

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL081618\  
 Data File : VL032404.D  
 Acq On : 17 Aug 2018 12:01  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Aug 17 23:21:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081518AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 15 14:58:02 2018  
 QLast Update : Wed Aug 15 14:58:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.82  | 49   | 1782107  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.35  | 114  | 3750253  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.31 | 117  | 4553839  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.65  | 95    | 2784538  | 8.01     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 80.10% |

## Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.11 | 85  | 1879702 | 13.266 | ppbv | 99     |
| 3) Chlorodifluoromethane       | 3.05 | 51  | 1595556 | 9.665  | ppbv | 100    |
| 4) Chloromethane               | 3.21 | 50  | 979279  | 9.967  | ppbv | 96     |
| 5) Vinyl Chloride              | 3.33 | 62  | 930474  | 9.935  | ppbv | 99     |
| 6) Bromomethane                | 3.55 | 94  | 525732  | 10.470 | ppbv | 99     |
| 7) Chloroethane                | 3.64 | 64  | 340046  | 10.354 | ppbv | 98     |
| 8) Dichlorotetrafluoroethane   | 3.26 | 85  | 1987030 | 9.867  | ppbv | 99     |
| 9) Propene                     | 3.07 | 41  | 715605  | 10.128 | ppbv | 99     |
| 10) Heptane                    | 8.31 | 43  | 2577691 | 12.113 | ppbv | 100    |
| 11) Trichlorofluoromethane     | 4.05 | 101 | 2000617 | 10.037 | ppbv | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.60 | 101 | 1323730 | 9.863  | ppbv | 98     |
| 13) Ethanol                    | 3.69 | 45  | 199877  | 11.015 | ppbv | 98     |
| 14) Bromoethene                | 3.83 | 108 | 616695  | 10.624 | ppbv | 99     |
| 15) Acetone                    | 3.95 | 43  | 1582949 | 9.349  | ppbv | 100    |
| 16) 1,3-Butadiene              | 3.40 | 39  | 777853  | 11.127 | ppbv | 88     |
| 17) tert-Butyl alcohol         | 4.41 | 59  | 296245  | 10.427 | ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.40 | 96  | 643136  | 10.284 | ppbv | 98     |
| 19) Isopropyl Alcohol          | 4.07 | 45  | 1205569 | 10.574 | ppbv | # 98   |
| 20) Methylene Chloride         | 4.46 | 84  | 571341  | 8.935  | ppbv | 94     |
| 21) Allyl Chloride             | 4.53 | 41  | 1137490 | 10.644 | ppbv | 98     |
| 22) trans-1,2-Dichloroethene   | 5.01 | 96  | 682462  | 10.822 | ppbv | 96     |
| 23) Vinyl Acetate              | 5.21 | 43  | 3124341 | 10.686 | ppbv | 99     |
| 24) 1,1-Dichloroethane         | 5.14 | 63  | 2080613 | 9.856  | ppbv | 100    |
| 25) Ethyl Acetate              | 5.82 | 43  | 3693483 | 10.179 | ppbv | 100    |
| 26) Hexane                     | 5.84 | 57  | 1672994 | 10.342 | ppbv | 98     |
| 27) Carbon Disulfide           | 4.67 | 76  | 1673145 | 11.082 | ppbv | 100    |
| 28) Methyl tert-Butyl Ether    | 5.16 | 73  | 2297898 | 10.704 | ppbv | 99     |
| 29) Chloroform                 | 5.91 | 83  | 2484182 | 10.479 | ppbv | 98     |
| 30) Cyclohexane                | 7.31 | 84  | 1387579 | 11.261 | ppbv | 99     |
| 31) cis-1,2-Dichloroethene     | 5.69 | 61  | 1664576 | 10.518 | ppbv | 99     |
| 32) 1,1,1-Trichloroethane      | 6.68 | 97  | 2161916 | 9.371  | ppbv | 99     |
| 34) 2-Butanone                 | 5.38 | 43  | 2615052 | 10.245 | ppbv | 98     |
| 35) Carbon Tetrachloride       | 7.20 | 117 | 2403608 | 10.870 | ppbv | 100    |
| 36) Benzene                    | 7.07 | 78  | 3380025 | 10.631 | ppbv | 99     |
| 37) 1,2-Dichloroethane         | 6.47 | 62  | 1940609 | 10.060 | ppbv | 99     |
| 38) Trichloroethene            | 8.03 | 130 | 1267048 | 11.362 | ppbv | 98     |
| 39) 1,2-Dichloropropane        | 7.80 | 63  | 1346320 | 10.137 | ppbv | 99     |
| 40) 1,4-Dioxane                | 8.02 | 88  | 492787  | 12.215 | ppbv | # 1    |
| 41) Tetrahydrofuran            | 6.21 | 42  | 1506293 | 10.993 | ppbv | 99     |
| 42) Bromodichloromethane       | 7.98 | 83  | 2881786 | 11.410 | ppbv | 99     |
| 43) Methyl Methacrylate        | 8.20 | 69  | 1529450 | 12.073 | ppbv | 99     |

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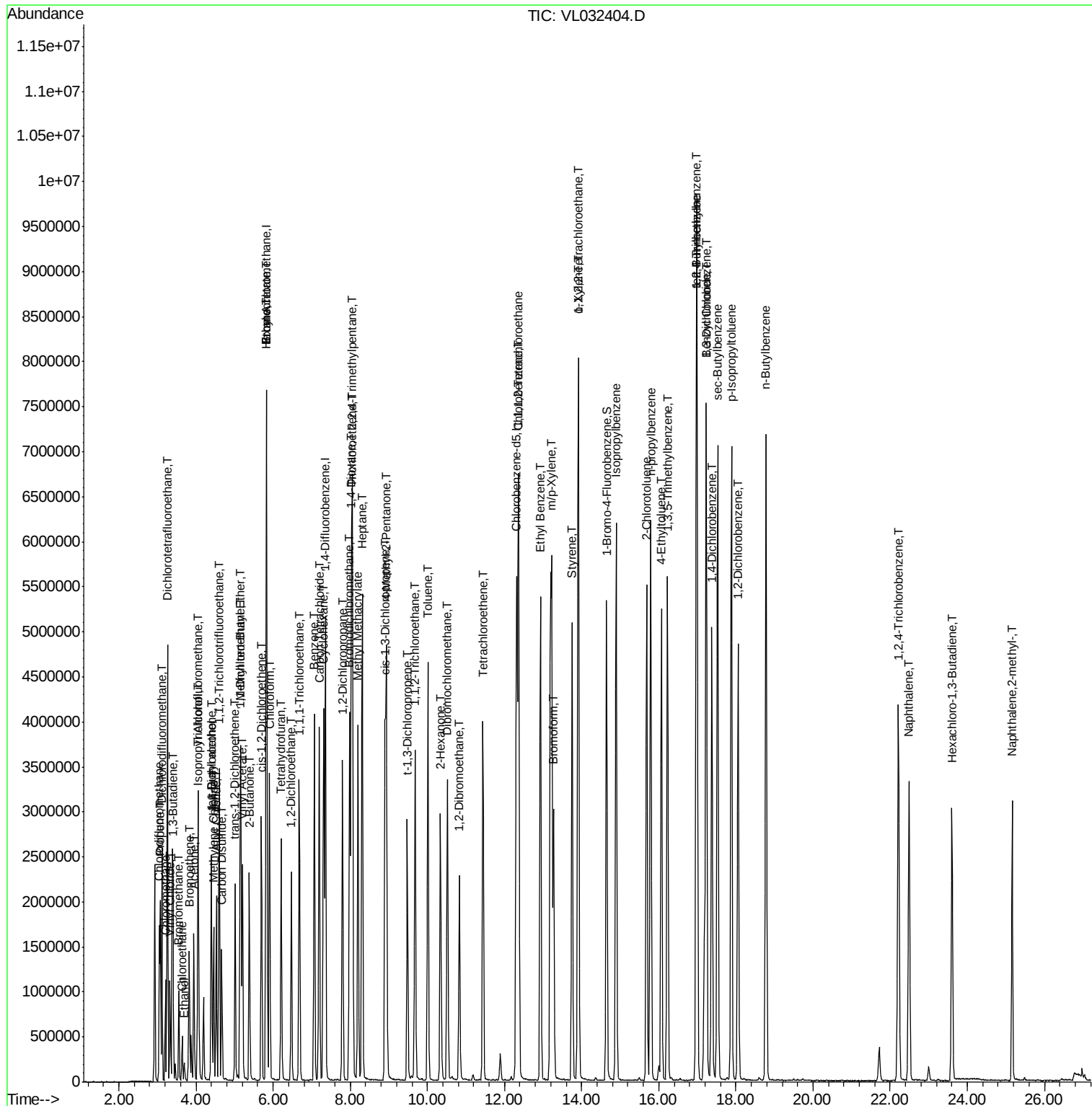
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 8.05  | 57   | 6534483  | 11.397 | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.48  | 75   | 1725628  | 10.770 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.90  | 75   | 2249340  | 11.705 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.68  | 97   | 1329846  | 9.098  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.52 | 129  | 2110786  | 10.801 | ppbv   | 100      |
| 49) Bromoform                 | 13.27 | 173  | 1753181  | 10.801 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.94  | 43   | 3979562  | 10.796 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.34 | 43   | 2821131  | 10.898 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.44 | 164  | 967976   | 10.323 | ppbv   | 99       |
| 53) Toluene                   | 10.01 | 91   | 3702198  | 10.622 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.83 | 107  | 1957207  | 10.424 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.35 | 131  | 1535858  | 8.153  | ppbv # | 59       |
| 57) Chlorobenzene             | 12.37 | 112  | 2774879  | 8.095  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.93 | 91   | 4938166  | 9.013  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.22 | 91   | 4004446  | 8.604  | ppbv # | 31       |
| 60) o-Xylene                  | 13.92 | 91   | 3960358  | 8.657  | ppbv   | 99       |
| 61) Styrene                   | 13.75 | 104  | 3040206  | 9.509  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.90 | 105  | 5598554  | 8.598  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.91 | 83   | 3012768  | 7.832  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.79 | 120  | 1469385  | 8.719  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.98 | 119  | 4768978  | 8.573  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.22 | 91   | 3191073  | 9.689  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.53 | 105  | 7222148  | 8.732  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.88 | 119  | 5735627  | 9.060  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.78 | 91   | 6274466  | 9.040  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.68 | 91   | 4476005  | 8.882  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 16.07 | 105  | 4643004  | 9.100  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.22 | 105  | 4426455  | 9.019  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.99 | 105  | 4511171  | 8.639  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.23 | 146  | 2553645  | 8.137  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.38 | 146  | 2569421  | 8.644  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 18.06 | 146  | 2476448  | 8.259  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.60 | 225  | 742525   | 7.377  | ppbv   | 99       |
| 79) Naphthalene               | 22.49 | 128  | 4110664  | 8.469  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.16 | 142  | 1585418  | 15.218 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 22.21 | 180  | 1944380  | 9.629  | ppbv   | 99       |

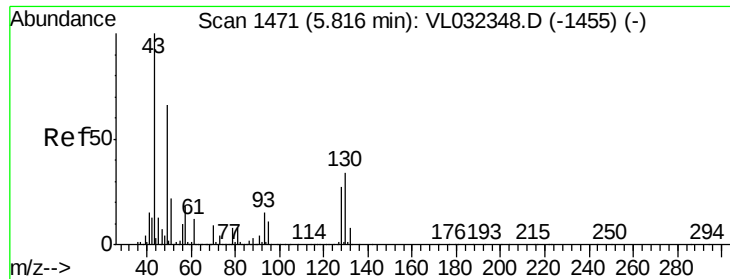
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 15 14:58:02 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

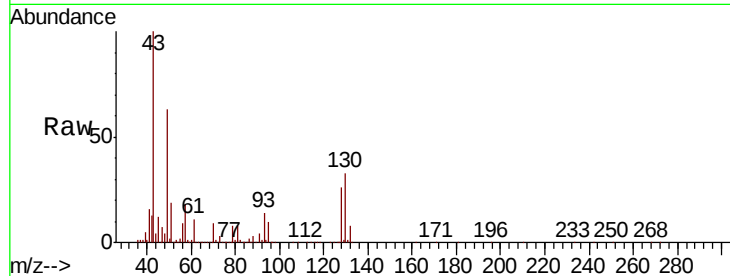
Tgt Ion: 49 Resp: 1782107

Ion Ratio Lower Upper

49 100

128 40.6 20.5 61.6

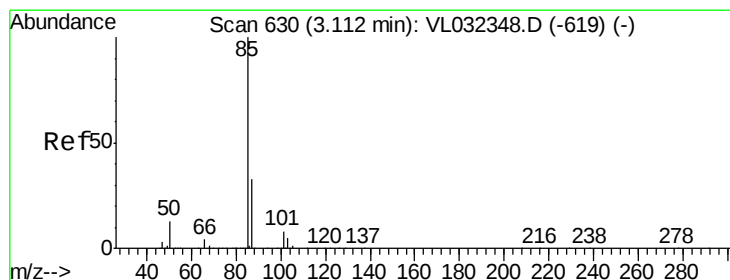
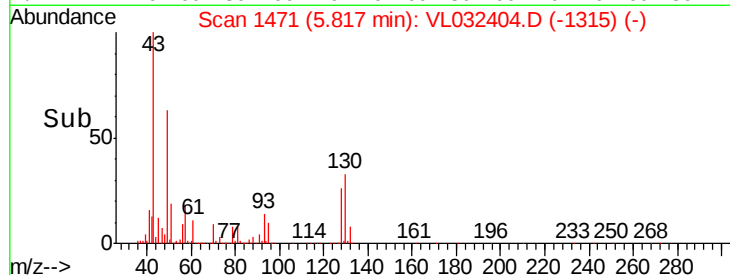
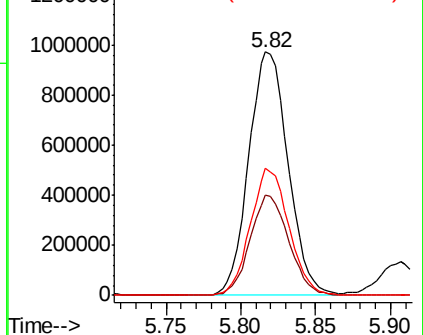
130 51.2 26.2 78.5



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: 13.266 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032404.D

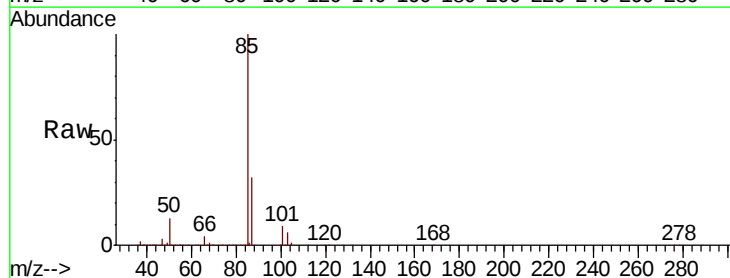
Acq: 17 Aug 2018 12:01

Tgt Ion: 85 Resp: 1879702

Ion Ratio Lower Upper

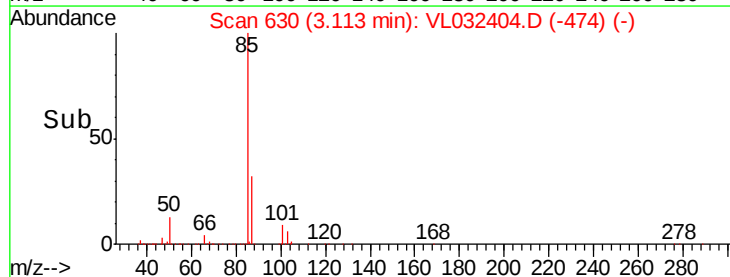
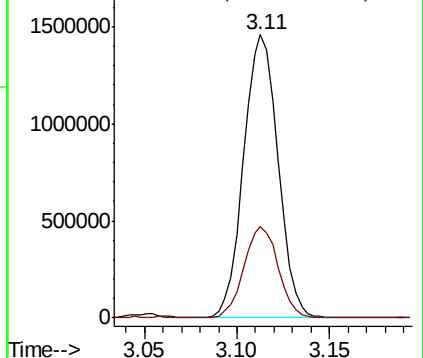
85 100

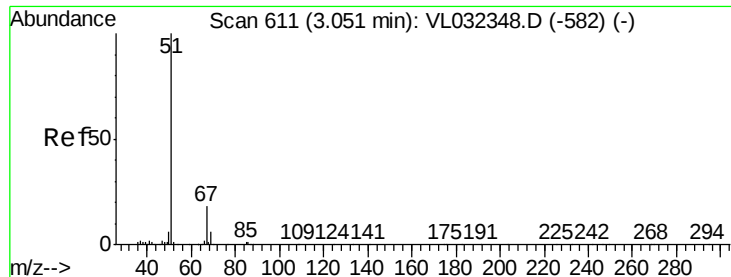
87 32.1 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.665 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

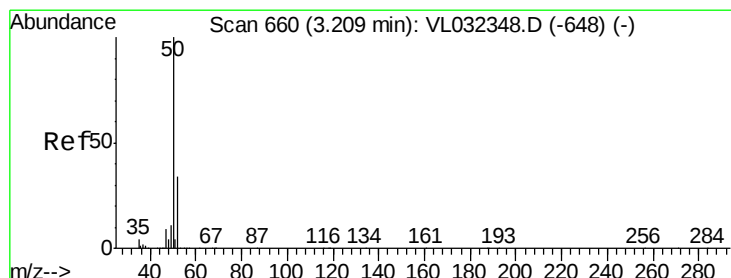
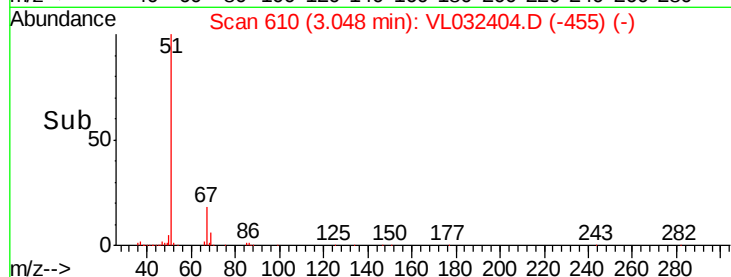
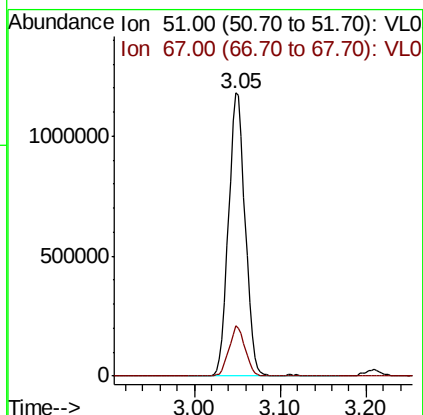
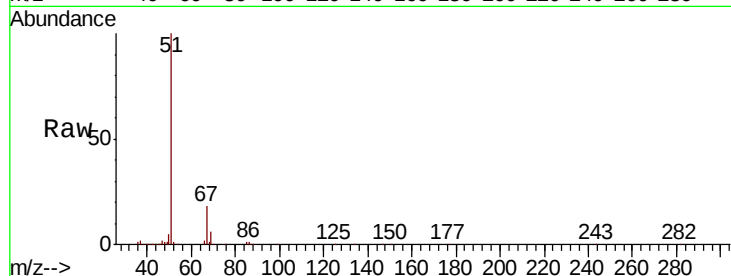
VSTDCCC010EC

Tgt Ion: 51 Resp: 1595556

Ion Ratio Lower Upper

51 100

67 17.2 13.7 20.5



#4

Chloromethane

Concen: 9.967 ppbv

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VL032404.D

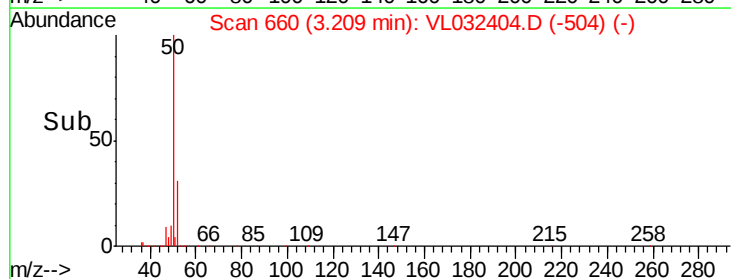
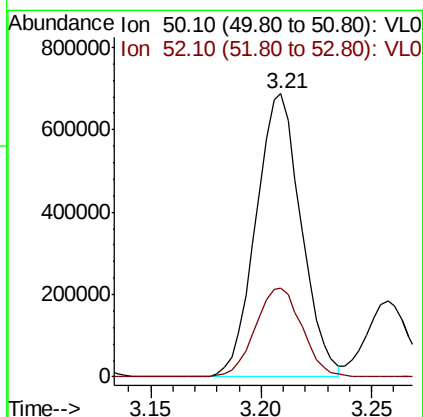
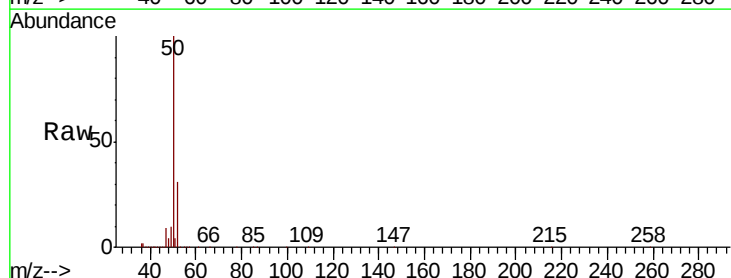
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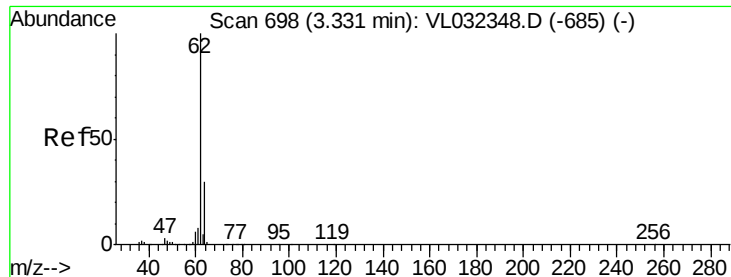
Tgt Ion: 50 Resp: 979279

Ion Ratio Lower Upper

50 100

52 31.3 26.8 40.2





#5

Vinyl Chloride

Concen: 9.935 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

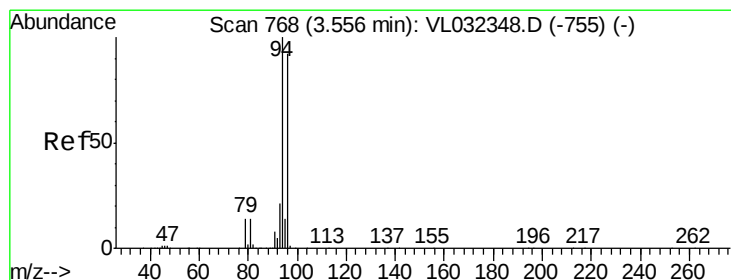
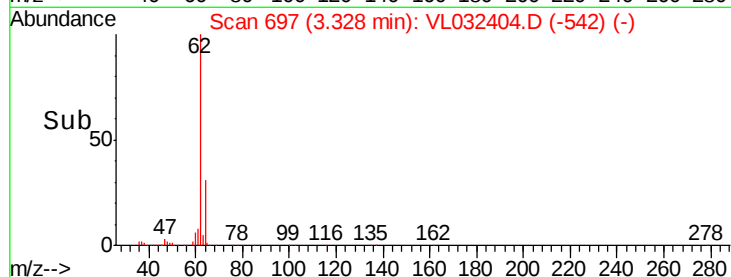
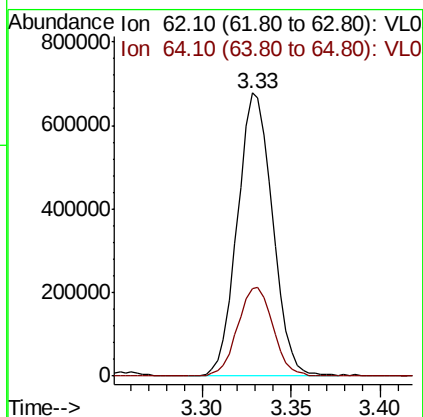
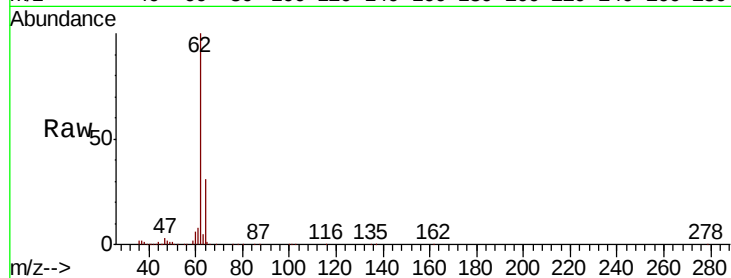
VSTDCCC010EC

Tgt Ion: 62 Resp: 930474

Ion Ratio Lower Upper

62 100

64 30.9 24.2 36.2



#6

Bromomethane

Concen: 10.470 ppbv

RT: 3.55 min Scan# 767

Delta R.T. -0.00 min

Lab File: VL032404.D

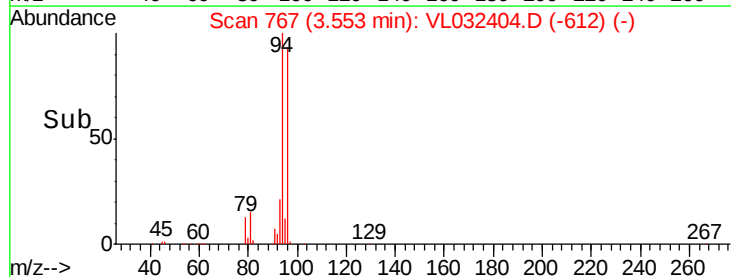
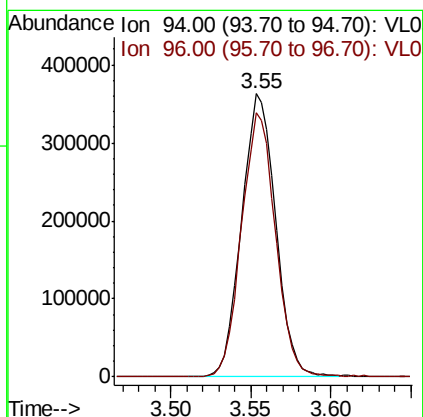
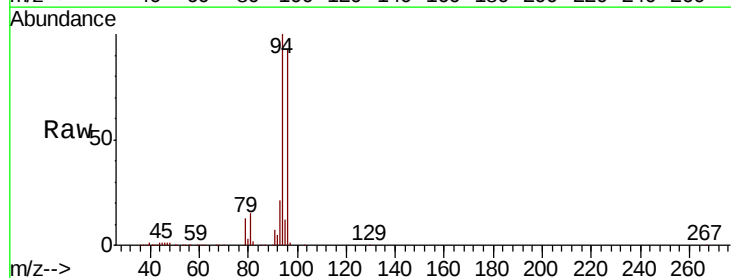
Acq: 17 Aug 2018 12:01

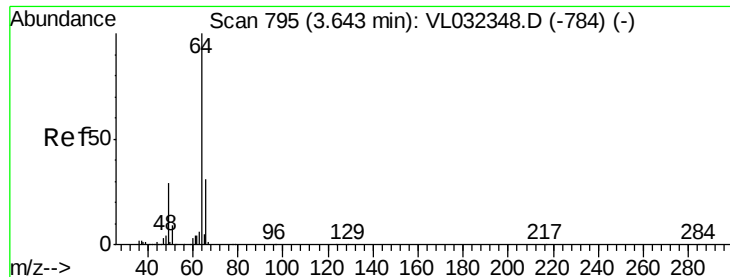
Tgt Ion: 94 Resp: 525732

Ion Ratio Lower Upper

94 100

96 93.5 73.7 110.5





#7

Chloroethane

Concen: 10.354 ppbv

RT: 3.64 min Scan# 795

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

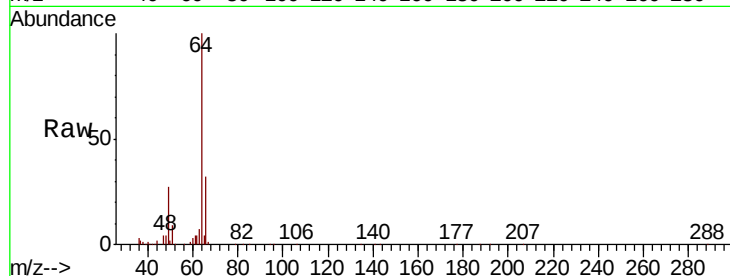
VSTDCCC010EC

Tgt Ion: 64 Resp: 340046

Ion Ratio Lower Upper

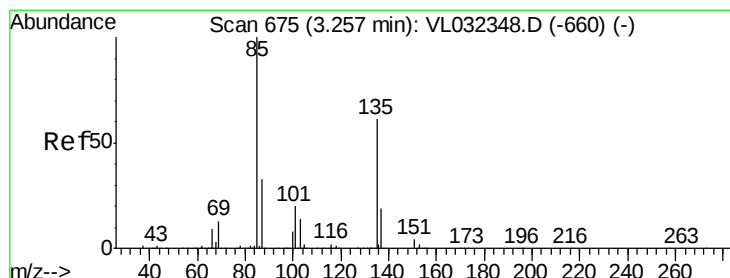
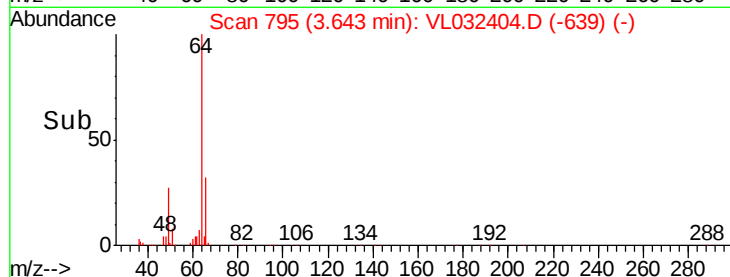
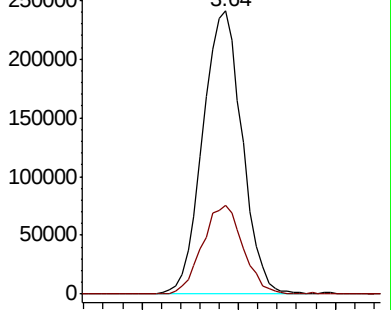
64 100

