

Data File : VL034646.D  
Acq On : 19 Feb 2020 9:22  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Quant Time: Feb 20 00:50:29 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL013020AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 30 17:16:44 2020  
QLast Update : Thu Jan 30 17:16:44 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 940386   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 1937081  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2538674  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 1774297  | 8.27     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.70% |

| Target Compounds               |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.01 | 85  | 1607400 | 7.761  | ppbv   | 96     |
| 3) Chlorodifluoromethane       | 2.95 | 51  | 1156243 | 10.175 | ppbv   | 100    |
| 4) Chloromethane               | 3.10 | 50  | 704168  | 10.128 | ppbv   | 97     |
| 5) Vinyl Chloride              | 3.22 | 62  | 660055  | 9.939  | ppbv   | 98     |
| 6) Bromomethane                | 3.44 | 94  | 366194  | 10.602 | ppbv   | 100    |
| 7) Chloroethane                | 3.52 | 64  | 255373  | 10.341 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane   | 3.15 | 85  | 1657503 | 10.238 | ppbv   | 98     |
| 9) Propene                     | 2.97 | 41  | 446881  | 10.101 | ppbv   | 98     |
| 10) Heptane                    | 8.13 | 43  | 1184559 | 10.639 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.92 | 101 | 1948486 | 10.356 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101 | 1310487 | 10.675 | ppbv   | 99     |
| 13) Ethanol                    | 3.57 | 45  | 109095  | 9.206  | ppbv   | 95     |
| 14) Bromoethene                | 3.71 | 108 | 519596  | 10.790 | ppbv   | 98     |
| 15) Acetone                    | 3.82 | 43  | 1328333 | 9.611  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.29 | 39  | 585950  | 10.676 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.27 | 59  | 1276873 | 12.563 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.26 | 96  | 573021  | 11.057 | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.94 | 45  | 990107  | 12.276 | ppbv # | 98     |
| 20) Methylene Chloride         | 4.32 | 84  | 501516  | 9.530  | ppbv   | 97     |
| 21) Allyl Chloride             | 4.39 | 41  | 919199  | 10.709 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96  | 594791  | 10.959 | ppbv   | 96     |
| 23) Vinyl Acetate              | 5.06 | 43  | 1627860 | 10.324 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.00 | 63  | 1348595 | 10.244 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.67 | 43  | 2228817 | 9.961  | ppbv   | 100    |
| 26) Hexane                     | 5.68 | 57  | 968967  | 10.339 | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.53 | 76  | 1476541 | 11.676 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 1664955 | 10.417 | ppbv   | 100    |
| 29) Chloroform                 | 5.75 | 83  | 1673375 | 10.098 | ppbv   | 100    |
| 30) Cyclohexane                | 7.13 | 84  | 760080  | 10.945 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1021479 | 10.490 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 1753270 | 9.853  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.23 | 43  | 1388822 | 9.874  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 1903823 | 10.280 | ppbv   | 99     |
| 36) Benzene                    | 6.90 | 78  | 1799382 | 10.445 | ppbv   | 96     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1463613 | 10.184 | ppbv   | 100    |
| 38) Trichloroethene            | 7.85 | 130 | 791905  | 10.906 | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 722763  | 10.121 | ppbv   | 97     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 302668  | 11.026 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.04 | 42  | 740691  | 10.095 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.80 | 83  | 1838064 | 10.391 | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 765249  | 11.045 | ppbv   | 98     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

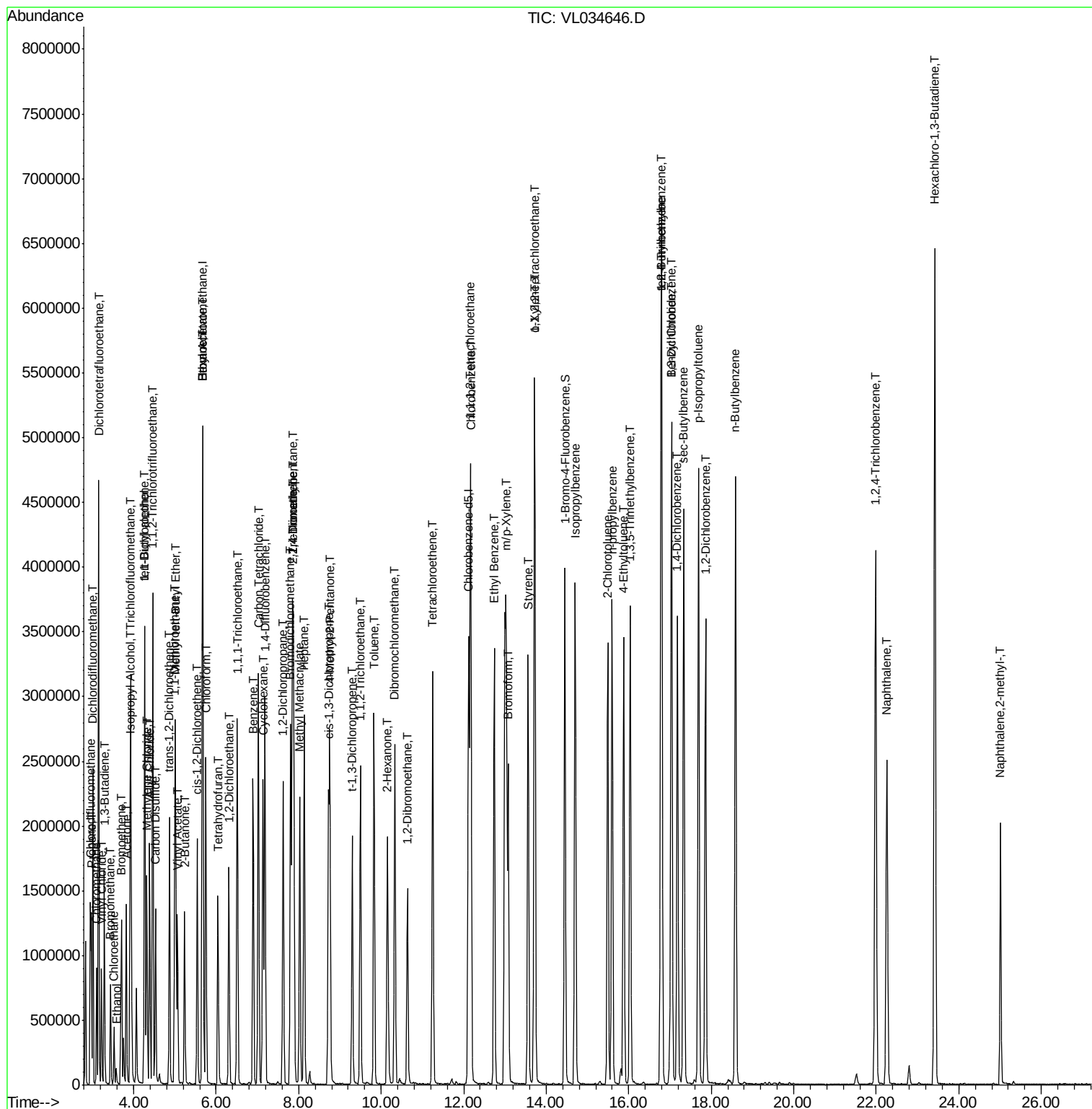
Quant Time: Feb 20 00:50:29 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL013020AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 30 17:16:44 2020  
QLast Update : Thu Jan 30 17:16:44 2020  
Response via : Initial Calibration

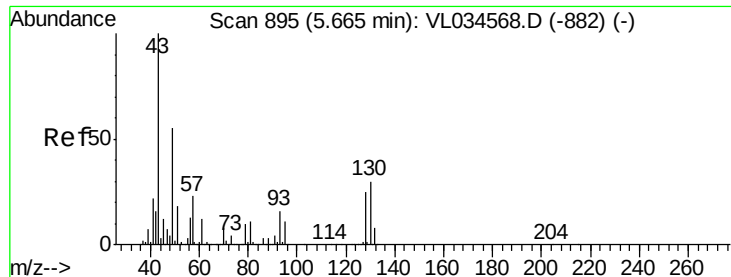
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 3221910  | 10.309 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 1071451  | 11.810 | ppbv   | 96       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 1192859  | 11.568 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 9.50  | 97   | 778351   | 10.063 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.33 | 129  | 1516786  | 10.702 | ppbv   | 99       |
| 49) Bromoform                 | 13.08 | 173  | 1317119  | 10.585 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2093265  | 10.436 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.15 | 43   | 1687777  | 10.689 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.25 | 164  | 704591   | 10.182 | ppbv   | 97       |
| 53) Toluene                   | 9.83  | 91   | 2117559  | 11.190 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 1193324  | 10.296 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 1009110  | 8.051  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.18 | 112  | 1671788  | 8.003  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.74 | 91   | 2912990  | 8.575  | ppbv   | 97       |
| 59) m/p-Xylene                | 13.03 | 91   | 2121077  | 7.063  | ppbv # | 9        |
| 60) o-Xylene                  | 13.73 | 91   | 2493410  | 8.268  | ppbv   | 99       |
| 61) Styrene                   | 13.56 | 104  | 1771370  | 8.809  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.70 | 105  | 3228543  | 8.261  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 1726692  | 7.403  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.60 | 120  | 483608   | 4.810  | ppbv   | 76       |
| 65) tert-Butylbenzene         | 16.79 | 119  | 2996899  | 8.464  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.03 | 91   | 1405902  | 9.470  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.33 | 105  | 4137590  | 8.503  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 3514452  | 8.895  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.59 | 91   | 3815871  | 9.098  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 2513003  | 8.471  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.88 | 105  | 2840399  | 8.574  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 2753341  | 8.506  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 2957157  | 8.252  | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 17.04 | 146  | 1720856  | 8.340  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 1726738  | 8.491  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.86 | 146  | 1716317  | 8.659  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 856448   | 4.518  | ppbv # | 16       |
| 79) Naphthalene               | 22.26 | 128  | 3089688  | 10.951 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.01 | 142  | 1048131  | 9.657  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.99 | 180  | 1869861  | 10.751 | ppbv   | 99       |

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration

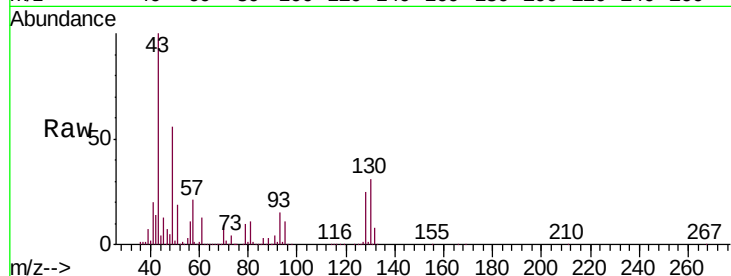




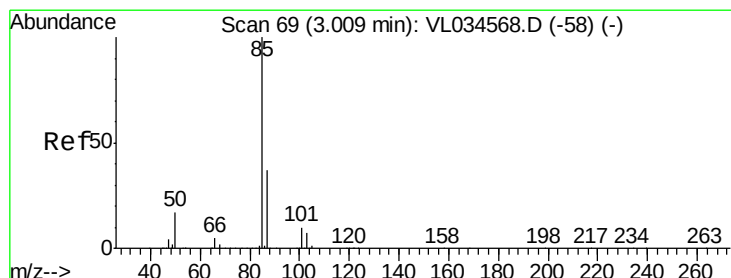
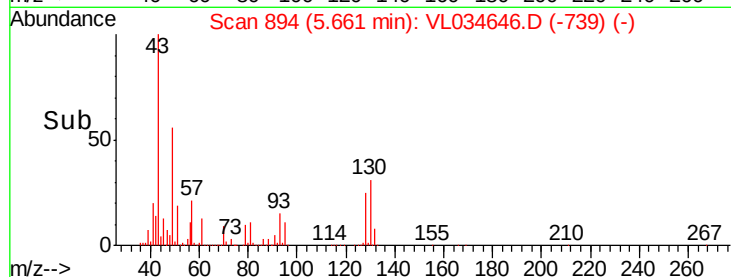
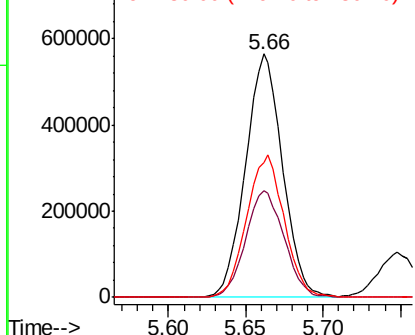
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Instrument :  
MSVOA\_L  
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VSTDCCC010EC

Tgt Ion: 49 Resp: 940386  
Ion Ratio Lower Upper  
49 100  
128 45.8 22.7 68.1  
130 59.6 28.6 85.8

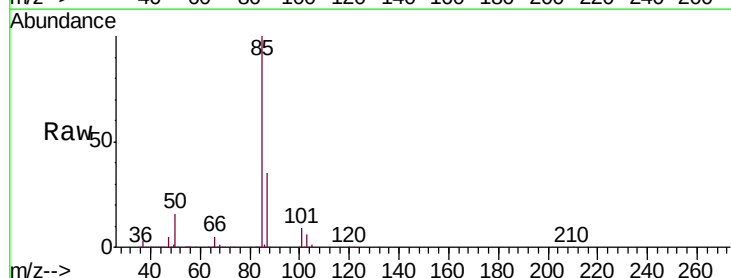


Abundance Ion 49.10 (48.80 to 49.80): VL0  
Ion 128.00 (127.70 to 128.70): V  
Ion 130.00 (129.70 to 130.70): V

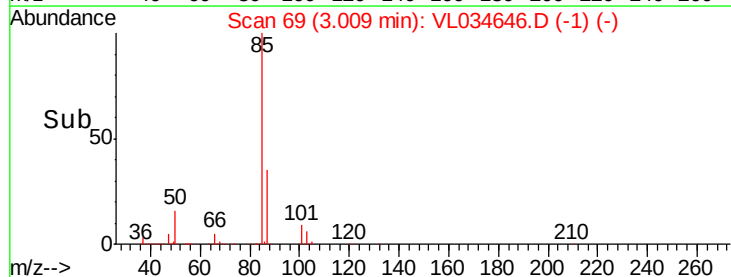
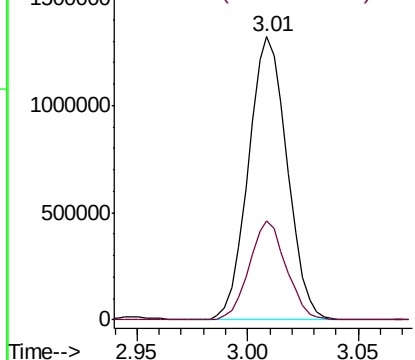


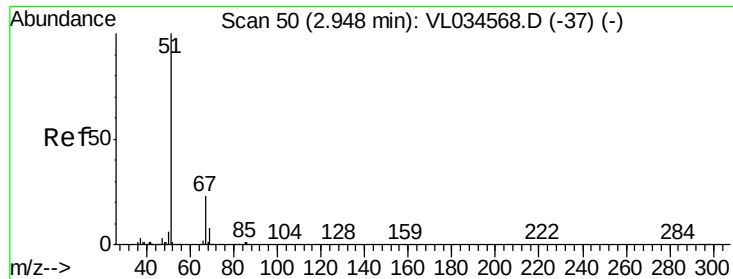
#2  
Dichlorodifluoromethane  
Concen: 7.761 ppbv  
RT: 3.01 min Scan# 69  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Tgt Ion: 85 Resp: 1607400  
Ion Ratio Lower Upper  
85 100  
87 34.8 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0  
Ion 87.00 (86.70 to 87.70): VL0

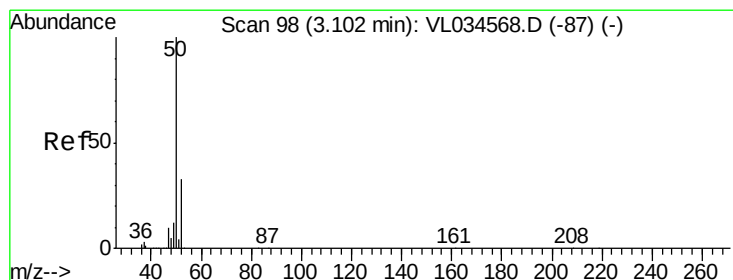
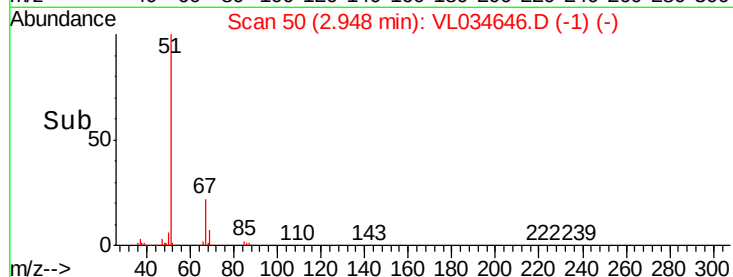
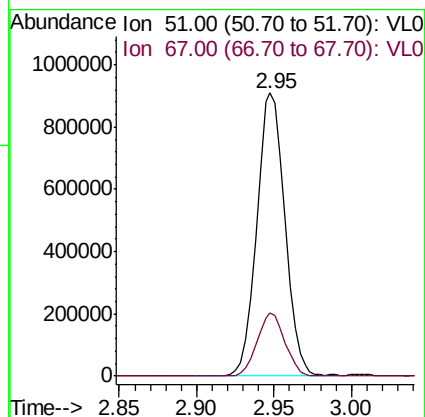
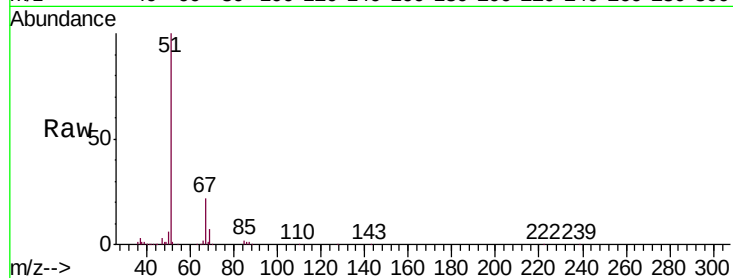




#3  
Chlorodifluoromethane  
Concen: 10.175 ppbv  
RT: 2.95 min Scan# 50  
Delta R.T. 0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

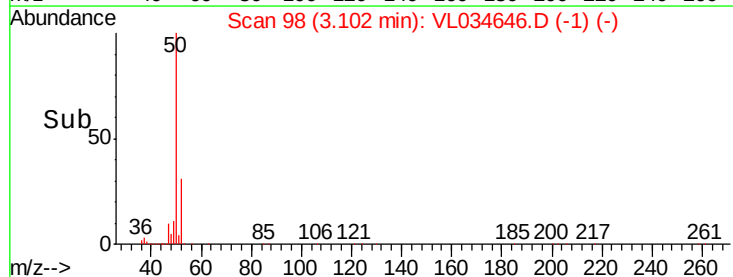
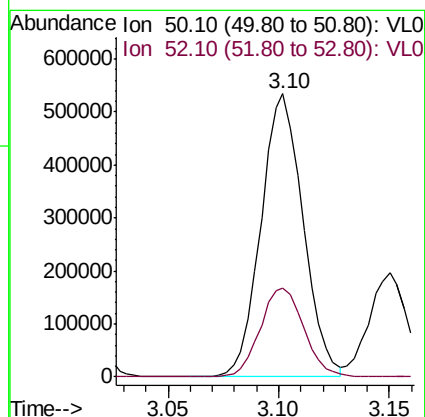
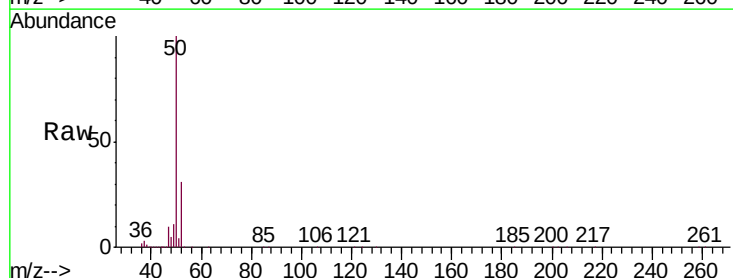
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

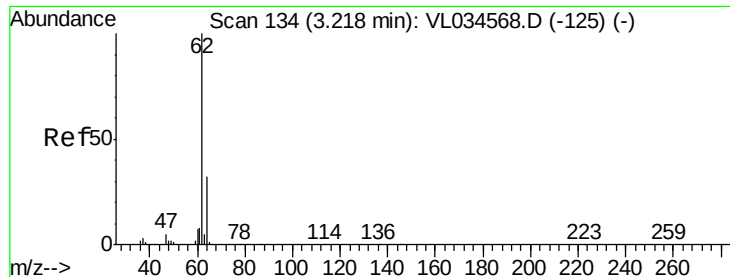
Tgt Ion: 51 Resp: 1156243  
Ion Ratio Lower Upper  
51 100  
67 22.2 17.8 26.8



#4  
Chloromethane  
Concen: 10.128 ppbv  
RT: 3.10 min Scan# 98  
Delta R.T. 0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Tgt Ion: 50 Resp: 704168  
Ion Ratio Lower Upper  
50 100  
52 31.5 26.6 39.8





#5

Vinyl Chloride

Concen: 9.939 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

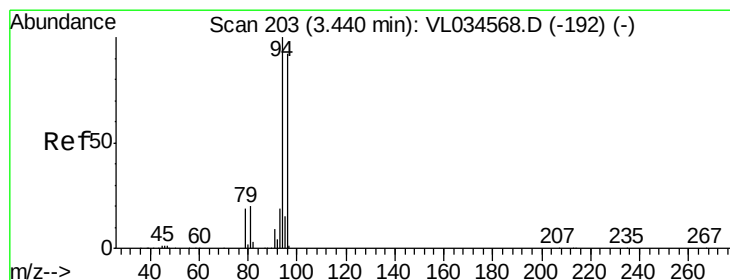
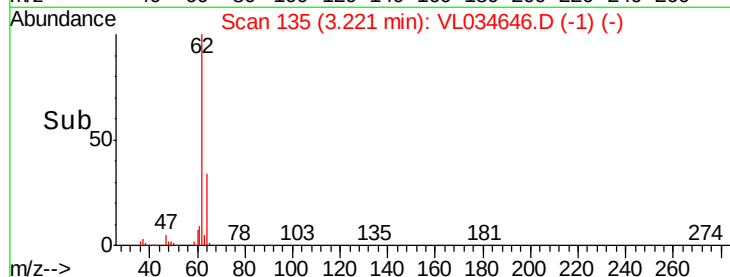
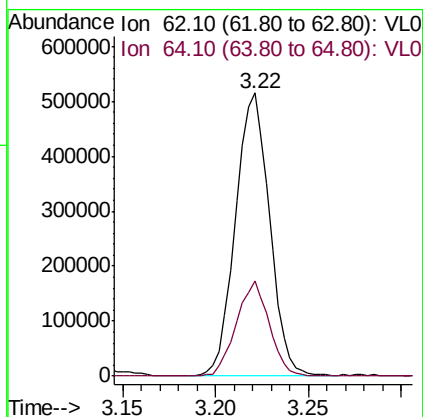
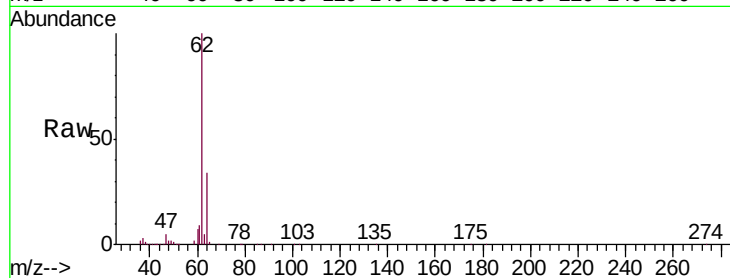
VSTDCCC010EC

Tgt Ion: 62 Resp: 660055

Ion Ratio Lower Upper

62 100

64 33.6 25.8 38.6



#6

Bromomethane

Concen: 10.602 ppbv

RT: 3.44 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL034646.D

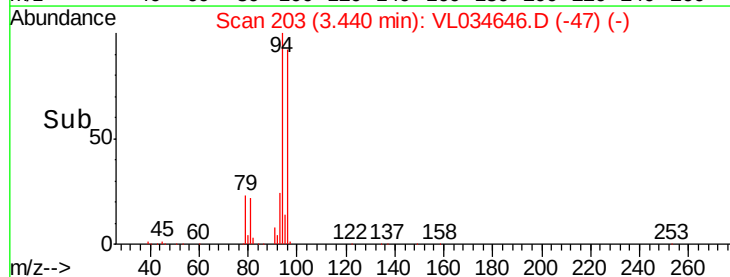
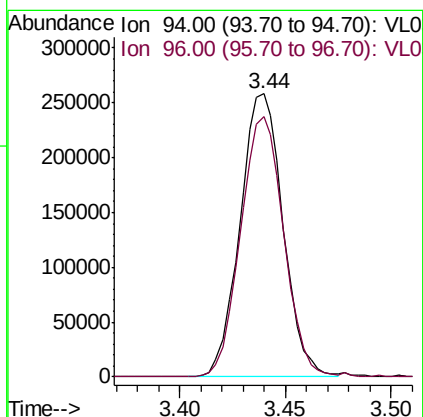
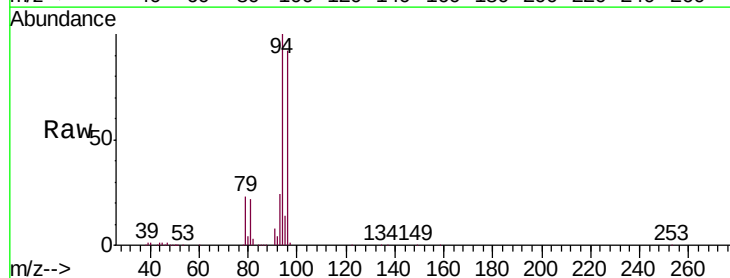
Acq: 19 Feb 2020 9:22

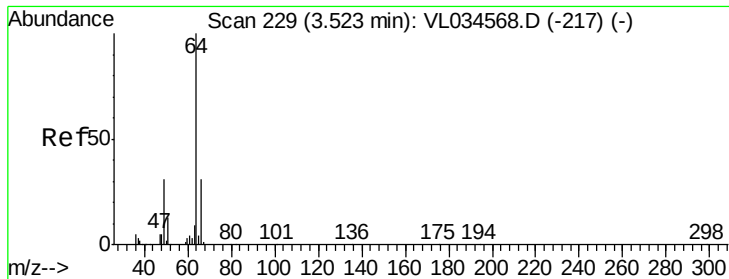
Tgt Ion: 94 Resp: 366194

Ion Ratio Lower Upper

94 100

96 92.2 73.8 110.8





#7

Chloroethane

Concen: 10.341 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

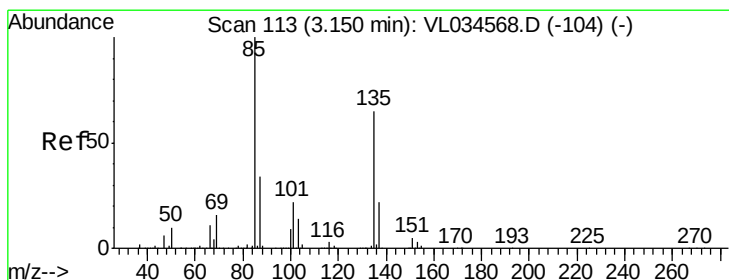
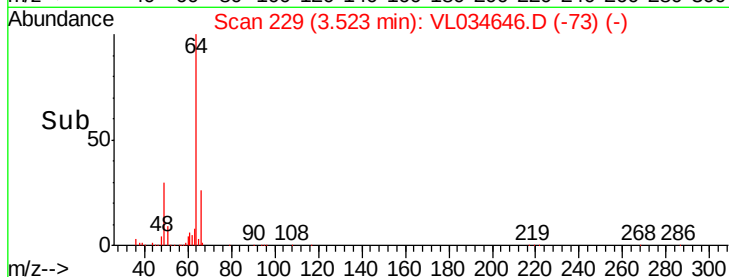
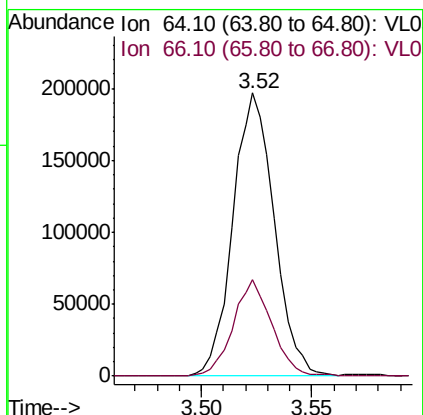
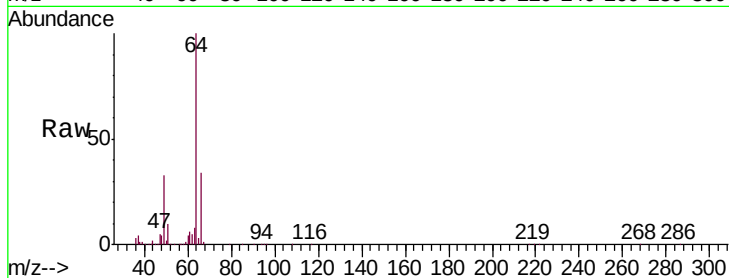
VSTDCCC010EC

