

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\  
 Data File : VL034912.D  
 Acq On : 17 Mar 2020 5:11  
 Operator : SY/AP  
 Sample : VSTDCCC010EC  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Mar 17 07:18:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 09 16:42:53 2020  
 QLast Update : Mon Mar 09 16:42:53 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 894408   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 1910241  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 2011384  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 1598385  | 10.19    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.90% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.01 | 85   | 1713585  | 13.991 | ppbv  | 98     |
| 3) Chlorodifluoromethane       | 2.95 | 51   | 1074738  | 10.757 | ppbv  | 97     |
| 4) Chloromethane               | 3.10 | 50   | 637031   | 11.281 | ppbv  | 97     |
| 5) Vinyl Chloride              | 3.22 | 62   | 605623   | 11.156 | ppbv  | 95     |
| 6) Bromomethane                | 3.44 | 94   | 364640   | 11.538 | ppbv  | 97     |
| 7) Chloroethane                | 3.52 | 64   | 222561   | 11.353 | ppbv  | 99     |
| 8) Dichlorotetrafluoroethane   | 3.15 | 85   | 1358444  | 10.680 | ppbv  | 94     |
| 9) Propene                     | 2.97 | 41   | 498177   | 10.443 | ppbv  | 99     |
| 10) Heptane                    | 8.13 | 43   | 1326938  | 11.303 | ppbv  | 100    |
| 11) Trichlorofluoromethane     | 3.92 | 101  | 1395283  | 10.708 | ppbv  | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101  | 988354   | 10.838 | ppbv  | 95     |
| 13) Ethanol                    | 3.57 | 45   | 134524   | 9.276  | ppbv  | 90     |
| 14) Bromoethene                | 3.71 | 108  | 429635   | 10.908 | ppbv  | 99     |
| 15) Acetone                    | 3.82 | 43   | 1280587  | 11.047 | ppbv  | 97     |
| 16) 1,3-Butadiene              | 3.29 | 39   | 570714   | 10.887 | ppbv  | 98     |
| 17) tert-Butyl alcohol         | 4.27 | 59   | 913841   | 8.182  | ppbv  | 99     |
| 18) 1,1-Dichloroethene         | 4.26 | 96   | 449746   | 11.136 | ppbv  | 99     |
| 19) Isopropyl Alcohol          | 3.94 | 45   | 676092   | 9.236  | ppbv  | # 41   |
| 20) Methylene Chloride         | 4.32 | 84   | 396605   | 10.821 | ppbv  | 98     |
| 21) Allyl Chloride             | 4.39 | 41   | 801607   | 10.767 | ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96   | 453092   | 11.059 | ppbv  | 99     |
| 23) Vinyl Acetate              | 5.06 | 43   | 1858917  | 10.856 | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 4.99 | 63   | 1207962  | 10.523 | ppbv  | 100    |
| 25) Ethyl Acetate              | 5.66 | 43   | 2158791  | 10.453 | ppbv  | 100    |
| 26) Hexane                     | 5.67 | 57   | 967429   | 10.878 | ppbv  | 98     |
| 27) Carbon Disulfide           | 4.52 | 76   | 1152076  | 11.416 | ppbv  | 98     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1439943  | 9.731  | ppbv  | 99     |
| 29) Chloroform                 | 5.74 | 83   | 1477575  | 10.889 | ppbv  | 97     |
| 30) Cyclohexane                | 7.13 | 84   | 801886   | 10.807 | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61   | 967104   | 10.633 | ppbv  | 97     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 1416519  | 10.714 | ppbv  | 98     |
| 34) 2-Butanone                 | 5.23 | 43   | 1467504  | 11.560 | ppbv  | 100    |
| 35) Carbon Tetrachloride       | 7.02 | 117  | 1443184  | 12.147 | ppbv  | 99     |
| 36) Benzene                    | 6.89 | 78   | 1930402  | 11.337 | ppbv  | 98     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 1145973  | 11.936 | ppbv  | 98     |
| 38) Trichloroethene            | 7.84 | 130  | 724613   | 11.205 | ppbv  | 96     |
| 39) 1,2-Dichloropropane        | 7.62 | 63   | 749876   | 11.116 | ppbv  | 94     |
| 40) 1,4-Dioxane                | 7.84 | 88   | 270371   | 10.612 | ppbv  | # 94   |
| 41) Tetrahydrofuran            | 6.04 | 42   | 796513   | 11.596 | ppbv  | 98     |
| 42) Bromodichloromethane       | 7.80 | 83   | 1547405  | 11.826 | ppbv  | 97     |
| 43) Methyl Methacrylate        | 8.02 | 69   | 874983   | 12.198 | ppbv  | 98     |

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 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

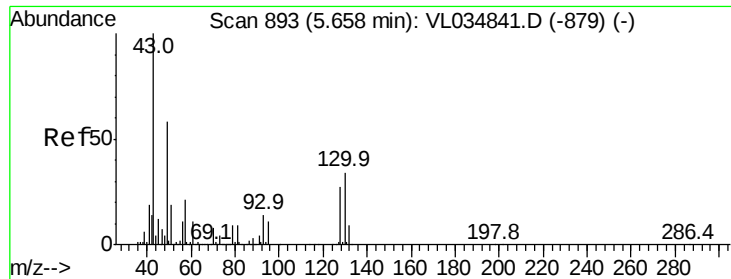
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Mar 17 07:18:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 09 16:42:53 2020  
 QLast Update : Mon Mar 09 16:42:53 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 3365811  | 11.698 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 997241   | 11.833 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1164290  | 11.626 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 788359   | 11.387 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.32 | 129  | 1247228  | 11.124 | ppbv   | 100      |
| 49) Bromoform                 | 13.07 | 173  | 1086605  | 10.870 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2178920  | 11.924 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.15 | 43   | 1740714  | 11.721 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.24 | 164  | 658468   | 9.775  | ppbv   | 97       |
| 53) Toluene                   | 9.82  | 91   | 2227397  | 11.328 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 1168885  | 11.216 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 951629   | 10.532 | ppbv   | 95       |
| 57) Chlorobenzene             | 12.17 | 112  | 1637905  | 10.408 | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.73 | 91   | 2956841  | 10.855 | ppbv   | 96       |
| 59) m/p-Xylene                | 13.02 | 91   | 2477565  | 10.857 | ppbv # | 37       |
| 60) o-Xylene                  | 13.72 | 91   | 2386377  | 10.710 | ppbv   | 98       |
| 61) Styrene                   | 13.55 | 104  | 1726783  | 11.043 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.70 | 105  | 3499067  | 10.386 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 1673198  | 11.062 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.59 | 120  | 917476   | 10.463 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 3029323  | 10.286 | ppbv   | 97       |
| 66) Benzyl Chloride           | 17.02 | 91   | 1260769  | 10.266 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 4356319  | 10.667 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 3590670  | 10.486 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.58 | 91   | 3853942  | 11.031 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 2674552  | 10.483 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 2833749  | 10.769 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 2673624  | 10.854 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 2779312  | 10.952 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 1590505  | 10.394 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 1574195  | 10.309 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.86 | 146  | 1564150  | 10.545 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 1336809  | 10.791 | ppbv   | 100      |
| 79) Naphthalene               | 22.25 | 128  | 2698976  | 13.637 | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 963164   | 18.623 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 1529289  | 12.163 | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

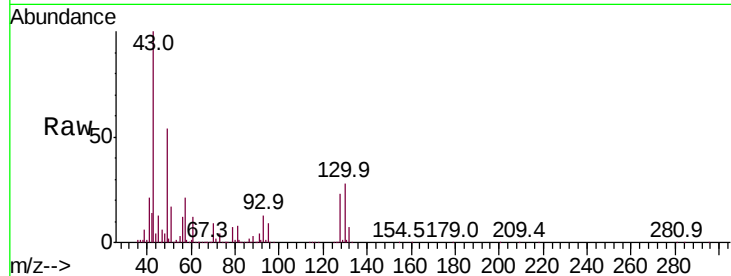
Tot Ion: 49 Resp: 894408

Ion Ratio Lower Upper

49 100

128 43.9 23.4 70.3

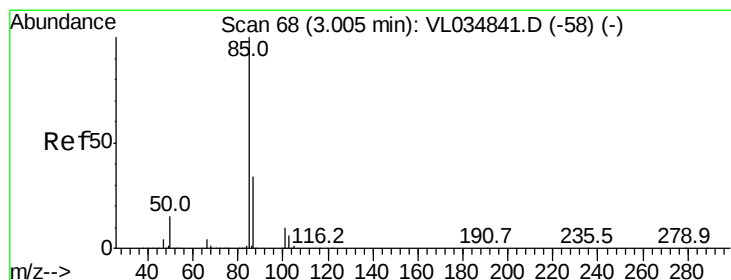
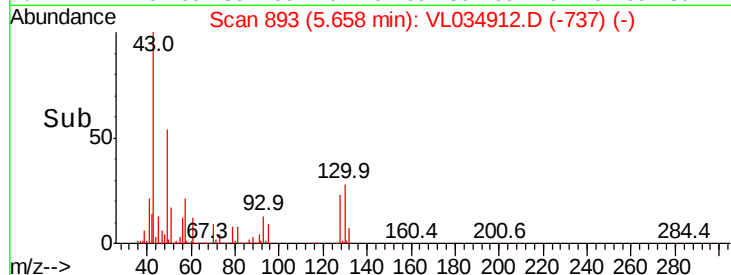
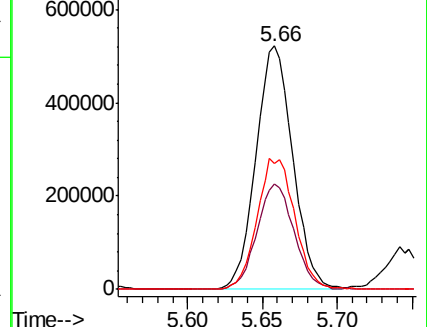
130 55.0 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 13.991 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034912.D

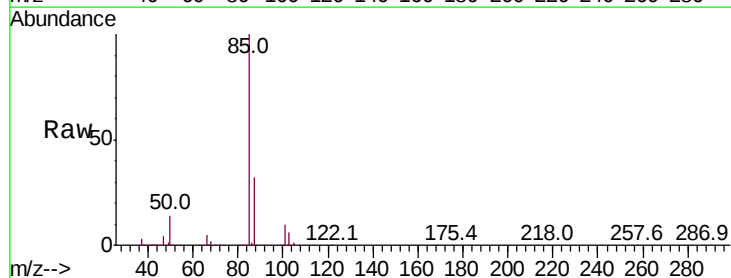
Acq: 17 Mar 2020 5:11

Tgt Ion: 85 Resp: 1713585

Ion Ratio Lower Upper

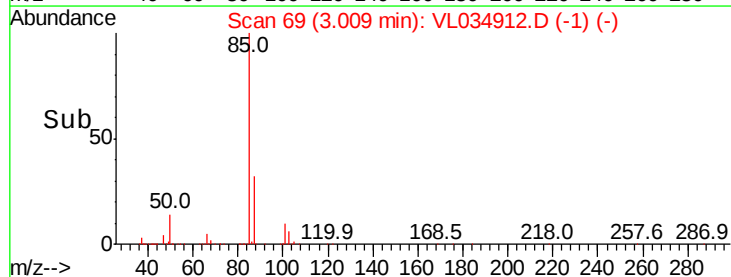
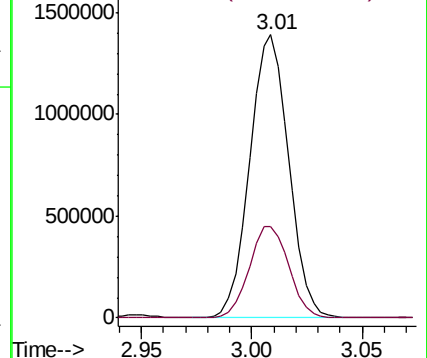
85 100

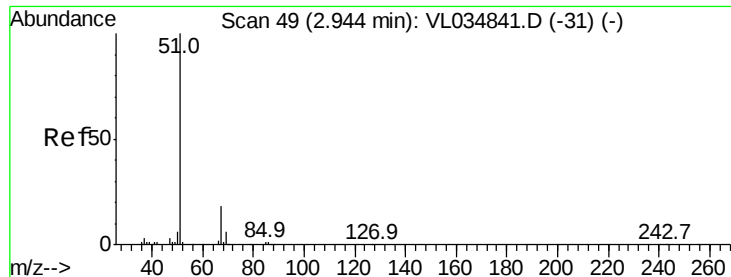
87 32.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.757 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

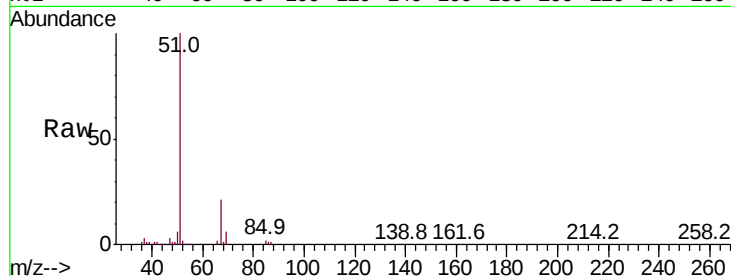
VSTDCCC010EC

Tot Ion: 51 Resp: 1074738

Ion Ratio Lower Upper

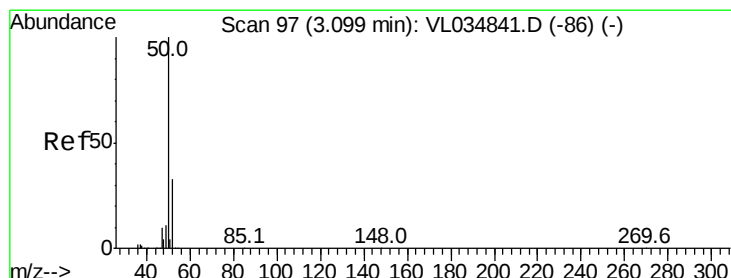
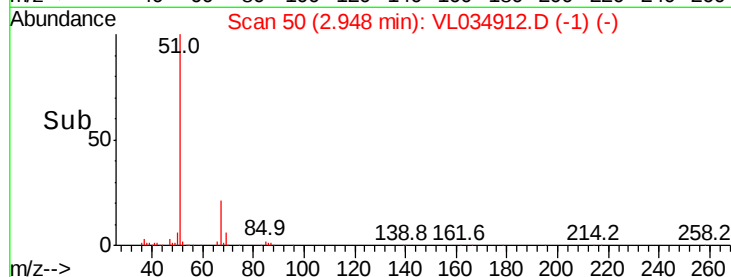
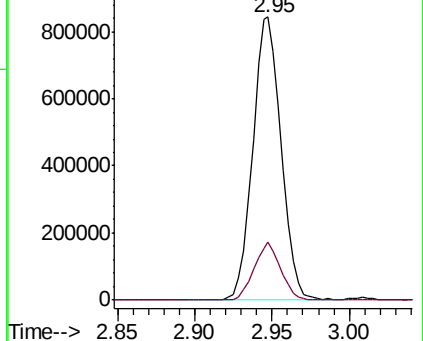
51 100

67 19.2 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.281 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034912.D

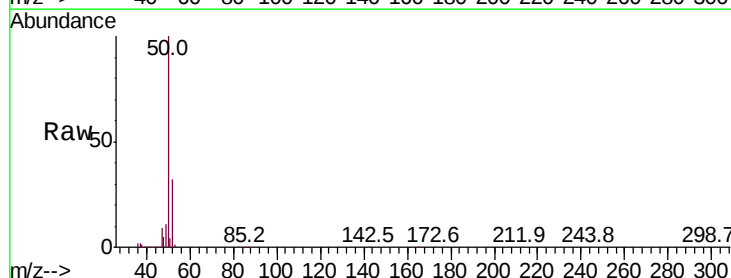
Acq: 17 Mar 2020 5:11

Tgt Ion: 50 Resp: 637031

Ion Ratio Lower Upper

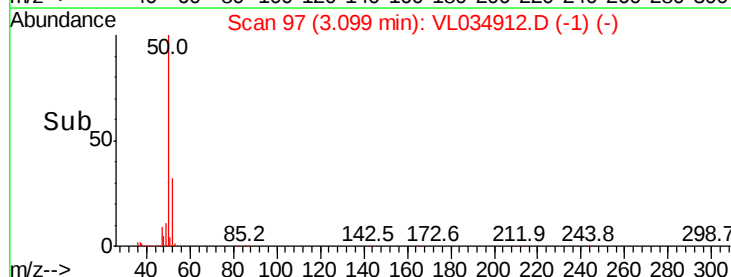
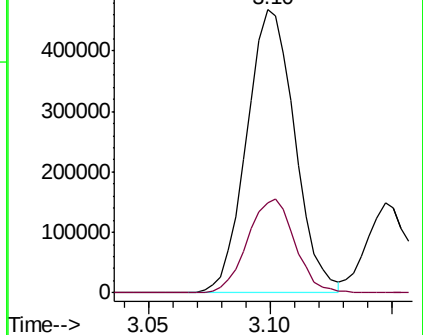
50 100

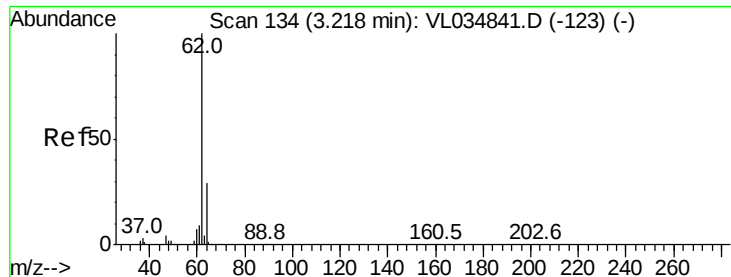
52 31.7 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.156 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

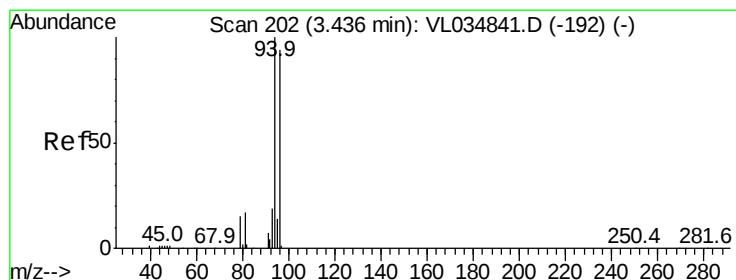
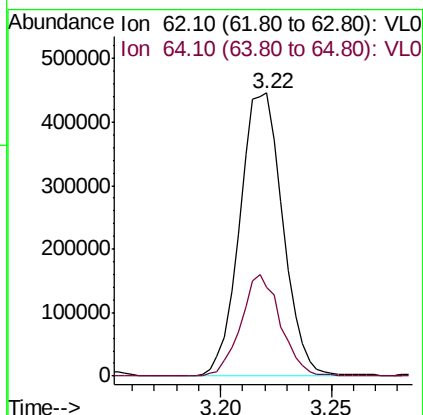
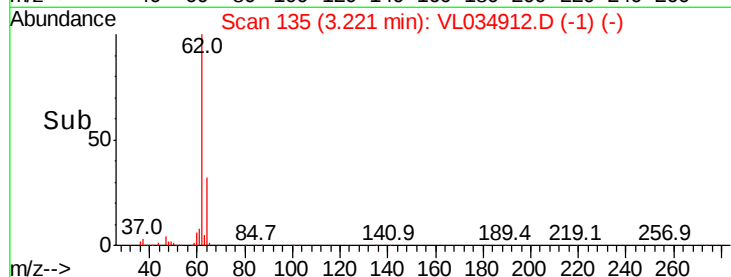
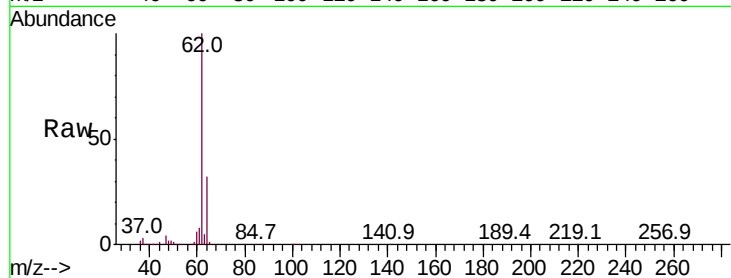
VSTDCCC010EC

Tot Ion: 62 Resp: 605623

Ion Ratio Lower Upper

62 100

64 31.5 23.0 34.4



#6

Bromomethane

Concen: 11.538 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034912.D

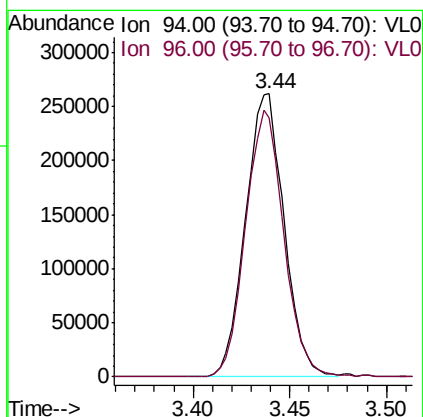
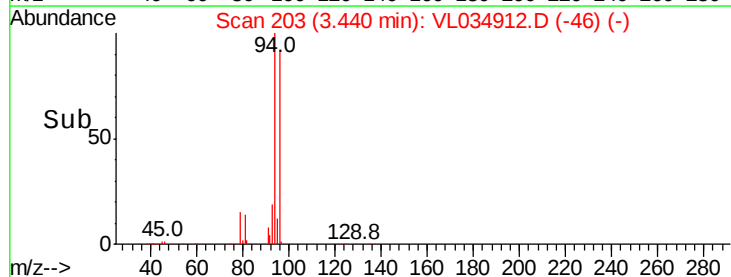
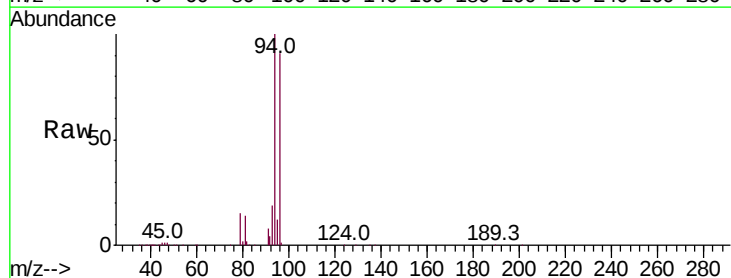
Acq: 17 Mar 2020 5:11

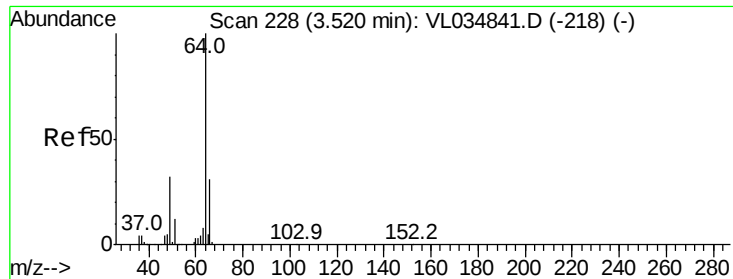
Tgt Ion: 94 Resp: 364640

Ion Ratio Lower Upper

94 100

96 91.4 75.5 113.3





#7

Chloroethane

Concen: 11.353 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

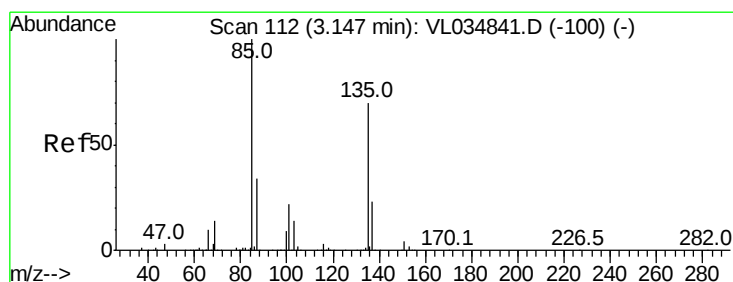
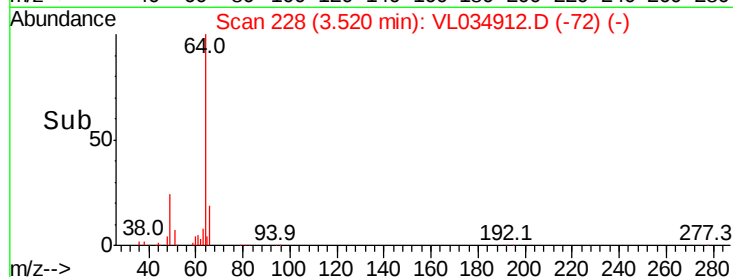
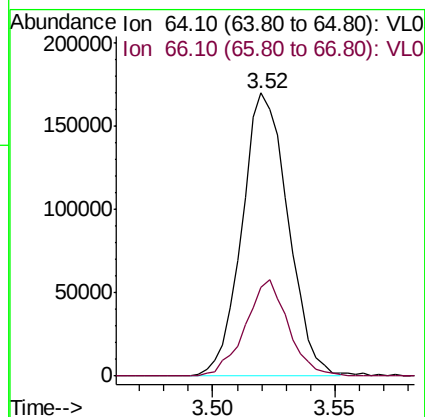
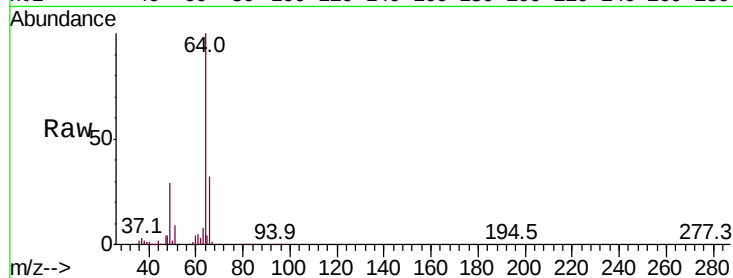
VSTDCCC010EC

Tot Ion: 64 Resp: 222561

Ion Ratio Lower Upper

64 100

66 31.6 24.8 37.2



#8

Dichlorotetrafluoroethane

Concen: 10.680 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034912.D

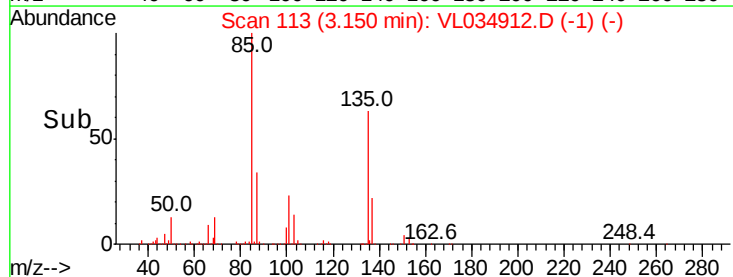
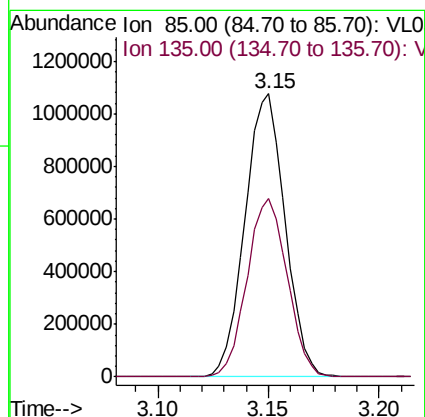
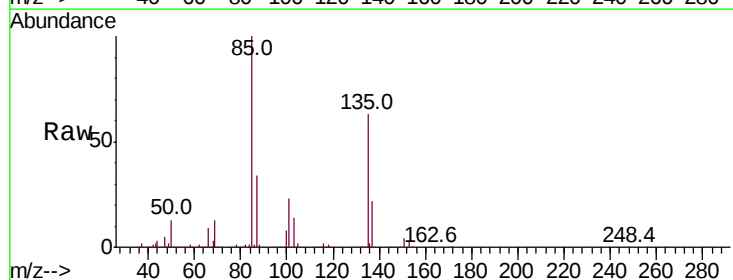
Acq: 17 Mar 2020 5:11

