

Data File : VL034046.D  
Acq On : 18 Jul 2019 10:38  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Quant Time: Jul 18 12:16:00 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL070219AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Jul 02 19:31:31 2019  
QLast Update : Tue Jul 02 19:31:31 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.73  | 49   | 1099511  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.25  | 114  | 2823217  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.19 | 117  | 2640018  | 10.00 | ppbv  | -0.01    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.53  | 95    | 2030956  | 9.02     | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 90.20% |

| Target Compounds               |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1873649 | 8.258  | ppbv   | 96     |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 1256715 | 9.256  | ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50  | 632650  | 8.103  | ppbv   | 100    |
| 5) Vinyl Chloride              | 3.27 | 62  | 718253  | 8.182  | ppbv   | 99     |
| 6) Bromomethane                | 3.49 | 94  | 482164  | 9.314  | ppbv   | 98     |
| 7) Chloroethane                | 3.58 | 64  | 287483  | 9.163  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1933253 | 8.739  | ppbv   | 98     |
| 9) Propene                     | 3.02 | 41  | 436601  | 8.741  | ppbv   | 97     |
| 10) Heptane                    | 8.20 | 43  | 1251169 | 10.004 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.98 | 101 | 2037427 | 7.985  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.52 | 101 | 1493265 | 8.269  | ppbv   | 99     |
| 13) Ethanol                    | 3.62 | 45  | 155999  | 10.054 | ppbv   | 95     |
| 14) Bromoethene                | 3.76 | 108 | 610940  | 9.059  | ppbv   | 98     |
| 15) Acetone                    | 3.87 | 43  | 1447943 | 7.833  | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.34 | 39  | 606702  | 9.294  | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.33 | 59  | 1392054 | 9.445  | ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.32 | 96  | 681316  | 8.470  | ppbv   | 94     |
| 19) Isopropyl Alcohol          | 4.00 | 45  | 1031774 | 8.315  | ppbv   | 99     |
| 20) Methylene Chloride         | 4.38 | 84  | 577859  | 7.167  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.45 | 41  | 994525  | 8.628  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.93 | 96  | 670847  | 8.753  | ppbv   | 94     |
| 23) Vinyl Acetate              | 5.12 | 43  | 1766768 | 9.575  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.06 | 63  | 1463713 | 8.951  | ppbv   | 100    |
| 25) Ethyl Acetate              | 5.73 | 43  | 2326354 | 9.201  | ppbv   | 99     |
| 26) Hexane                     | 5.74 | 57  | 1099096 | 9.499  | ppbv   | 96     |
| 27) Carbon Disulfide           | 4.59 | 76  | 1738397 | 8.838  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.08 | 73  | 1882565 | 9.608  | ppbv   | 99     |
| 29) Chloroform                 | 5.82 | 83  | 1903527 | 8.754  | ppbv   | 97     |
| 30) Cyclohexane                | 7.20 | 84  | 480323  | 5.375  | ppbv # | 7      |
| 31) cis-1,2-Dichloroethene     | 5.61 | 61  | 1084321 | 9.700  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.58 | 97  | 1913891 | 8.684  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.30 | 43  | 1420851 | 9.509  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.09 | 117 | 2011924 | 9.002  | ppbv   | 97     |
| 36) Benzene                    | 6.97 | 78  | 2195762 | 9.940  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.38 | 62  | 1461479 | 8.980  | ppbv   | 99     |
| 38) Trichloroethene            | 7.92 | 130 | 945922  | 9.624  | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.70 | 63  | 802290  | 9.767  | ppbv   | 97     |
| 40) 1,4-Dioxane                | 7.91 | 88  | 344023  | 9.071  | ppbv # | 99     |
| 41) Tetrahydrofuran            | 6.11 | 42  | 764460  | 10.433 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.88 | 83  | 2079128 | 9.522  | ppbv   | 96     |
| 43) Methyl Methacrylate        | 8.10 | 69  | 887662  | 10.591 | ppbv   | 99     |

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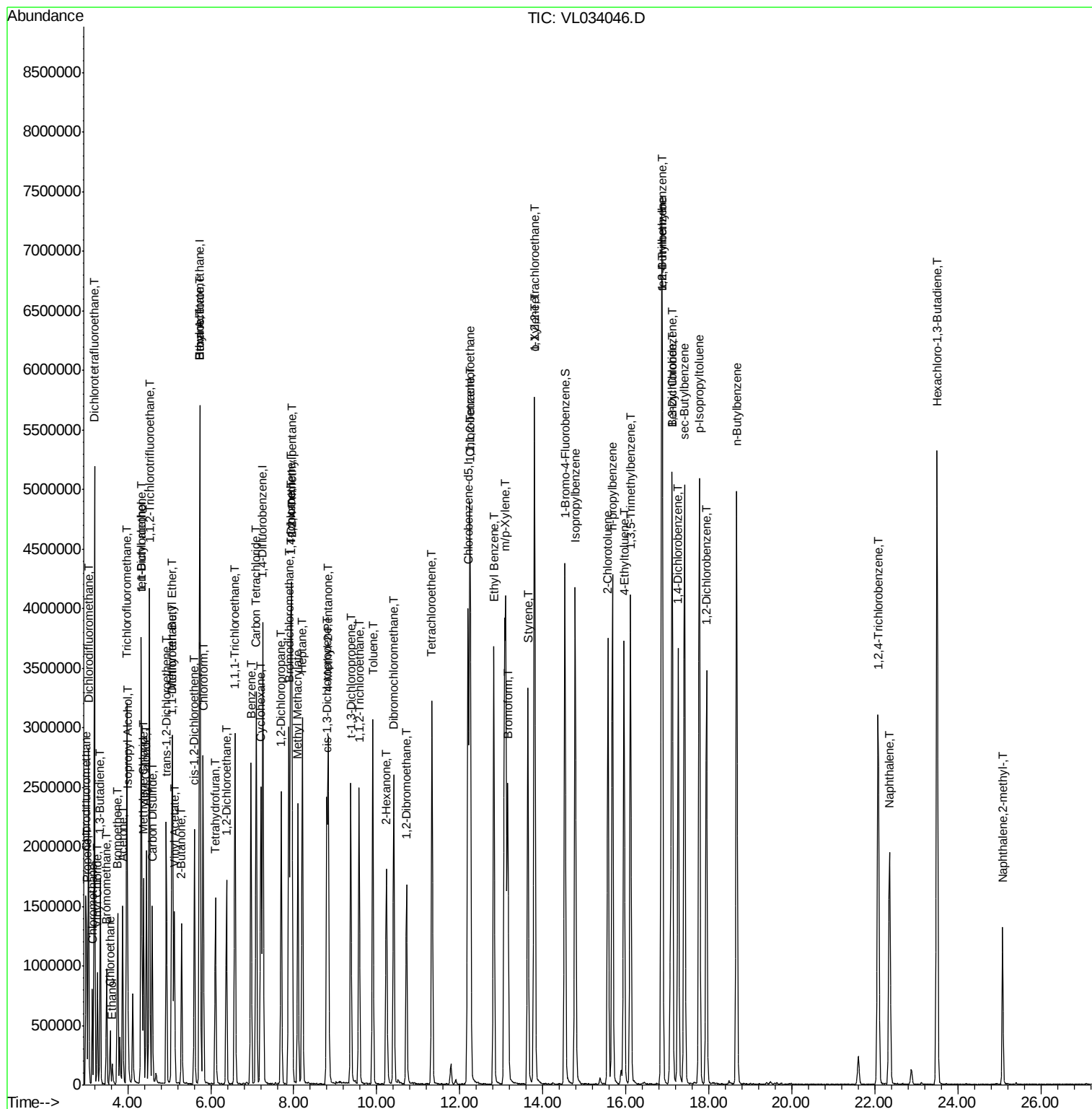
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.95  | 57   | 3772728  | 9.894  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.37  | 75   | 1496048  | 13.650 | ppbv   | 92       |
| 46) cis-1,3-Dichloropropene   | 8.80  | 75   | 1300692  | 10.247 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.57  | 97   | 861820   | 8.344  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.41 | 129  | 1623283  | 8.237  | ppbv   | 99       |
| 49) Bromoform                 | 13.15 | 173  | 1475148  | 8.762  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.83  | 43   | 2192448  | 9.888  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.23 | 43   | 1605846  | 8.981  | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.33 | 164  | 429659   | 4.519  | ppbv   | 96       |
| 53) Toluene                   | 9.90  | 91   | 2418583  | 9.564  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.71 | 107  | 1352332  | 8.872  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.23 | 131  | 1105630  | 9.370  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.25 | 112  | 1885881  | 8.972  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.82 | 91   | 3354237  | 10.565 | ppbv   | 99       |
| 59) m/p-Xylene                | 13.10 | 91   | 3196260  | 11.119 | ppbv # | 48       |
| 60) o-Xylene                  | 13.80 | 91   | 2797318  | 9.727  | ppbv   | 99       |
| 61) Styrene                   | 13.64 | 104  | 1966791  | 10.334 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.78 | 105  | 3789777  | 8.573  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.79 | 83   | 1937061  | 8.702  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.68 | 120  | 992121   | 8.654  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 16.86 | 119  | 3585402  | 9.538  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.11 | 91   | 1535165  | 7.982  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.42 | 105  | 5034861  | 9.542  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.77 | 119  | 4140118  | 9.516  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.67 | 91   | 4279183  | 9.363  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.57 | 91   | 2937638  | 9.080  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.95 | 105  | 3309968  | 8.963  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.11 | 105  | 3223531  | 9.381  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.88 | 105  | 3376745  | 8.873  | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 17.12 | 146  | 1959371  | 8.105  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.26 | 146  | 1890293  | 8.302  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.94 | 146  | 1859748  | 8.308  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.50 | 225  | 1536192  | 8.065  | ppbv   | 99       |
| 79) Naphthalene               | 22.35 | 128  | 2608907  | 8.154  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.08 | 142  | 699248   | 6.005  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 22.08 | 180  | 1561444  | 7.598  | ppbv   | 99       |

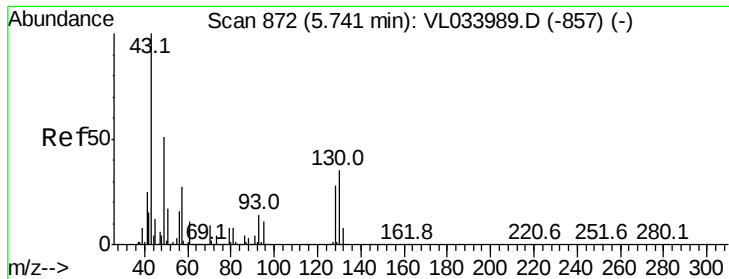
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

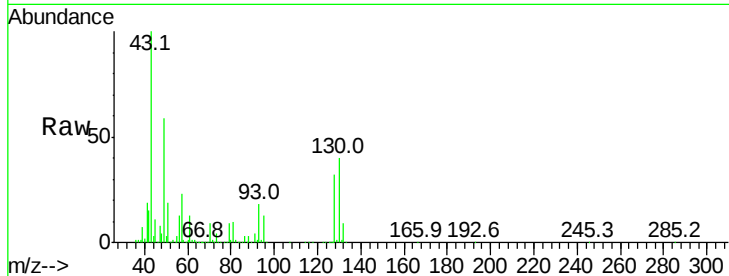
Tgt Ion: 49 Resp: 1099511

Ion Ratio Lower Upper

49 100

128 54.7 27.9 83.6

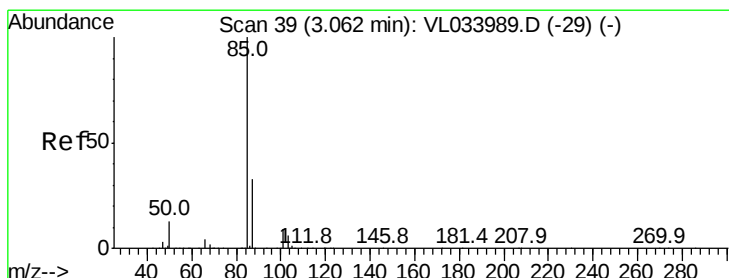
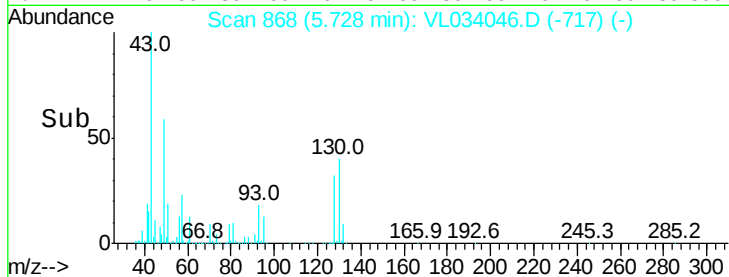
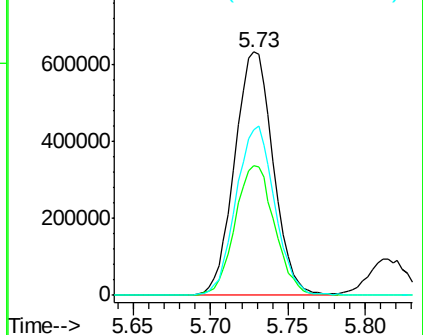
130 70.1 35.8 107.4



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: 8.258 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL034046.D

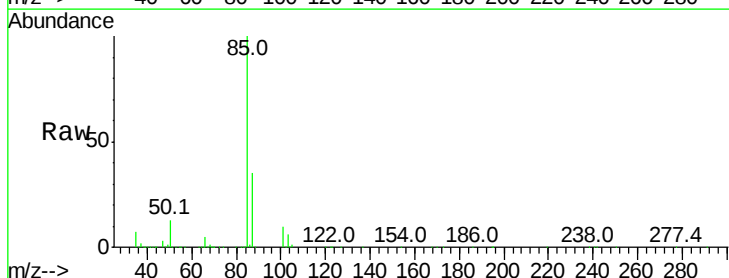
Acq: 18 Jul 2019 10:38

Tgt Ion: 85 Resp: 1873649

Ion Ratio Lower Upper

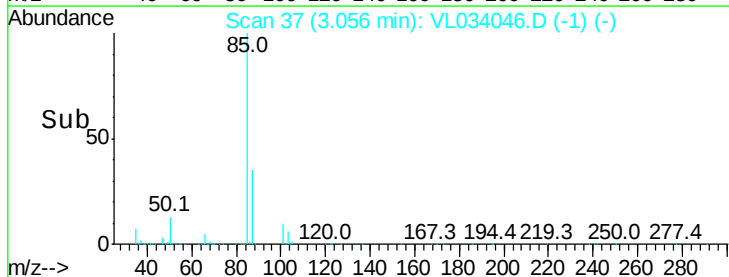
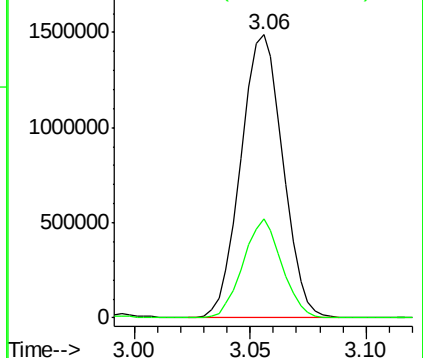
85 100

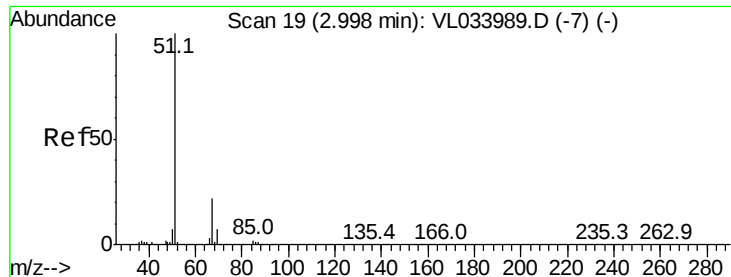
87 34.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

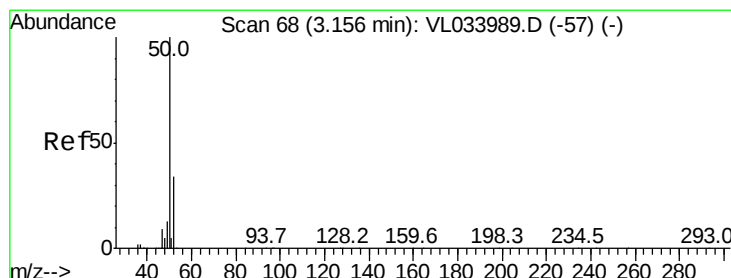
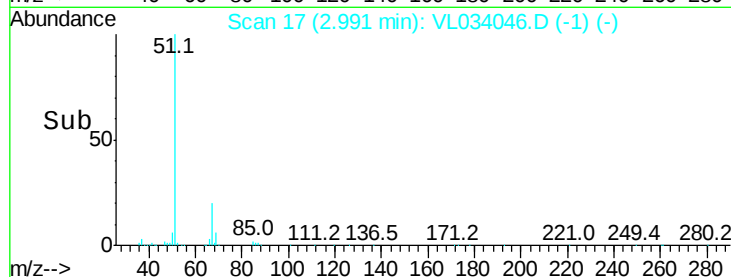
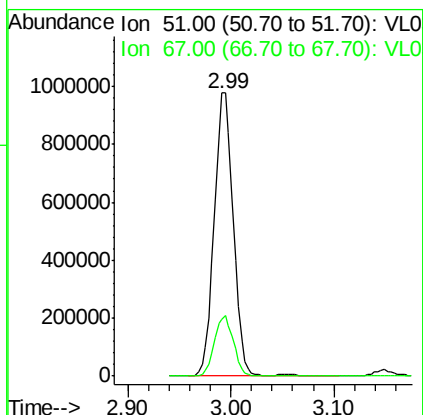
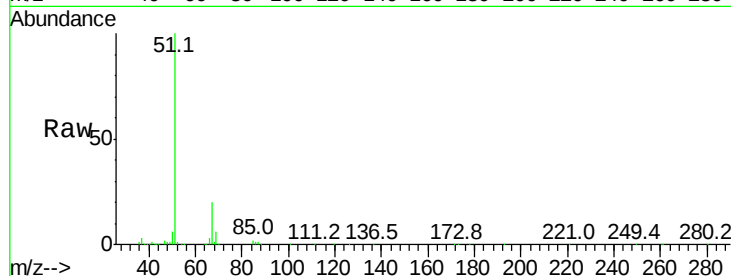




#3  
 Chlorodifluoromethane  
 Concen: 9.256 ppbv  
 RT: 2.99 min Scan# 17  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

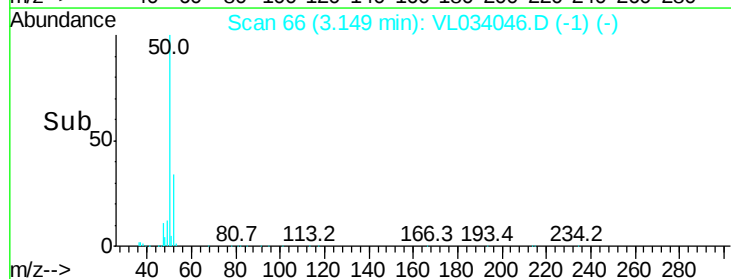
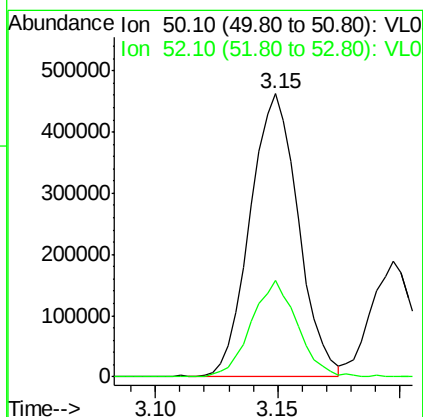
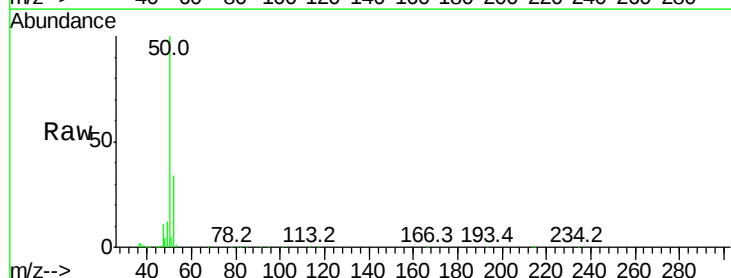
Instrument :  
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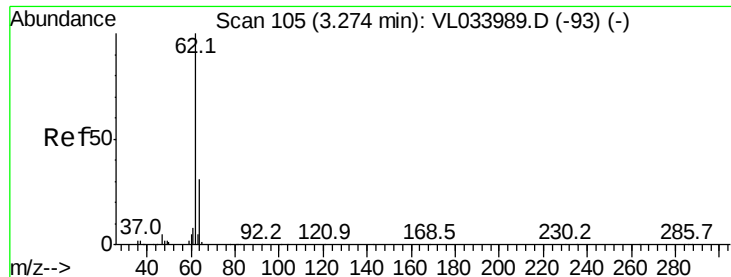
Tgt Ion: 51 Resp: 1256715  
 Ion Ratio Lower Upper  
 51 100  
 67 21.1 17.3 25.9



#4  
 Chloromethane  
 Concen: 8.103 ppbv  
 RT: 3.15 min Scan# 66  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