Tgt Ion: 64 Resp: 255373

Ion Ratio Lower Upper

64 100

66 34.0 25.0 37.4



#8

Dichlorotetrafluoroethane

Concen: 10.238 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034646.D

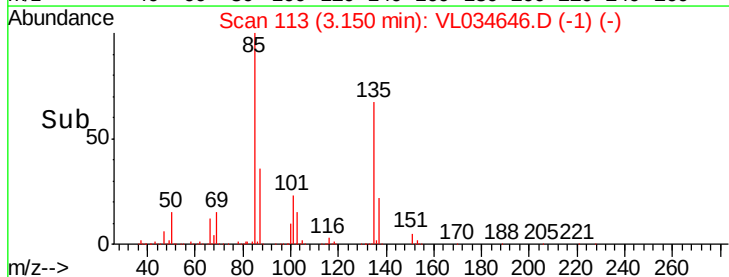
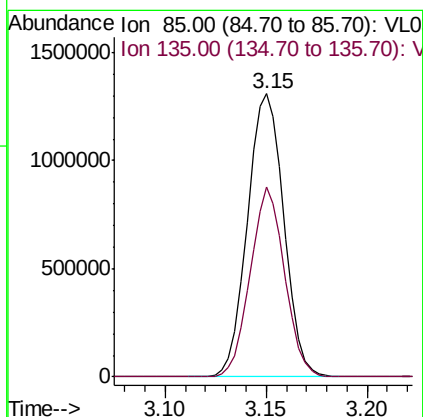
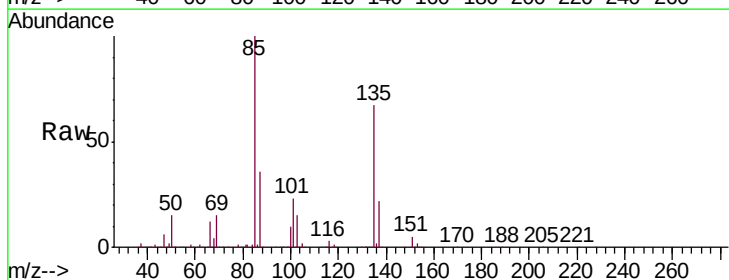
Acq: 19 Feb 2020 9:22

Tgt Ion: 85 Resp: 1657503

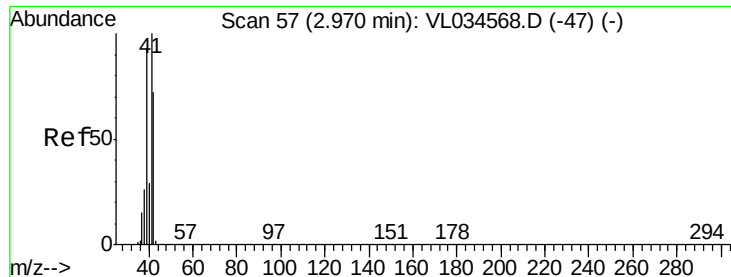
Ion Ratio Lower Upper

85 100

135 63.6 52.2 78.2







#9

Propene

Concen: 10.101 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

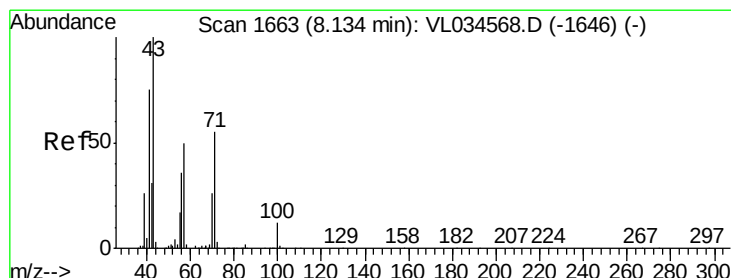
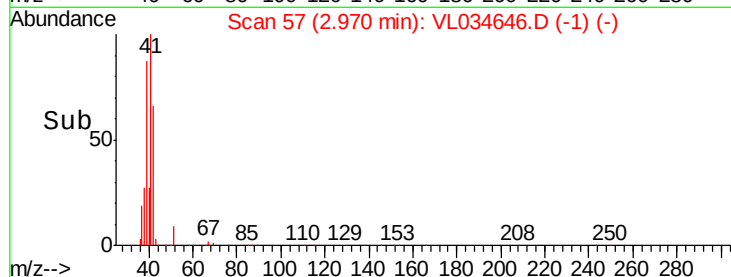
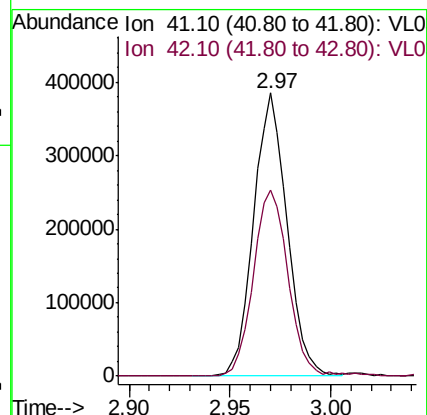
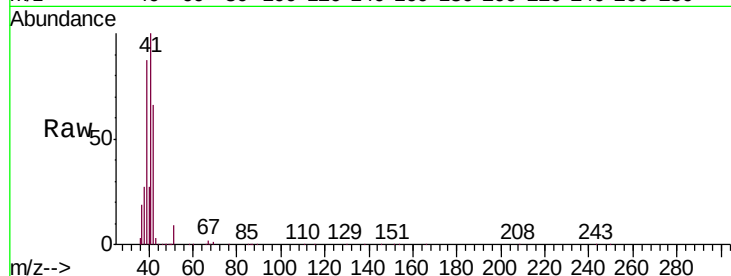
VSTDCCC010EC

Tgt Ion: 41 Resp: 446881

Ion Ratio Lower Upper

41 100

42 69.1 57.0 85.4



#10

Heptane

Concen: 10.639 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034646.D

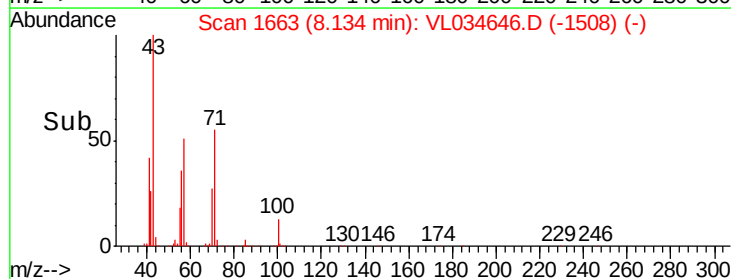
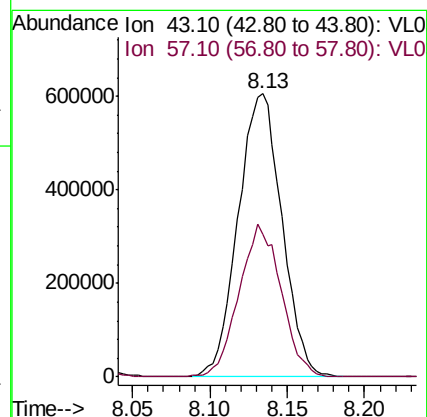
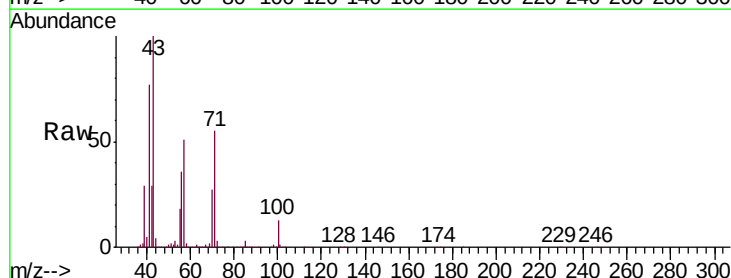
Acq: 19 Feb 2020 9:22

Tgt Ion: 43 Resp: 1184559

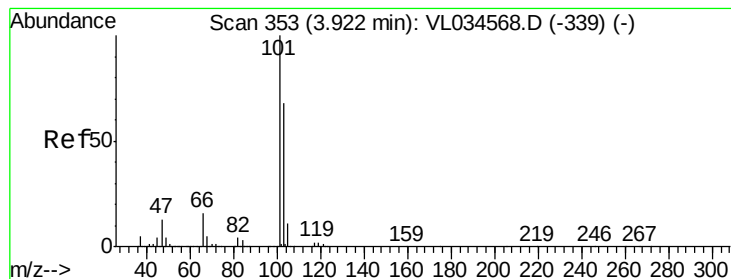
Ion Ratio Lower Upper

43 100

57 52.3 41.2 61.8







#11

Trichlorofluoromethane

Concen: 10.356 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

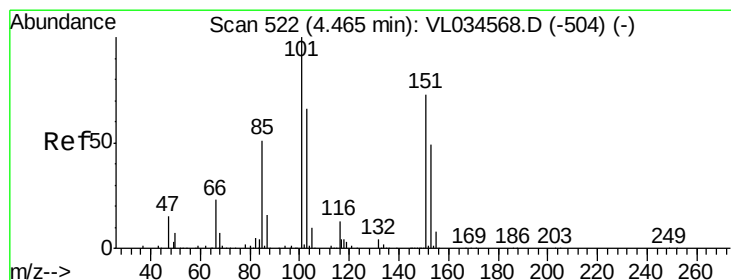
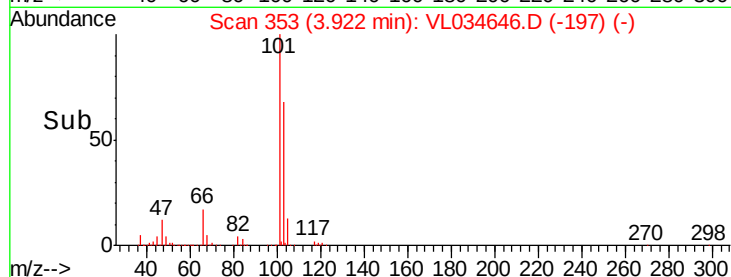
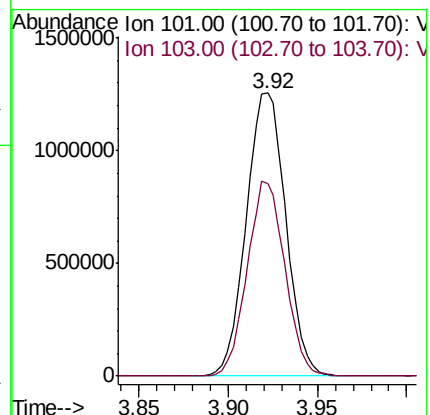
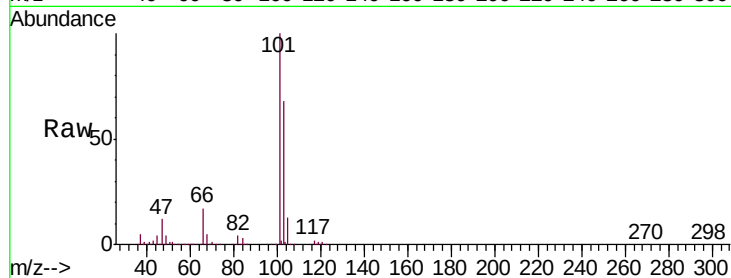
VSTDCCC010EC

Tgt Ion:101 Resp: 1948486

Ion Ratio Lower Upper

101 100

103 68.0 54.4 81.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.675 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034646.D

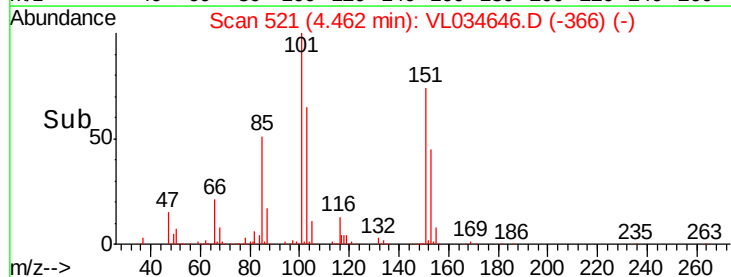
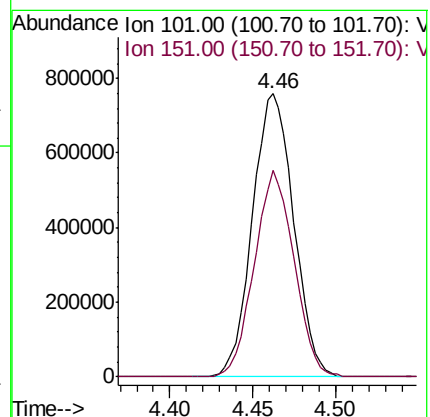
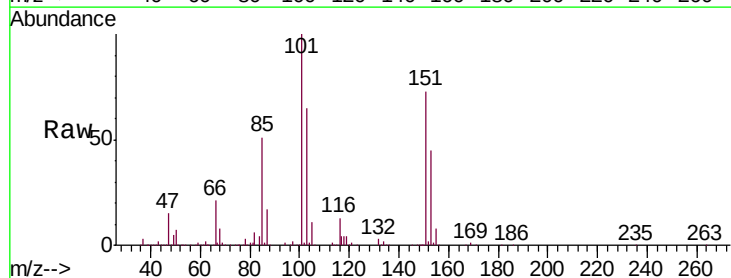
Acq: 19 Feb 2020 9:22

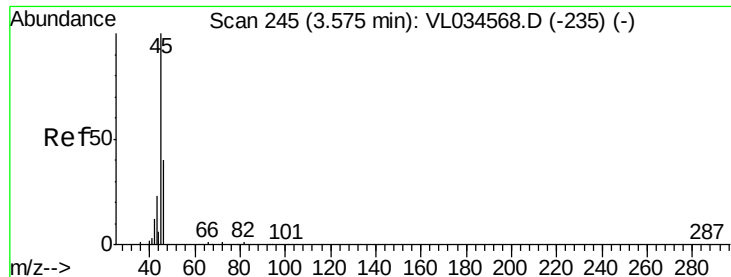
Tgt Ion:101 Resp: 1310487

Ion Ratio Lower Upper

101 100

151 70.5 57.0 85.6





#13

Ethanol

Concen: 9.206 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

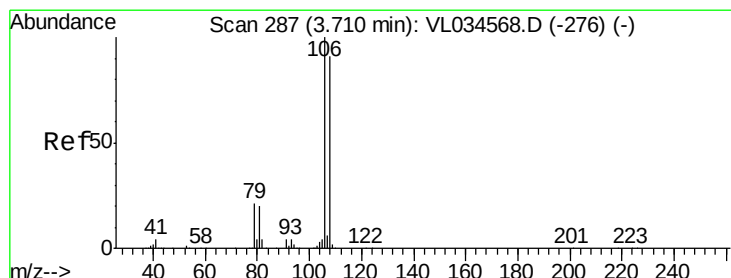
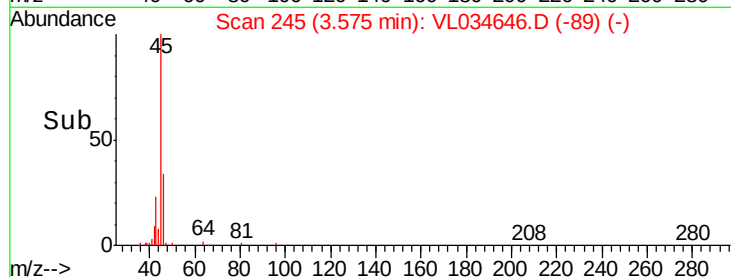
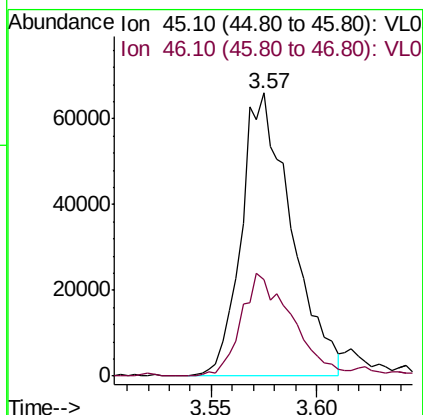
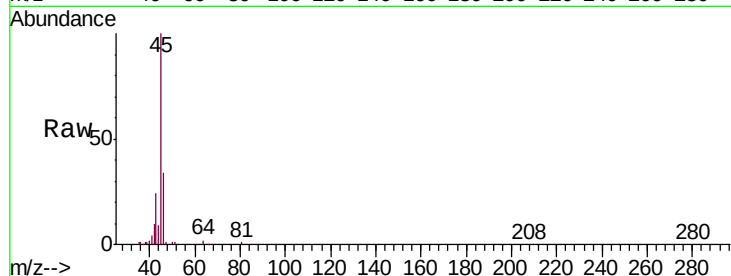
VSTDCCC010EC

Tgt Ion: 45 Resp: 109095

Ion Ratio Lower Upper

45 100

46 39.7 14.8 59.2



#14

Bromoethene

Concen: 10.790 ppbv

RT: 3.71 min Scan# 287

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

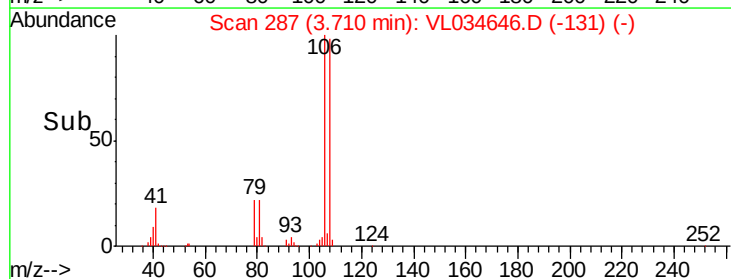
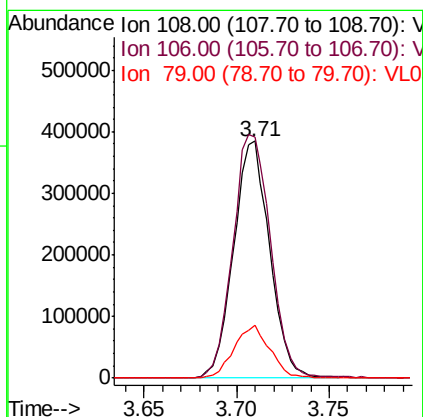
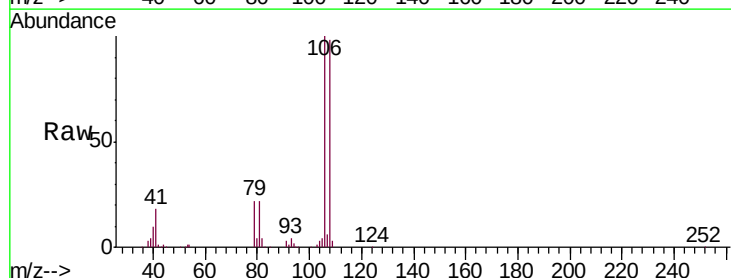
Tgt Ion: 108 Resp: 519596

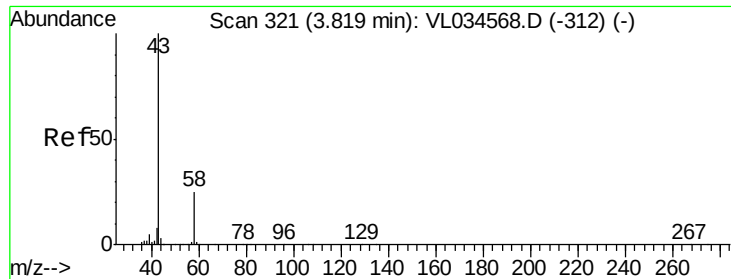
Ion Ratio Lower Upper

108 100

106 107.9 84.6 127.0

79 22.1 18.2 27.2





#15

Acetone

Concen: 9.611 ppbv

RT: 3.82 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

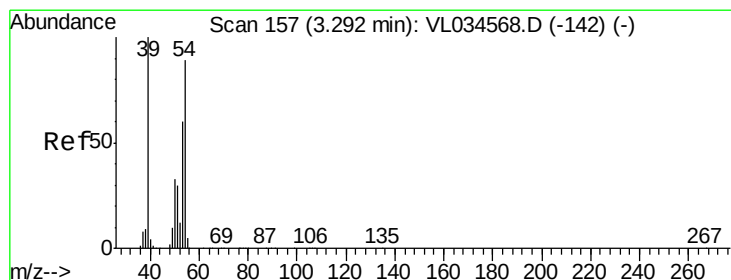
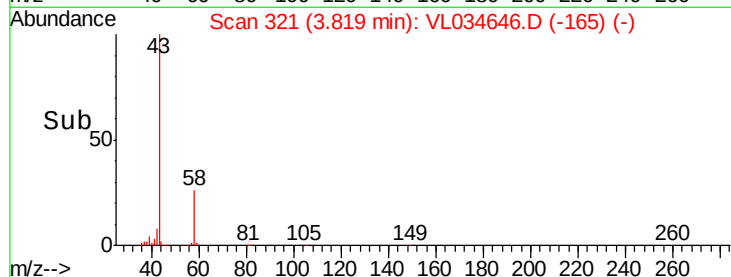
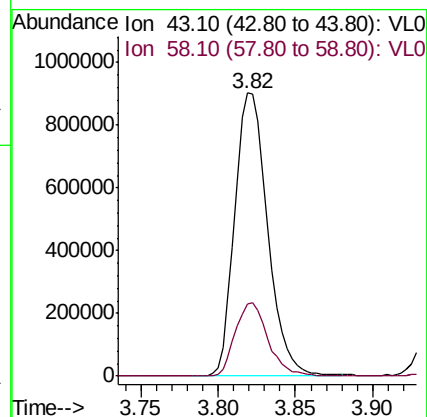
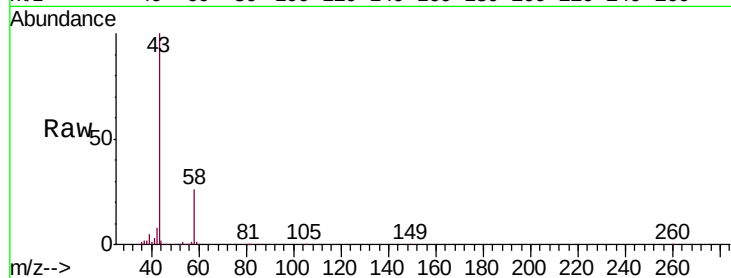
VSTDCCC010EC

Tgt Ion: 43 Resp: 1328333

Ion Ratio Lower Upper

43 100

58 25.8 20.3 30.5



#16

1,3-Butadiene

Concen: 10.676 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.00 min

Lab File: VL034646.D

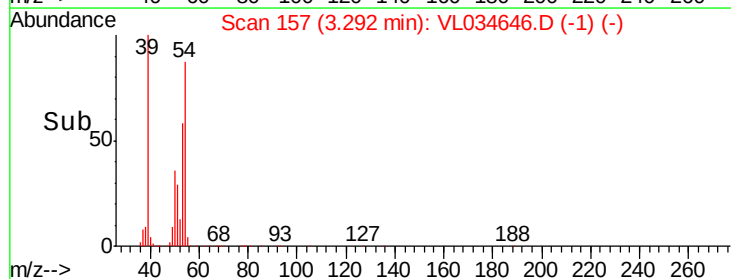
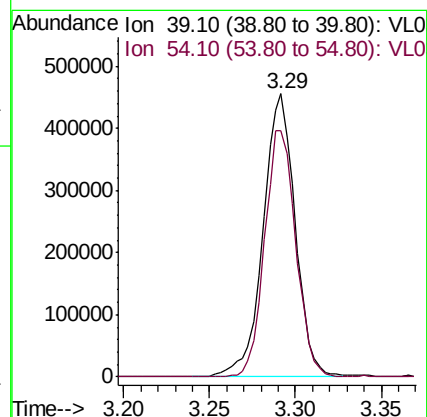
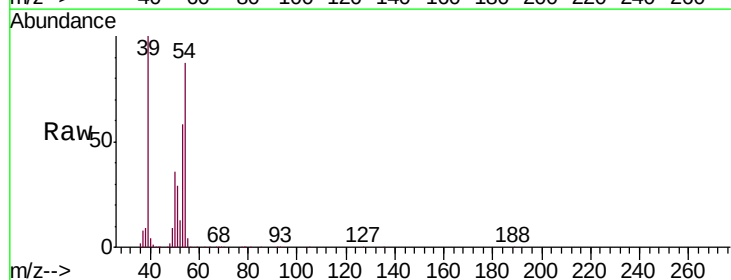
Acq: 19 Feb 2020 9:22

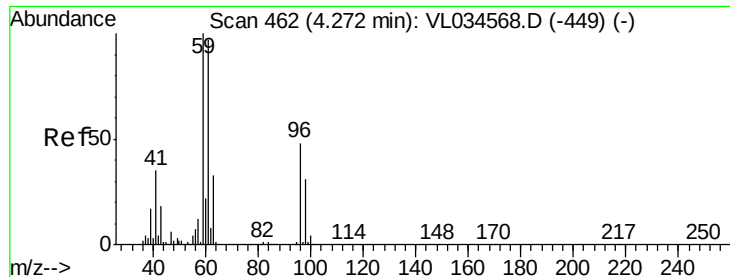
Tgt Ion: 39 Resp: 585950

Ion Ratio Lower Upper

39 100

54 85.5 66.7 100.1





#17

tert-Butyl alcohol

Concen: 12.563 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

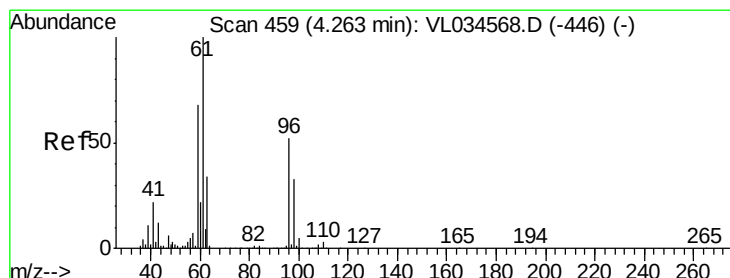
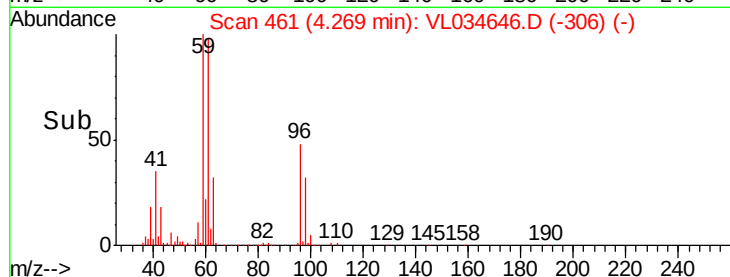
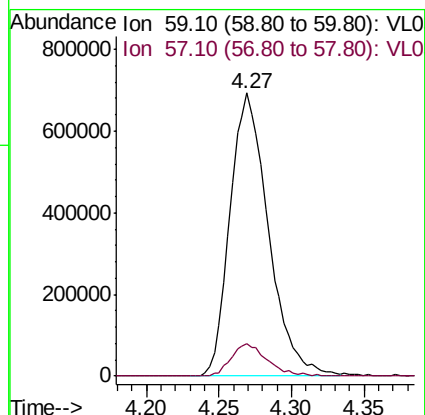
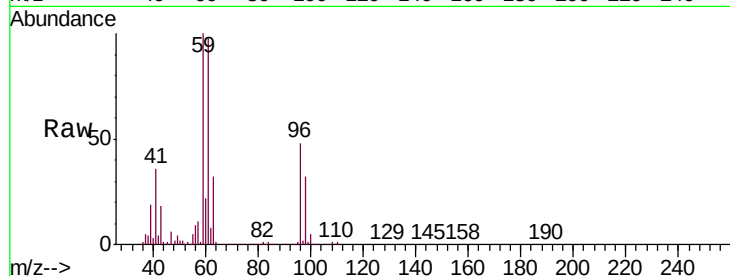
VSTDCCC010EC