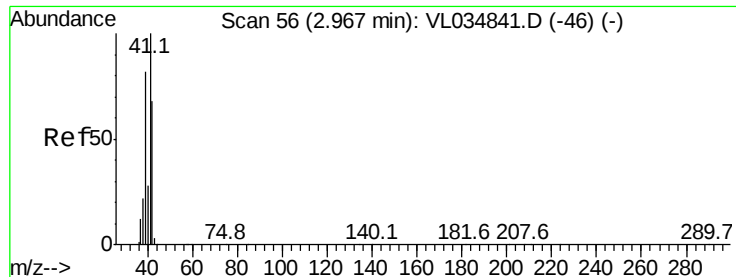
Tgt Ion: 85 Resp: 1358444

Ion Ratio Lower Upper

85 100

135 63.4 54.3 81.5





#9

Propene

Concen: 10.443 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

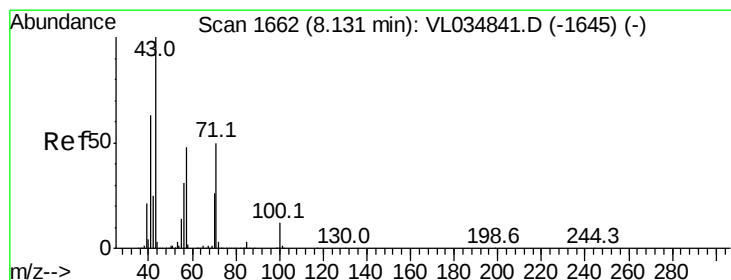
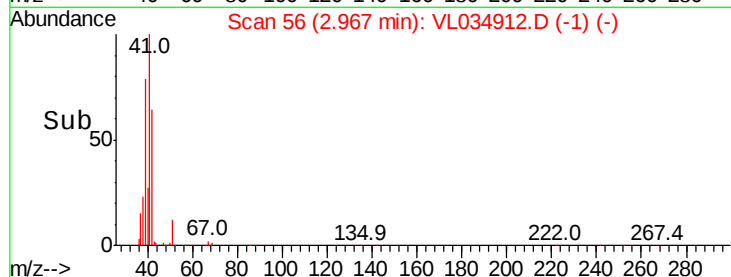
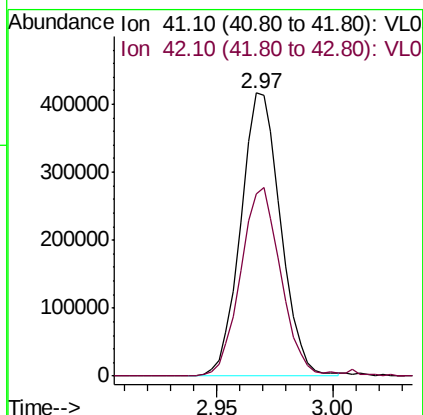
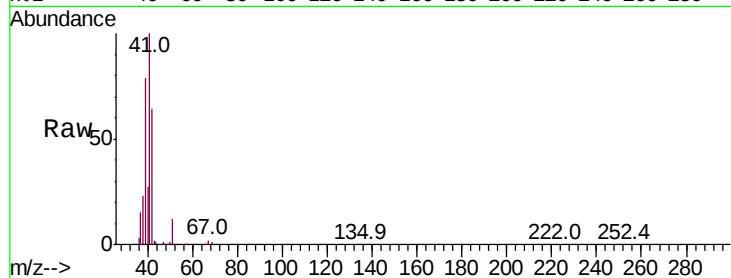
VSTDCCC010EC

Tot Ion: 41 Resp: 498177

Ion Ratio Lower Upper

41 100

42 68.6 55.2 82.8



#10

Heptane

Concen: 11.303 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL034912.D

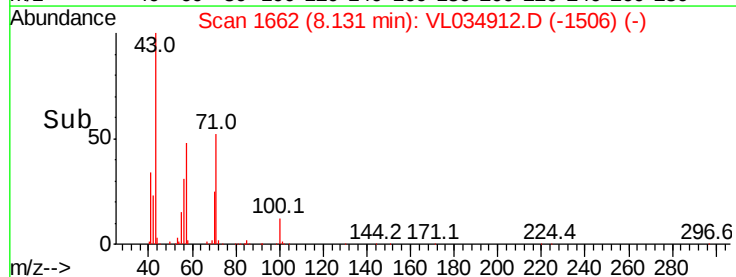
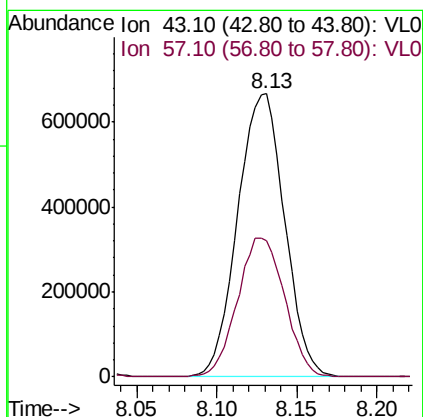
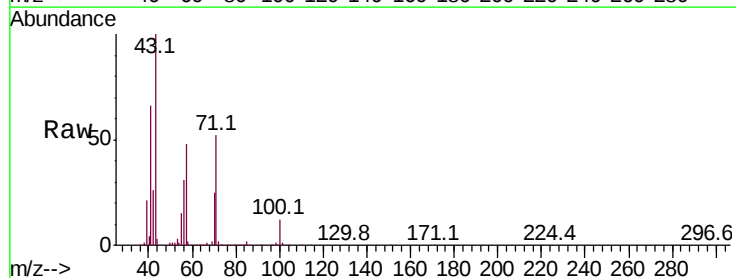
Acq: 17 Mar 2020 5:11

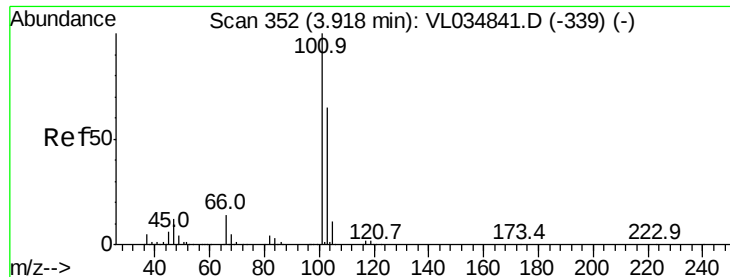
Tgt Ion: 43 Resp: 1326938

Ion Ratio Lower Upper

43 100

57 49.7 39.7 59.5

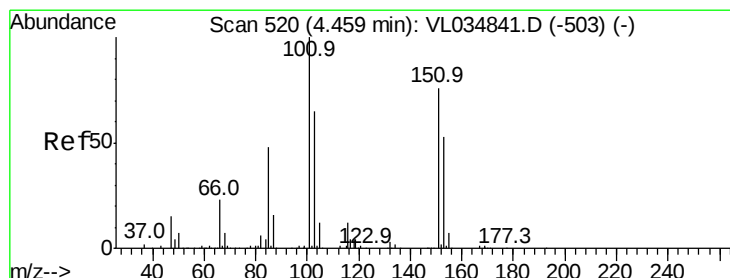
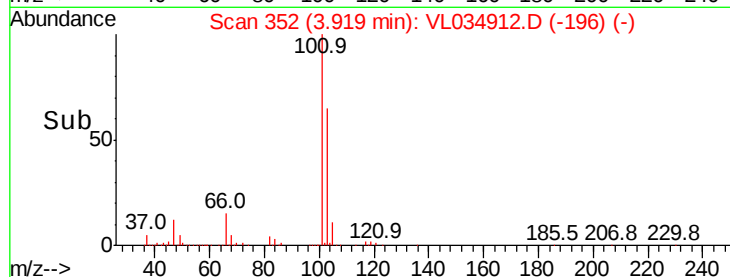
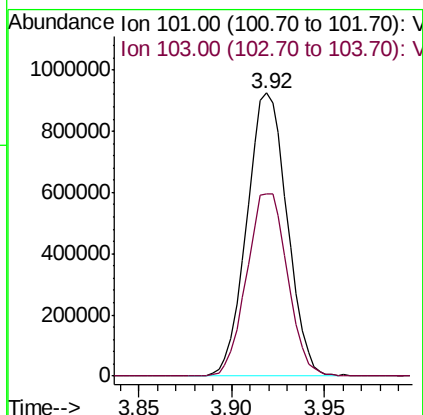
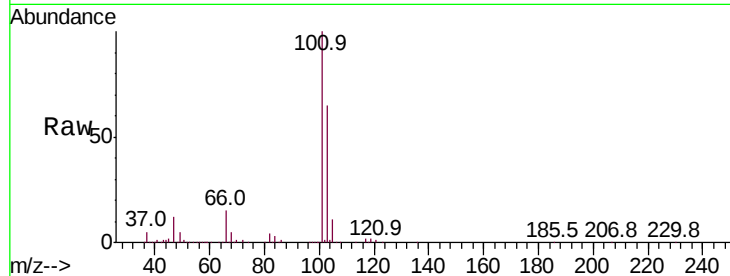




#11  
 Trichlorofluoromethane  
 Concen: 10.708 ppbv  
 RT: 3.92 min Scan# 352  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

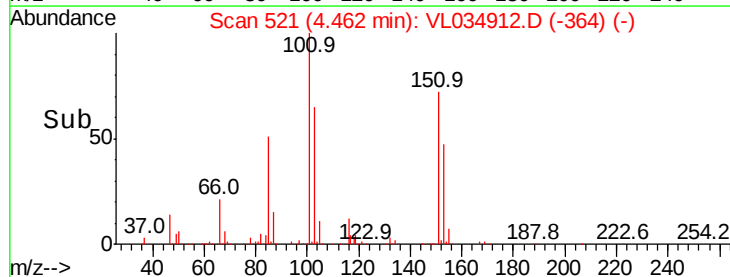
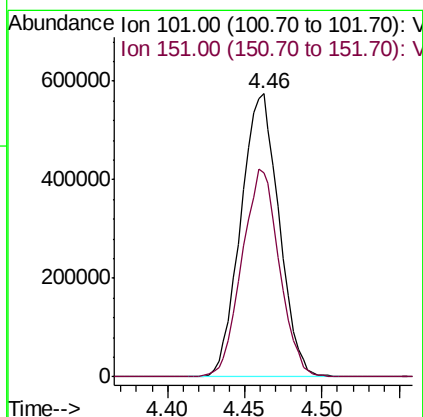
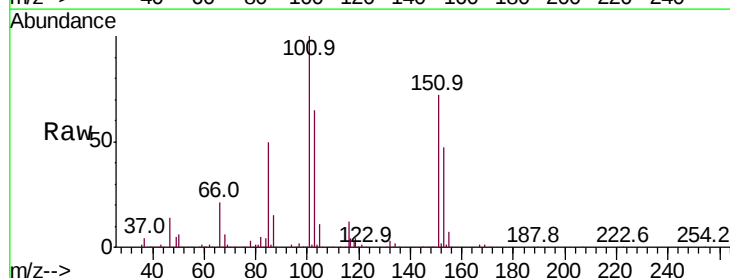
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

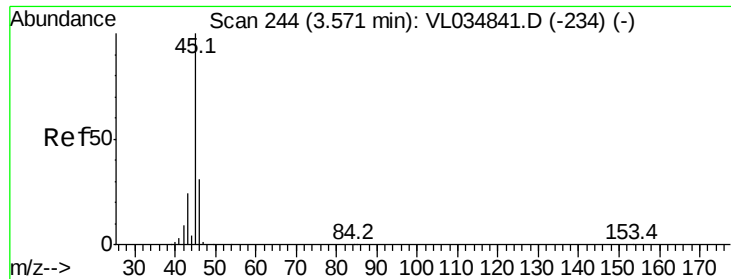
Tot Ion:101 Resp: 1395283  
 Ion Ratio Lower Upper  
 101 100  
 103 64.6 51.8 77.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.838 ppbv  
 RT: 4.46 min Scan# 521  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion:101 Resp: 988354  
 Ion Ratio Lower Upper  
 101 100  
 151 71.9 60.8 91.2





#13

Ethanol

Concen: 9.276 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

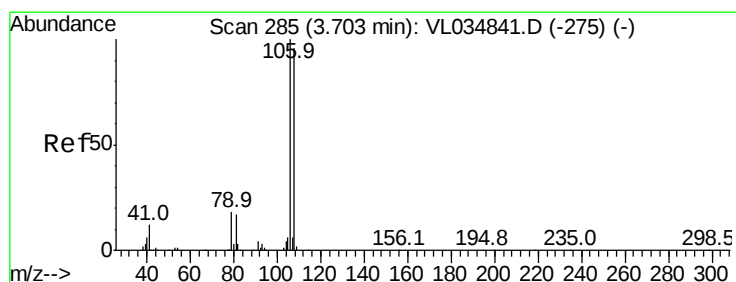
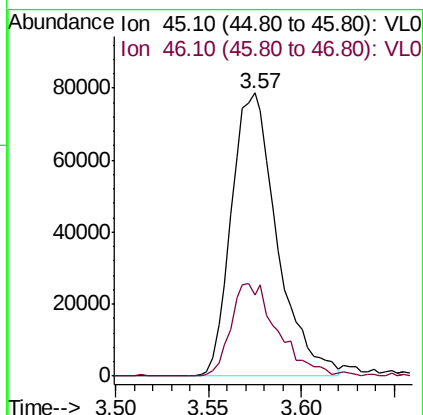
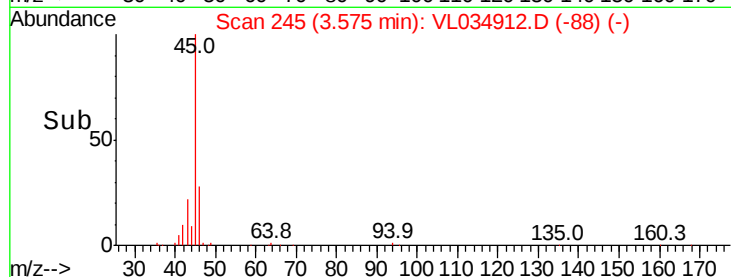
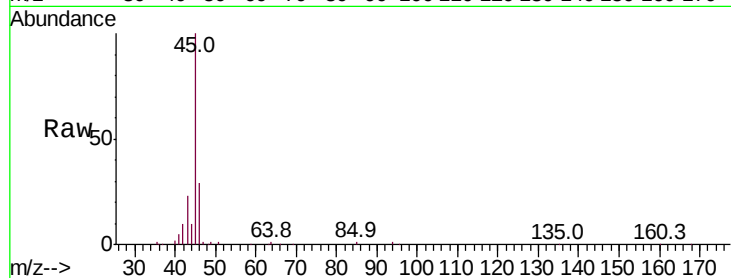
VSTDCCC010EC

Tot Ion: 45 Resp: 134524

Ion Ratio Lower Upper

45 100

46 34.1 16.0 64.0



#14

Bromoethene

Concen: 10.908 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

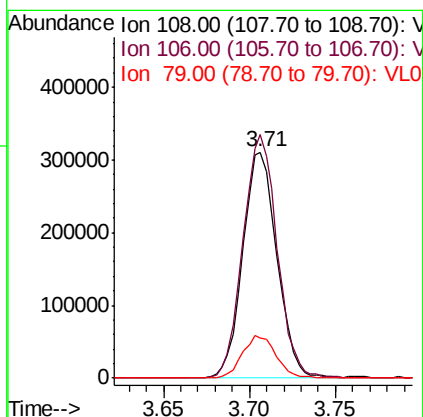
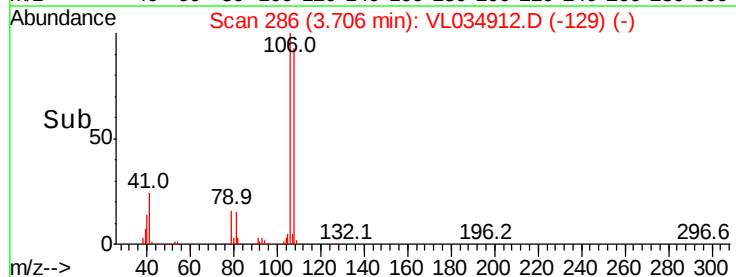
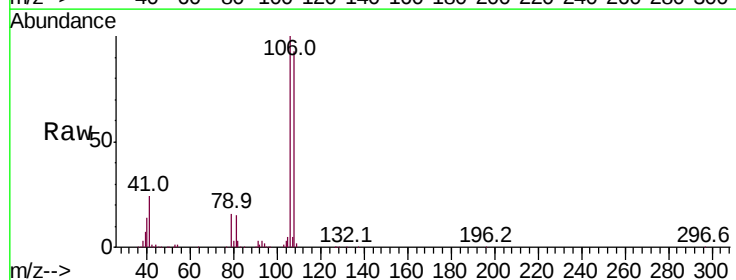
Tgt Ion: 108 Resp: 429635

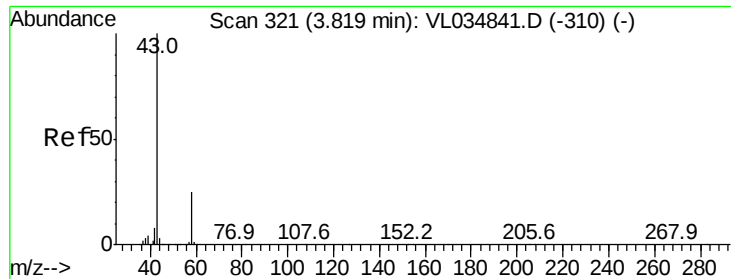
Ion Ratio Lower Upper

108 100

106 107.4 85.1 127.7

79 18.7 14.7 22.1





#15

Acetone

Concen: 11.047 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

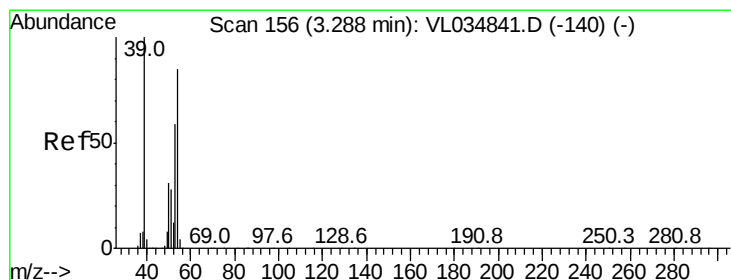
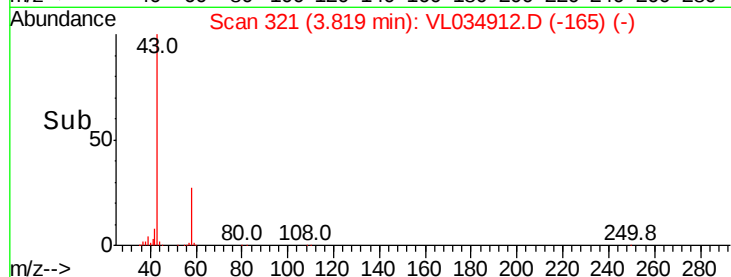
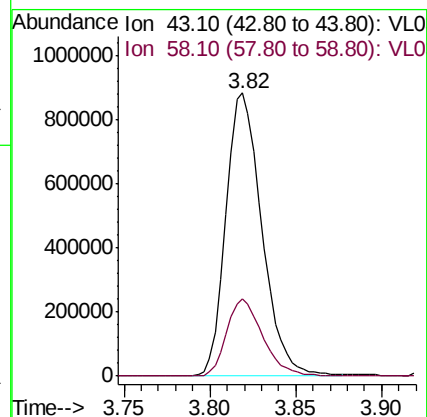
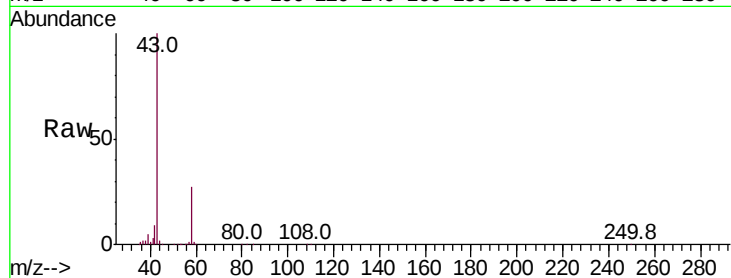
VSTDCCC010EC

Tot Ion: 43 Resp: 1280587

Ion Ratio Lower Upper

43 100

58 27.6 21.0 31.6



#16

1,3-Butadiene

Concen: 10.887 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL034912.D

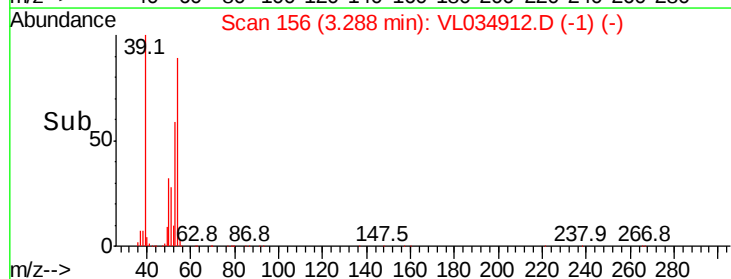
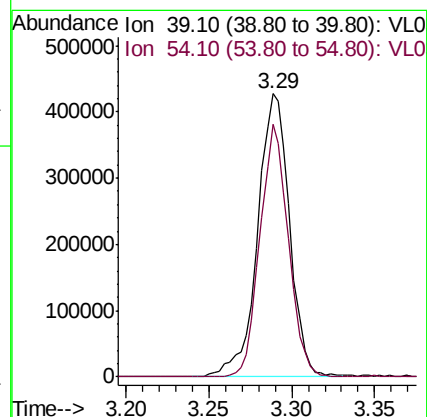
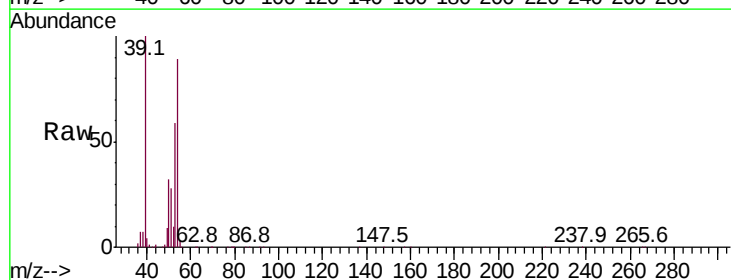
Acq: 17 Mar 2020 5:11

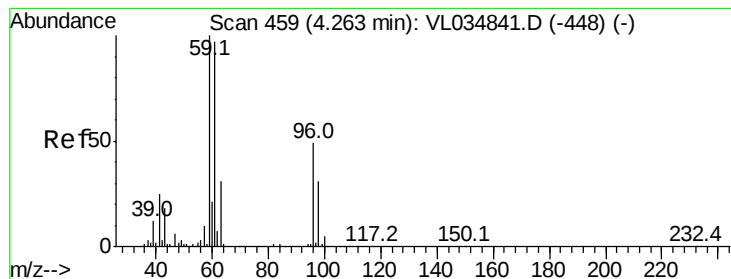
Tgt Ion: 39 Resp: 570714

Ion Ratio Lower Upper

39 100

54 79.7 65.0 97.6





#17

tert-Butyl alcohol

Concen: 8.182 ppbv

RT: 4.27 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

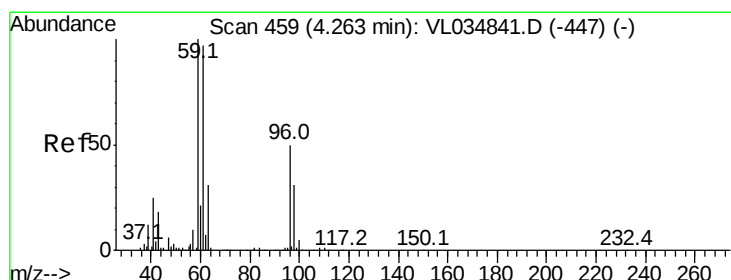
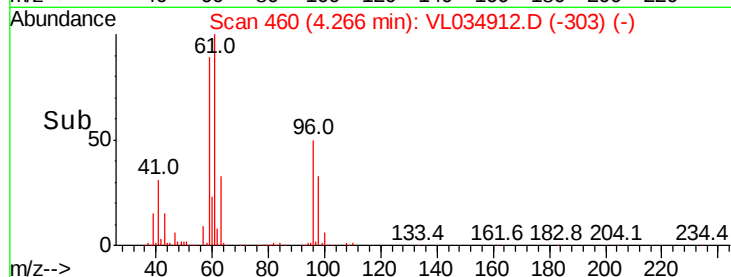
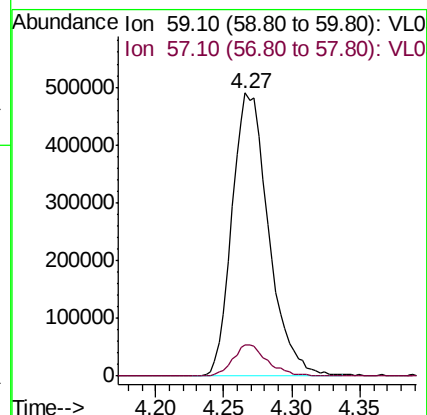
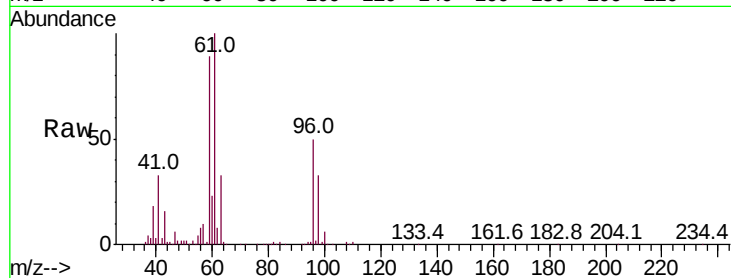
VSTDCCC010EC

Tot Ion: 59 Resp: 913841

Ion Ratio Lower Upper

59 100

57 10.7 8.3 12.5



#18

1,1-Dichloroethene

Concen: 11.136 ppbv

RT: 4.26 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

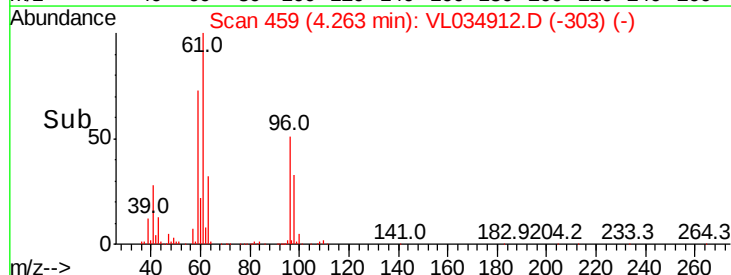
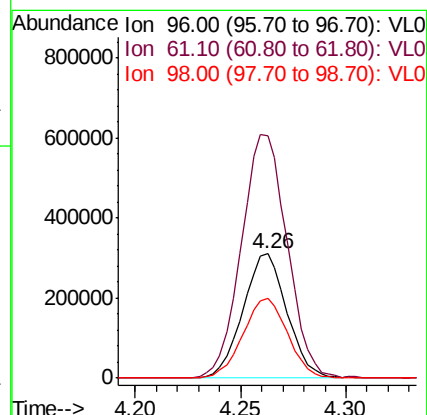
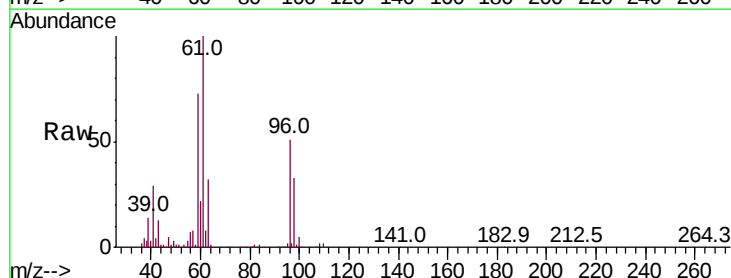
Tgt Ion: 96 Resp: 449746