Tgt Ion: 50 Resp: 632650  
 Ion Ratio Lower Upper  
 50 100  
 52 34.3 27.4 41.0





#5

Vinyl Chloride

Concen: 8.182 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

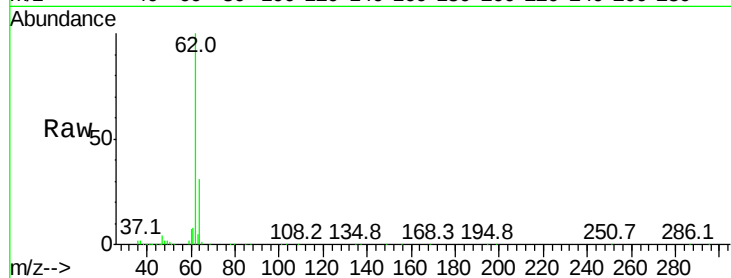
VSTDCCC010EC

Tgt Ion: 62 Resp: 718253

Ion Ratio Lower Upper

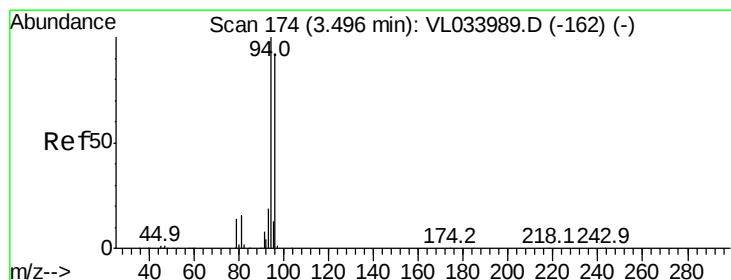
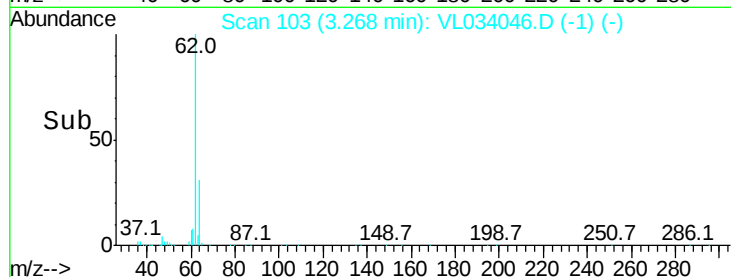
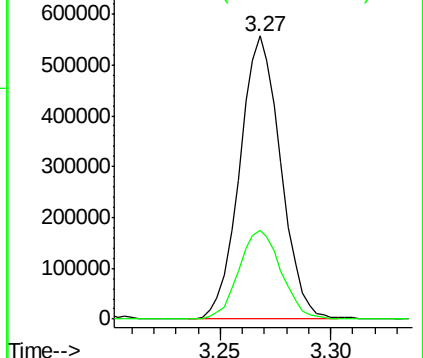
62 100

64 31.3 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.314 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034046.D

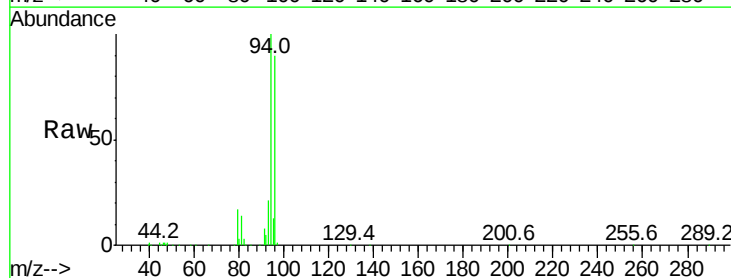
Acq: 18 Jul 2019 10:38

Tgt Ion: 94 Resp: 482164

Ion Ratio Lower Upper

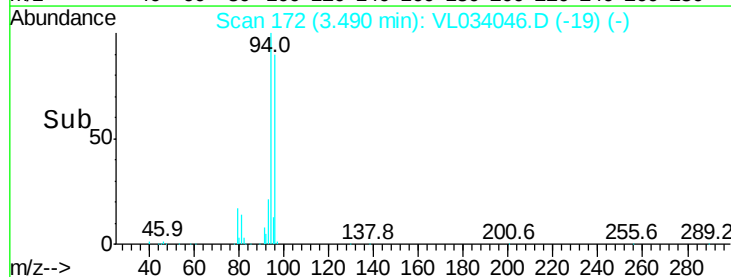
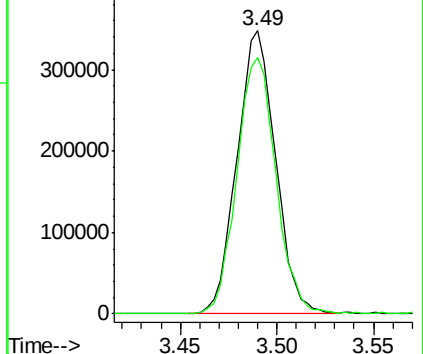
94 100

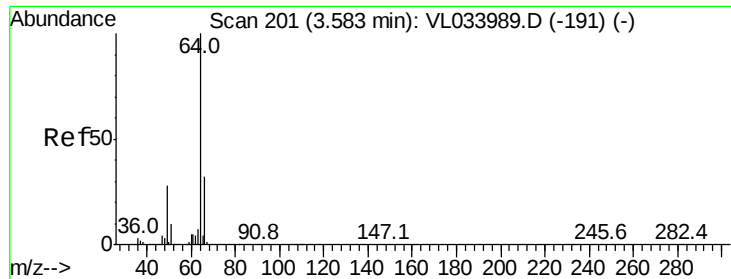
96 90.3 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.163 ppbv

RT: 3.58 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL034046.D

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ClientSampleId :

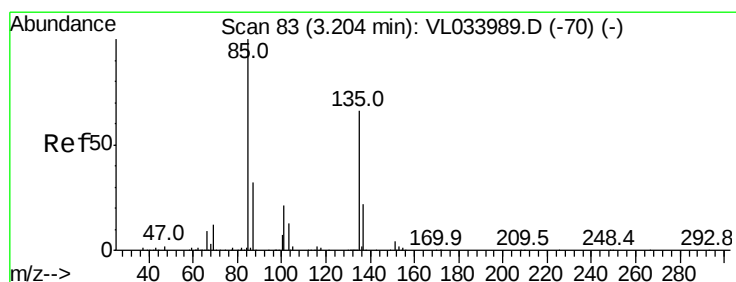
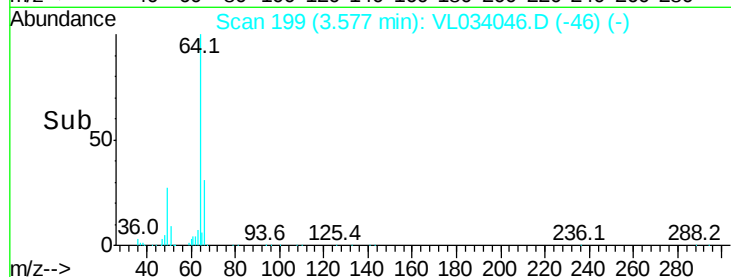
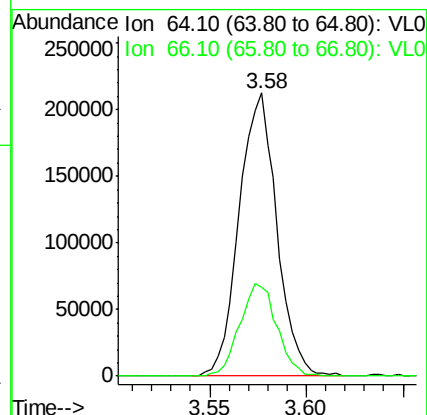
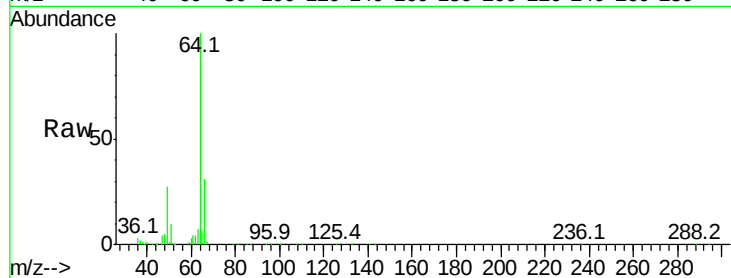
VSTDCCC010EC

Tgt Ion: 64 Resp: 287483

Ion Ratio Lower Upper

64 100

66 31.3 25.3 37.9



#8

Dichlorotetrafluoroethane

Concen: 8.739 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034046.D

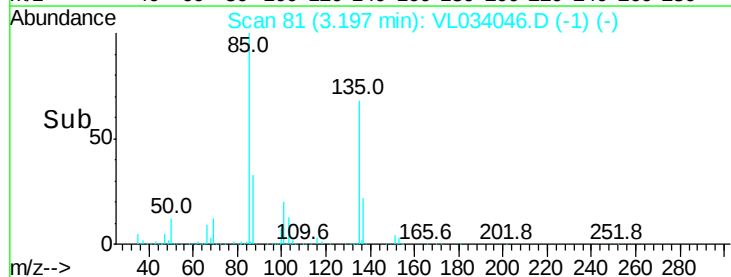
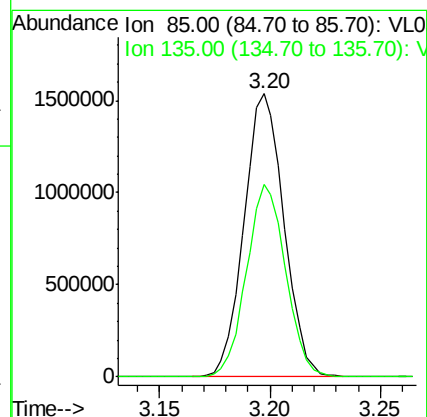
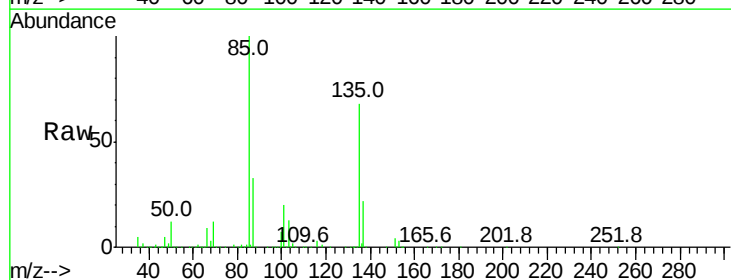
Acq: 18 Jul 2019 10:38

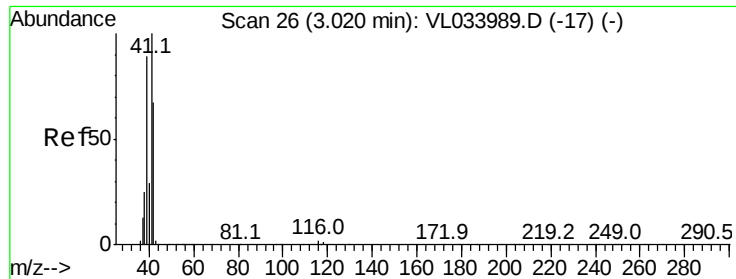
Tgt Ion: 85 Resp: 1933253

Ion Ratio Lower Upper

85 100

135 66.9 55.0 82.4





#9

Propene

Concen: 8.741 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

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ClientSampleId :

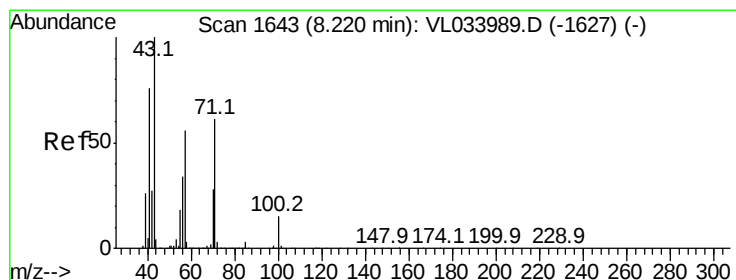
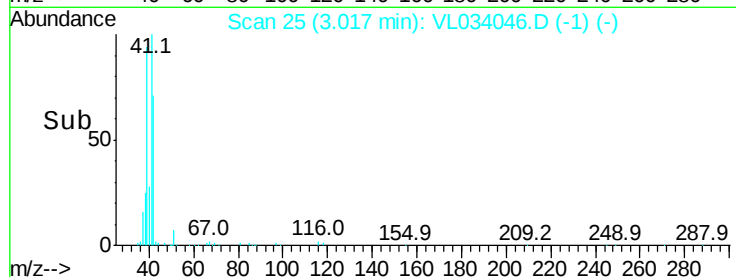
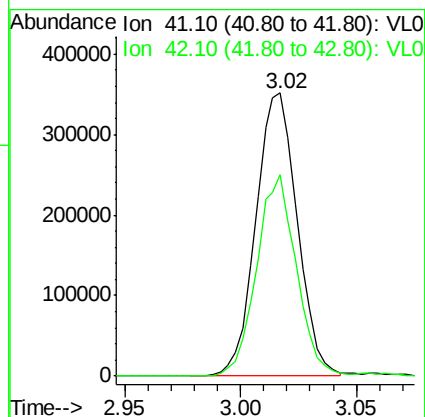
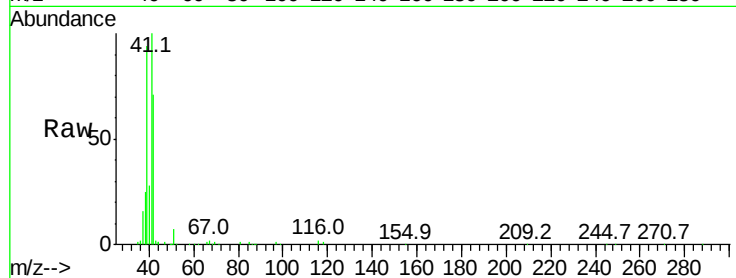
VSTDCCC010EC

Tgt Ion: 41 Resp: 436601

Ion Ratio Lower Upper

41 100

42 69.2 57.1 85.7



#10

Heptane

Concen: 10.004 ppbv

RT: 8.20 min Scan# 1638

Delta R.T. -0.02 min

Lab File: VL034046.D

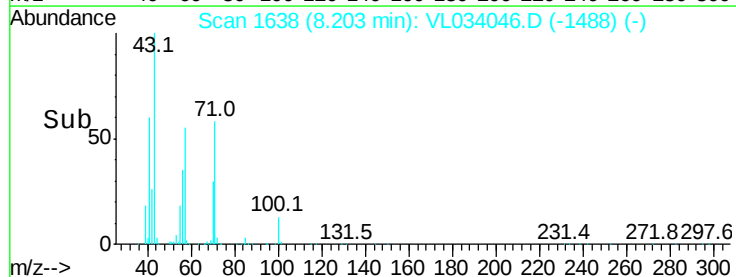
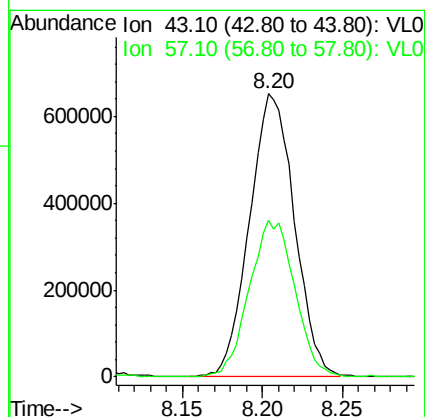
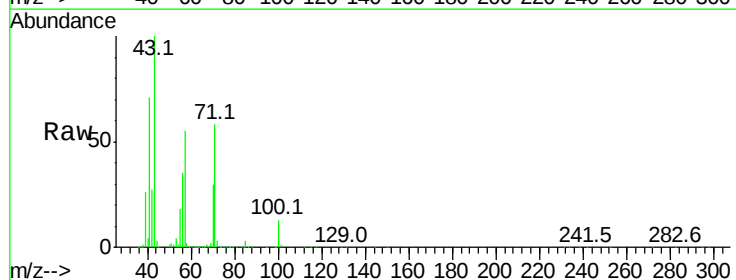
Acq: 18 Jul 2019 10:38

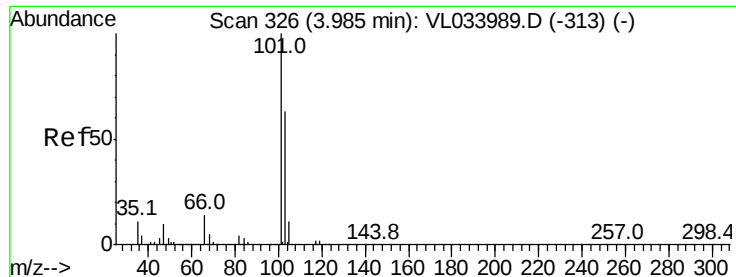
Tgt Ion: 43 Resp: 1251169

Ion Ratio Lower Upper

43 100

57 56.1 44.6 66.8





#11

Trichlorofluoromethane

Concen: 7.985 ppbv

RT: 3.98 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

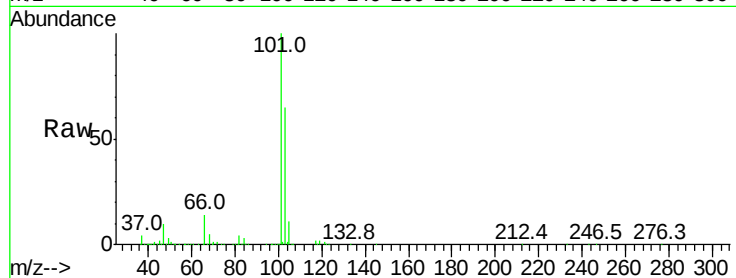
VSTDCCC010EC

Tgt Ion:101 Resp: 2037427

Ion Ratio Lower Upper

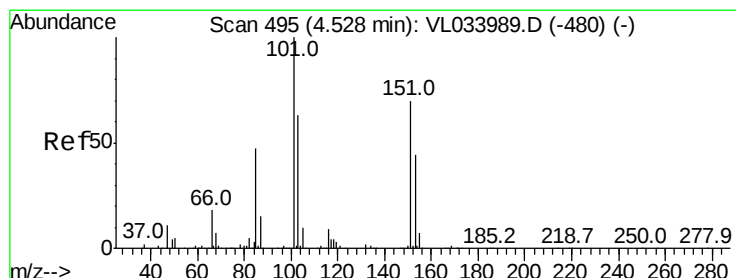
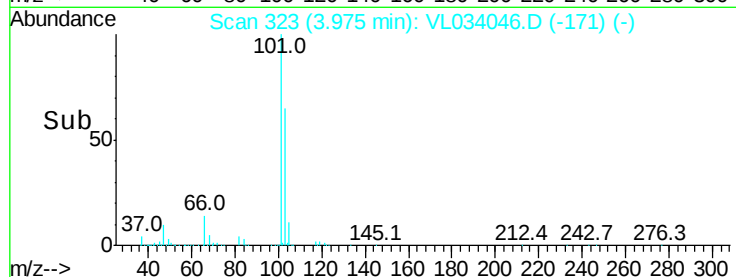
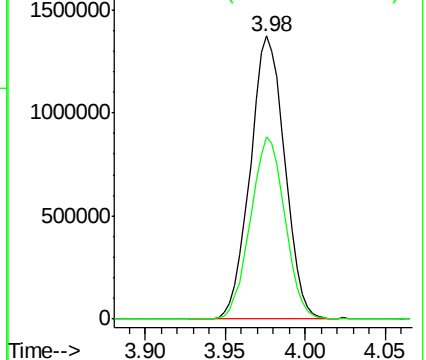
101 100

103 64.5 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.269 ppbv

RT: 4.52 min Scan# 493

Delta R.T. -0.01 min

Lab File: VL034046.D

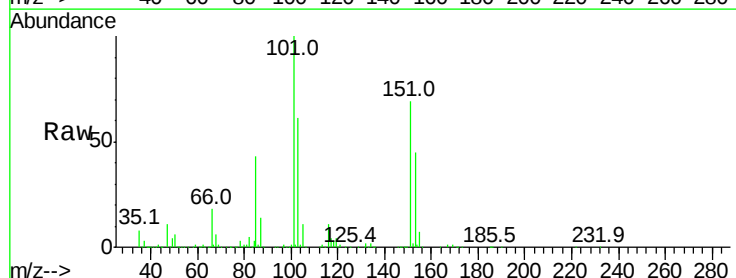
Acq: 18 Jul 2019 10:38

Tgt Ion:101 Resp: 1493265

Ion Ratio Lower Upper

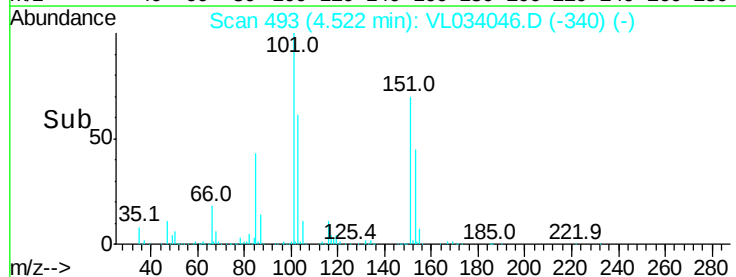
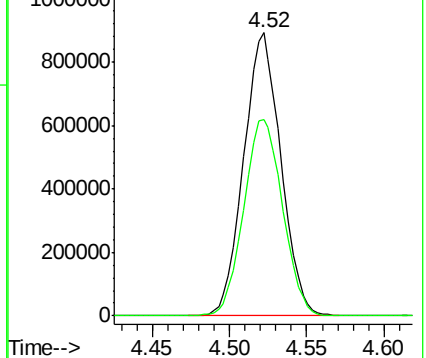
101 100

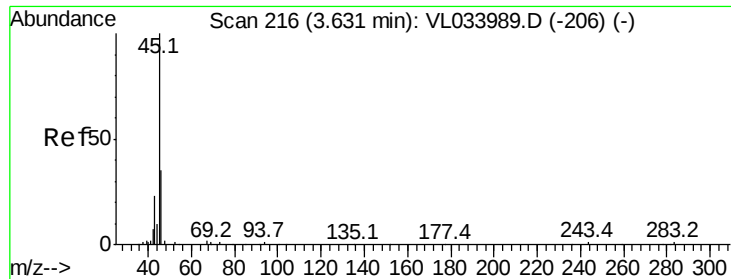
151 72.6 59.0 88.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.054 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