Tgt Ion: 59 Resp: 1276873

Ion Ratio Lower Upper

59 100

57 11.0 8.7 13.1



#18

1,1-Dichloroethene

Concen: 11.057 ppbv

RT: 4.26 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

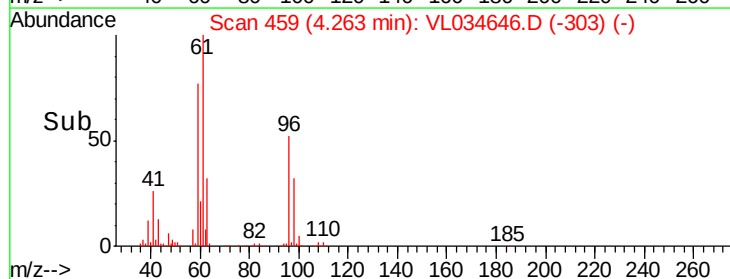
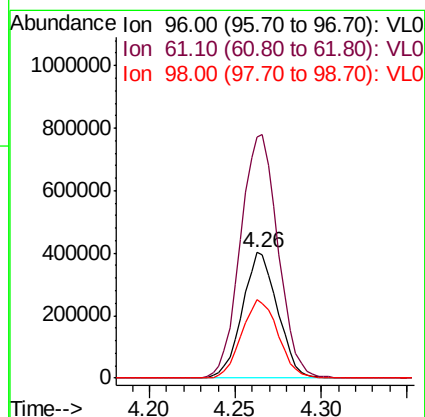
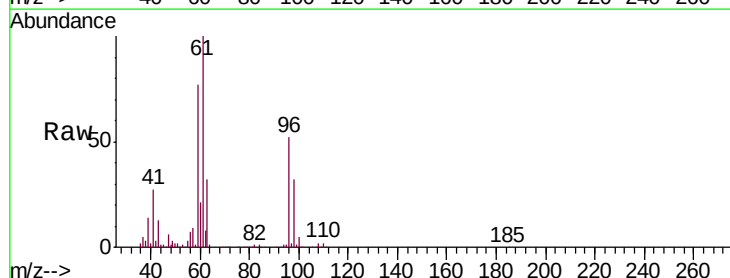
Tgt Ion: 96 Resp: 573021

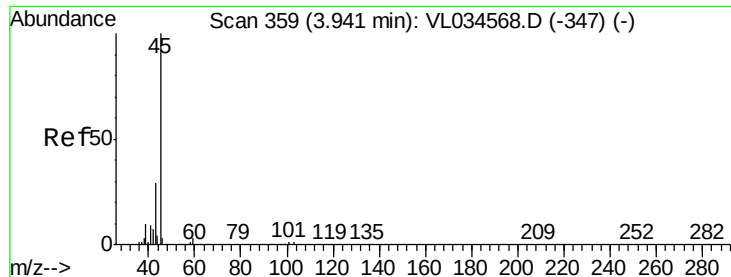
Ion Ratio Lower Upper

96 100

61 192.2 154.5 231.7

98 62.3 50.3 75.5





#19

Isopropyl Alcohol

Concen: 12.276 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

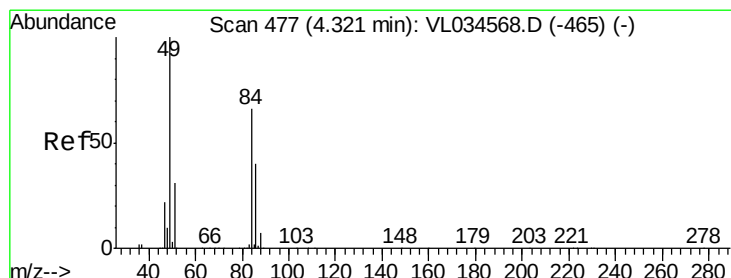
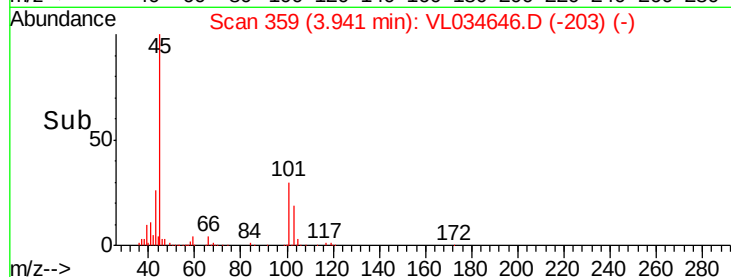
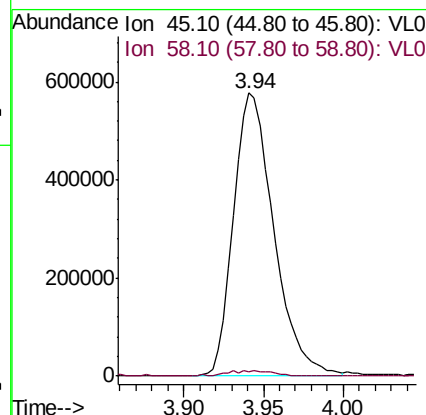
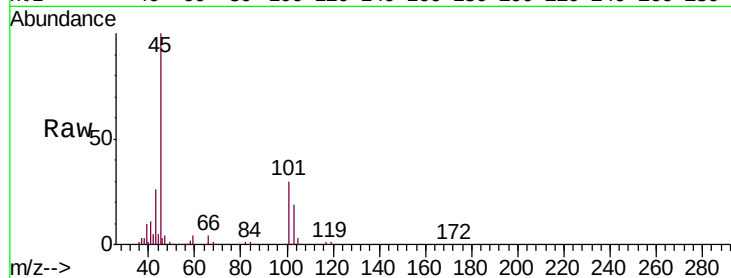
VSTDCCC010EC

Tgt Ion: 45 Resp: 990107

Ion Ratio Lower Upper

45 100

58 2.7 1.7 2.5#



#20

Methylene Chloride

Concen: 9.530 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Tgt Ion: 84 Resp: 501516

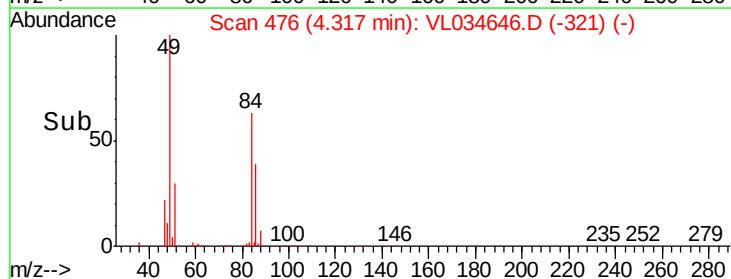
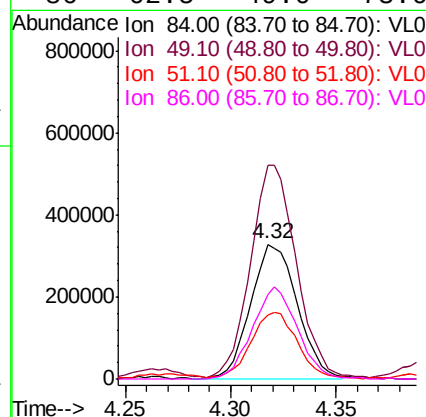
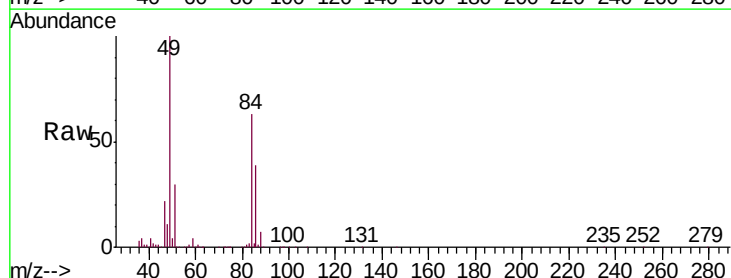
Ion Ratio Lower Upper

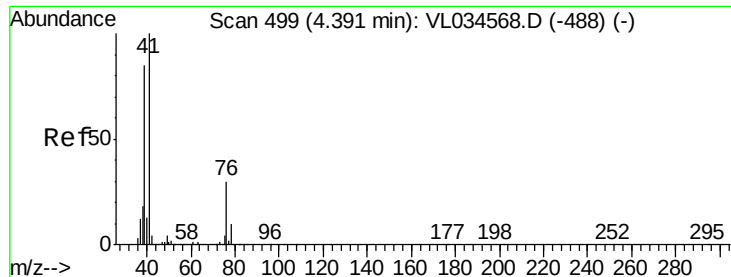
84 100

49 157.5 122.4 183.6

51 46.4 38.6 57.8

86 62.5 49.0 73.6

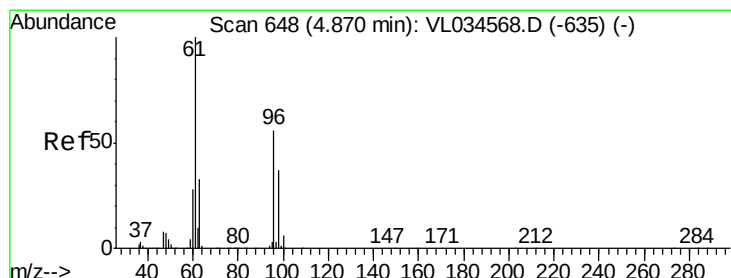
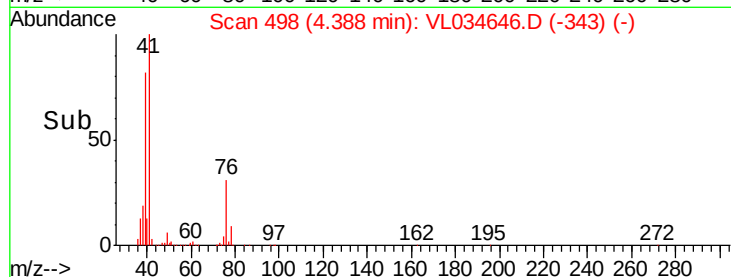
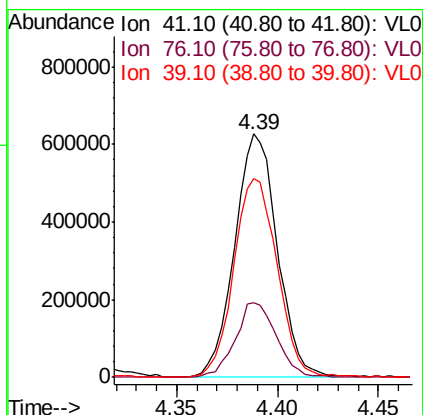
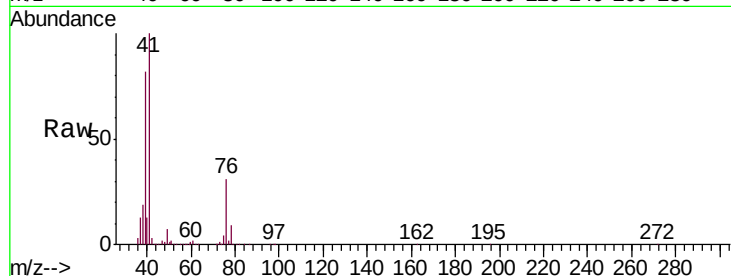




#21  
 Allyl Chloride  
 Concen: 10.709 ppbv  
 RT: 4.39 min Scan# 498  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

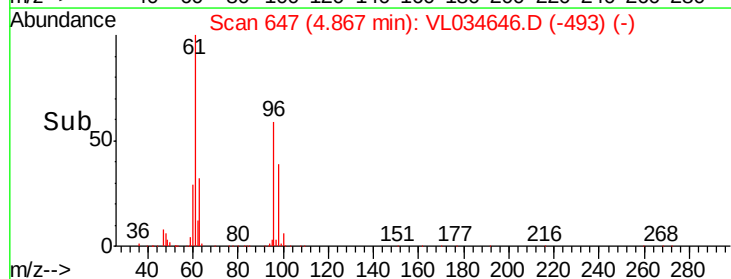
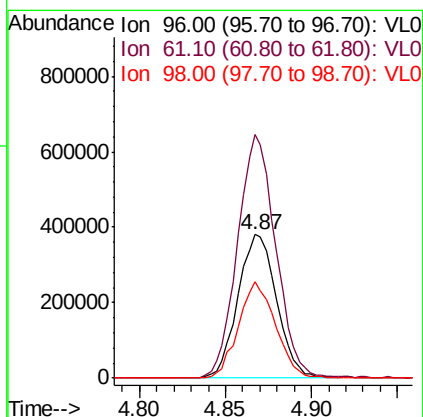
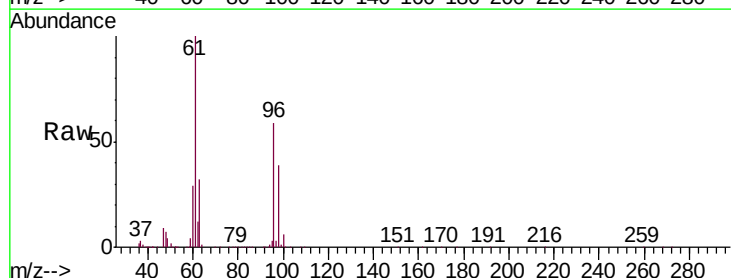
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

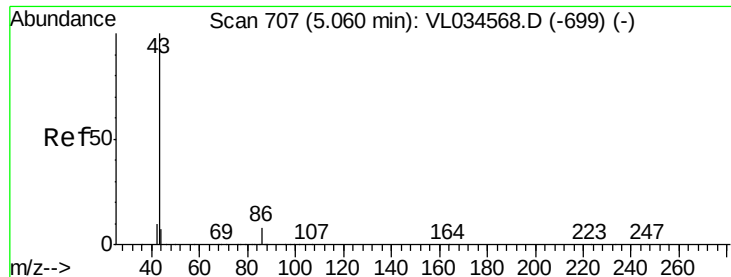
Tgt Ion: 41 Resp: 919199  
 Ion Ratio Lower Upper  
 41 100  
 76 30.0 24.2 36.2  
 39 85.3 68.3 102.5



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.959 ppbv  
 RT: 4.87 min Scan# 647  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 96 Resp: 594791  
 Ion Ratio Lower Upper  
 96 100  
 61 169.7 141.9 212.9  
 98 66.8 53.1 79.7





#23

Vinyl Acetate

Concen: 10.324 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1627860

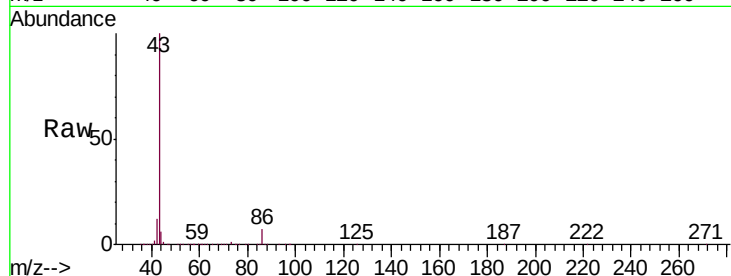
Ion Ratio Lower Upper

43 100

86 7.3 5.9 8.9

42 11.6 8.8 13.2

44 5.7 5.0 7.6

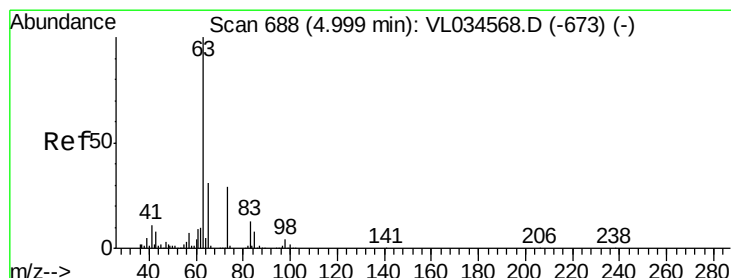
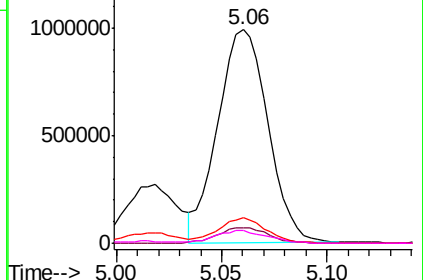
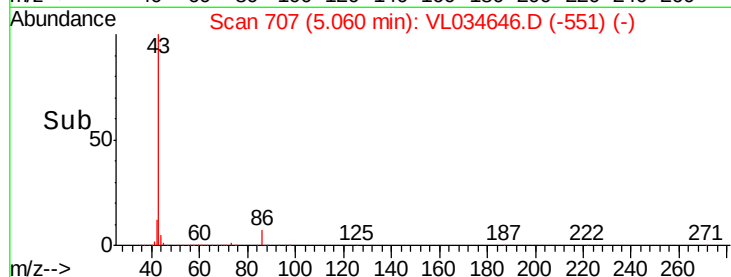


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.244 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

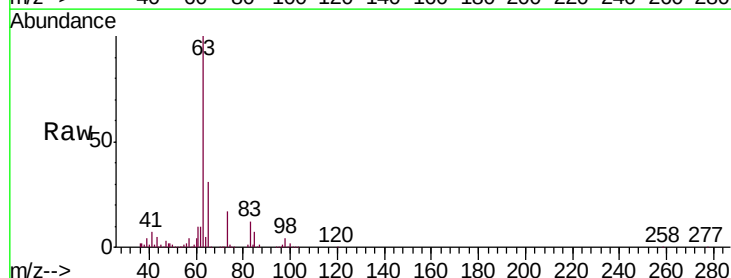
Tgt Ion: 63 Resp: 1348595

Ion Ratio Lower Upper

63 100

98 3.7 2.1 6.2

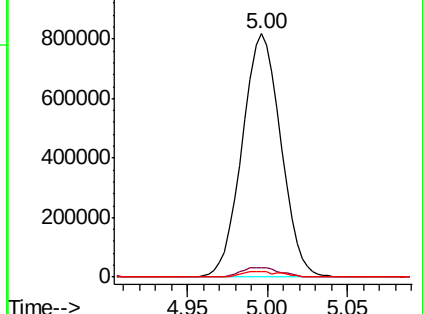
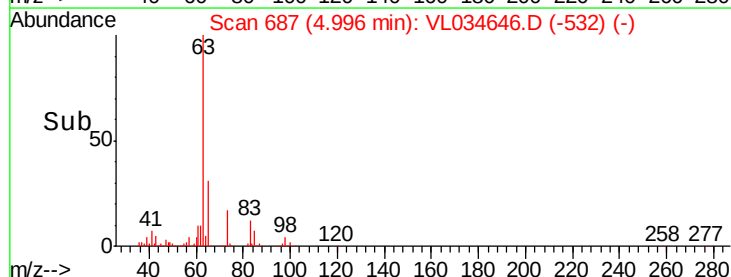
100 2.3 1.1 3.5



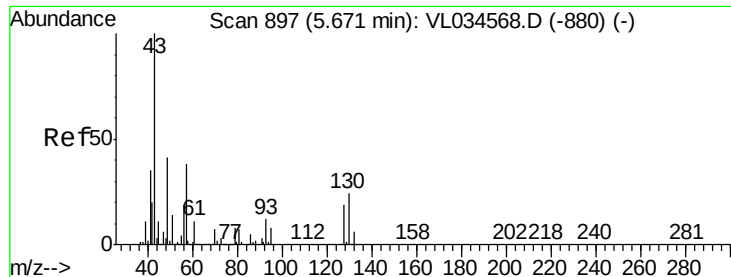
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





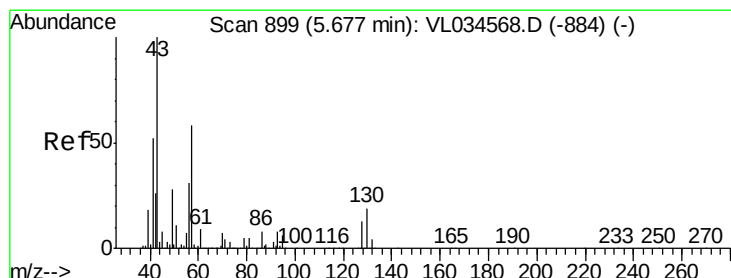
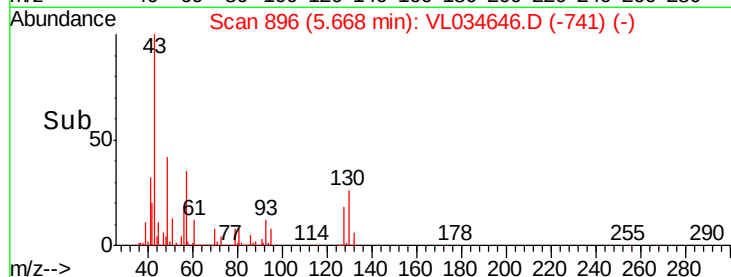
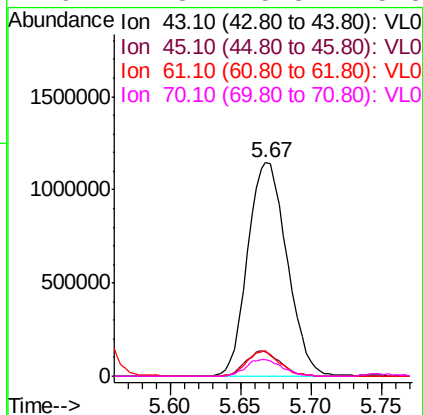
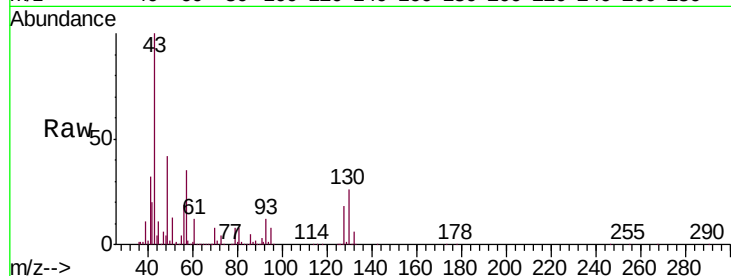


#25  
Ethyl Acetate  
Concen: 9.961 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 43 Resp: 2228817

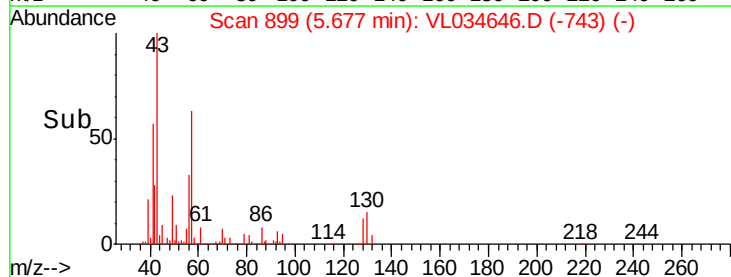
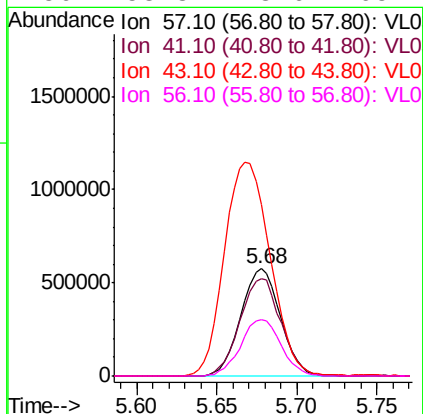
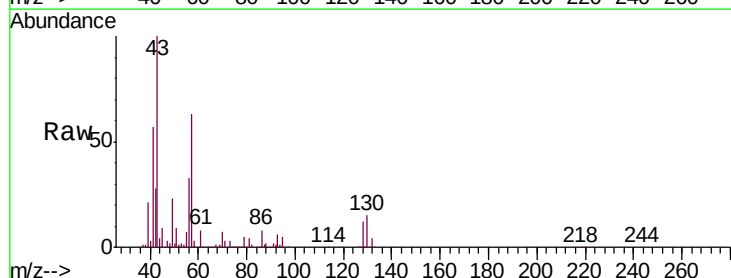
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.5  | 8.5   | 12.7  |
| 61  | 10.0  | 7.8   | 11.6  |
| 70  | 7.3   | 5.8   | 8.8   |

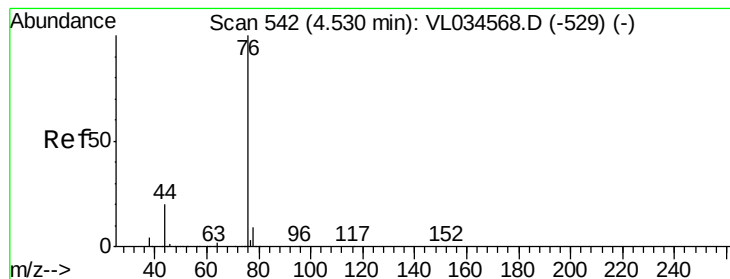


#26  
Hexane  
Concen: 10.339 ppbv  
RT: 5.68 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Tgt Ion: 57 Resp: 968967

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 94.1  | 76.2  | 114.2 |
| 43  | 231.1 | 189.9 | 284.9 |
| 56  | 53.8  | 43.6  | 65.4  |





#27

Carbon Disulfide

Concen: 11.676 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

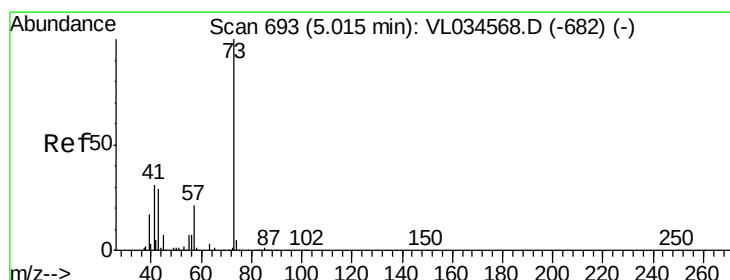
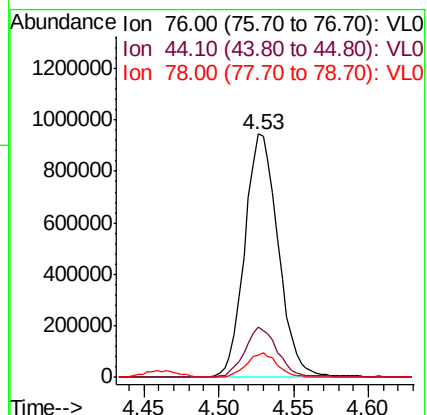
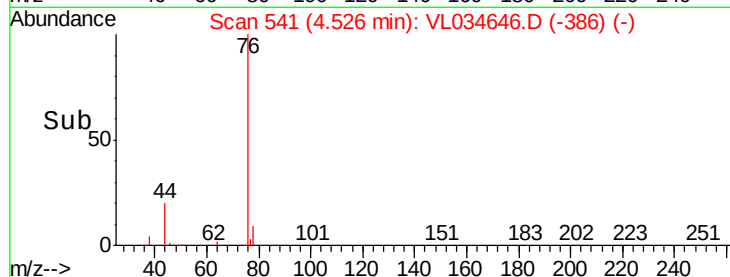
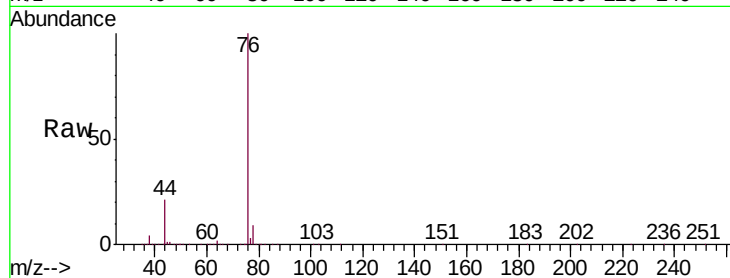
Tgt Ion: 76 Resp: 1476541