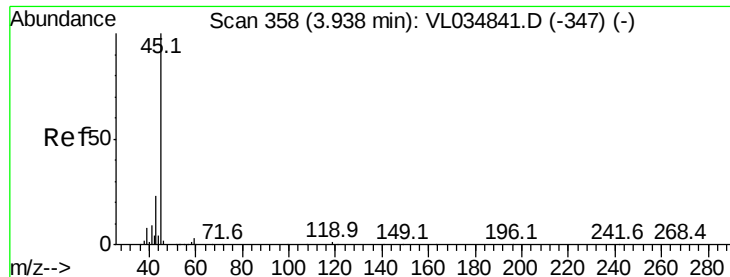
Ion Ratio Lower Upper

96 100

61 194.9 157.3 235.9

98 64.3 50.2 75.4





#19

Isopropyl Alcohol

Concen: 9.236 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

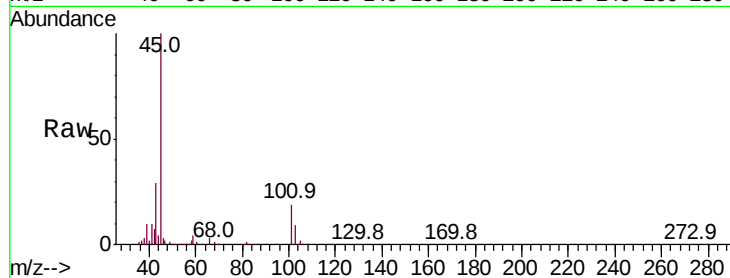
VSTDCCC010EC

Tot Ion: 45 Resp: 676092

Ion Ratio Lower Upper

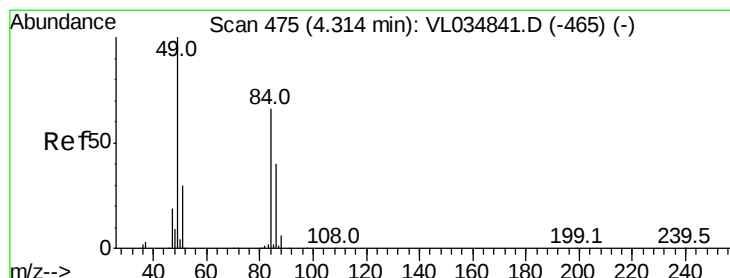
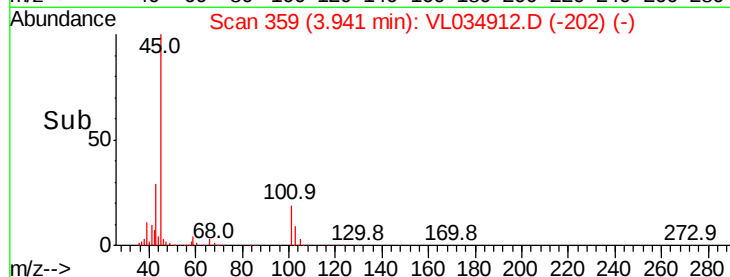
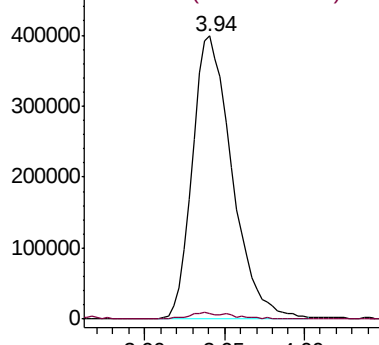
45 100

58 2.7 30.5 45.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.821 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Tgt Ion: 84 Resp: 396605

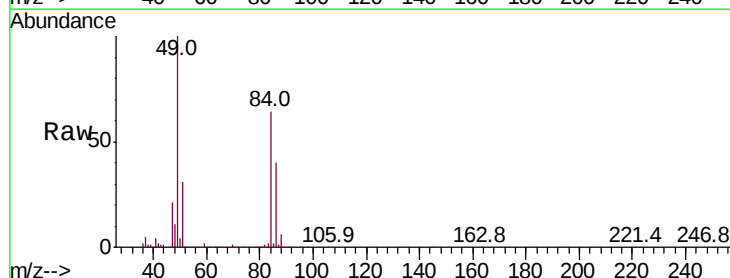
Ion Ratio Lower Upper

84 100

49 154.2 121.5 182.3

51 46.9 36.6 55.0

86 61.4 48.2 72.2

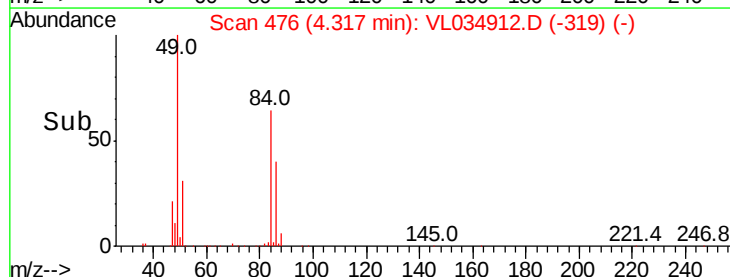
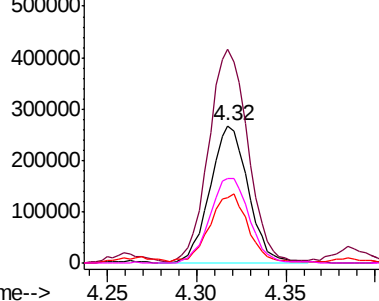


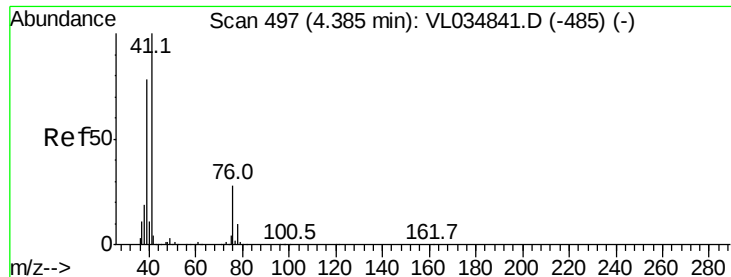
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 10.767 ppbv

RT: 4.39 min Scan# 498

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

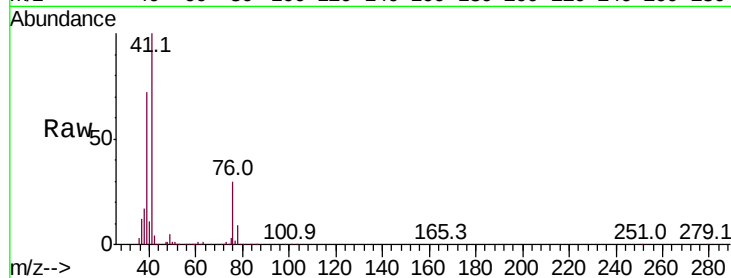
Tot Ion: 41 Resp: 801607

Ion Ratio Lower Upper

41 100

76 27.2 22.2 33.2

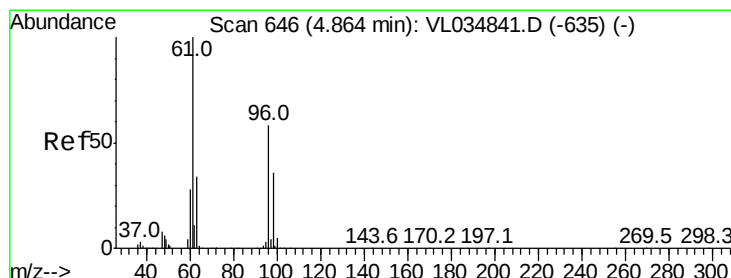
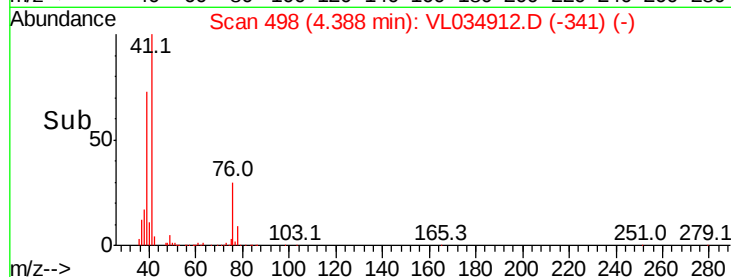
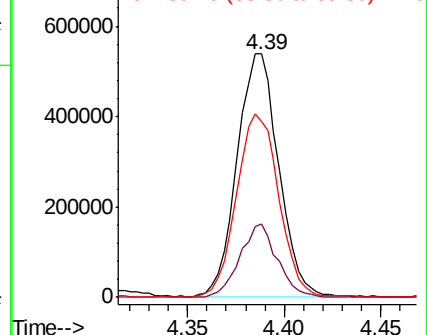
39 77.8 62.6 93.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 11.059 ppbv

RT: 4.86 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

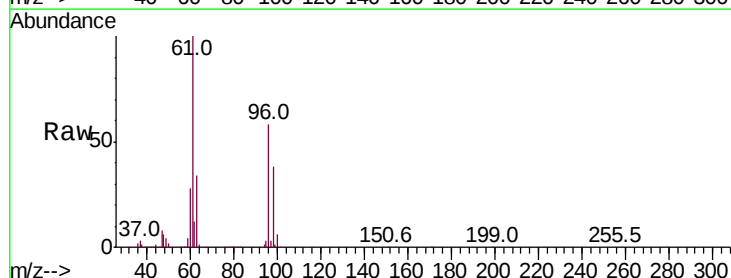
Tgt Ion: 96 Resp: 453092

Ion Ratio Lower Upper

96 100

61 173.4 139.0 208.6

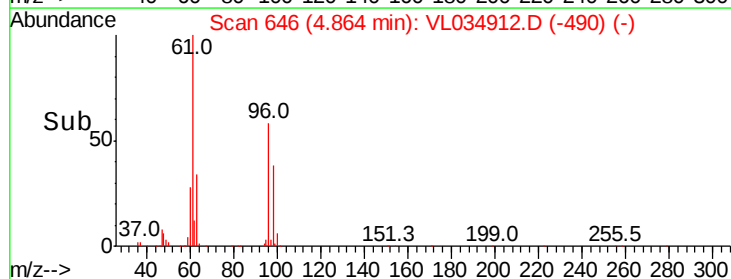
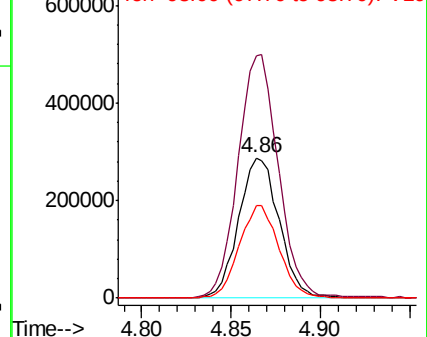
98 65.8 50.3 75.5

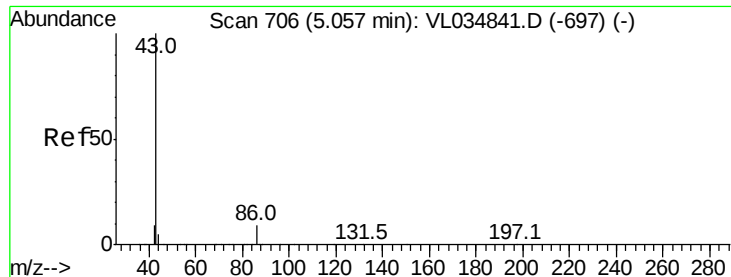


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



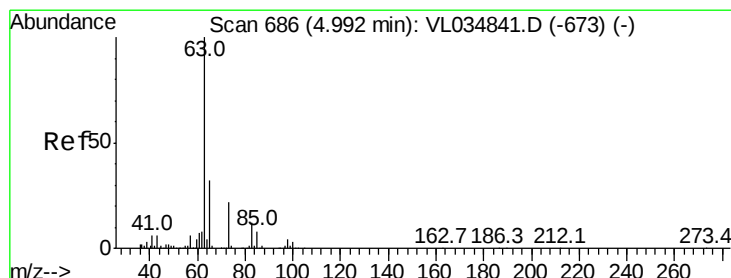
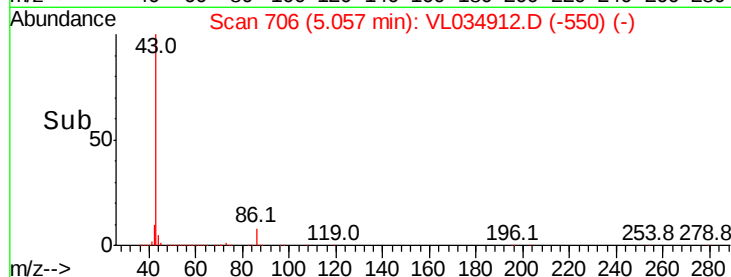
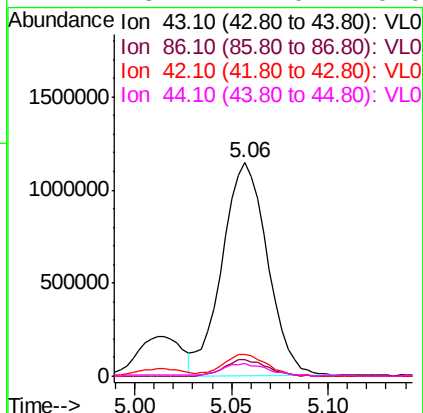
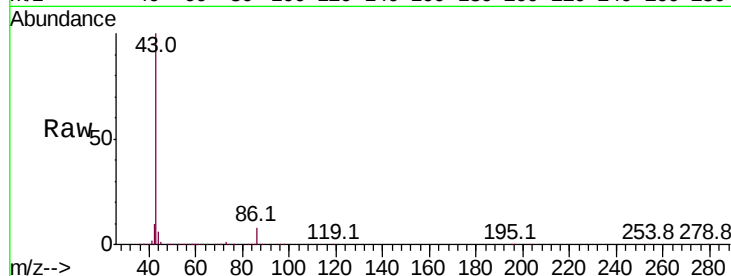


#23  
 Vinyl Acetate  
 Concen: 10.856 ppbv  
 RT: 5.06 min Scan# 706  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion: 43 Resp: 1858917

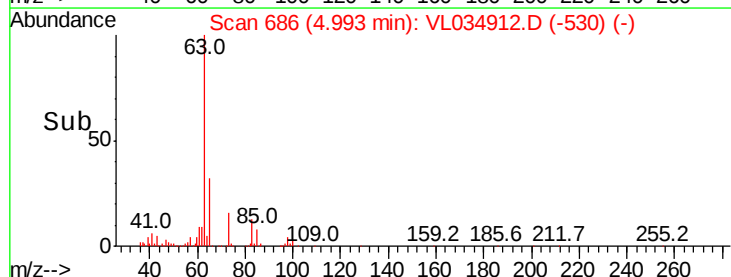
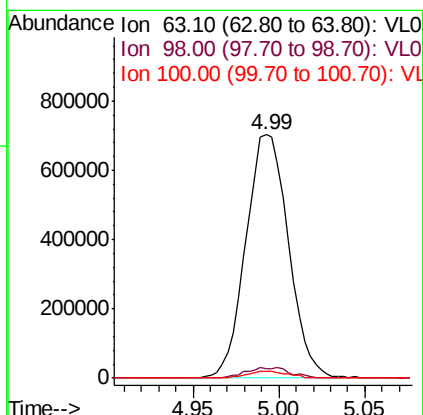
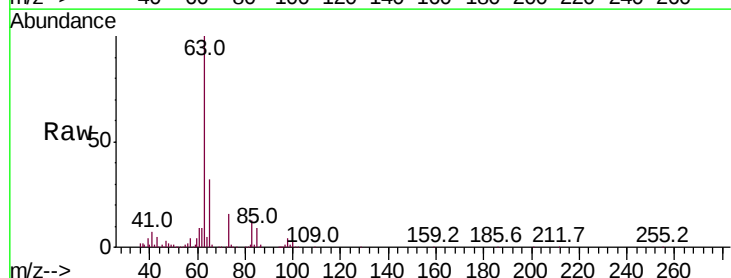
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.5   | 6.3   | 9.5   |
| 42  | 10.4  | 7.8   | 11.8  |
| 44  | 5.4   | 4.0   | 6.0   |

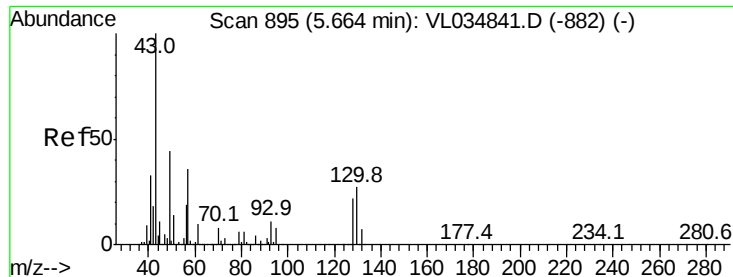


#24  
 1,1-Dichloroethane  
 Concen: 10.523 ppbv  
 RT: 4.99 min Scan# 686  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion: 63 Resp: 1207962

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.0   | 2.0   | 5.8   |
| 100 | 2.6   | 1.4   | 4.0   |



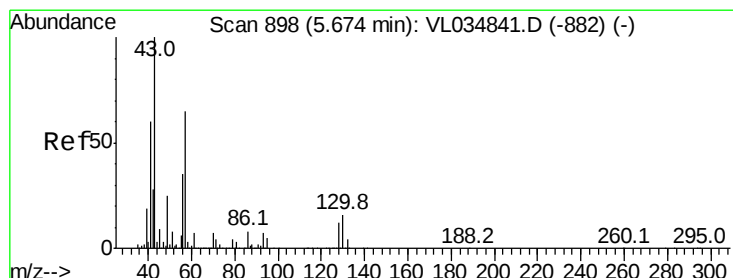
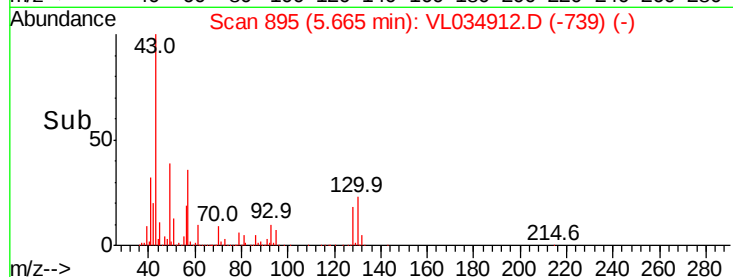
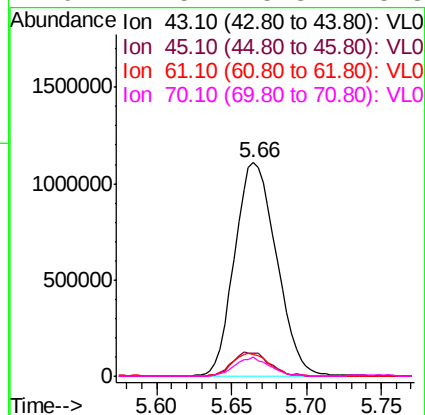
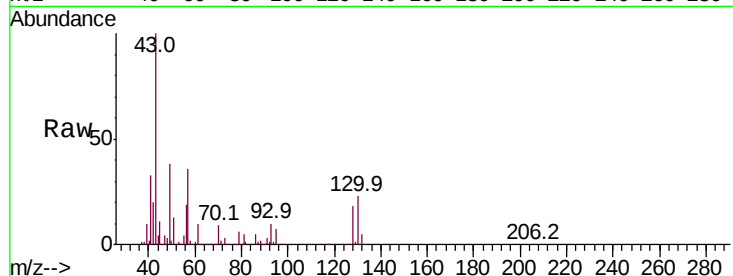


#25  
Ethyl Acetate  
Concen: 10.453 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 43 Resp: 2158791

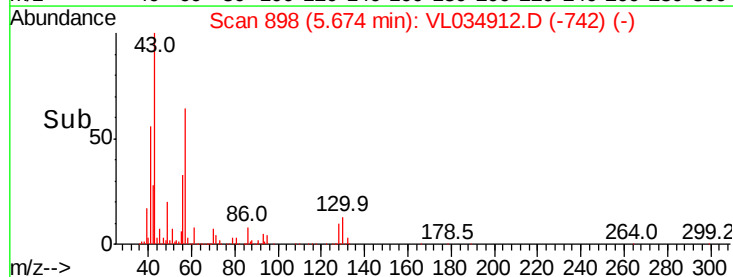
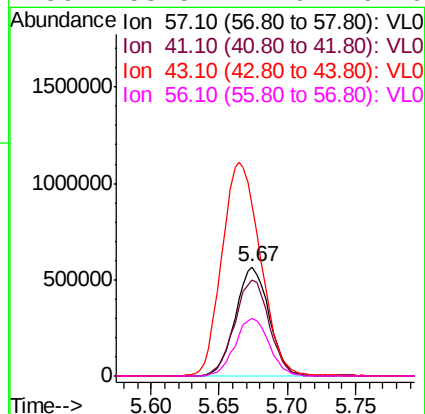
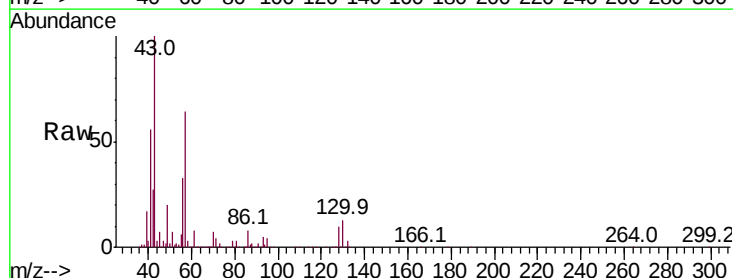
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.3  | 8.2   | 12.2  |
| 61  | 9.6   | 7.8   | 11.6  |
| 70  | 7.5   | 5.8   | 8.8   |

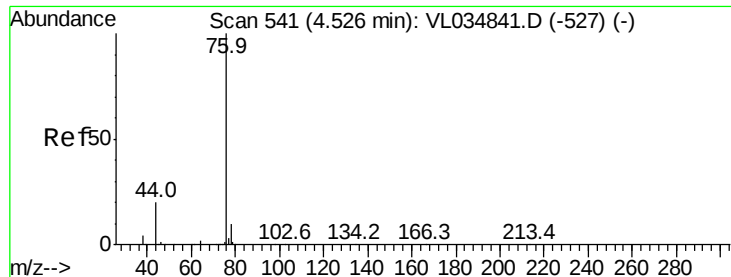


#26  
Hexane  
Concen: 10.878 ppbv  
RT: 5.67 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

Tgt Ion: 57 Resp: 967429

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.5  | 72.6  | 109.0 |
| 43  | 225.3 | 183.8 | 275.6 |
| 56  | 53.5  | 41.9  | 62.9  |





#27

Carbon Disulfide

Concen: 11.416 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.00 min

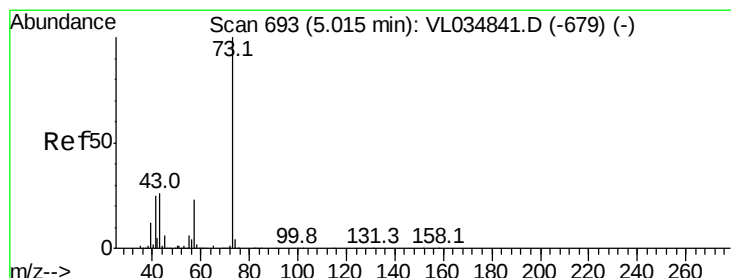
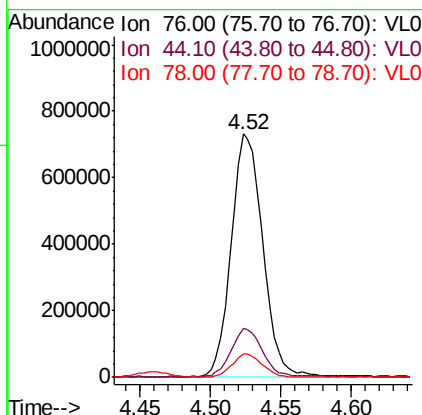
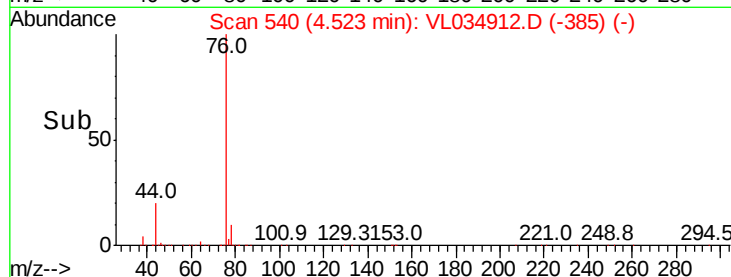
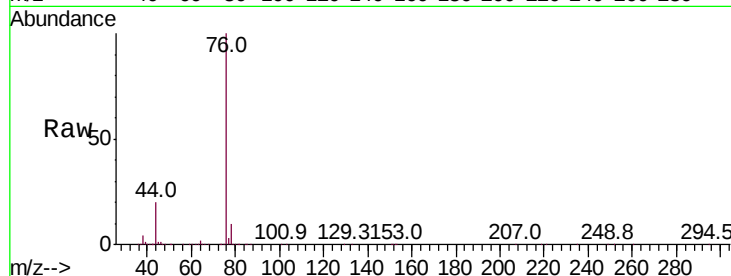
Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tot Ion: 76 Resp: 1152076

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 19.5  | 16.2  | 24.2  |
| 78  | 9.1   | 7.8   | 11.6  |



#28

Methyl tert-Butyl Ether

Concen: 9.731 ppbv

RT: 5.02 min Scan# 693

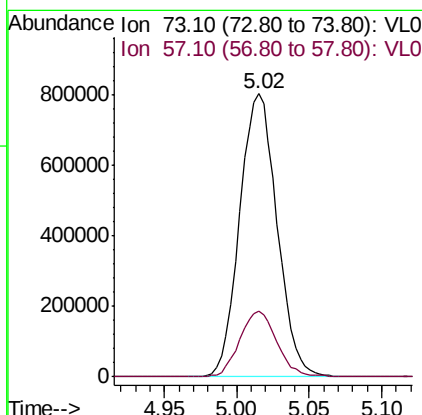
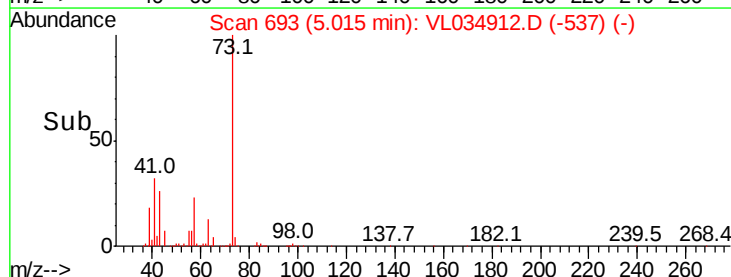
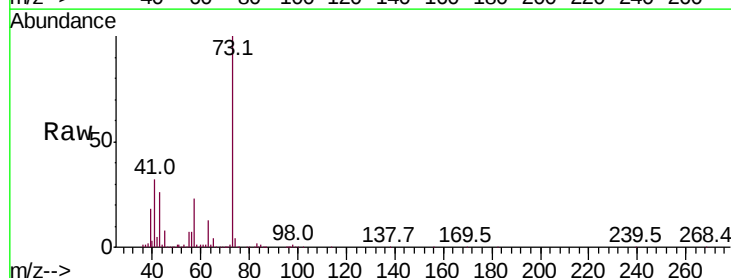
Delta R.T. 0.00 min

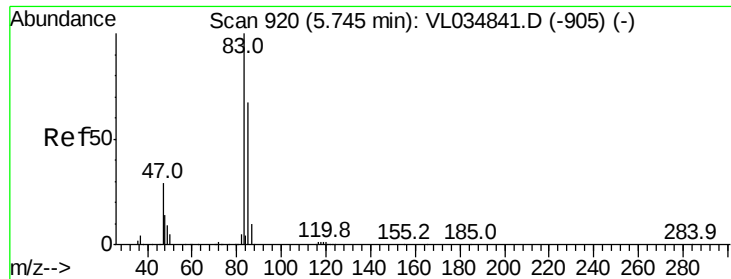
Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Tgt Ion: 73 Resp: 1439943