66 31.5 24.6 36.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.867 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL032404.D

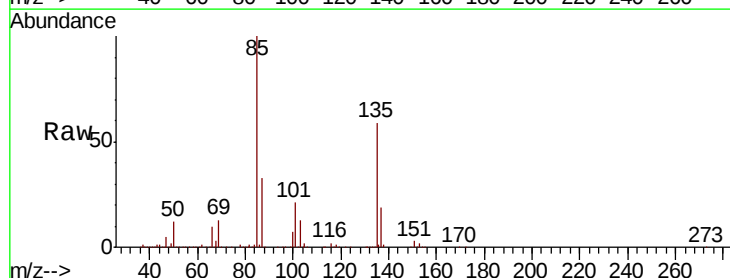
Acq: 17 Aug 2018 12:01

Tgt Ion: 85 Resp: 1987030

Ion Ratio Lower Upper

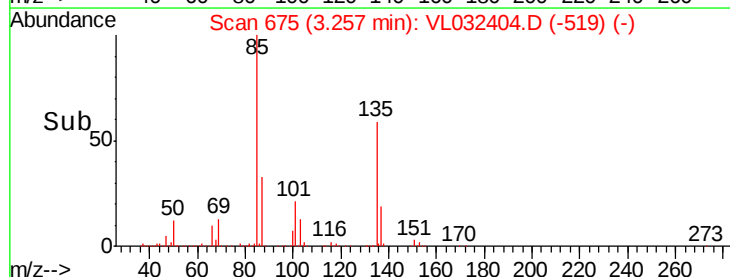
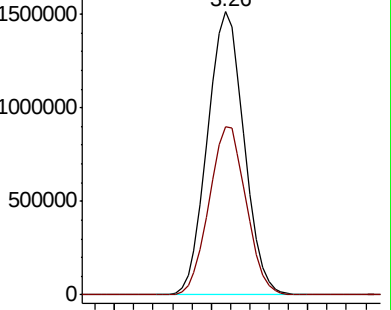
85 100

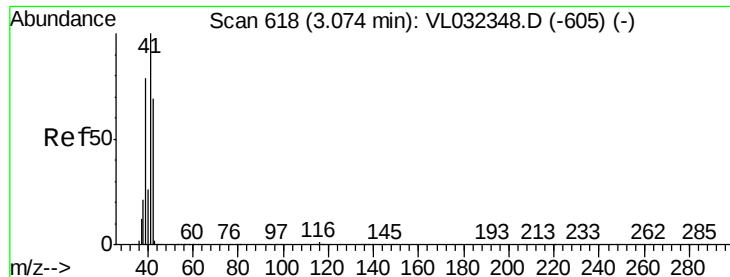
135 60.4 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.128 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

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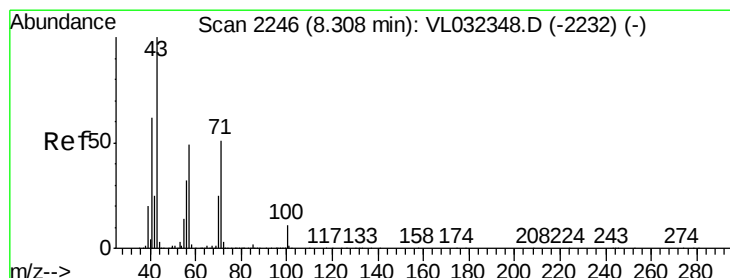
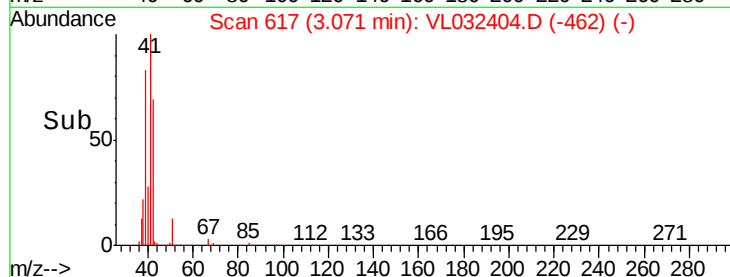
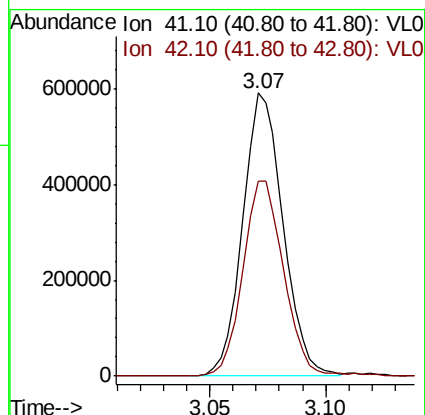
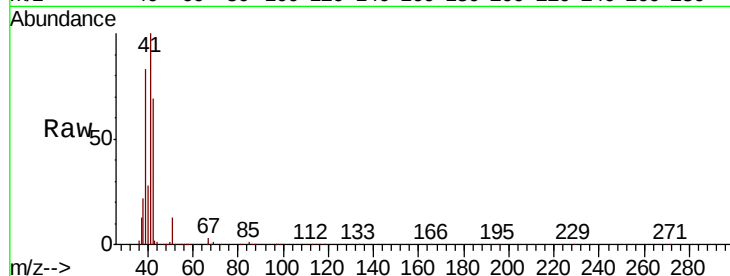
VSTDCCC010EC

Tgt Ion: 41 Resp: 715605

Ion Ratio Lower Upper

41 100

42 70.6 55.9 83.9



#10

Heptane

Concen: 12.113 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. 0.00 min

Lab File: VL032404.D

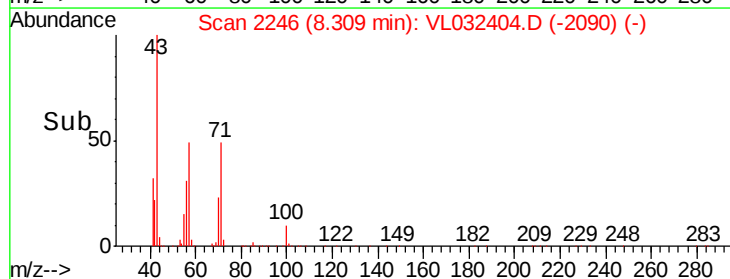
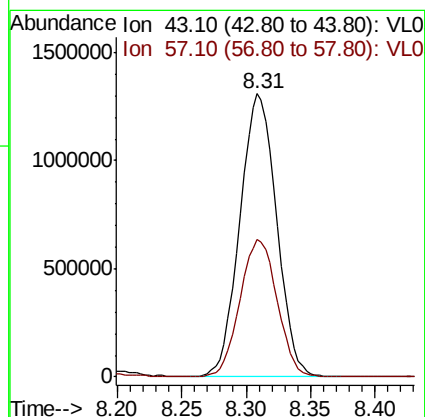
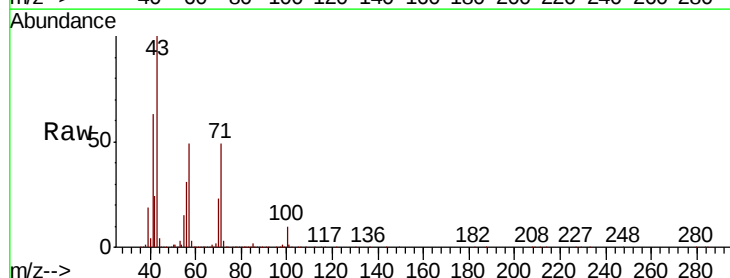
Acq: 17 Aug 2018 12:01

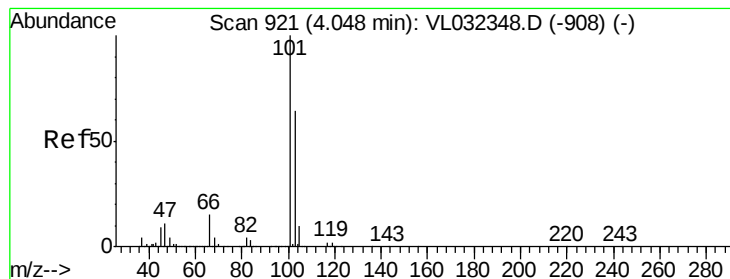
Tgt Ion: 43 Resp: 2577691

Ion Ratio Lower Upper

43 100

57 49.4 39.5 59.3





#11

Trichlorofluoromethane

Concen: 10.037 ppbv

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

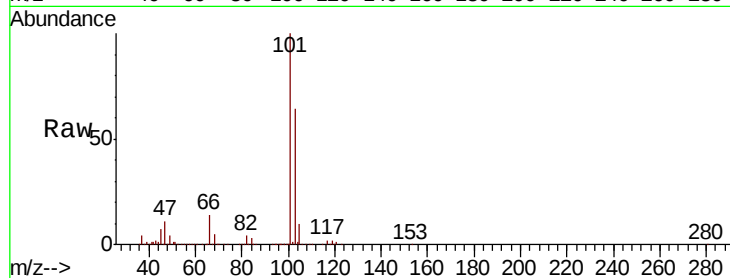
VSTDCCC010EC

Tgt Ion:101 Resp: 2000617

Ion Ratio Lower Upper

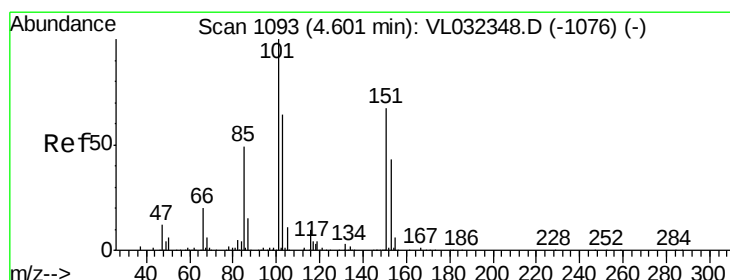
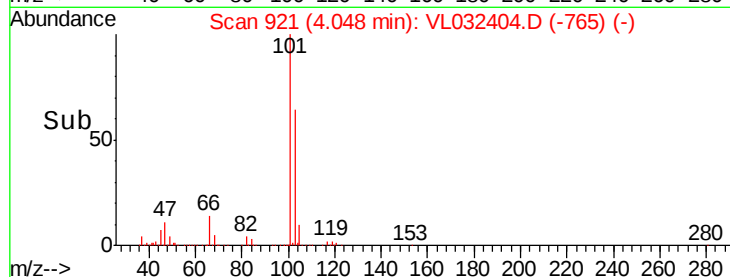
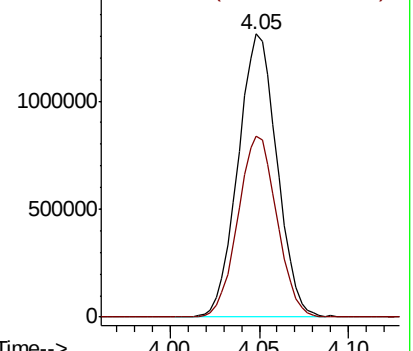
101 100

103 64.1 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

1500000 Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.863 ppbv

RT: 4.60 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VL032404.D

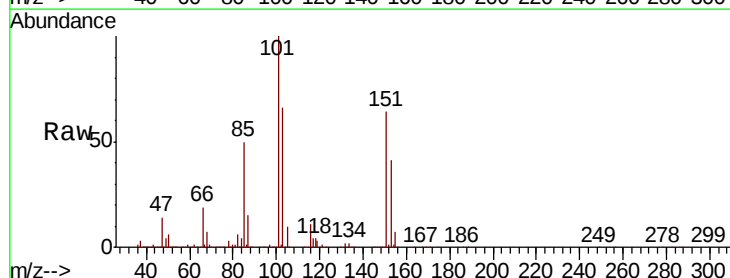
Acq: 17 Aug 2018 12:01

Tgt Ion:101 Resp: 1323730

Ion Ratio Lower Upper

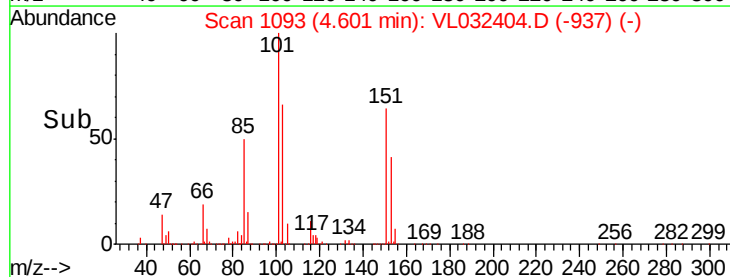
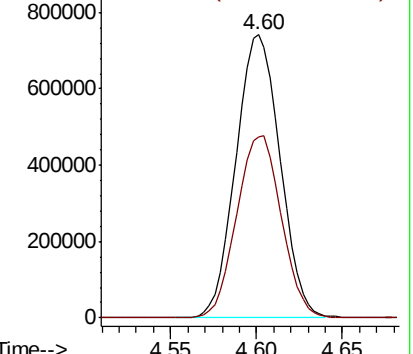
101 100

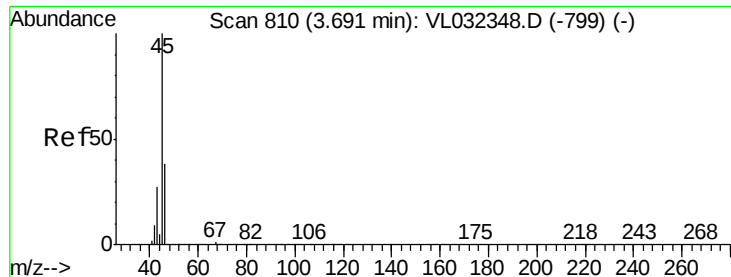
151 65.2 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

800000 Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 11.015 ppbv

RT: 3.69 min Scan# 810

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

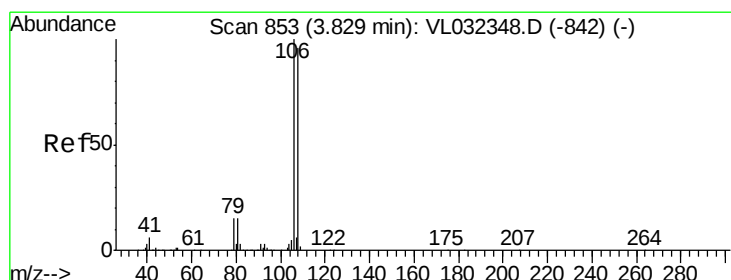
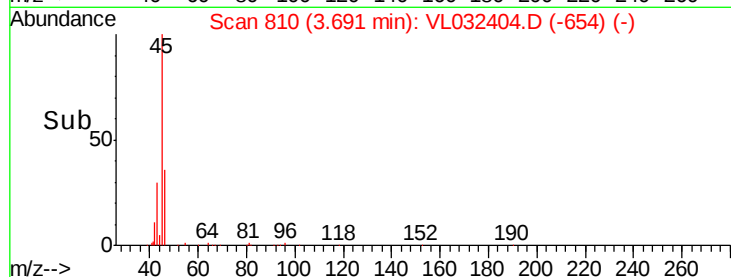
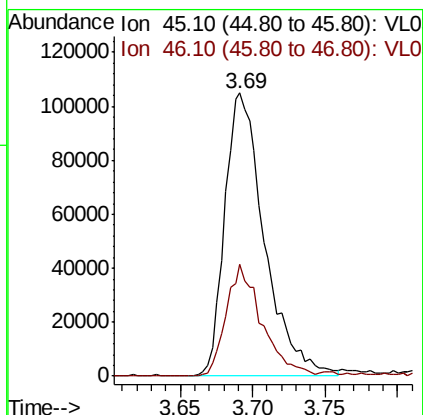
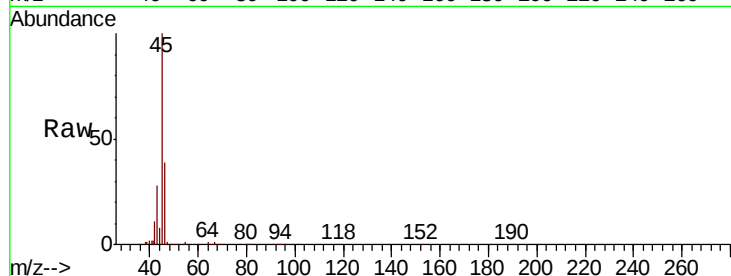
VSTDCCC010EC

Tgt Ion: 45 Resp: 199877

Ion Ratio Lower Upper

45 100

46 37.6 15.6 62.4



#14

Bromoethene

Concen: 10.624 ppbv

RT: 3.83 min Scan# 853

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

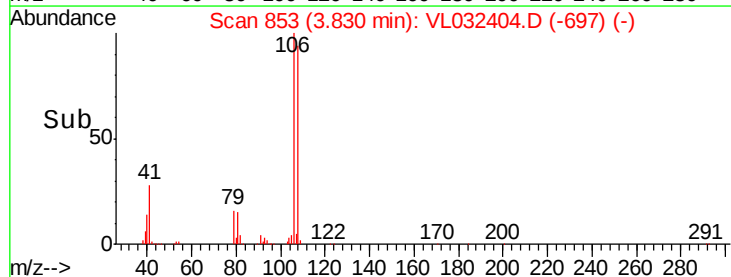
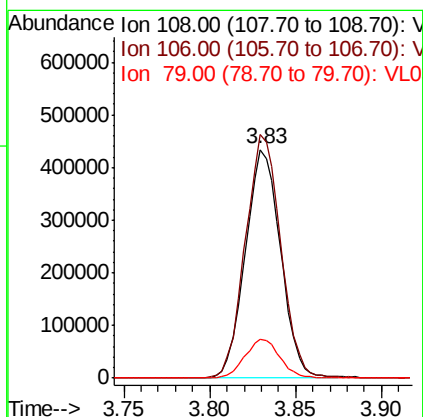
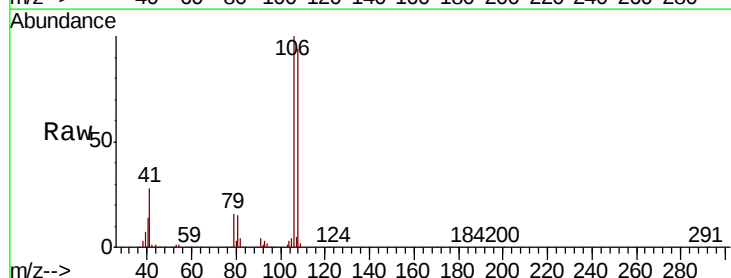
Tgt Ion: 108 Resp: 616695

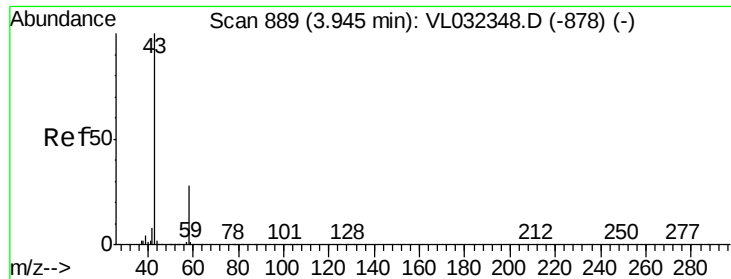
Ion Ratio Lower Upper

108 100

106 107.4 85.7 128.5

79 17.4 13.1 19.7





#15

Acetone

Concen: 9.349 ppbv

RT: 3.95 min Scan# 889

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

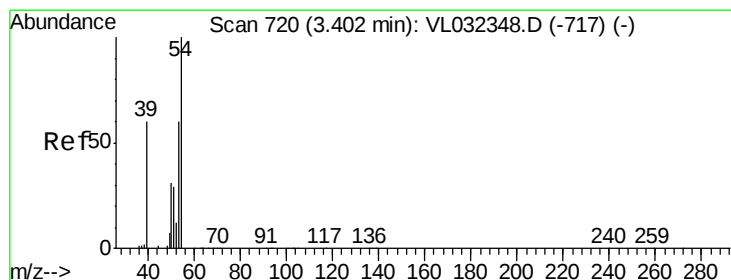
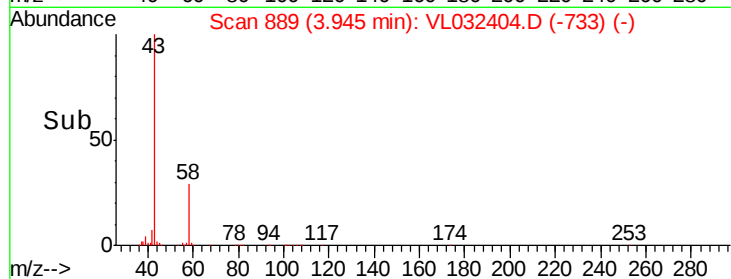
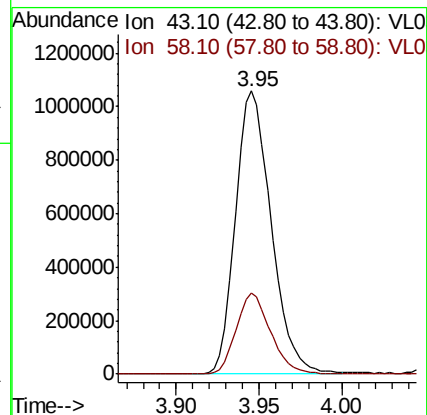
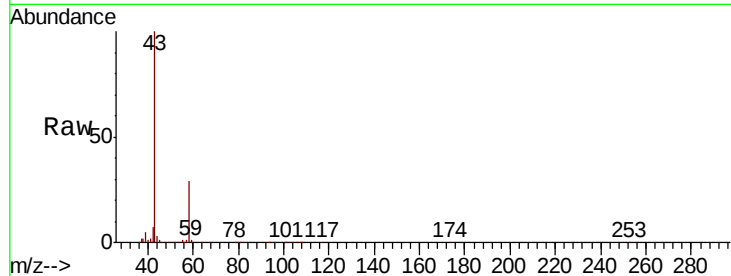
VSTDCCC010EC

Tgt Ion: 43 Resp: 1582949

Ion Ratio Lower Upper

43 100

58 27.9 22.4 33.6



#16

1,3-Butadiene

Concen: 11.127 ppbv

RT: 3.40 min Scan# 720

Delta R.T. 0.00 min

Lab File: VL032404.D

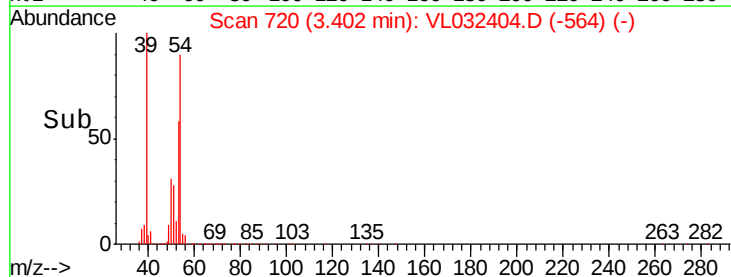
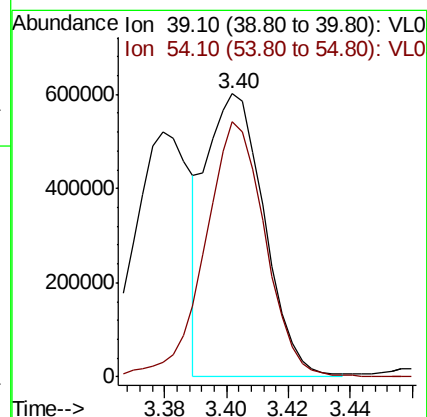
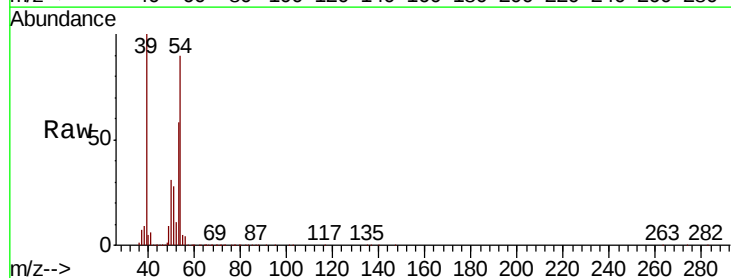
Acq: 17 Aug 2018 12:01

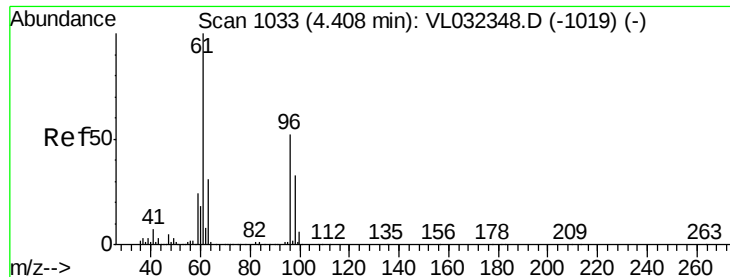
Tgt Ion: 39 Resp: 777853

Ion Ratio Lower Upper

39 100

54 94.7 85.5 128.3





#17

tert-Butyl alcohol

Concen: 10.427 ppbv

RT: 4.41 min Scan# 1032

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

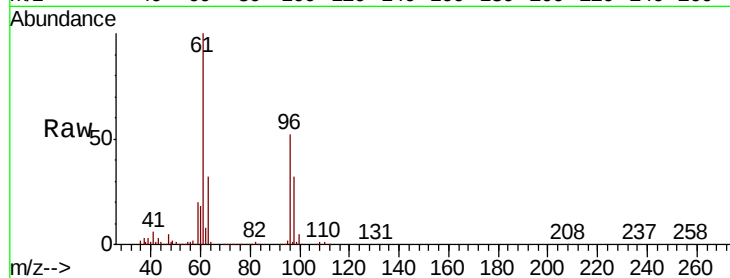
VSTDCCC010EC

Tgt Ion: 59 Resp: 296245

Ion Ratio Lower Upper

59 100

57 9.5 7.6 11.4



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.41

150000

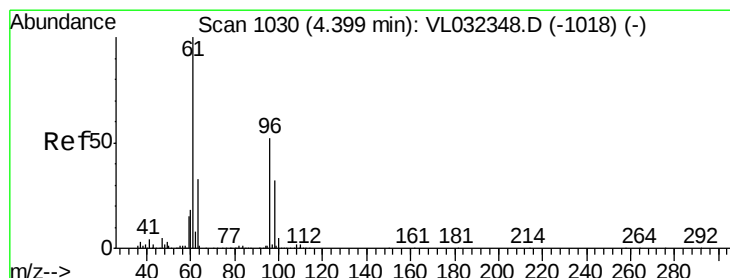
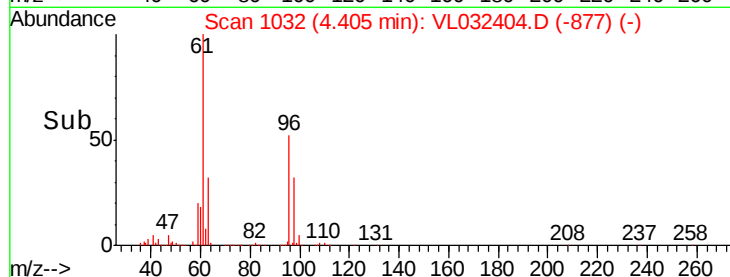
100000