Ion Ratio Lower Upper

76 100

44 20.1 16.3 24.5

78 9.4 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 10.417 ppbv

RT: 5.02 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034646.D

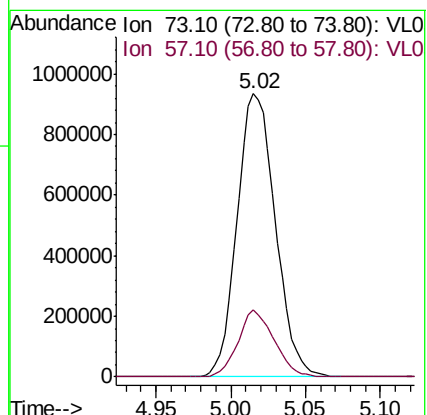
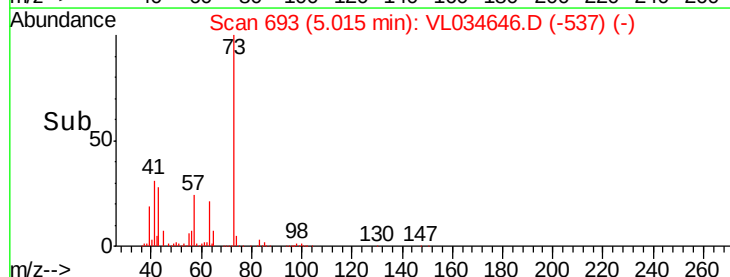
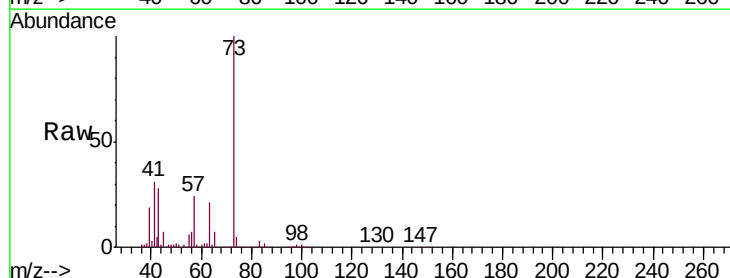
Acq: 19 Feb 2020 9:22

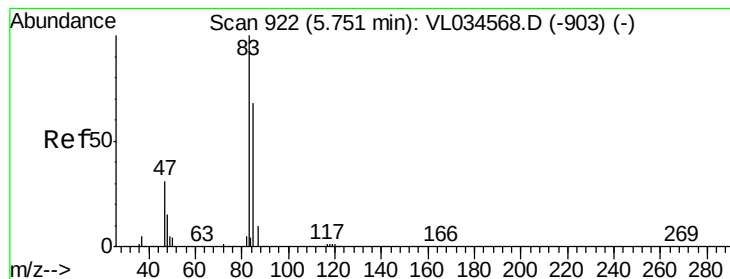
Tgt Ion: 73 Resp: 1664955

Ion Ratio Lower Upper

73 100

57 22.5 17.9 26.9





#29

Chloroform

Concen: 10.098 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

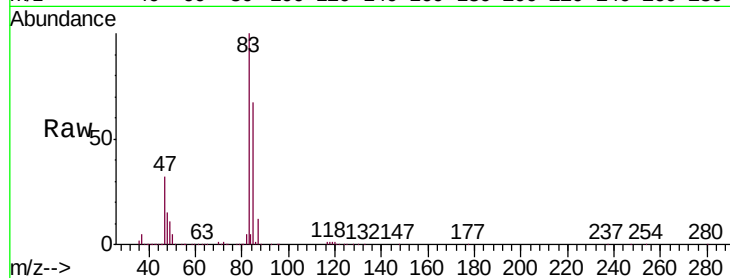
VSTDCCC010EC

Tgt Ion: 83 Resp: 1673375

Ion Ratio Lower Upper

83 100

85 67.1 54.0 81.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.75

800000

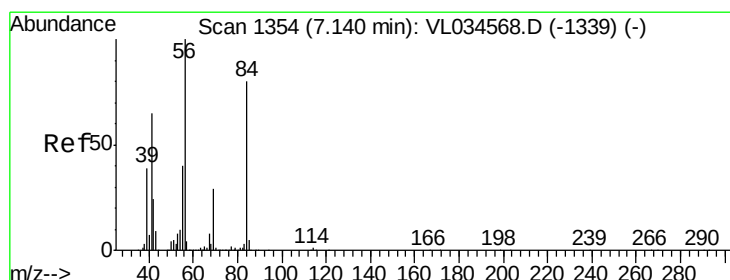
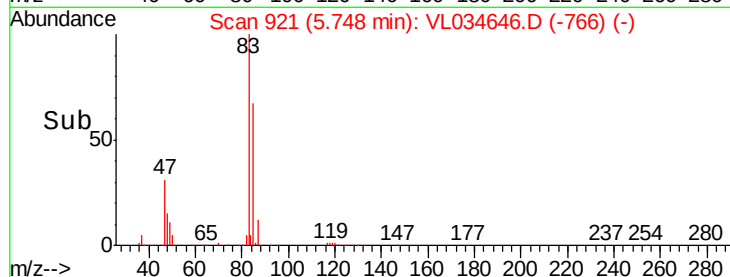
600000

400000

200000

0

Time-->



#30

Cyclohexane

Concen: 10.945 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

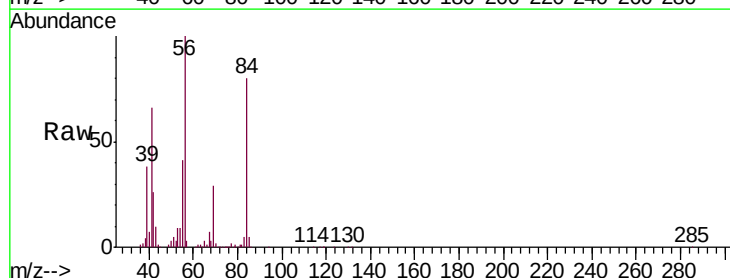
Tgt Ion: 84 Resp: 760080

Ion Ratio Lower Upper

84 100

56 134.8 110.5 165.7

41 87.6 71.9 107.9



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

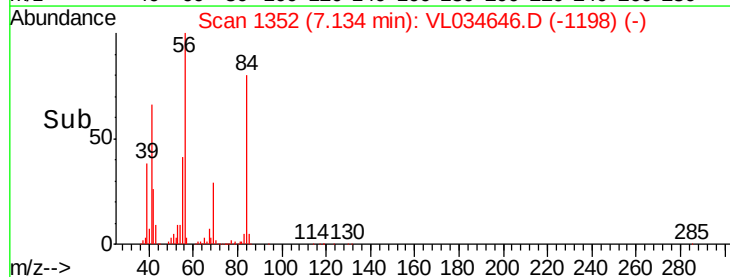
600000

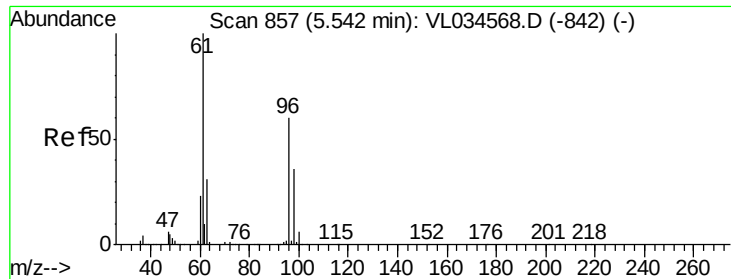
400000

200000

0

Time-->



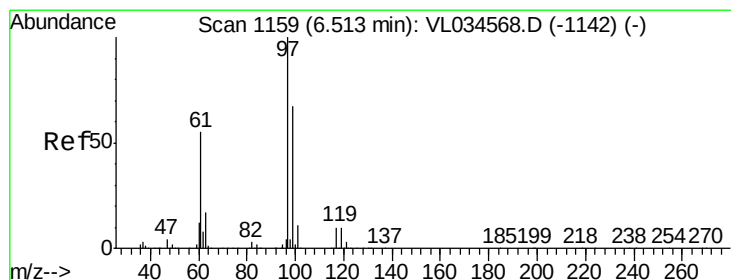
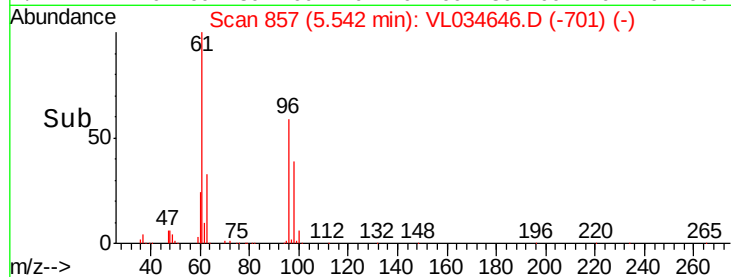
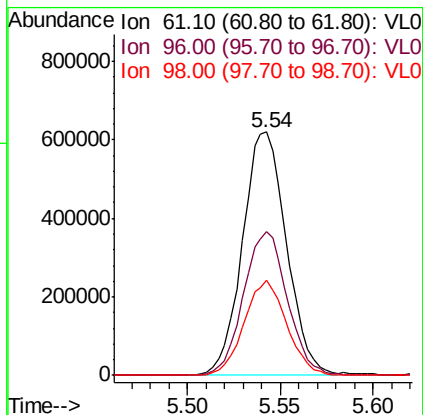
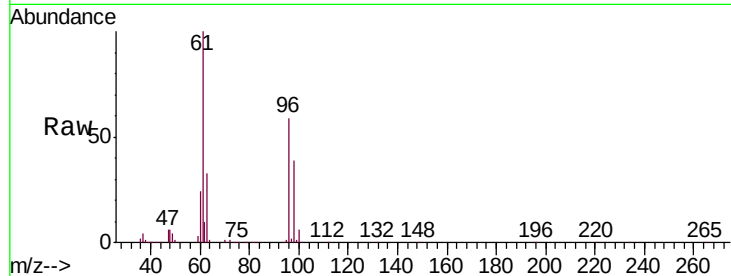


#31

cis-1,2-Dichloroethene  
 Concen: 10.490 ppbv  
 RT: 5.54 min Scan# 857  
 Delta R.T. 0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

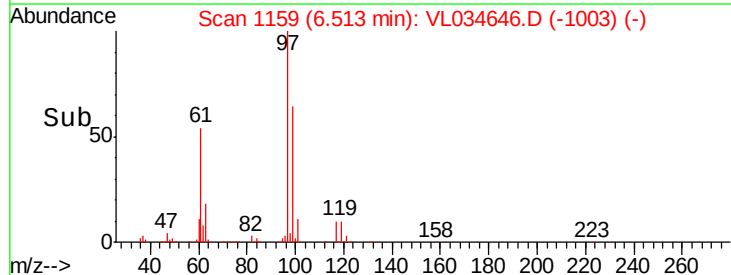
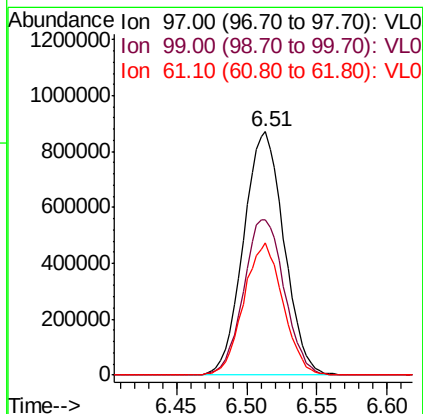
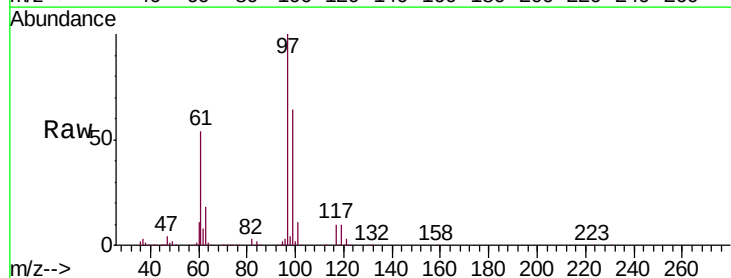
Tgt Ion: 61 Resp: 1021479  
 Ion Ratio Lower Upper  
 61 100  
 96 58.9 48.0 72.0  
 98 39.1 28.6 43.0

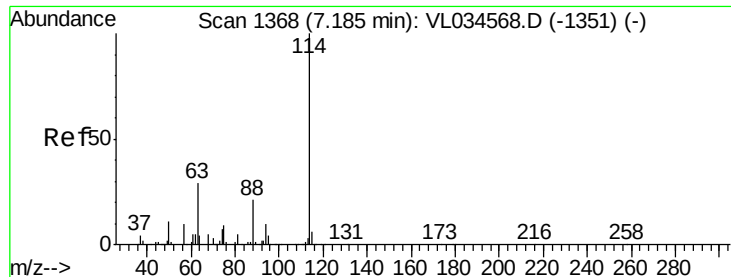


#32

1,1,1-Trichloroethane  
 Concen: 9.853 ppbv  
 RT: 6.51 min Scan# 1159  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 97 Resp: 1753270  
 Ion Ratio Lower Upper  
 97 100  
 99 64.6 52.2 78.2  
 61 52.7 43.0 64.4

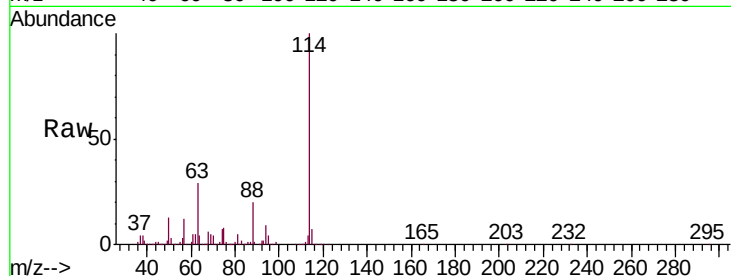




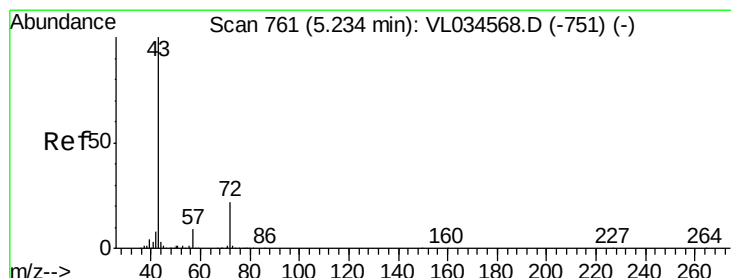
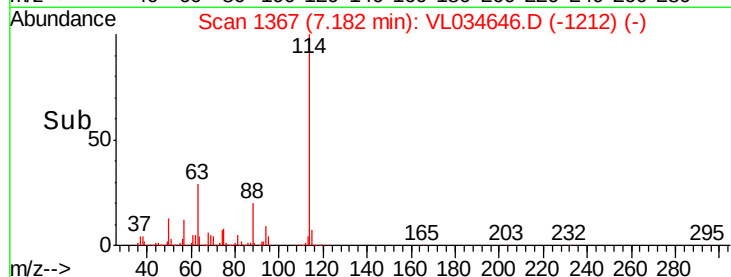
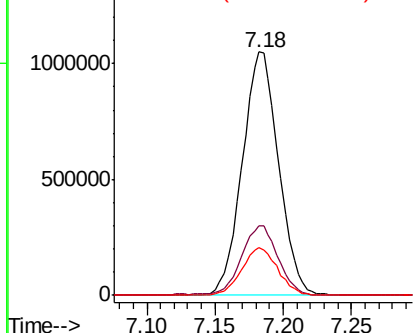
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion:114 Resp: 1937081  
 Ion Ratio Lower Upper  
 114 100  
 63 29.5 24.1 36.1  
 88 19.4 15.9 23.9

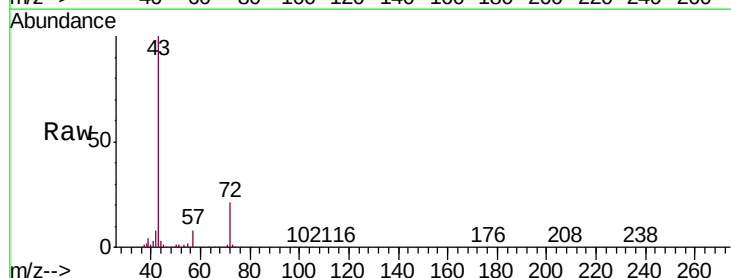


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

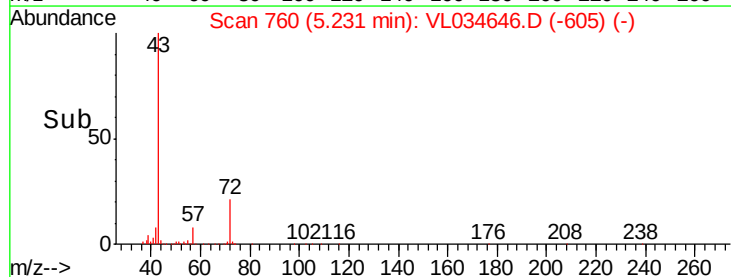
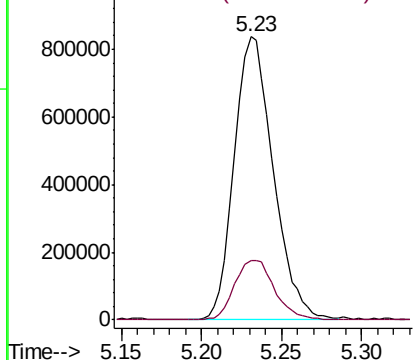


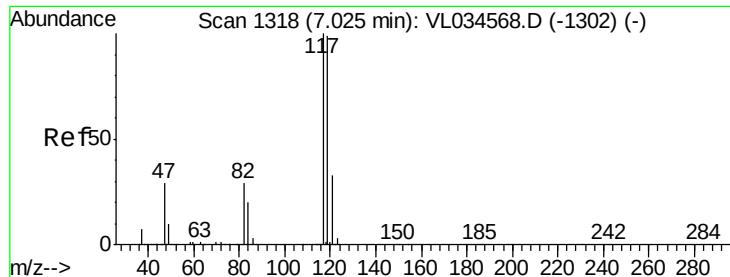
#34  
 2-Butanone  
 Concen: 9.874 ppbv  
 RT: 5.23 min Scan# 760  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 43 Resp: 1388822  
 Ion Ratio Lower Upper  
 43 100  
 72 21.8 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.280 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

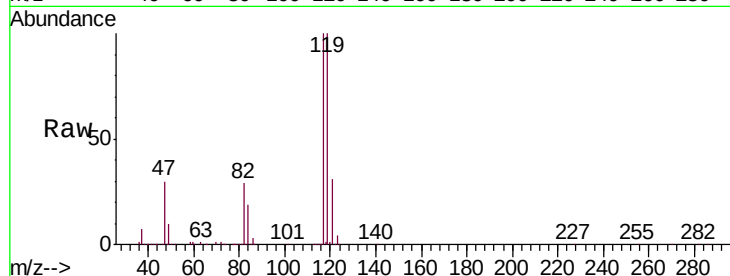
Tgt Ion:117 Resp: 1903823

Ion Ratio Lower Upper

117 100

119 99.9 79.5 119.3

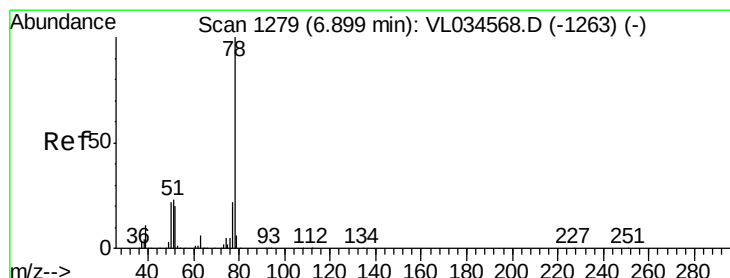
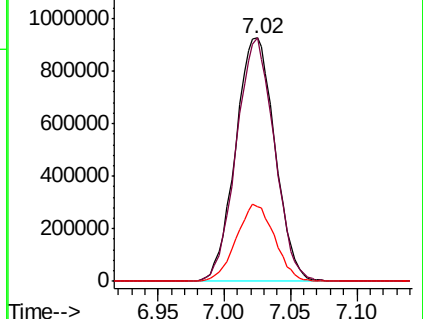
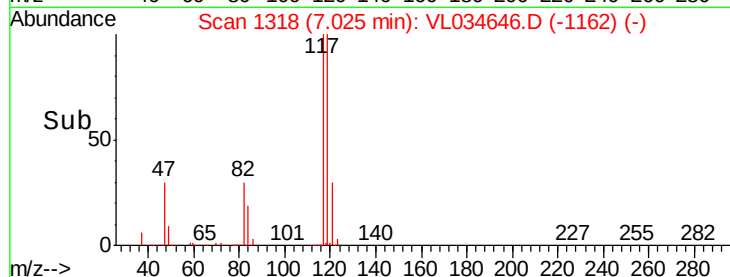
121 30.6 26.2 39.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.445 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

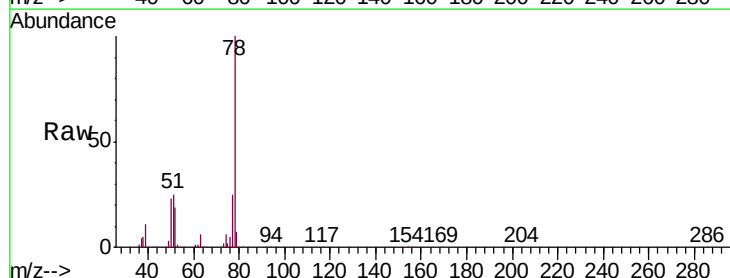
Tgt Ion: 78 Resp: 1799382

Ion Ratio Lower Upper

78 100

77 24.7 17.3 25.9

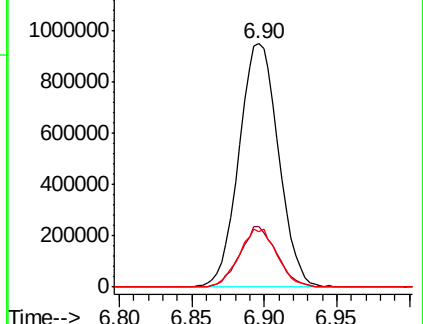
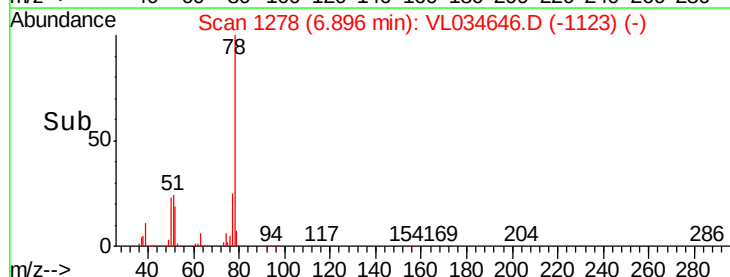
50 22.9 17.4 26.2

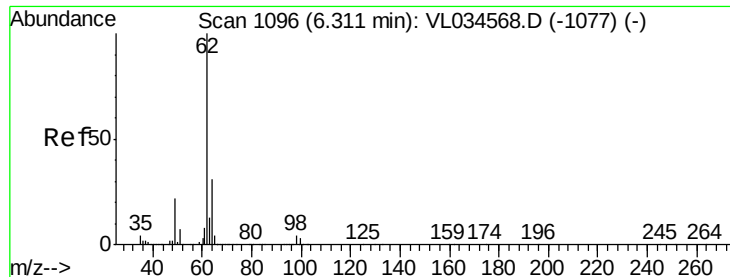


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

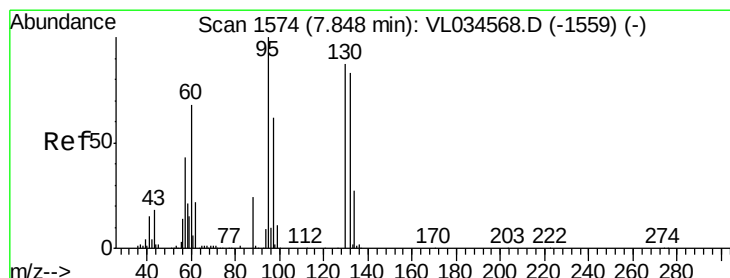
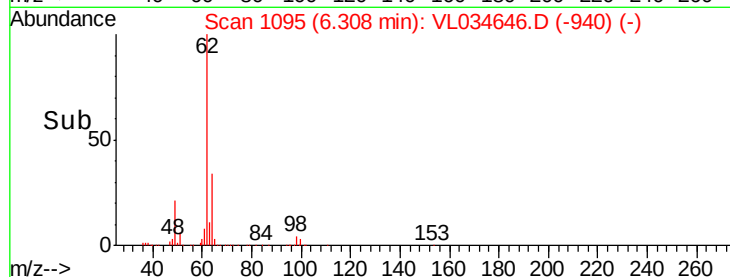
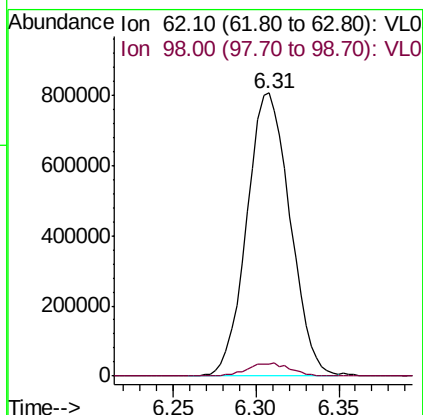
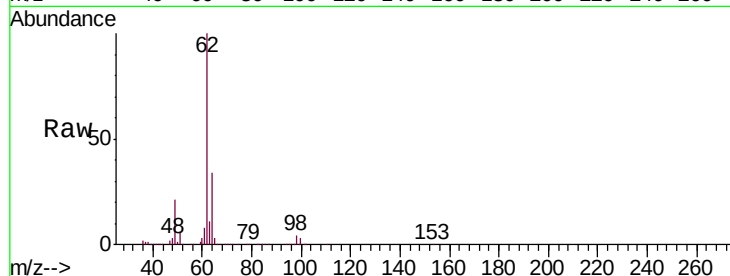




#37  
 1,2-Dichloroethane  
 Concen: 10.184 ppbv  
 RT: 6.31 min Scan# 1095  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

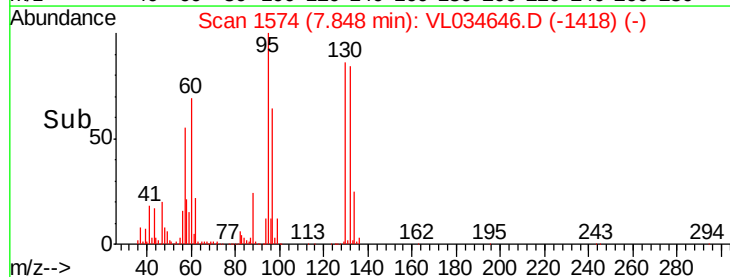
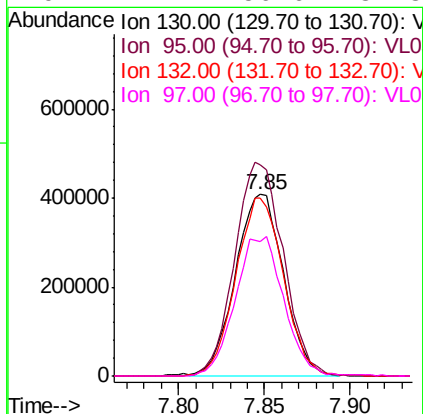
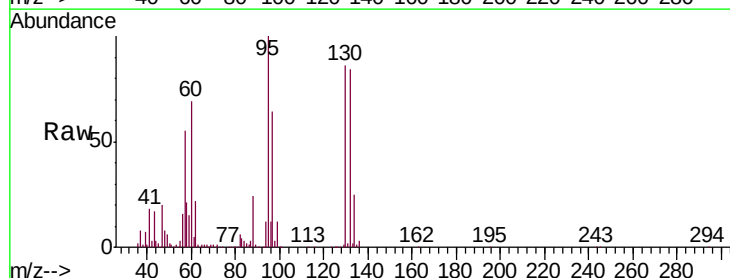
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

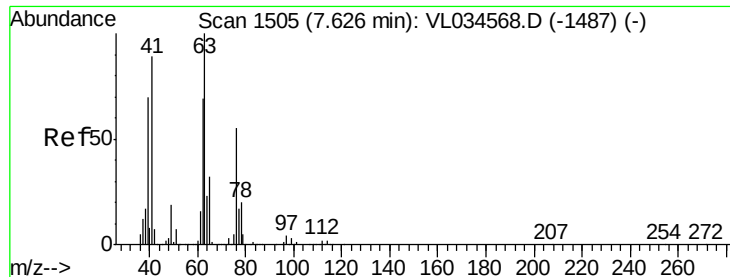
Tgt Ion: 62 Resp: 1463613  
 Ion Ratio Lower Upper  
 62 100  
 98 4.5 3.7 5.5



#38  
 Trichloroethene  
 Concen: 10.906 ppbv  
 RT: 7.85 min Scan# 1574  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 130 Resp: 791905  
 Ion Ratio Lower Upper  
 130 100  
 95 115.9 91.6 137.4  
 132 97.6 76.1 114.1  
 97 74.1 56.6 84.8