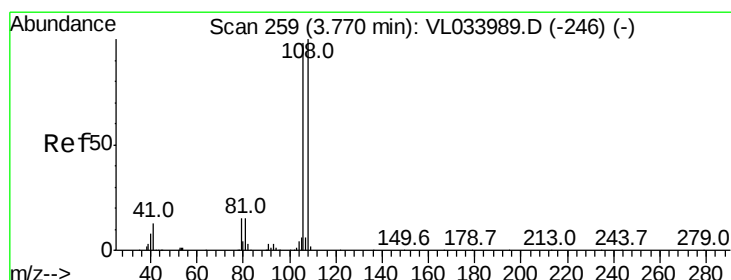
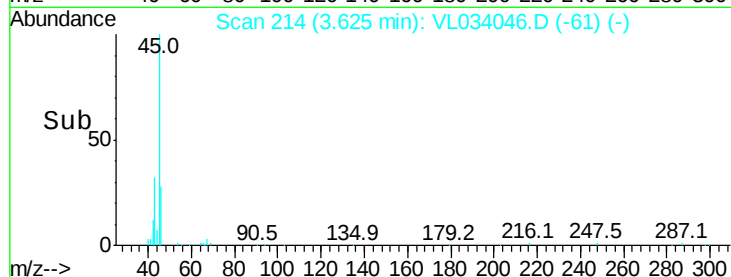
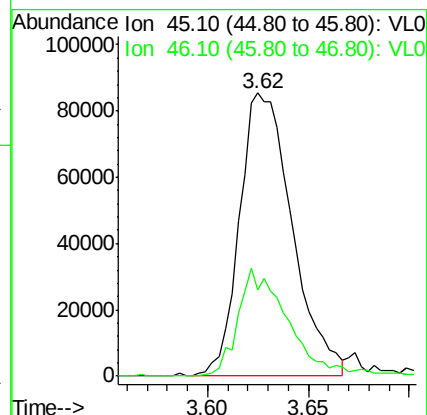
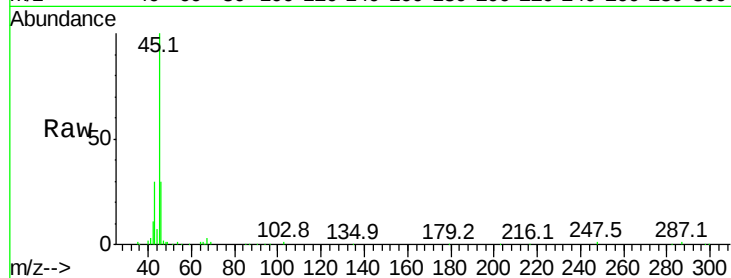
VSTDCCC010EC

Tgt Ion: 45 Resp: 155999

Ion Ratio Lower Upper

45 100

46 37.4 16.2 64.6



#14

Bromoethene

Concen: 9.059 ppbv

RT: 3.76 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

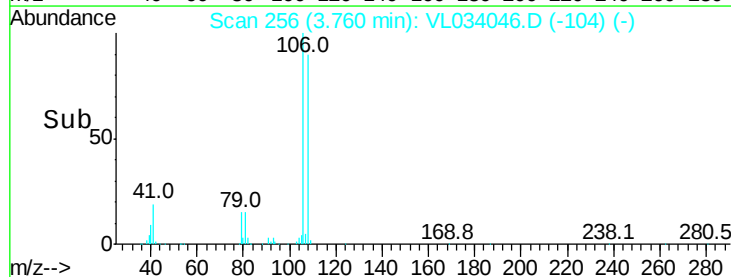
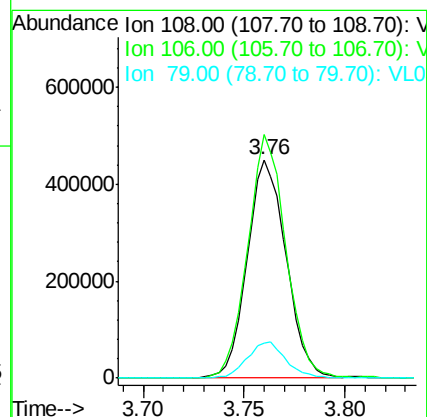
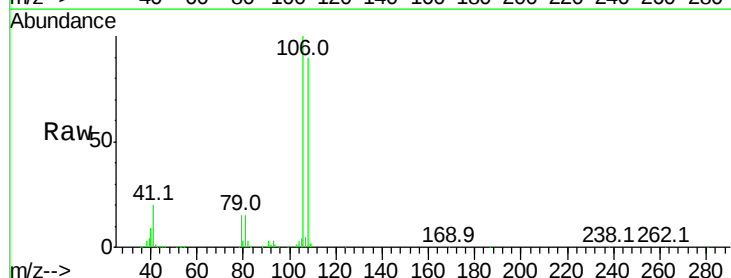
Tgt Ion: 108 Resp: 610940

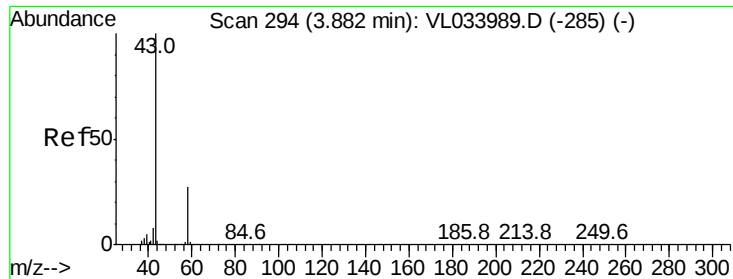
Ion Ratio Lower Upper

108 100

106 109.7 85.6 128.4

79 16.7 14.0 21.0





#15

Acetone

Concen: 7.833 ppbv

RT: 3.87 min Scan# 291

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

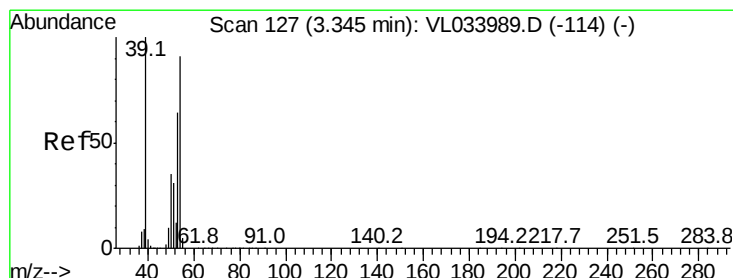
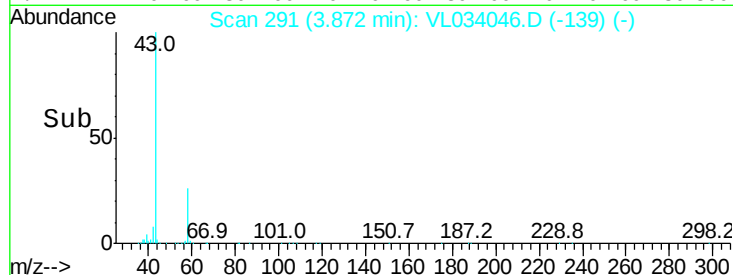
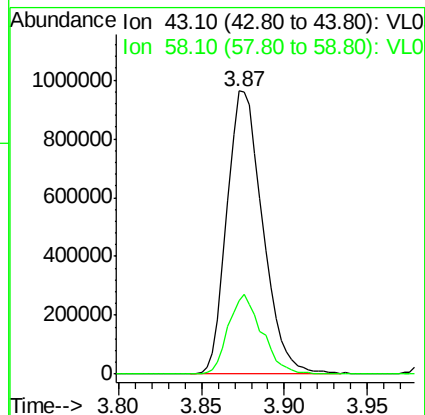
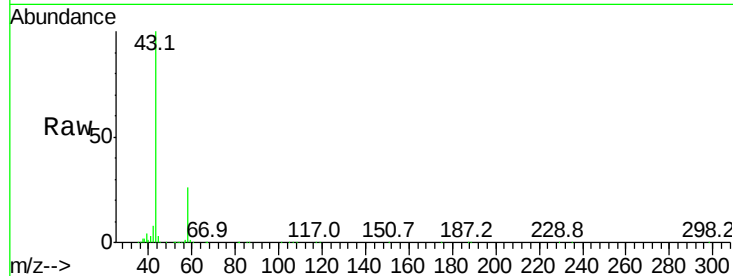
VSTDCCC010EC

Tgt Ion: 43 Resp: 1447943

Ion Ratio Lower Upper

43 100

58 26.6 21.4 32.0



#16

1,3-Butadiene

Concen: 9.294 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.00 min

Lab File: VL034046.D

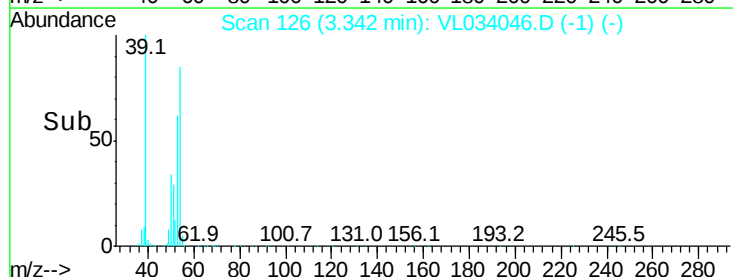
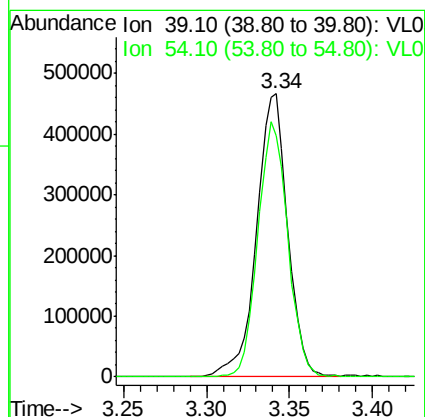
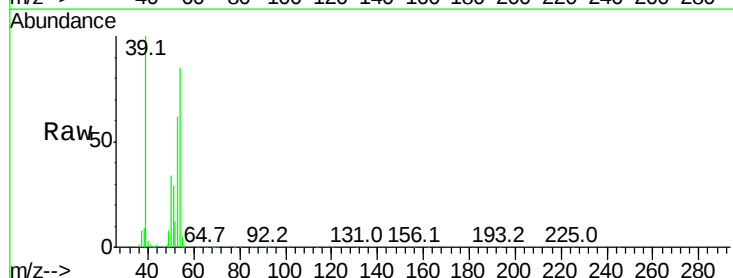
Acq: 18 Jul 2019 10:38

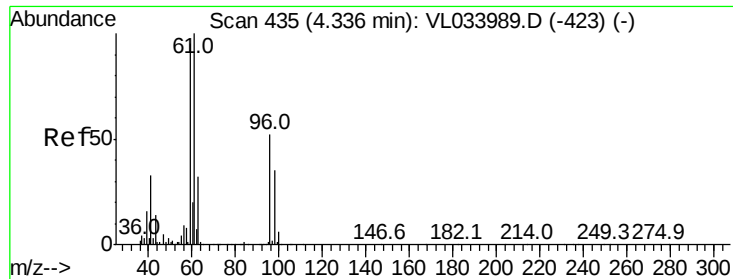
Tgt Ion: 39 Resp: 606702

Ion Ratio Lower Upper

39 100

54 87.1 71.4 107.2



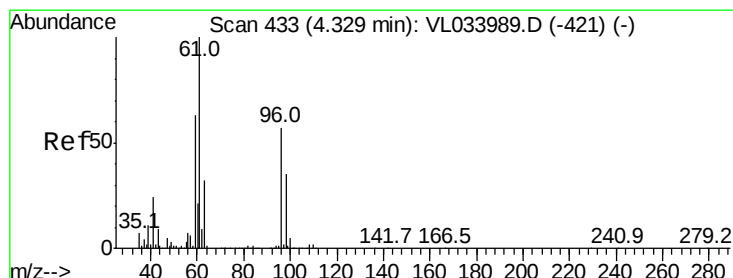
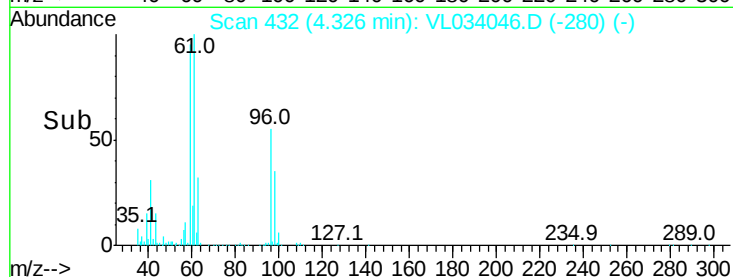
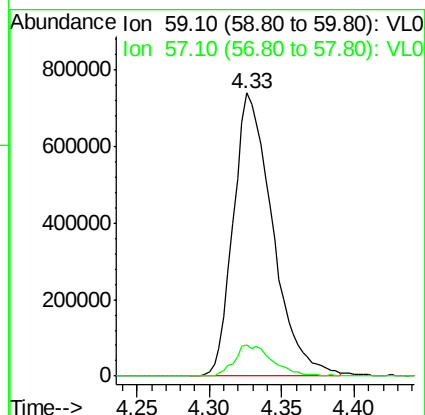
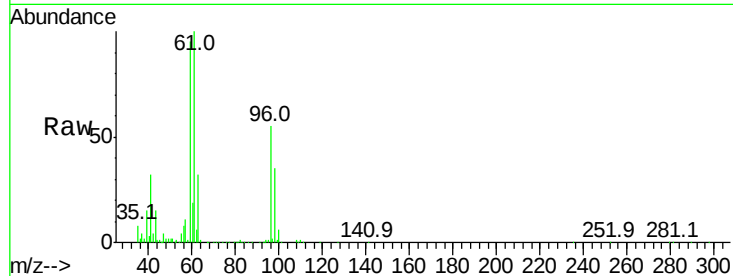


#17

tert-Butyl alcohol  
Concen: 9.445 ppbv  
RT: 4.33 min Scan# 432  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

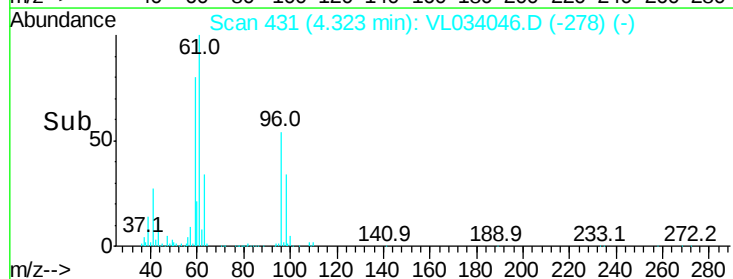
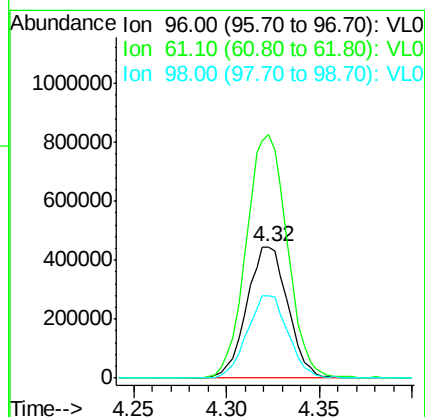
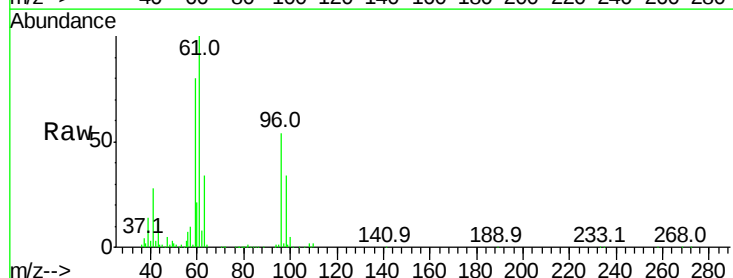
Tgt Ion: 59 Resp: 1392054  
Ion Ratio Lower Upper  
59 100  
57 11.0 8.2 12.2

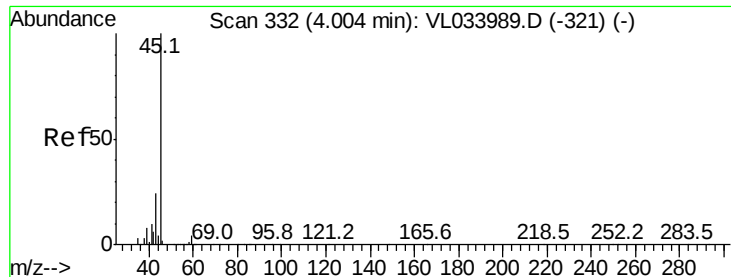


#18

1,1-Dichloroethene  
Concen: 8.470 ppbv  
RT: 4.32 min Scan# 431  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion: 96 Resp: 681316  
Ion Ratio Lower Upper  
96 100  
61 184.9 139.4 209.0  
98 62.8 49.4 74.0





#19

Isopropyl Alcohol

Concen: 8.315 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

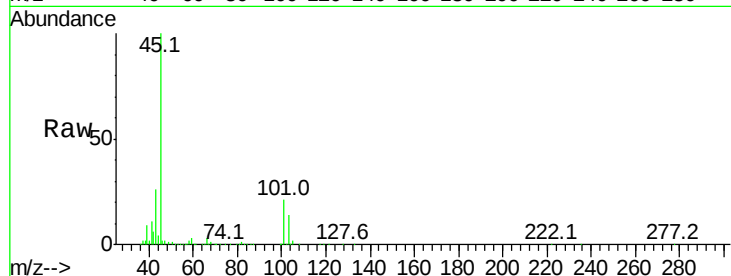
VSTDCCC010EC

Tgt Ion: 45 Resp: 1031774

Ion Ratio Lower Upper

45 100

58 2.3 1.7 2.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

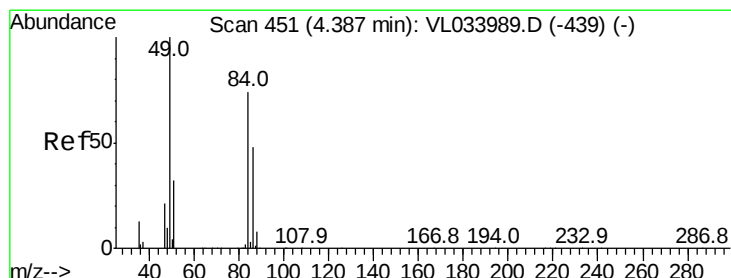
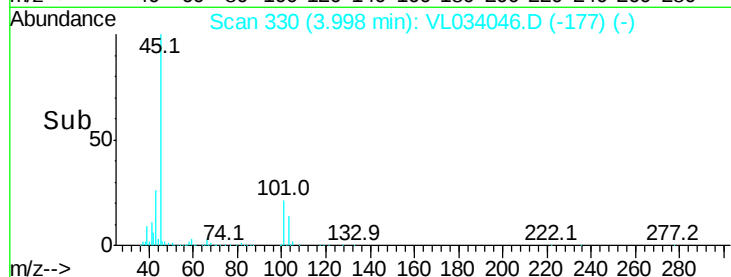
400000

200000

0

3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: 7.167 ppbv

RT: 4.38 min Scan# 448

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Tgt Ion: 84 Resp: 577859

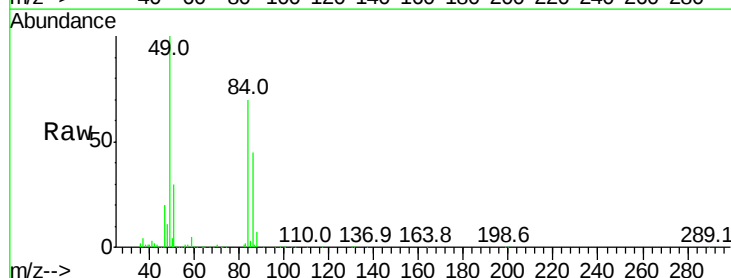
Ion Ratio Lower Upper

84 100

49 141.4 107.6 161.4

51 42.0 35.0 52.6

86 63.9 52.1 78.1



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

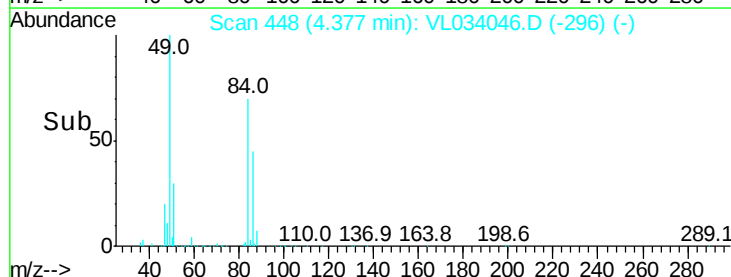
400000

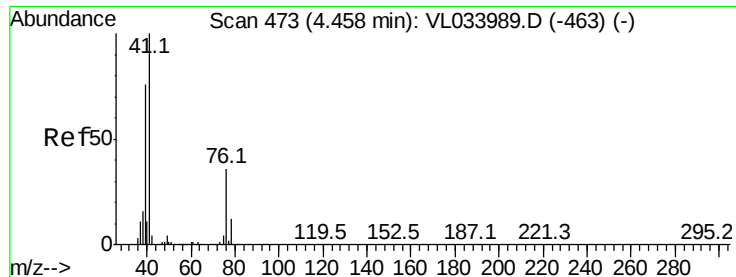
200000

0

4.35 4.40 4.45

Time-->





#21

Allyl Chloride

Concen: 8.628 ppbv

RT: 4.45 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

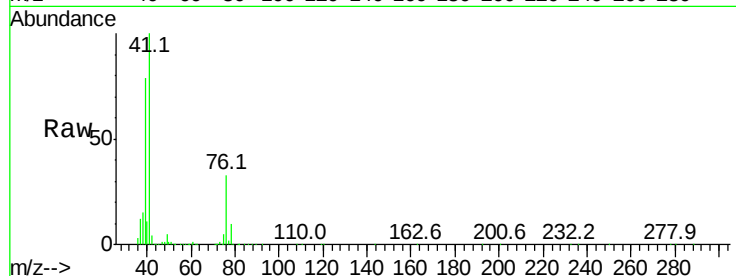
Tgt Ion: 41 Resp: 994525

Ion Ratio Lower Upper

41 100

76 33.0 26.8 40.2

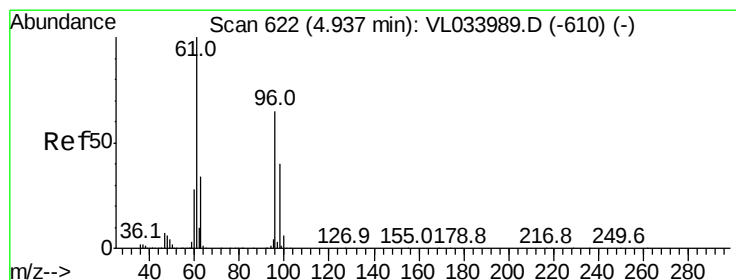
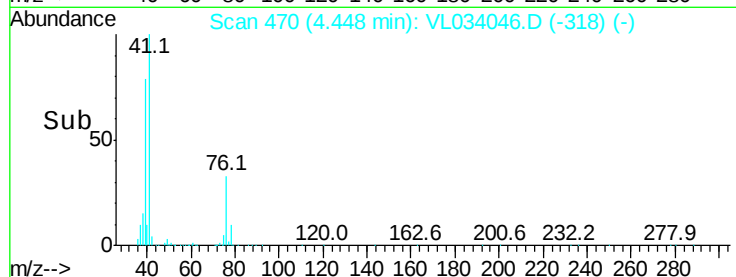
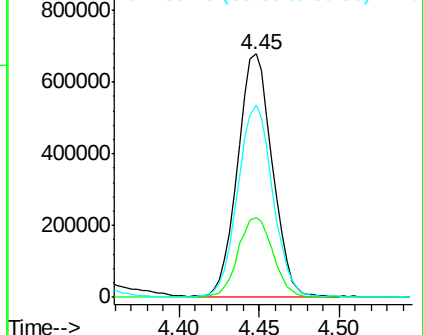
39 80.5 63.1 94.7