50000

0

4.35 4.40 4.45

Time-->



#18

1,1-Dichloroethene

Concen: 10.284 ppbv

RT: 4.40 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

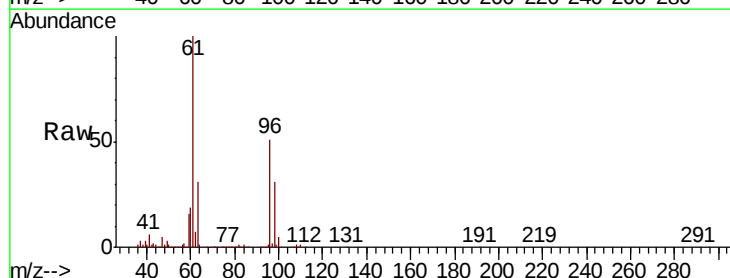
Tgt Ion: 96 Resp: 643136

Ion Ratio Lower Upper

96 100

61 194.7 154.6 231.8

98 59.8 50.1 75.1



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

1000000

800000

600000

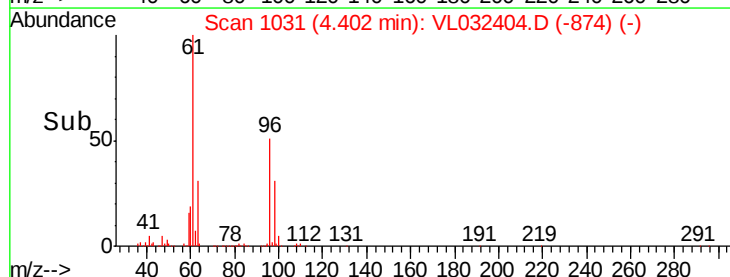
400000

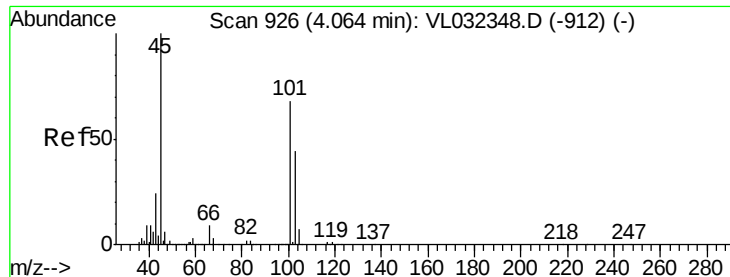
200000

0

4.35 4.40 4.45

Time-->





#19

Isopropyl Alcohol

Concen: 10.574 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

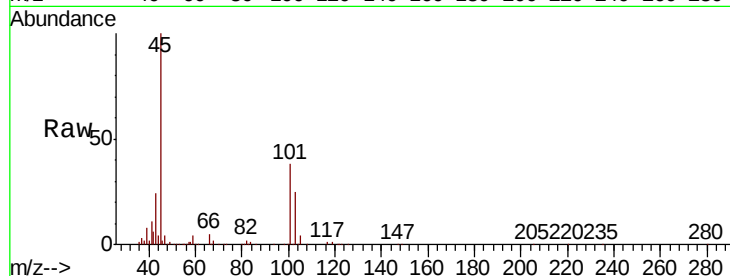
VSTDCCC010EC

Tgt Ion: 45 Resp: 1205569

Ion Ratio Lower Upper

45 100

58 2.3 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.07

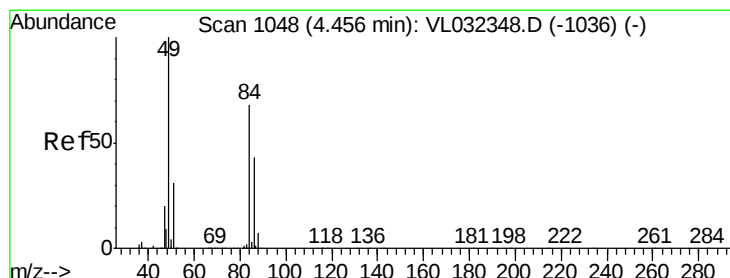
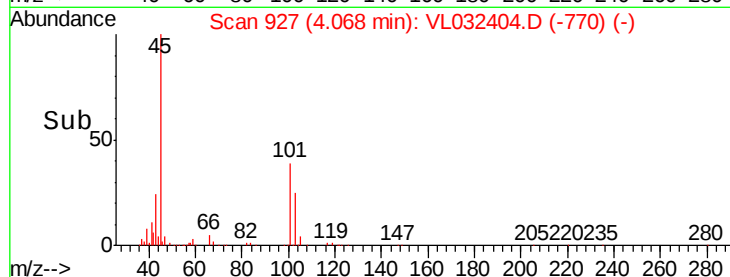
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.935 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Tgt Ion: 84 Resp: 571341

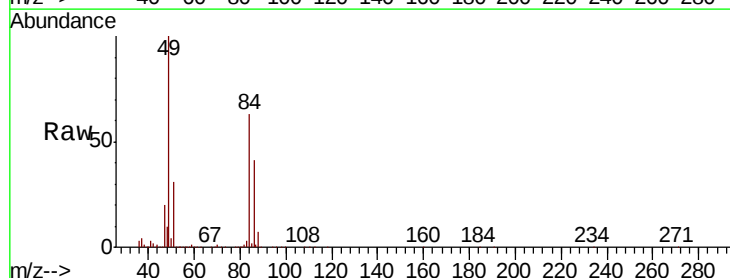
Ion Ratio Lower Upper

84 100

49 157.4 117.3 175.9

51 48.8 36.6 55.0

86 64.3 49.8 74.8



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

800000

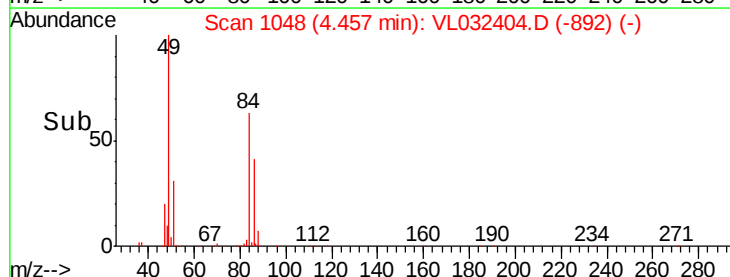
600000

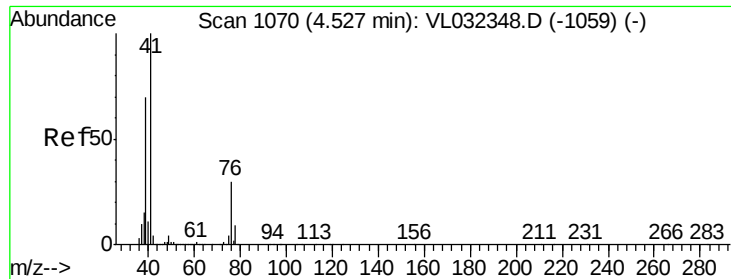
400000

200000

0

Time-->

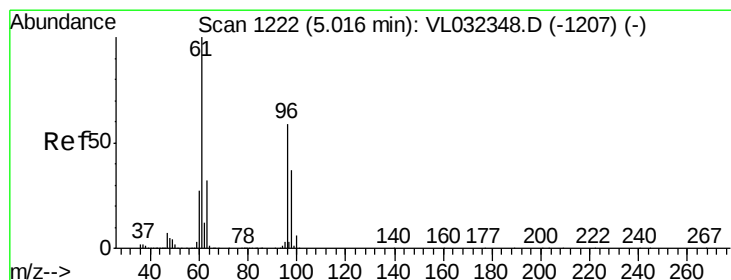
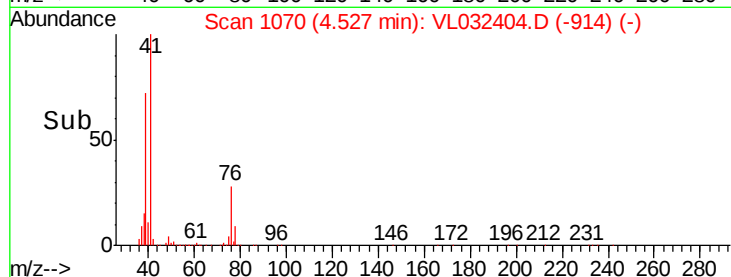
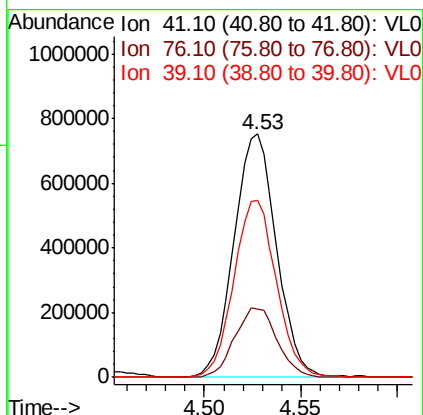
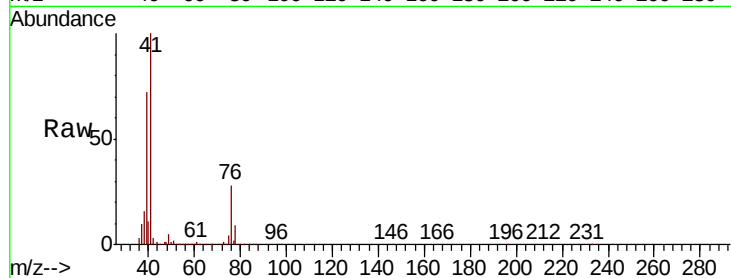




#21  
 Allyl Chloride  
 Concen: 10.644 ppbv  
 RT: 4.53 min Scan# 1070  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

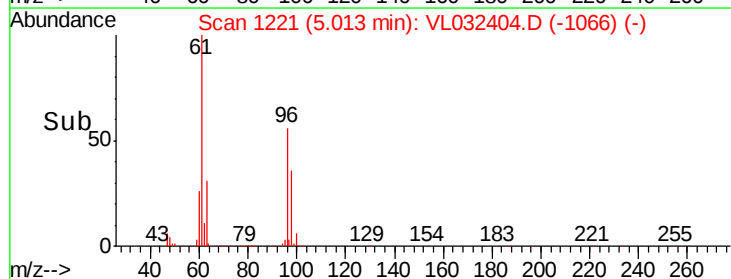
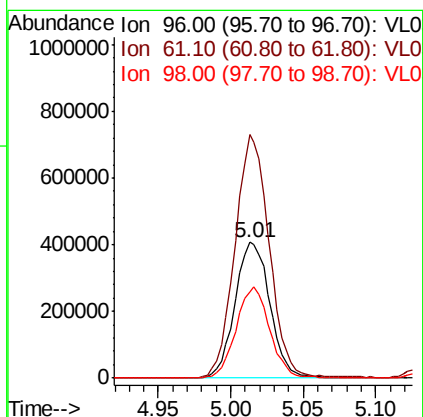
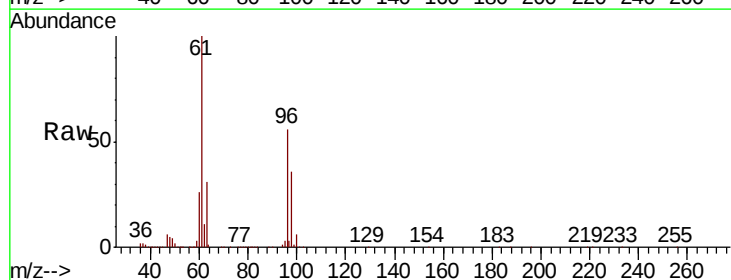
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

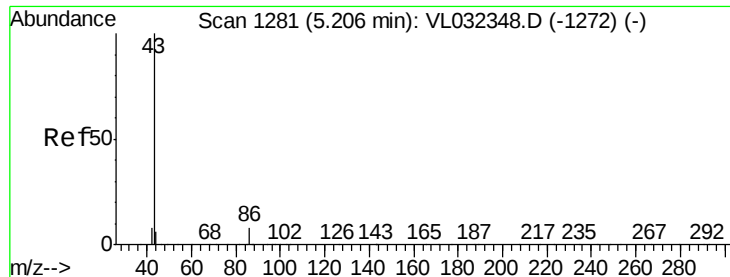
Tgt Ion: 41 Resp: 1137490  
 Ion Ratio Lower Upper  
 41 100  
 76 29.0 22.9 34.3  
 39 73.7 57.6 86.4



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.822 ppbv  
 RT: 5.01 min Scan# 1221  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 96 Resp: 682462  
 Ion Ratio Lower Upper  
 96 100  
 61 179.0 136.6 205.0  
 98 63.6 50.6 76.0



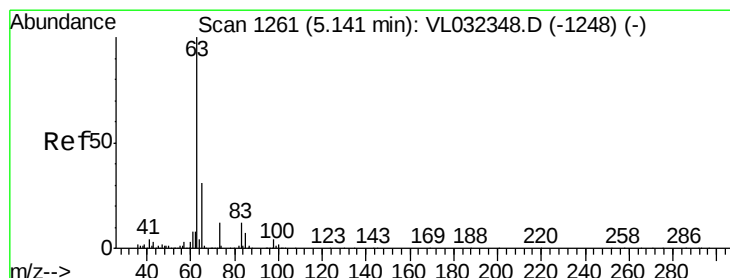
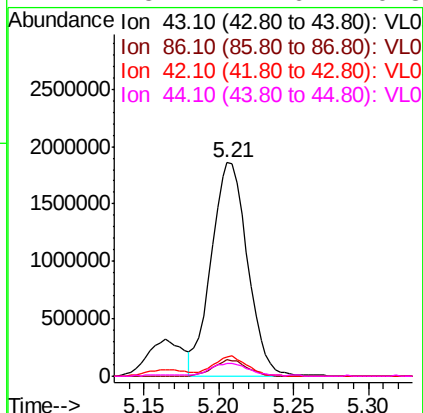
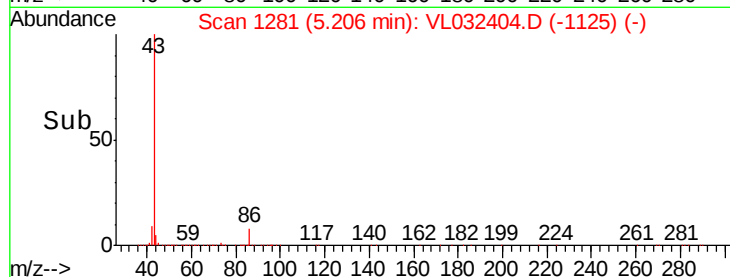
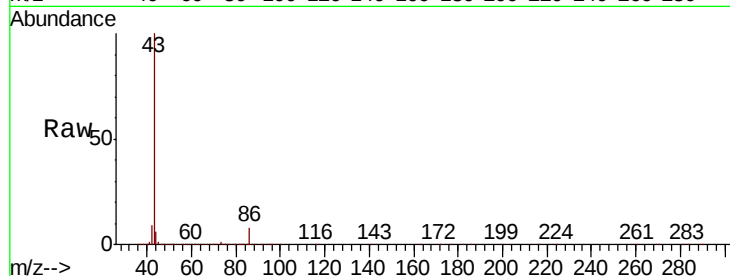


#23  
 Vinyl Acetate  
 Concen: 10.686 ppbv  
 RT: 5.21 min Scan# 1281  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion: 43 Resp: 3124341

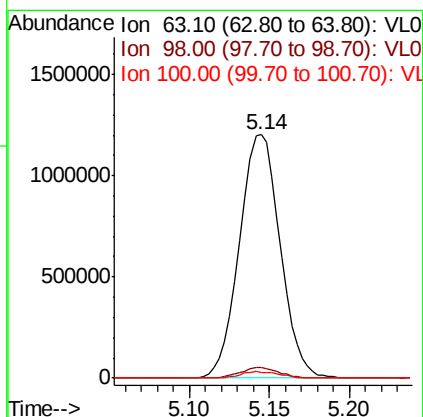
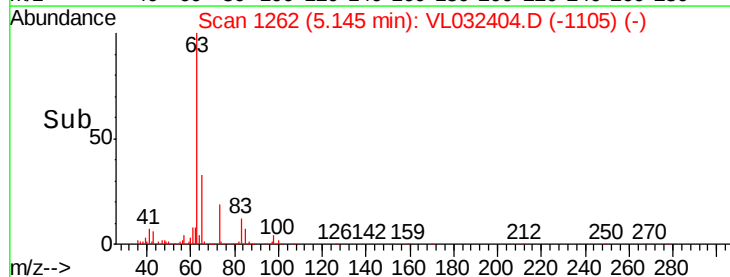
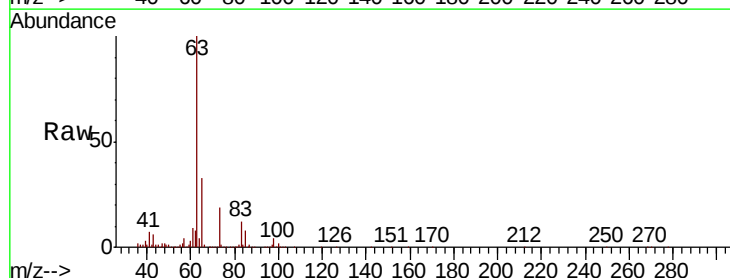
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.9   | 5.5   | 8.3   |
| 42  | 8.9   | 7.0   | 10.6  |
| 44  | 5.7   | 4.6   | 6.8   |

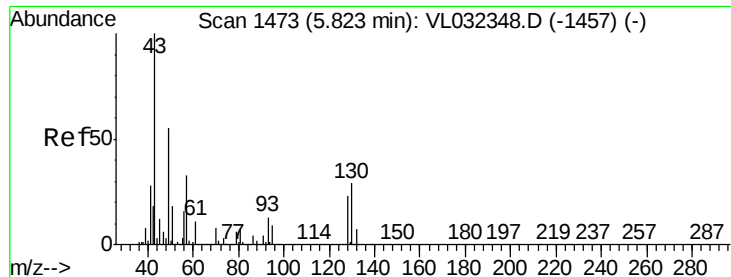


#24  
 1,1-Dichloroethane  
 Concen: 9.856 ppbv  
 RT: 5.14 min Scan# 1262  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 63 Resp: 2080613

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.2   | 2.1   | 6.3   |
| 100 | 2.1   | 1.2   | 3.6   |



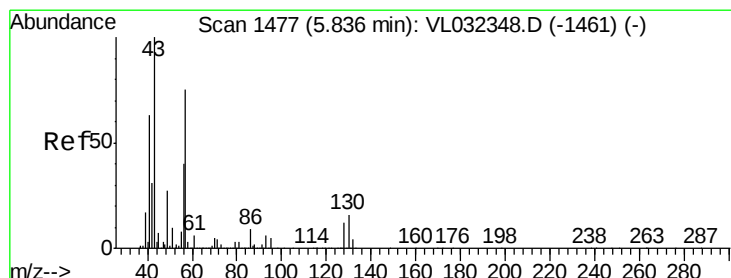
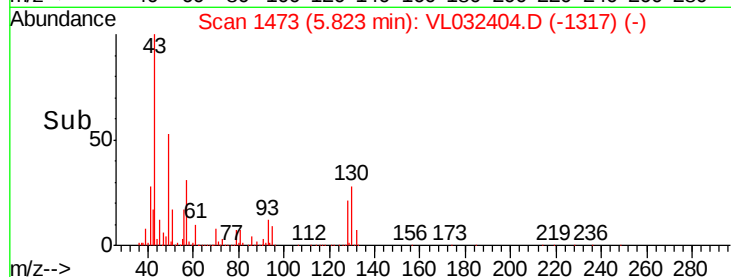
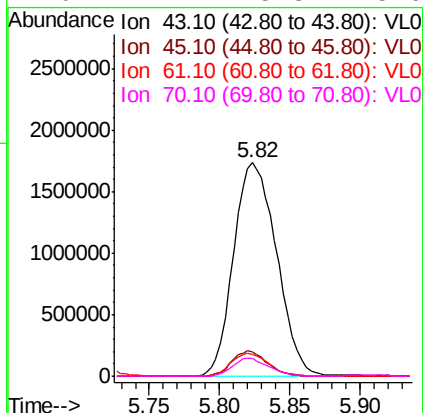
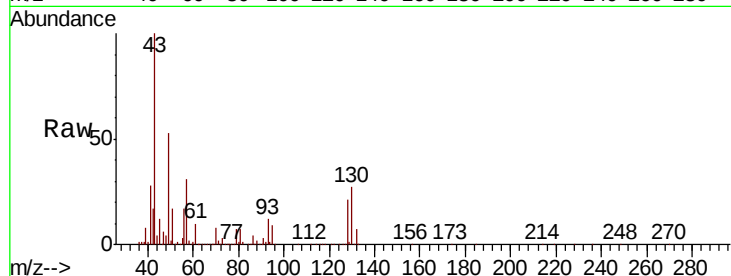


#25  
Ethyl Acetate  
Concen: 10.179 ppbv  
RT: 5.82 min Scan# 1473  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 43 Resp: 3693483

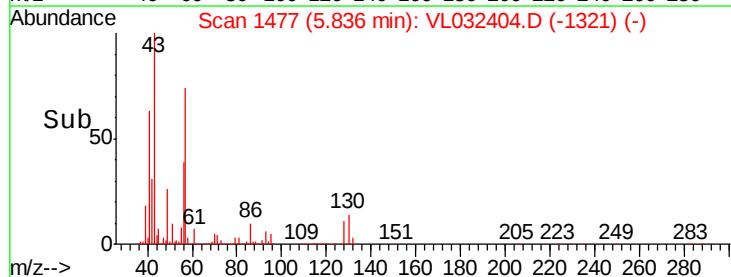
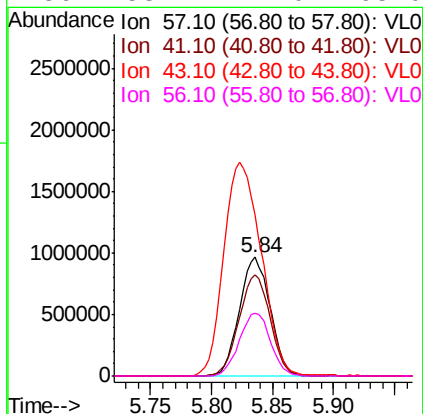
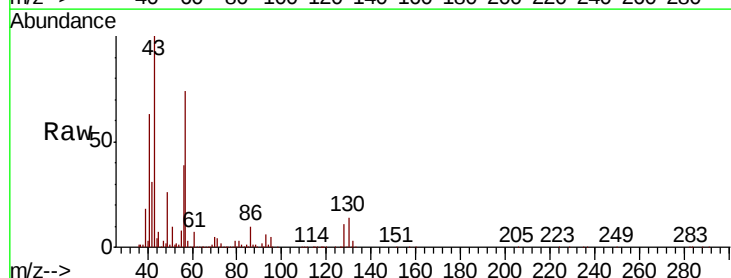
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.1  | 7.9   | 11.9  |
| 61  | 9.4   | 7.4   | 11.2  |
| 70  | 7.1   | 5.8   | 8.6   |

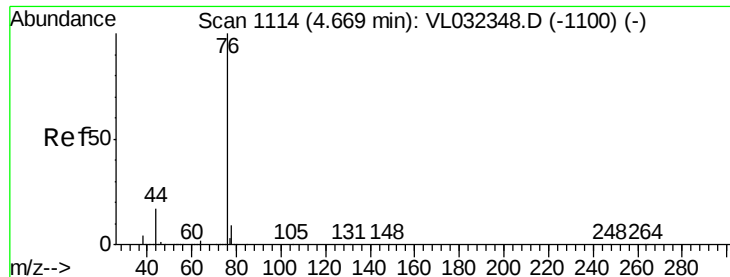


#26  
Hexane  
Concen: 10.342 ppbv  
RT: 5.84 min Scan# 1477  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion: 57 Resp: 1672994

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 86.2  | 68.0  | 102.0 |
| 43  | 222.1 | 175.3 | 262.9 |
| 56  | 53.7  | 42.0  | 63.0  |

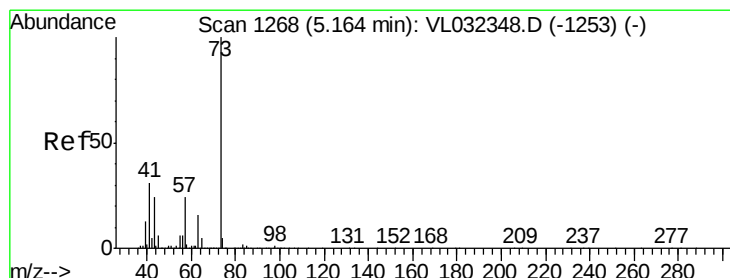
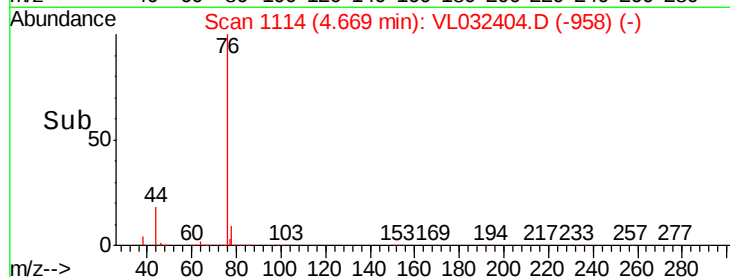
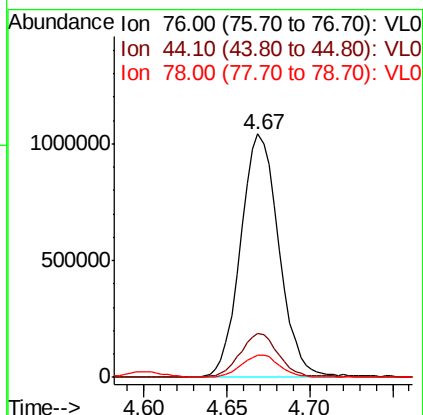
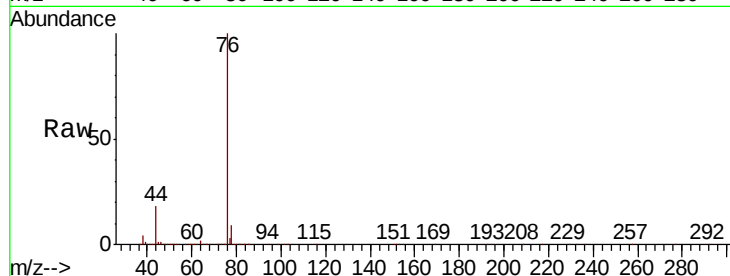




#27  
Carbon Disulfide  
Concen: 11.082 ppbv  
RT: 4.67 min Scan# 1114  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

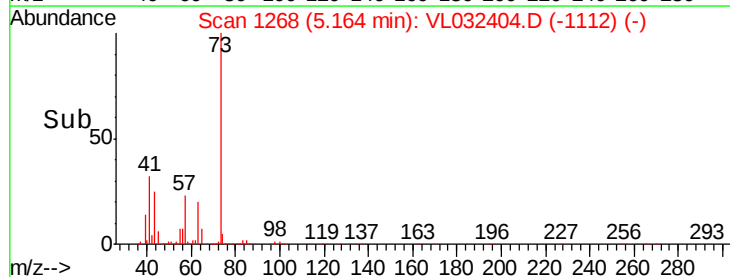
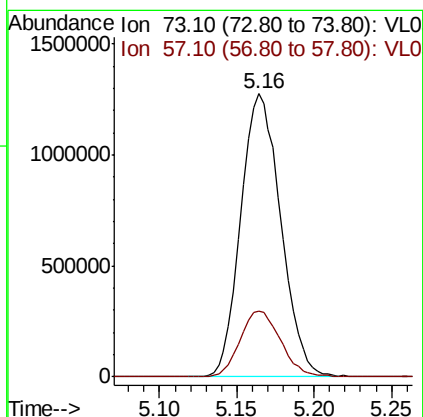
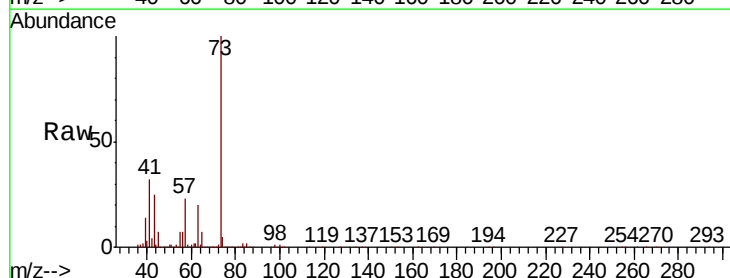
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

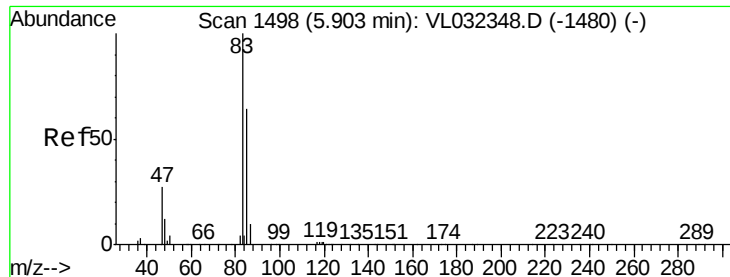
Tgt Ion: 76 Resp: 1673145  
Ion Ratio Lower Upper  
76 100  
44 18.0 14.4 21.6  
78 9.1 7.4 11.0



#28  
Methyl tert-Butyl Ether  
Concen: 10.704 ppbv  
RT: 5.16 min Scan# 1268  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion: 73 Resp: 2297898  
Ion Ratio Lower Upper  
73 100  
57 23.6 19.3 28.9