#39

1,2-Dichloropropane

Concen: 10.121 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

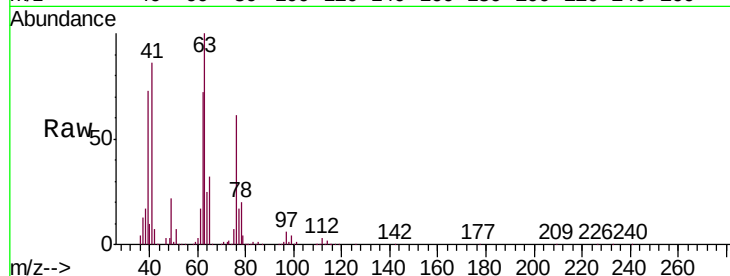
Tgt Ion: 63 Resp: 722763

Ion Ratio Lower Upper

63 100

41 86.1 71.0 106.4

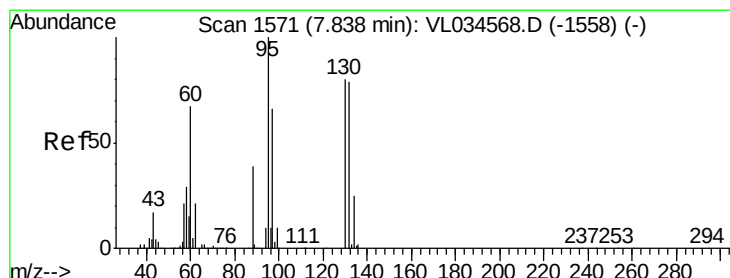
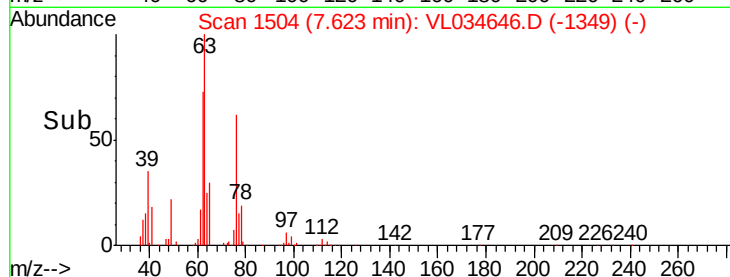
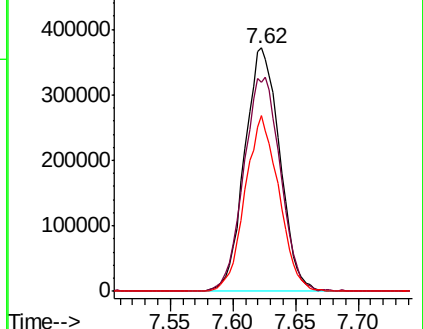
62 72.4 55.4 83.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.026 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Tgt Ion: 88 Resp: 302668

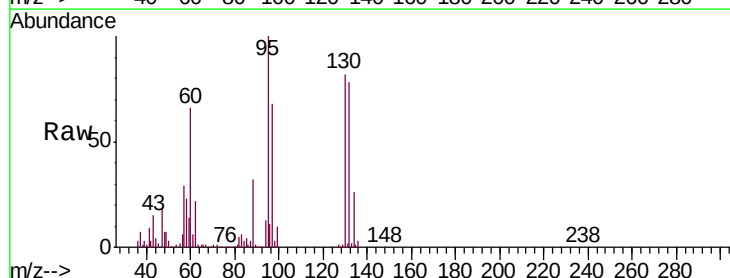
Ion Ratio Lower Upper

88 100

58 129.3 107.8 161.8

43 0.0 220.9 331.3#

57 0.0 908.6 1363.0#

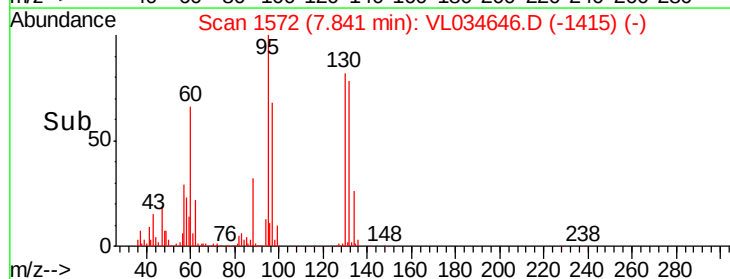
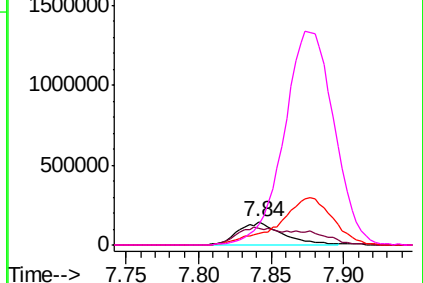


Abundance Ion 88.10 (87.80 to 88.80): VL0

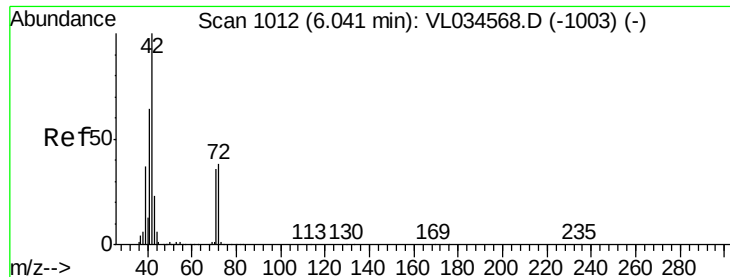
Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0







#41

Tetrahydrofuran

Concen: 10.095 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

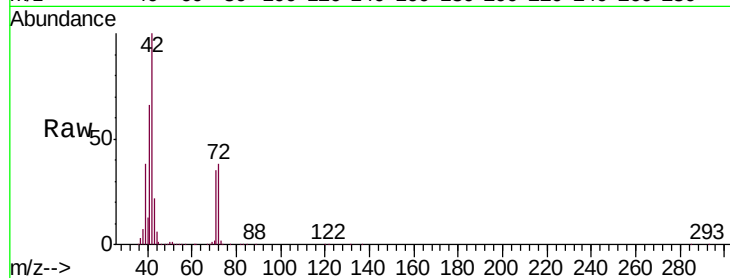
Tgt Ion: 42 Resp: 740691

Ion Ratio Lower Upper

42 100

72 39.7 31.8 47.8

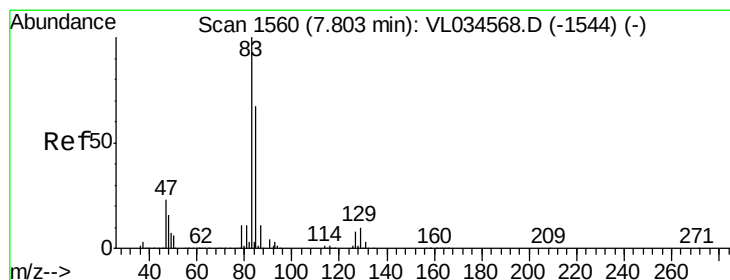
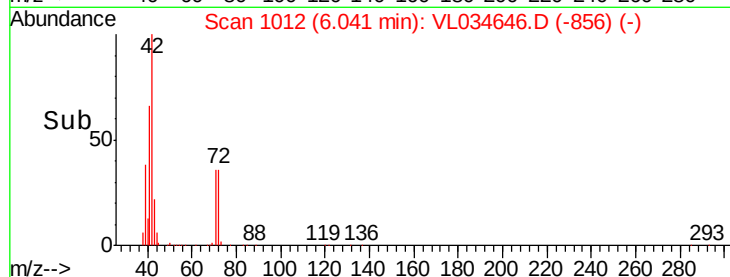
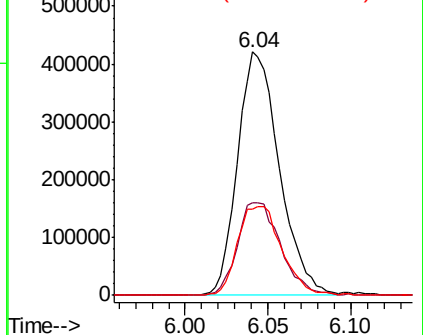
71 38.7 30.2 45.4



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.391 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

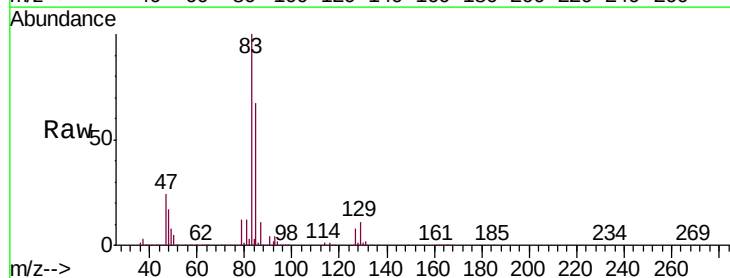
Tgt Ion: 83 Resp: 1838064

Ion Ratio Lower Upper

83 100

85 66.9 53.2 79.8

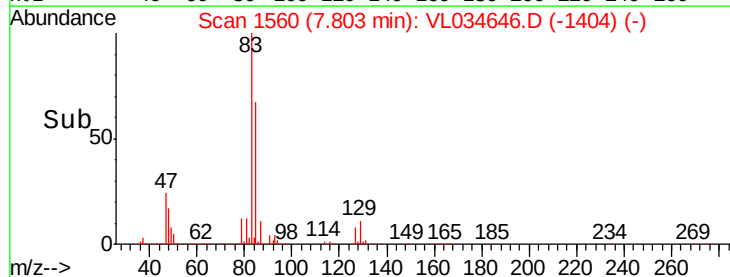
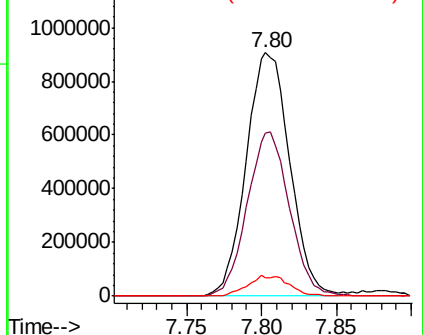
127 7.6 6.5 9.7

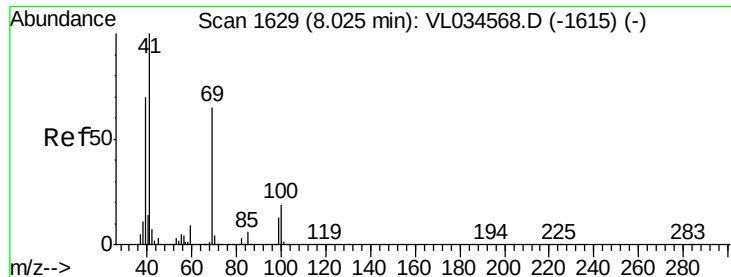


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 11.045 ppbv

RT: 8.02 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

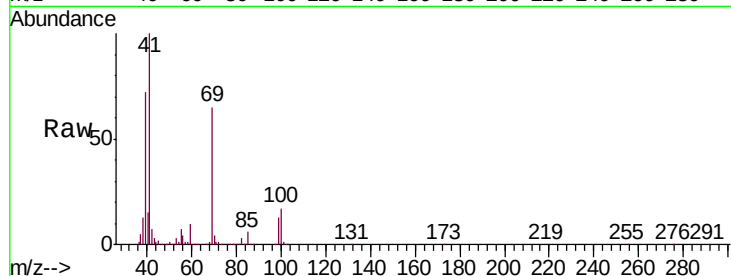
Tgt Ion: 69 Resp: 765249

Ion Ratio Lower Upper

69 100

41 152.0 123.9 185.9

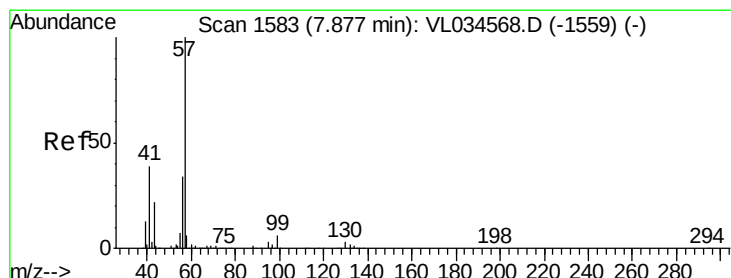
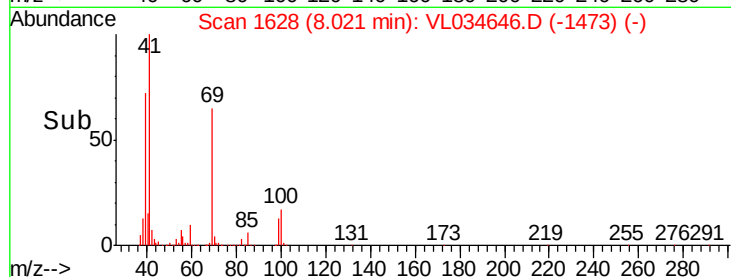
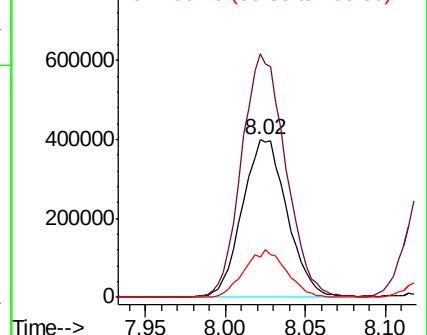
100 28.7 24.1 36.1



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 10.309 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

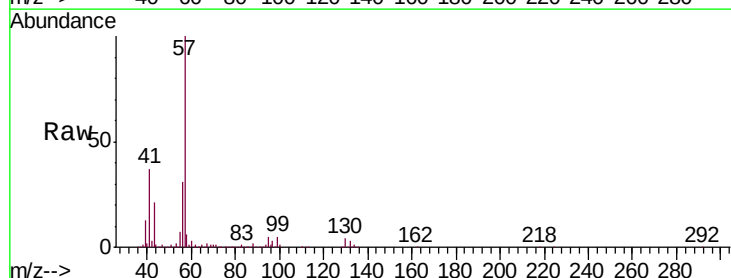
Tgt Ion: 57 Resp: 3221910

Ion Ratio Lower Upper

57 100

41 37.0 28.9 43.3

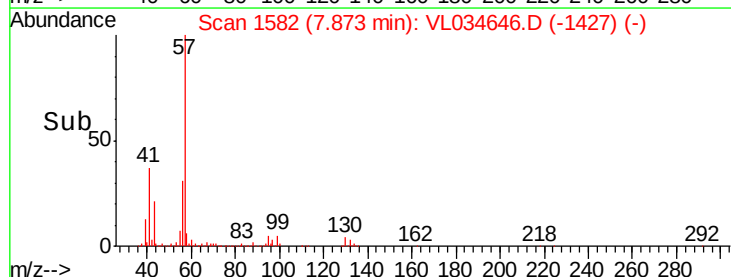
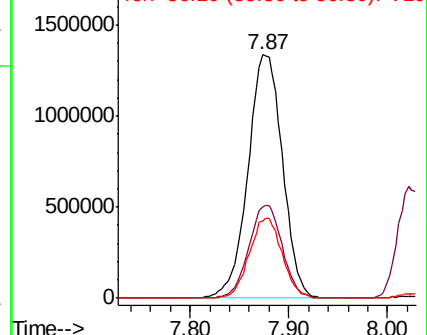
56 31.3 25.5 38.3

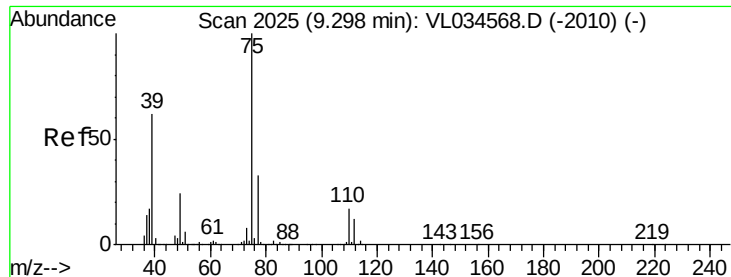


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

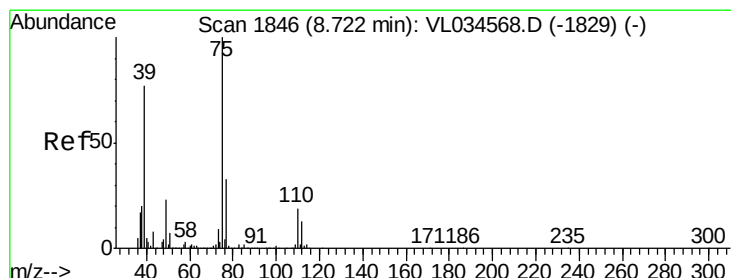
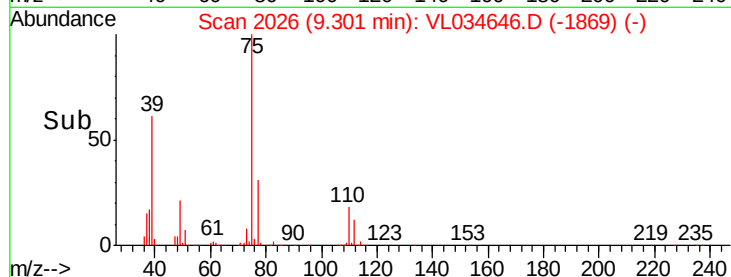
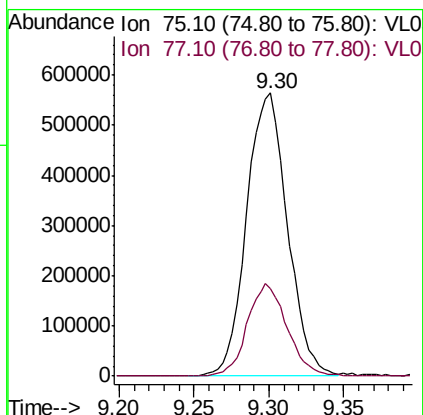
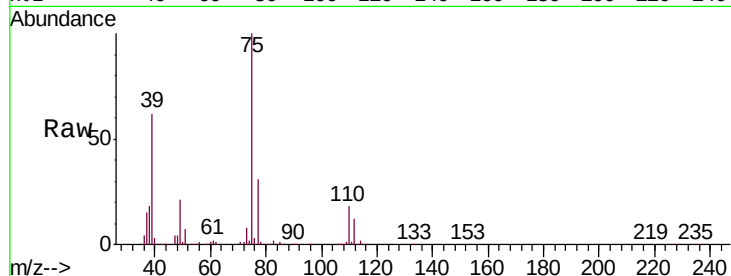




#45  
 t-1,3-Dichloropropene  
 Concen: 11.810 ppbv  
 RT: 9.30 min Scan# 2026  
 Delta R.T. 0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

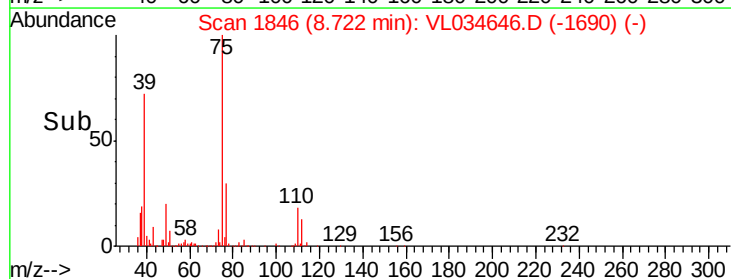
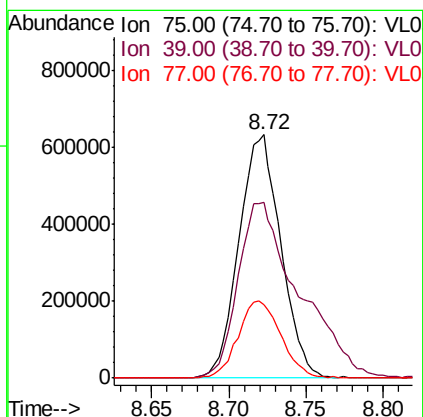
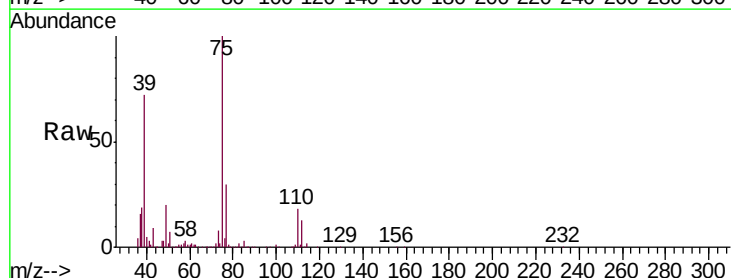
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

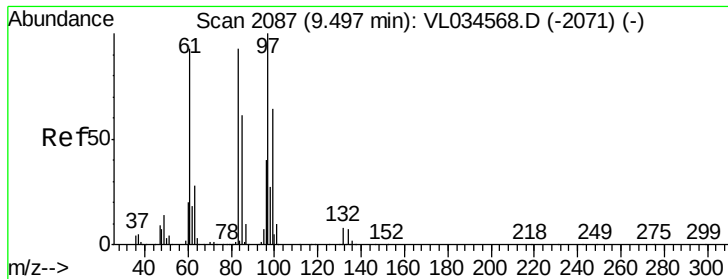
Tgt Ion: 75 Resp: 1071451  
 Ion Ratio Lower Upper  
 75 100  
 77 31.0 26.7 40.1



#46  
 cis-1,3-Dichloropropene  
 Concen: 11.568 ppbv  
 RT: 8.72 min Scan# 1846  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 75 Resp: 1192859  
 Ion Ratio Lower Upper  
 75 100  
 39 72.0 61.9 92.9  
 77 30.0 26.1 39.1

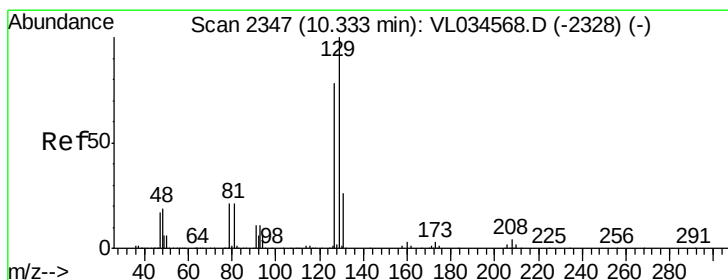
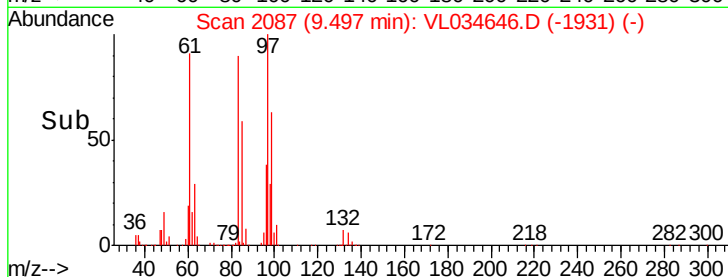
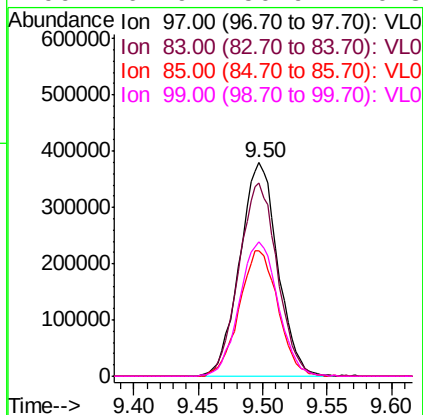
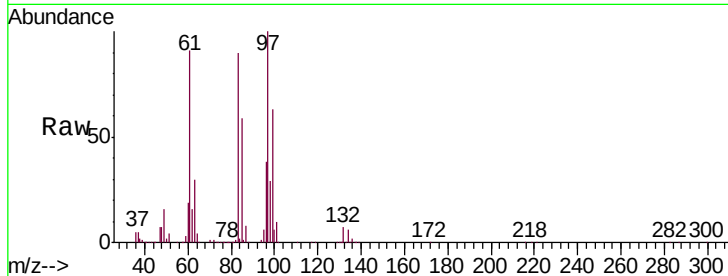




#47  
 1,1,2-Trichloroethane  
 Concen: 10.063 ppbv  
 RT: 9.50 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

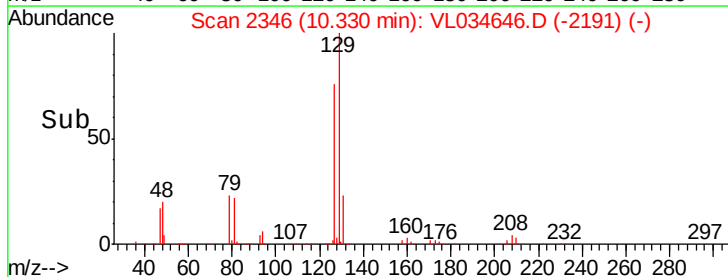
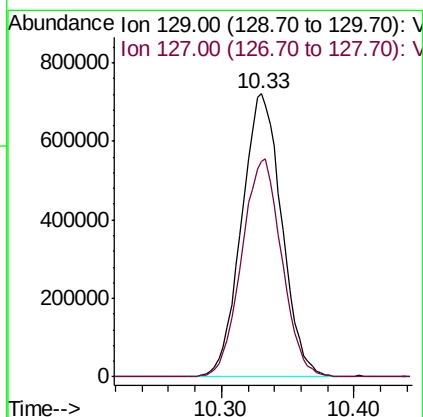
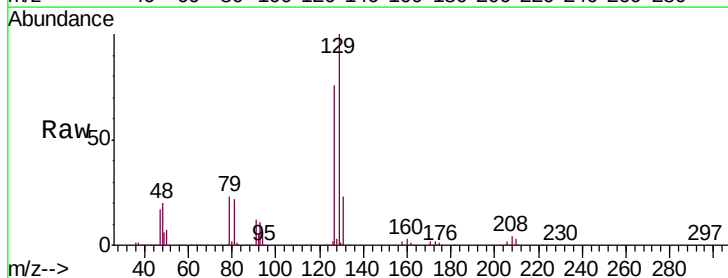
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

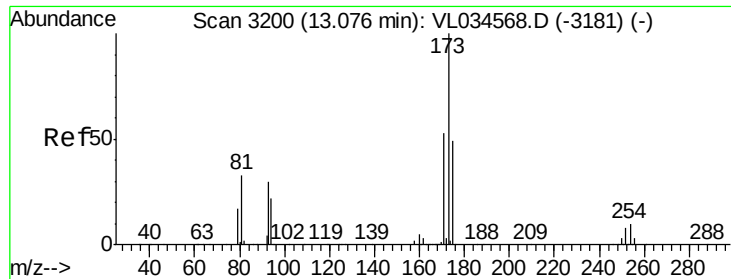
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 778351 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 90.4  | 74.4  | 111.6  |
| 85       | 58.7  | 49.2  | 73.8   |
| 99       | 62.9  | 50.9  | 76.3   |



#48  
 Dibromochloromethane  
 Concen: 10.702 ppbv  
 RT: 10.33 min Scan# 2346  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 129   | Resp: | 1516786 |
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 77.2  | 39.1  | 117.2   |





#49

Bromoform

Concen: 10.585 ppbv

RT: 13.08 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

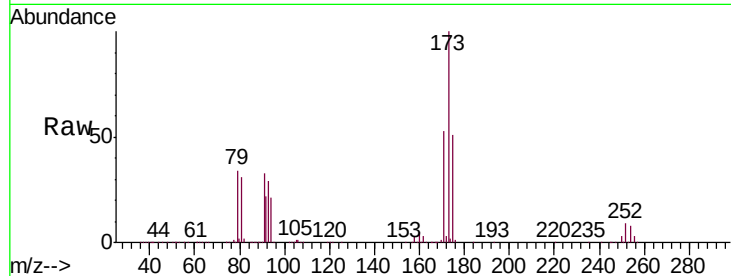
Tgt Ion:173 Resp: 1317119

Ion Ratio Lower Upper

173 100

175 49.5 39.7 59.5

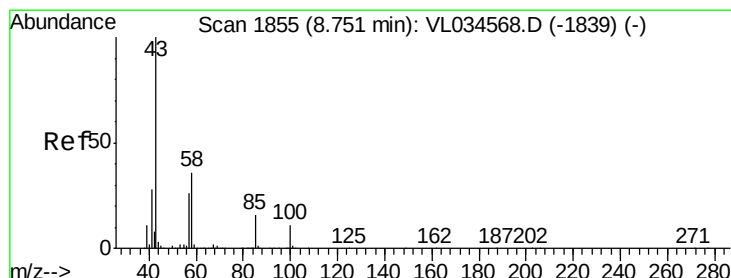
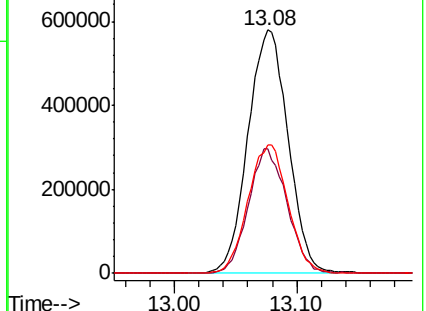
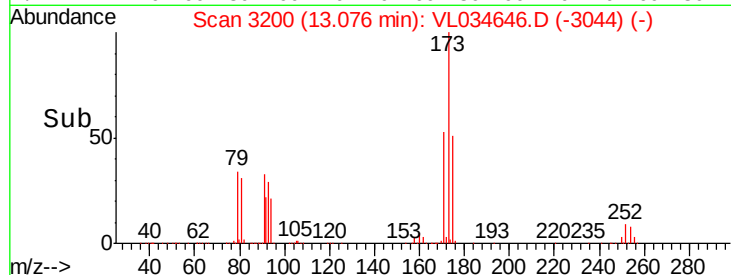
171 52.8 41.6 62.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.436 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.00 min

