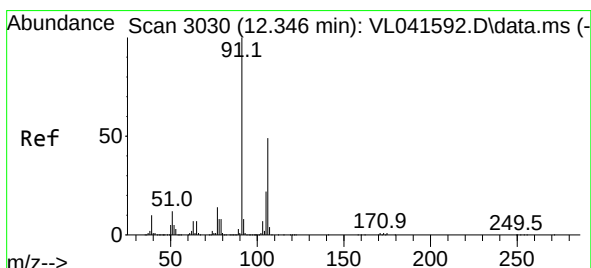
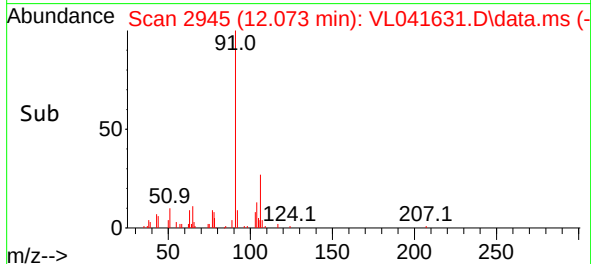
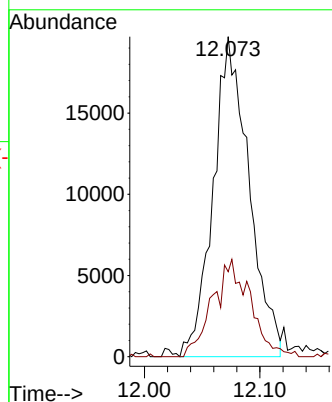
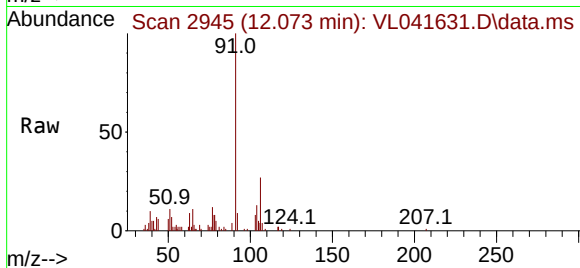
ClientSampleId :

Tgt Ion: 91 Resp: 42466

Ion Ratio Lower Upper

91 100

106 26.6 25.8 38.6



#59

m/p-Xylene

Concen: 0.091 ppbv

RT: 12.349 min Scan# 3031

Delta R.T. 0.003 min

Lab File: VL041631.D

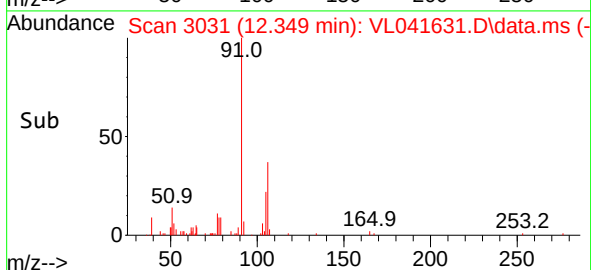
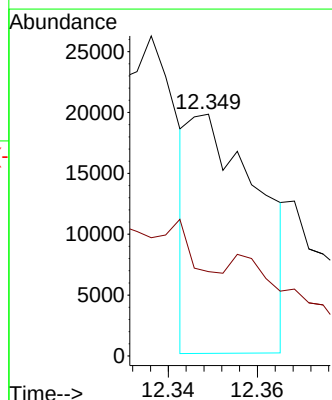
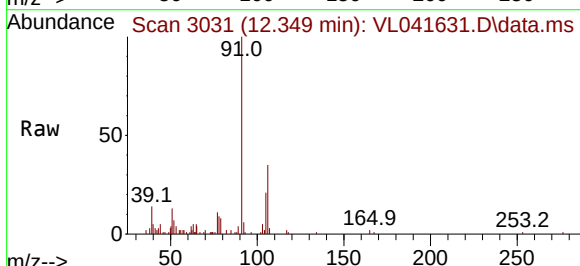
Acq: 25 Sep 2024 22:36