#29

Chloroform

Concen: 10.479 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

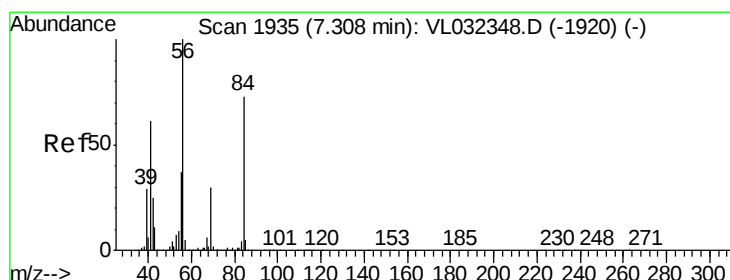
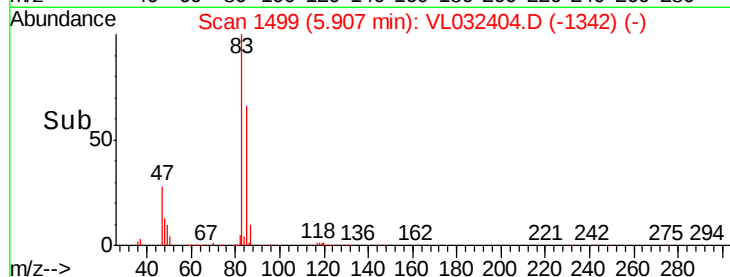
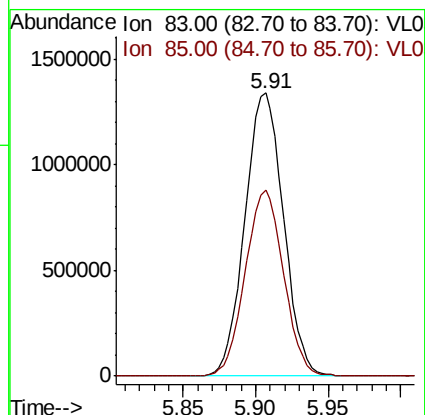
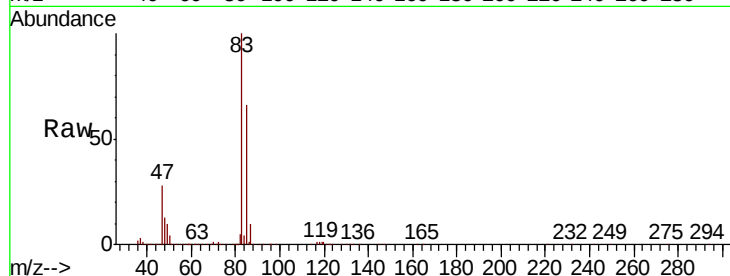
VSTDCCC010EC

Tgt Ion: 83 Resp: 2484182

Ion Ratio Lower Upper

83 100

85 65.7 51.6 77.4



#30

Cyclohexane

Concen: 11.261 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

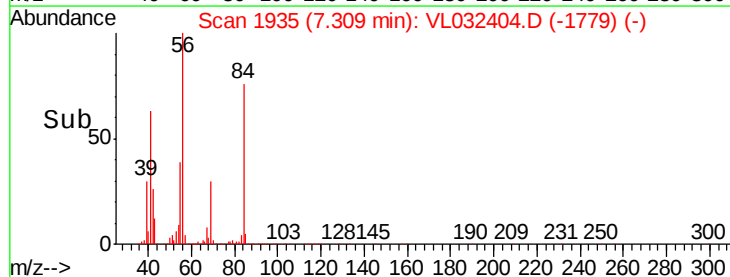
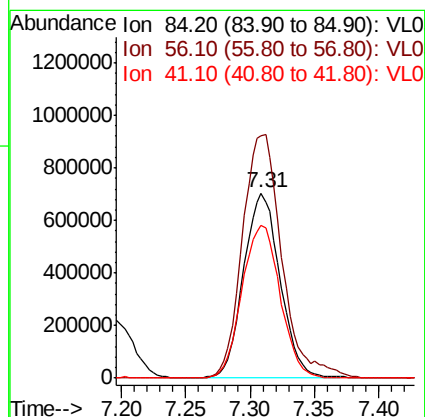
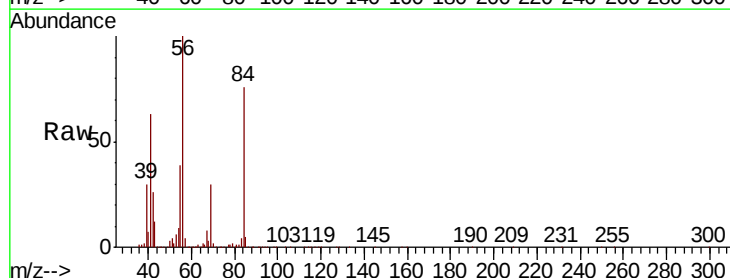
Tgt Ion: 84 Resp: 1387579

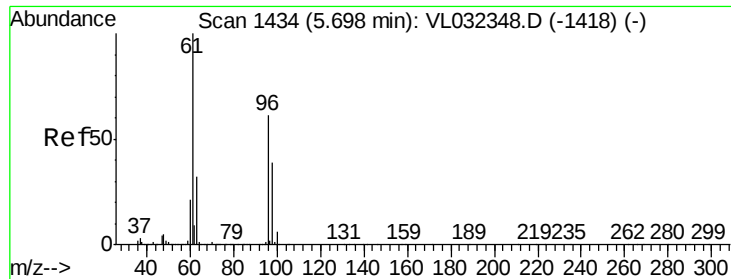
Ion Ratio Lower Upper

84 100

56 143.0 115.7 173.5

41 86.5 67.9 101.9

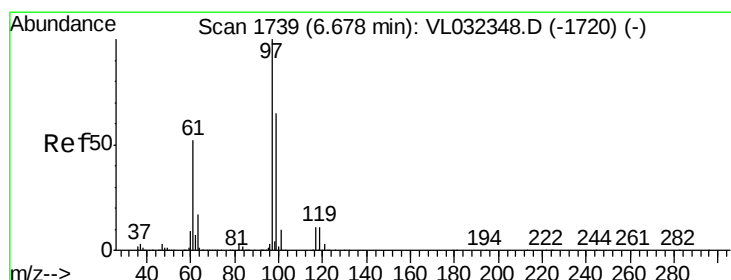
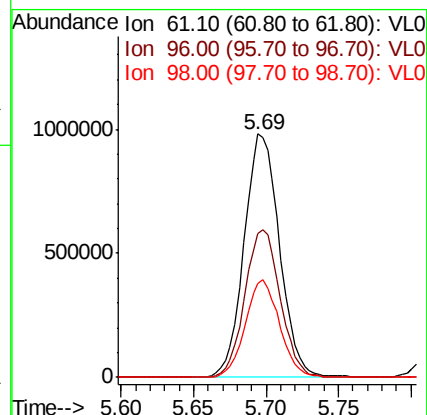
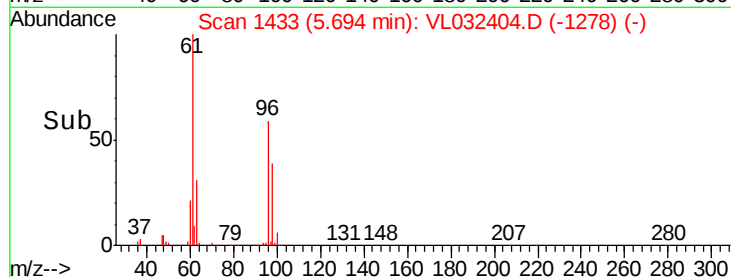
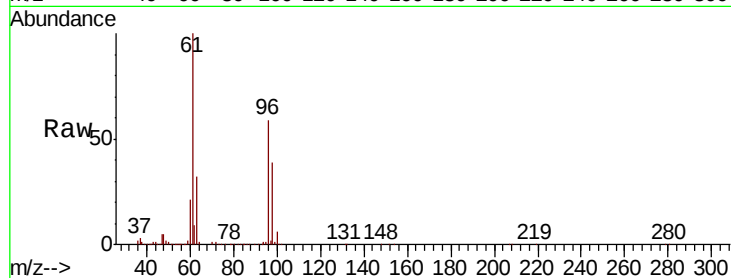




#31  
 cis-1,2-Dichloroethene  
 Concen: 10.518 ppbv  
 RT: 5.69 min Scan# 1433  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

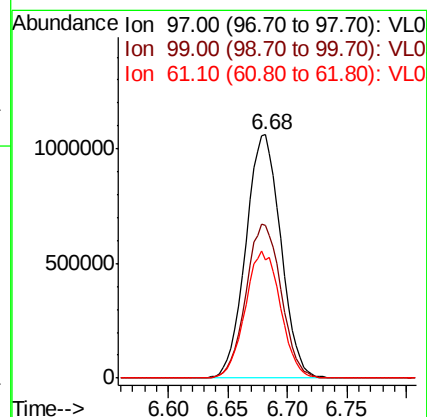
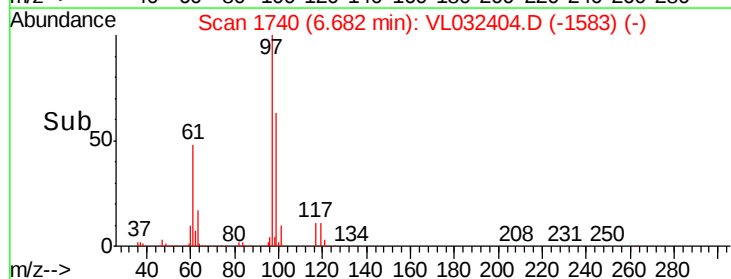
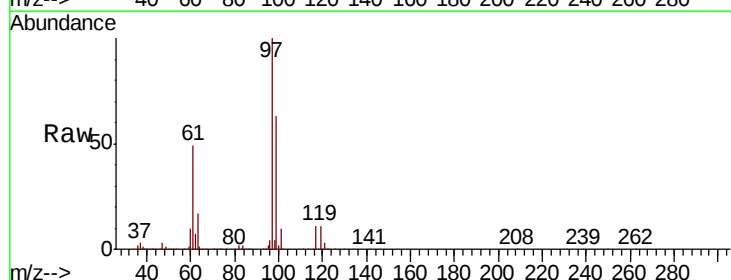
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

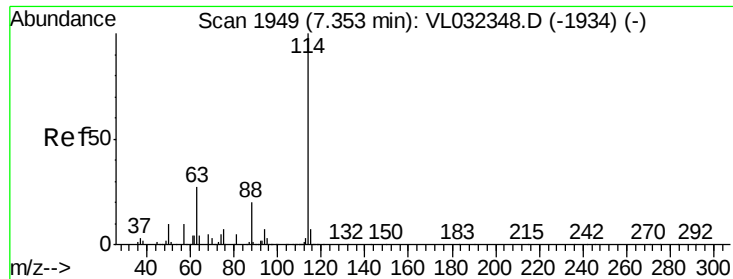
Tgt Ion: 61 Resp: 1664576  
 Ion Ratio Lower Upper  
 61 100  
 96 59.3 48.5 72.7  
 98 38.8 31.0 46.4



#32  
 1,1,1-Trichloroethane  
 Concen: 9.371 ppbv  
 RT: 6.68 min Scan# 1740  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 97 Resp: 2161916  
 Ion Ratio Lower Upper  
 97 100  
 99 64.0 51.1 76.7  
 61 52.7 41.1 61.7

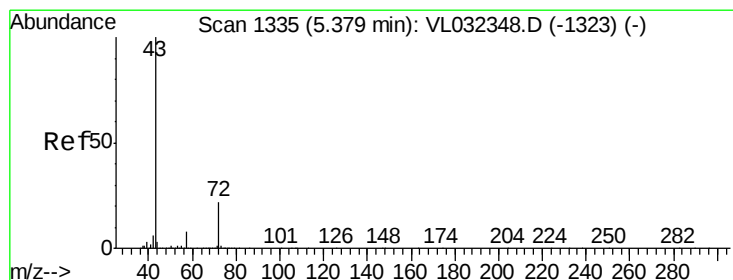
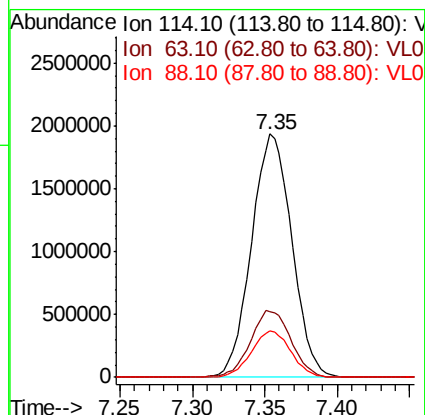
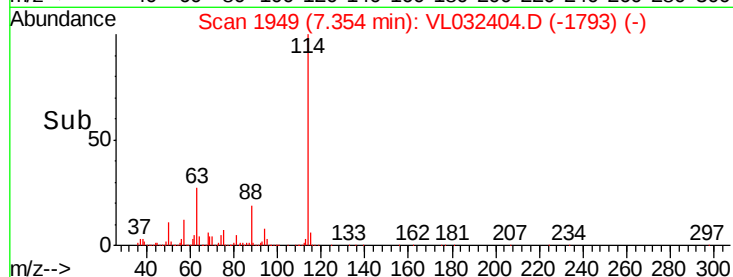
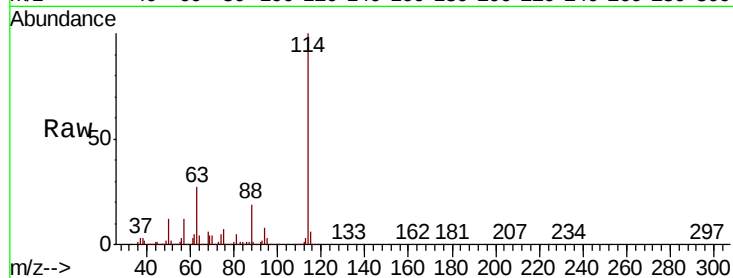




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.35 min Scan# 1949  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

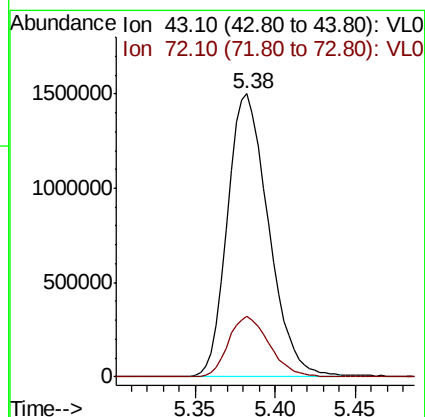
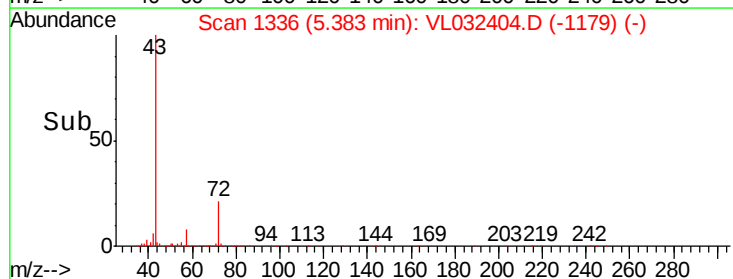
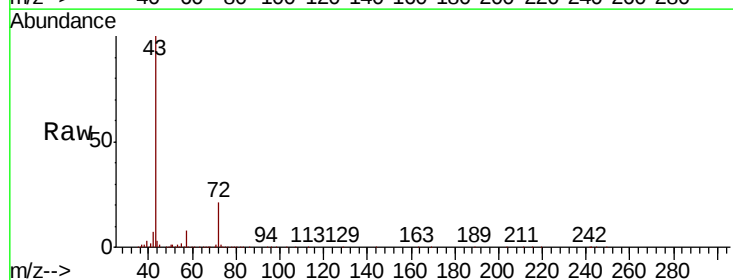
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

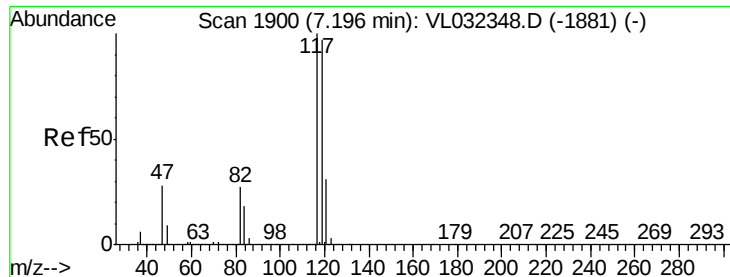
Tgt Ion:114 Resp: 3750253  
 Ion Ratio Lower Upper  
 114 100  
 63 28.0 22.0 33.0  
 88 18.7 15.3 22.9



#34  
 2-Butanone  
 Concen: 10.245 ppbv  
 RT: 5.38 min Scan# 1336  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 43 Resp: 2615052  
 Ion Ratio Lower Upper  
 43 100  
 72 21.5 17.9 26.9





#35

Carbon Tetrachloride

Concen: 10.870 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

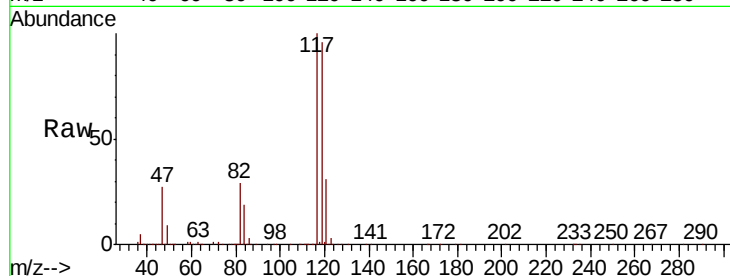
Tgt Ion: 117 Resp: 2403608

Ion Ratio Lower Upper

117 100

119 96.2 77.2 115.8

121 30.9 25.1 37.7

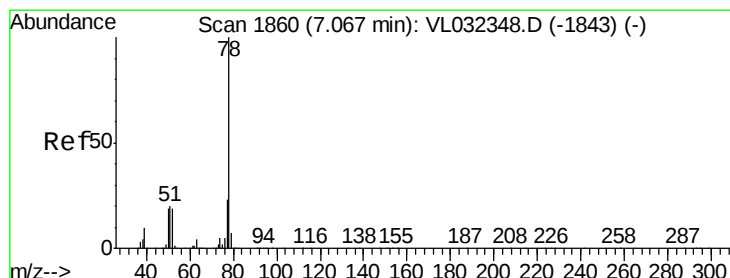
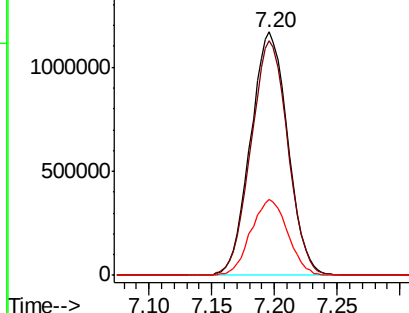
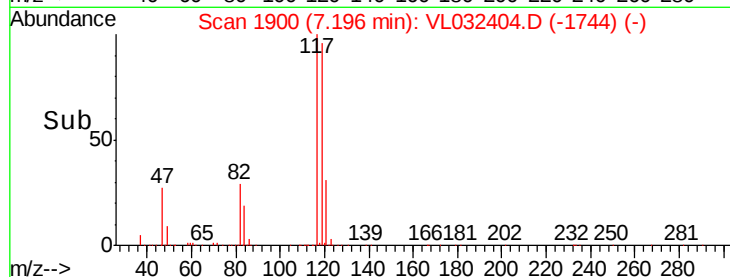


Abundance

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: 10.631 ppbv

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

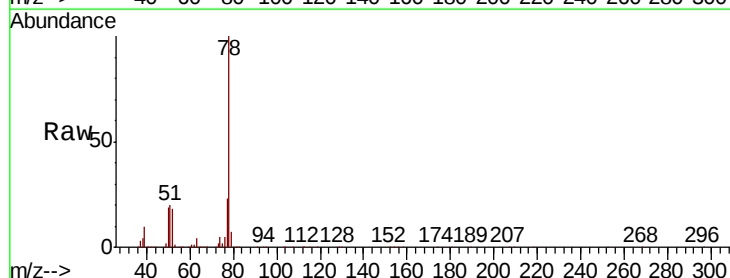
Tgt Ion: 78 Resp: 3380025

Ion Ratio Lower Upper

78 100

77 22.9 18.0 27.0

50 18.6 15.1 22.7

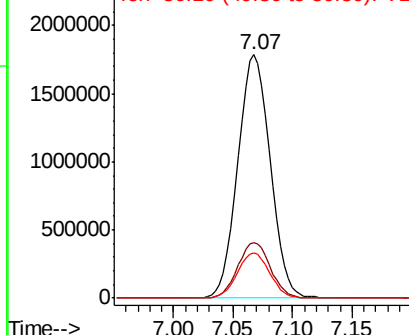
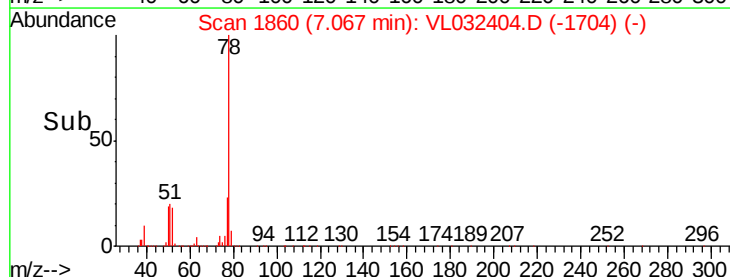


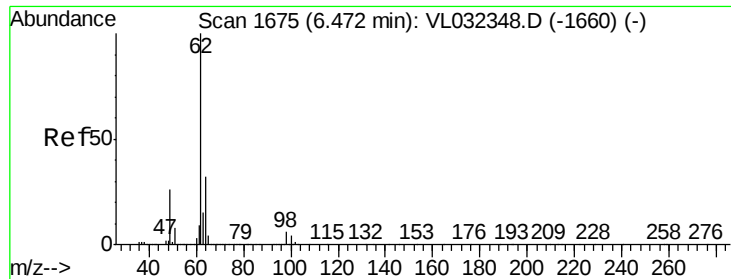
Abundance

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

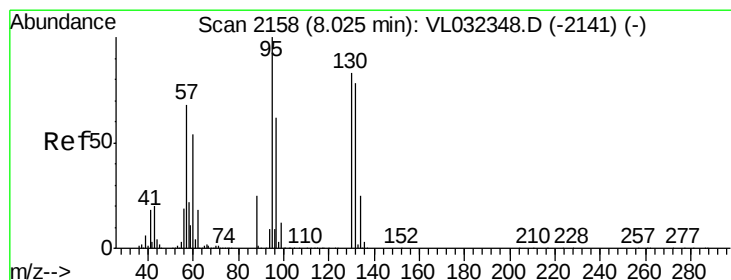
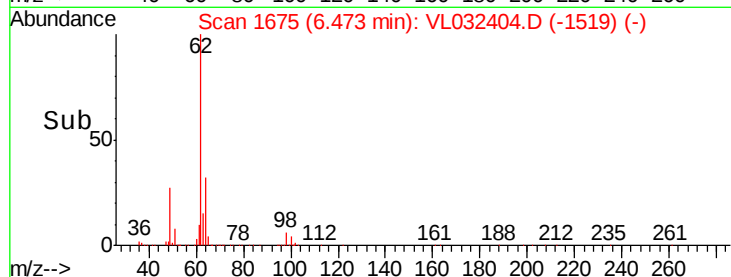
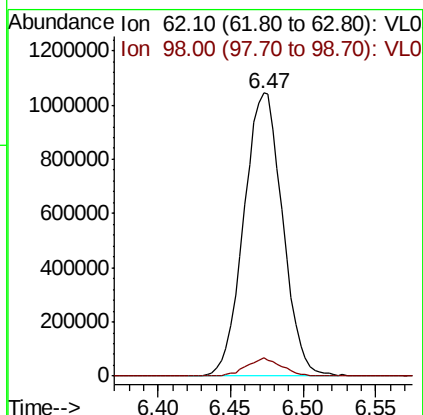
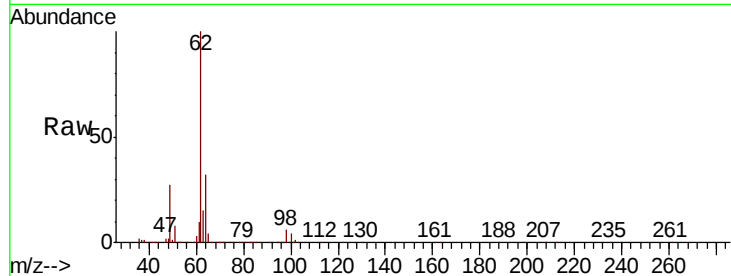




#37  
 1,2-Dichloroethane  
 Concen: 10.060 ppbv  
 RT: 6.47 min Scan# 1675  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

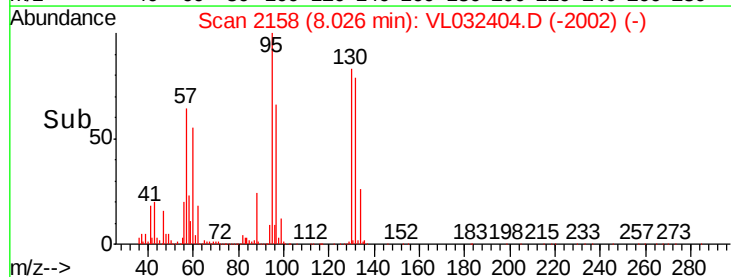
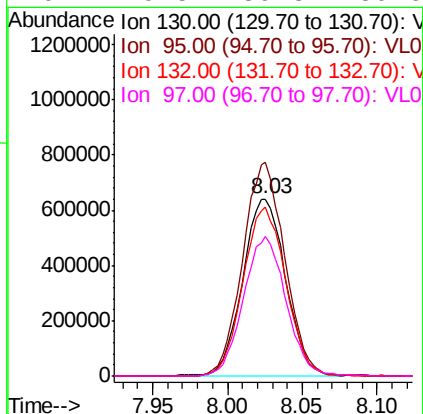
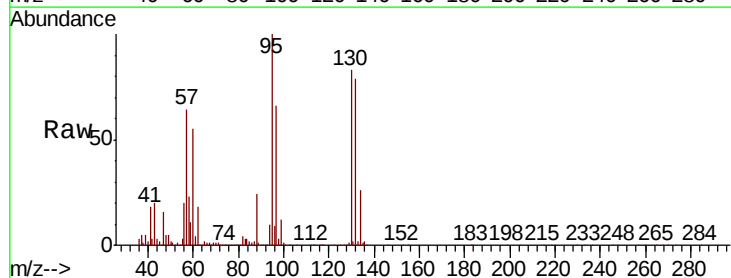
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

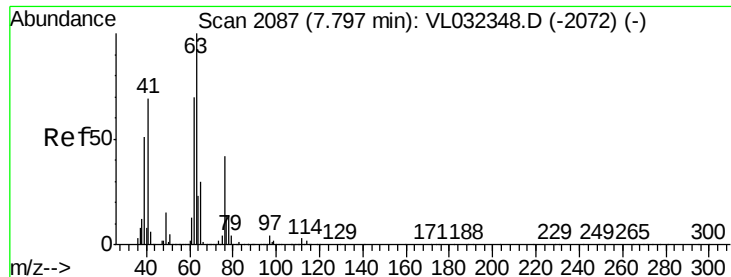
Tgt Ion: 62 Resp: 1940609  
 Ion Ratio Lower Upper  
 62 100  
 98 5.9 5.0 7.6



#38  
 Trichloroethene  
 Concen: 11.362 ppbv  
 RT: 8.03 min Scan# 2158  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 130 Resp: 1267048  
 Ion Ratio Lower Upper  
 130 100  
 95 121.1 96.6 144.8  
 132 95.7 75.5 113.3  
 97 79.5 59.8 89.6