Lab File: VL034646.D

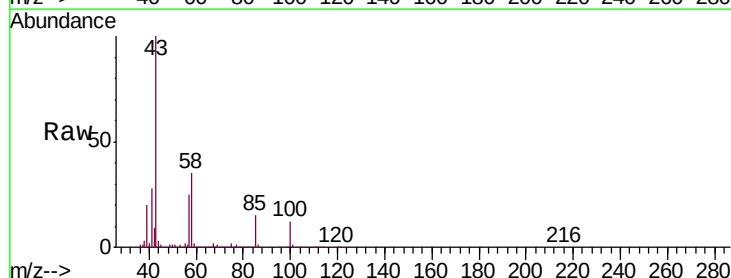
Acq: 19 Feb 2020 9:22

Tgt Ion: 43 Resp: 2093265

Ion Ratio Lower Upper

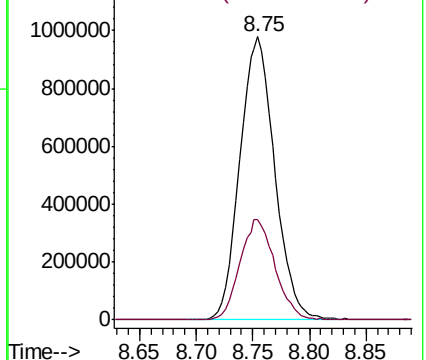
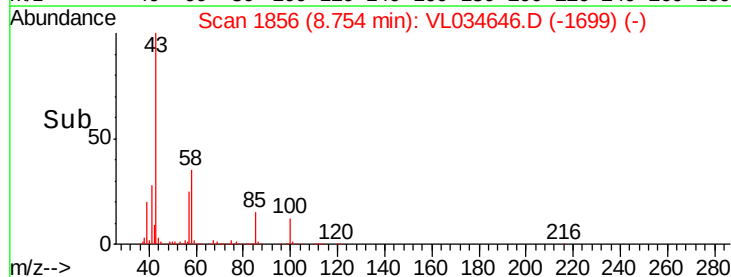
43 100

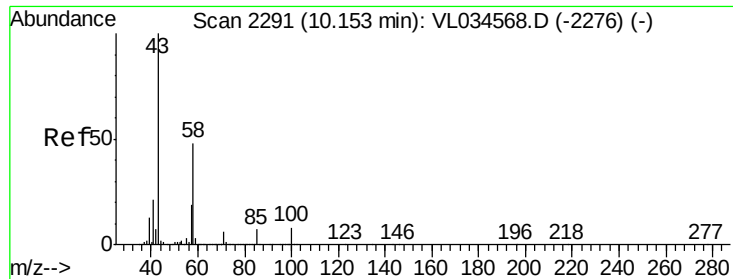
58 35.7 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

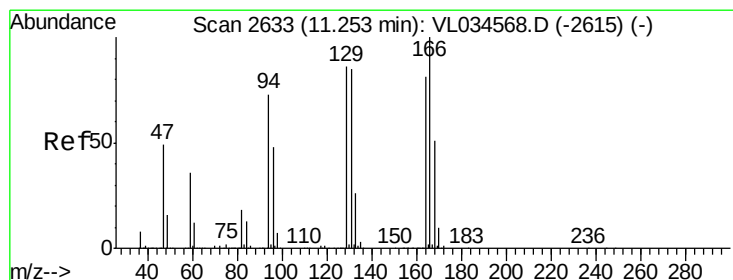
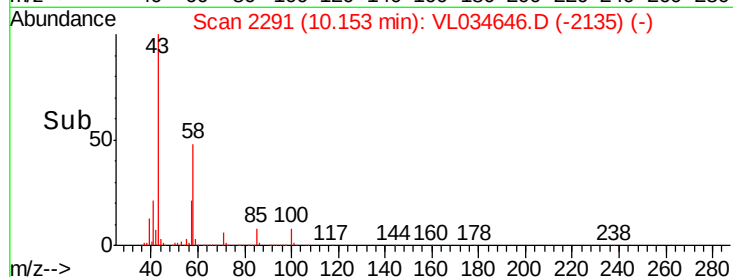
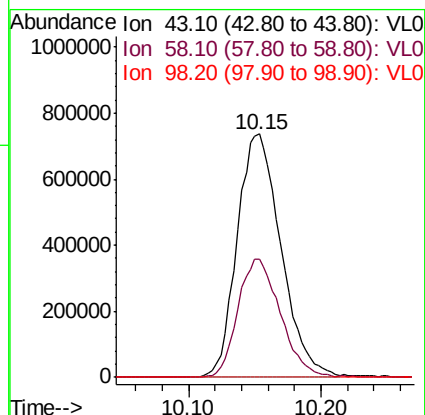
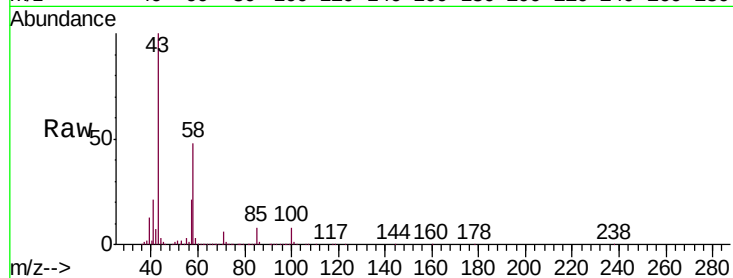




#51  
2-Hexanone  
Concen: 10.689 ppbv  
RT: 10.15 min Scan# 2291  
Delta R.T. 0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

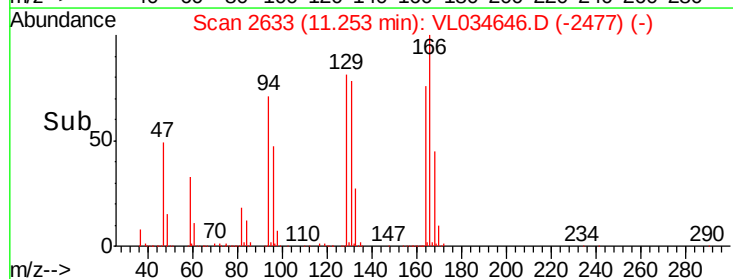
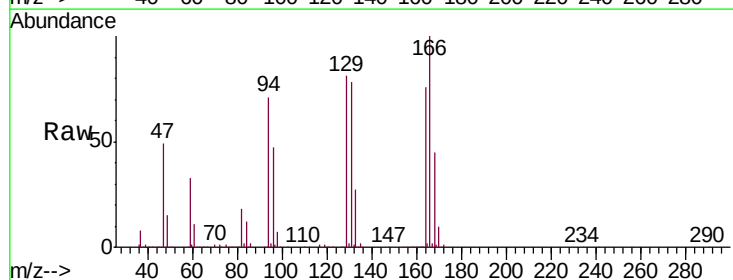
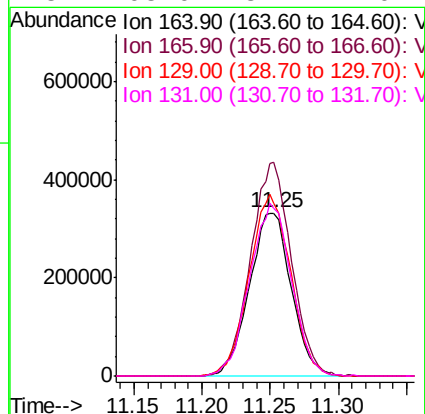
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

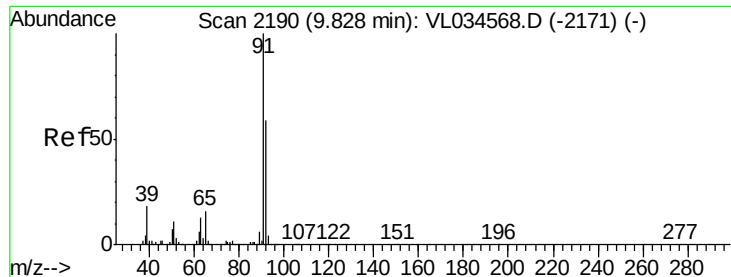
Tgt Ion: 43 Resp: 1687777  
Ion Ratio Lower Upper  
43 100  
58 47.5 37.9 56.9  
98 0.3 0.3 0.5#



#52  
Tetrachloroethene  
Concen: 10.182 ppbv  
RT: 11.25 min Scan# 2633  
Delta R.T. 0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Tgt Ion: 164 Resp: 704591  
Ion Ratio Lower Upper  
164 100  
166 131.3 99.0 148.4  
129 105.9 85.3 127.9  
131 103.0 84.2 126.2





#53

Toluene

Concen: 11.190 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

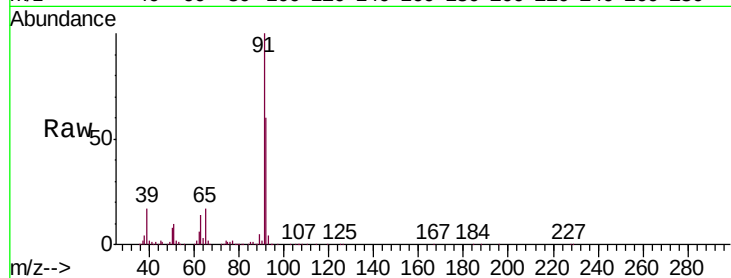
VSTDCCC010EC

Tgt Ion: 91 Resp: 2117559

Ion Ratio Lower Upper

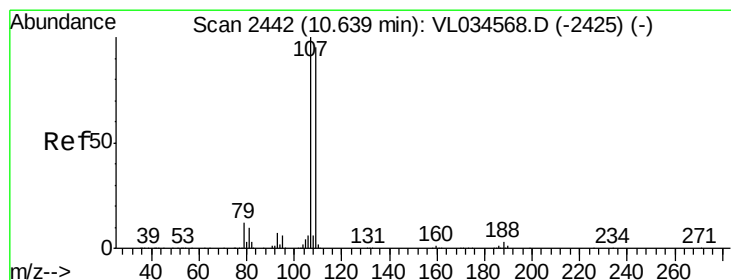
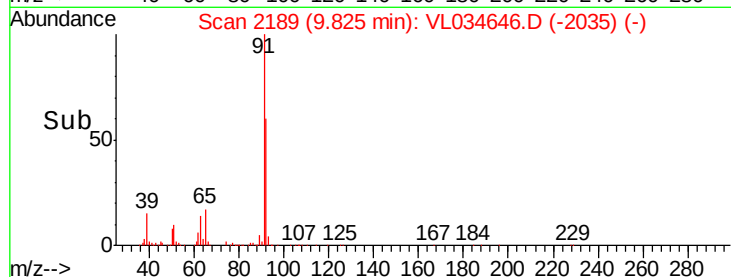
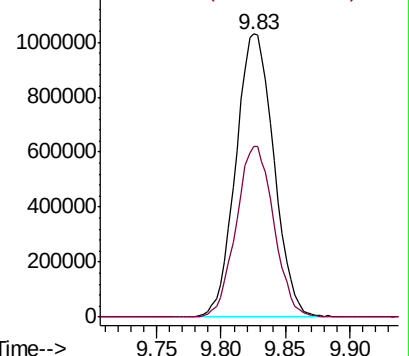
91 100

92 59.7 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.296 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. -0.00 min

Lab File: VL034646.D

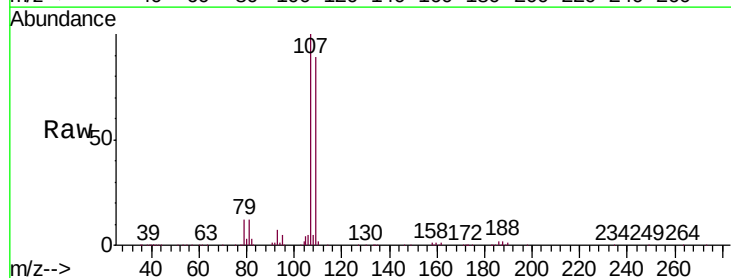
Acq: 19 Feb 2020 9:22

Tgt Ion: 107 Resp: 1193324

Ion Ratio Lower Upper

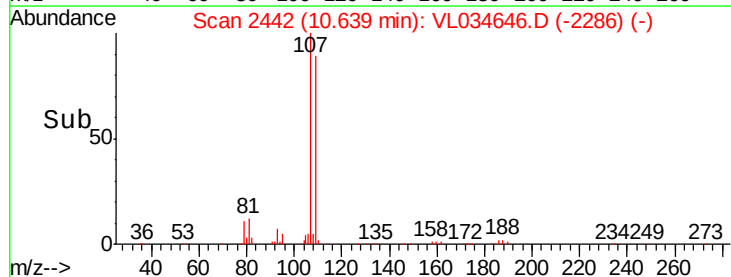
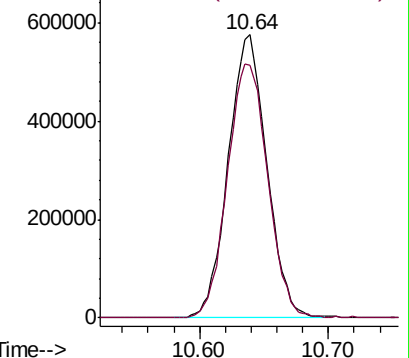
107 100

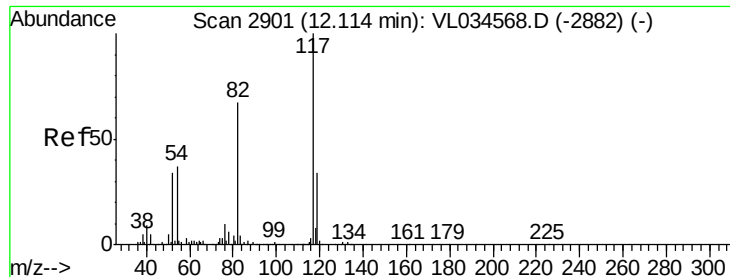
109 89.2 75.9 113.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

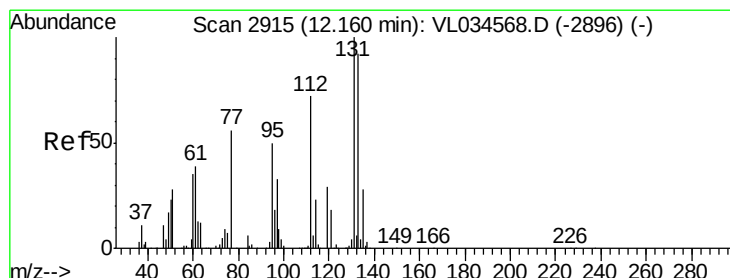
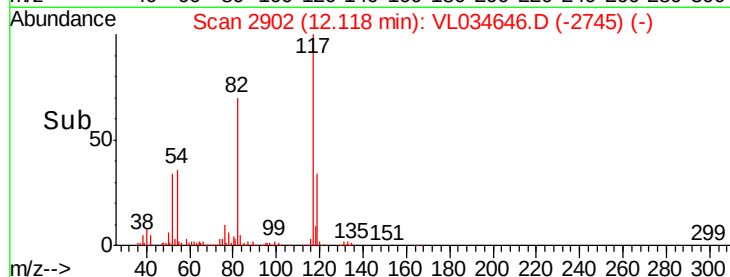
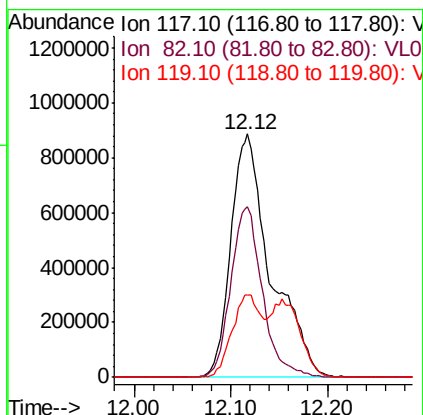
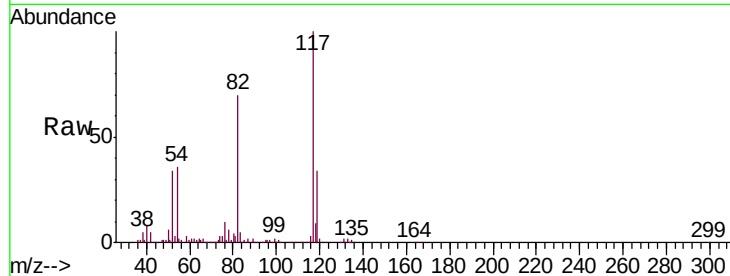




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. 0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

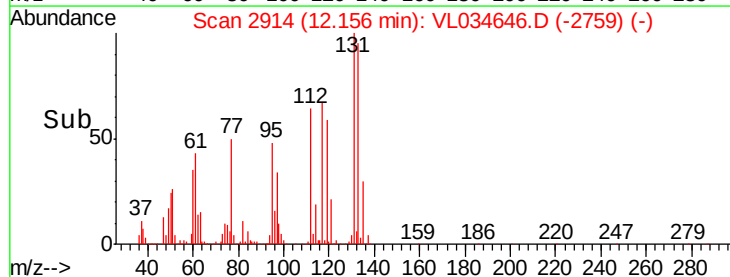
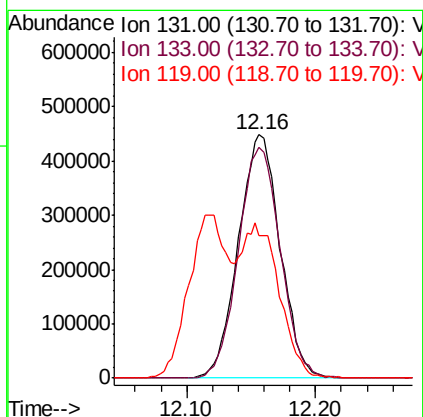
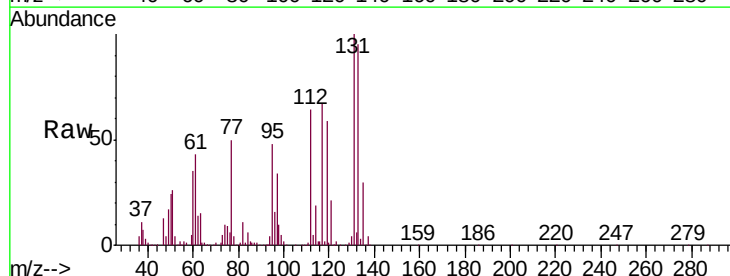
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion:117 Resp: 2538674  
Ion Ratio Lower Upper  
117 100  
82 55.6 54.2 81.4  
119 27.3 26.1 39.1

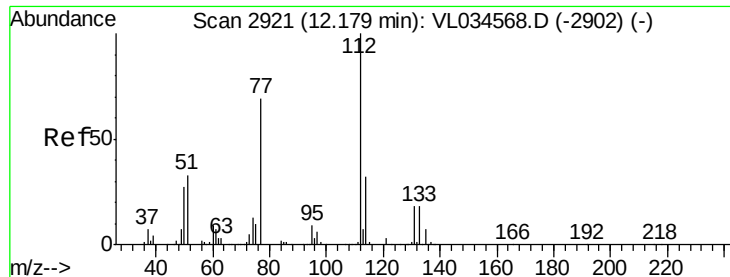


#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.051 ppbv  
RT: 12.16 min Scan# 2914  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Tgt Ion:131 Resp: 1009110  
Ion Ratio Lower Upper  
131 100  
133 95.9 75.8 113.8  
119 62.6 47.0 70.6



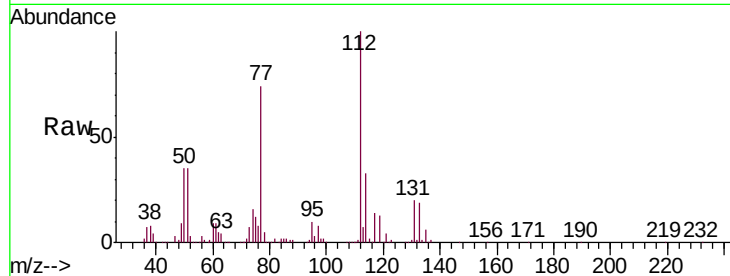




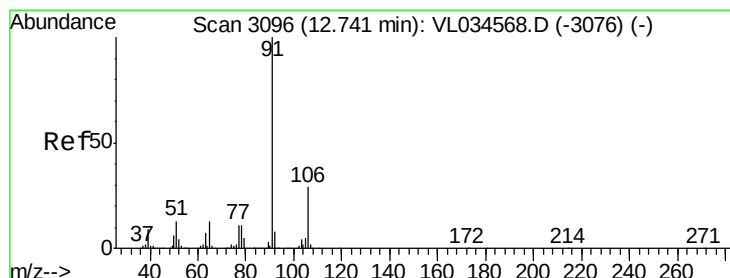
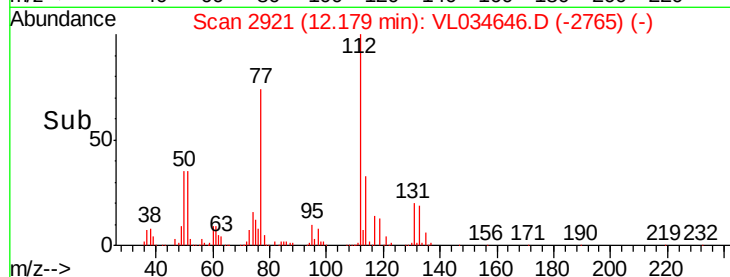
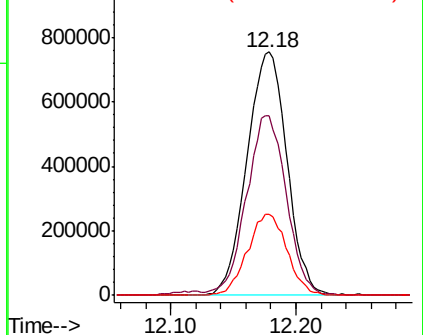
#57  
Chlorobenzene  
Concen: 8.003 ppbv  
RT: 12.18 min Scan# 2921  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 112 Resp: 1671788  
Ion Ratio Lower Upper  
112 100  
77 73.4 56.5 84.7  
114 33.2 29.2 35.6

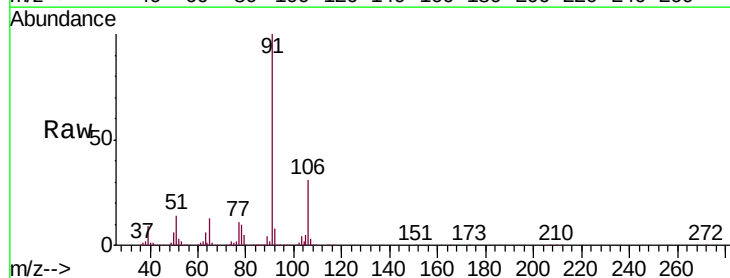


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

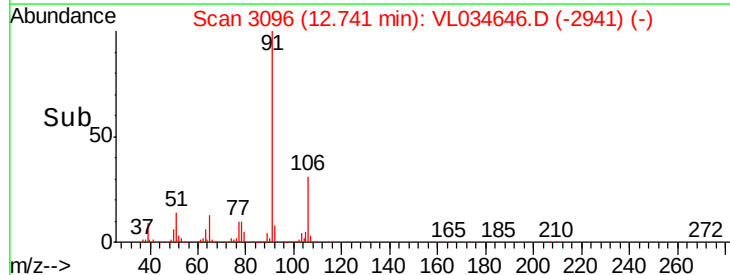
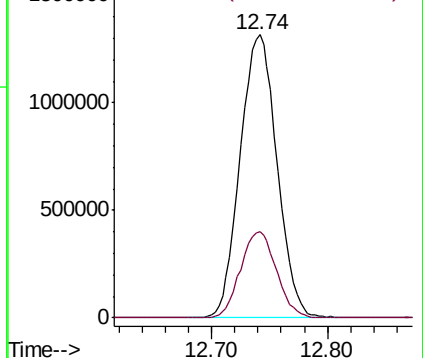


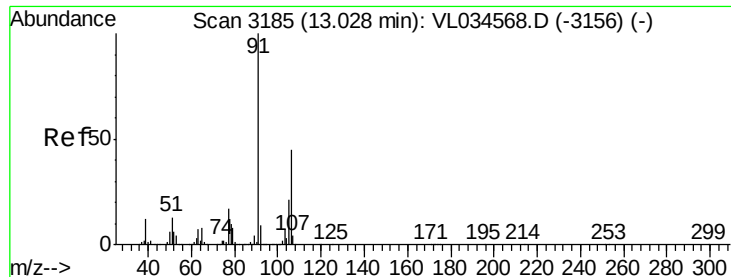
#58  
Ethyl Benzene  
Concen: 8.575 ppbv  
RT: 12.74 min Scan# 3096  
Delta R.T. -0.00 min  
Lab File: VL034646.D  
Acq: 19 Feb 2020 9:22

Tgt Ion: 91 Resp: 2912990  
Ion Ratio Lower Upper  
91 100  
106 30.5 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 7.063 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

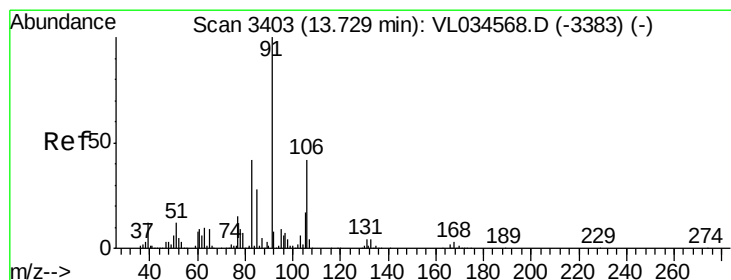
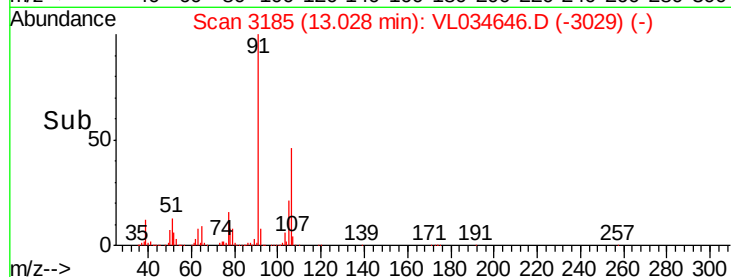
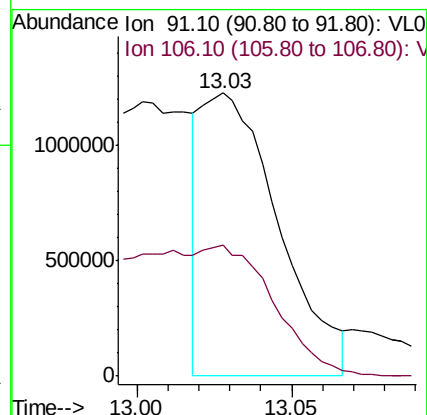
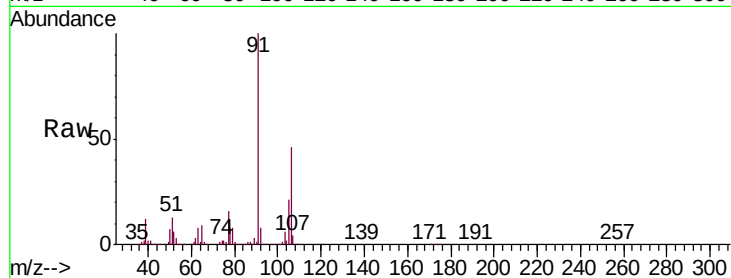
VSTDCCC010EC