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: 8.753 ppbv

RT: 4.93 min Scan# 620

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

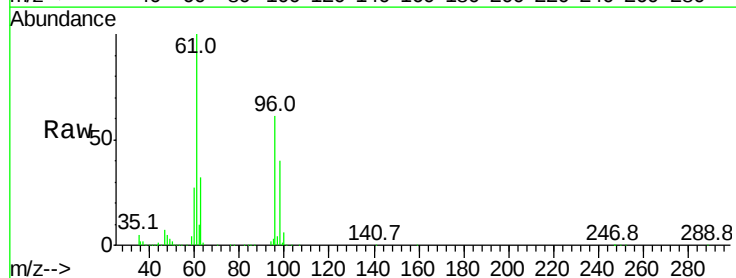
Tgt Ion: 96 Resp: 670847

Ion Ratio Lower Upper

96 100

61 162.5 122.9 184.3

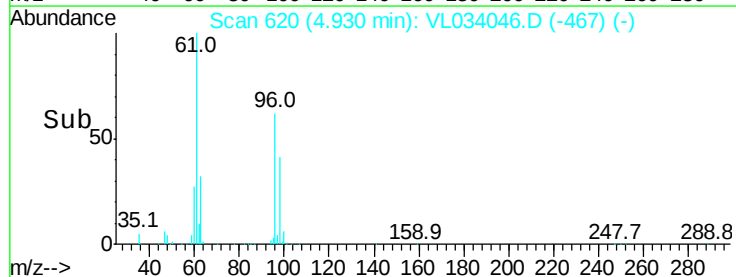
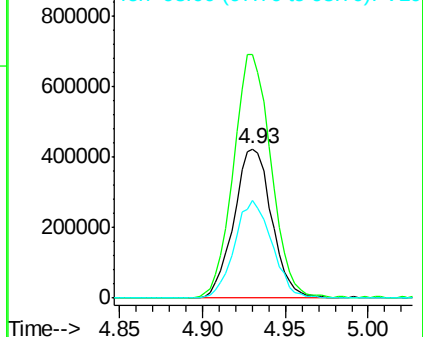
98 65.8 49.6 74.4

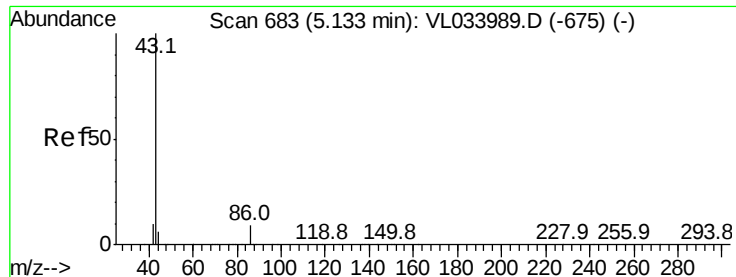


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.575 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

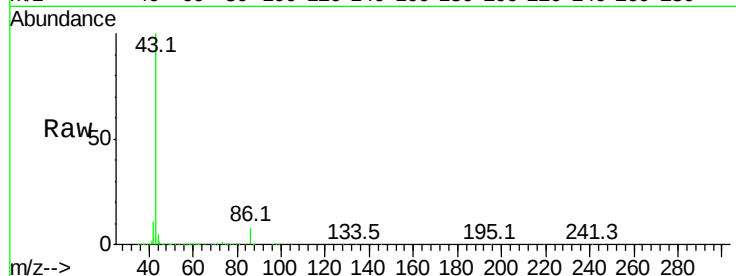
Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

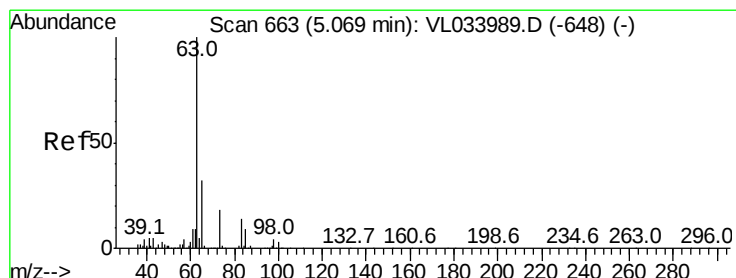
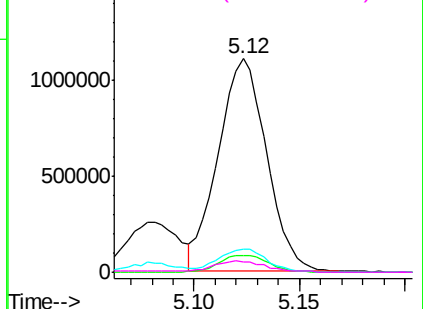
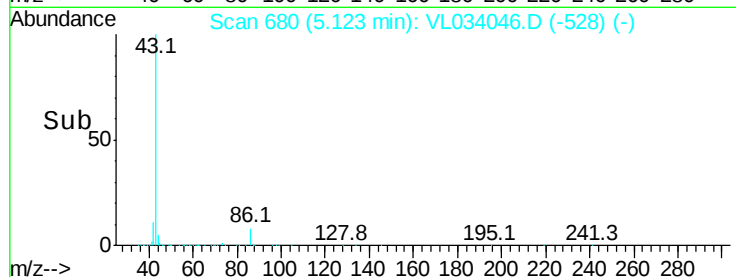
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 43 Resp: 1766768

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.6   | 6.6   | 9.8   |
| 42  | 10.6  | 8.3   | 12.5  |
| 44  | 4.9   | 4.3   | 6.5   |



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 86.10 (85.80 to 86.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0  
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.951 ppbv

RT: 5.06 min Scan# 660

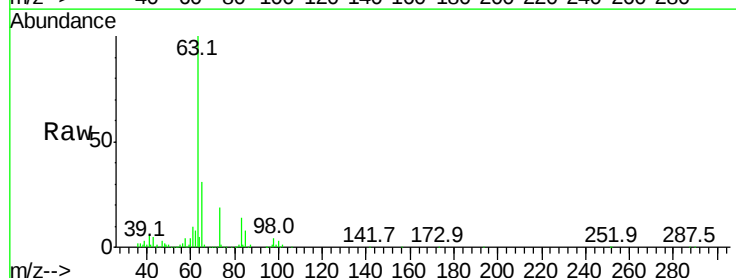
Delta R.T. -0.01 min

Lab File: VL034046.D

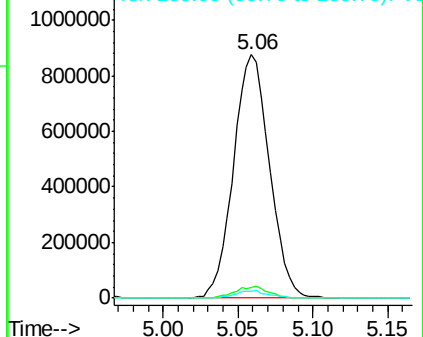
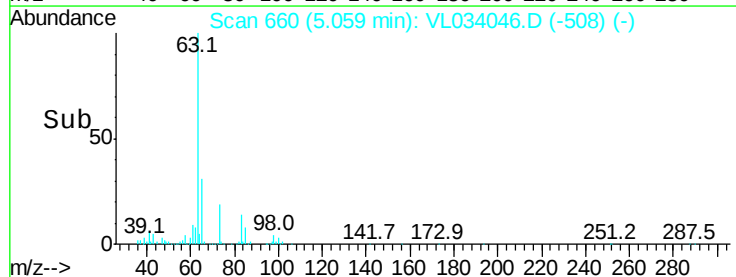
Acq: 18 Jul 2019 10:38

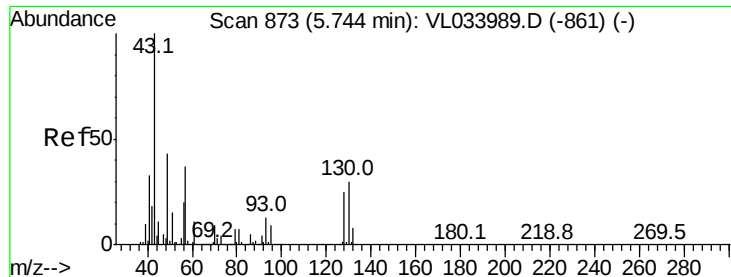
Tgt Ion: 63 Resp: 1463713

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.4   | 2.2   | 6.6   |
| 100 | 2.9   | 1.4   | 4.2   |



Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.201 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2326354

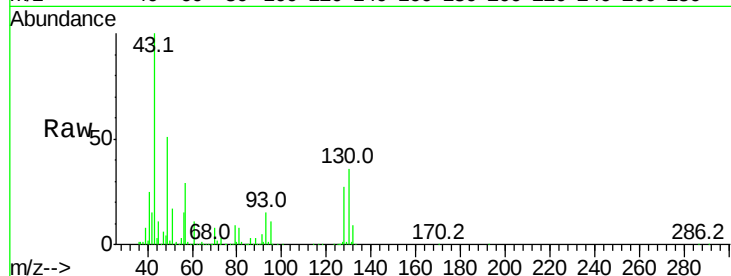
Ion Ratio Lower Upper

43 100

45 9.9 8.1 12.1

61 9.9 8.1 12.1

70 7.6 6.3 9.5

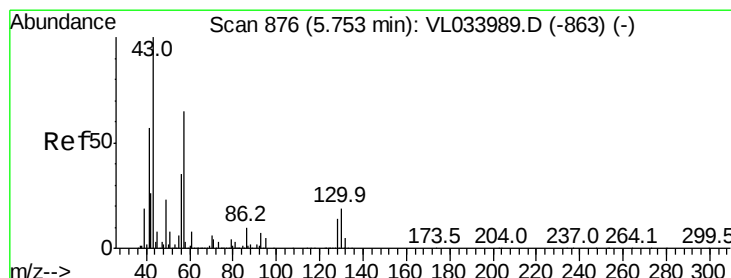
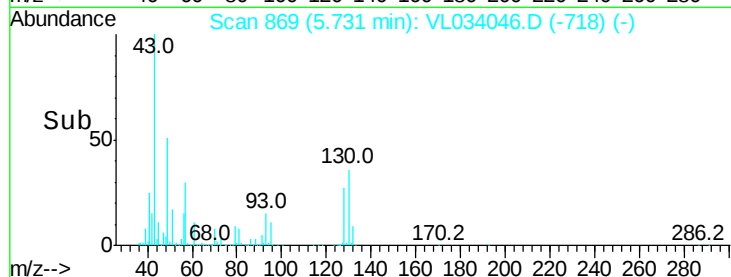
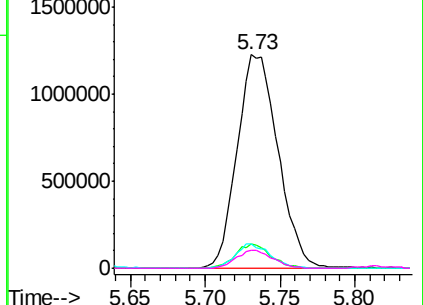


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.499 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Tgt Ion: 57 Resp: 1099096

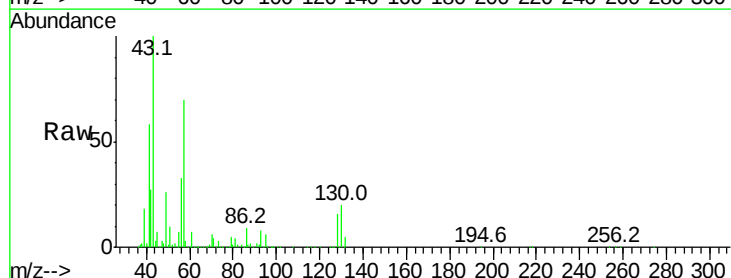
Ion Ratio Lower Upper

57 100

41 87.2 70.6 105.8

43 212.5 177.6 266.4

56 52.1 42.6 64.0

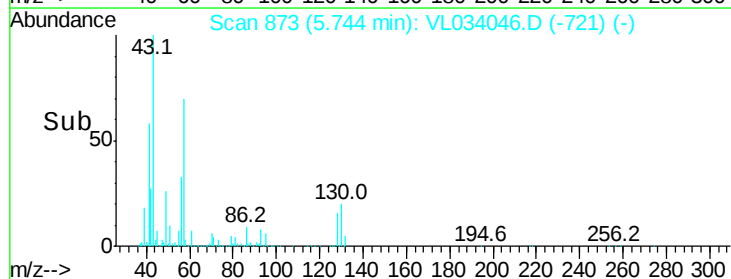
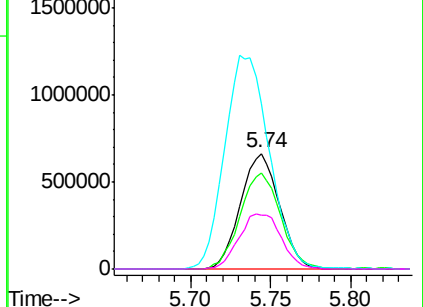


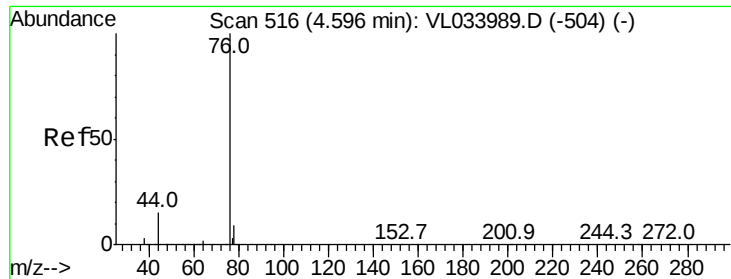
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 8.838 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

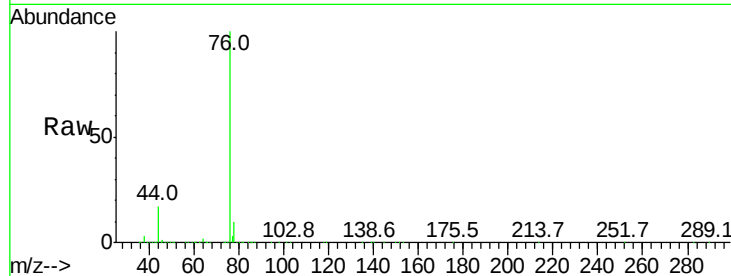
MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 76 Resp: 1738397

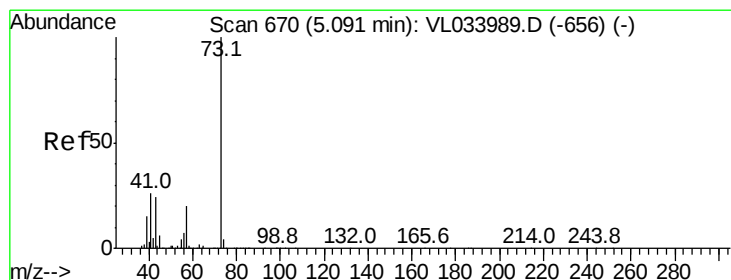
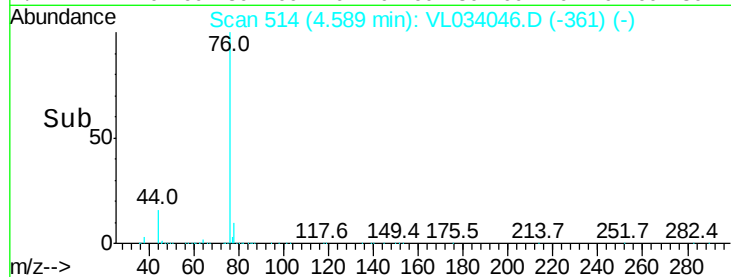
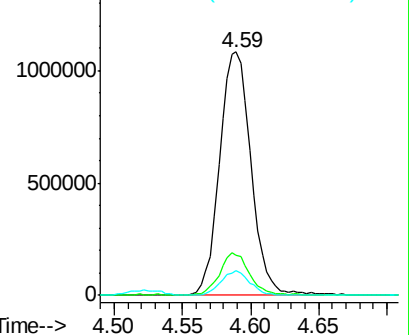
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 16.4  | 12.6  | 18.8  |
| 78  | 9.3   | 7.2   | 10.8  |



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.608 ppbv

RT: 5.08 min Scan# 666

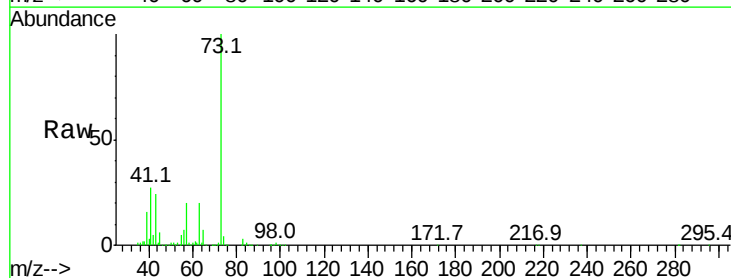
Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

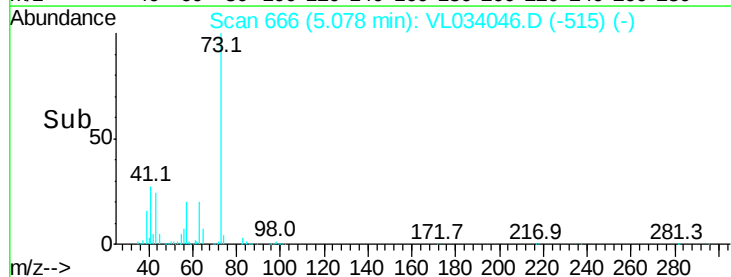
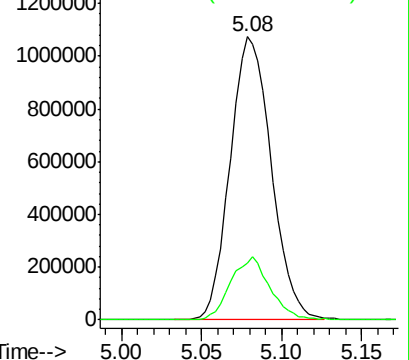
Tgt Ion: 73 Resp: 1882565

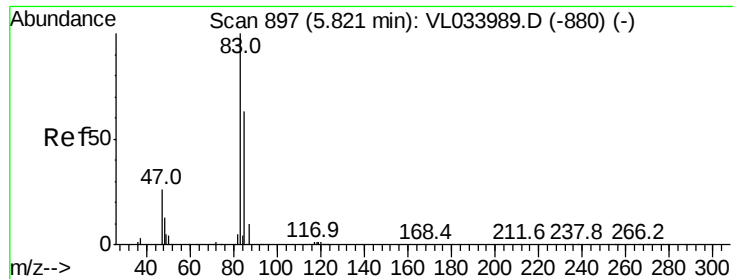
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 21.5  | 16.9  | 25.3  |



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

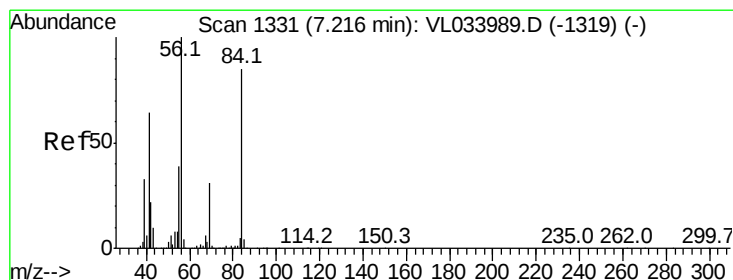
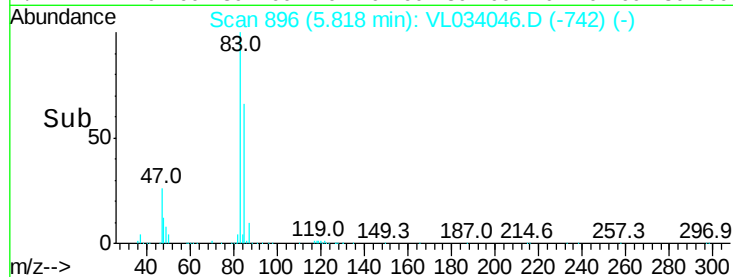
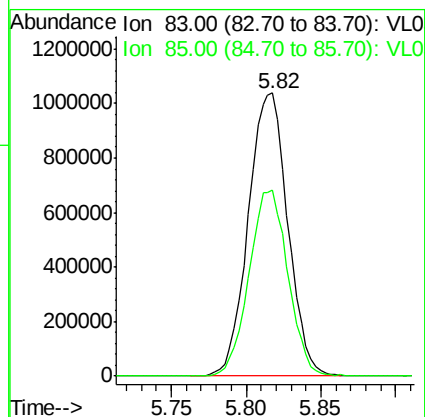
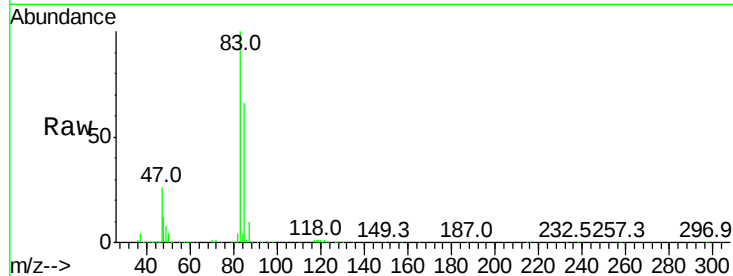




#29  
Chloroform  
Concen: 8.754 ppbv  
RT: 5.82 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