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 23.2  | 18.3  | 27.5  |





#29

Chloroform

Concen: 10.889 ppbv

RT: 5.74 min Scan# 920

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

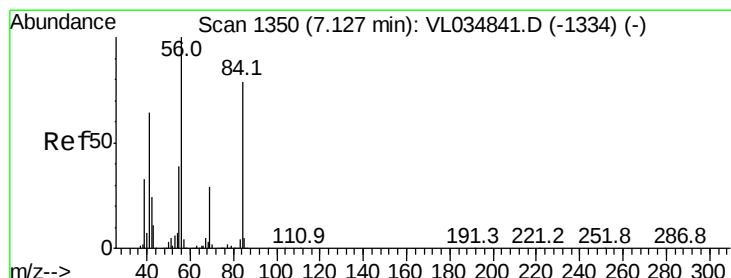
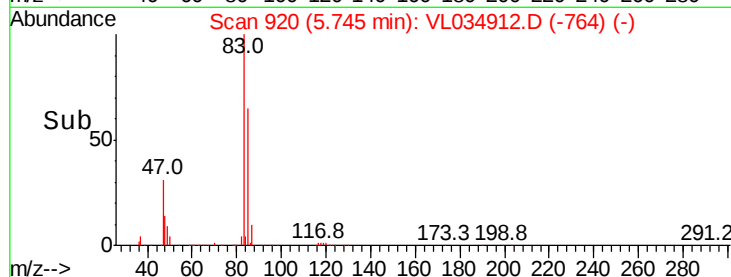
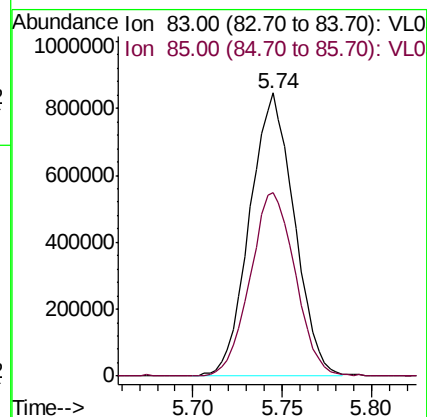
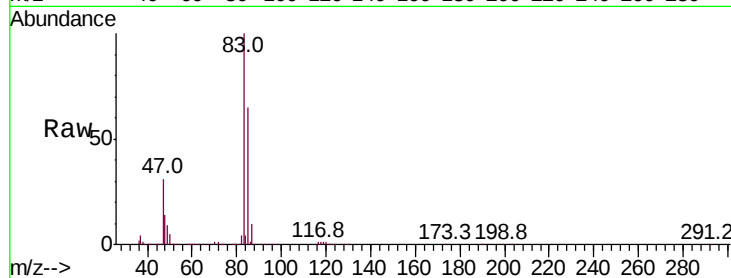
VSTDCCC010EC

Tot Ion: 83 Resp: 1477575

Ion Ratio Lower Upper

83 100

85 64.6 53.8 80.6



#30

Cyclohexane

Concen: 10.807 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

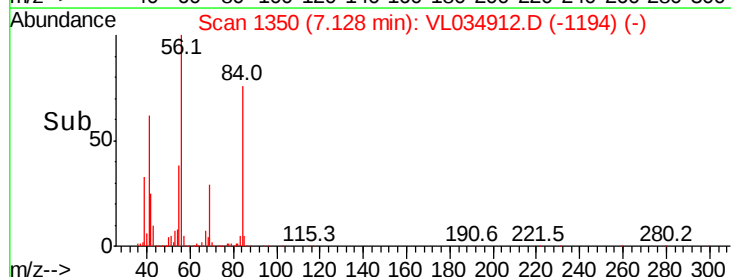
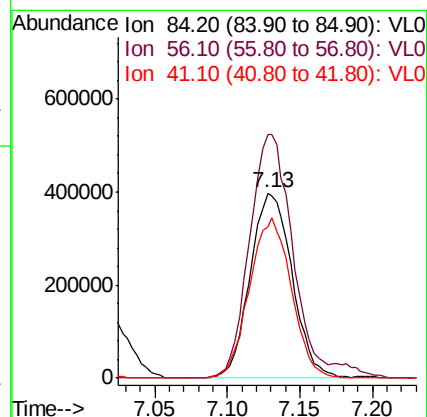
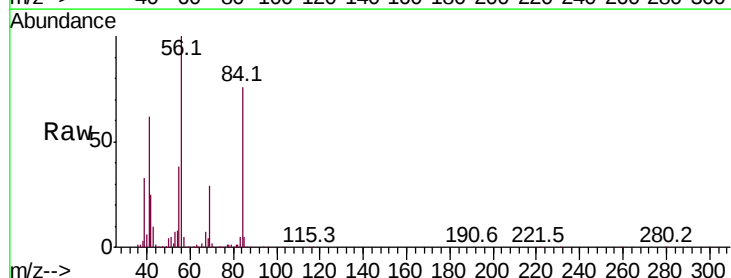
Tgt Ion: 84 Resp: 801886

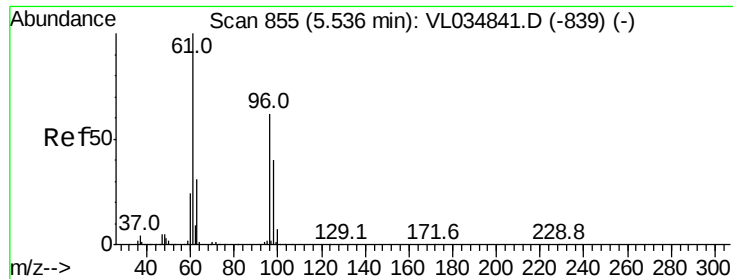
Ion Ratio Lower Upper

84 100

56 138.7 110.5 165.7

41 86.3 68.2 102.4





#31

cis-1,2-Dichloroethene

Concen: 10.633 ppbv

RT: 5.54 min Scan# 855

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

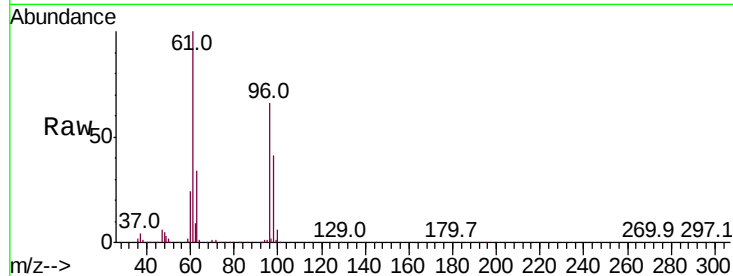
Tot Ion: 61 Resp: 967104

Ion Ratio Lower Upper

61 100

96 65.7 49.8 74.8

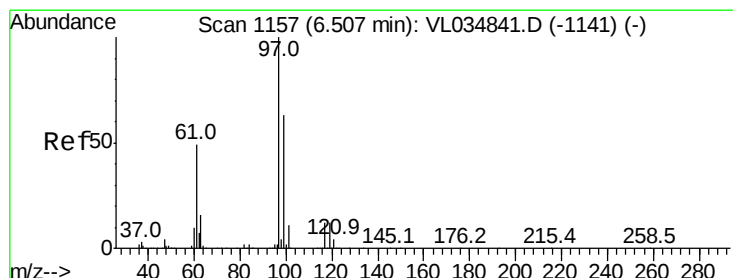
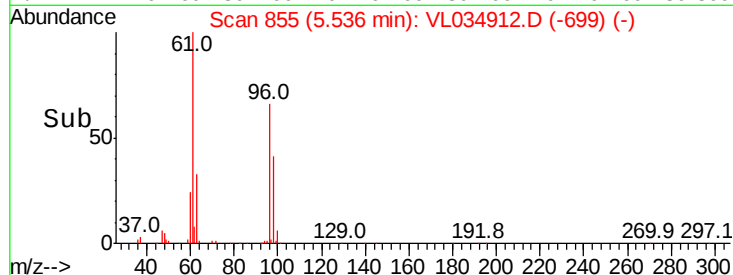
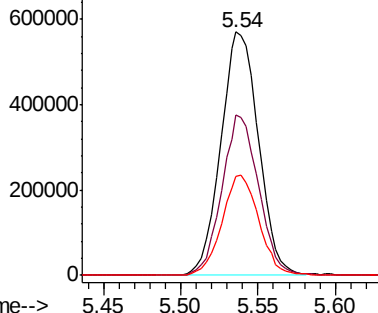
98 40.7 32.2 48.4



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.714 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

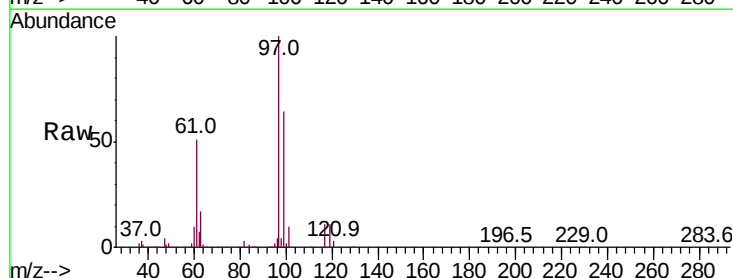
Tgt Ion: 97 Resp: 1416519

Ion Ratio Lower Upper

97 100

99 64.8 51.1 76.7

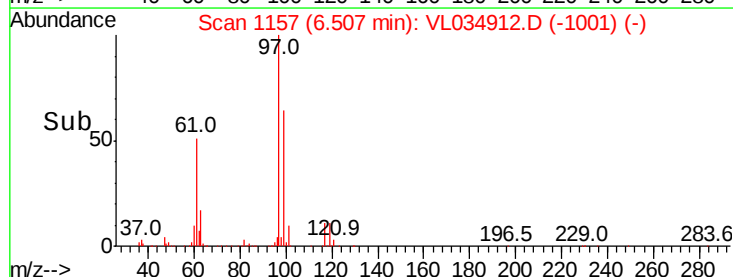
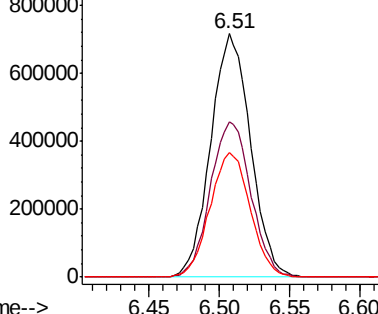
61 51.9 39.7 59.5

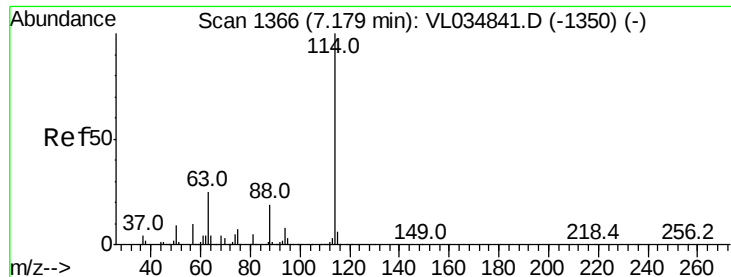


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

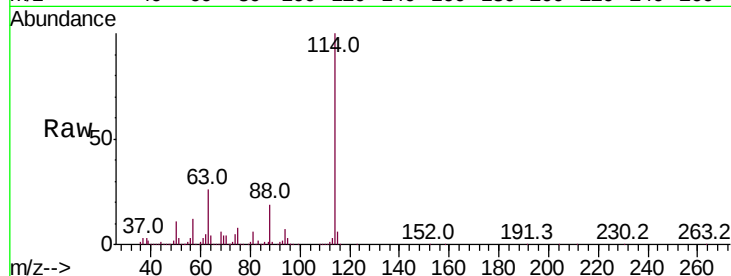




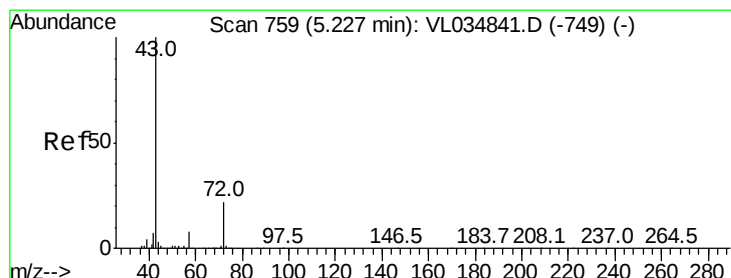
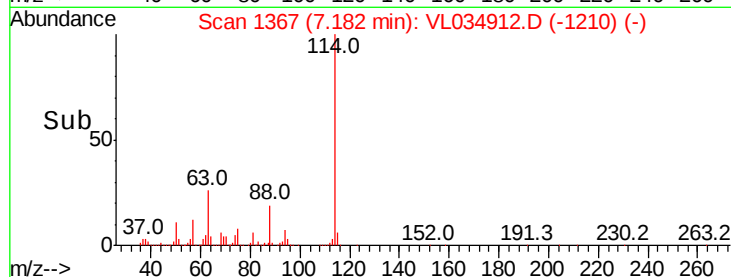
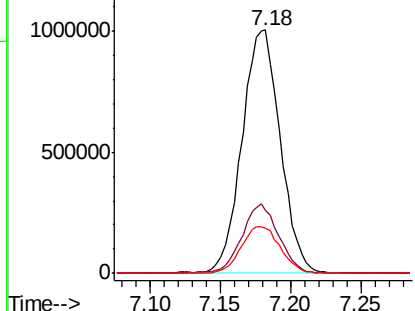
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:114 Resp: 1910241  
 Ion Ratio Lower Upper  
 114 100  
 63 28.0 20.6 31.0  
 88 19.6 15.0 22.6

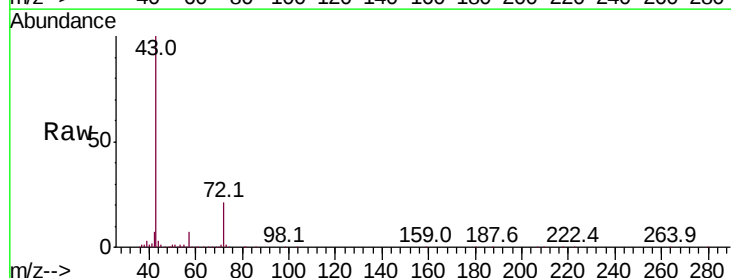


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

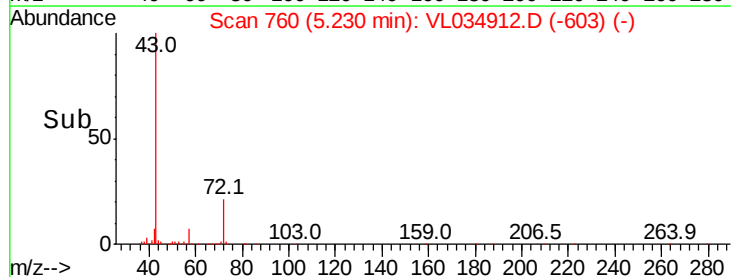
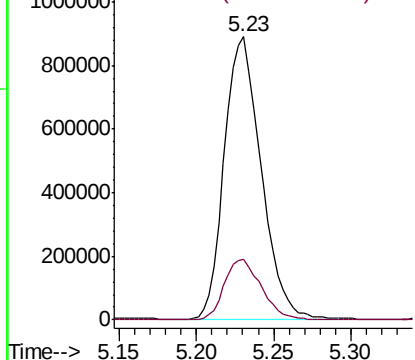


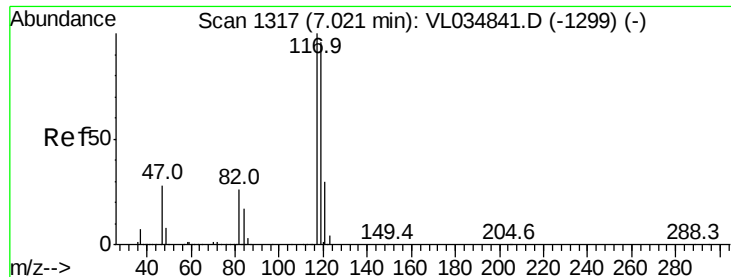
#34  
 2-Butanone  
 Concen: 11.560 ppbv  
 RT: 5.23 min Scan# 760  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion: 43 Resp: 1467504  
 Ion Ratio Lower Upper  
 43 100  
 72 21.8 17.6 26.4



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





#35

Carbon Tetrachloride

Concen: 12.147 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

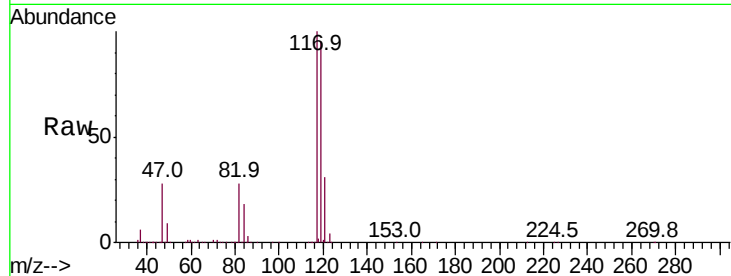
Tot Ion:117 Resp: 1443184

Ion Ratio Lower Upper

117 100

119 95.1 77.0 115.4

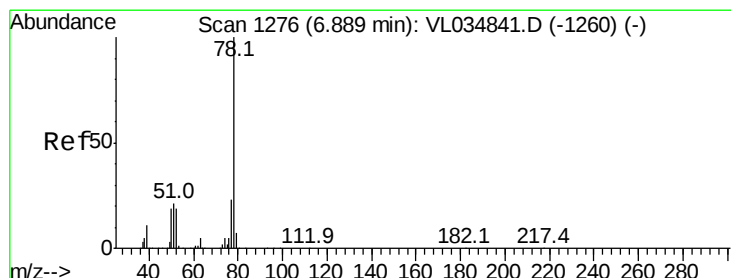
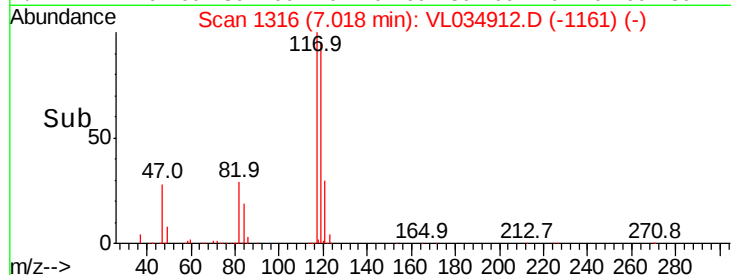
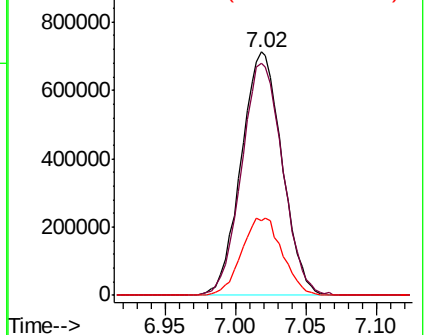
121 30.7 24.0 36.0



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: 11.337 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

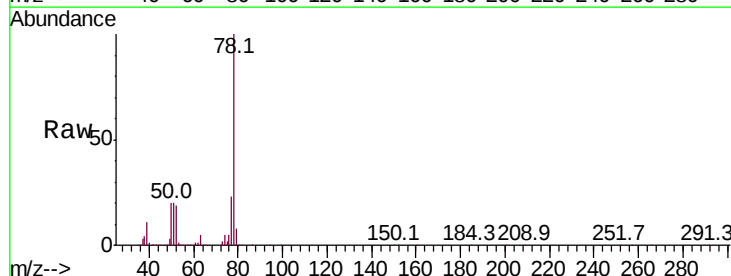
Tgt Ion: 78 Resp: 1930402

Ion Ratio Lower Upper

78 100

77 22.5 18.2 27.2

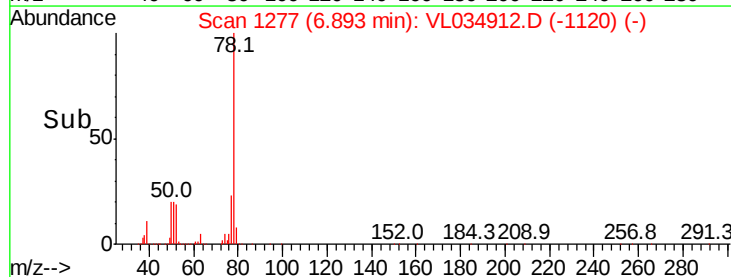
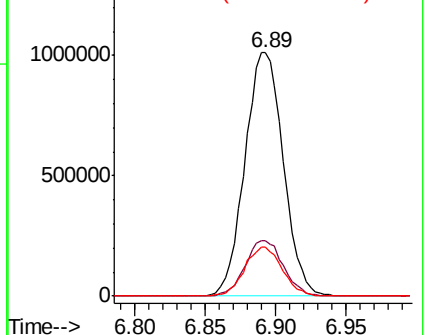
50 20.3 15.2 22.8

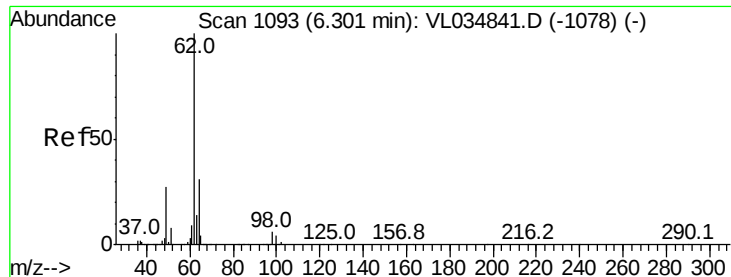


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 11.936 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

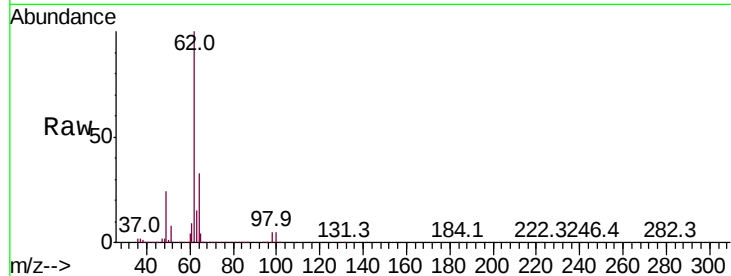
VSTDCCC010EC

Tot Ion: 62 Resp: 1145973

Ion Ratio Lower Upper

62 100

98 5.8 5.2 7.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.30

600000

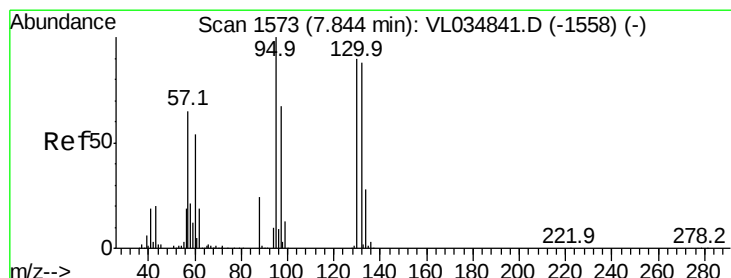
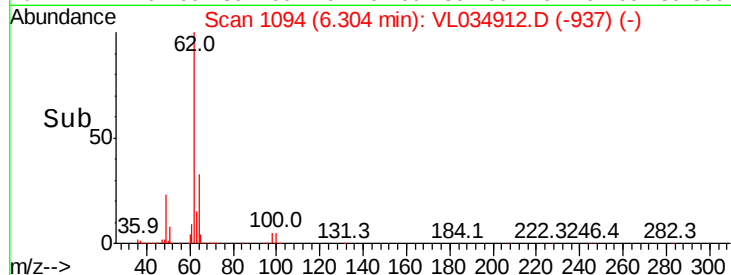
400000

200000

0

6.25 6.30 6.35

Time-->



#38

Trichloroethene

Concen: 11.205 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Tgt Ion:130 Resp: 724613

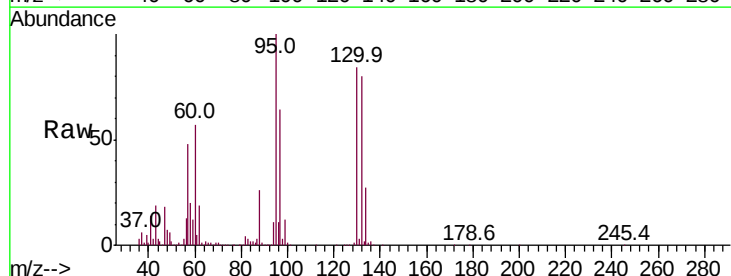
Ion Ratio Lower Upper

130 100

95 119.3 88.5 132.7

132 95.5 78.0 117.0

97 75.8 59.3 88.9



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

600000

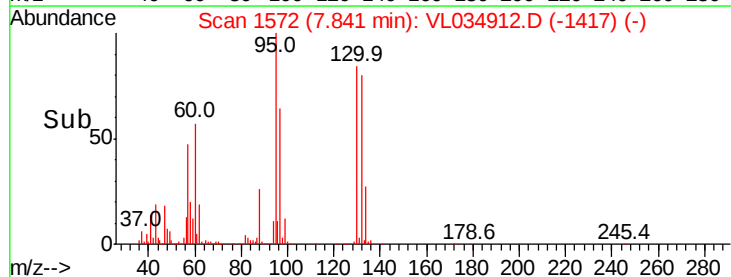
400000

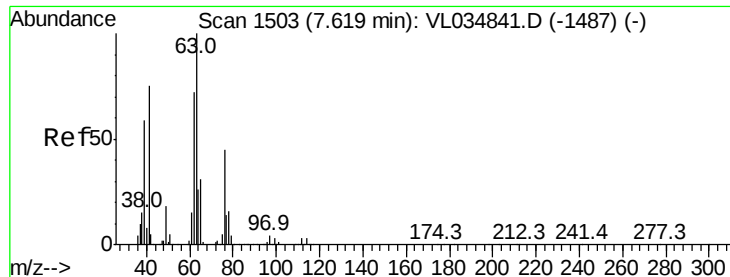
200000

0

7.75 7.80 7.85 7.90

Time-->





#39

1,2-Dichloropropane

Concen: 11.116 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

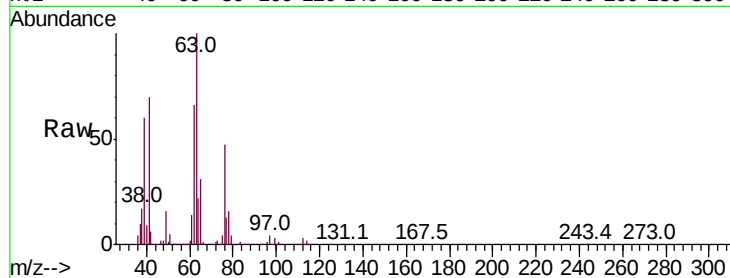
Tot Ion: 63 Resp: 749876

Ion Ratio Lower Upper

63 100

41 70.2 59.8 89.8

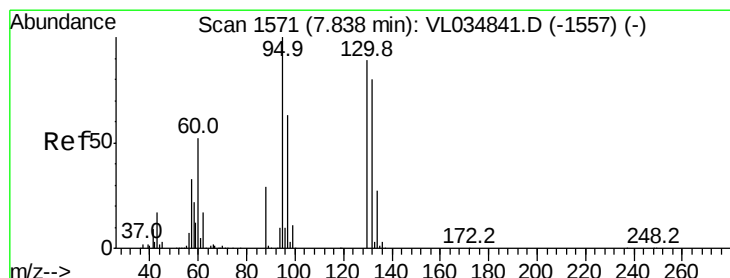
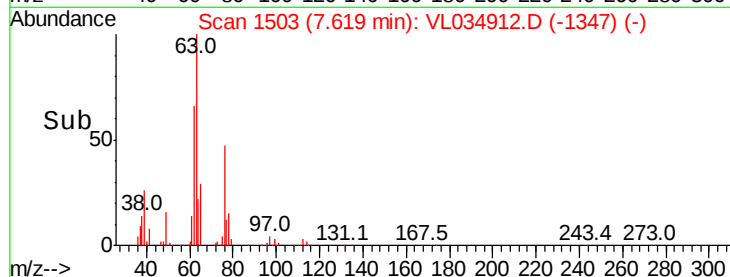
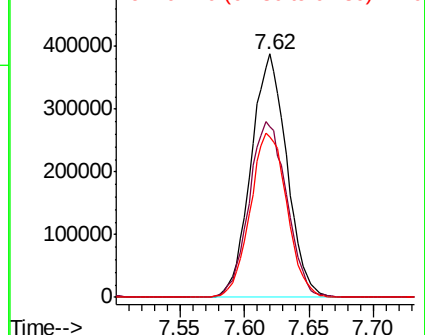
62 66.1 57.6 86.4



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: 10.612 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Tgt Ion: 88 Resp: 270371