Tgt Ion: 91 Resp: 2121077

Ion Ratio Lower Upper

91 100

106 102.8 35.3 52.9#



#60

o-Xylene

Concen: 8.268 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VL034646.D

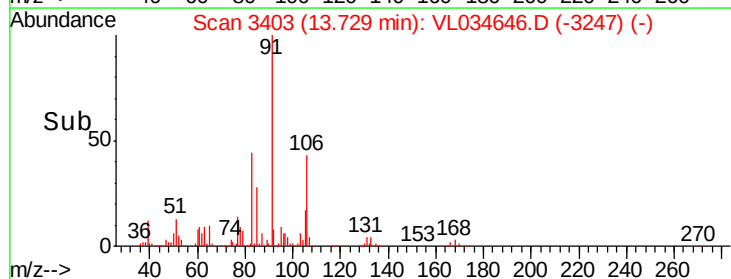
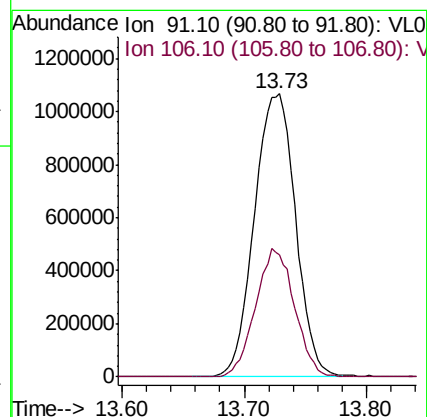
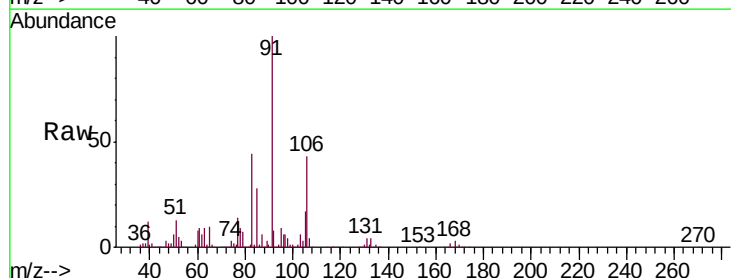
Acq: 19 Feb 2020 9:22

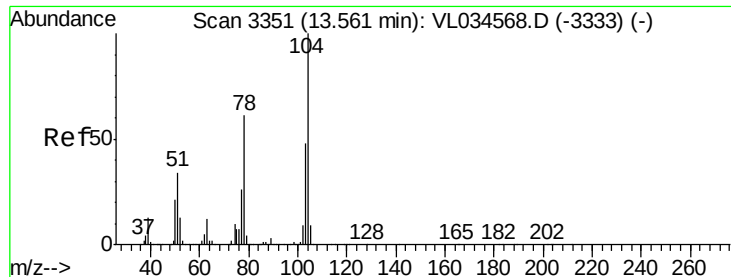
Tgt Ion: 91 Resp: 2493410

Ion Ratio Lower Upper

91 100

106 42.8 21.6 65.0





#61

Styrene

Concen: 8.809 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

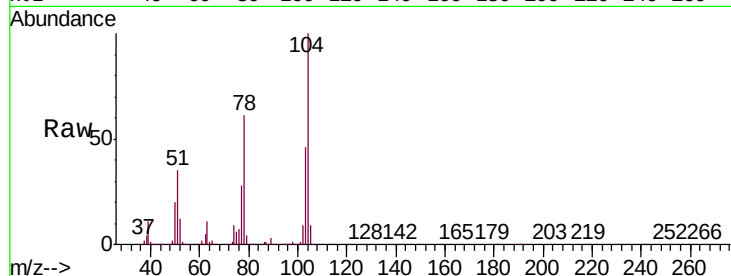
Tgt Ion:104 Resp: 1771370

Ion Ratio Lower Upper

104 100

78 60.5 47.0 70.6

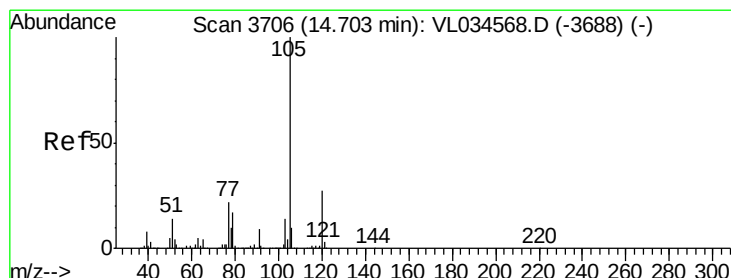
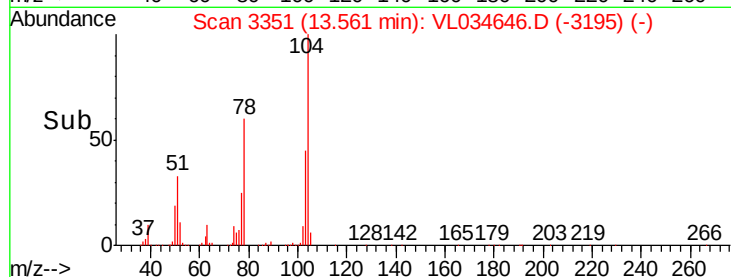
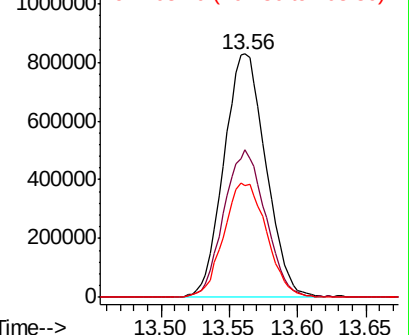
103 48.2 38.5 57.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.261 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.00 min

Lab File: VL034646.D

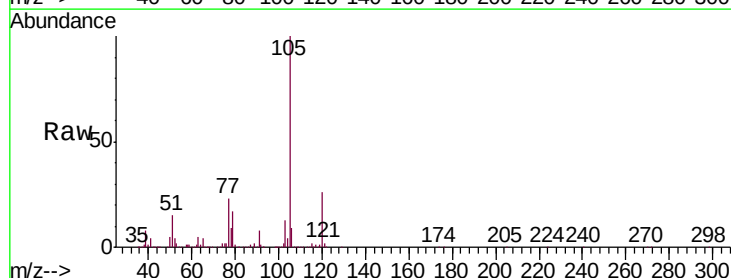
Acq: 19 Feb 2020 9:22

Tgt Ion:105 Resp: 3228543

Ion Ratio Lower Upper

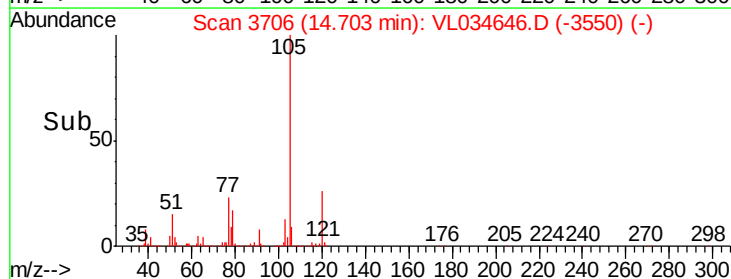
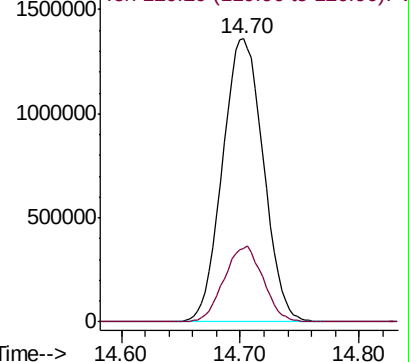
105 100

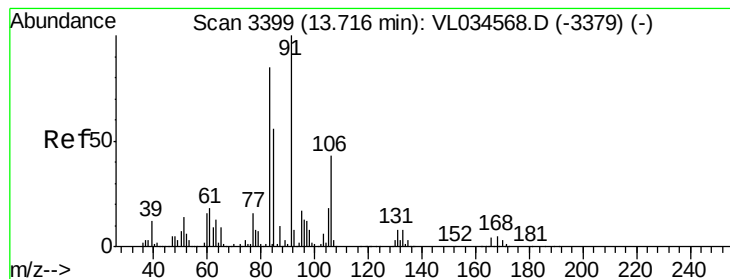
120 25.6 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.403 ppbv

RT: 13.71 min Scan# 3398

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

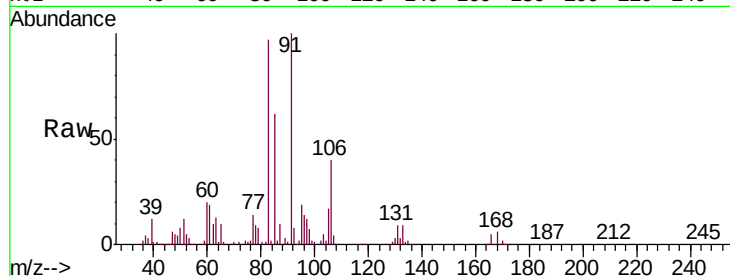
Tgt Ion: 83 Resp: 1726692

Ion Ratio Lower Upper

83 100

131 9.7 4.9 14.6

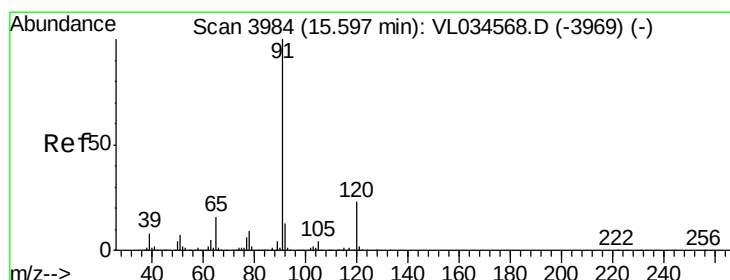
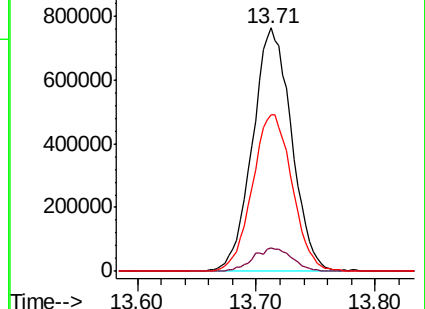
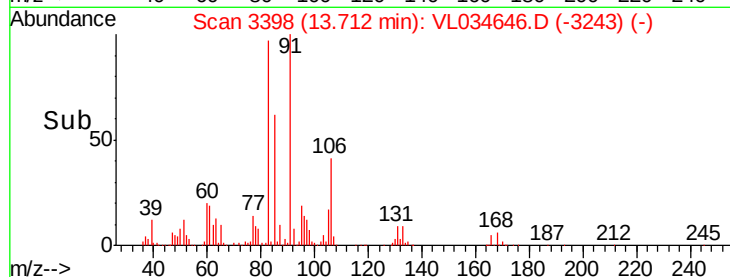
85 66.1 32.6 98.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 4.810 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. -0.00 min

Lab File: VL034646.D

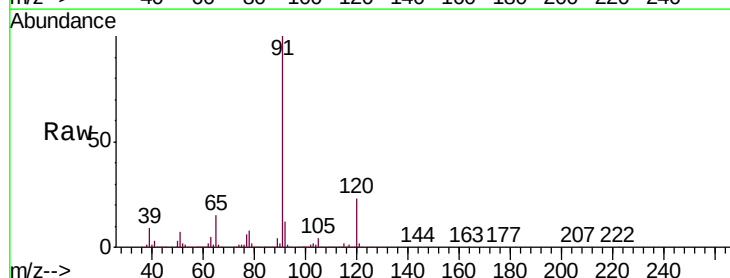
Acq: 19 Feb 2020 9:22

Tgt Ion: 120 Resp: 483608

Ion Ratio Lower Upper

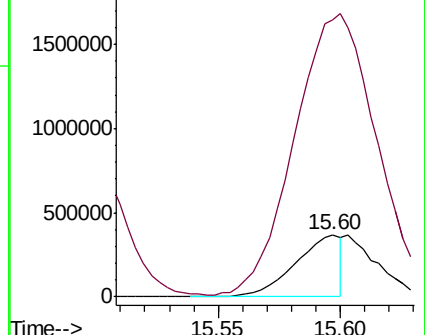
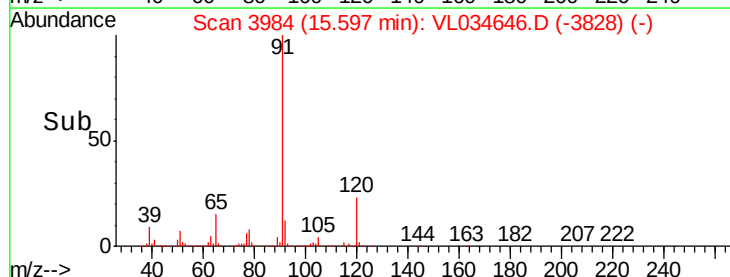
120 100

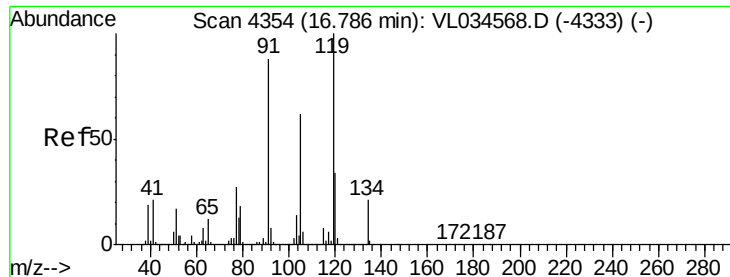
91 519.6 365.3 547.9



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

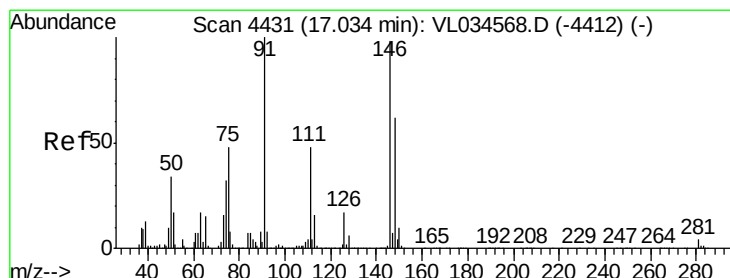
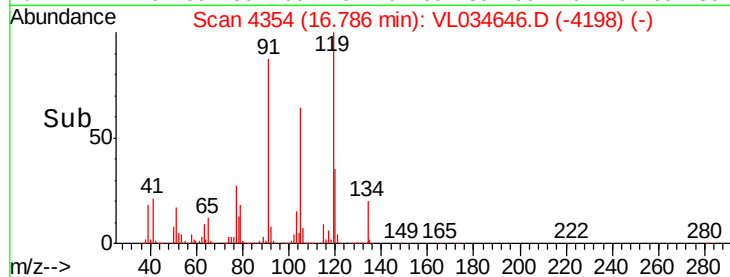
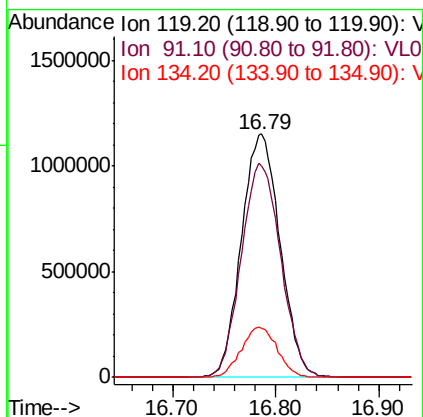
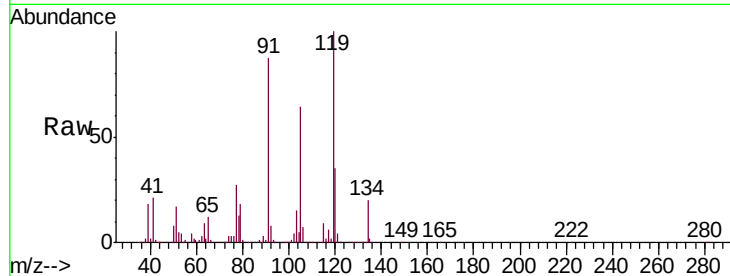




#65  
 tert-Butylbenzene  
 Concen: 8.464 ppbv  
 RT: 16.79 min Scan# 4354  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

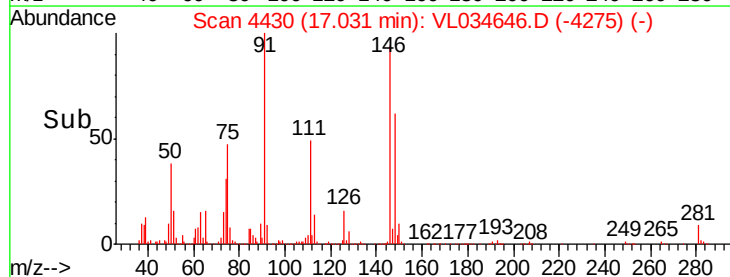
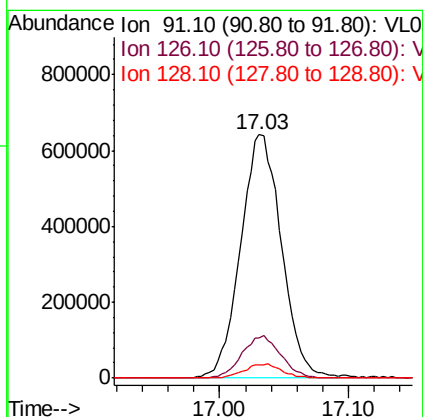
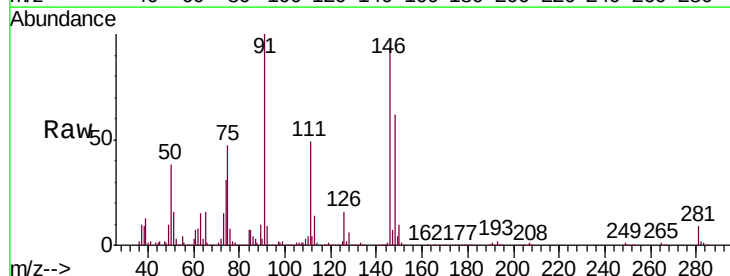
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

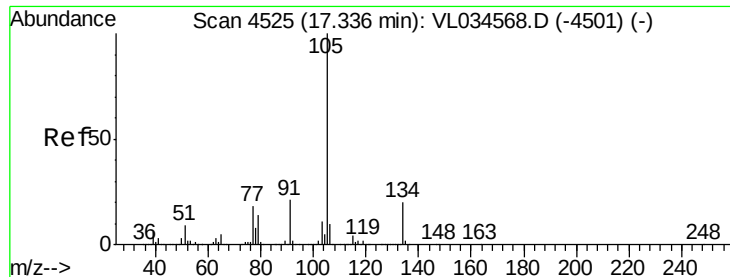
Tgt Ion:119 Resp: 2996899  
 Ion Ratio Lower Upper  
 119 100  
 91 90.1 72.2 108.4  
 134 19.3 15.9 23.9



#66  
 Benzyl Chloride  
 Concen: 9.470 ppbv  
 RT: 17.03 min Scan# 4430  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 91 Resp: 1405902  
 Ion Ratio Lower Upper  
 91 100  
 126 16.7 13.4 20.0  
 128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.503 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

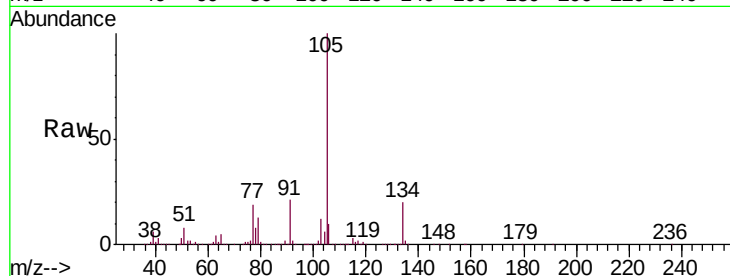
VSTDCCC010EC

Tgt Ion:105 Resp: 4137590

Ion Ratio Lower Upper

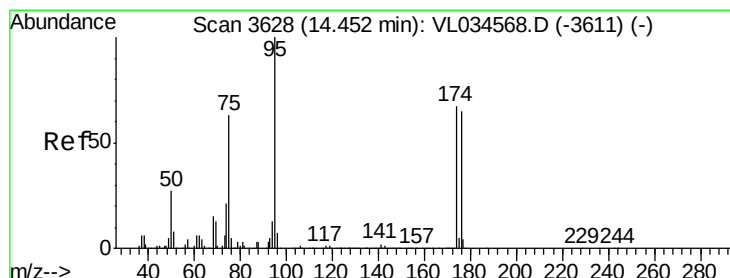
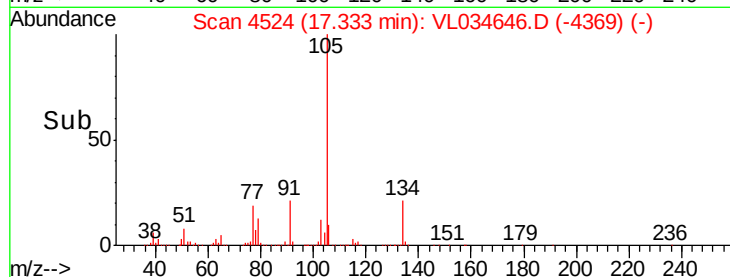
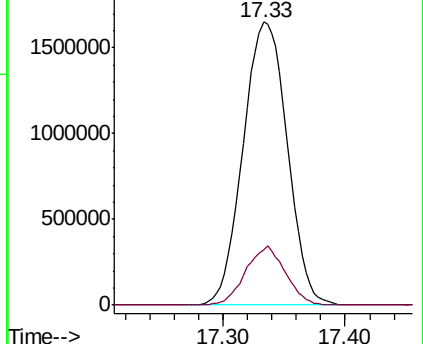
105 100

134 18.7 15.5 23.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.270 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

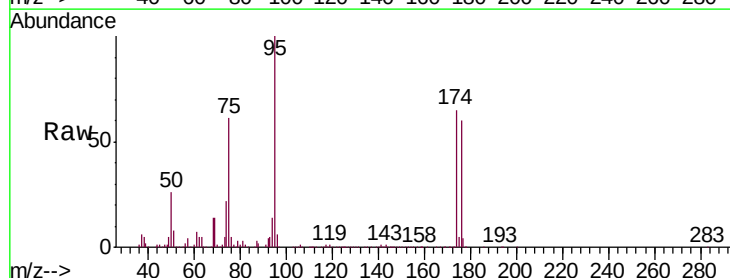
Tgt Ion: 95 Resp: 1774297

Ion Ratio Lower Upper

95 100

174 63.9 52.3 78.5

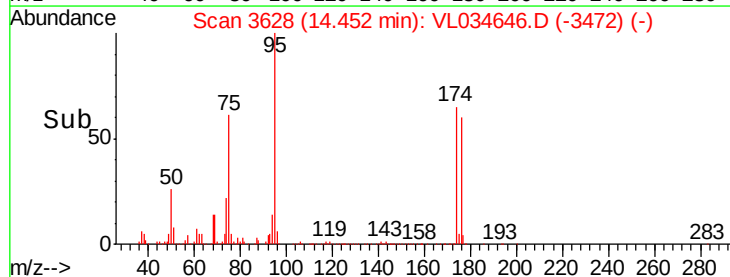
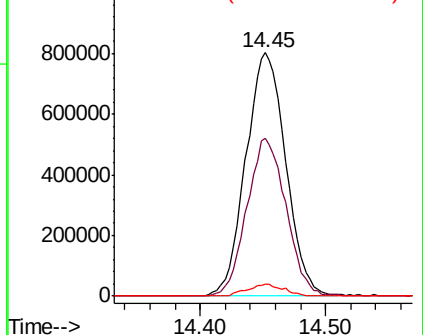
175 4.7 3.8 5.6

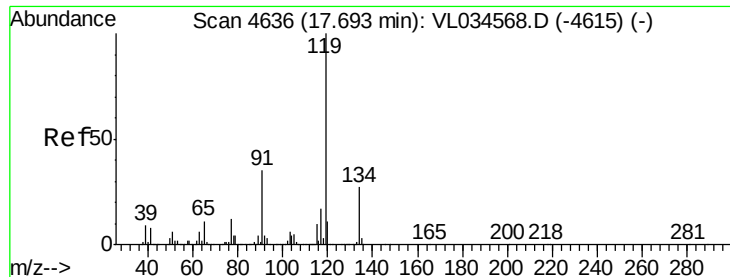


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 8.895 ppbv

RT: 17.69 min Scan# 4636

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

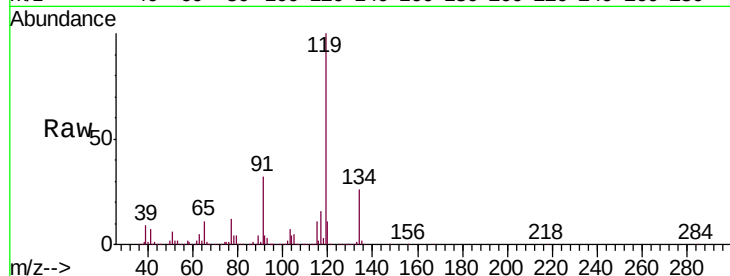
Tgt Ion: 119 Resp: 3514452

Ion Ratio Lower Upper

119 100

134 25.9 20.7 31.1

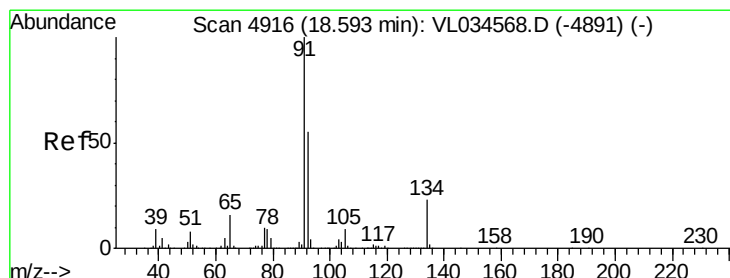
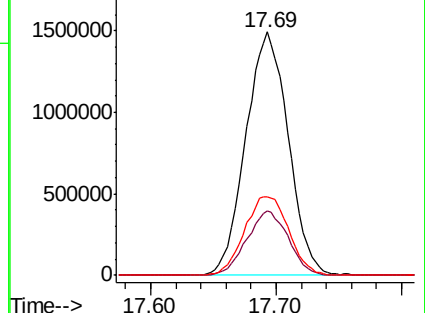
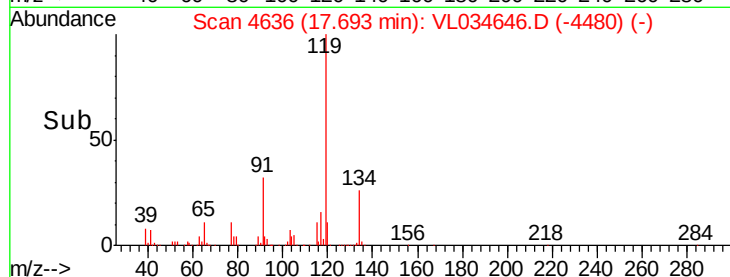
91 33.9 26.9 40.3



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.098 ppbv

RT: 18.59 min Scan# 4915

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

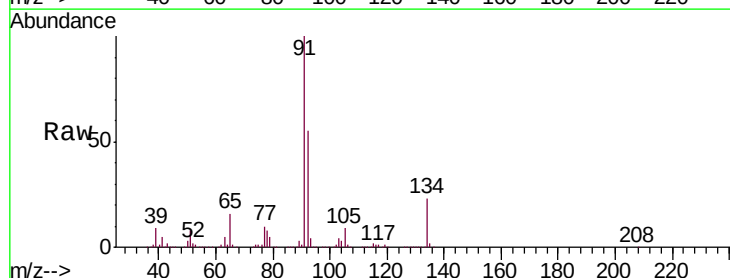
Tgt Ion: 91 Resp: 3815871

Ion Ratio Lower Upper

91 100

92 54.2 43.6 65.4

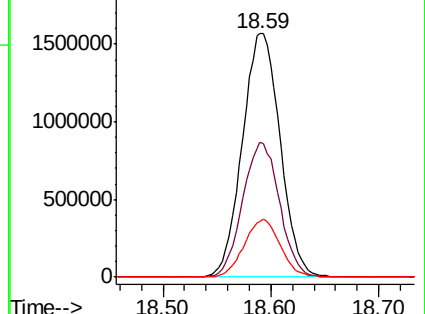
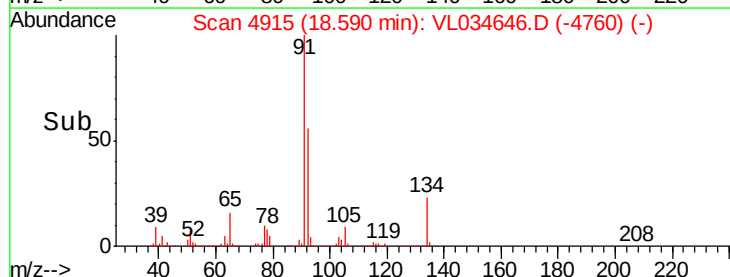
134 22.7 18.2 27.4