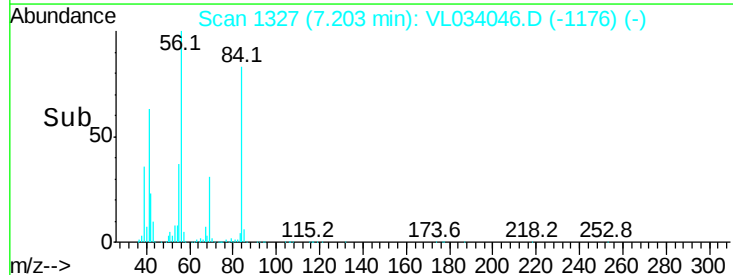
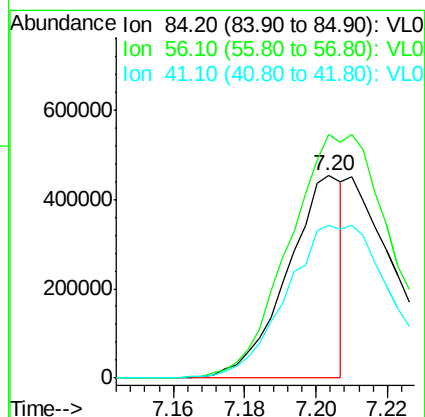
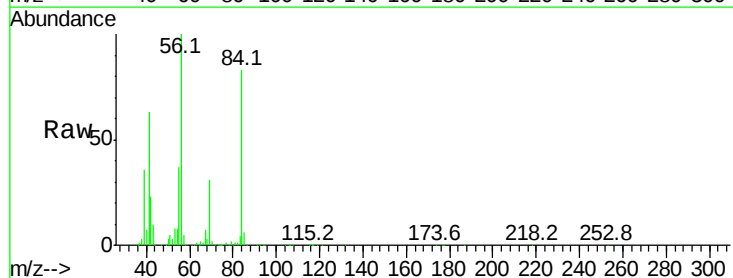
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

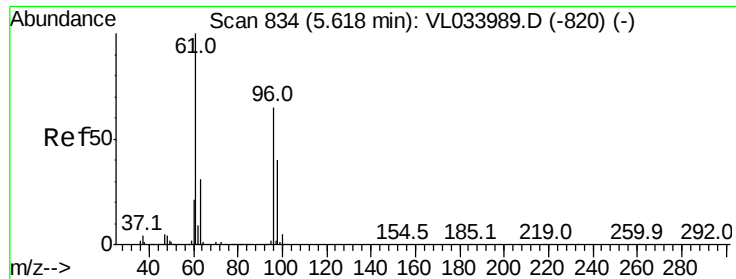
Tgt Ion: 83 Resp: 1903527  
Ion Ratio Lower Upper  
83 100  
85 65.7 50.6 75.8



#30  
Cyclohexane  
Concen: 5.375 ppbv  
RT: 7.20 min Scan# 1327  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion: 84 Resp: 480323  
Ion Ratio Lower Upper  
84 100  
56 240.8 103.7 155.5#  
41 0.0 62.6 94.0#



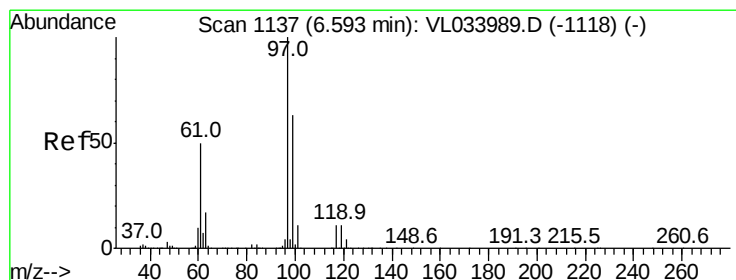
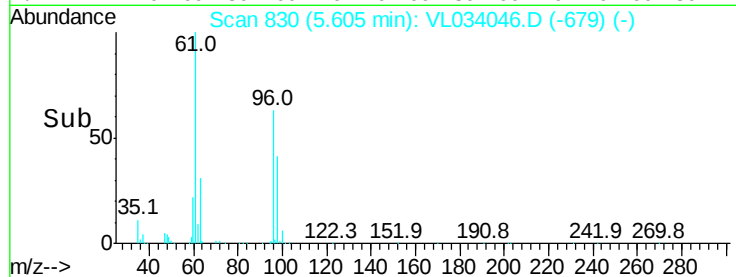
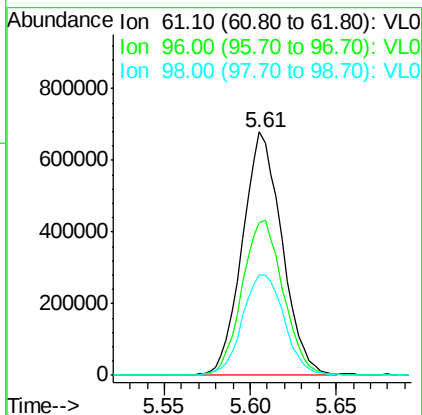
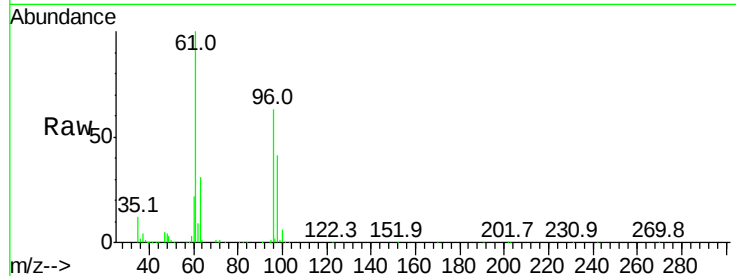


#31

cis-1,2-Dichloroethene  
Concen: 9.700 ppbv  
RT: 5.61 min Scan# 830  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

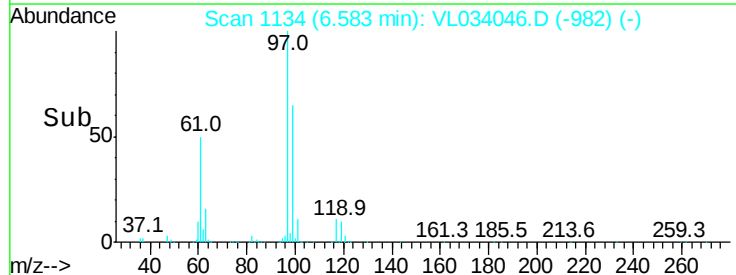
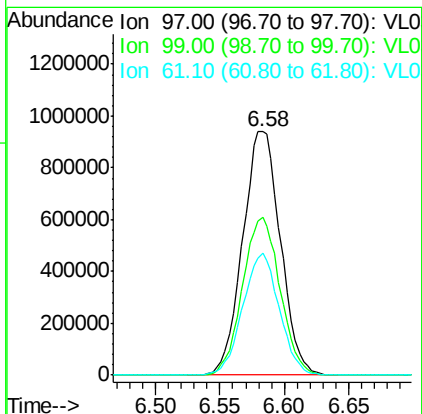
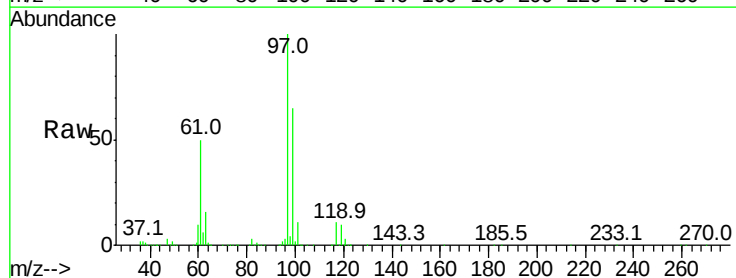
Tgt Ion: 61 Resp: 1084321  
Ion Ratio Lower Upper  
61 100  
96 62.8 51.8 77.6  
98 41.3 32.1 48.1

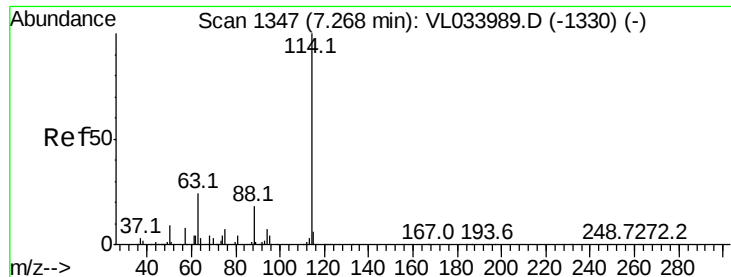


#32

1,1,1-Trichloroethane  
Concen: 8.684 ppbv  
RT: 6.58 min Scan# 1134  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion: 97 Resp: 1913891  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.9 77.9  
61 48.5 39.8 59.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. -0.01 min

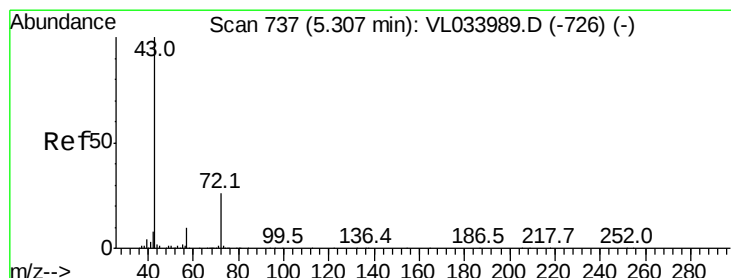
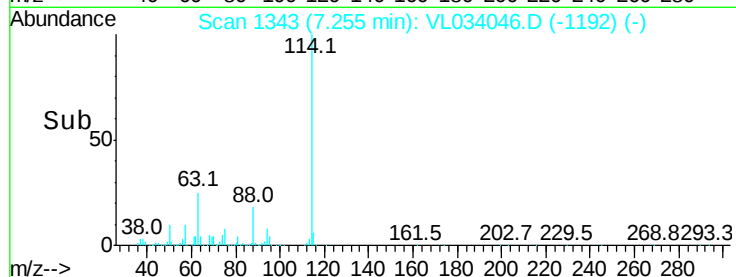
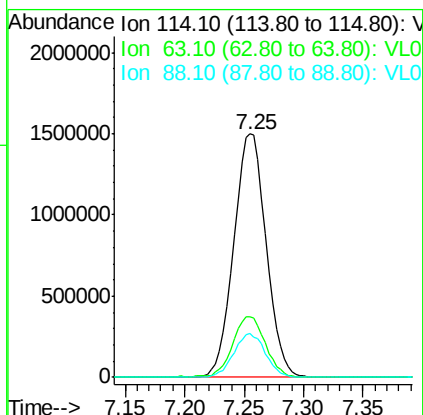
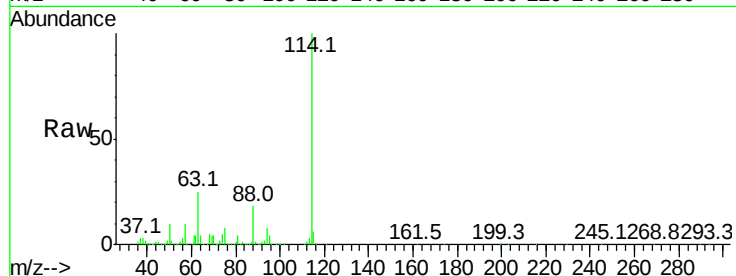
Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 114 Resp: 2823217

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.6  | 20.2  | 30.2  |
| 88  | 17.7  | 14.1  | 21.1  |



#34

2-Butanone

Concen: 9.509 ppbv

RT: 5.30 min Scan# 734

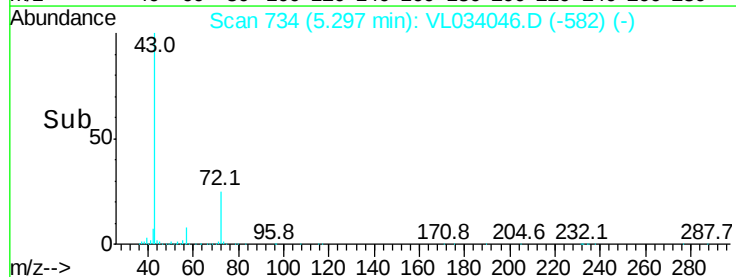
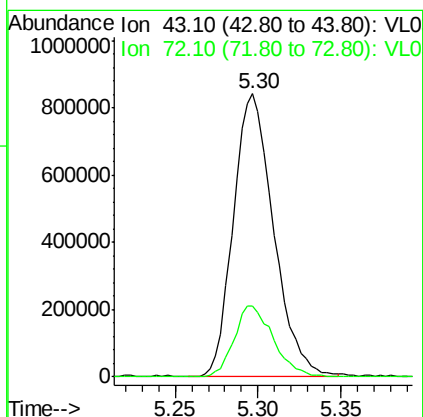
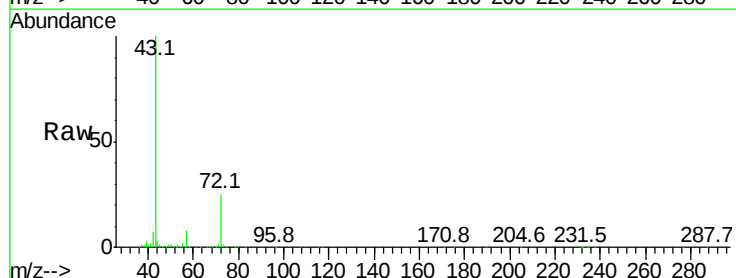
Delta R.T. -0.01 min

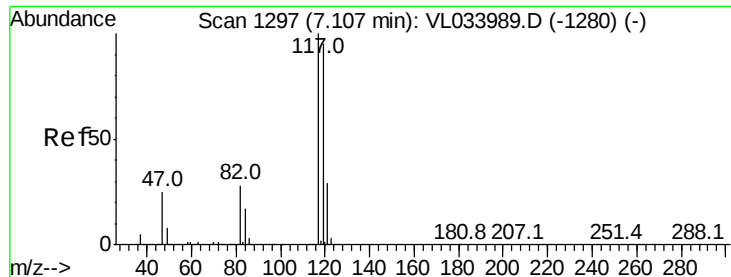
Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Tgt Ion: 43 Resp: 1420851

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 24.6  | 19.9  | 29.9  |





#35

Carbon Tetrachloride

Concen: 9.002 ppbv

RT: 7.09 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

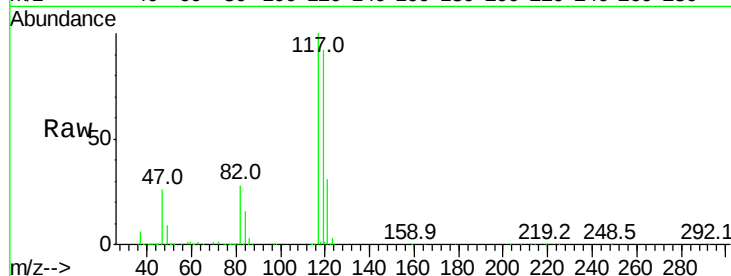
Tgt Ion:117 Resp: 2011924

Ion Ratio Lower Upper

117 100

119 92.3 75.8 113.6

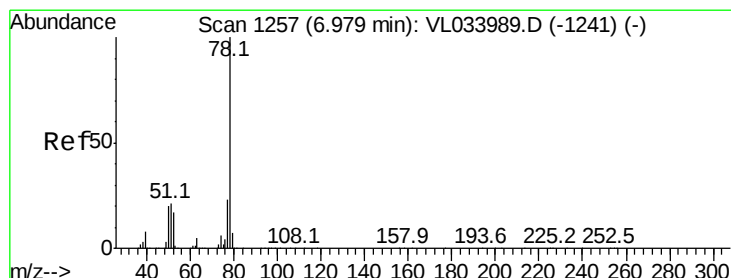
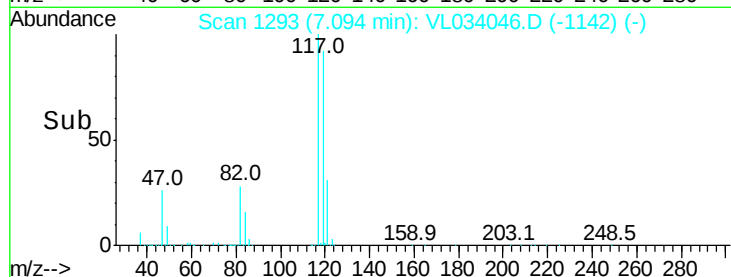
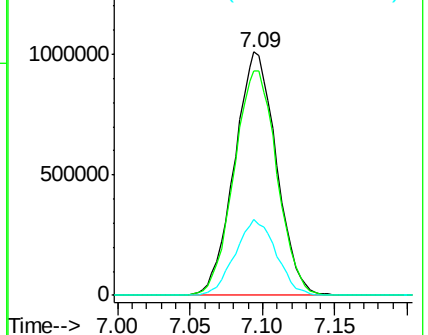
121 31.4 23.4 35.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.940 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

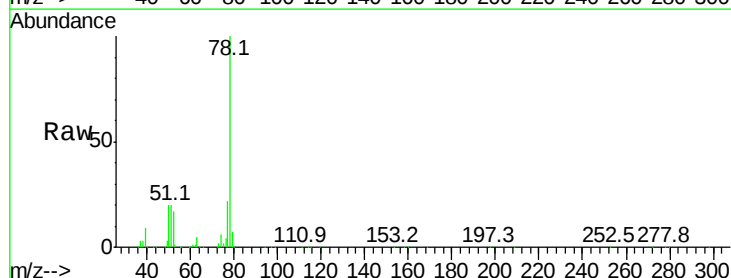
Tgt Ion: 78 Resp: 2195762

Ion Ratio Lower Upper

78 100

77 21.6 18.7 28.1

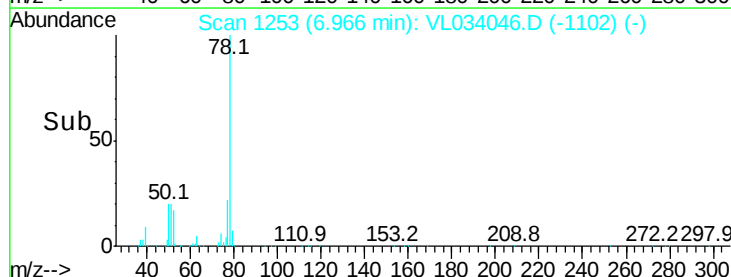
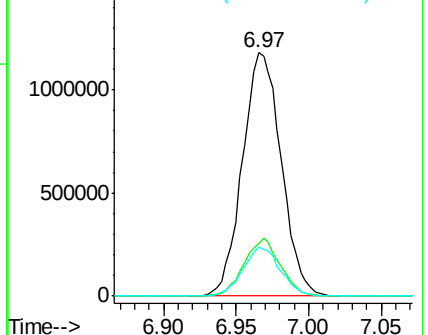
50 19.9 16.2 24.2

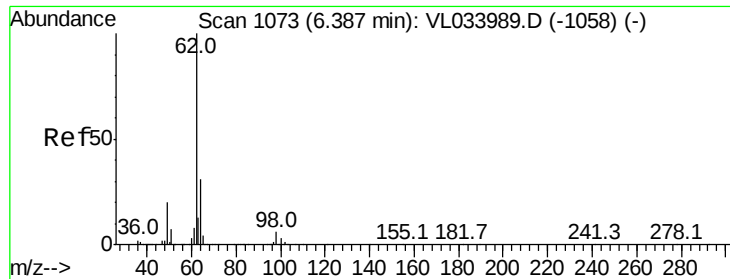


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

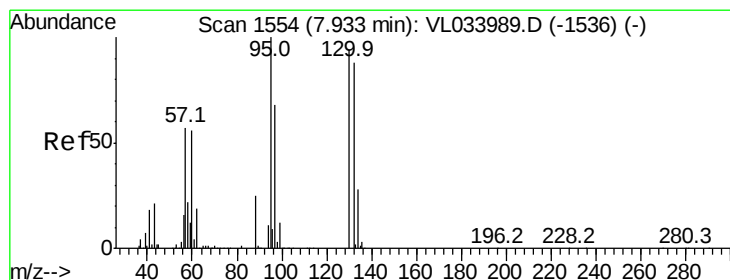
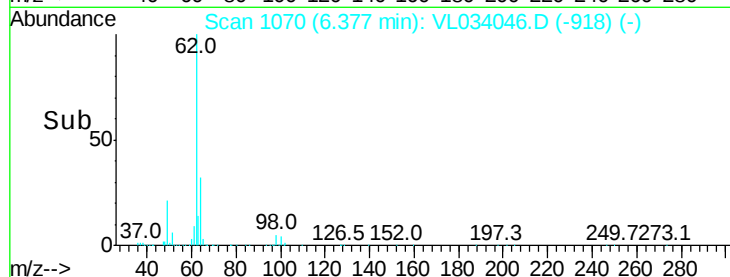
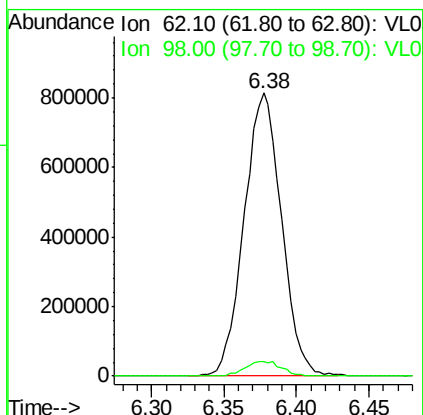
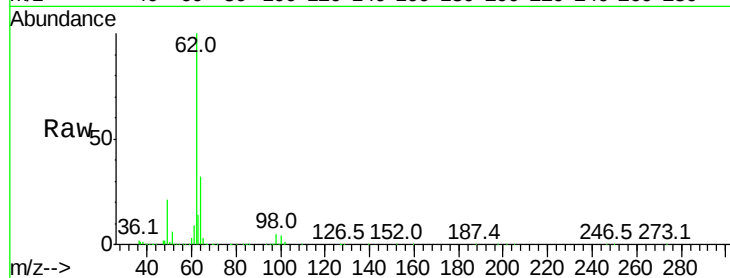




#37  
 1,2-Dichloroethane  
 Concen: 8.980 ppbv  
 RT: 6.38 min Scan# 1070  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