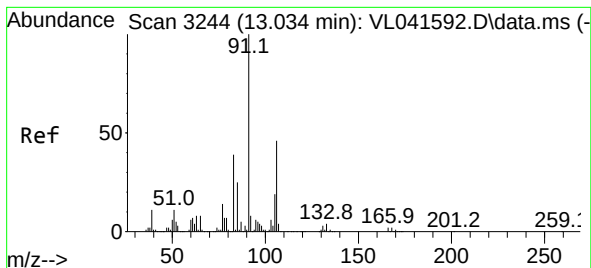
Tgt Ion: 91 Resp: 21188

Ion Ratio Lower Upper

91 100

106 169.0 36.8 55.2#





#60

o-Xylene

Concen: 0.046 ppbv

RT: 13.047 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA\_L

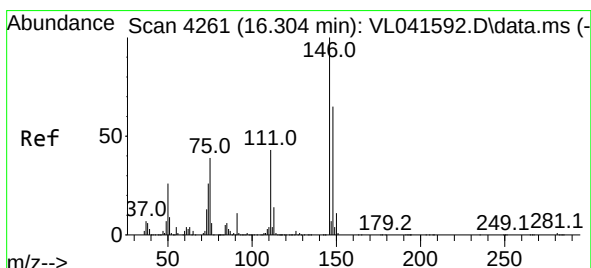
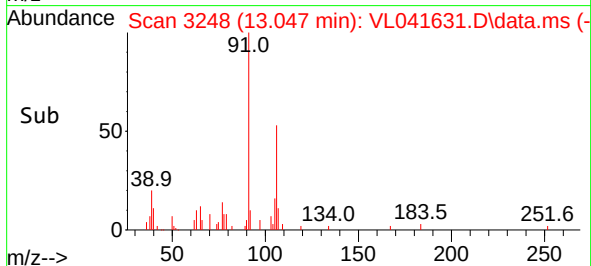
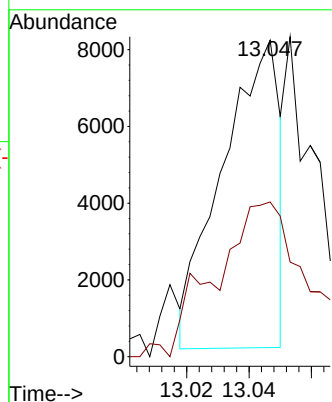
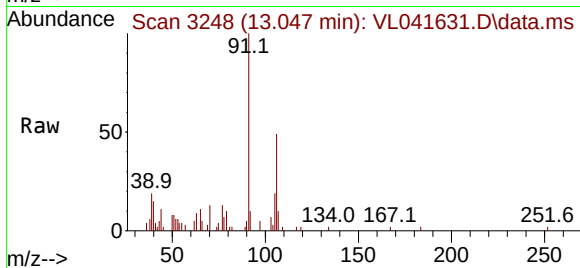
ClientSampleId :

Tgt Ion: 91 Resp: 10264

Ion Ratio Lower Upper

91 100

106 83.7 23.1 69.3#



#66

Benzyl Chloride

Concen: 0.031 ppbv

RT: 16.310 min Scan# 4263

Delta R.T. 0.007 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

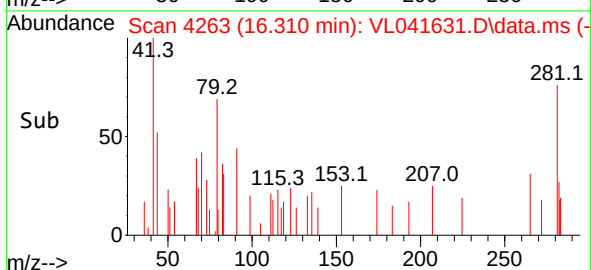
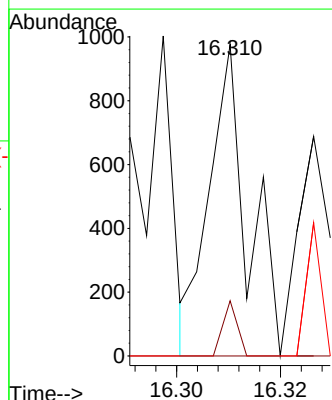
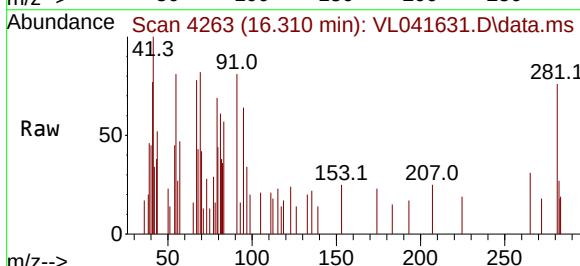
Tgt Ion: 91 Resp: 499

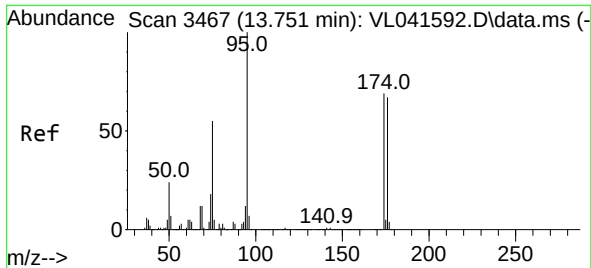
Ion Ratio Lower Upper

91 100

126 0.0 15.4 23.2#

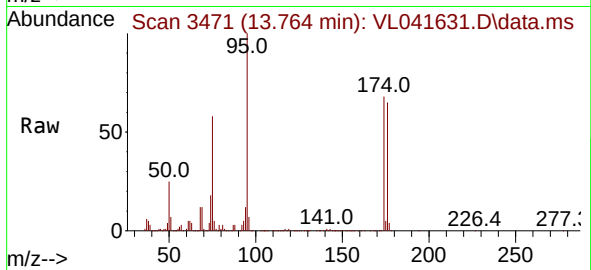
128 0.0 4.8 7.2#





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.782 ppbv  
 RT: 13.764 min Scan# 34  
 Delta R.T. 0.013 min  
 Lab File: VL041631.D  
 Acq: 25 Sep 2024 22:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :



Tgt Ion: 95 Resp: 1756769

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 72.1  | 55.8  | 83.8  |
| 175 | 5.1   | 4.1   | 6.1   |