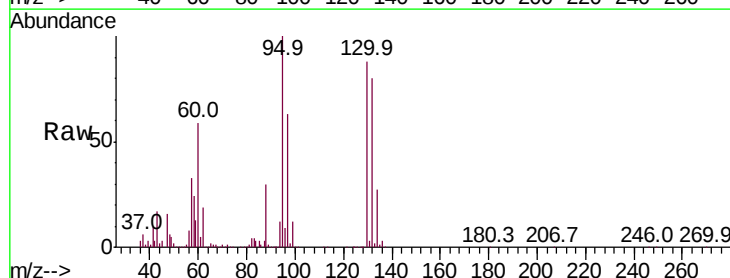
Ion Ratio Lower Upper

88 100

58 137.3 103.9 155.9

43 291.4 0.0 0.0#

57 1246.8 0.0 0.0#

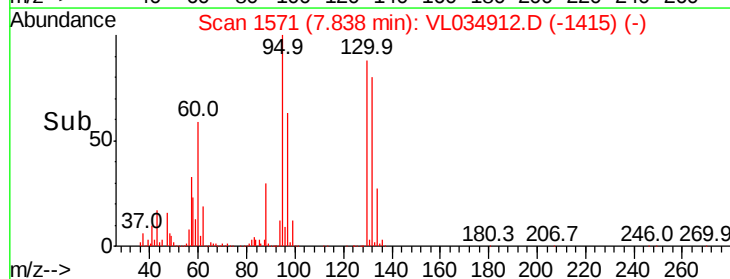
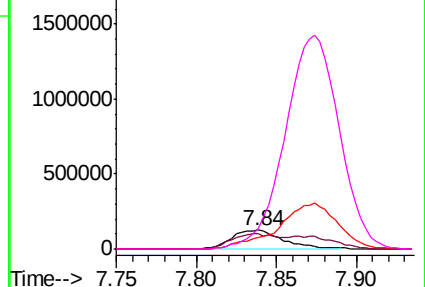


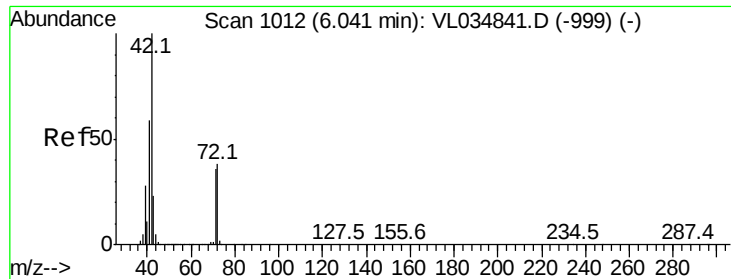
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

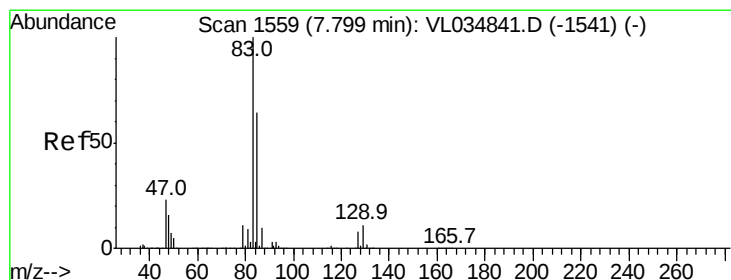
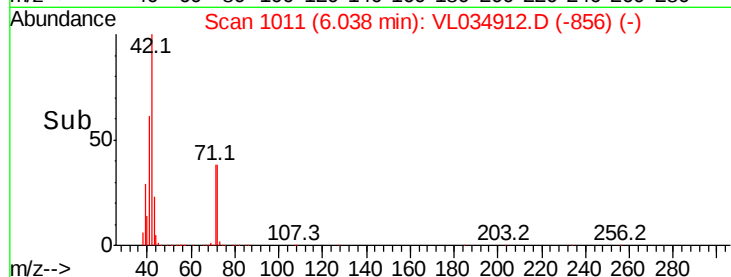
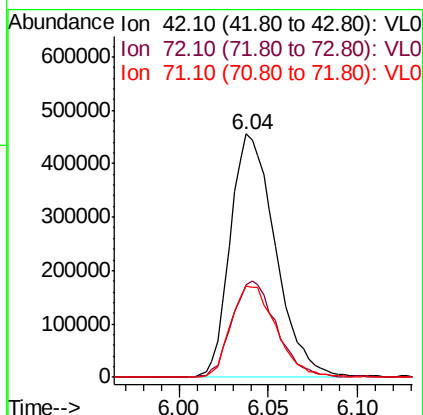
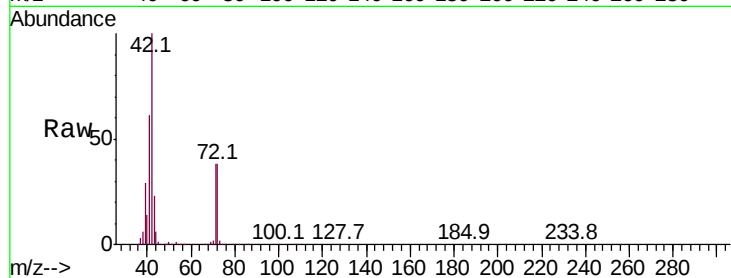




#41  
Tetrahydrofuran  
Concen: 11.596 ppbv  
RT: 6.04 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

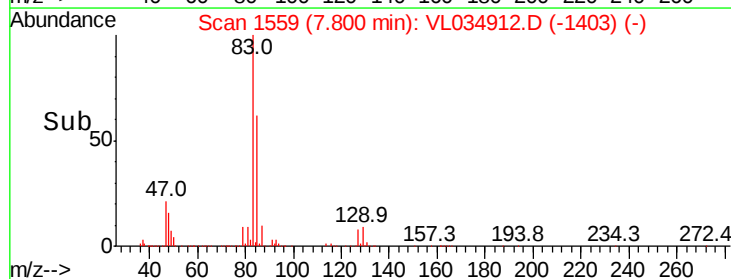
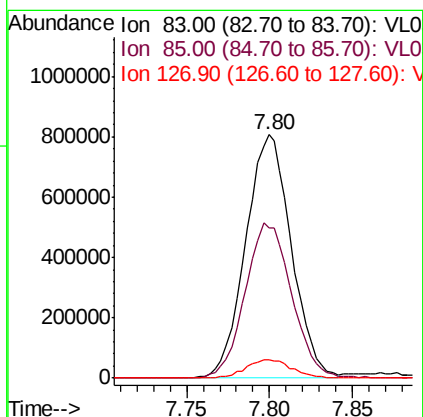
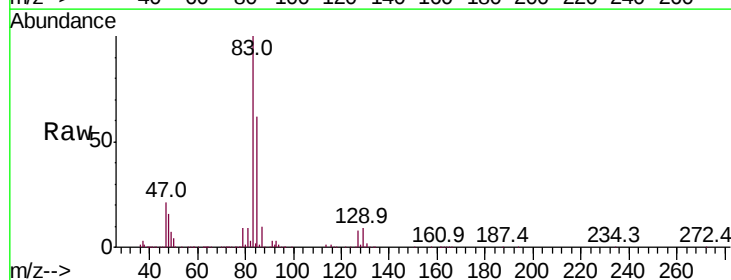
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

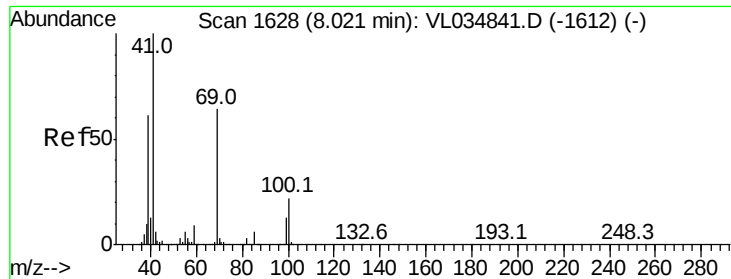
Tot Ion: 42 Resp: 796513  
Ion Ratio Lower Upper  
42 100  
72 39.7 30.8 46.2  
71 38.3 30.1 45.1



#42  
Bromodichloromethane  
Concen: 11.826 ppbv  
RT: 7.80 min Scan# 1559  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

Tgt Ion: 83 Resp: 1547405  
Ion Ratio Lower Upper  
83 100  
85 61.6 51.4 77.2  
127 7.7 6.2 9.4

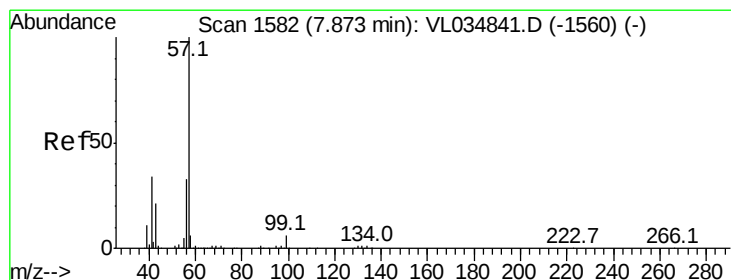
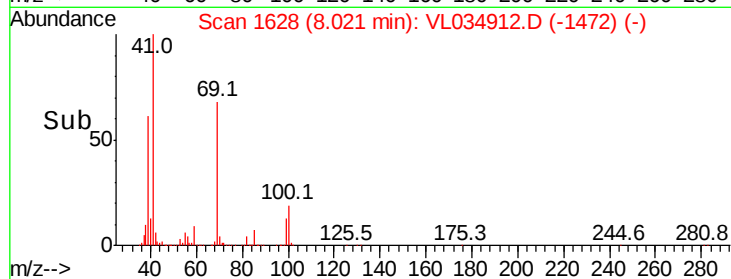
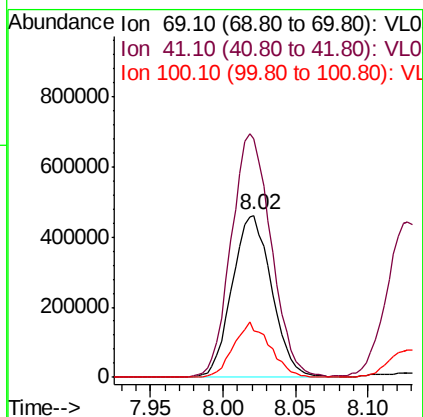
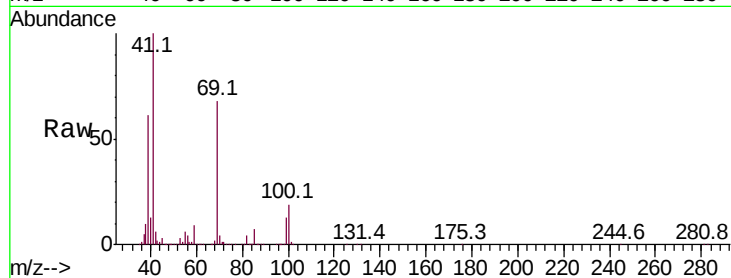




#43  
Methvl Methacrilate  
Concen: 12.198 ppbv  
RT: 8.02 min Scan# 1628  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

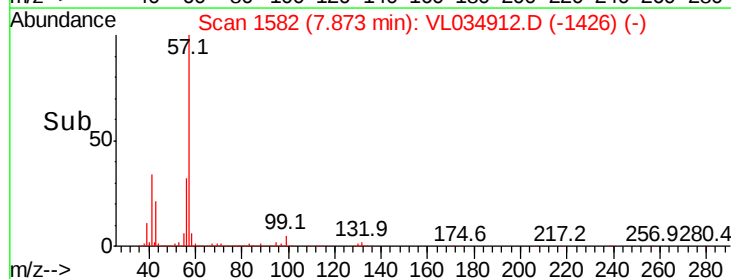
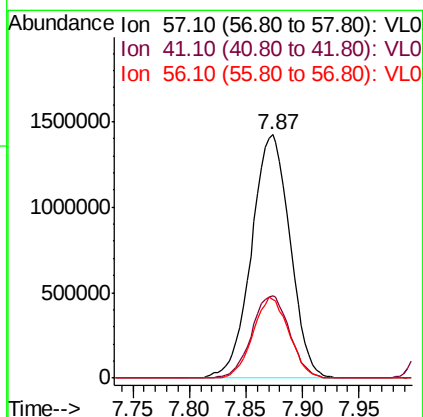
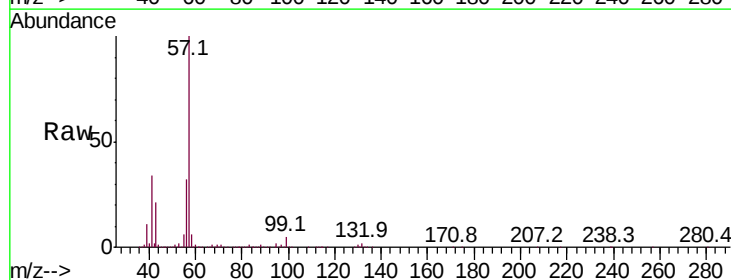
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

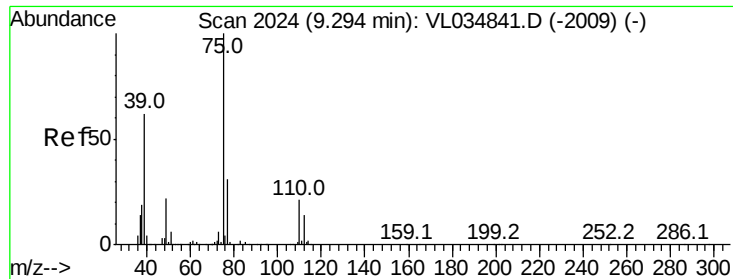
Tot Ion: 69 Resp: 874983  
Ion Ratio Lower Upper  
69 100  
41 152.0 123.2 184.8  
100 31.2 26.9 40.3



#44  
2,2,4-Trimethylpentane  
Concen: 11.698 ppbv  
RT: 7.87 min Scan# 1582  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

Tgt Ion: 57 Resp: 3365811  
Ion Ratio Lower Upper  
57 100  
41 33.5 26.2 39.4  
56 31.4 25.0 37.4

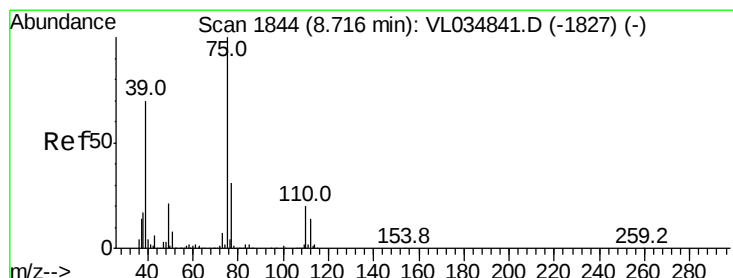
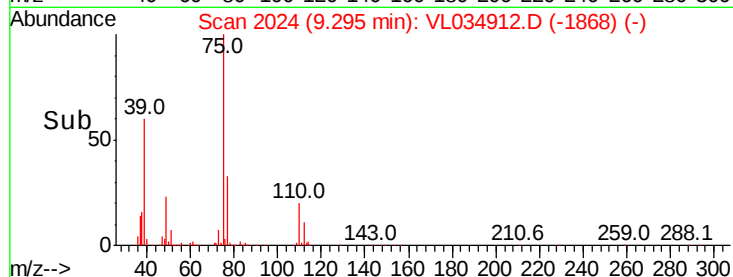
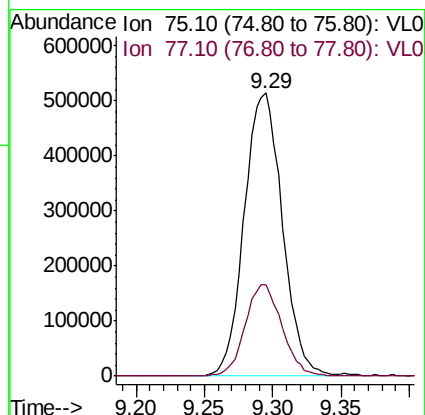
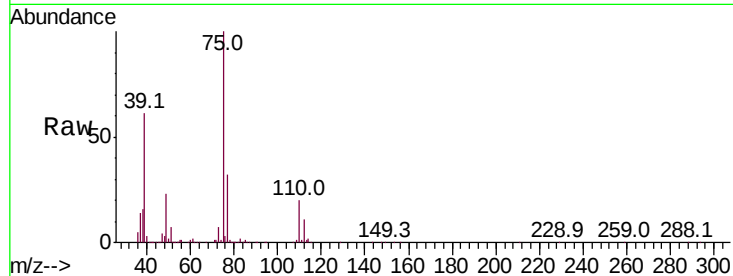




#45  
 t-1,3-Dichloropropene  
 Concen: 11.833 ppbv  
 RT: 9.29 min Scan# 2024  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

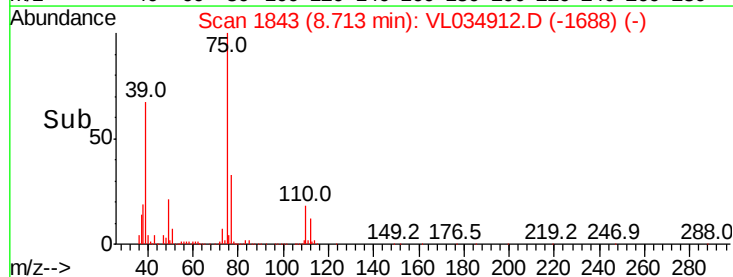
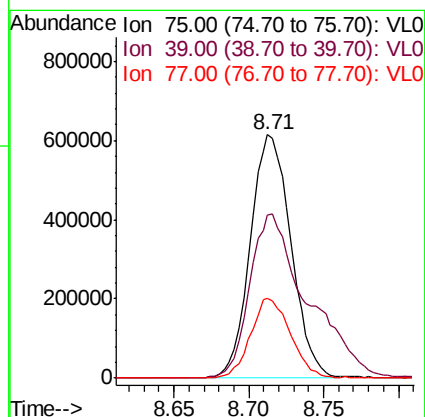
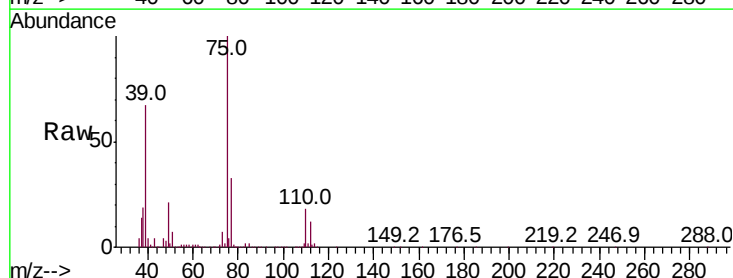
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

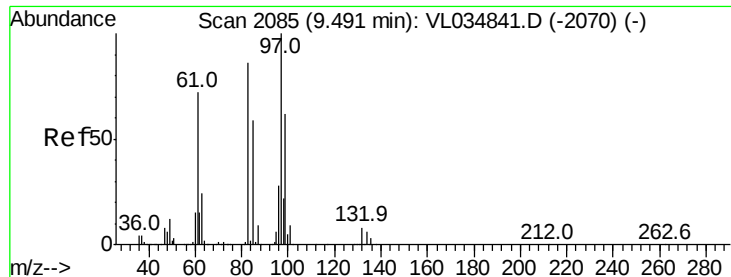
Tot Ion: 75 Resp: 997241  
 Ion Ratio Lower Upper  
 75 100  
 77 32.4 24.6 37.0



#46  
 cis-1,3-Dichloropropene  
 Concen: 11.626 ppbv  
 RT: 8.71 min Scan# 1843  
 Delta R.T. -0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion: 75 Resp: 1164290  
 Ion Ratio Lower Upper  
 75 100  
 39 66.7 55.7 83.5  
 77 32.7 24.7 37.1

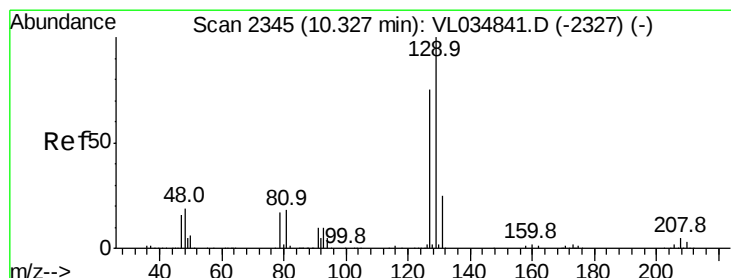
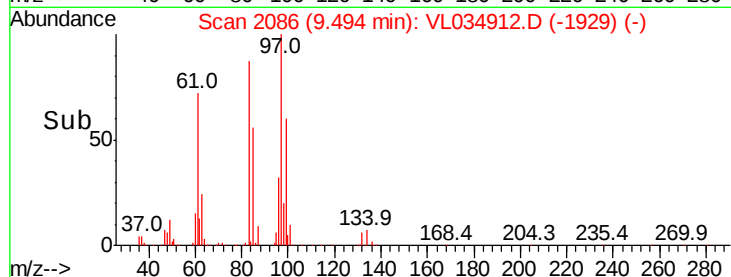
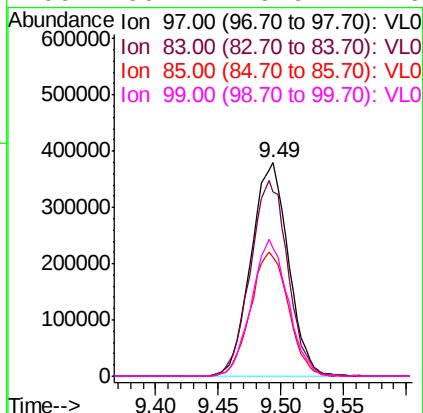
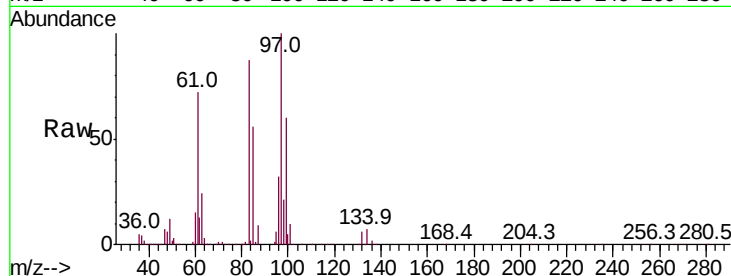




#47  
 1,1,2-Trichloroethane  
 Concen: 11.387 ppbv  
 RT: 9.49 min Scan# 2086  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

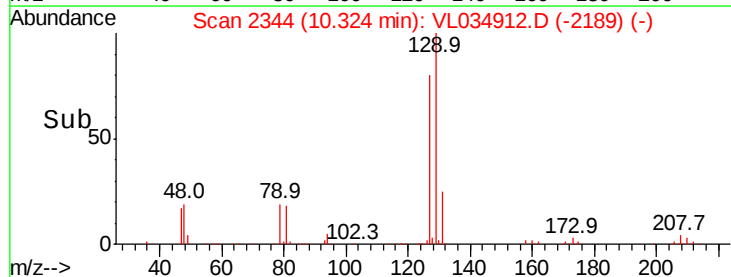
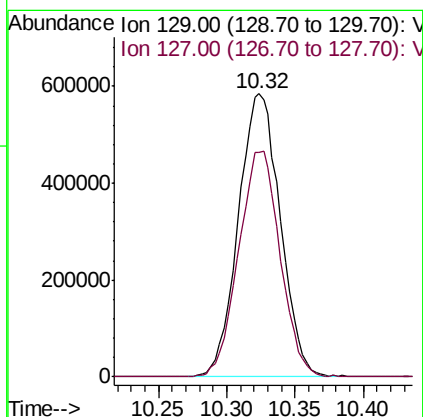
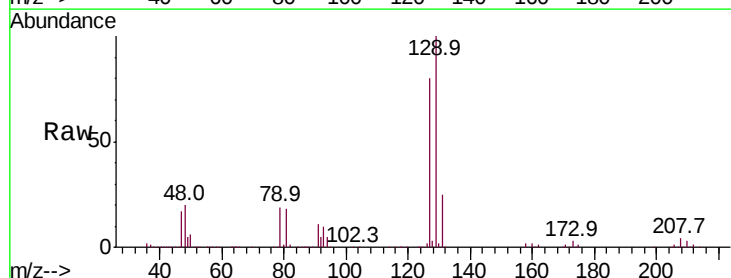
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

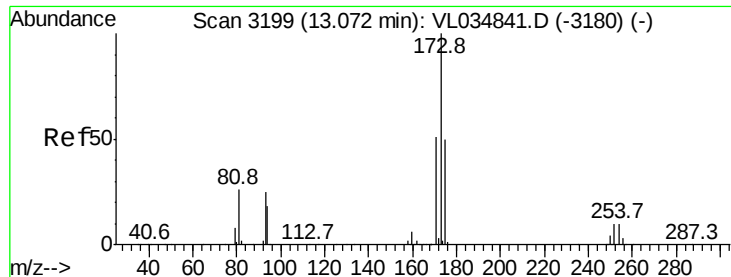
Tot Ion: 97 Resp: 788359  
 Ion Ratio Lower Upper  
 97 100  
 83 86.6 68.6 102.8  
 85 55.7 46.9 70.3  
 99 60.2 49.9 74.9



#48  
 Dibromochloromethane  
 Concen: 11.124 ppbv  
 RT: 10.32 min Scan# 2344  
 Delta R.T. -0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion: 129 Resp: 1247228  
 Ion Ratio Lower Upper  
 129 100  
 127 79.0 39.6 118.7





#49

Bromoform

Concen: 10.870 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

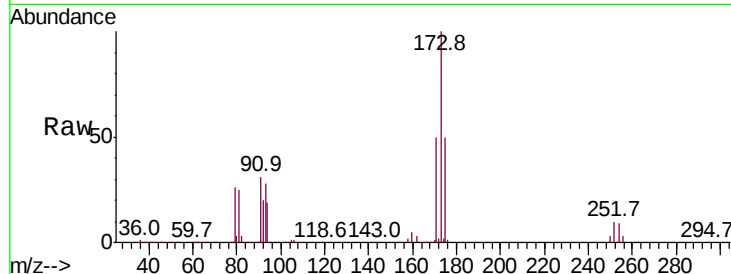
Tot Ion:173 Resp: 1086605

Ion Ratio Lower Upper

173 100

175 49.2 39.6 59.4

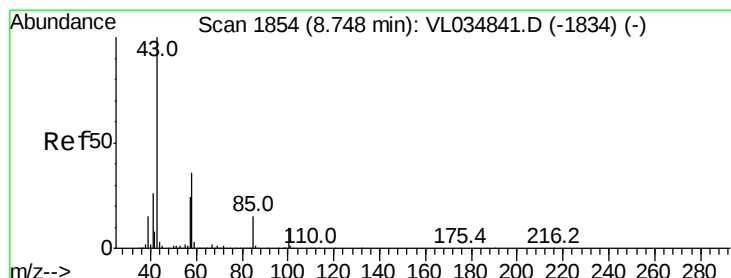
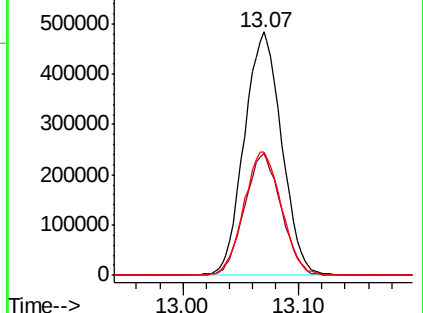
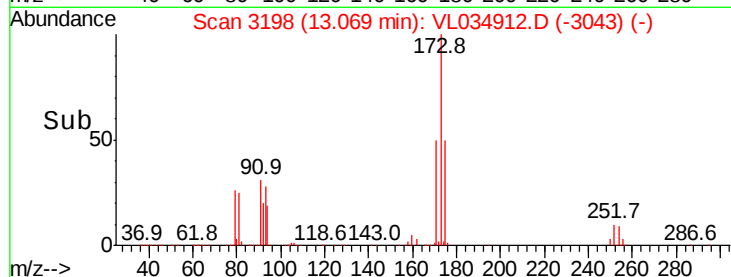
171 51.3 41.0 61.6



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: 11.924 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL034912.D

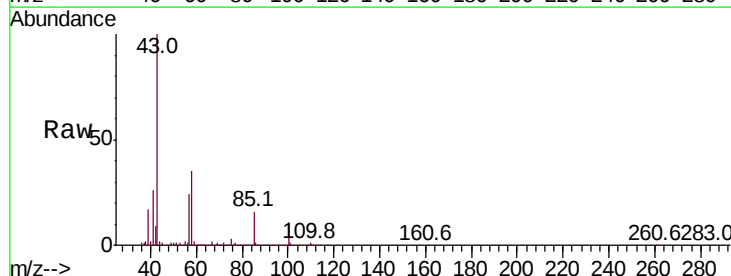
Acq: 17 Mar 2020 5:11

Tgt Ion: 43 Resp: 2178920

Ion Ratio Lower Upper

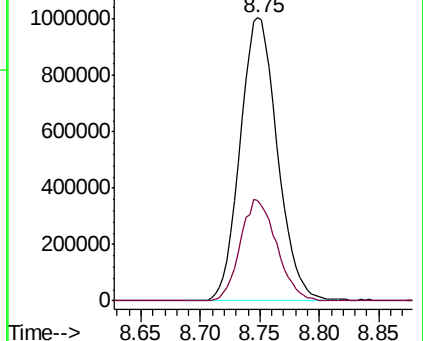
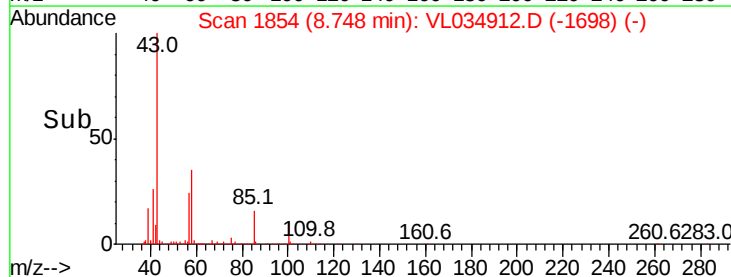
43 100