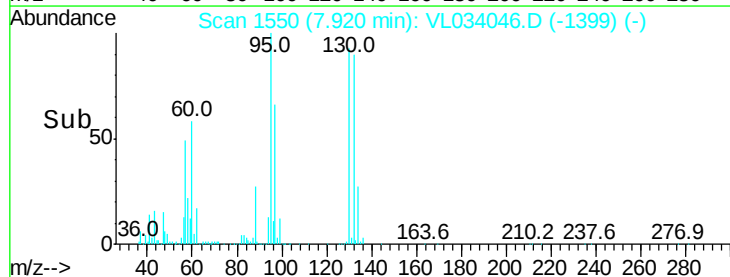
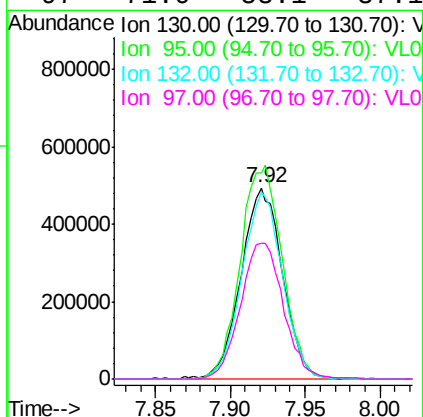
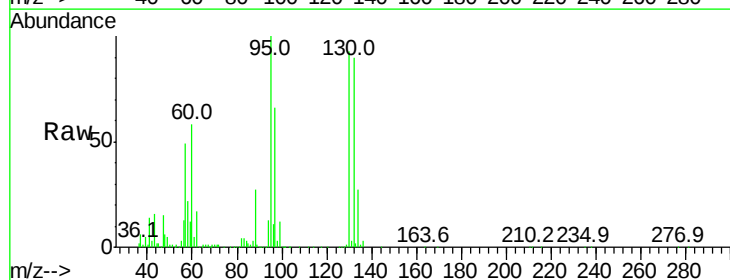
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

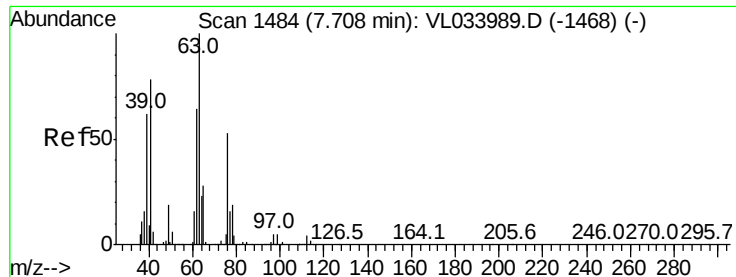
Tgt Ion: 62 Resp: 1461479  
 Ion Ratio Lower Upper  
 62 100  
 98 5.2 4.4 6.6



#38  
 Trichloroethene  
 Concen: 9.624 ppbv  
 RT: 7.92 min Scan# 1550  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

Tgt Ion: 130 Resp: 945922  
 Ion Ratio Lower Upper  
 130 100  
 95 108.1 85.5 128.3  
 132 97.6 75.1 112.7  
 97 71.0 58.1 87.1





#39

1,2-Dichloropropane

Concen: 9.767 ppbv

RT: 7.70 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

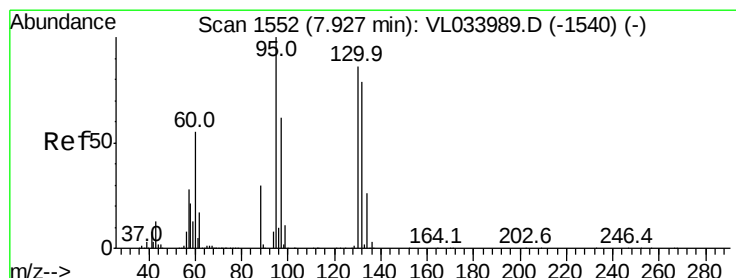
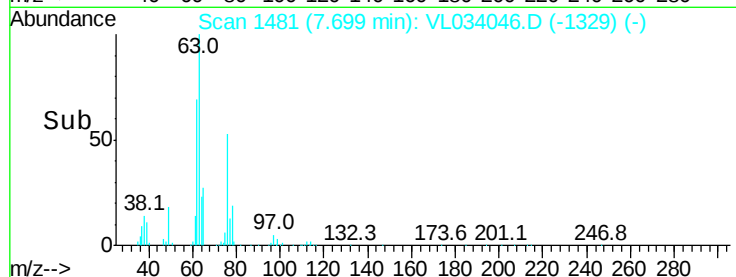
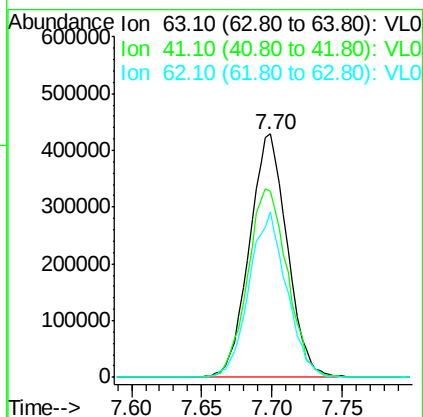
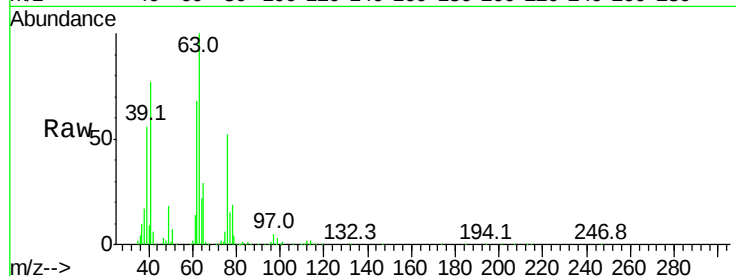
Tgt Ion: 63 Resp: 802290

Ion Ratio Lower Upper

63 100

41 76.6 62.3 93.5

62 67.9 51.4 77.2



#40

1,4-Dioxane

Concen: 9.071 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Tgt Ion: 88 Resp: 344023

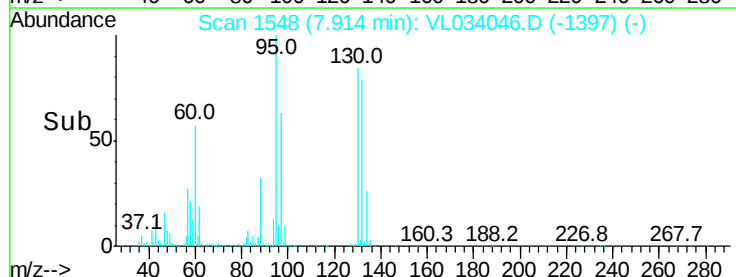
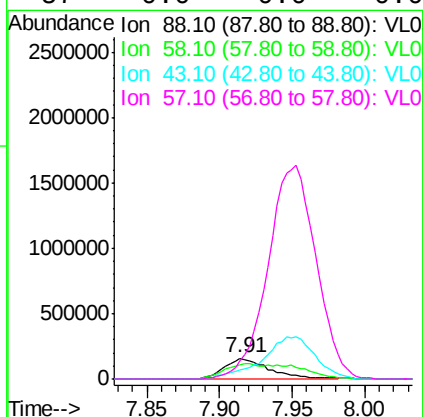
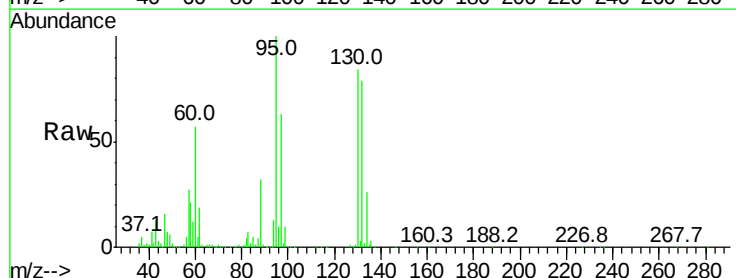
Ion Ratio Lower Upper

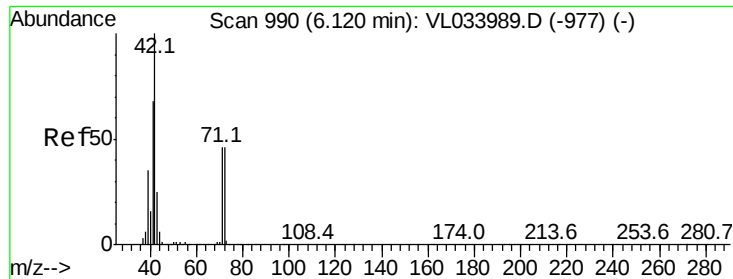
88 100

58 124.7 99.1 148.7

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.433 ppbv

RT: 6.11 min Scan# 987

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

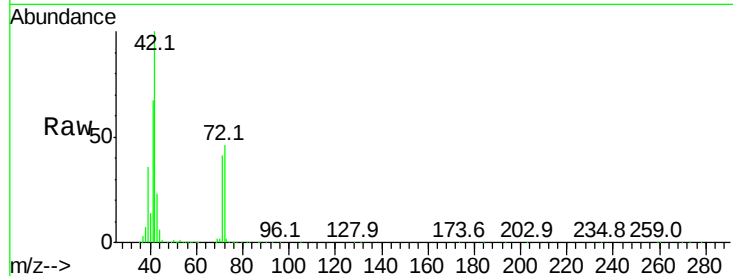
Tgt Ion: 42 Resp: 764460

Ion Ratio Lower Upper

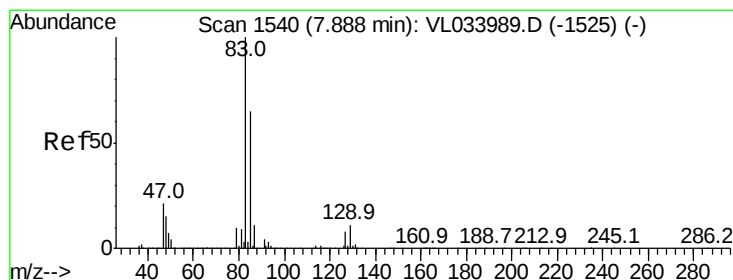
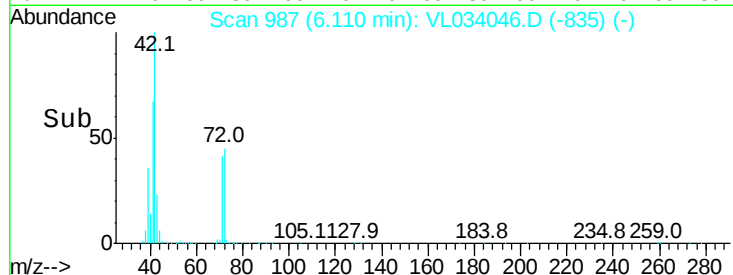
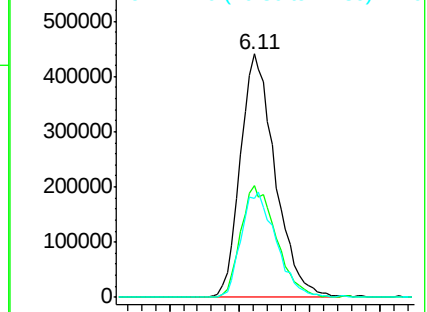
42 100

72 46.6 37.3 55.9

71 43.6 36.2 54.2



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.522 ppbv

RT: 7.88 min Scan# 1536

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

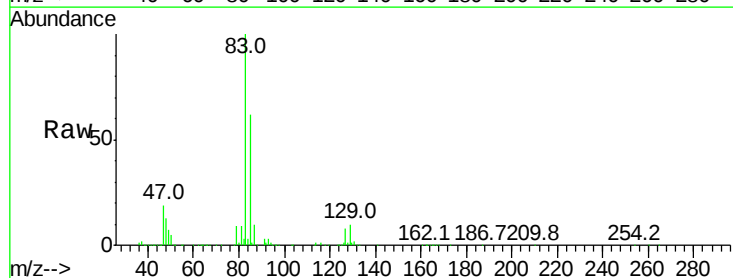
Tgt Ion: 83 Resp: 2079128

Ion Ratio Lower Upper

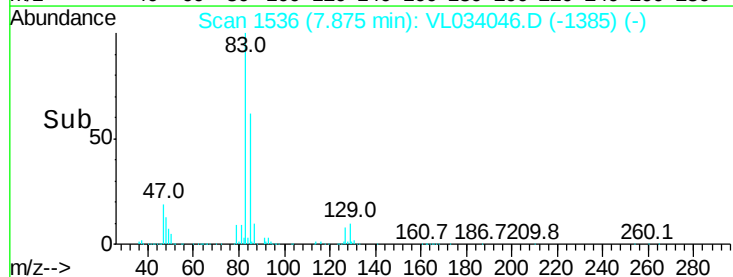
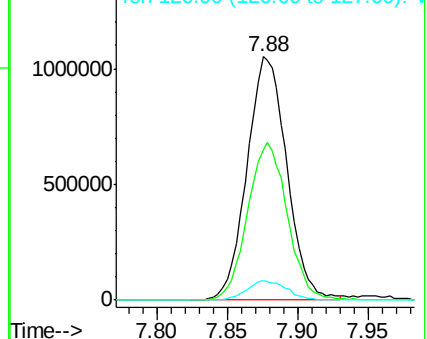
83 100

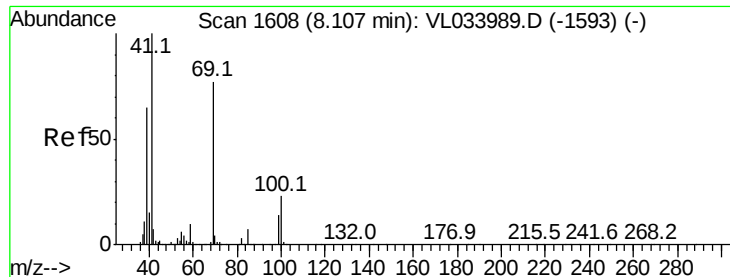
85 61.6 51.8 77.8

127 8.1 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 10.591 ppbv

RT: 8.10 min Scan# 1606

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

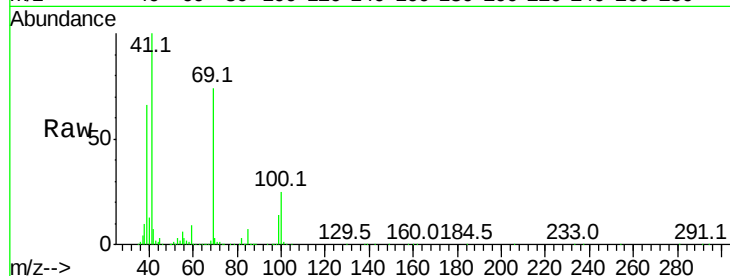
Tgt Ion: 69 Resp: 887662

Ion Ratio Lower Upper

69 100

41 137.6 109.1 163.7

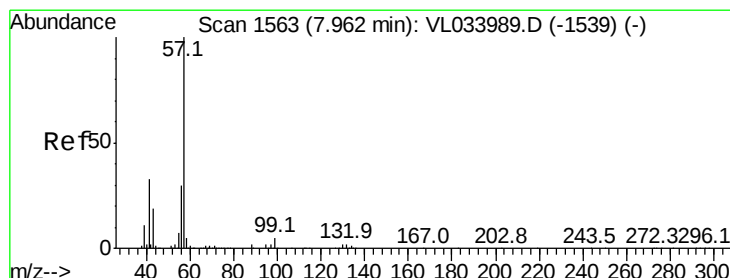
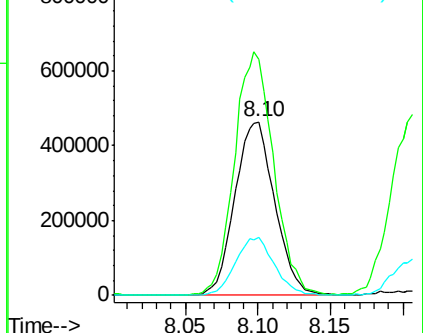
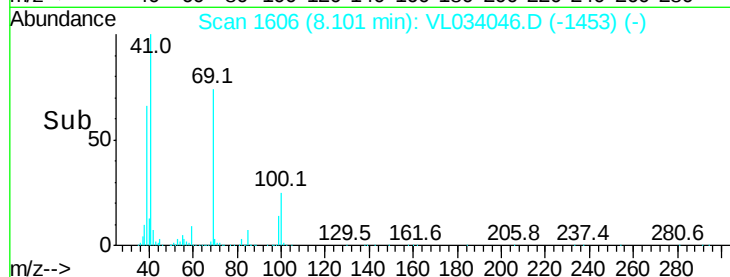
100 32.6 25.3 37.9



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 9.894 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

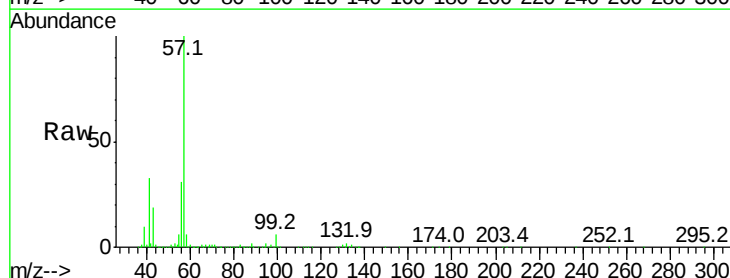
Tgt Ion: 57 Resp: 3772728

Ion Ratio Lower Upper

57 100

41 32.9 26.1 39.1

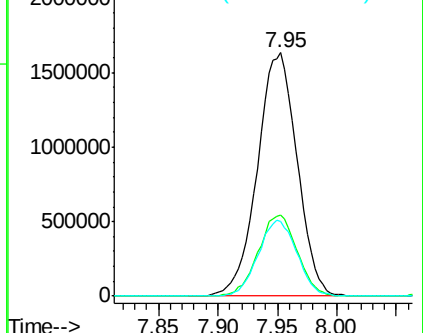
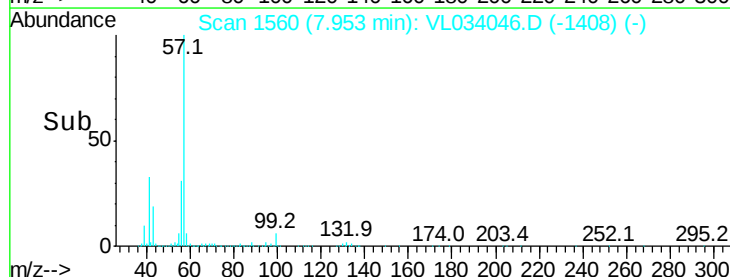
56 30.5 24.4 36.6

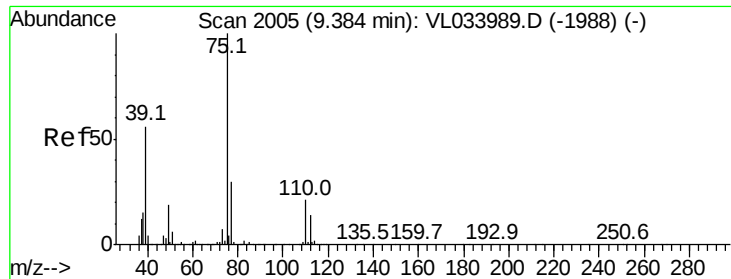


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 13.650 ppbv

RT: 9.37 min Scan# 2001

Delta R.T. -0.01 min

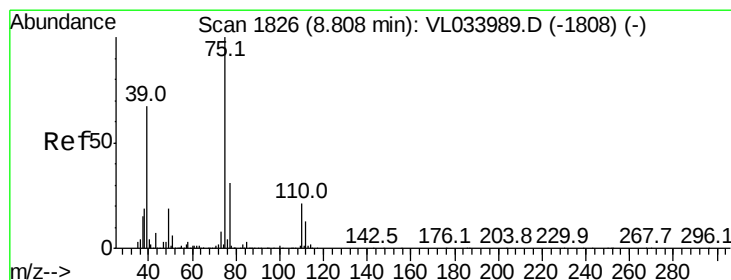
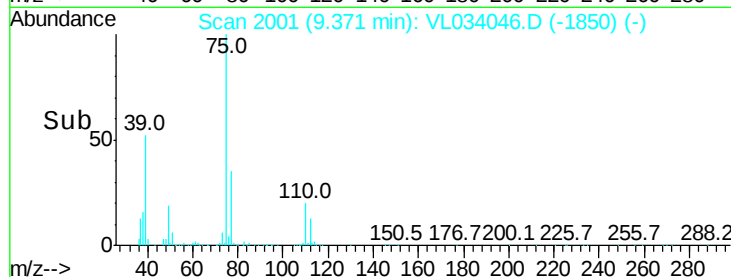
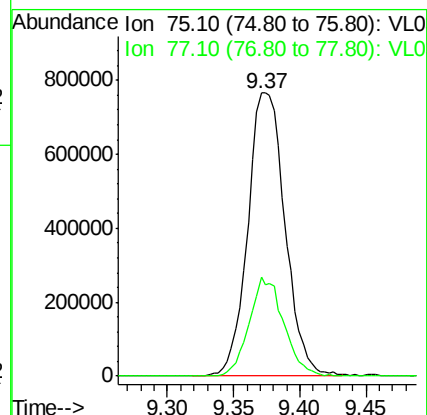
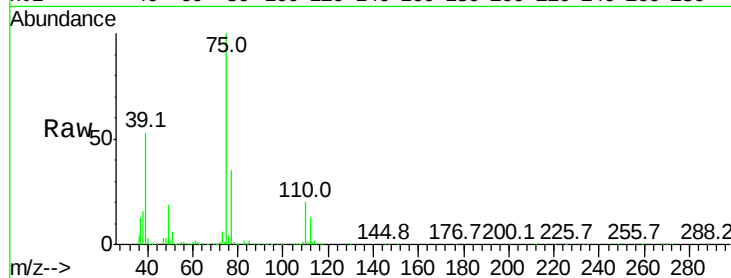
Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 75 Resp: 1496048