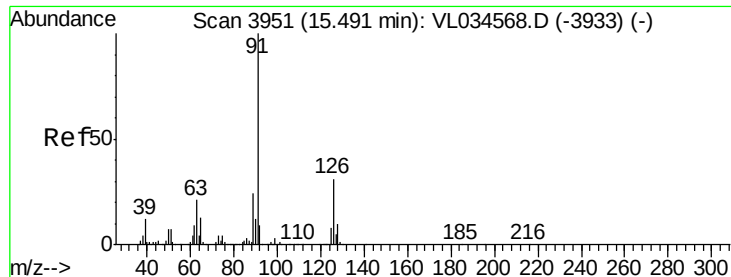


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

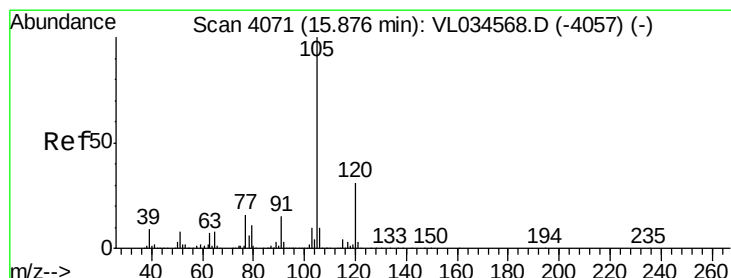
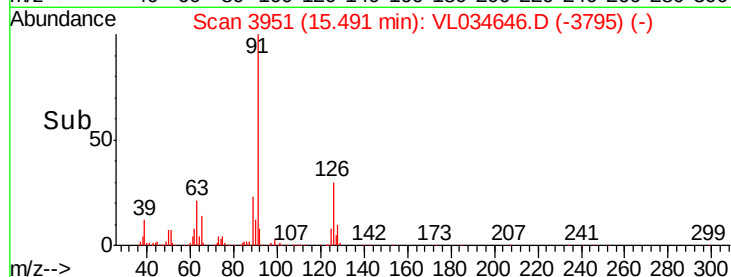
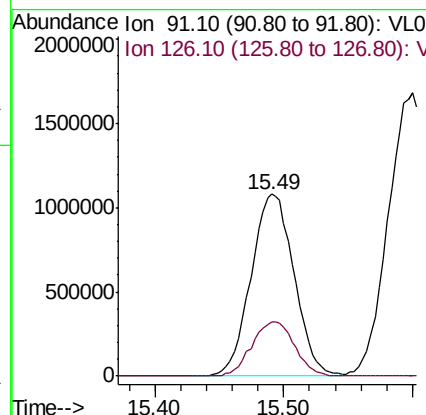
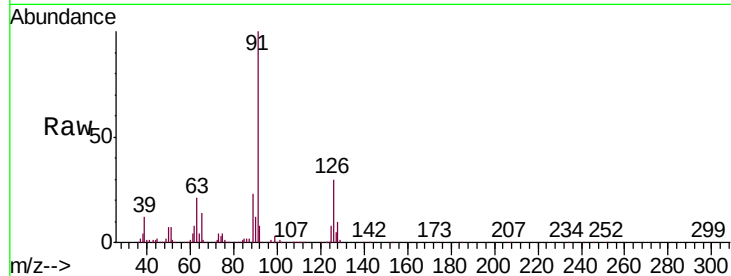




#71  
 2-Chlorotoluene  
 Concen: 8.471 ppbv  
 RT: 15.49 min Scan# 3951  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

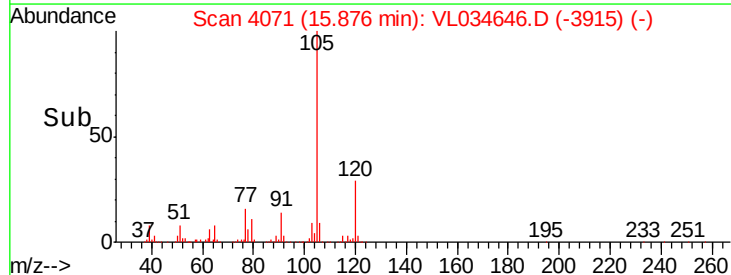
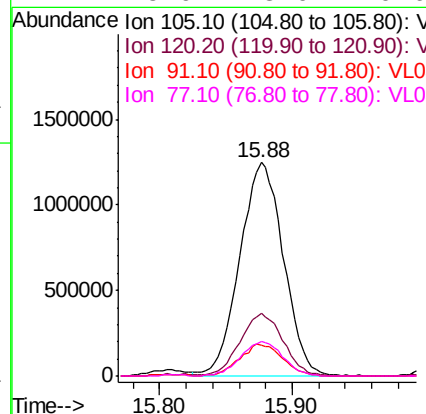
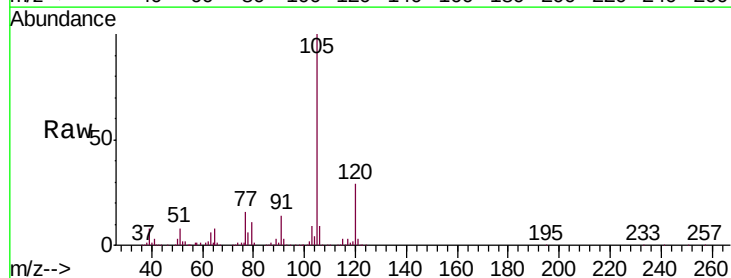
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion: 91 Resp: 2513003  
 Ion Ratio Lower Upper  
 91 100  
 126 29.9 12.0 47.8

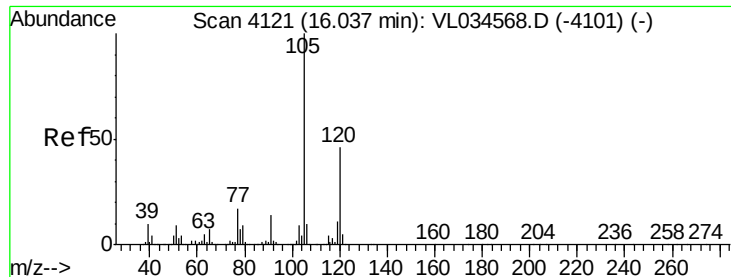


#72  
 4-Ethyltoluene  
 Concen: 8.574 ppbv  
 RT: 15.88 min Scan# 4071  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Tgt Ion: 105 Resp: 2840399  
 Ion Ratio Lower Upper  
 105 100  
 120 29.1 23.8 35.6  
 91 14.6 11.8 17.8  
 77 15.9 13.0 19.6







#73

1,3,5-Trimethylbenzene

Concen: 8.506 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.01 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

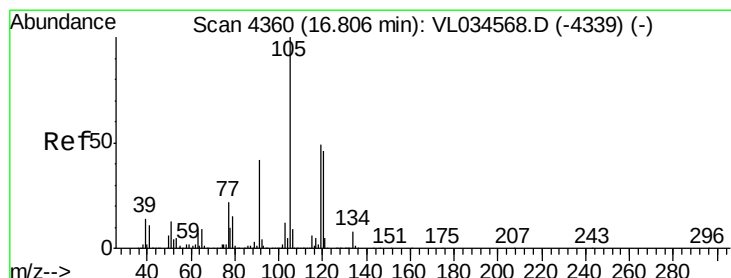
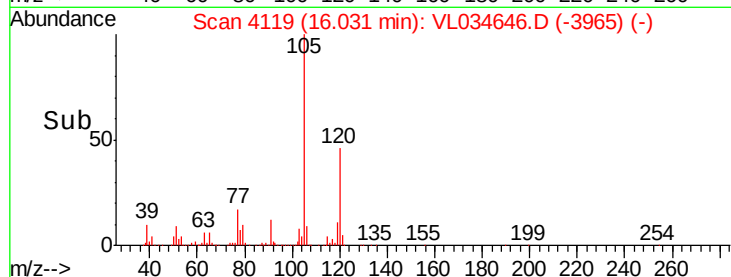
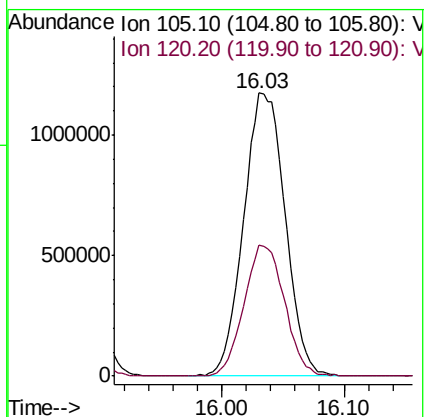
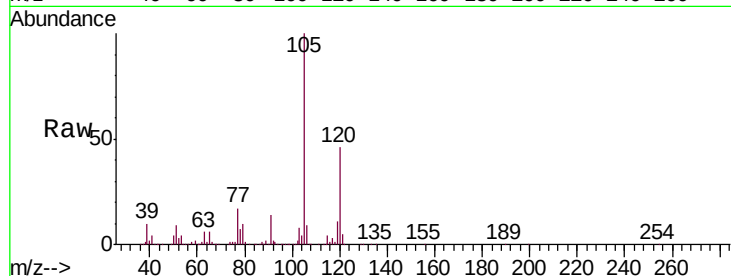
VSTDCCC010EC

Tgt Ion:105 Resp: 2753341

Ion Ratio Lower Upper

105 100

120 46.1 37.0 55.6



#74

1,2,4-Trimethylbenzene

Concen: 8.252 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Tgt Ion:105 Resp: 2957157

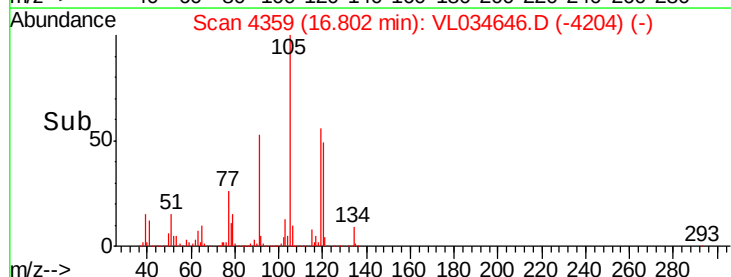
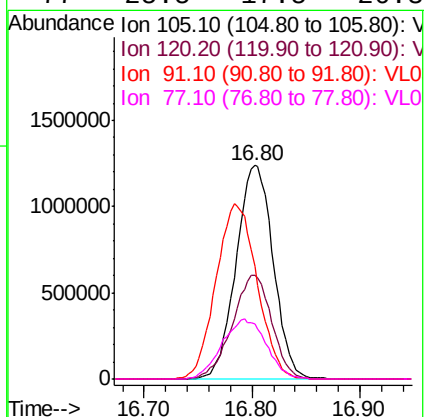
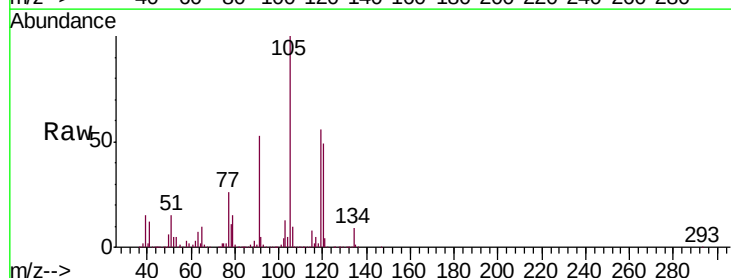
Ion Ratio Lower Upper

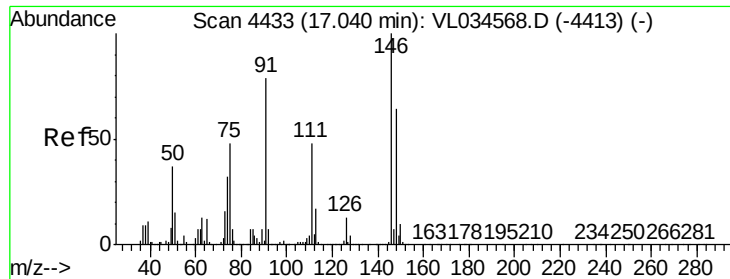
105 100

120 48.7 37.1 55.7

91 52.8 34.3 51.5#

77 25.5 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 8.340 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

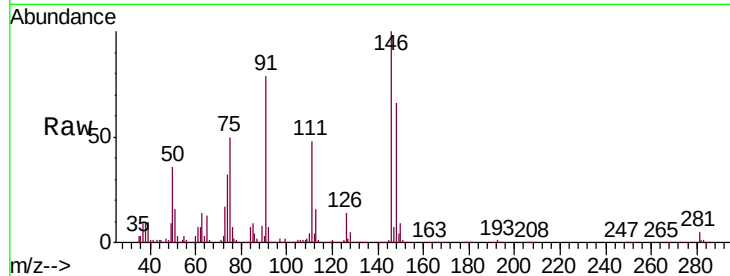
Tgt Ion:146 Resp: 1720856

Ion Ratio Lower Upper

146 100

111 48.7 24.7 74.1

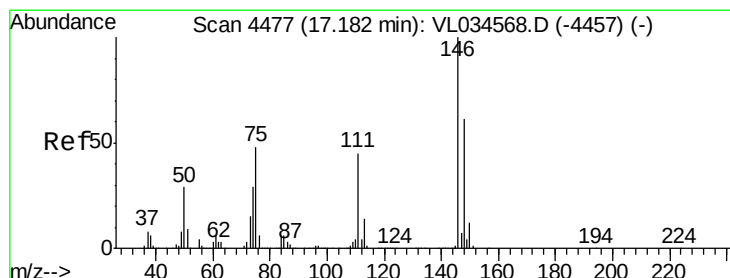
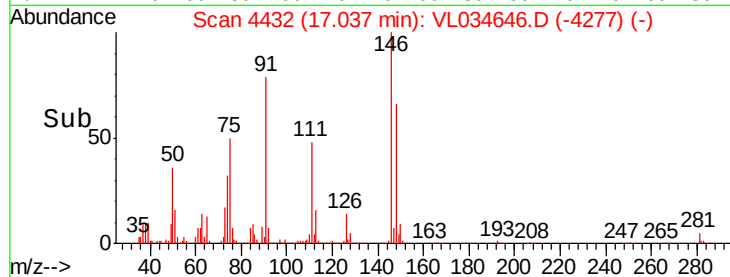
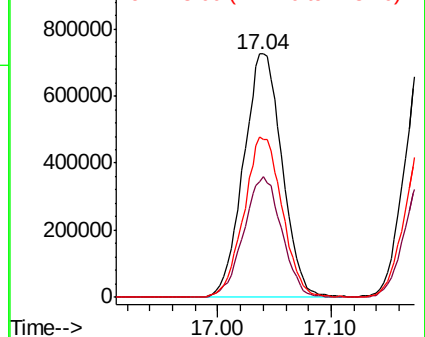
148 65.4 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.491 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

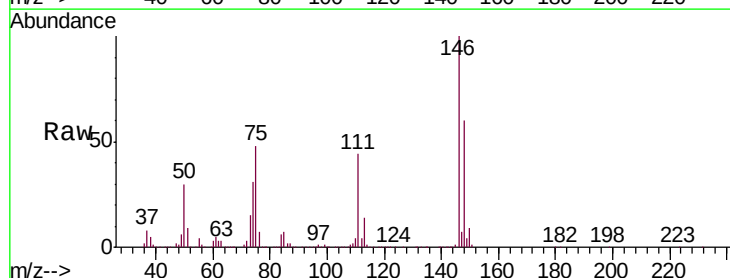
Tgt Ion:146 Resp: 1726738

Ion Ratio Lower Upper

146 100

111 48.2 24.1 72.2

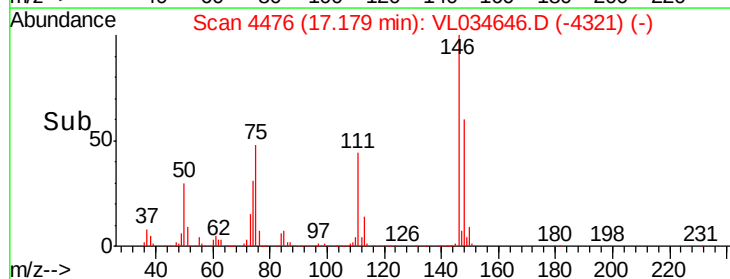
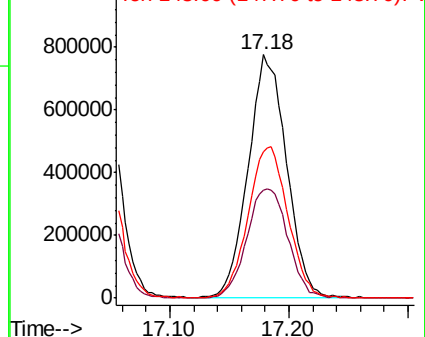
148 64.8 32.6 98.0

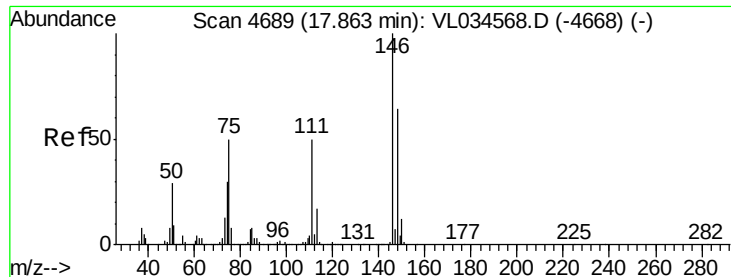


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.659 ppbv

RT: 17.86 min Scan# 4689

Delta R.T. 0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

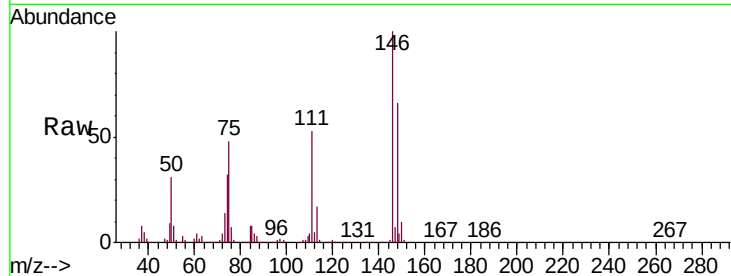
Tgt Ion:146 Resp: 1716317

Ion Ratio Lower Upper

146 100

111 50.9 25.1 75.3

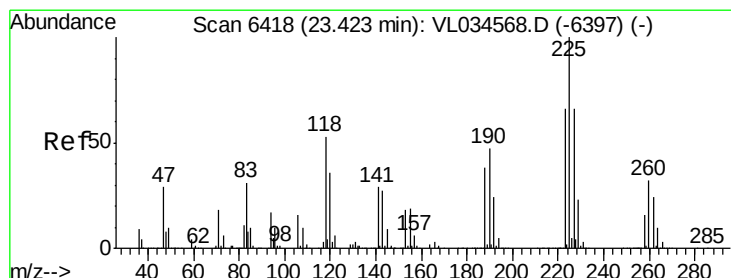
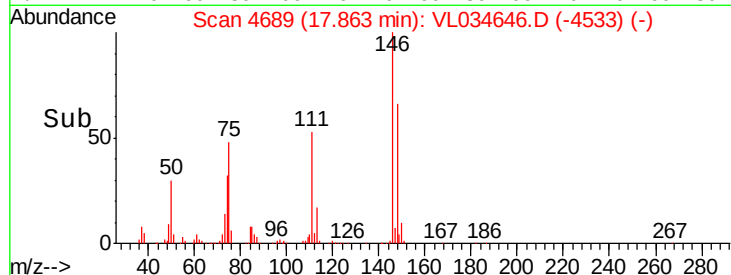
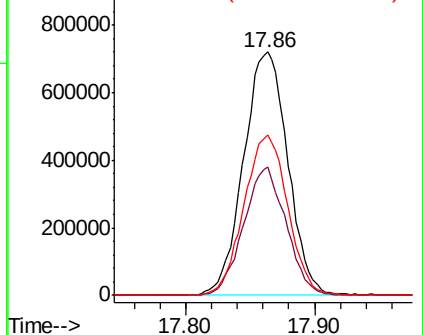
148 65.5 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 4.518 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

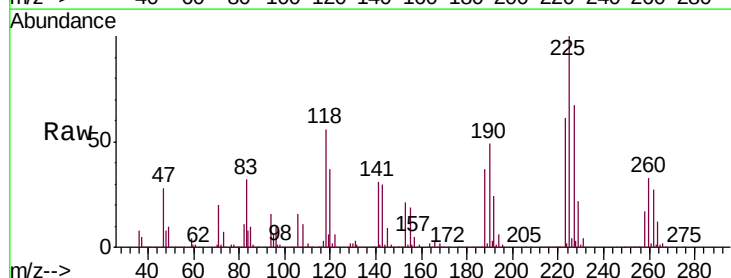
Tgt Ion:225 Resp: 856448

Ion Ratio Lower Upper

225 100

223 128.6 50.9 76.3#

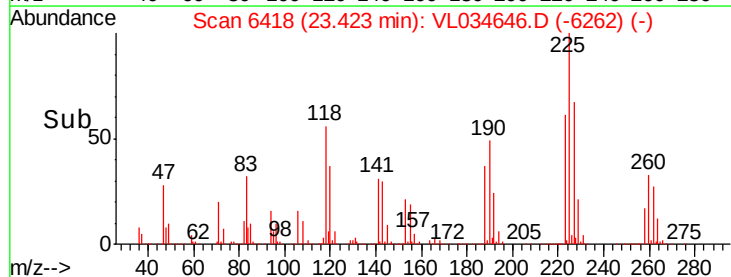
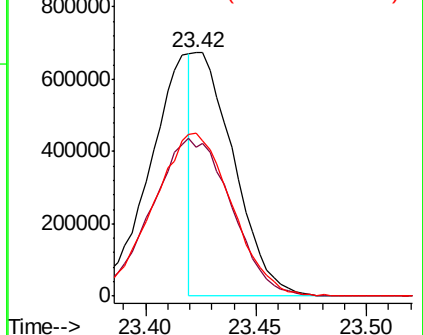
227 131.1 51.6 77.4#

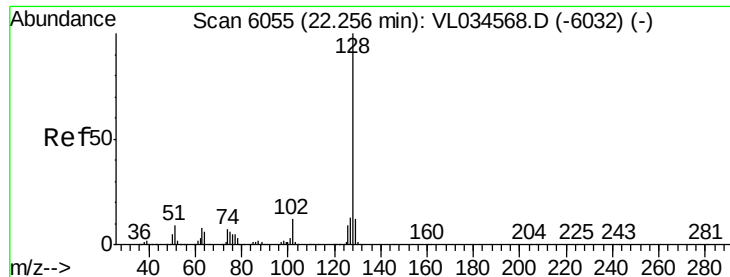


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.951 ppbv

RT: 22.26 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

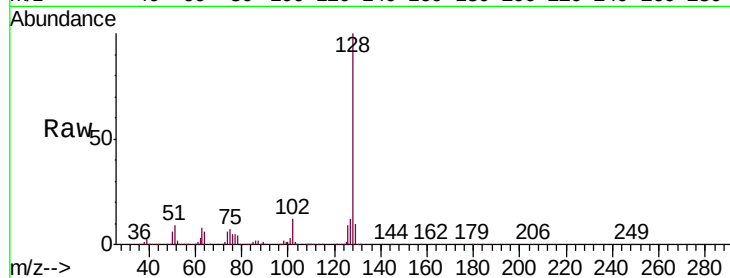
Tgt Ion:128 Resp: 3089688

Ion Ratio Lower Upper

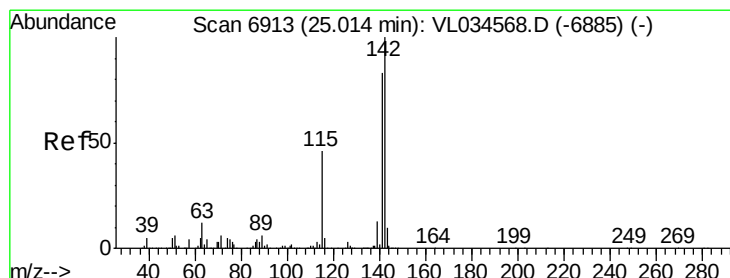
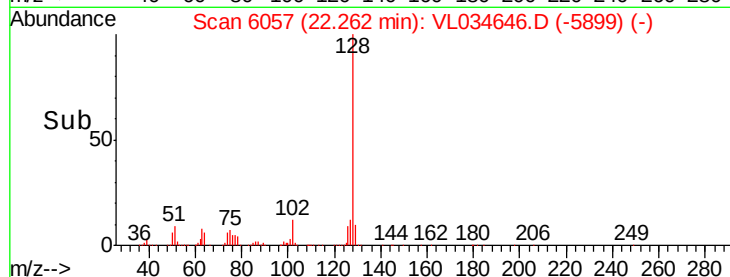
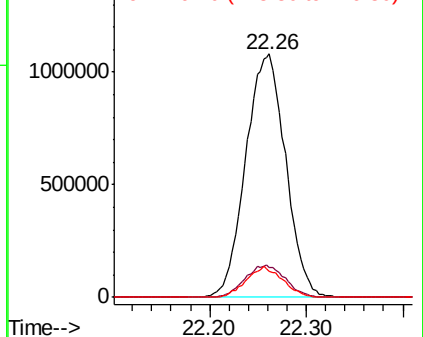
128 100

127 12.1 10.1 15.1

129 10.4 9.3 13.9



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 9.657 ppbv

RT: 25.01 min Scan# 6912

Delta R.T. -0.00 min

Lab File: VL034646.D

Acq: 19 Feb 2020 9:22

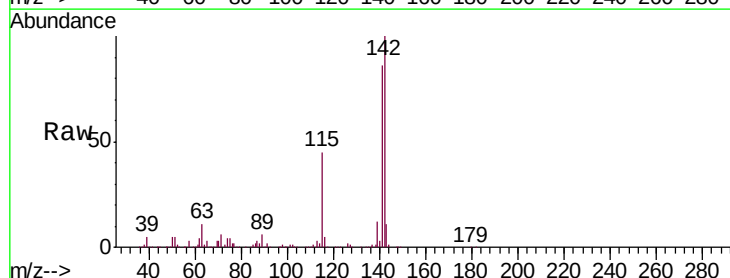
Tgt Ion:142 Resp: 1048131

Ion Ratio Lower Upper

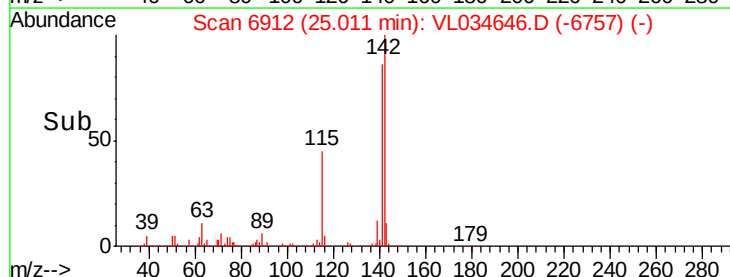
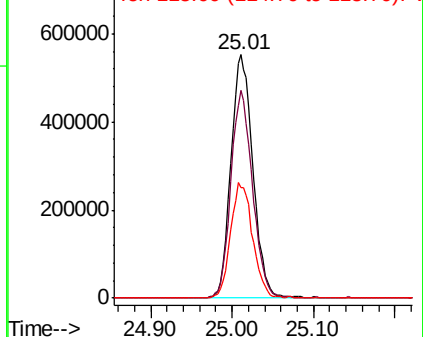
142 100

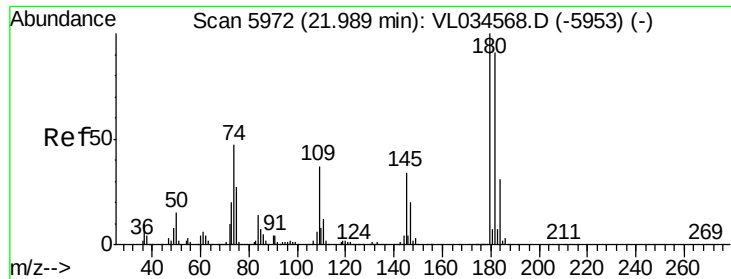
141 84.4 67.0 100.4

115 47.5 39.5 59.3



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.751 ppbv  
 RT: 21.99 min Scan# 5971  
 Delta R.T. -0.00 min  
 Lab File: VL034646.D  
 Acq: 19 Feb 2020 9:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion:180 Resp: 1869861  
 Ion Ratio Lower Upper  
 180 100  
 182 97.0 77.8 116.6  
 184 30.8 25.4 38.0