#39

1,2-Dichloropropane

Concen: 10.137 ppbv

RT: 7.80 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

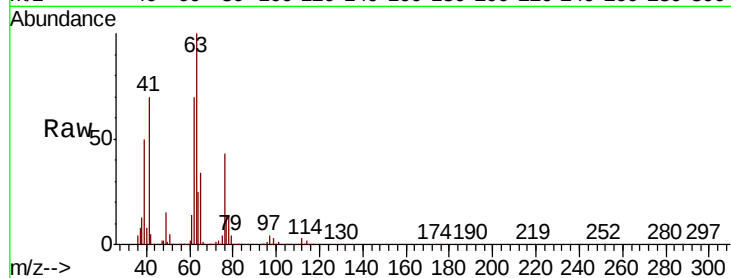
Tgt Ion: 63 Resp: 1346320

Ion Ratio Lower Upper

63 100

41 70.5 55.5 83.3

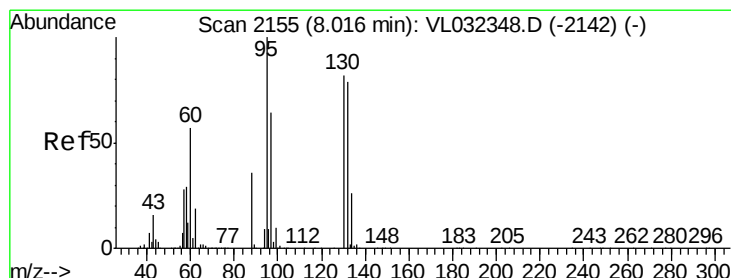
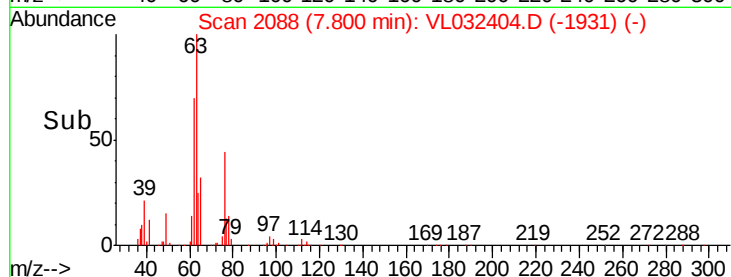
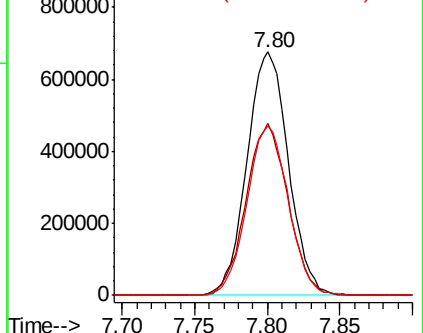
62 69.7 56.3 84.5



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: 12.215 ppbv

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Tgt Ion: 88 Resp: 492787

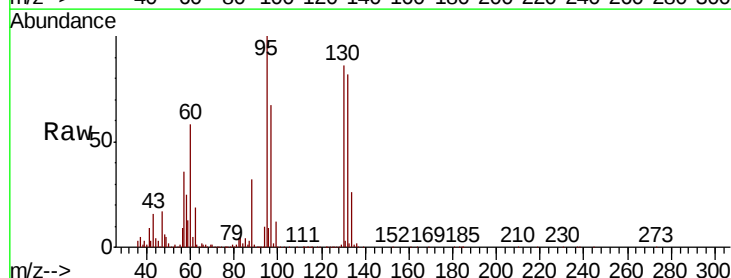
Ion Ratio Lower Upper

88 100

58 144.6 113.7 170.5

43 0.0 224.0 336.0#

57 0.0 1013.0 1519.6#

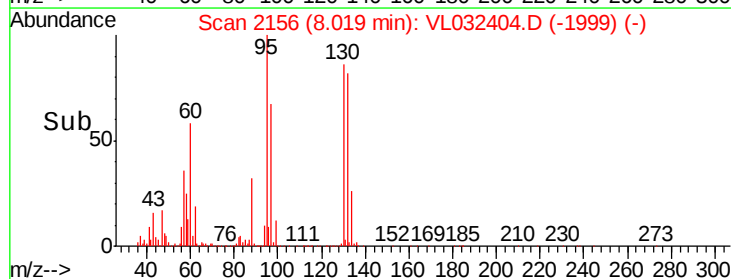
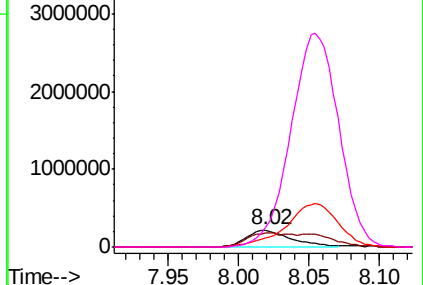


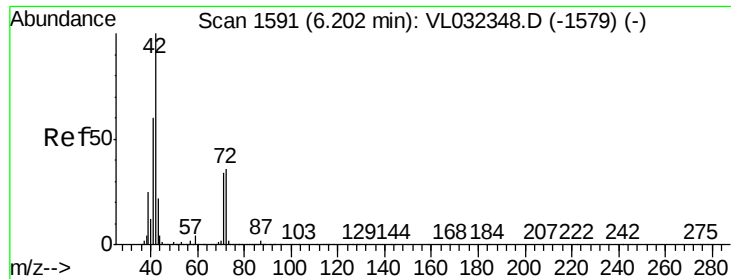
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 10.993 ppbv

RT: 6.21 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

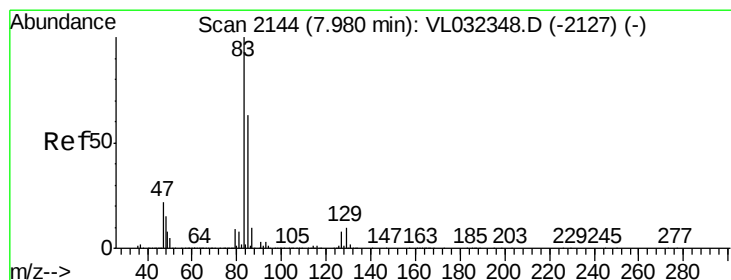
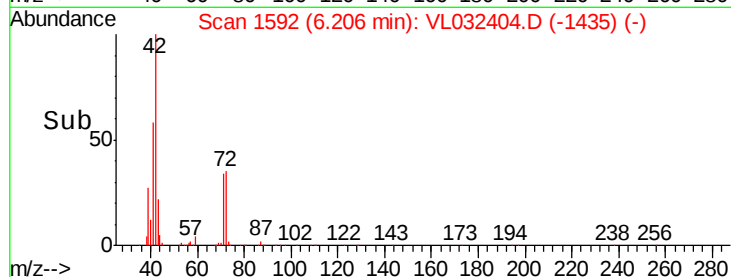
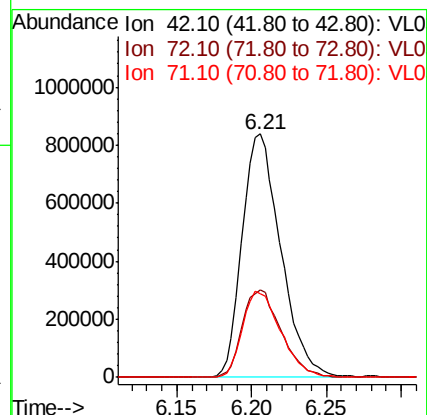
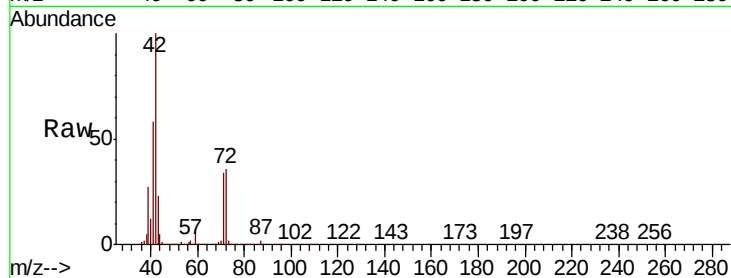
Tgt Ion: 42 Resp: 1506293

Ion Ratio Lower Upper

42 100

72 36.4 29.8 44.6

71 35.2 28.2 42.2



#42

Bromodichloromethane

Concen: 11.410 ppbv

RT: 7.98 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

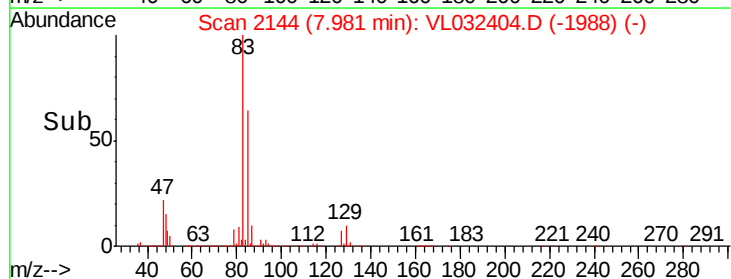
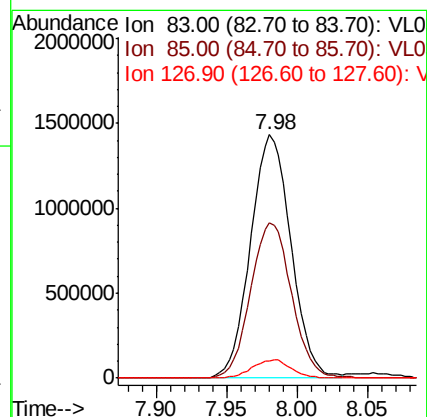
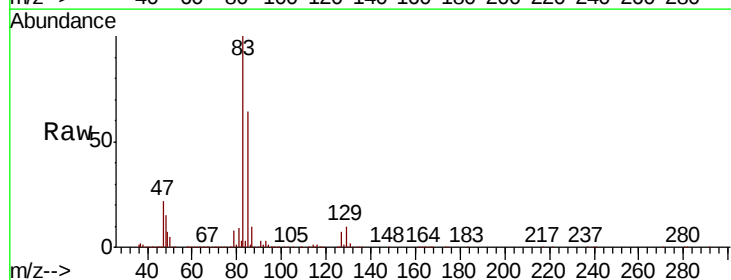
Tgt Ion: 83 Resp: 2881786

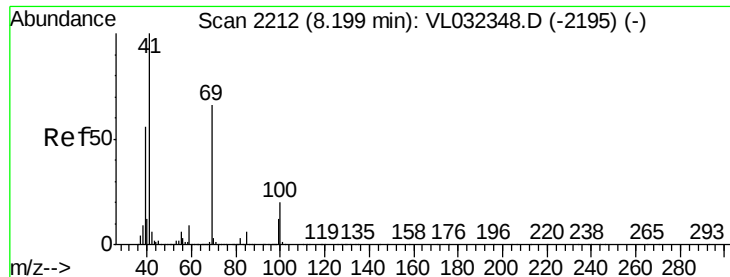
Ion Ratio Lower Upper

83 100

85 63.8 50.4 75.6

127 7.0 6.1 9.1

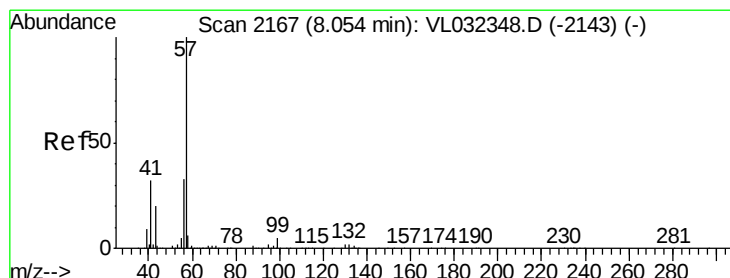
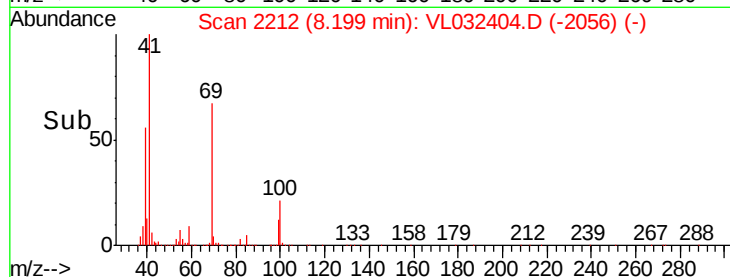
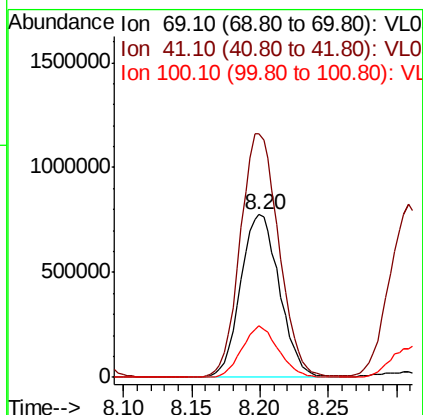
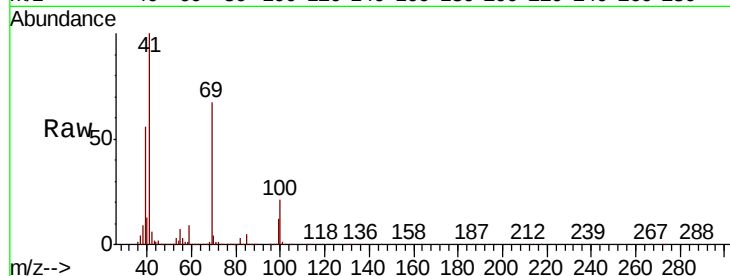




#43  
Methyl Methacrylate  
Concen: 12.073 ppbv  
RT: 8.20 min Scan# 2212  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

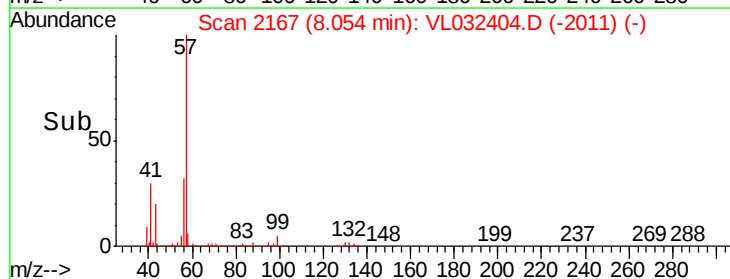
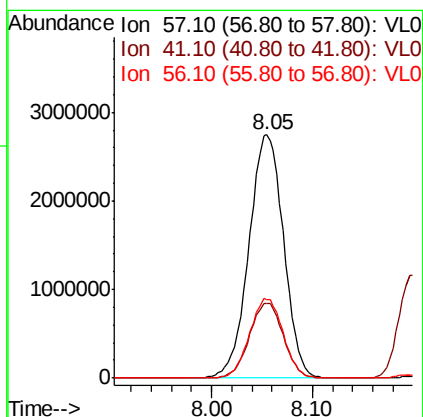
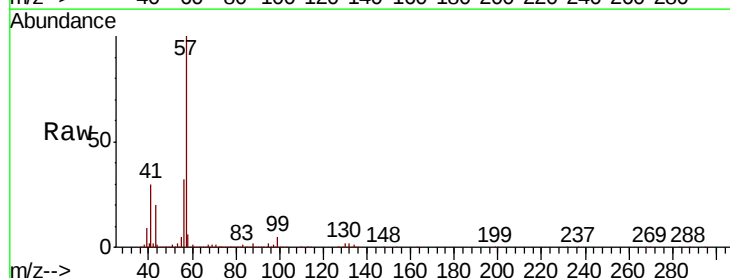
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

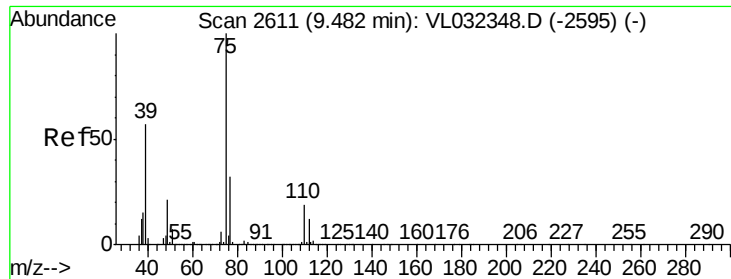
Tgt Ion: 69 Resp: 1529450  
Ion Ratio Lower Upper  
69 100  
41 149.0 118.6 177.8  
100 29.6 23.4 35.2



#44  
2,2,4-Trimethylpentane  
Concen: 11.397 ppbv  
RT: 8.05 min Scan# 2167  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion: 57 Resp: 6534483  
Ion Ratio Lower Upper  
57 100  
41 30.2 24.3 36.5  
56 31.7 25.7 38.5

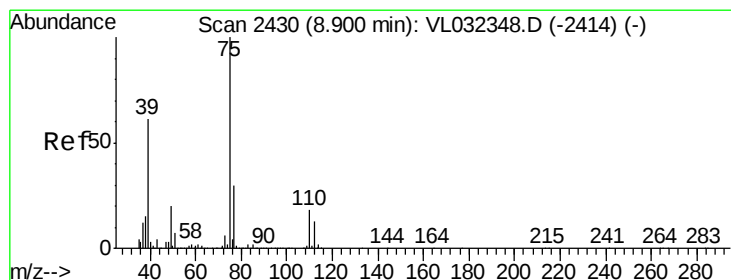
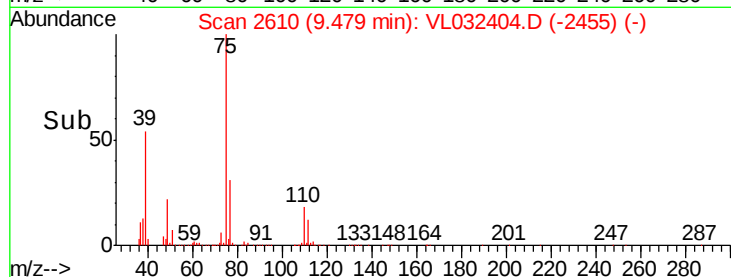
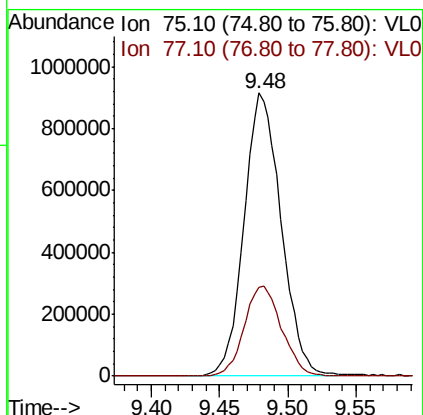
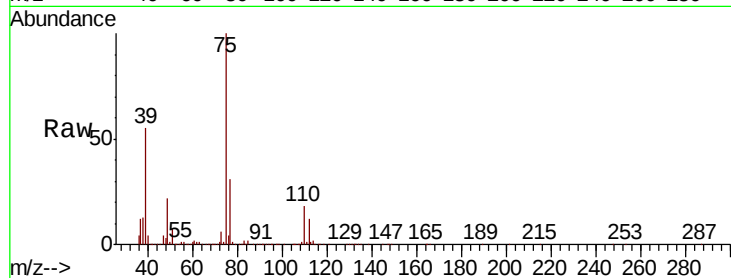




#45  
 t-1,3-Dichloropropene  
 Concen: 10.770 ppbv  
 RT: 9.48 min Scan# 2610  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

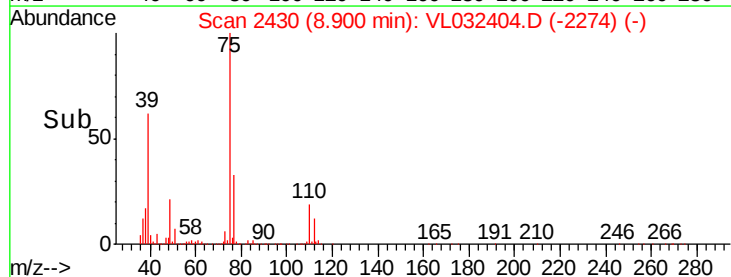
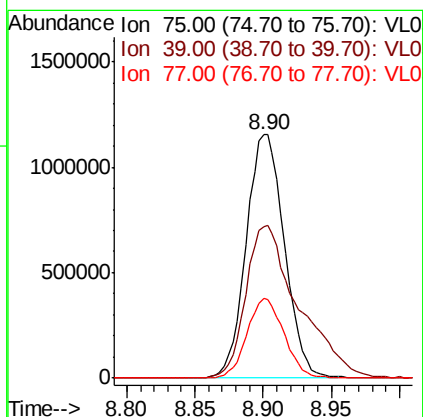
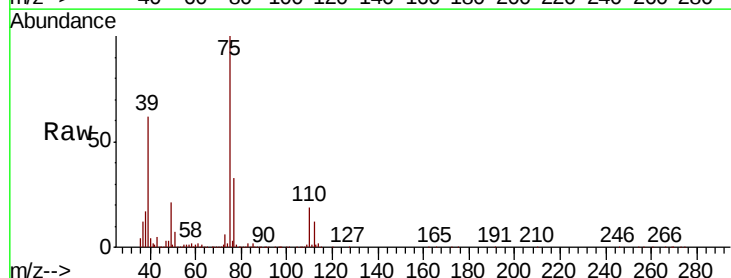
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

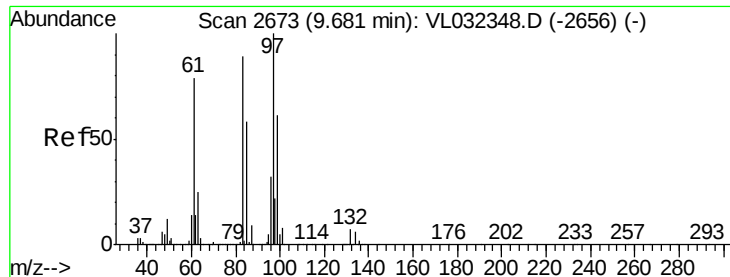
Tgt Ion: 75 Resp: 1725628  
 Ion Ratio Lower Upper  
 75 100  
 77 31.4 25.4 38.2



#46  
 cis-1,3-Dichloropropene  
 Concen: 11.705 ppbv  
 RT: 8.90 min Scan# 2430  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 75 Resp: 2249340  
 Ion Ratio Lower Upper  
 75 100  
 39 62.3 48.5 72.7  
 77 33.0 24.3 36.5

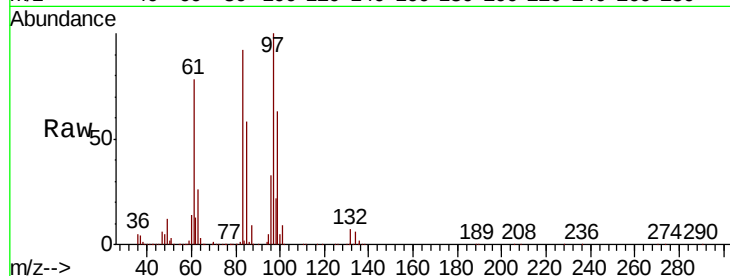




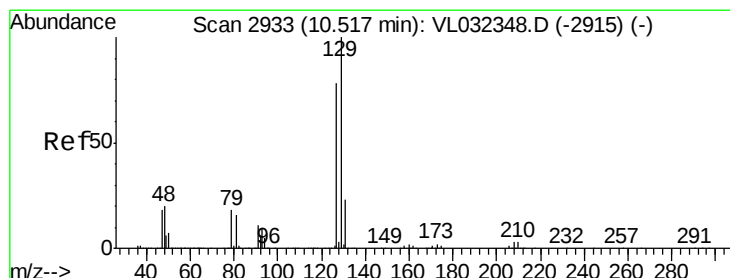
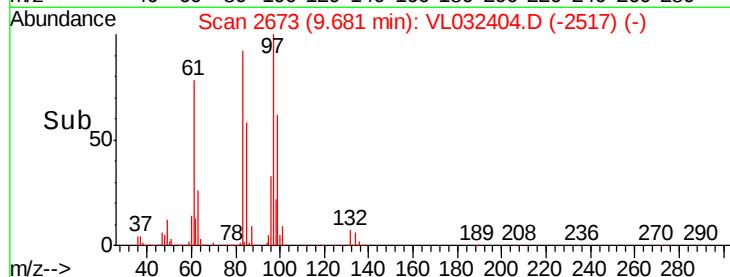
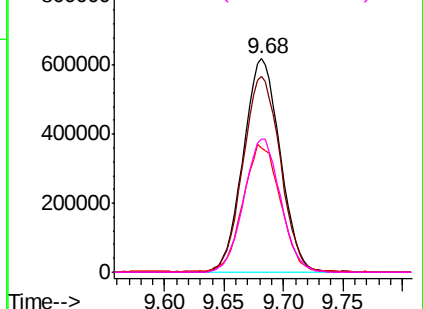
#47  
 1,1,2-Trichloroethane  
 Concen: 9.098 ppbv  
 RT: 9.68 min Scan# 2673  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion: 97 Resp: 1329846  
 Ion Ratio Lower Upper  
 97 100  
 83 91.7 71.2 106.8  
 85 57.5 46.6 69.8  
 99 62.5 49.2 73.8

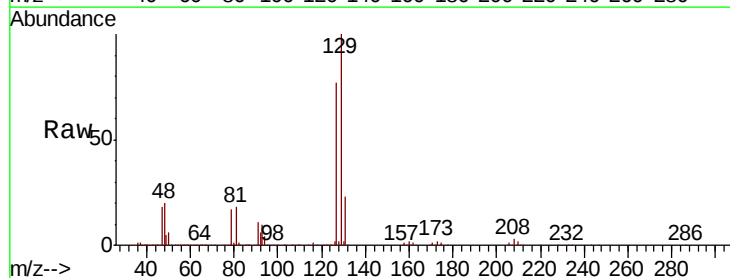


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

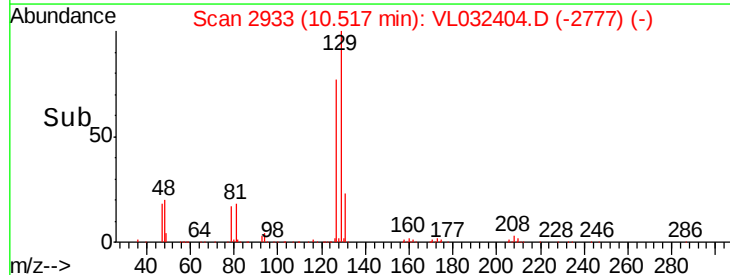
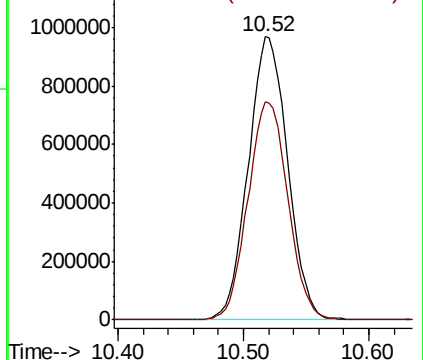


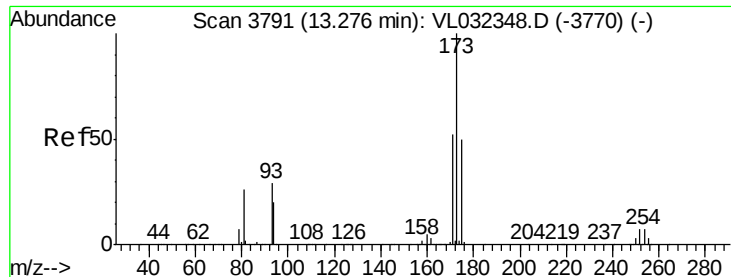
#48  
 Dibromochloromethane  
 Concen: 10.801 ppbv  
 RT: 10.52 min Scan# 2933  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 129 Resp: 2110786  
 Ion Ratio Lower Upper  
 129 100  
 127 78.6 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.801 ppbv

RT: 13.27 min Scan# 3789

Delta R.T. -0.01 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

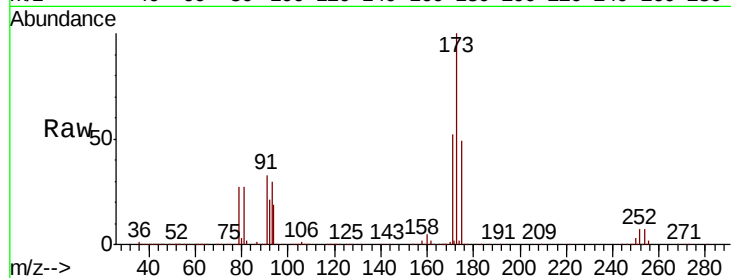
Tgt Ion:173 Resp: 1753181

Ion Ratio Lower Upper

173 100

175 48.3 39.3 58.9

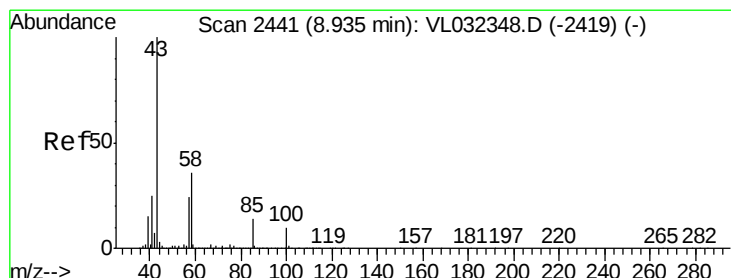
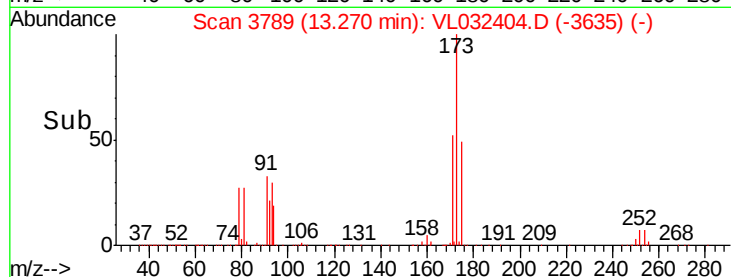
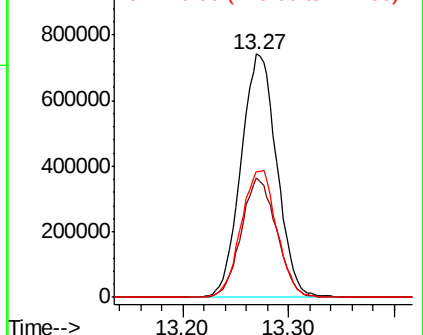
171 52.5 41.9 62.9