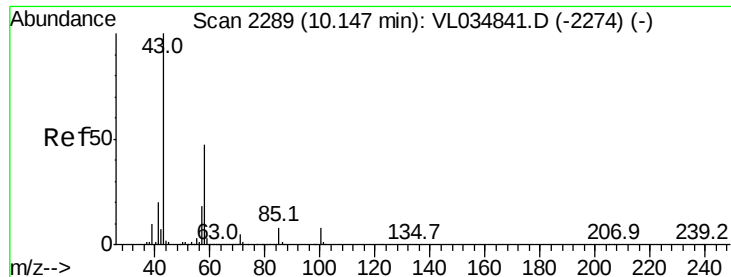
58 35.2 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

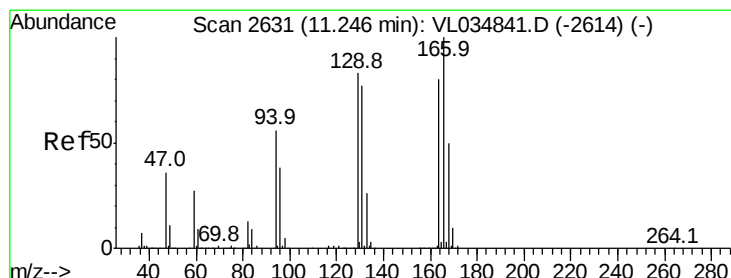
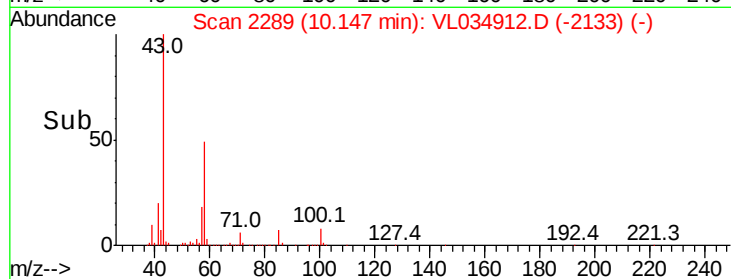
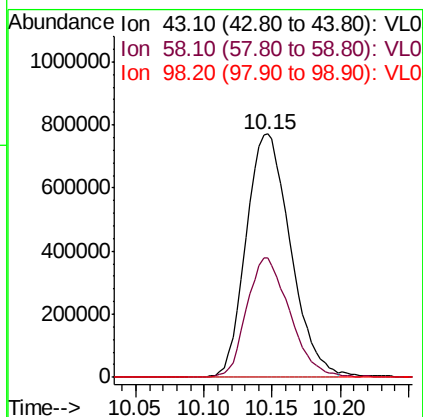
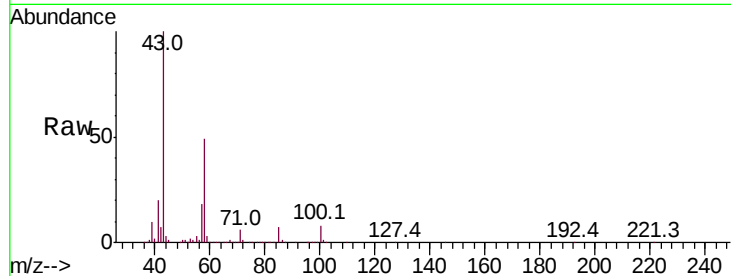




#51  
2-Hexanone  
Concen: 11.721 ppbv  
RT: 10.15 min Scan# 2289  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

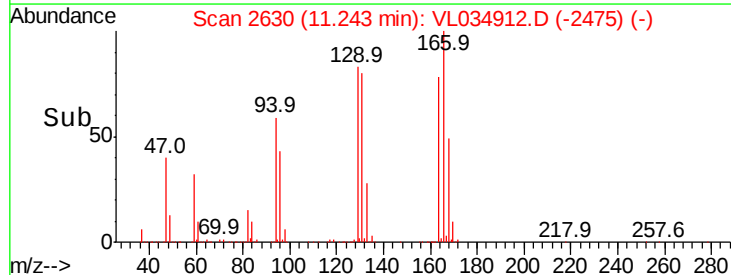
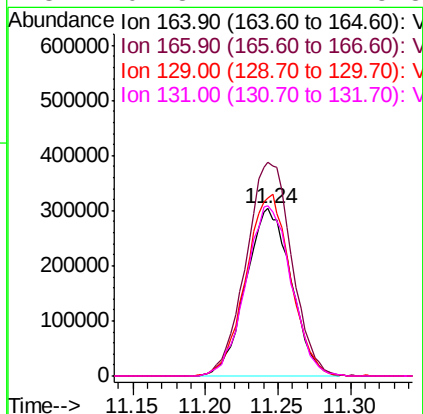
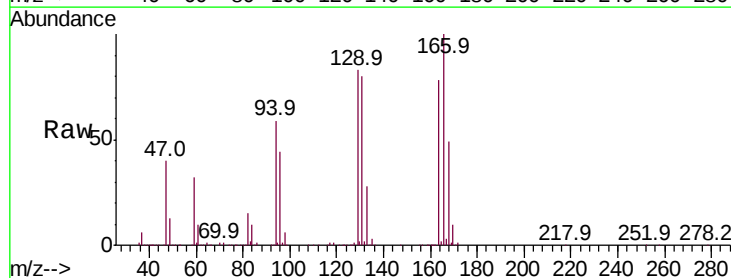
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

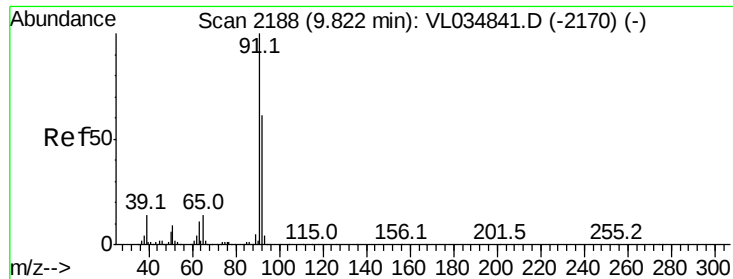
Tot Ion: 43 Resp: 1740714  
Ion Ratio Lower Upper  
43 100  
58 48.0 38.6 58.0  
98 0.1 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 9.775 ppbv  
RT: 11.24 min Scan# 2630  
Delta R.T. -0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

Tgt Ion:164 Resp: 658468  
Ion Ratio Lower Upper  
164 100  
166 127.6 100.0 150.0  
129 106.3 83.1 124.7  
131 101.8 77.2 115.8





#53

Toluene

Concen: 11.328 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

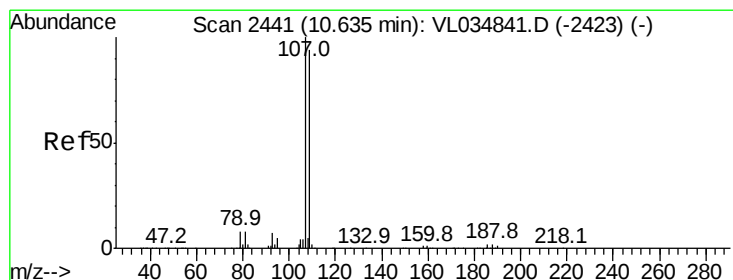
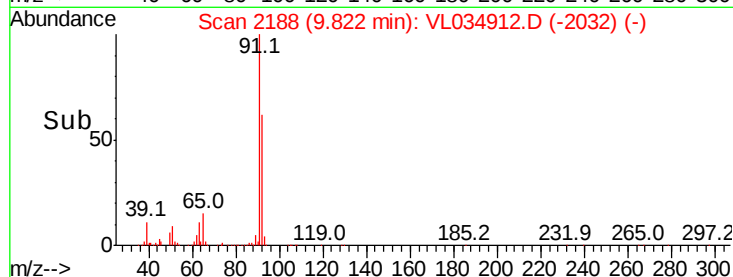
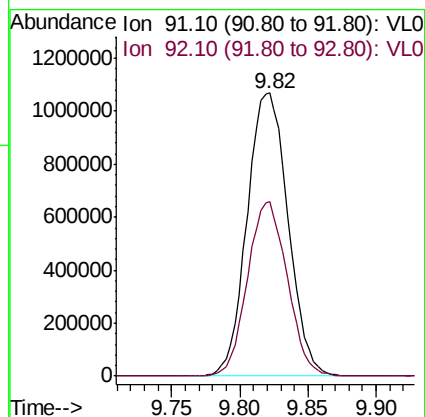
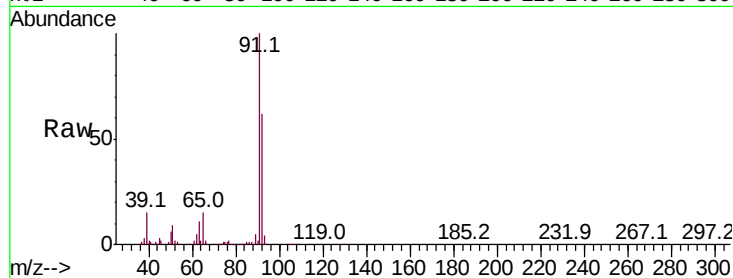
VSTDCCC010EC

Tot Ion: 91 Resp: 2227397

Ion Ratio Lower Upper

91 100

92 60.0 48.6 72.8



#54

1,2-Dibromoethane

Concen: 11.216 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL034912.D

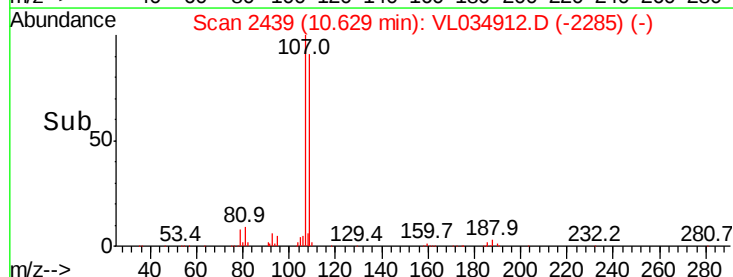
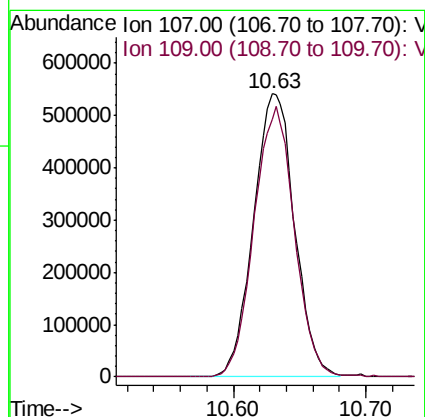
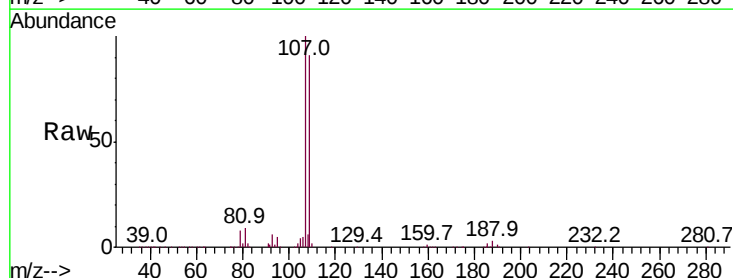
Acq: 17 Mar 2020 5:11

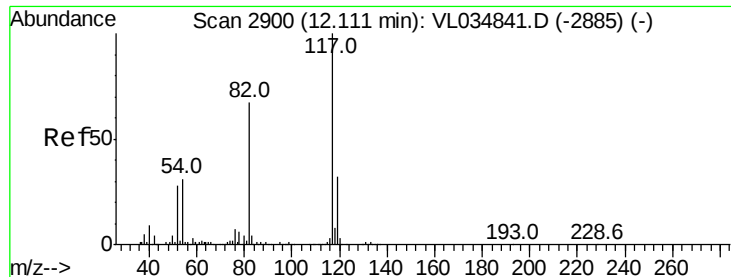
Tgt Ion: 107 Resp: 1168885

Ion Ratio Lower Upper

107 100

109 91.2 74.9 112.3

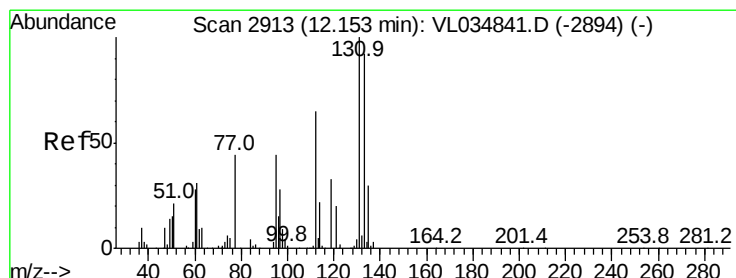
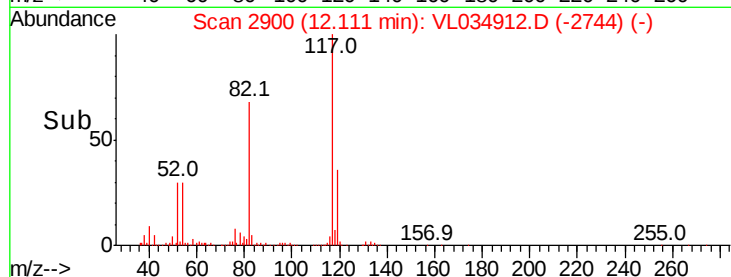
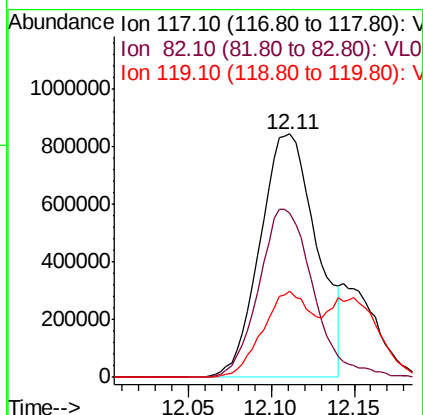
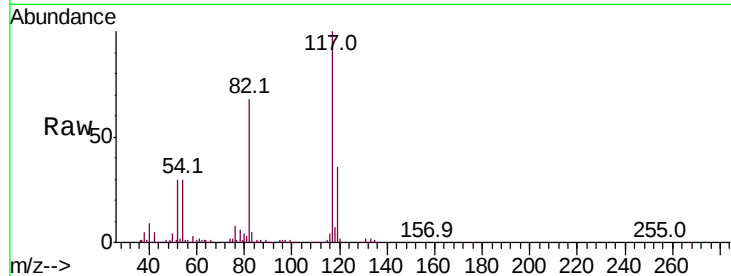




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.11 min Scan# 2900  
Delta R.T. 0.00 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

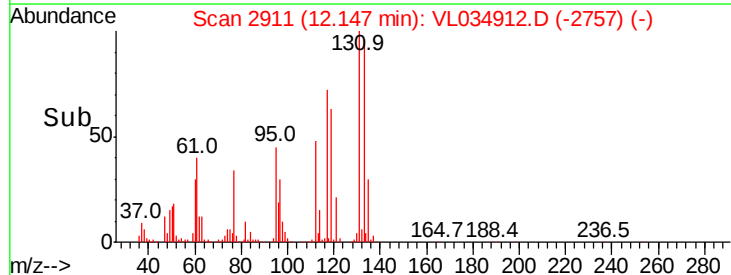
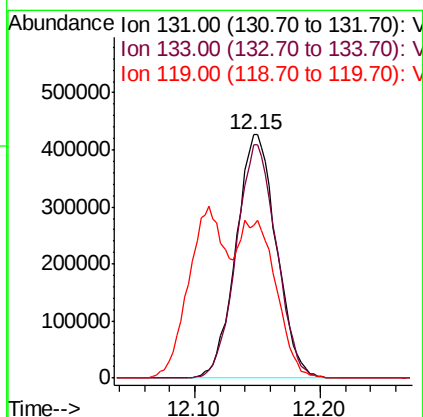
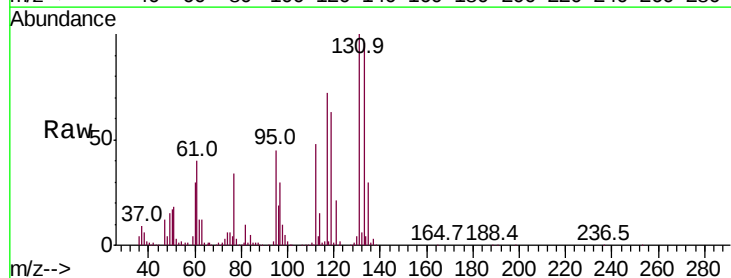
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

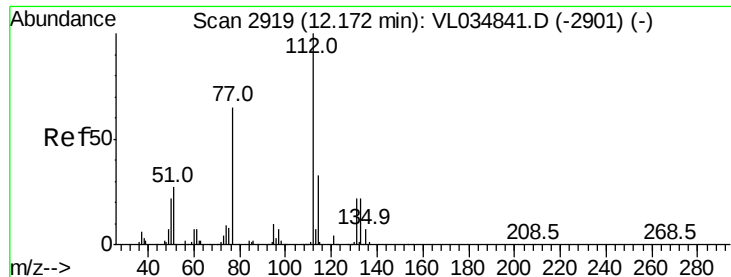
Tot Ion:117 Resp: 2011384  
Ion Ratio Lower Upper  
117 100  
82 67.0 51.1 76.7  
119 30.0 27.3 40.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.532 ppbv  
RT: 12.15 min Scan# 2911  
Delta R.T. -0.01 min  
Lab File: VL034912.D  
Acq: 17 Mar 2020 5:11

Tgt Ion:131 Resp: 951629  
Ion Ratio Lower Upper  
131 100  
133 95.8 76.0 114.0  
119 68.5 47.8 71.8





#57

Chlorobenzene

Concen: 10.408 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

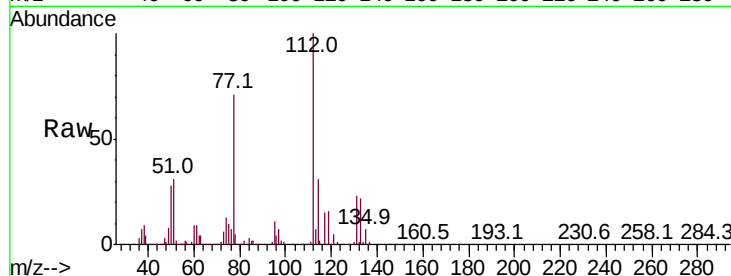
Tot Ion:112 Resp: 1637905

Ion Ratio Lower Upper

112 100

77 71.2 53.0 79.6

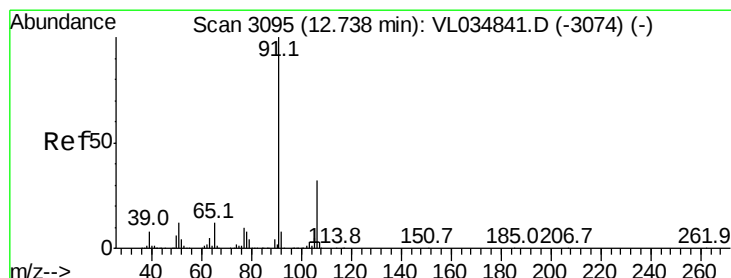
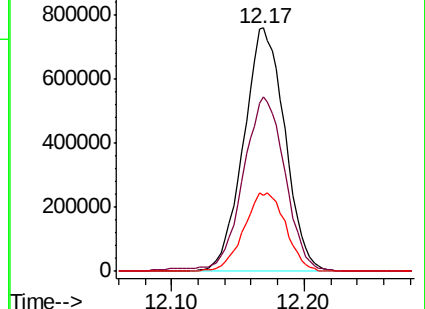
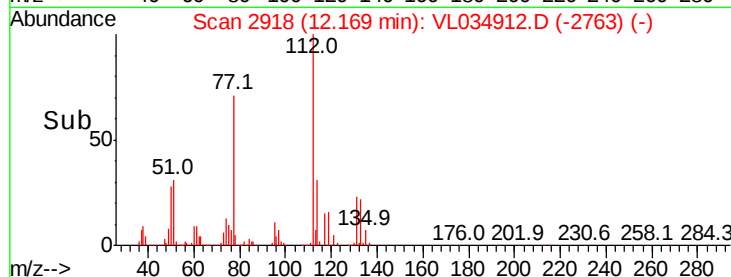
114 31.3 29.5 36.1



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: 10.855 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL034912.D

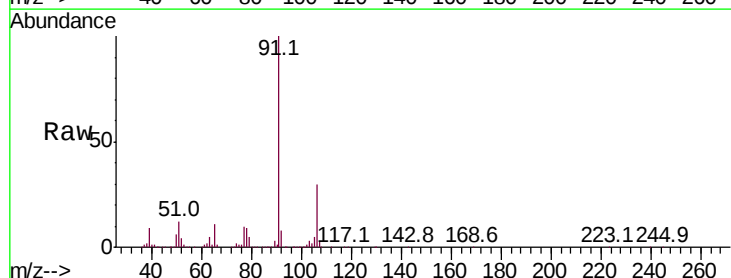
Acq: 17 Mar 2020 5:11

Tgt Ion: 91 Resp: 2956841

Ion Ratio Lower Upper

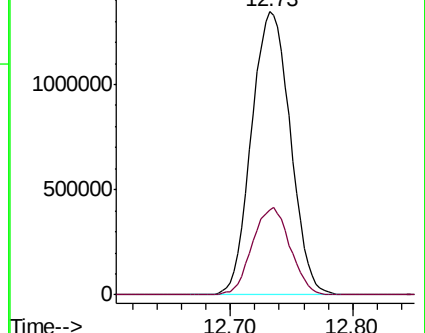
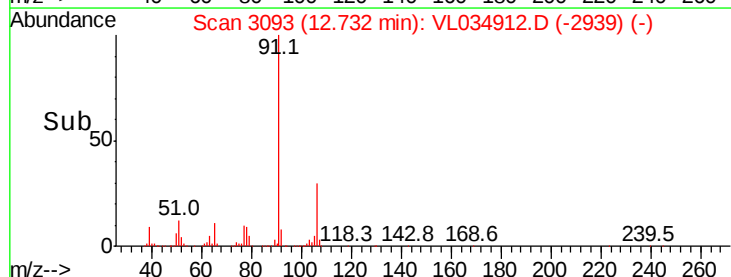
91 100

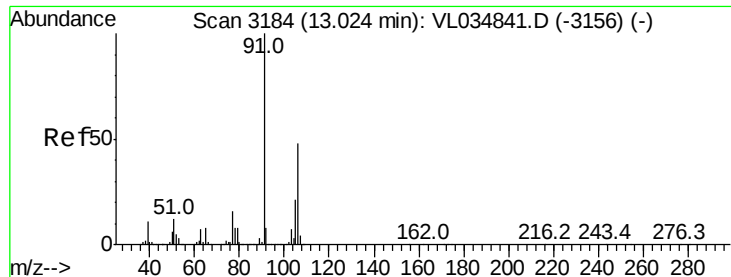
106 30.2 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 10.857 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.01 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

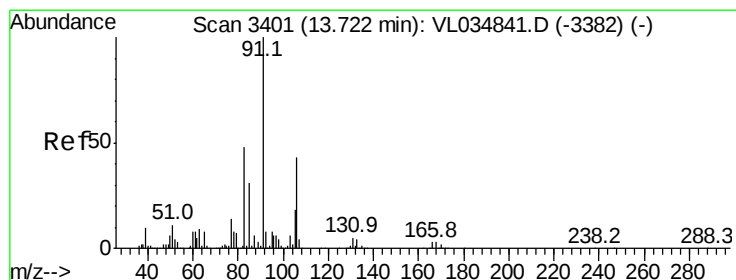
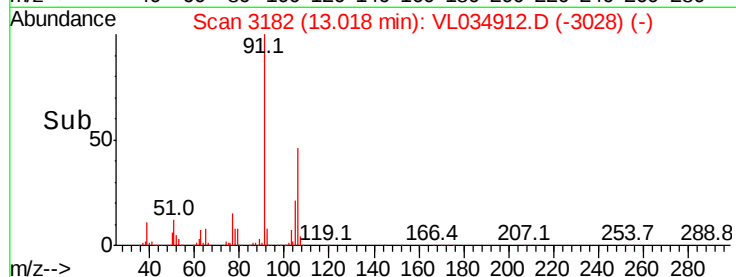
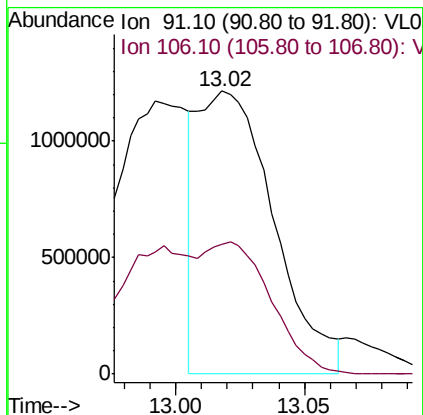
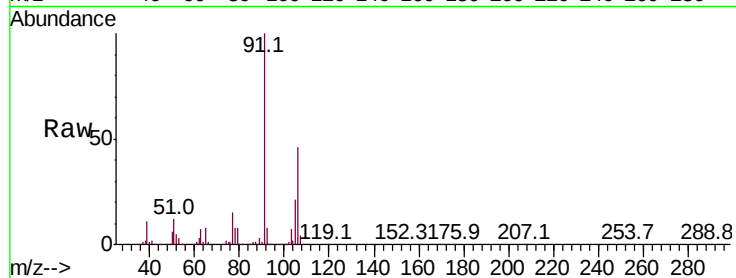
VSTDCCC010EC

Tot Ion: 91 Resp: 2477565

Ion Ratio Lower Upper

91 100

106 88.0 37.1 55.7#



#60

o-Xylene

Concen: 10.710 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VL034912.D

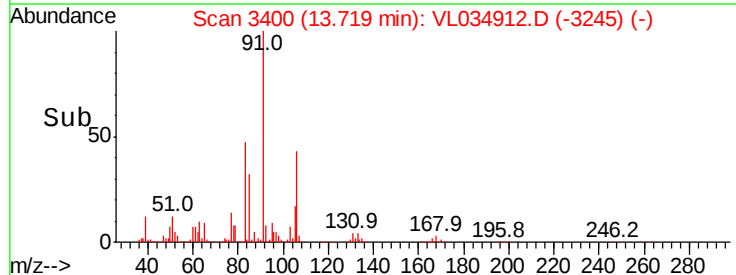
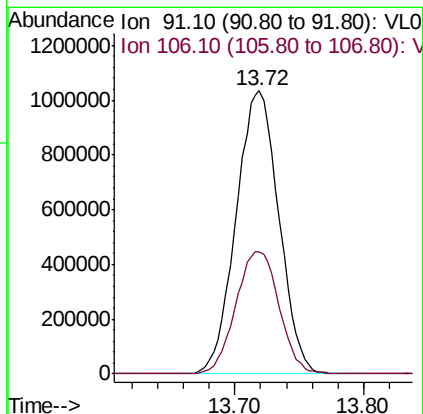
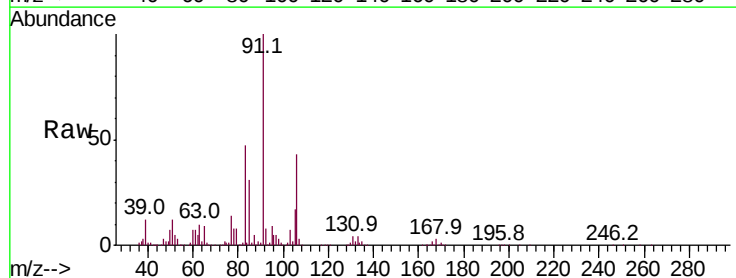
Acq: 17 Mar 2020 5:11