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 34.9  | 24.3  | 36.5  |



#46

cis-1,3-Dichloropropene

Concen: 10.247 ppbv

RT: 8.80 min Scan# 1822

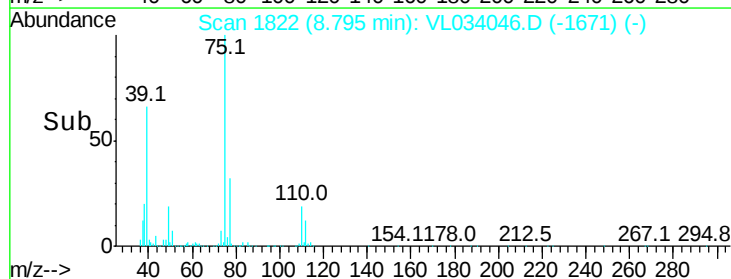
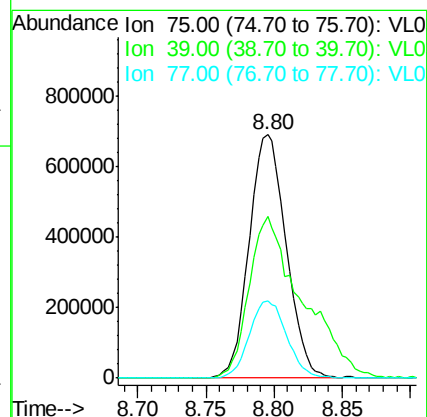
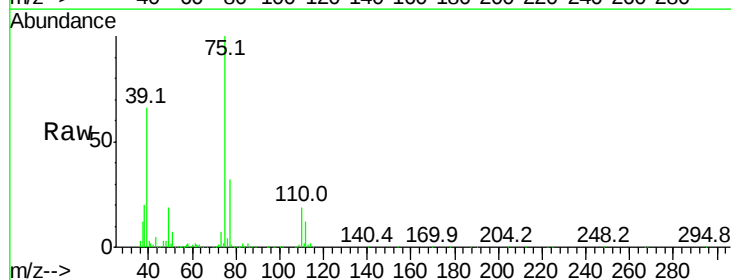
Delta R.T. -0.01 min

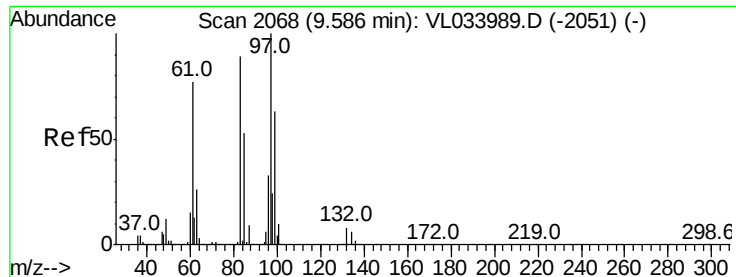
Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Tgt Ion: 75 Resp: 1300692

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 39  | 66.3  | 53.8  | 80.6  |
| 77  | 31.7  | 24.5  | 36.7  |

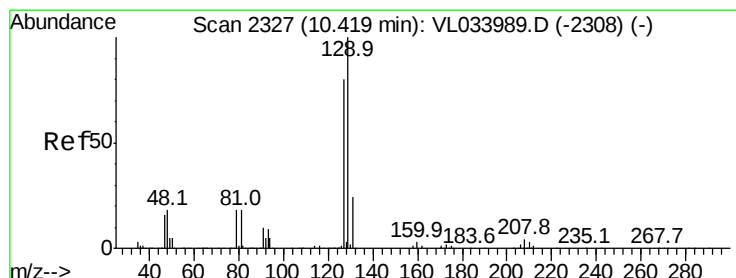
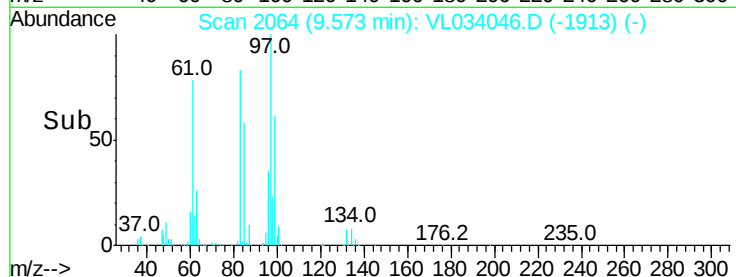
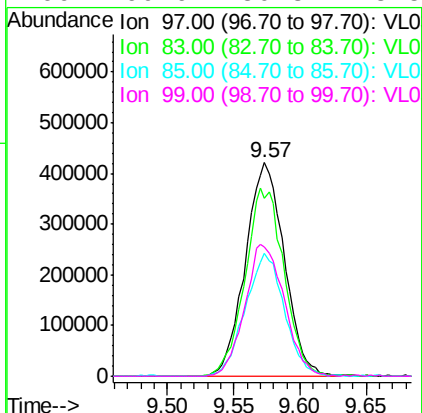
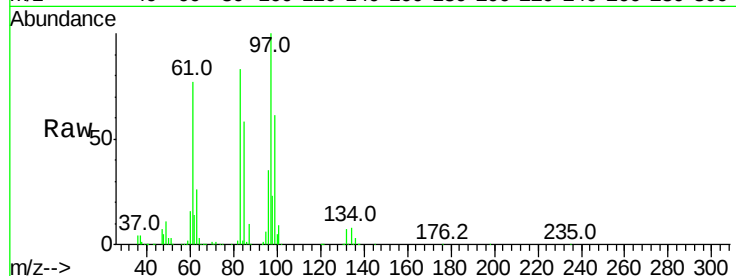




#47  
 1,1,2-Trichloroethane  
 Concen: 8.344 ppbv  
 RT: 9.57 min Scan# 2064  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

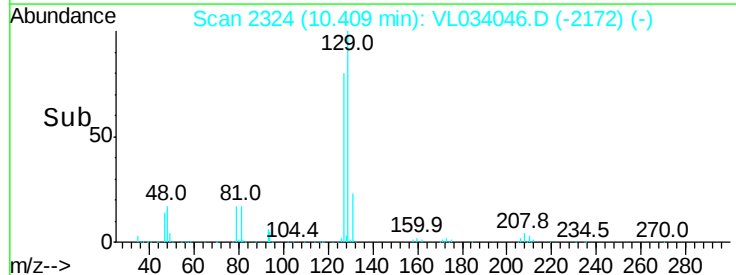
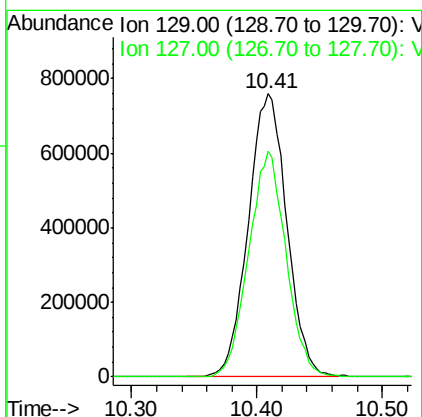
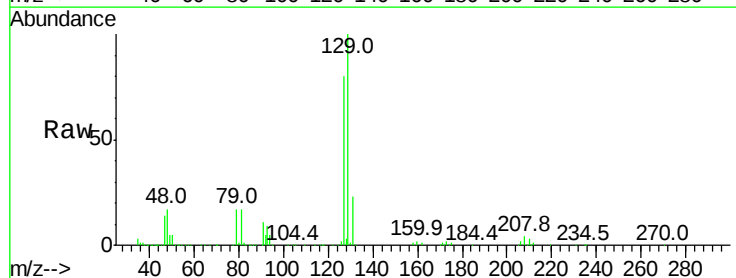
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

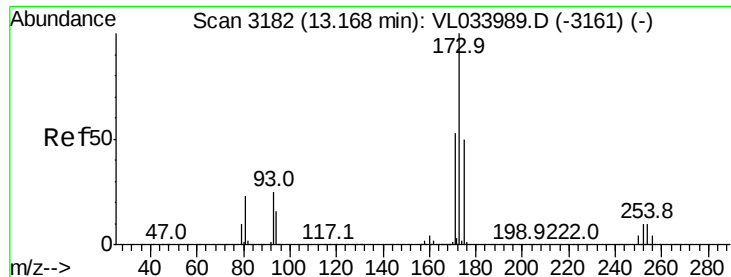
Tgt Ion: 97 Resp: 861820  
 Ion Ratio Lower Upper  
 97 100  
 83 83.4 71.1 106.7  
 85 57.7 42.6 64.0  
 99 60.6 50.3 75.5



#48  
 Dibromochloromethane  
 Concen: 8.237 ppbv  
 RT: 10.41 min Scan# 2324  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

Tgt Ion: 129 Resp: 1623283  
 Ion Ratio Lower Upper  
 129 100  
 127 77.1 39.1 117.3





#49

Bromoform

Concen: 8.762 ppbv

RT: 13.15 min Scan# 3178

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

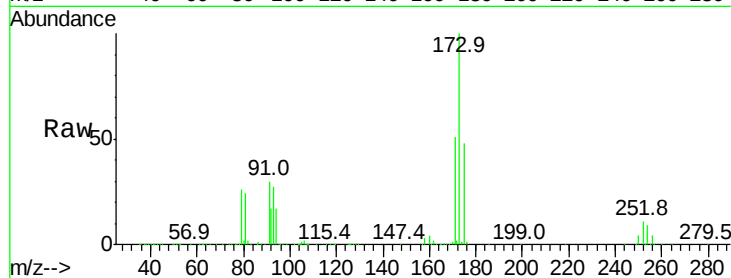
Tgt Ion:173 Resp: 1475148

Ion Ratio Lower Upper

173 100

175 49.1 39.3 58.9

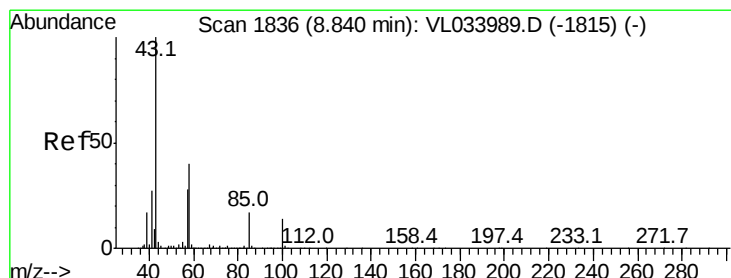
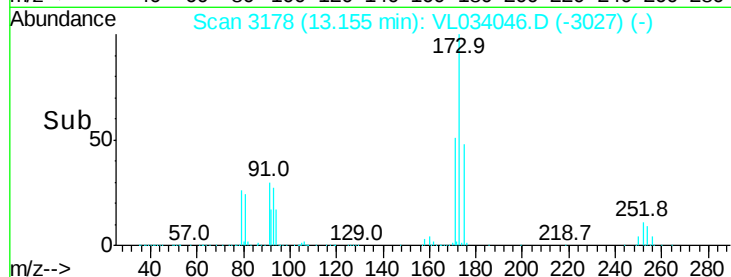
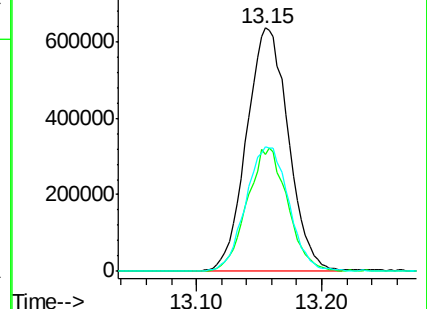
171 52.2 41.4 62.0



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: 9.888 ppbv

RT: 8.83 min Scan# 1832

Delta R.T. -0.01 min

Lab File: VL034046.D

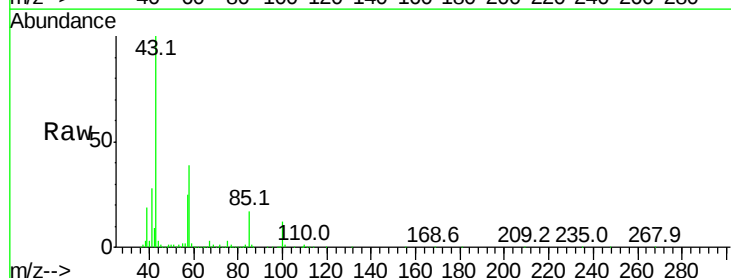
Acq: 18 Jul 2019 10:38

Tgt Ion: 43 Resp: 2192448

Ion Ratio Lower Upper

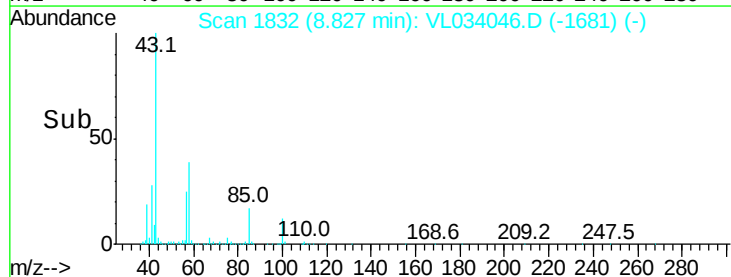
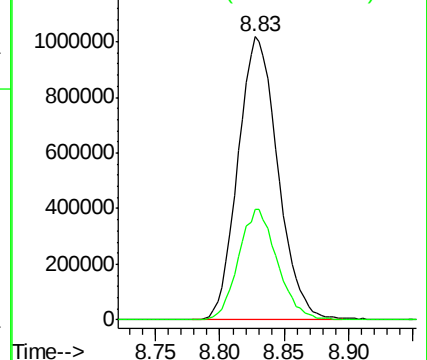
43 100

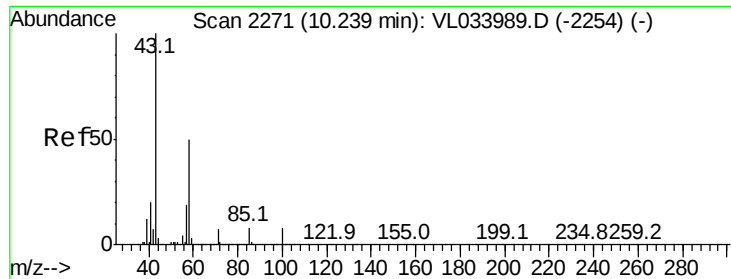
58 38.1 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

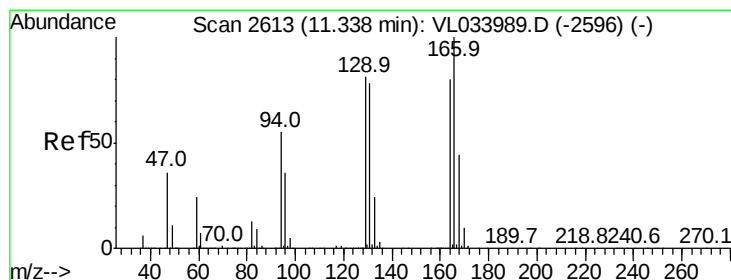
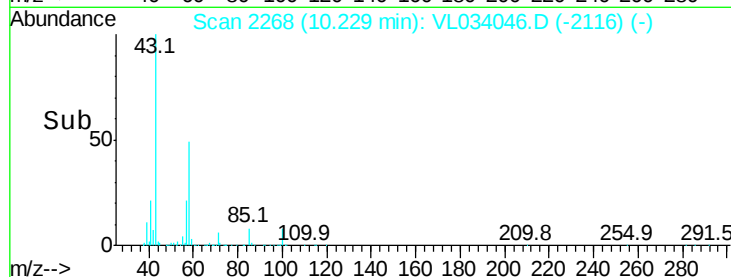
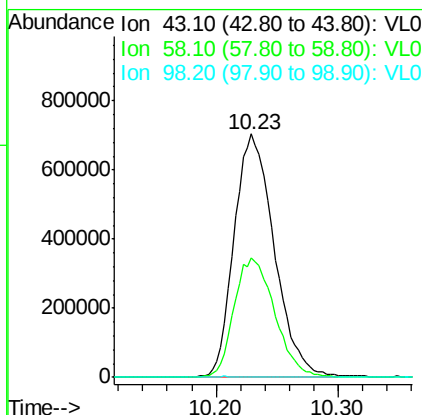
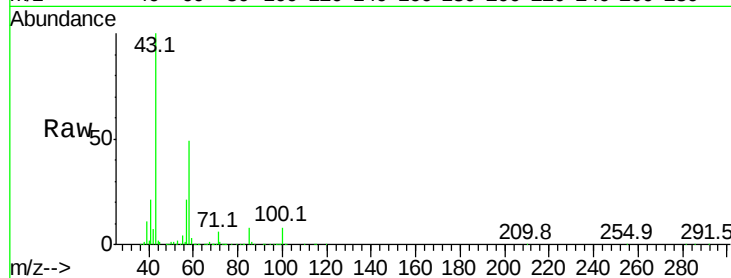




#51  
2-Hexanone  
Concen: 8.981 ppbv  
RT: 10.23 min Scan# 2268  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

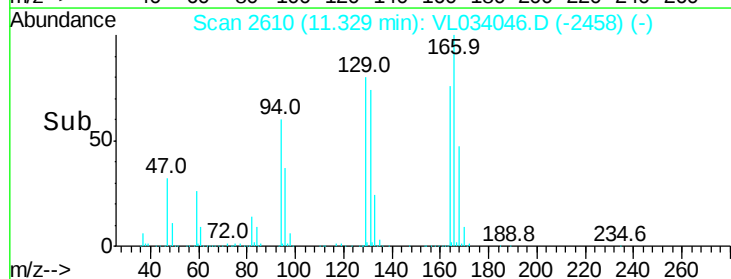
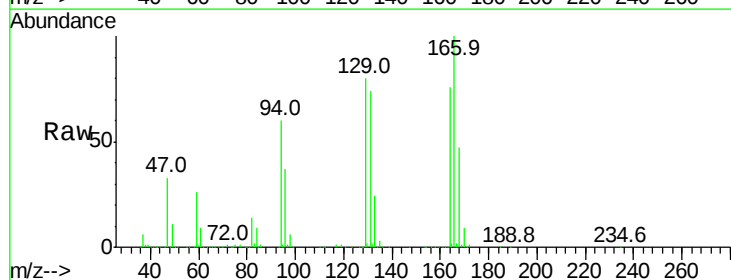
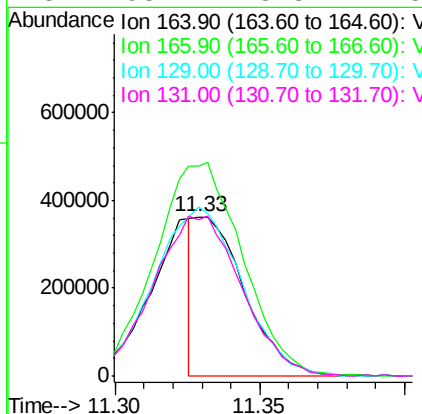
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

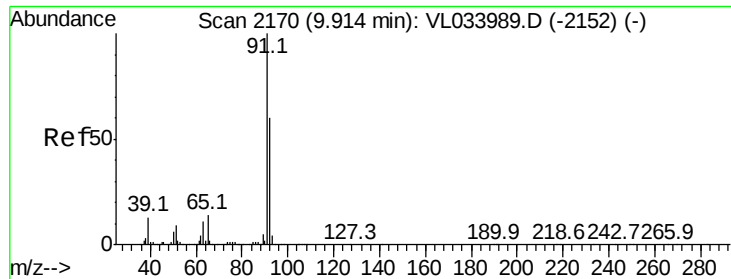
Tgt Ion: 43 Resp: 1605846  
Ion Ratio Lower Upper  
43 100  
58 49.8 41.0 61.4  
98 0.4 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 4.519 ppbv  
RT: 11.33 min Scan# 2610  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion: 164 Resp: 429659  
Ion Ratio Lower Upper  
164 100  
166 132.1 100.2 150.2  
129 106.6 81.0 121.6  
131 98.1 78.3 117.5





#53

Toluene

Concen: 9.564 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

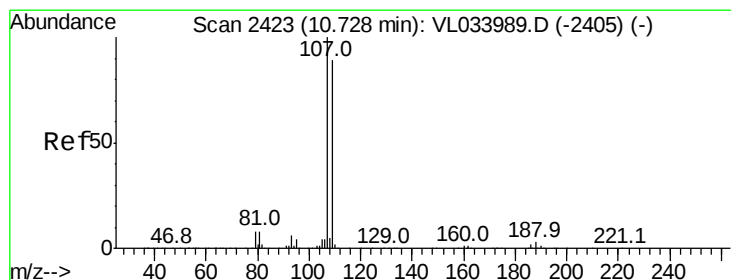
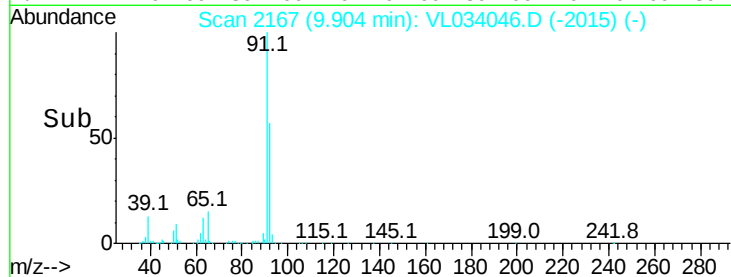
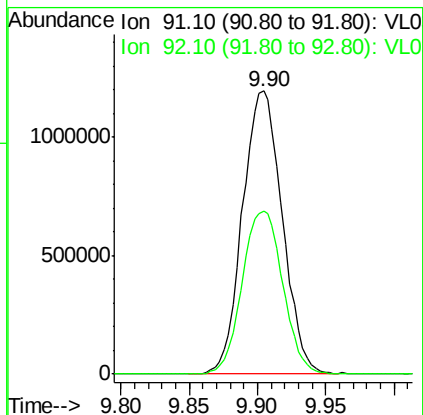
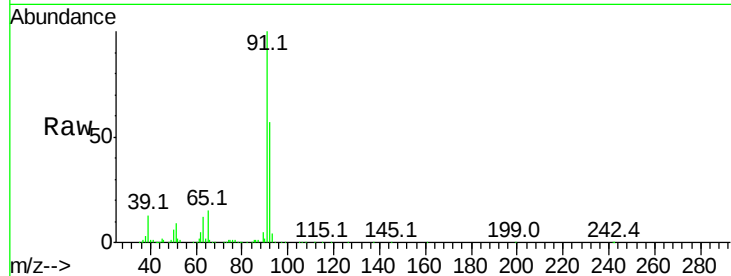
VSTDCCC010EC