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: 10.796 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL032404.D

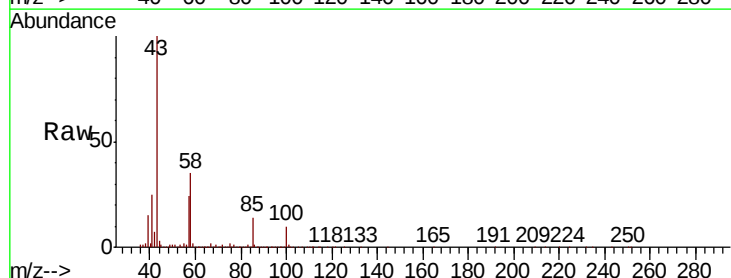
Acq: 17 Aug 2018 12:01

Tgt Ion: 43 Resp: 3979562

Ion Ratio Lower Upper

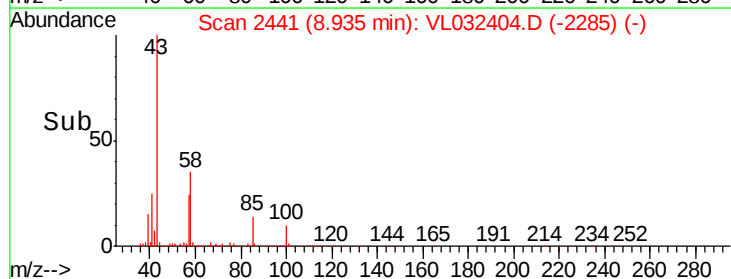
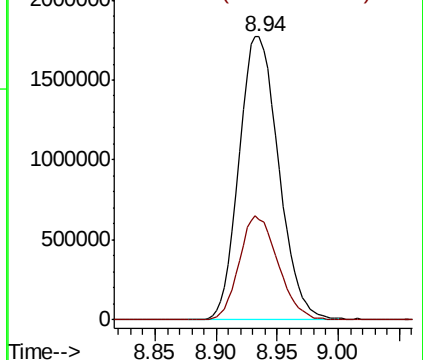
43 100

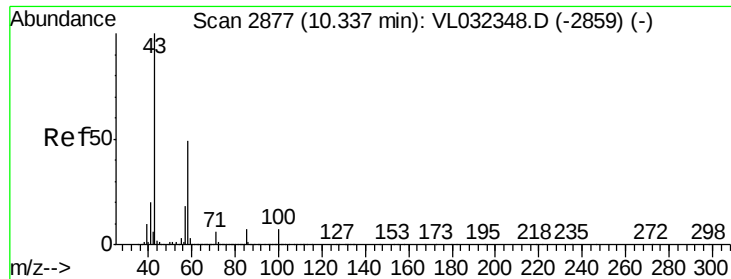
58 36.0 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

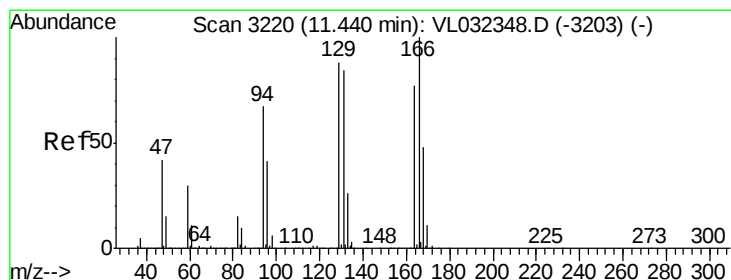
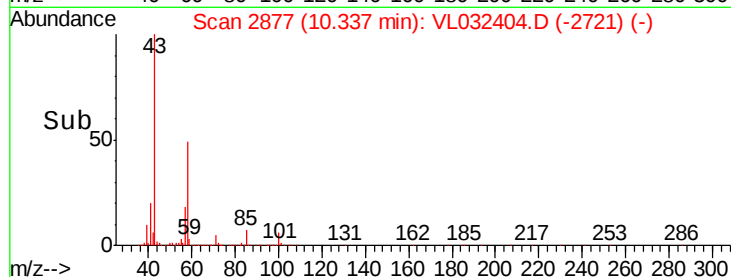
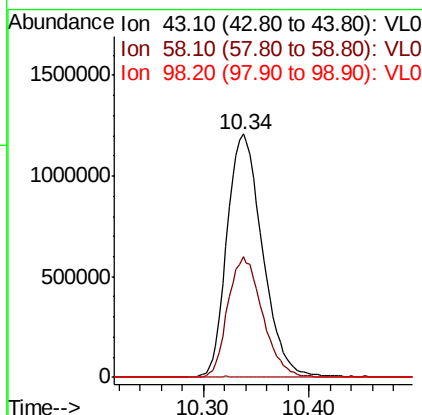
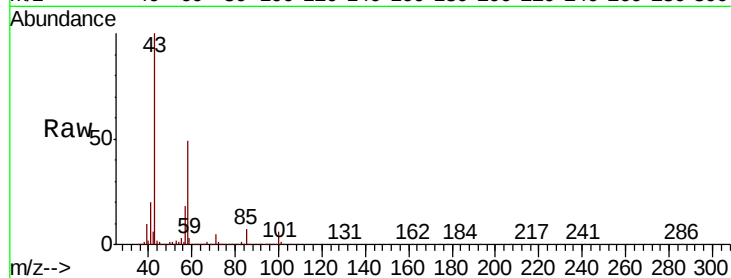




#51  
2-Hexanone  
Concen: 10.898 ppbv  
RT: 10.34 min Scan# 2877  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

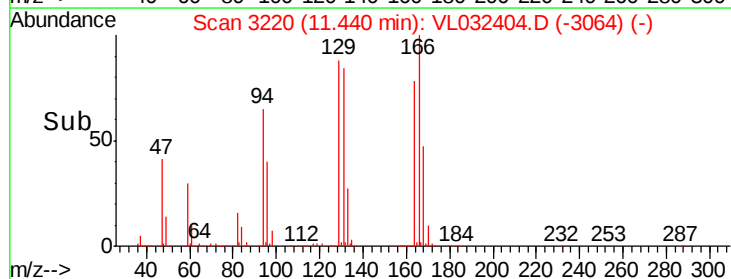
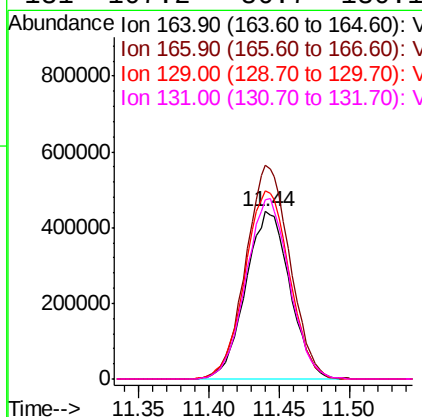
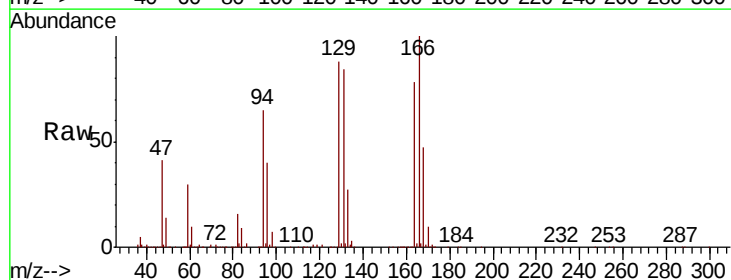
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

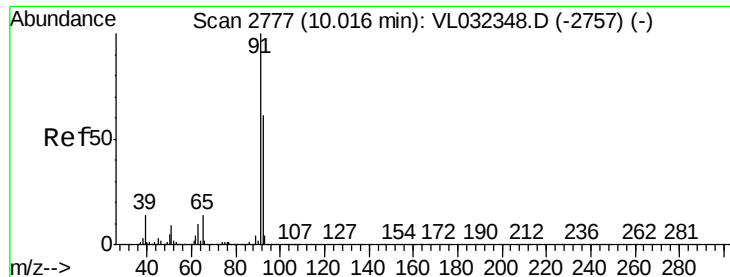
Tgt Ion: 43 Resp: 2821131  
Ion Ratio Lower Upper  
43 100  
58 48.3 39.5 59.3  
98 0.6 0.3 0.5#



#52  
Tetrachloroethene  
Concen: 10.323 ppbv  
RT: 11.44 min Scan# 3220  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion: 164 Resp: 967976  
Ion Ratio Lower Upper  
164 100  
166 127.5 103.5 155.3  
129 112.0 90.9 136.3  
131 107.2 86.7 130.1





#53

Toluene

Concen: 10.622 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

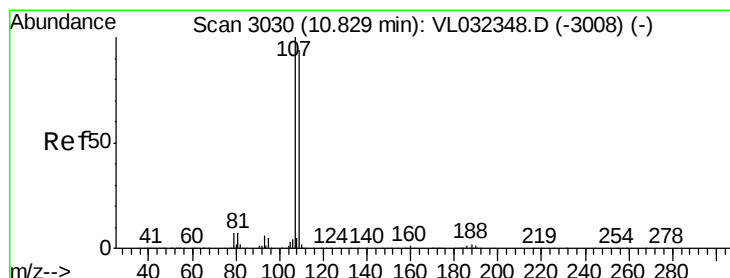
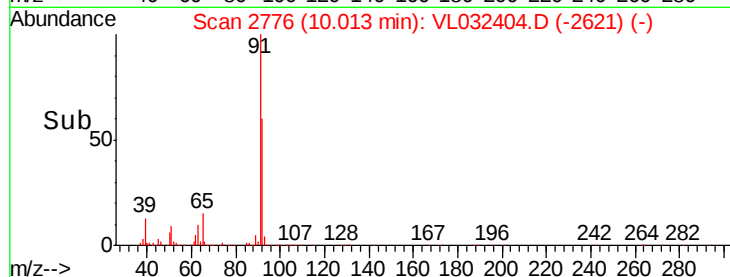
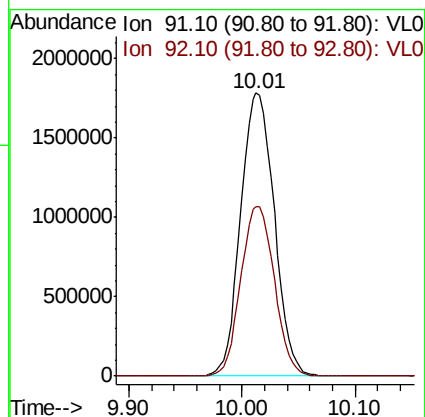
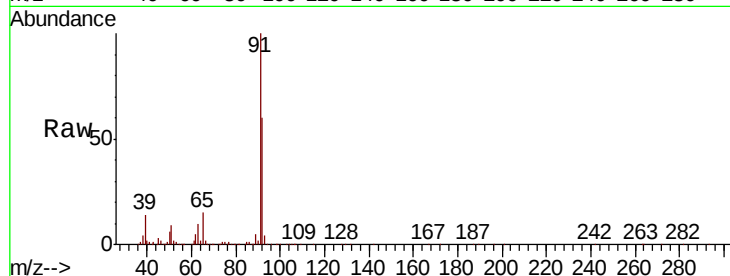
VSTDCCC010EC

Tgt Ion: 91 Resp: 3702198

Ion Ratio Lower Upper

91 100

92 59.9 48.7 73.1



#54

1,2-Dibromoethane

Concen: 10.424 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VL032404.D

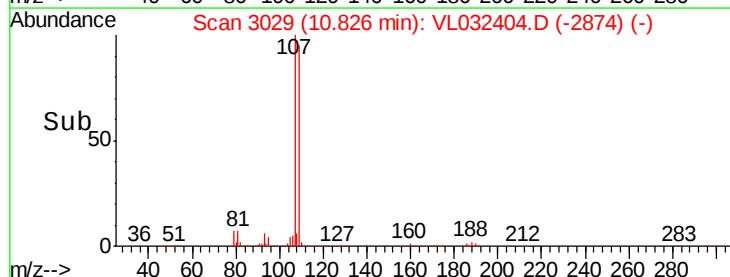
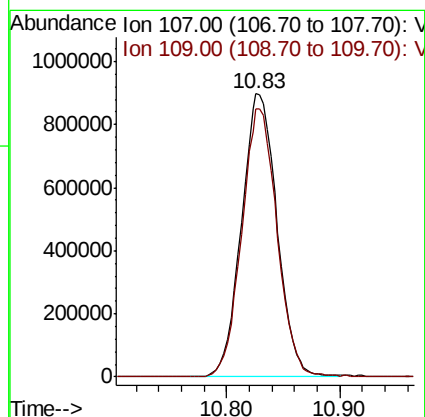
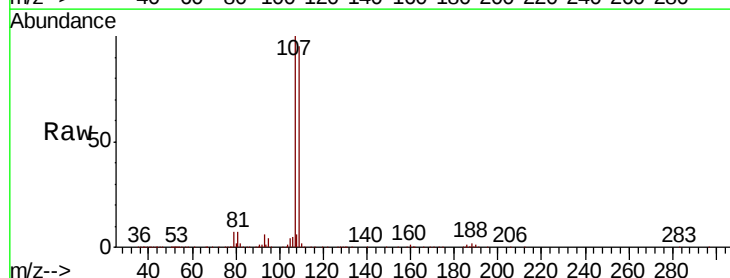
Acq: 17 Aug 2018 12:01

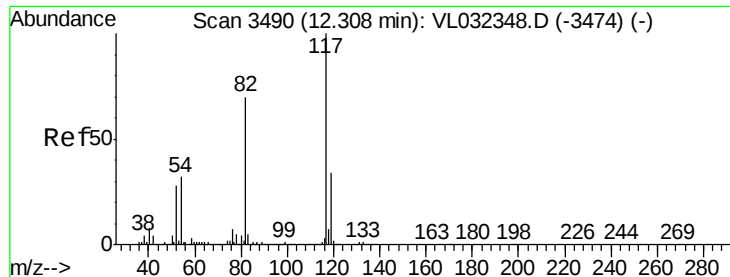
Tgt Ion: 107 Resp: 1957207

Ion Ratio Lower Upper

107 100

109 94.8 74.9 112.3

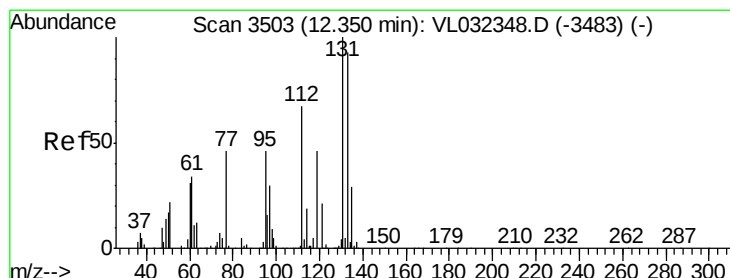
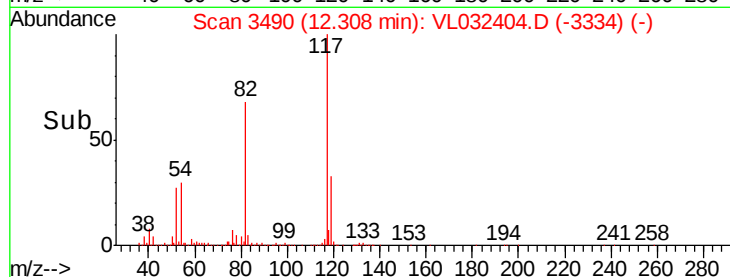
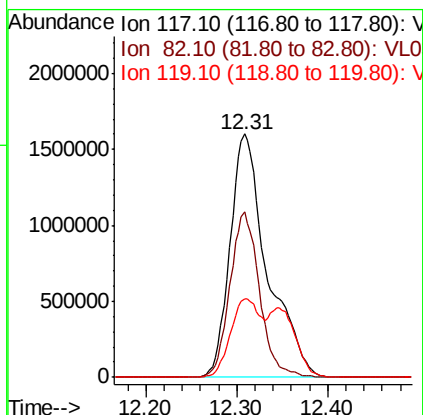
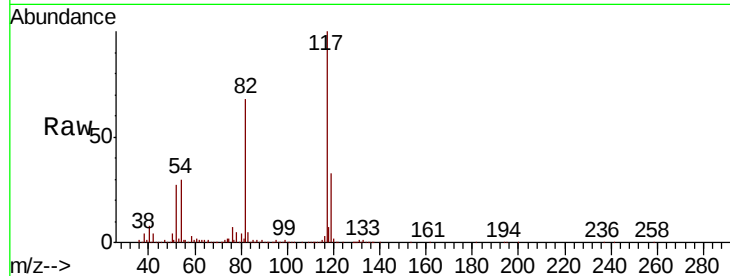




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.31 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

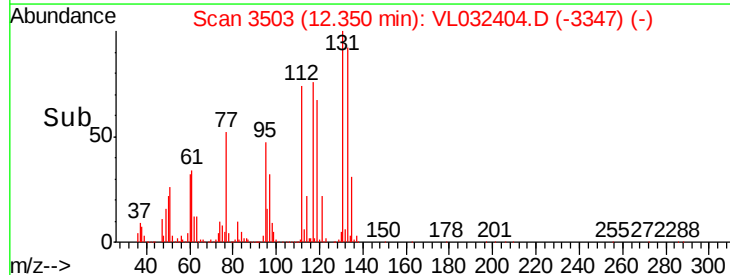
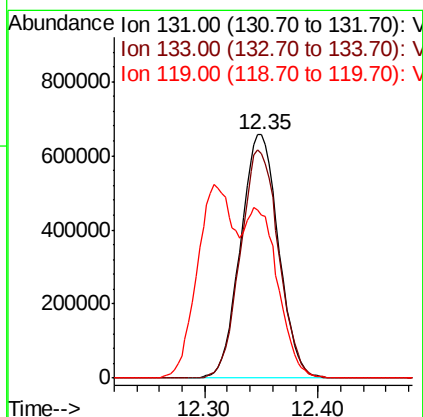
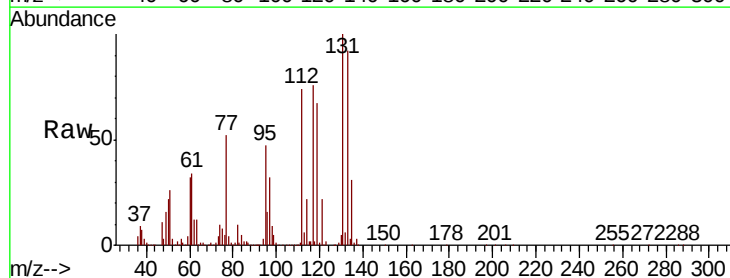
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

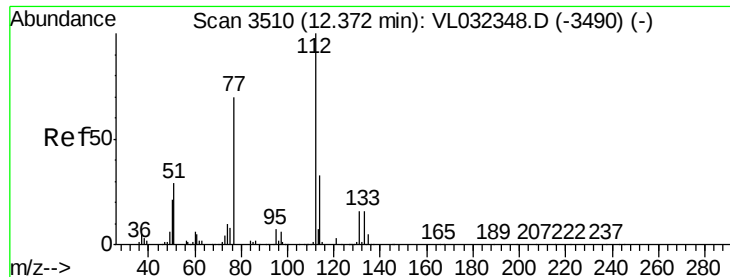
Tgt Ion:117 Resp: 4553839  
Ion Ratio Lower Upper  
117 100  
82 54.2 55.1 82.7#  
119 26.5 46.0 69.0#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.153 ppbv  
RT: 12.35 min Scan# 3503  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion:131 Resp: 1535858  
Ion Ratio Lower Upper  
131 100  
133 94.6 75.7 113.5  
119 61.7 116.0 174.0#

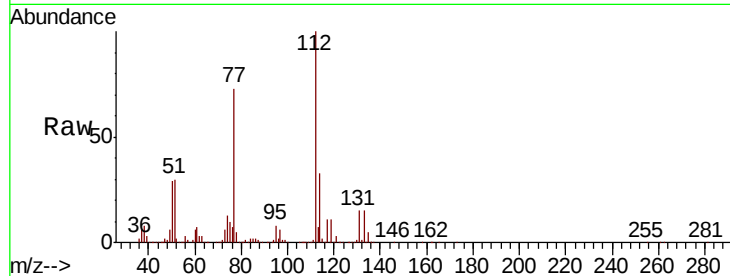




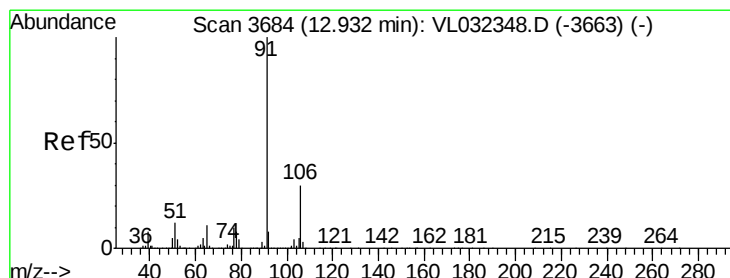
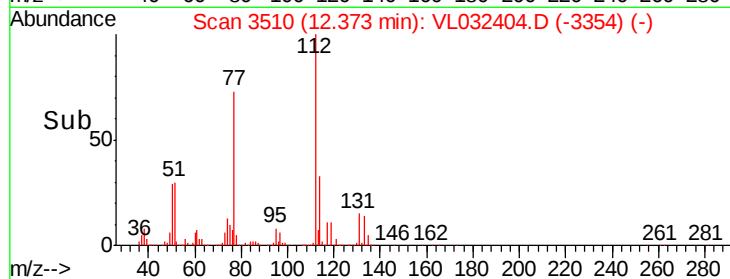
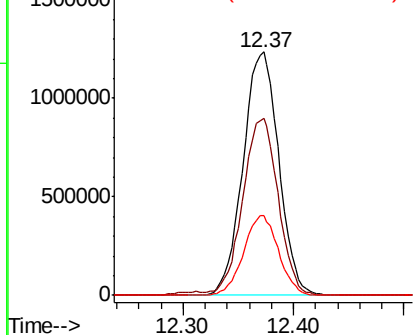
#57  
Chlorobenzene  
Concen: 8.095 ppbv  
RT: 12.37 min Scan# 3510  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 112 Resp: 2774879  
Ion Ratio Lower Upper  
112 100  
77 72.6 56.6 84.8  
114 33.0 29.4 36.0

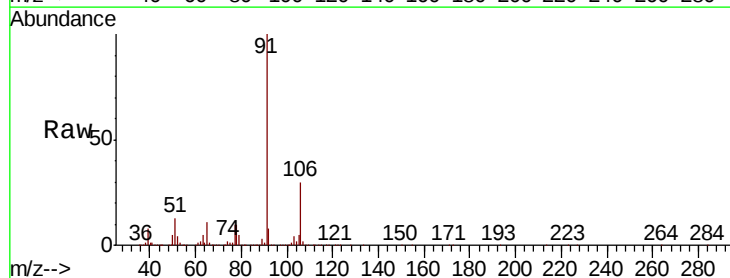


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

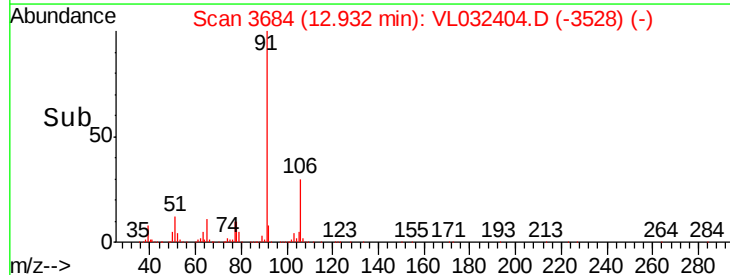
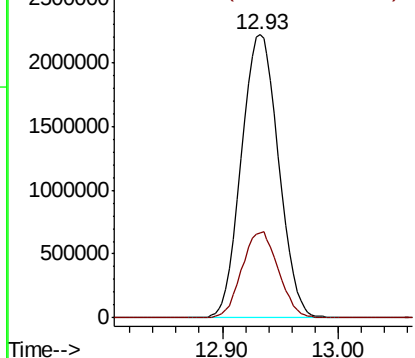


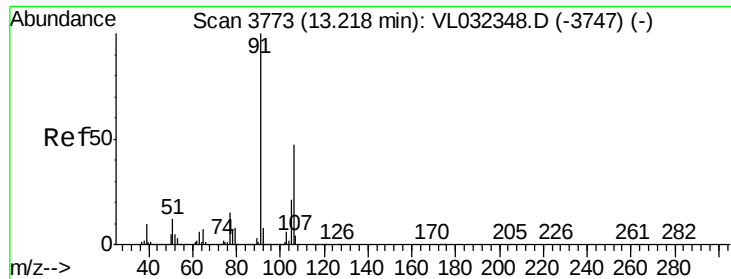
#58  
Ethyl Benzene  
Concen: 9.013 ppbv  
RT: 12.93 min Scan# 3684  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion: 91 Resp: 4938166  
Ion Ratio Lower Upper  
91 100  
106 30.1 24.3 36.5



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

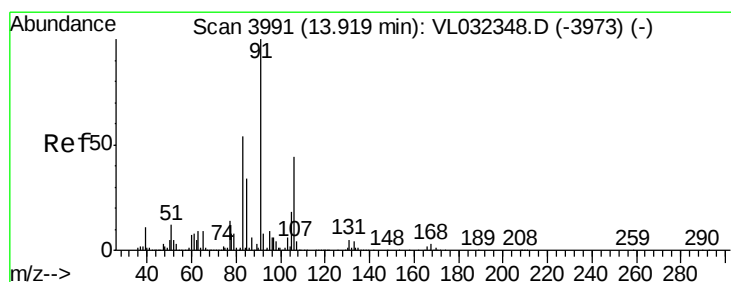
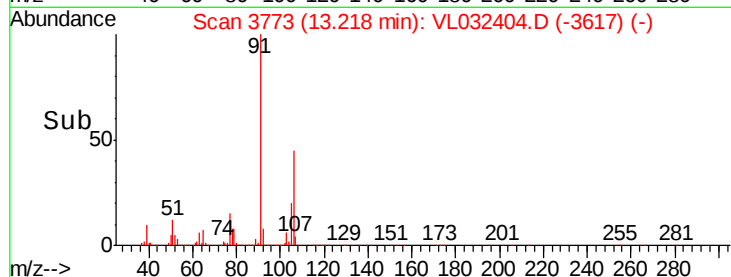
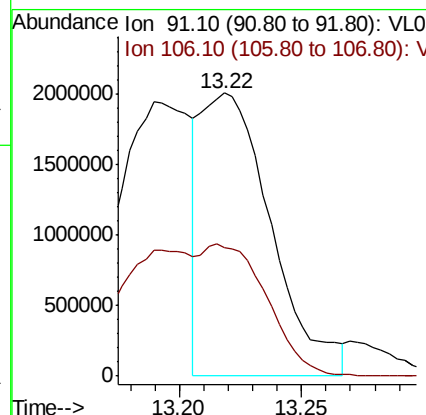
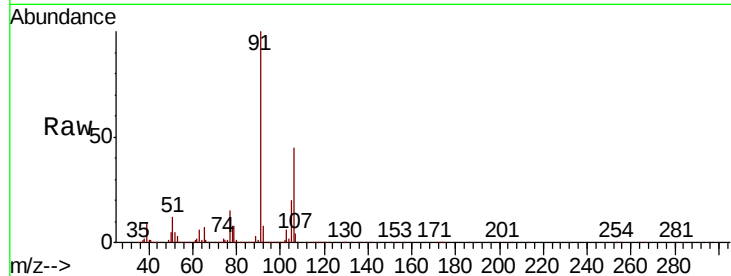




#59  
m/p-Xylene  
Concen: 8.604 ppbv  
RT: 13.22 min Scan# 3773  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

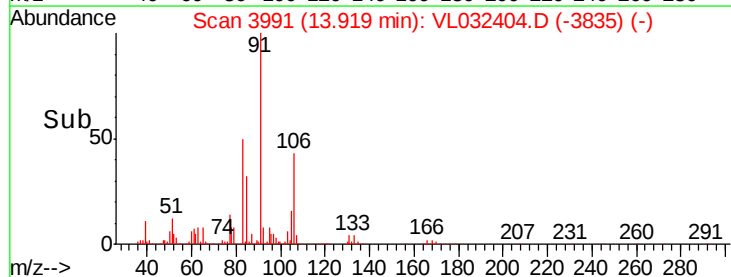
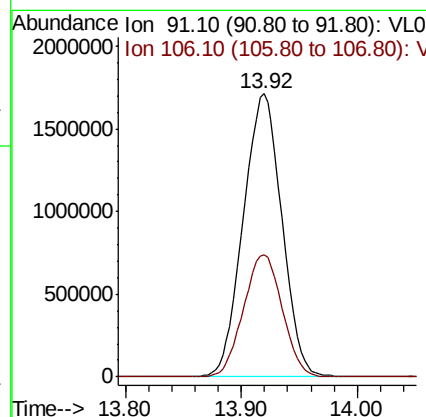
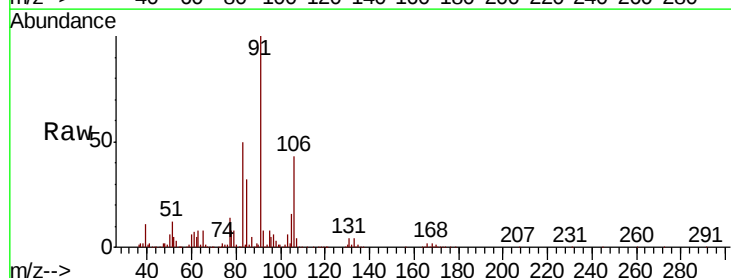
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