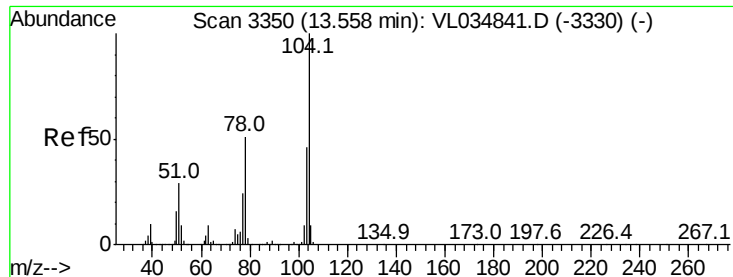
Tgt Ion: 91 Resp: 2386377

Ion Ratio Lower Upper

91 100

106 43.9 22.5 67.5





#61

Stvrene

Concen: 11.043 ppbv

RT: 13.55 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

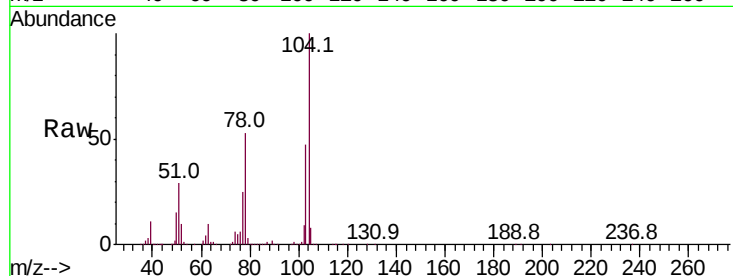
Tot Ion:104 Resp: 1726783

Ion Ratio Lower Upper

104 100

78 54.3 41.8 62.6

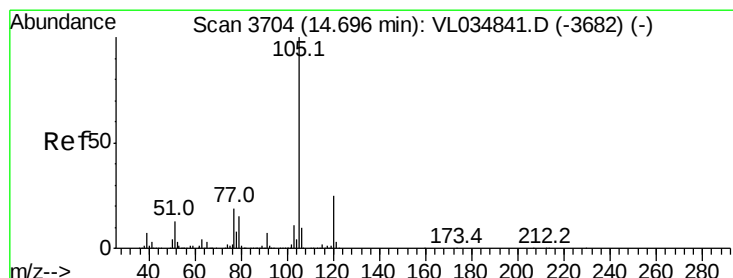
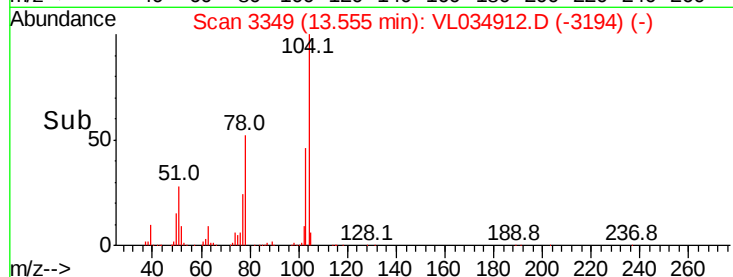
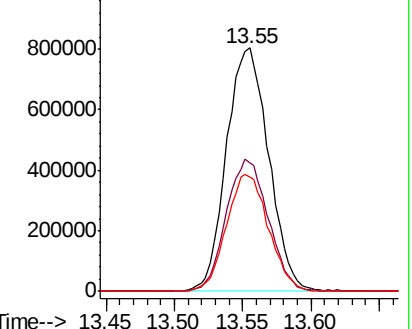
103 47.9 37.8 56.6



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: 10.386 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL034912.D

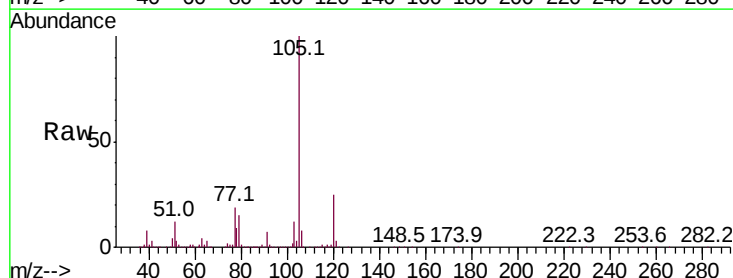
Acq: 17 Mar 2020 5:11

Tgt Ion:105 Resp: 3499067

Ion Ratio Lower Upper

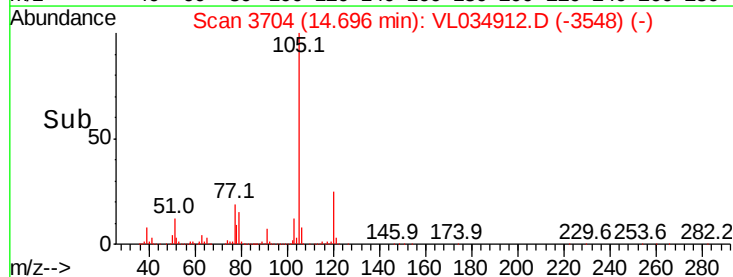
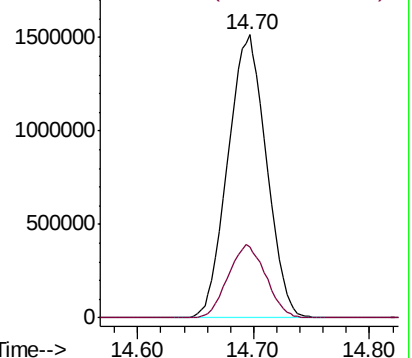
105 100

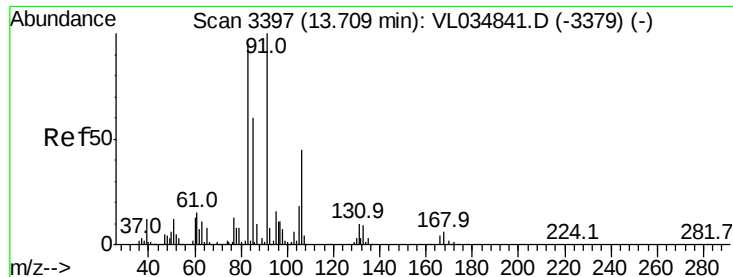
120 25.3 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

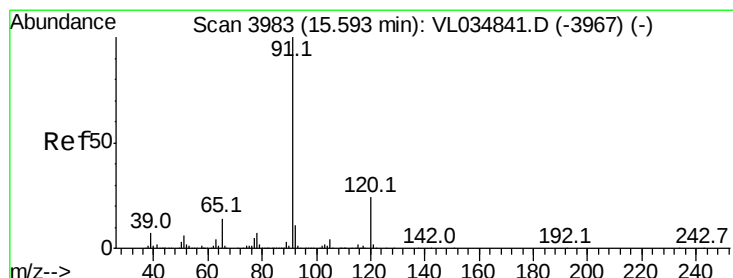
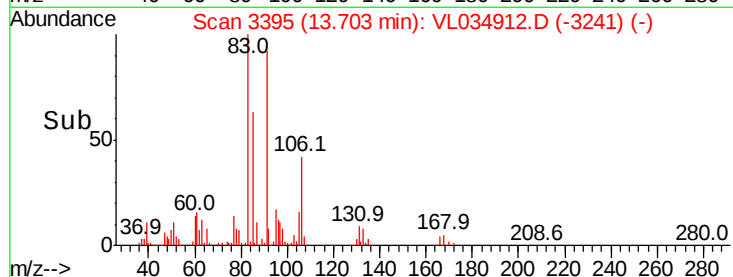
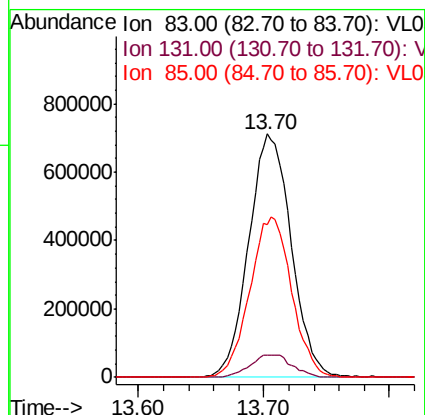
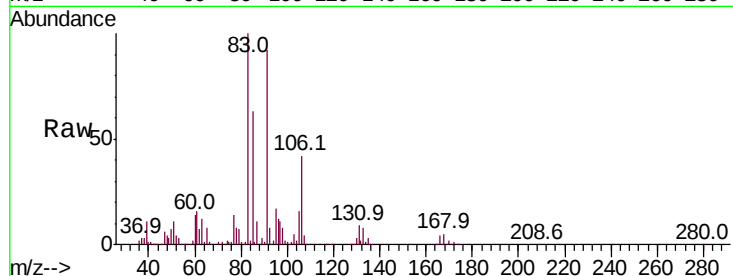




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 11.062 ppbv  
 RT: 13.70 min Scan# 3395  
 Delta R.T. -0.01 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

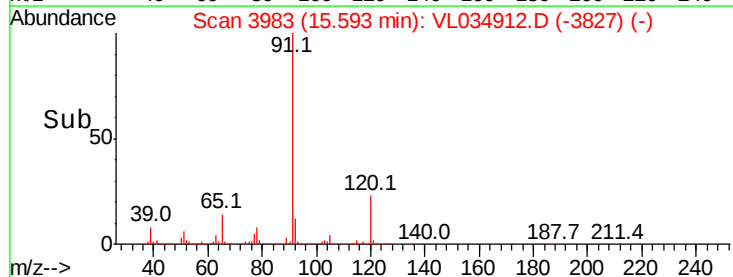
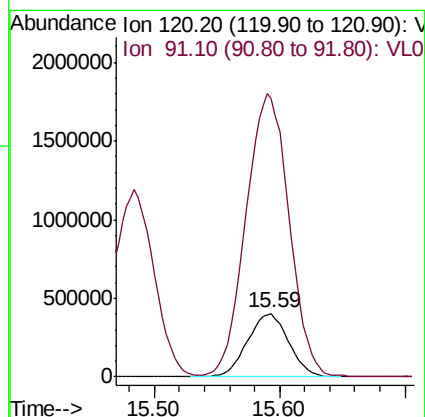
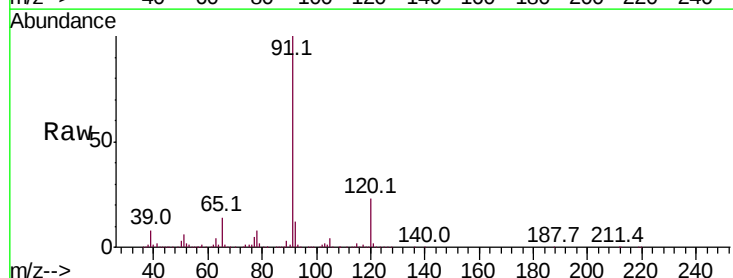
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

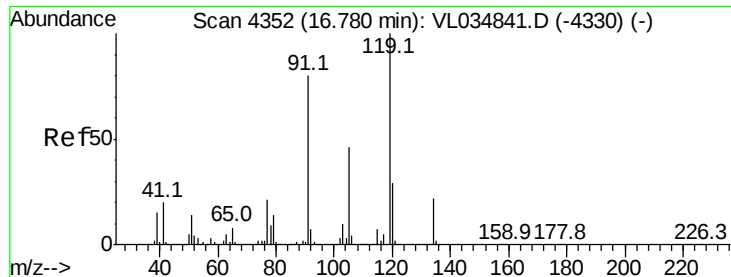
Tot Ion: 83 Resp: 1673198  
 Ion Ratio Lower Upper  
 83 100  
 131 9.2 5.0 14.9  
 85 65.2 32.4 97.2



#64  
 n-propylbenzene  
 Concen: 10.463 ppbv  
 RT: 15.59 min Scan# 3983  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion:120 Resp: 917476  
 Ion Ratio Lower Upper  
 120 100  
 91 470.4 360.9 541.3





#65

tert-Butylbenzene

Concen: 10.286 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

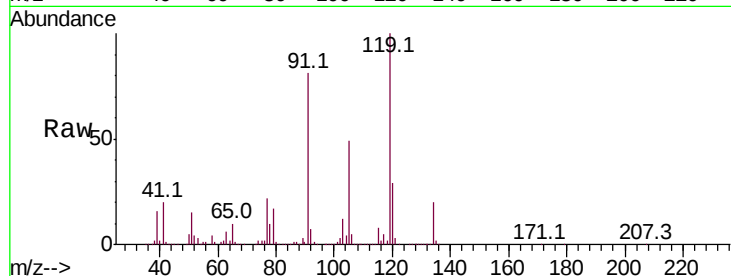
Tot Ion:119 Resp: 3029323

Ion Ratio Lower Upper

119 100

91 84.2 64.9 97.3

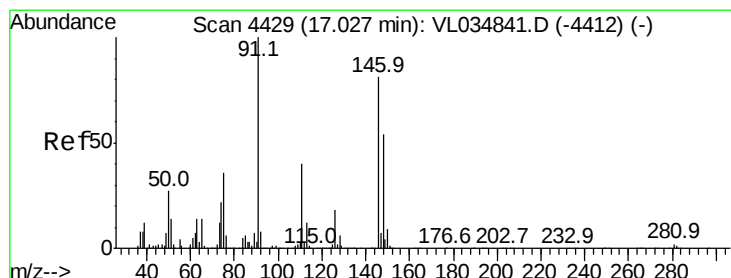
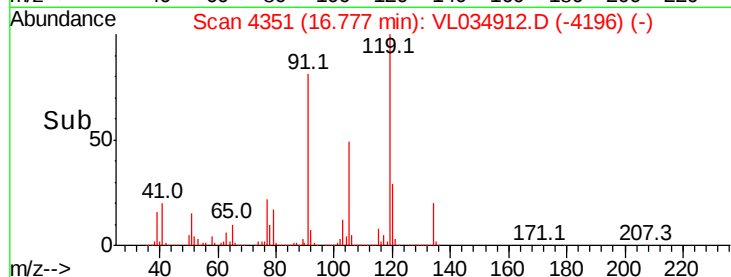
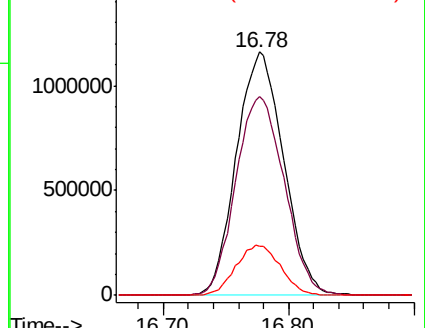
134 19.6 15.9 23.9



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.266 ppbv

RT: 17.02 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

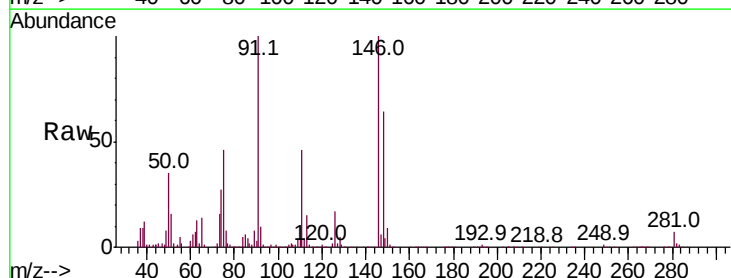
Tgt Ion: 91 Resp: 1260769

Ion Ratio Lower Upper

91 100

126 16.3 14.7 22.1

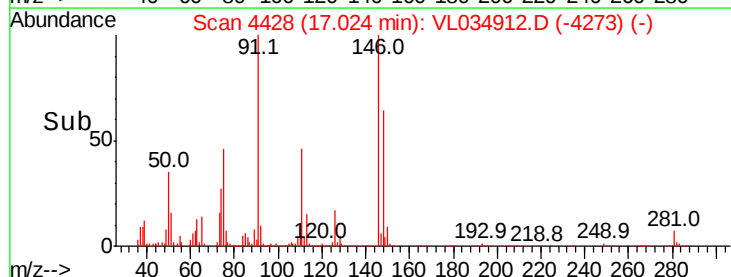
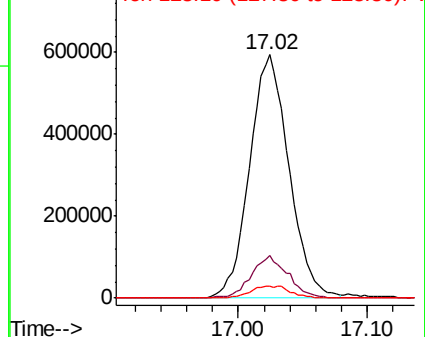
128 5.3 4.7 7.1

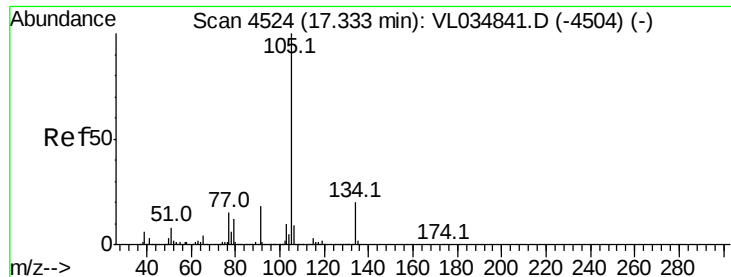


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

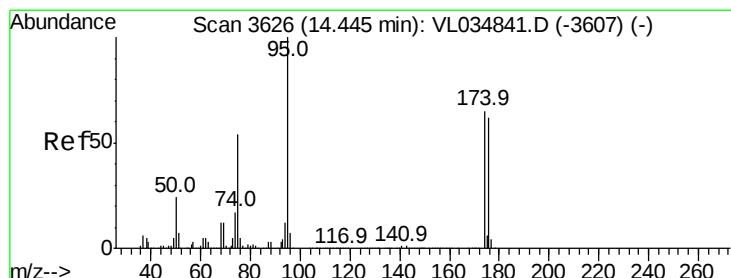
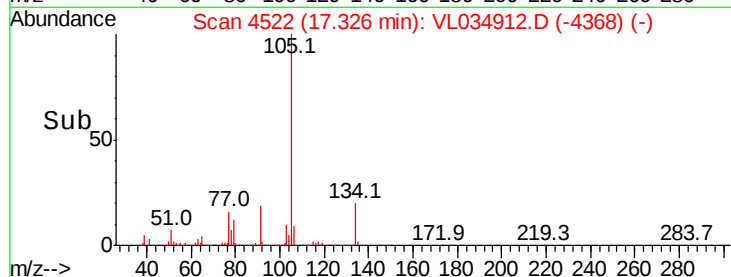
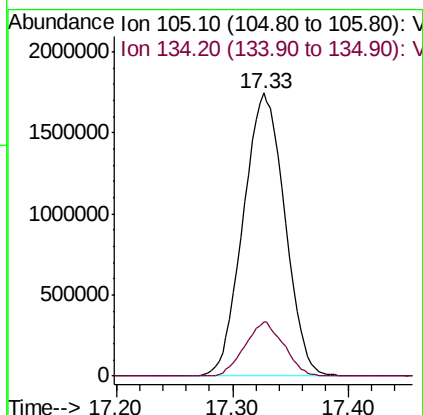
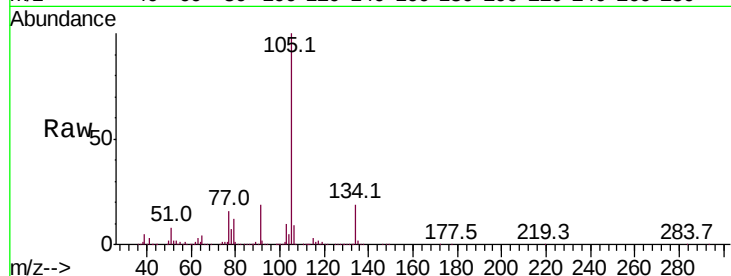




#67  
 sec-Butylbenzene  
 Concen: 10.667 ppbv  
 RT: 17.33 min Scan# 4522  
 Delta R.T. -0.01 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

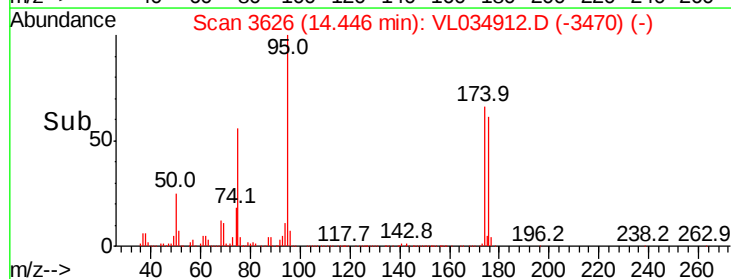
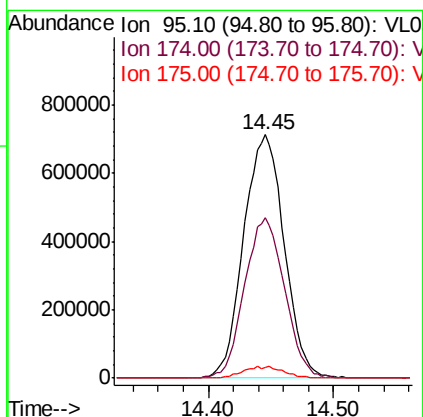
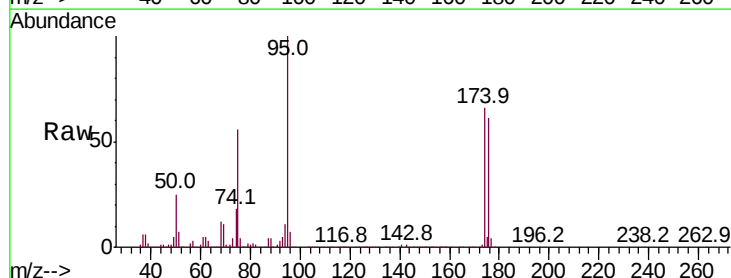
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

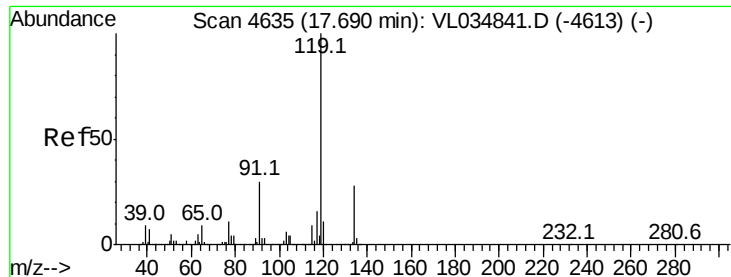
Tot Ion:105 Resp: 4356319  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 15.0 22.6



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.190 ppbv  
 RT: 14.45 min Scan# 3626  
 Delta R.T. 0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion: 95 Resp: 1598385  
 Ion Ratio Lower Upper  
 95 100  
 174 65.2 55.2 82.8  
 175 4.8 4.3 6.5



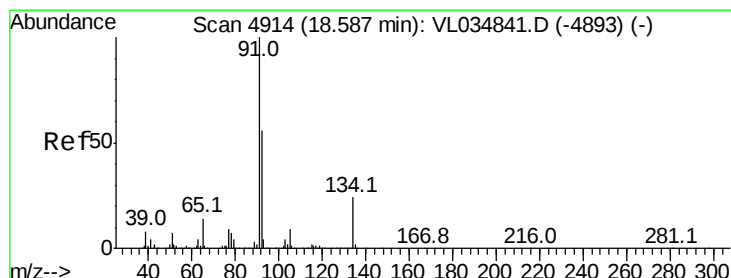
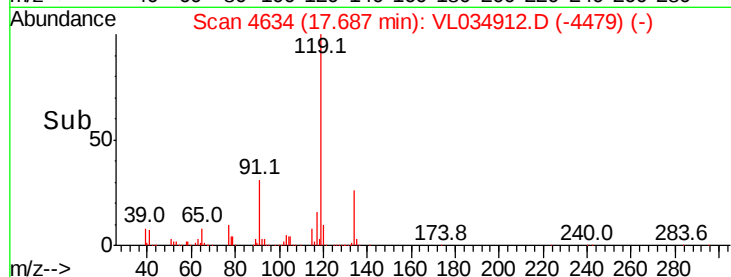
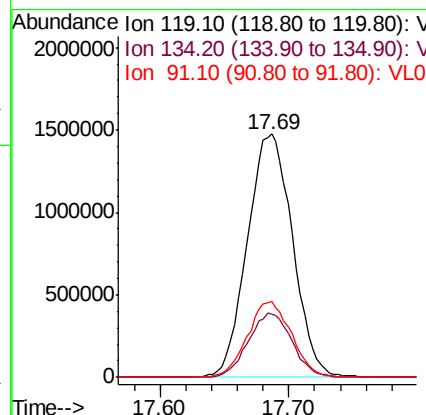
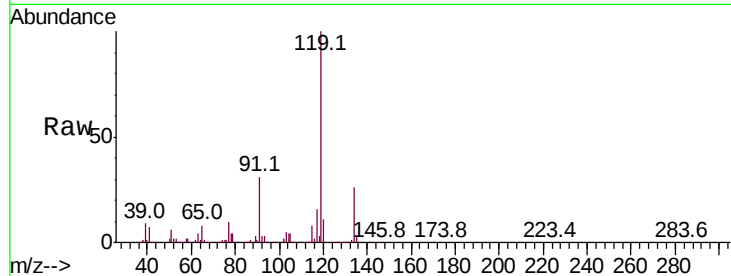


#69  
 p-Isopropyltoluene  
 Concen: 10.486 ppbv  
 RT: 17.69 min Scan# 4634  
 Delta R.T. -0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:119 Resp: 3590670  

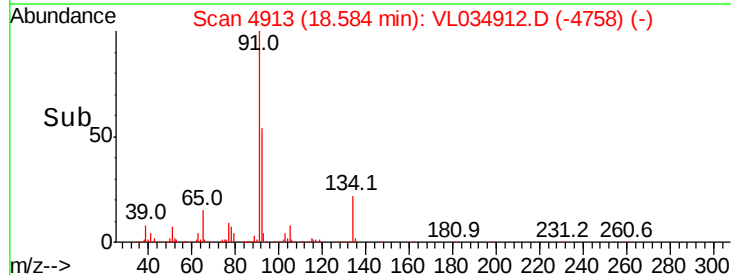
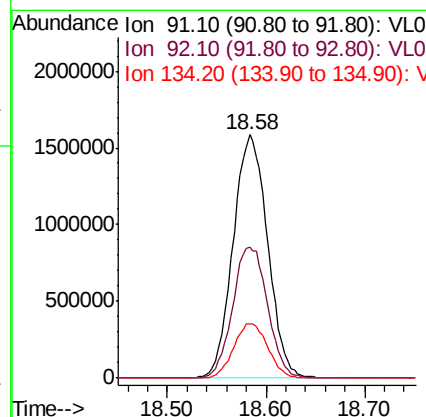
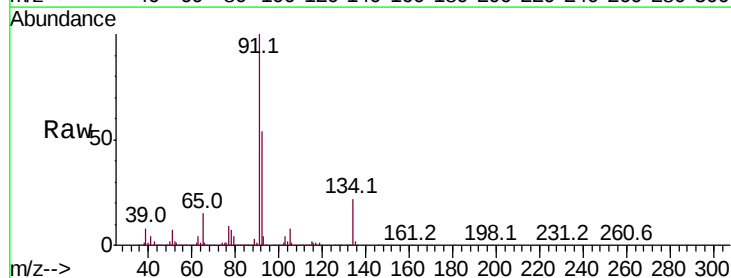
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 25.6  | 20.6  | 30.8  |
| 91  | 30.6  | 23.4  | 35.2  |

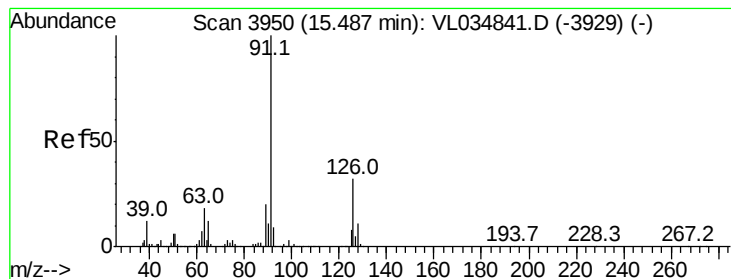


#70  
 n-Butylbenzene  
 Concen: 11.031 ppbv  
 RT: 18.58 min Scan# 4913  
 Delta R.T. -0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion: 91 Resp: 3853942  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 54.6  | 43.8  | 65.6  |
| 134 | 22.4  | 19.0  | 28.4  |