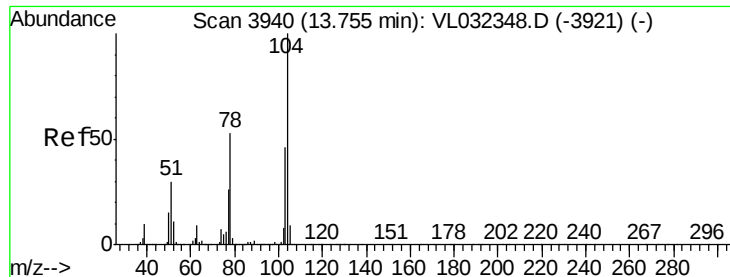
Tgt Ion: 91 Resp: 4004446  
Ion Ratio Lower Upper  
91 100  
106 92.0 37.0 55.4#



#60  
o-Xylene  
Concen: 8.657 ppbv  
RT: 13.92 min Scan# 3991  
Delta R.T. 0.00 min  
Lab File: VL032404.D  
Acq: 17 Aug 2018 12:01

Tgt Ion: 91 Resp: 3960358  
Ion Ratio Lower Upper  
91 100  
106 43.6 22.3 66.8





#61

Styrene

Concen: 9.509 ppbv

RT: 13.75 min Scan# 3939

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

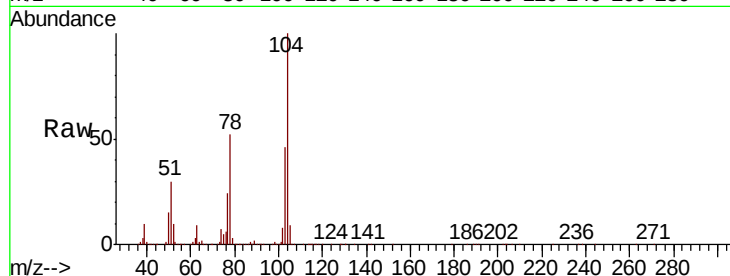
Tgt Ion:104 Resp: 3040206

Ion Ratio Lower Upper

104 100

78 52.5 42.6 64.0

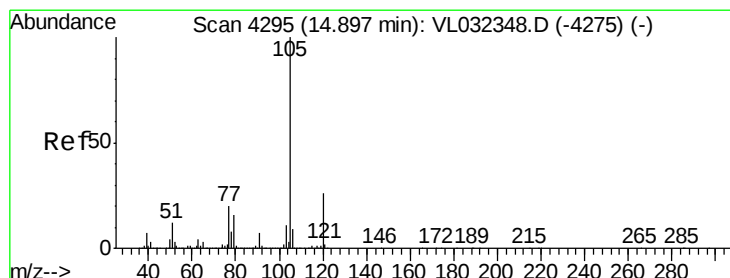
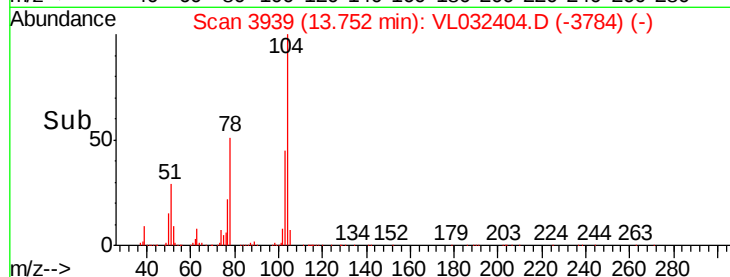
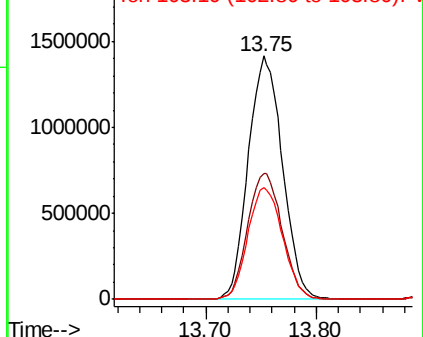
103 47.0 38.0 57.0



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: 8.598 ppbv

RT: 14.90 min Scan# 4295

Delta R.T. 0.00 min

Lab File: VL032404.D

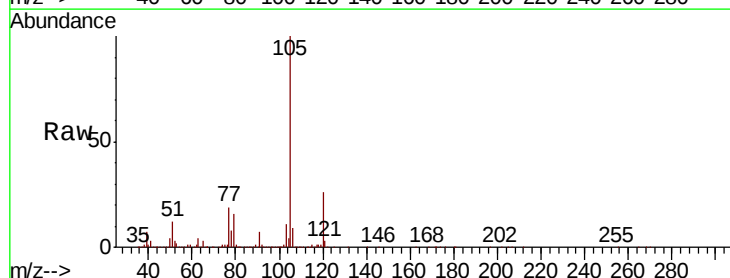
Acq: 17 Aug 2018 12:01

Tgt Ion:105 Resp: 5598554

Ion Ratio Lower Upper

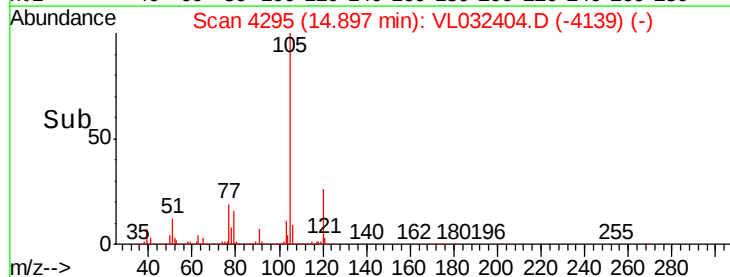
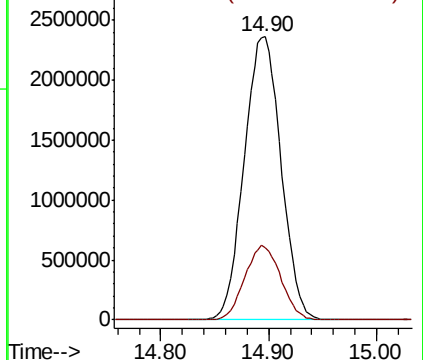
105 100

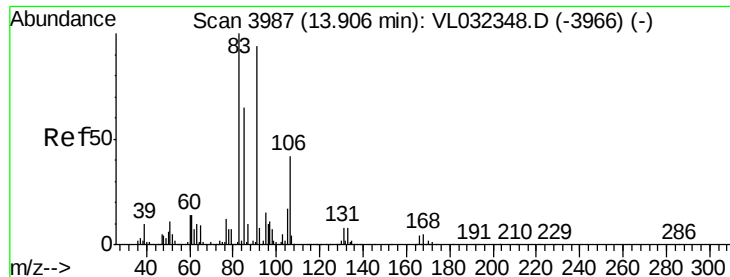
120 25.7 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

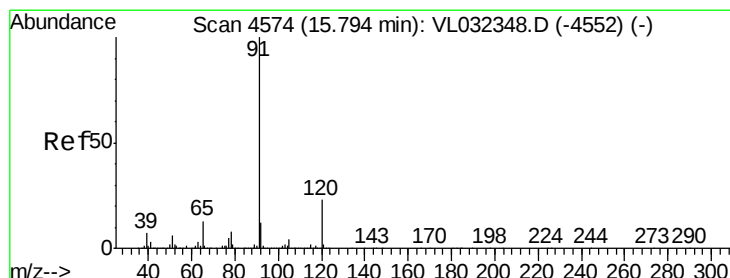
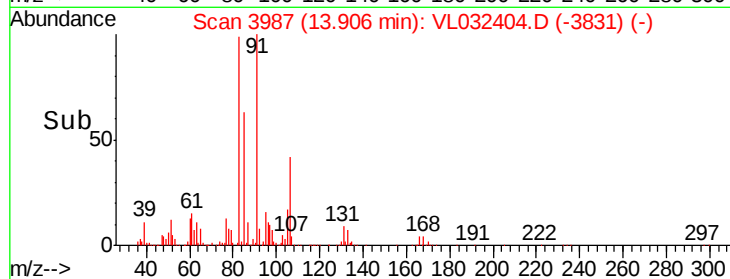
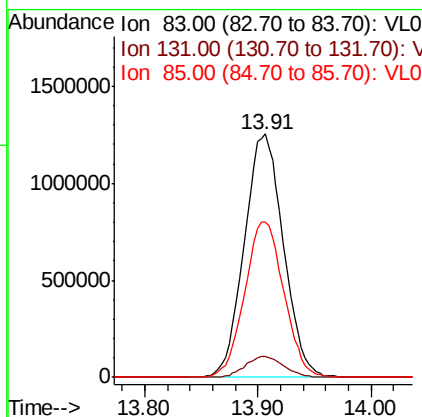
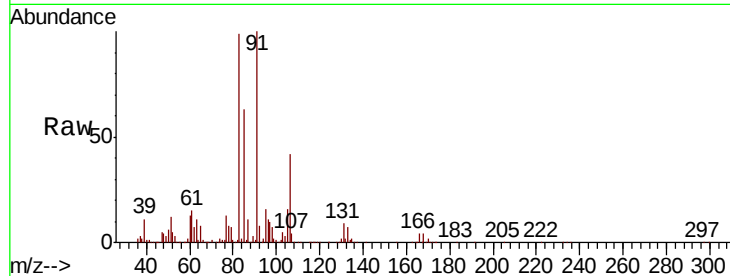




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.832 ppbv  
 RT: 13.91 min Scan# 3987  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

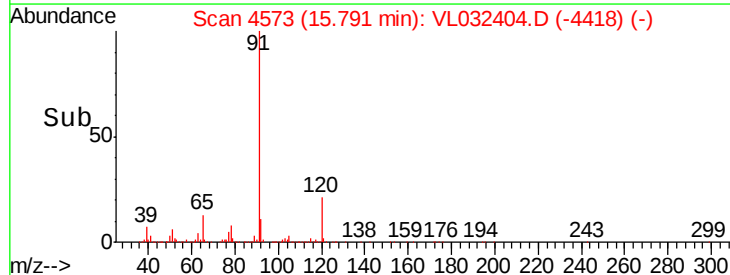
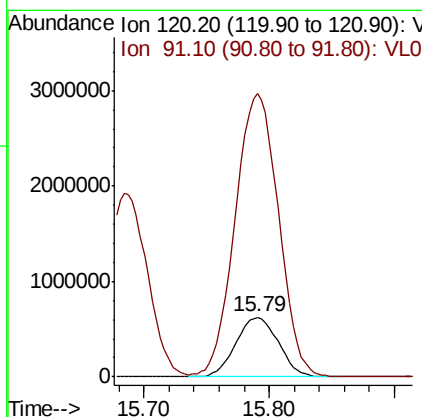
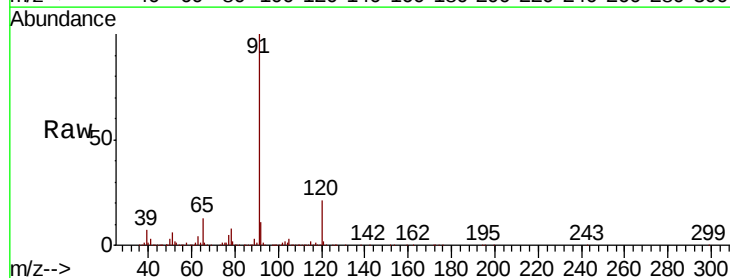
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

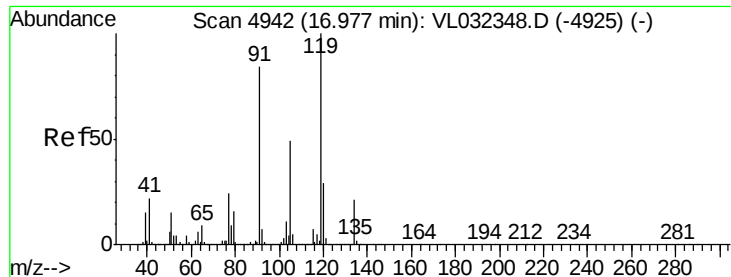
Tgt Ion: 83 Resp: 3012768  
 Ion Ratio Lower Upper  
 83 100  
 131 8.5 4.3 12.8  
 85 64.3 32.4 97.2



#64  
 n-propylbenzene  
 Concen: 8.719 ppbv  
 RT: 15.79 min Scan# 4573  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 120 Resp: 1469385  
 Ion Ratio Lower Upper  
 120 100  
 91 487.0 382.2 573.2





#65

tert-Butylbenzene

Concen: 8.573 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

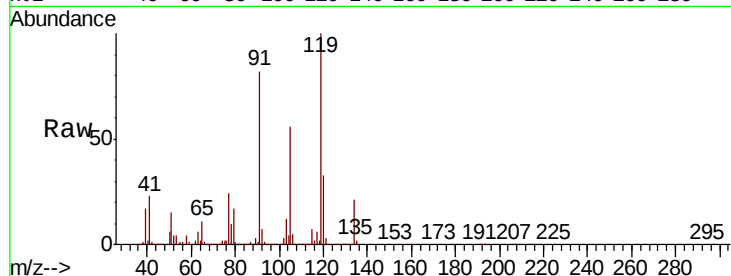
Tgt Ion:119 Resp: 4768978

Ion Ratio Lower Upper

119 100

91 84.1 67.4 101.0

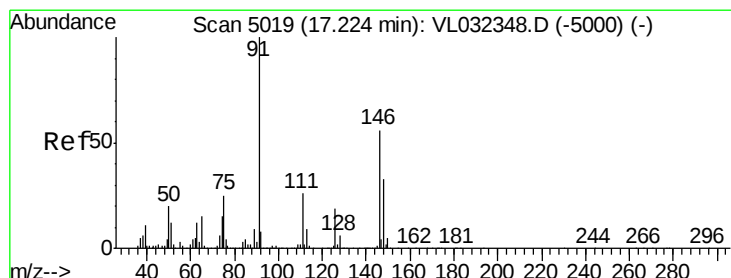
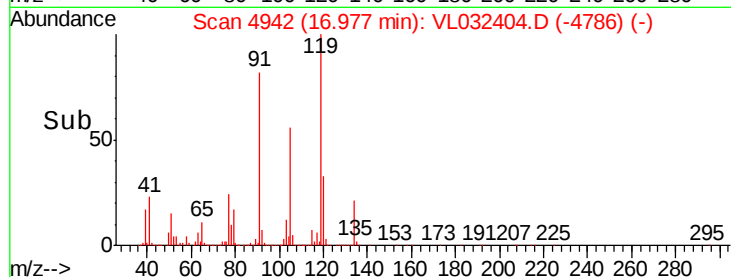
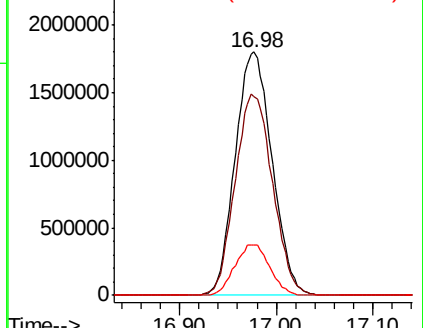
134 19.8 15.8 23.6



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: 9.689 ppbv

RT: 17.22 min Scan# 5019

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

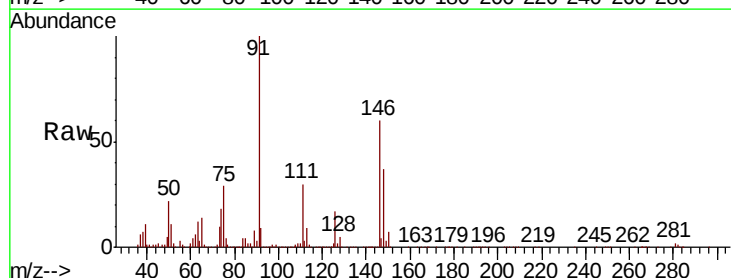
Tgt Ion: 91 Resp: 3191073

Ion Ratio Lower Upper

91 100

126 16.9 14.2 21.4

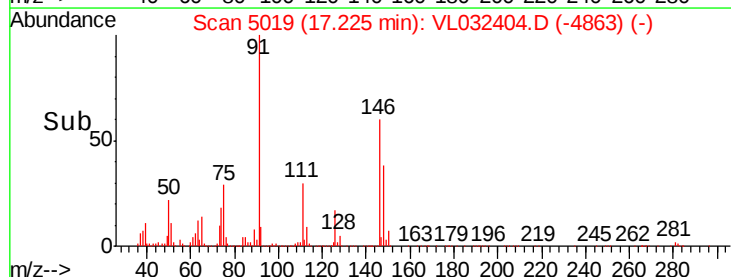
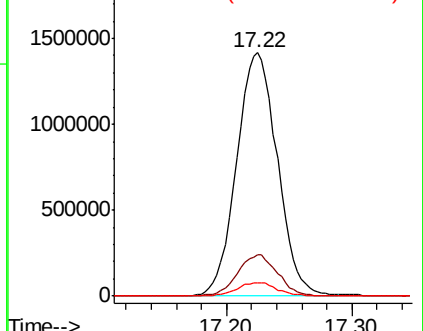
128 5.5 4.5 6.7

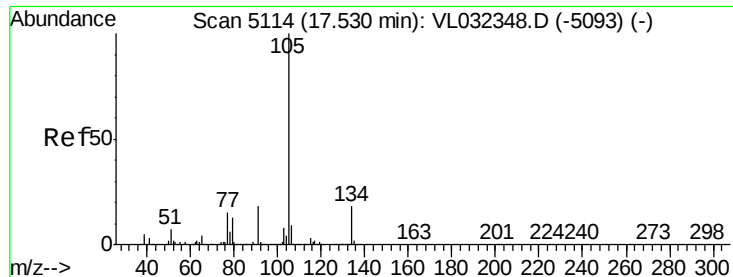


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

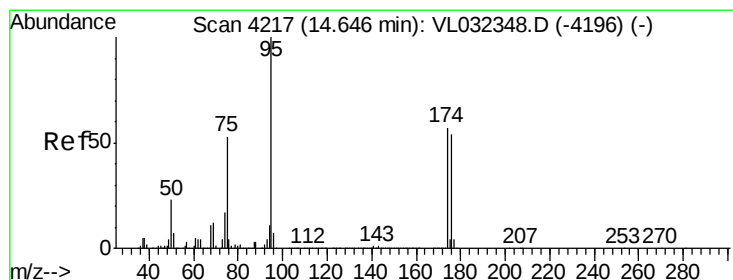
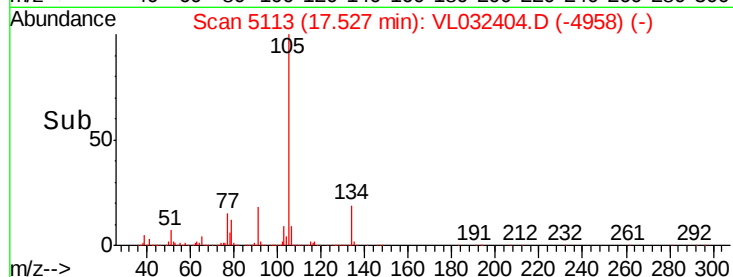
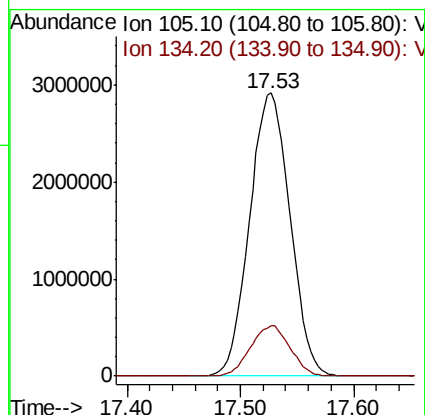
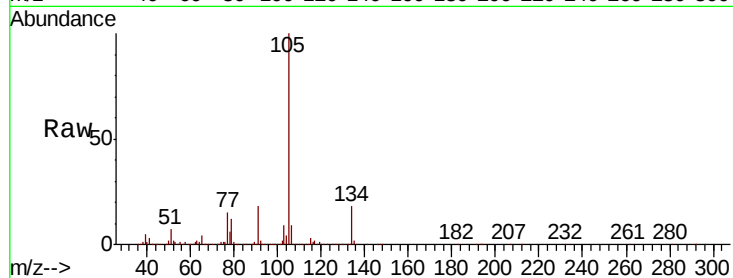




#67  
 sec-Butylbenzene  
 Concen: 8.732 ppbv  
 RT: 17.53 min Scan# 5113  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

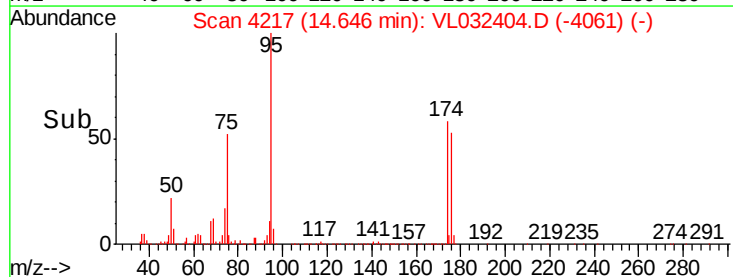
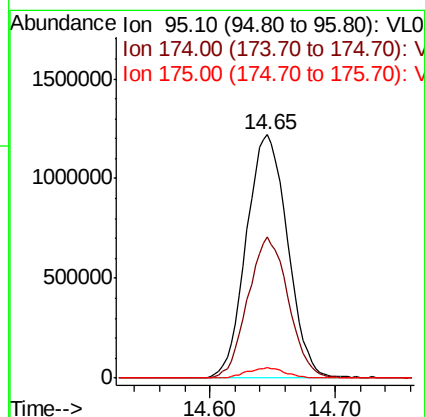
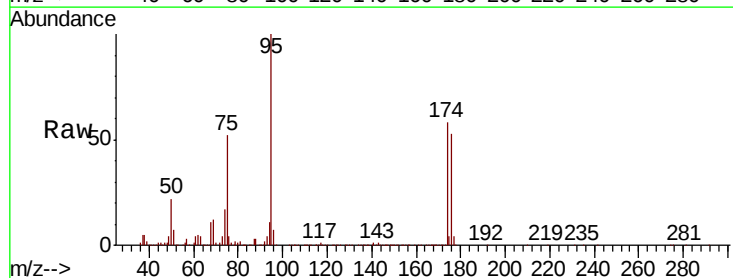
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

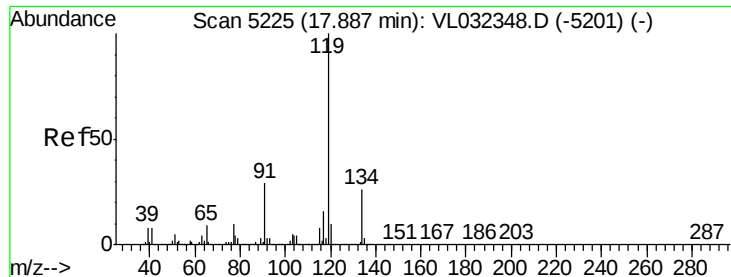
Tgt Ion: 105 Resp: 7222148  
 Ion Ratio Lower Upper  
 105 100  
 134 17.6 14.4 21.6



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.015 ppbv  
 RT: 14.65 min Scan# 4217  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 95 Resp: 2784538  
 Ion Ratio Lower Upper  
 95 100  
 174 57.4 46.2 69.4  
 175 4.0 3.4 5.0

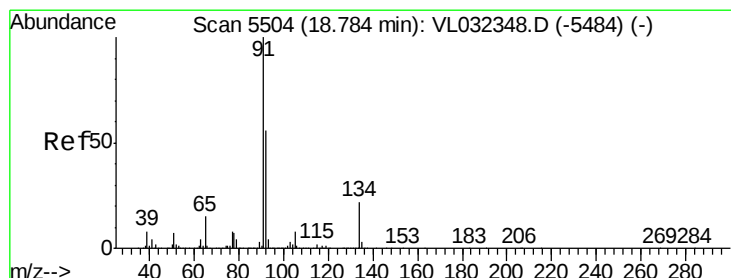
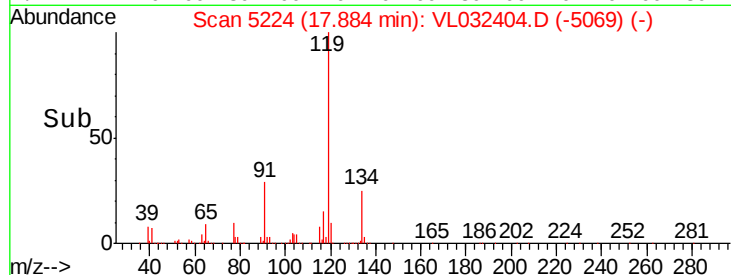
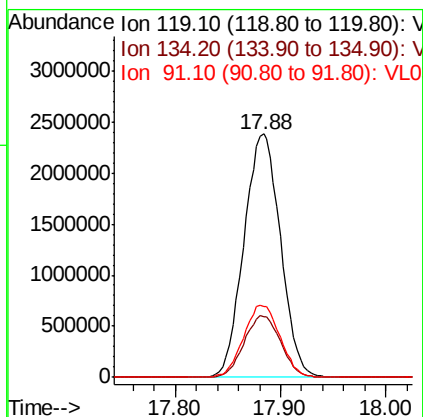
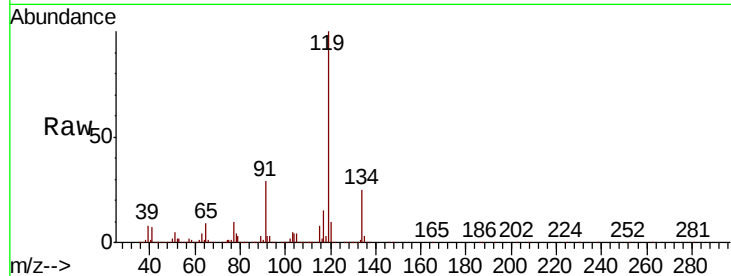




#69  
 p-Isopropyltoluene  
 Concen: 9.060 ppbv  
 RT: 17.88 min Scan# 5224  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

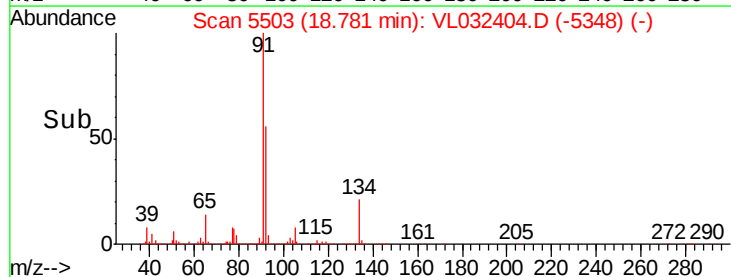
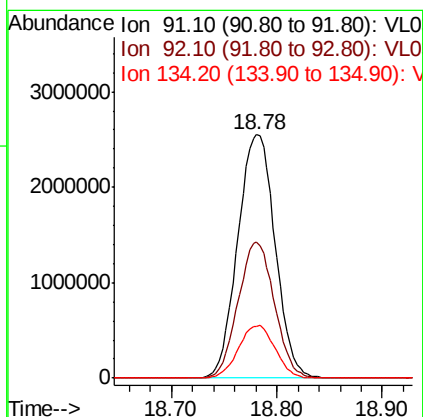
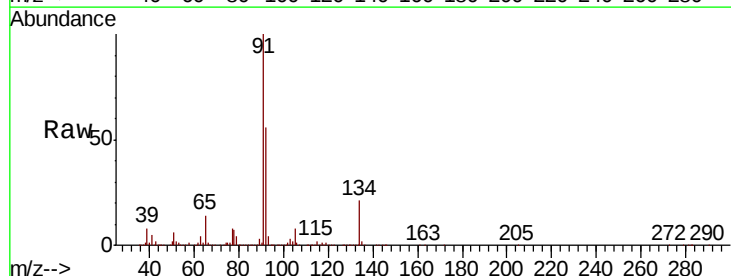
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

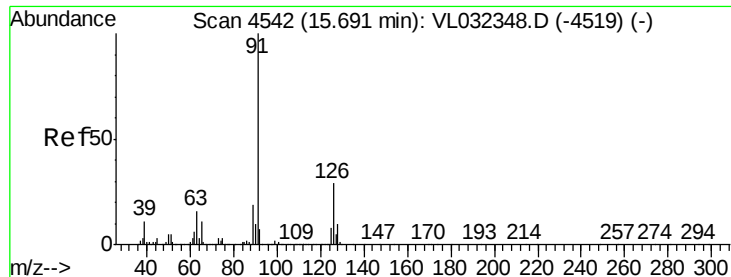
Tgt Ion: 119 Resp: 5735627  
 Ion Ratio Lower Upper  
 119 100  
 134 25.4 20.4 30.6  
 91 29.6 23.6 35.4



#70  
 n-Butylbenzene  
 Concen: 9.040 ppbv  
 RT: 18.78 min Scan# 5503  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion: 91 Resp: 6274466  
 Ion Ratio Lower Upper  
 91 100  
 92 54.3 43.9 65.9  
 134 21.3 17.3 25.9





#71

2-Chlorotoluene

Concen: 8.882 ppbv

RT: 15.68 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

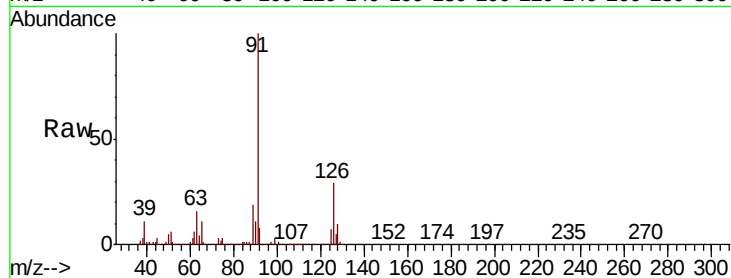
VSTDCCC010EC

Tgt Ion: 91 Resp: 4476005

Ion Ratio Lower Upper

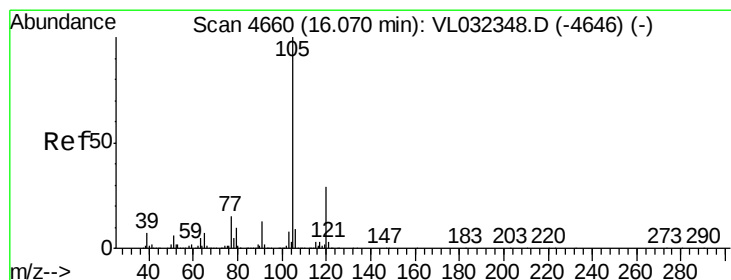
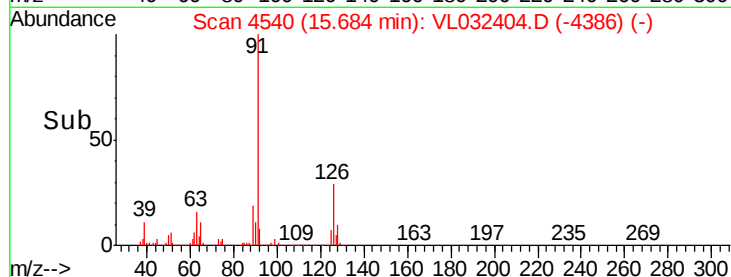
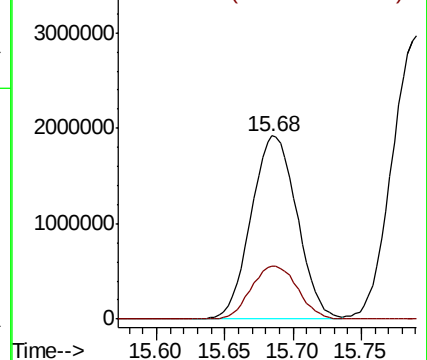
91 100

126 29.5 11.8 47.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.100 ppbv

RT: 16.07 min Scan# 4659

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Tgt Ion: 105 Resp: 4643004

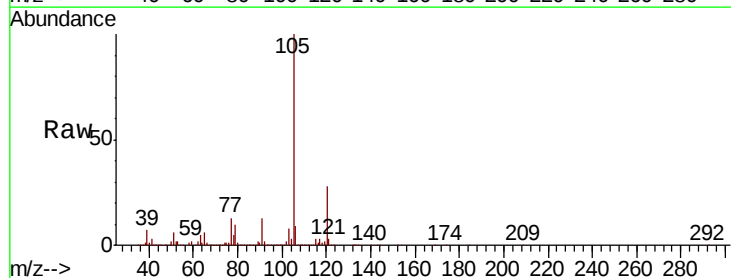
Ion Ratio Lower Upper

105 100

120 29.8 23.4 35.0

91 12.6 10.0 15.0

77 14.5 11.3 16.9

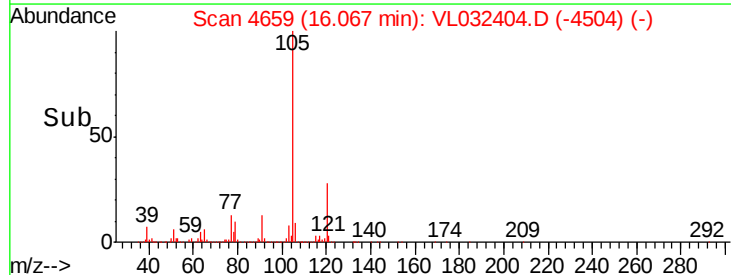
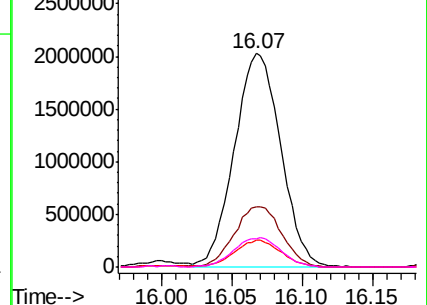


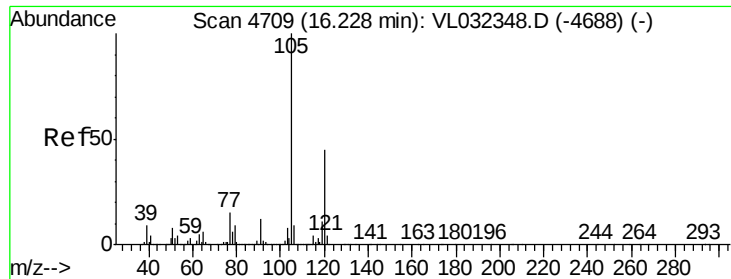
Abundance Ion 105.10 (104.80 to 105.80): V

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

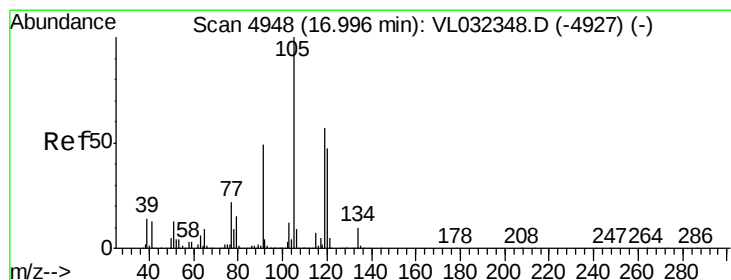
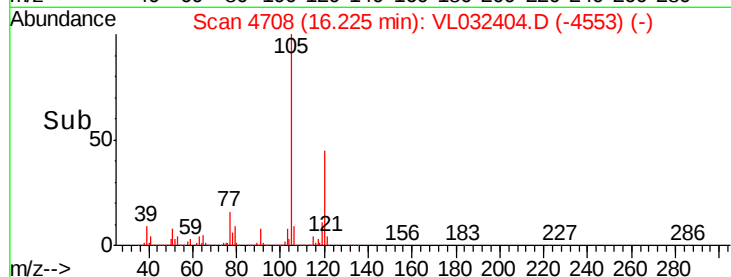
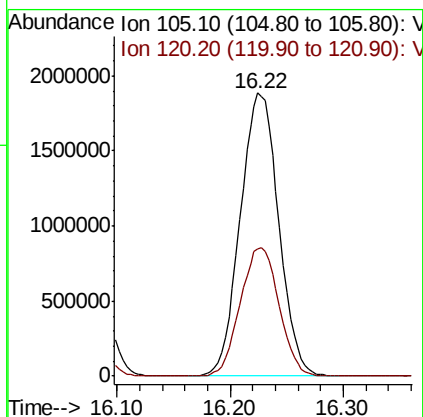
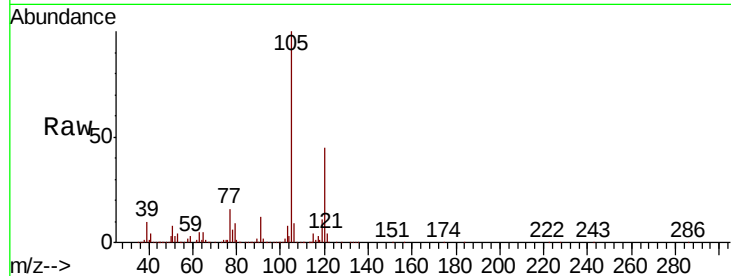




#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.019 ppbv  
 RT: 16.22 min Scan# 4708  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

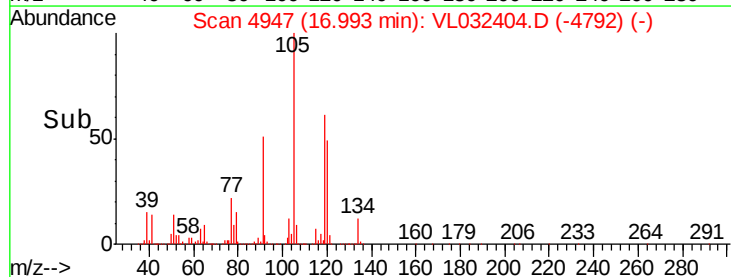
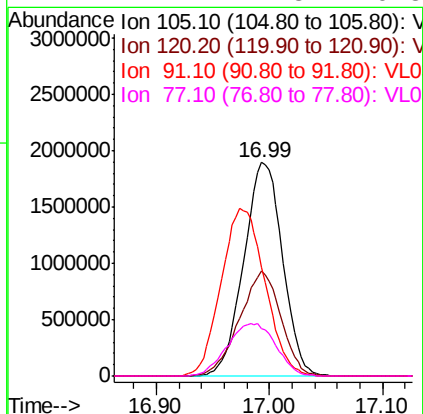
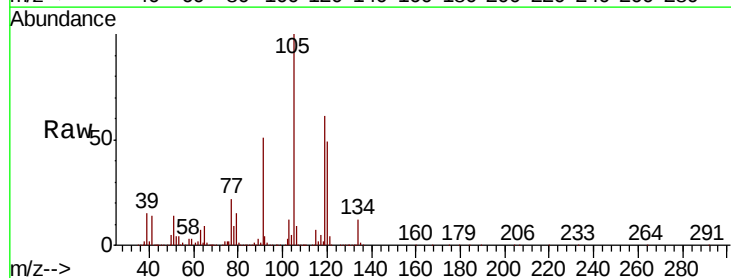
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

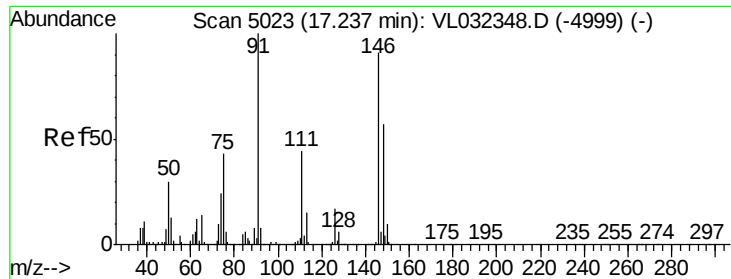
Tgt Ion:105 Resp: 4426455  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 36.3 54.5



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.639 ppbv  
 RT: 16.99 min Scan# 4947  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion:105 Resp: 4511171  
 Ion Ratio Lower Upper  
 105 100  
 120 48.9 37.6 56.4  
 91 50.9 39.9 59.9  
 77 22.2 17.8 26.8





#75

1,3-Dichlorobenzene

Concen: 8.137 ppbv

RT: 17.23 min Scan# 5022

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

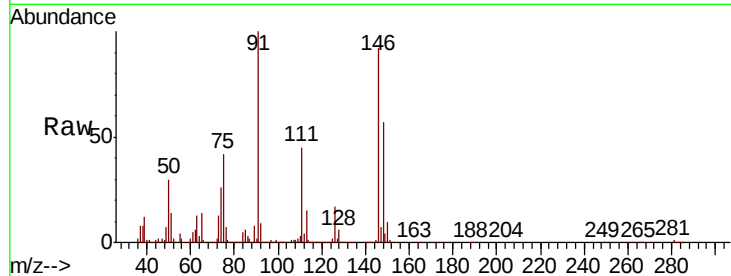
Tgt Ion:146 Resp: 2553645

Ion Ratio Lower Upper

146 100

111 49.2 24.6 73.8

148 63.3 32.0 96.0

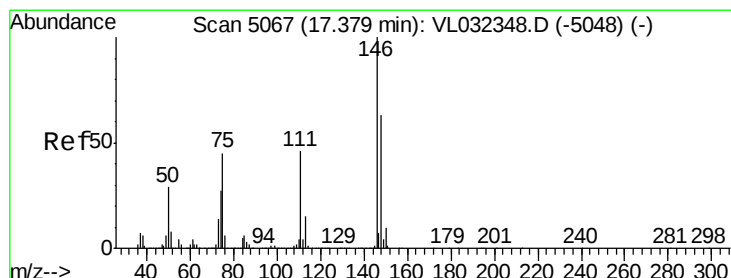
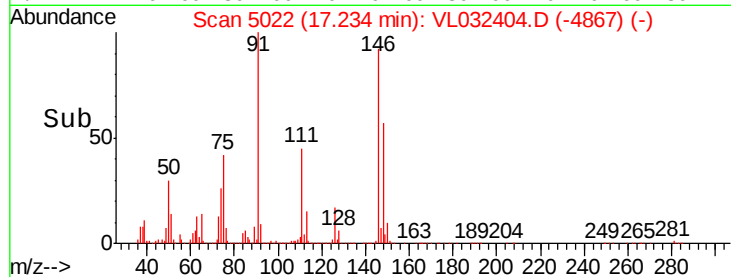
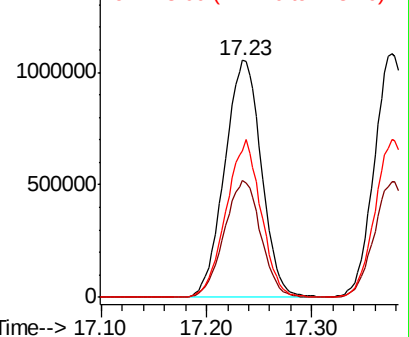


Abundance

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



#76

1,4-Dichlorobenzene

Concen: 8.644 ppbv

RT: 17.38 min Scan# 5066

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

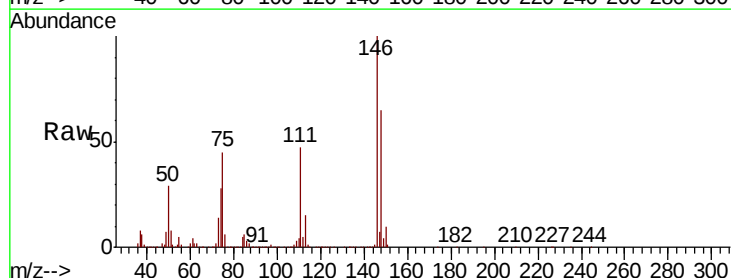
Tgt Ion:146 Resp: 2569421

Ion Ratio Lower Upper

146 100

111 47.5 23.8 71.4

148 64.3 32.2 96.6

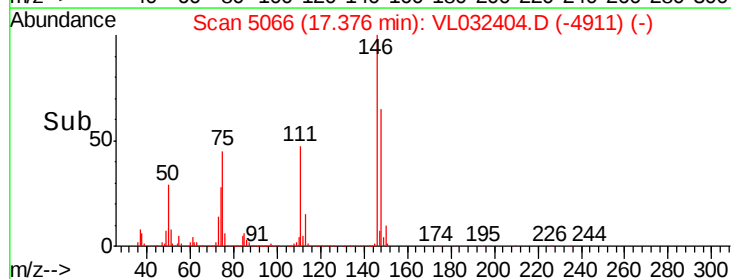
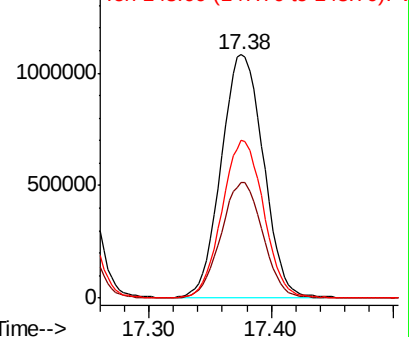


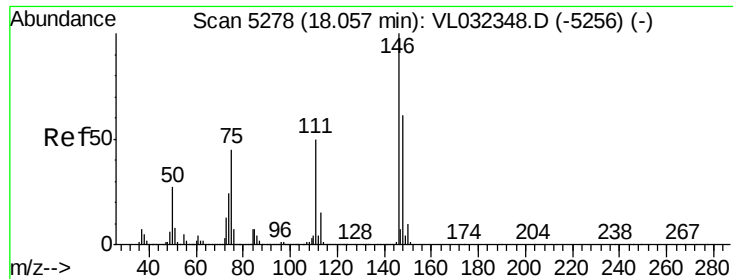
Abundance

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

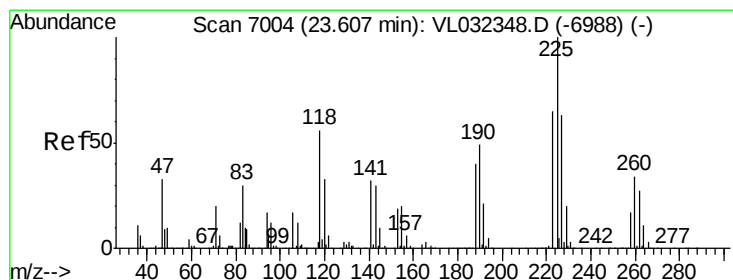
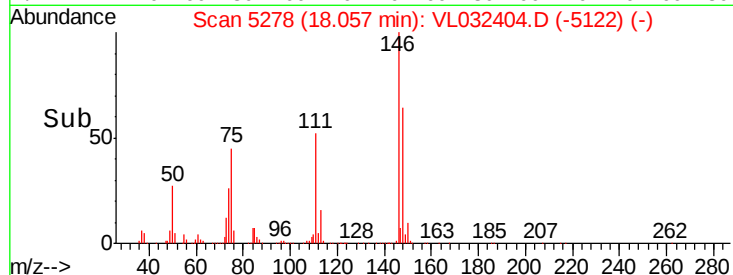
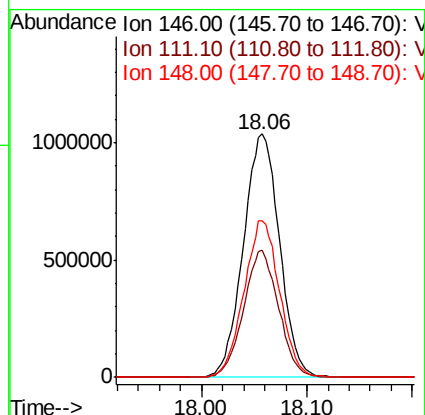
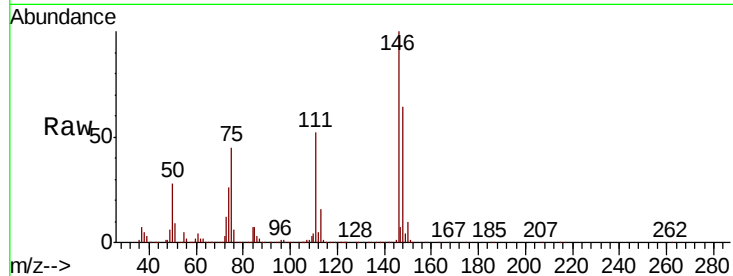




#77  
 1,2-Dichlorobenzene  
 Concen: 8.259 ppbv  
 RT: 18.06 min Scan# 5278  
 Delta R.T. 0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

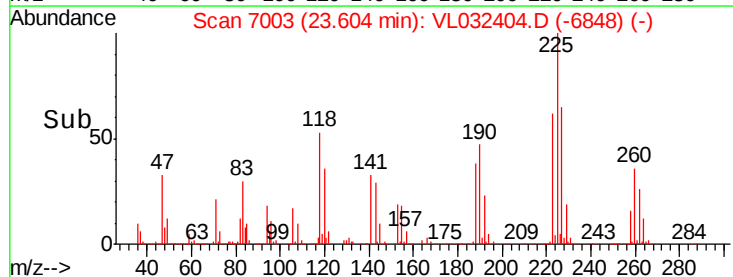
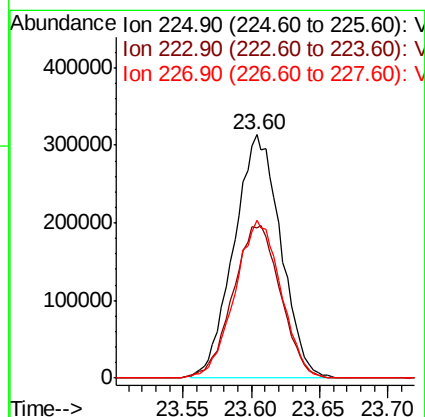
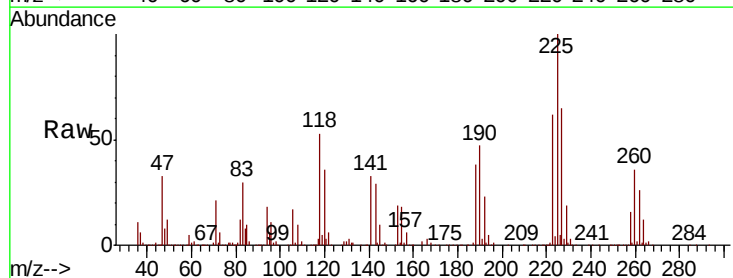
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

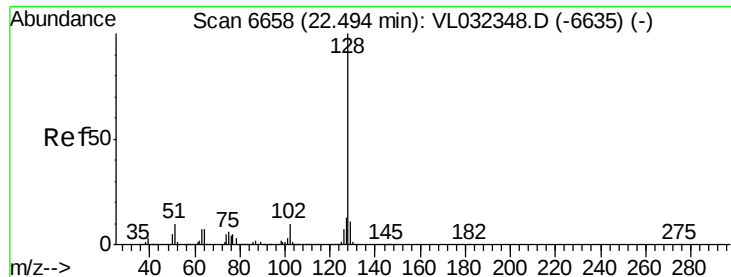
Tgt Ion:146 Resp: 2476448  
 Ion Ratio Lower Upper  
 146 100  
 111 50.6 25.2 75.6  
 148 63.7 31.8 95.4



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 7.377 ppbv  
 RT: 23.60 min Scan# 7003  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Tgt Ion:225 Resp: 742525  
 Ion Ratio Lower Upper  
 225 100  
 223 64.3 50.6 76.0  
 227 64.4 51.0 76.6





#79

Naphthalene

Concen: 8.469 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. -0.01 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

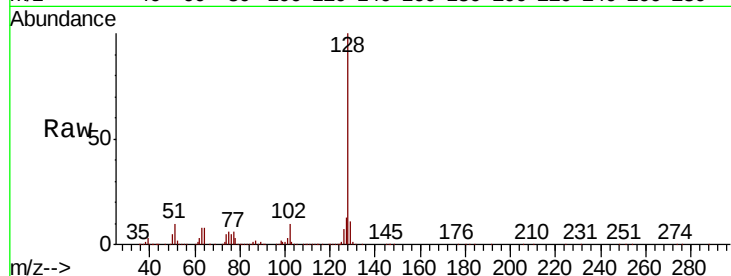
Tgt Ion:128 Resp: 4110664

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

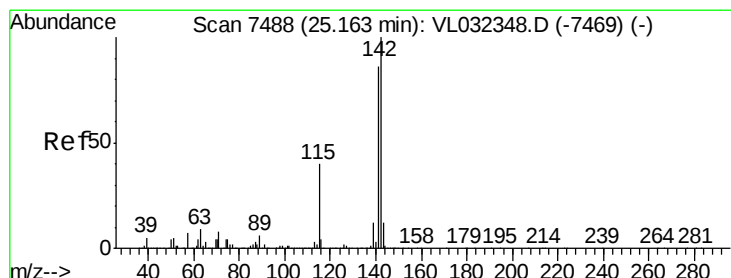
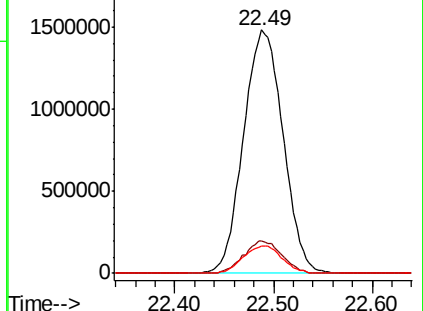
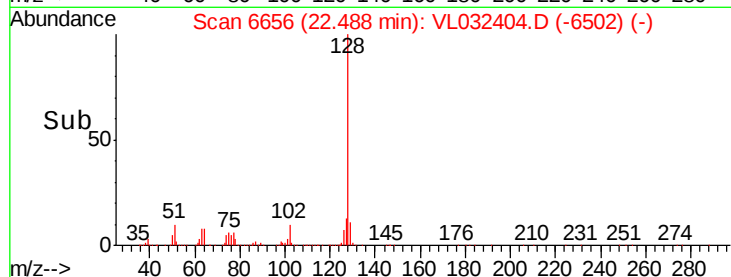
129 11.2 8.6 13.0



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: 15.218 ppbv

RT: 25.16 min Scan# 7488

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:01

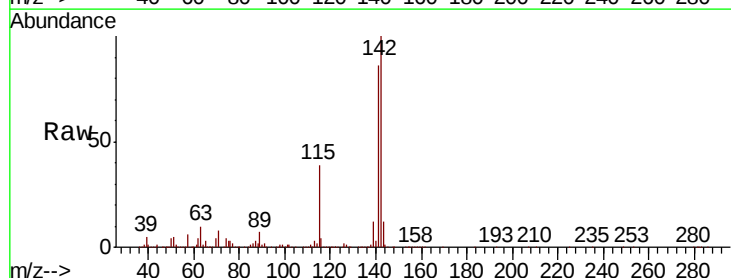
Tgt Ion:142 Resp: 1585418

Ion Ratio Lower Upper

142 100

141 83.5 66.7 100.1

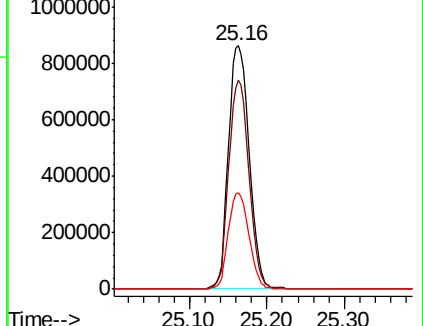
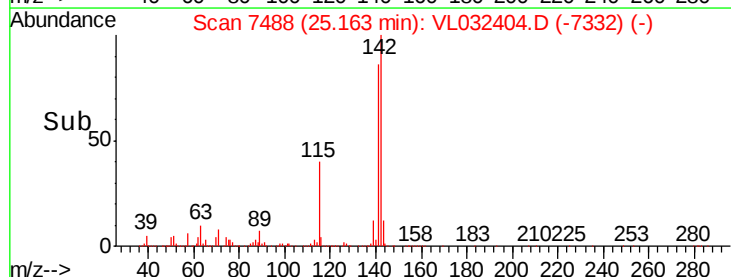
115 39.4 31.0 46.6

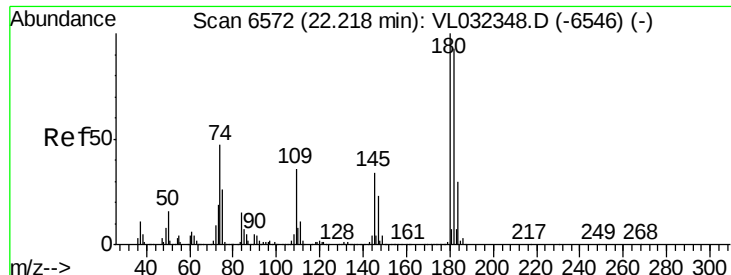


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

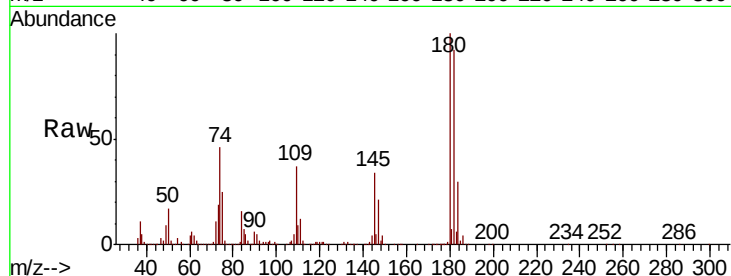




#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.629 ppbv  
 RT: 22.21 min Scan# 6571  
 Delta R.T. -0.00 min  
 Lab File: VL032404.D  
 Acq: 17 Aug 2018 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion:180 Resp: 1944380  
 Ion Ratio Lower Upper  
 180 100  
 182 95.7 76.1 114.1  
 184 30.3 24.2 36.2



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