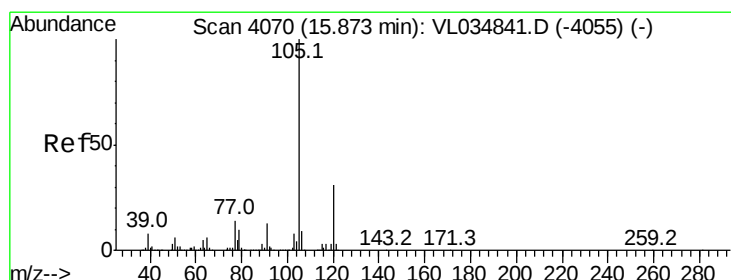
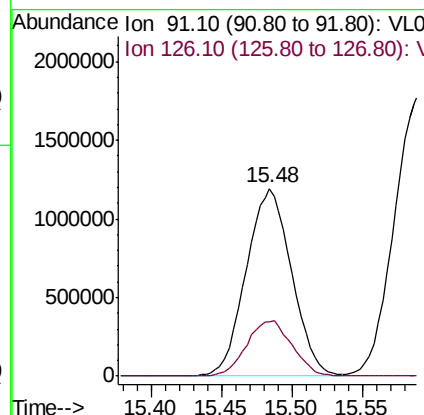
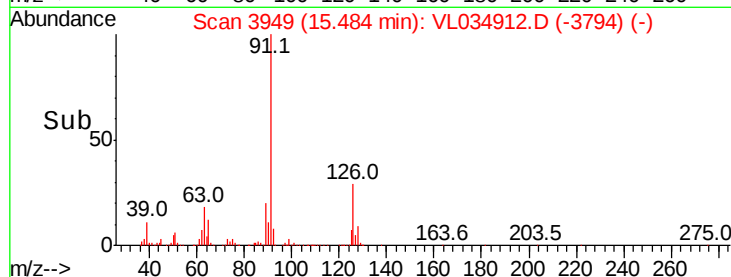
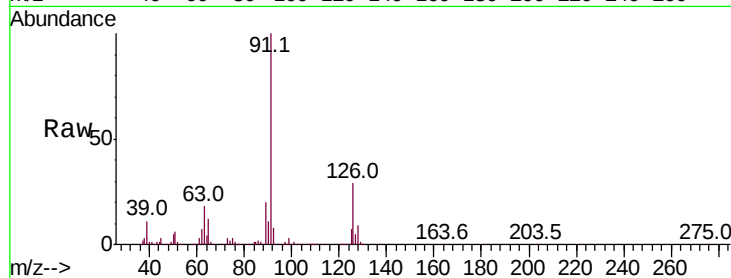




#71  
 2-Chlorotoluene  
 Concen: 10.483 ppbv  
 RT: 15.48 min Scan# 3949  
 Delta R.T. -0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

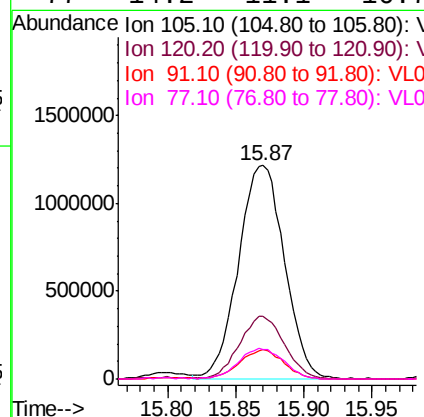
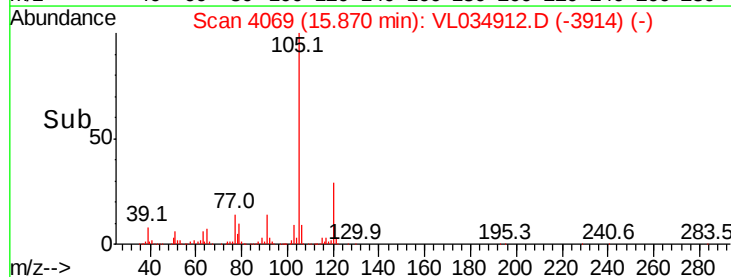
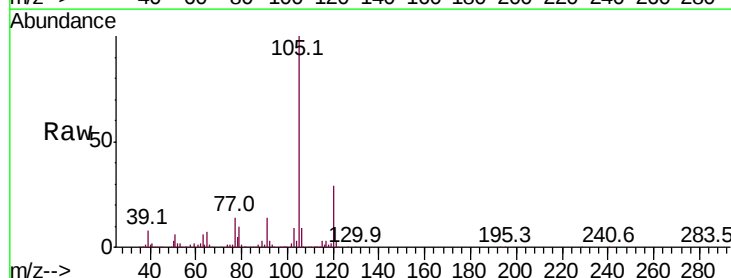
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

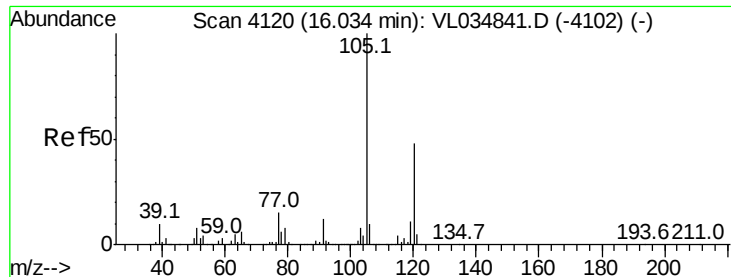
Tot Ion: 91 Resp: 2674552  
 Ion Ratio Lower Upper  
 91 100  
 126 29.8 12.3 49.1



#72  
 4-Ethyltoluene  
 Concen: 10.769 ppbv  
 RT: 15.87 min Scan# 4069  
 Delta R.T. -0.00 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Tgt Ion:105 Resp: 2833749  
 Ion Ratio Lower Upper  
 105 100  
 120 28.8 23.7 35.5  
 91 13.8 10.5 15.7  
 77 14.2 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.854 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.01 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

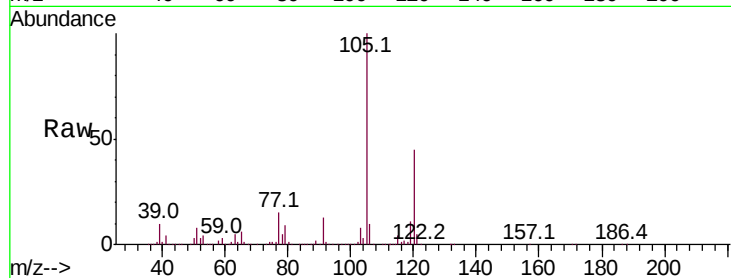
VSTDCCC010EC

Tot Ion:105 Resp: 2673624

Ion Ratio Lower Upper

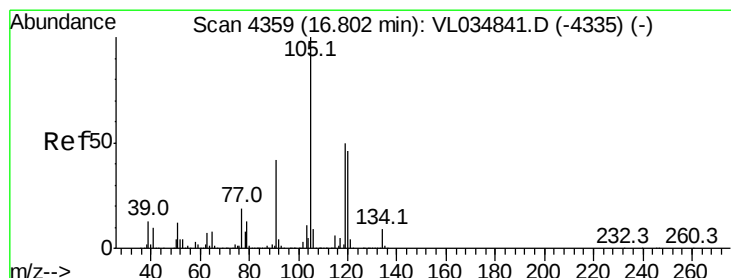
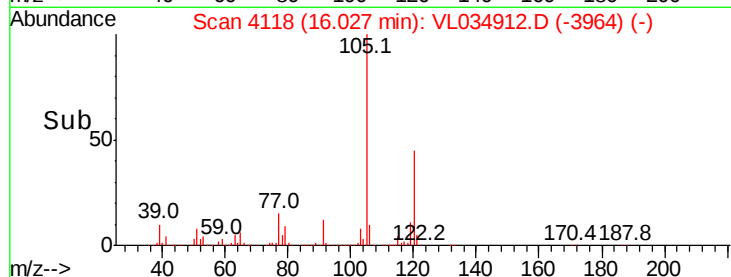
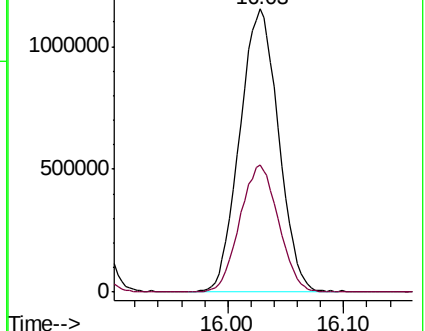
105 100

120 45.0 38.6 58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.952 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. -0.01 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Tgt Ion:105 Resp: 2779312

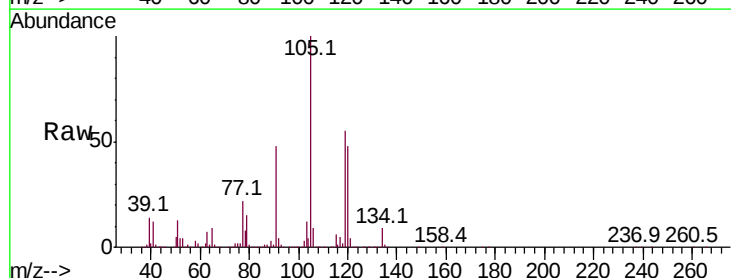
Ion Ratio Lower Upper

105 100

120 47.9 37.0 55.4

91 48.0 33.8 50.6

77 22.0 15.4 23.0

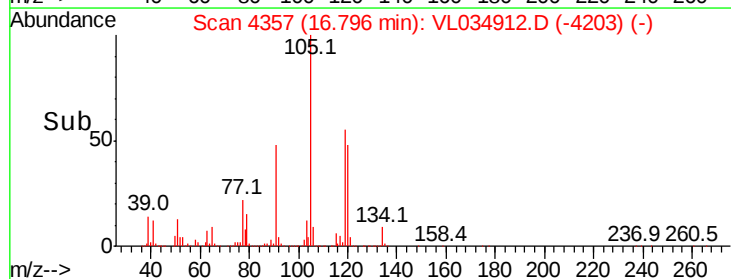
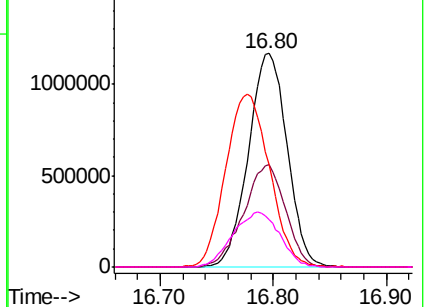


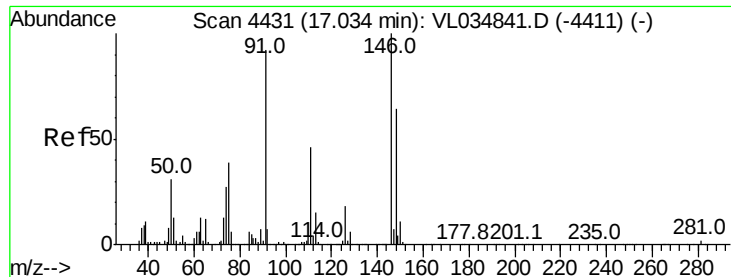
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 10.394 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

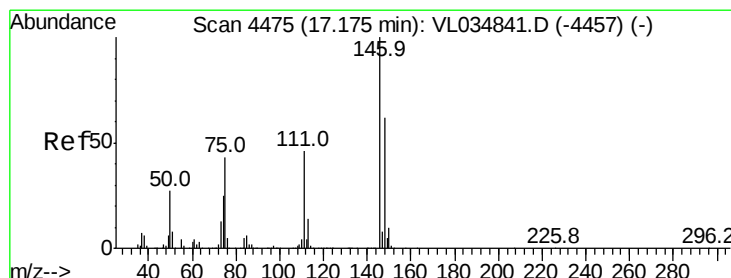
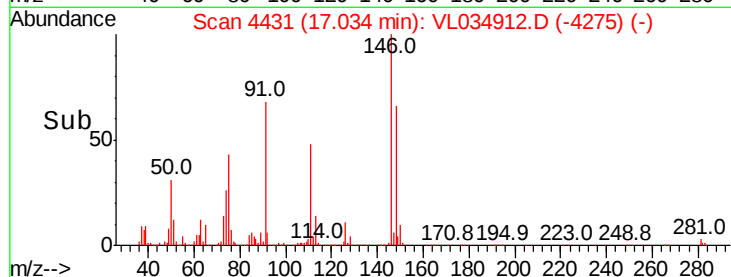
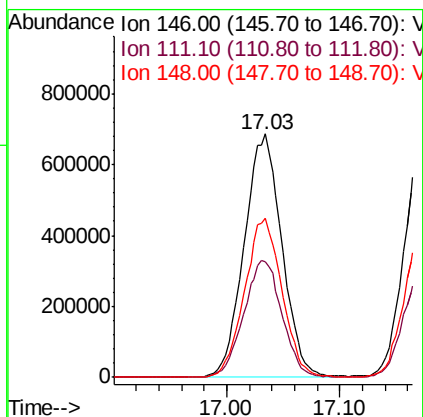
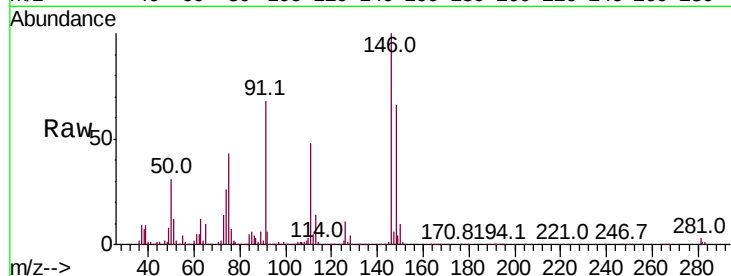
Tot Ion:146 Resp: 1590505

Ion Ratio Lower Upper

146 100

111 48.7 23.9 71.7

148 64.6 32.5 97.5



#76

1,4-Dichlorobenzene

Concen: 10.309 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

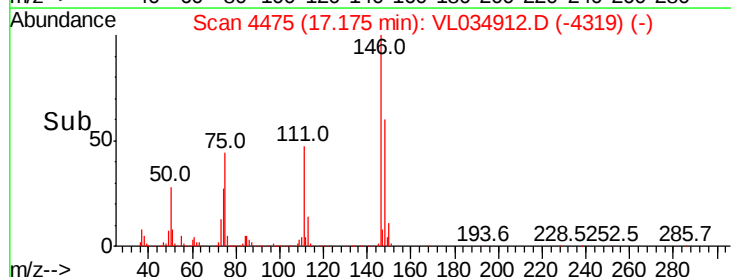
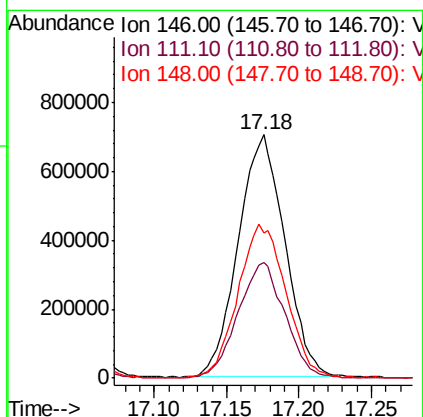
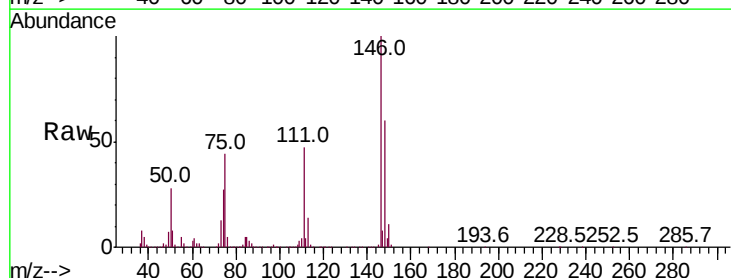
Tgt Ion:146 Resp: 1574195

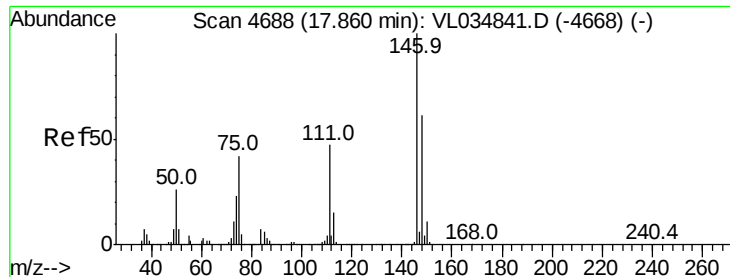
Ion Ratio Lower Upper

146 100

111 48.3 23.4 70.2

148 65.8 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 10.545 ppbv

RT: 17.86 min Scan# 4687

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

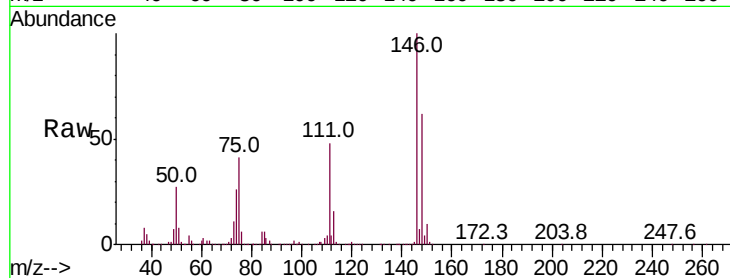
Tot Ion:146 Resp: 1564150

Ion Ratio Lower Upper

146 100

111 49.5 23.8 71.4

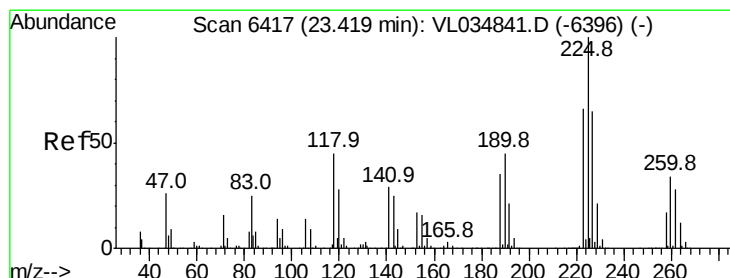
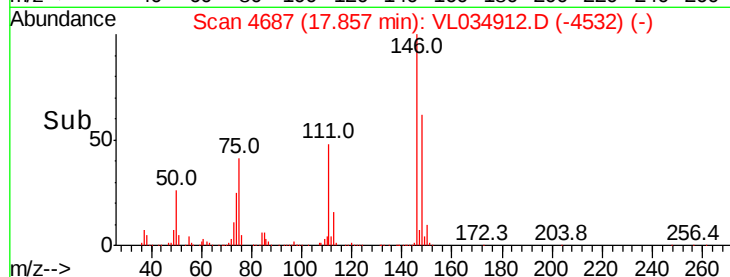
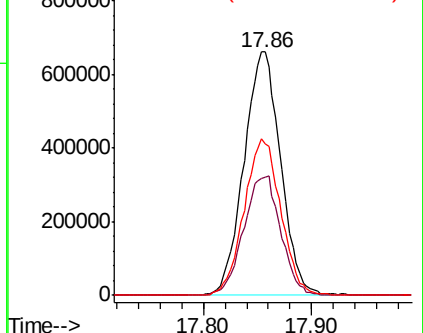
148 64.2 31.6 94.8



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: 10.791 ppbv

RT: 23.42 min Scan# 6416

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

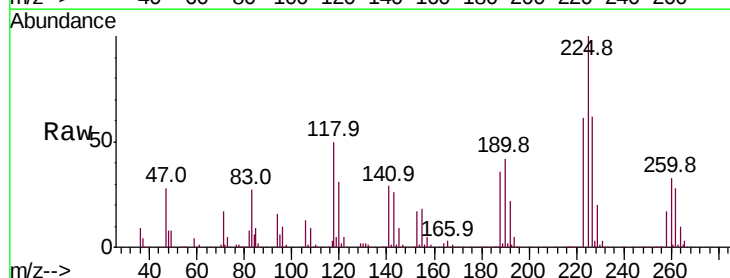
Tgt Ion:225 Resp: 1336809

Ion Ratio Lower Upper

225 100

223 64.1 51.1 76.7

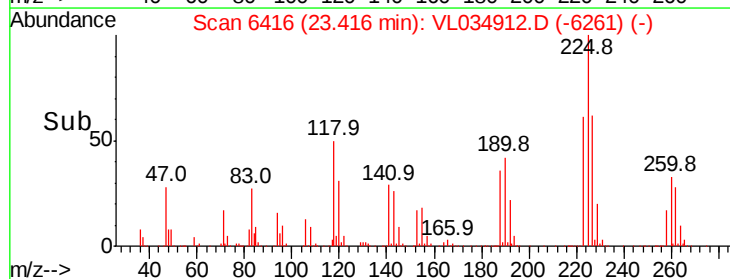
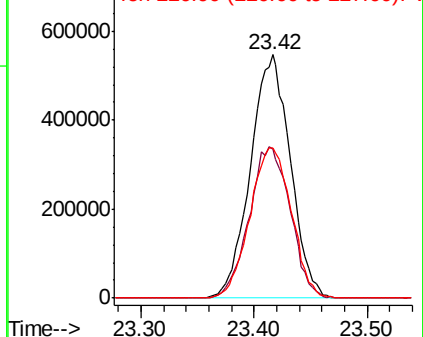
227 64.3 51.8 77.6

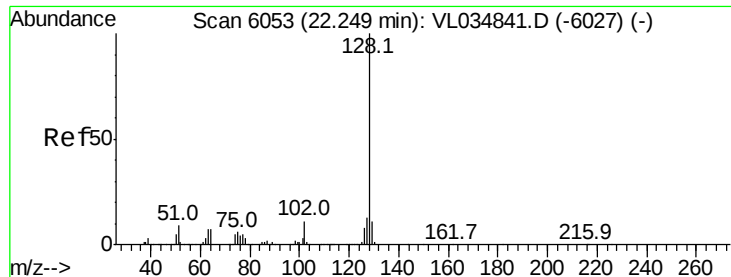


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 13.637 ppbv

RT: 22.25 min Scan# 6052

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

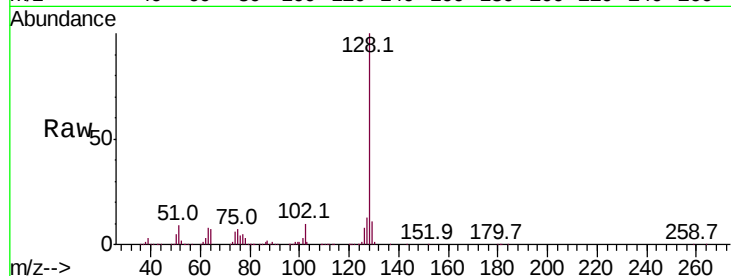
Tot Ion:128 Resp: 2698976

Ion Ratio Lower Upper

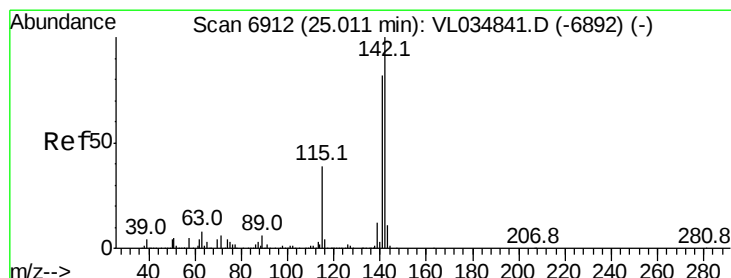
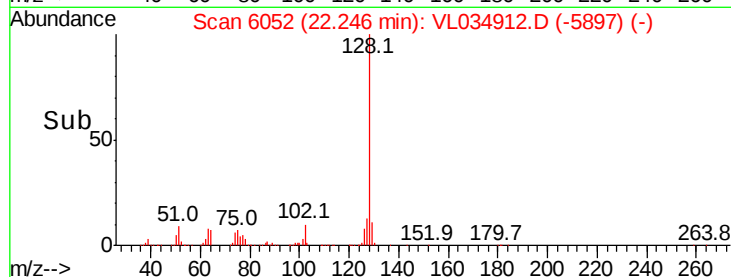
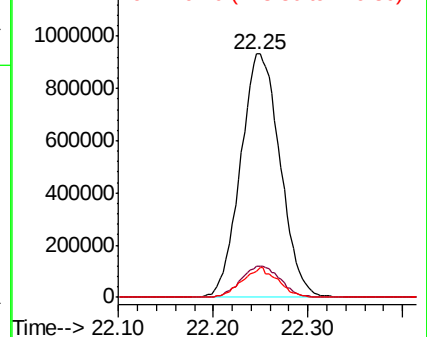
128 100

127 12.6 10.2 15.2

129 10.8 8.6 13.0



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: 18.623 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. -0.00 min

Lab File: VL034912.D

Acq: 17 Mar 2020 5:11

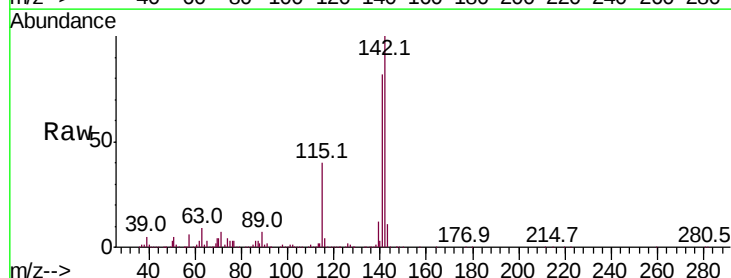
Tgt Ion:142 Resp: 963164

Ion Ratio Lower Upper

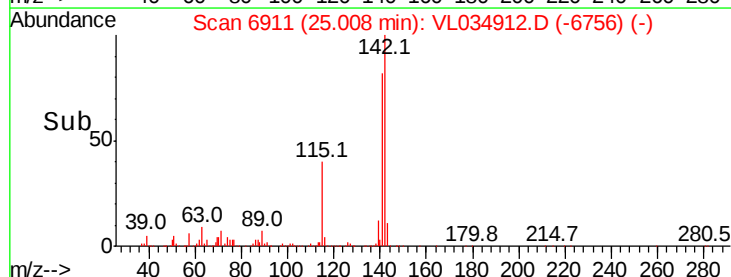
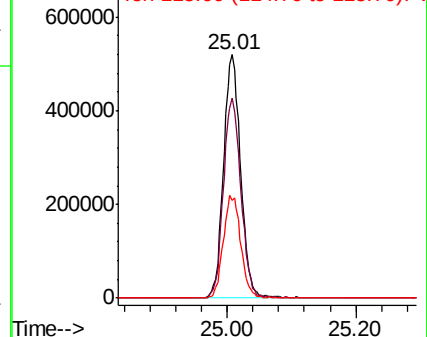
142 100

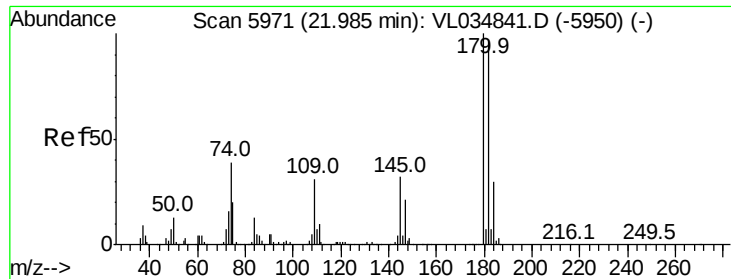
141 84.5 68.9 103.3

115 43.0 33.2 49.8



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

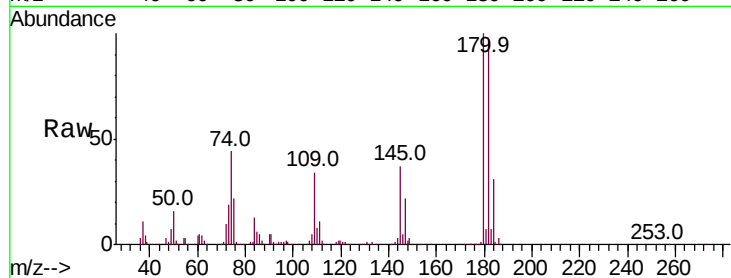




#81  
 1,2,4-Trichlorobenzene  
 Concen: 12.163 ppbv  
 RT: 21.98 min Scan# 5969  
 Delta R.T. -0.01 min  
 Lab File: VL034912.D  
 Acq: 17 Mar 2020 5:11

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tot Ion:180 Resp: 1529289  
 Ion Ratio Lower Upper  
 180 100  
 182 97.3 76.6 115.0  
 184 31.5 25.0 37.4



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