Tgt Ion: 91 Resp: 2418583

Ion Ratio Lower Upper

91 100

92 58.8 47.7 71.5



#54

1,2-Dibromoethane

Concen: 8.872 ppbv

RT: 10.71 min Scan# 2419

Delta R.T. -0.01 min

Lab File: VL034046.D

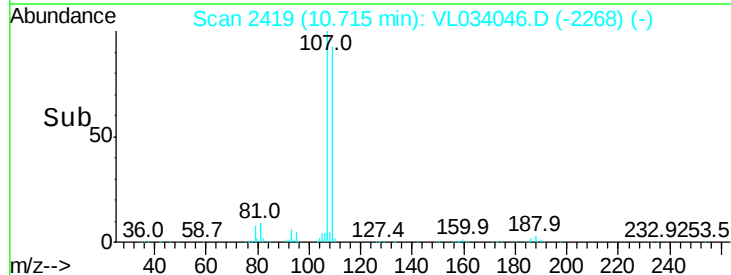
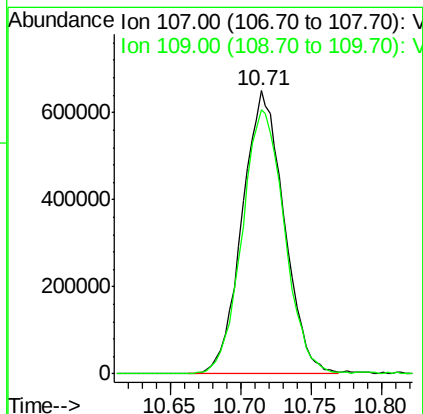
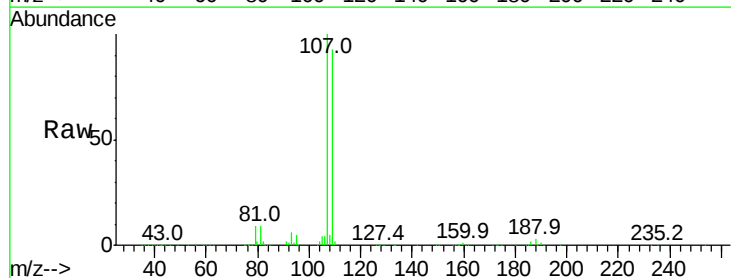
Acq: 18 Jul 2019 10:38

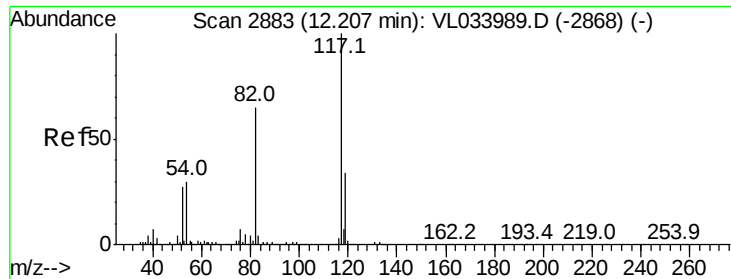
Tgt Ion: 107 Resp: 1352332

Ion Ratio Lower Upper

107 100

109 93.4 71.5 107.3

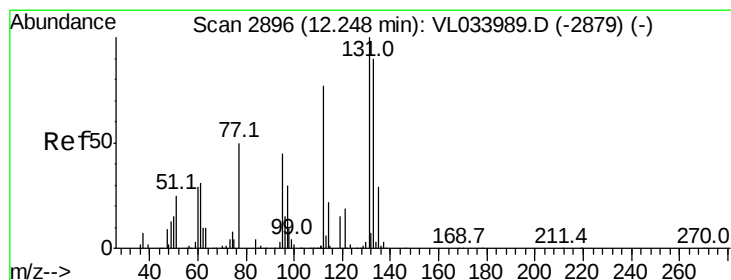
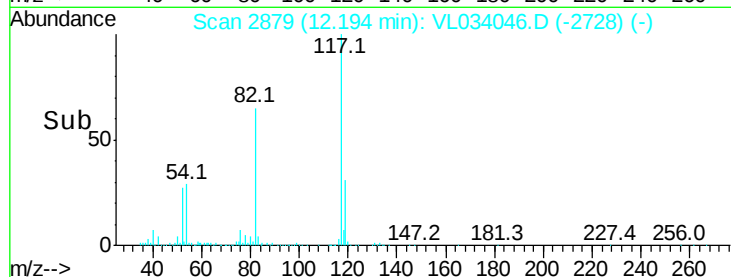
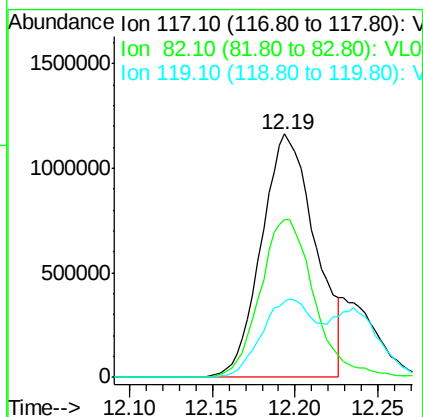
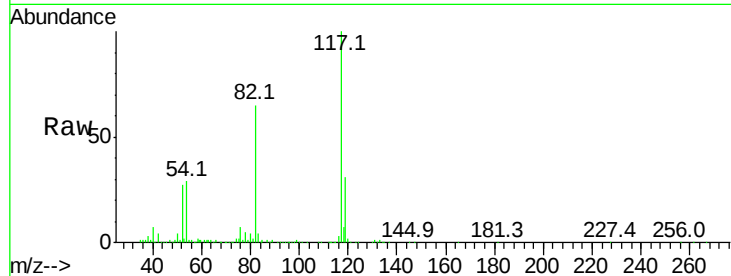




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.19 min Scan# 2879  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

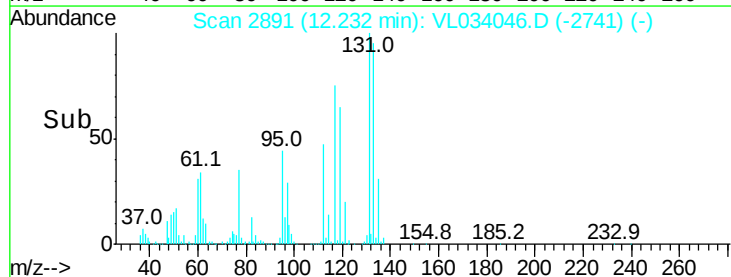
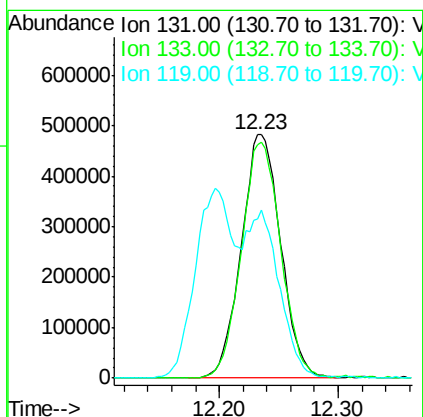
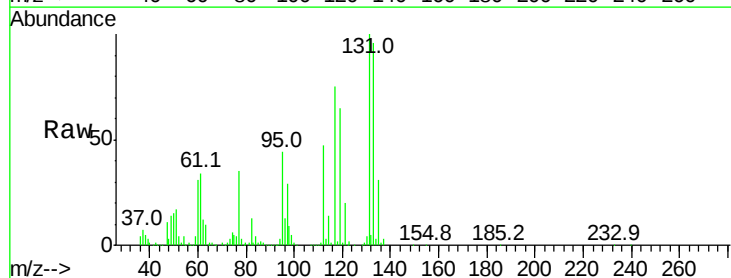
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

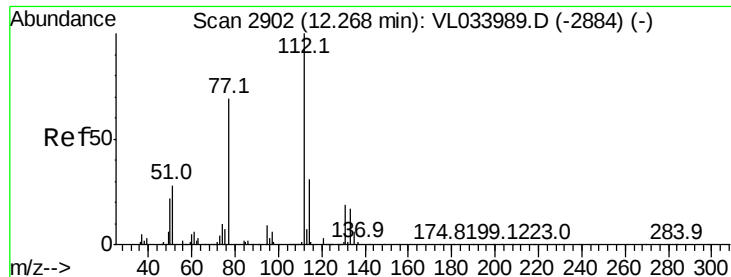
Tgt Ion:117 Resp: 2640018  
Ion Ratio Lower Upper  
117 100  
82 65.5 50.8 76.2  
119 31.4 24.0 36.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.370 ppbv  
RT: 12.23 min Scan# 2891  
Delta R.T. -0.02 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion:131 Resp: 1105630  
Ion Ratio Lower Upper  
131 100  
133 97.9 76.2 114.2  
119 56.8 43.1 64.7





#57

Chlorobenzene

Concen: 8.972 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

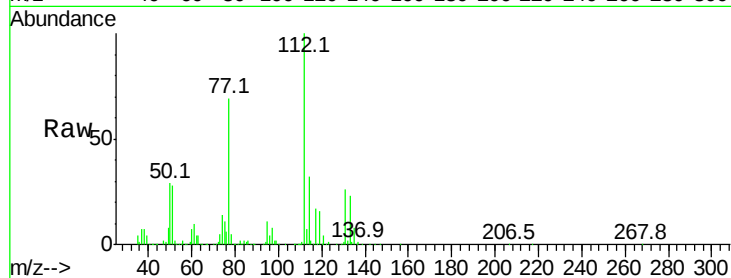
Tgt Ion: 112 Resp: 1885881

Ion Ratio Lower Upper

112 100

77 69.1 55.9 83.9

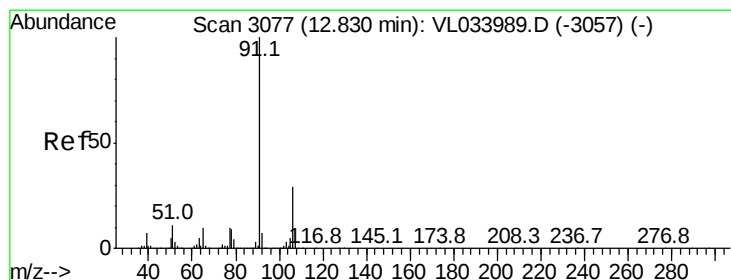
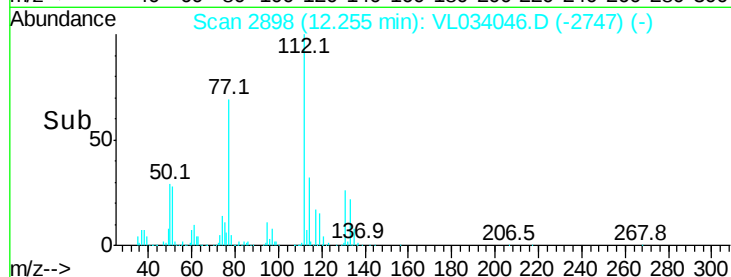
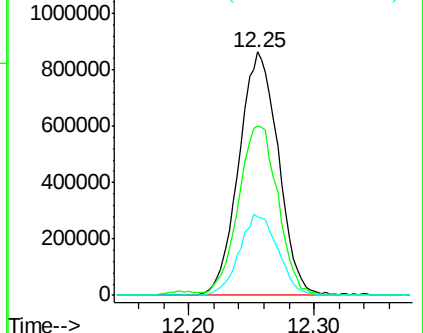
114 32.4 27.6 33.8



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: 10.565 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034046.D

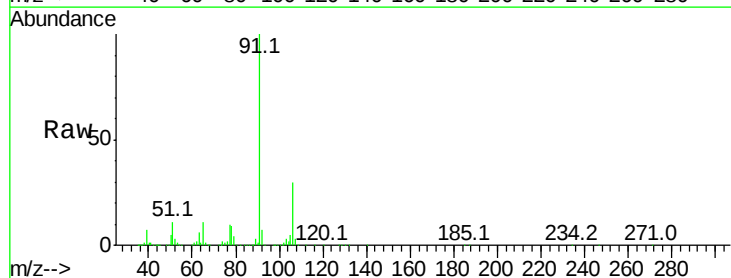
Acq: 18 Jul 2019 10:38

Tgt Ion: 91 Resp: 3354237

Ion Ratio Lower Upper

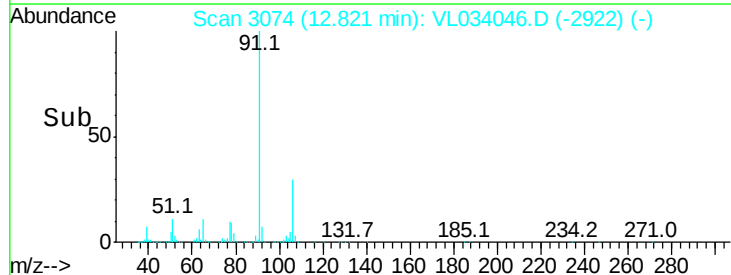
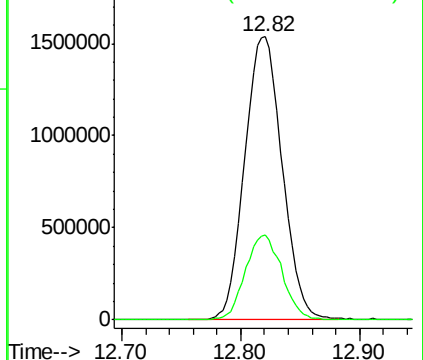
91 100

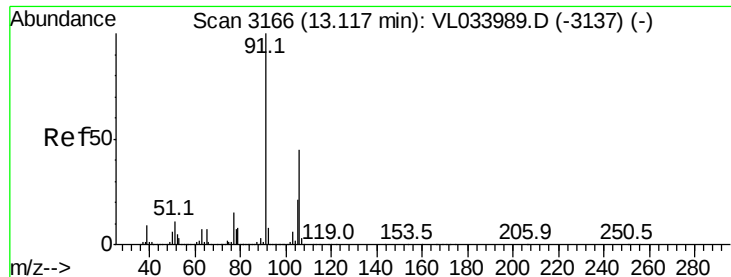
106 29.9 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

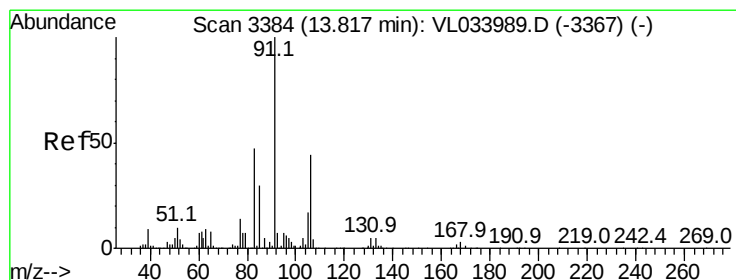
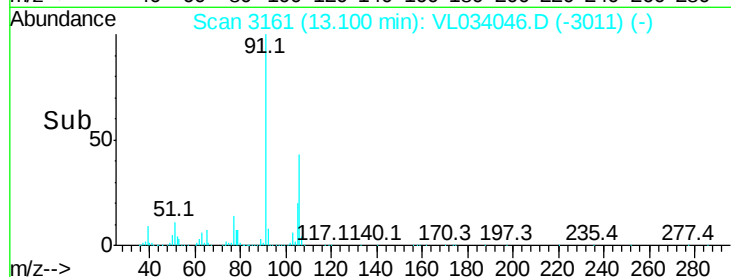
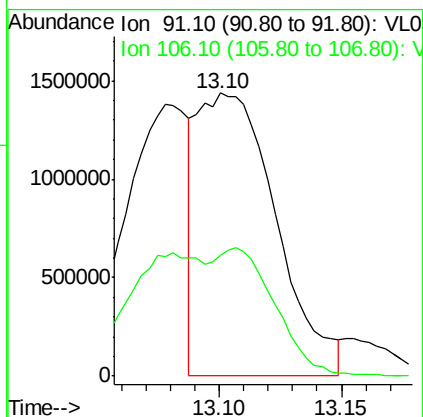
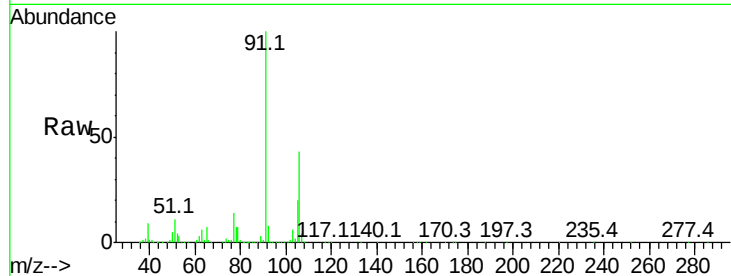




#59  
m/p-Xylene  
Concen: 11.119 ppbv  
RT: 13.10 min Scan# 3161  
Delta R.T. -0.02 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

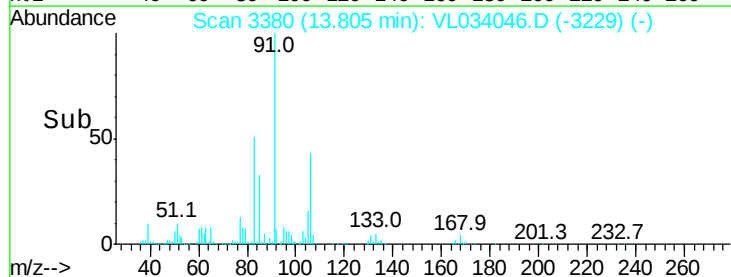
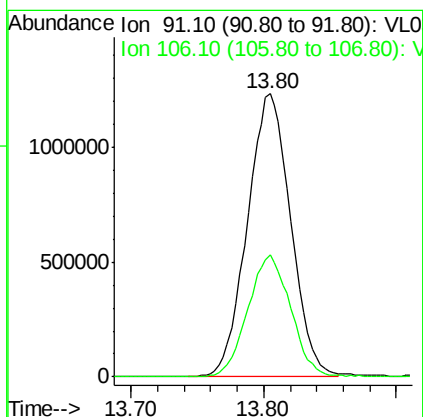
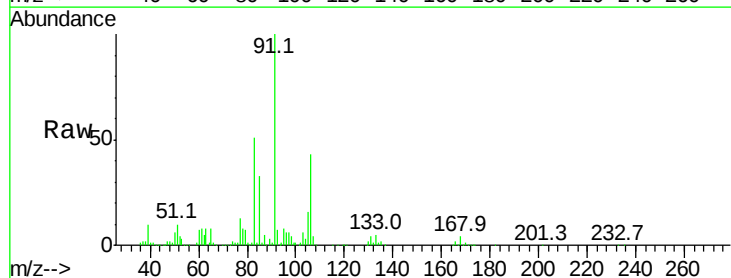
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

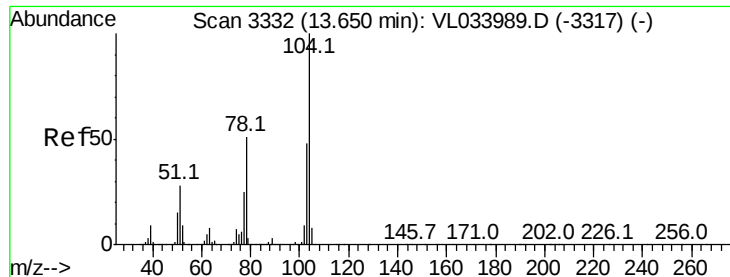
Tgt Ion: 91 Resp: 3196260  
Ion Ratio Lower Upper  
91 100  
106 78.3 35.7 53.5#



#60  
o-Xylene  
Concen: 9.727 ppbv  
RT: 13.80 min Scan# 3380  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion: 91 Resp: 2797318  
Ion Ratio Lower Upper  
91 100  
106 42.9 21.9 65.7





#61

Styrene

Concen: 10.334 ppbv

RT: 13.64 min Scan# 3329

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

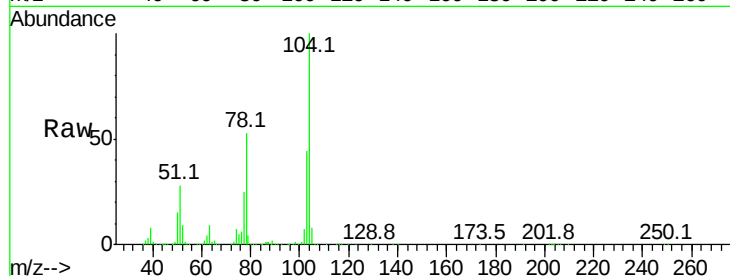
Tgt Ion:104 Resp: 1966791

Ion Ratio Lower Upper

104 100

78 54.4 43.9 65.9

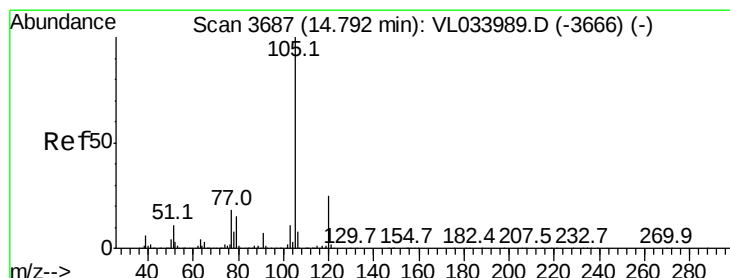
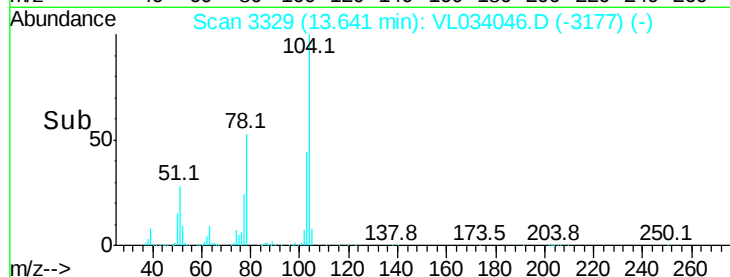
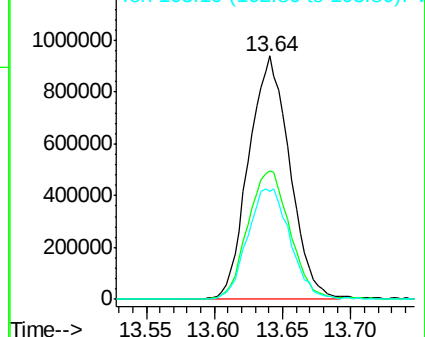
103 47.4 38.1 57.1



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: 8.573 ppbv

RT: 14.78 min Scan# 3684

Delta R.T. -0.01 min

Lab File: VL034046.D

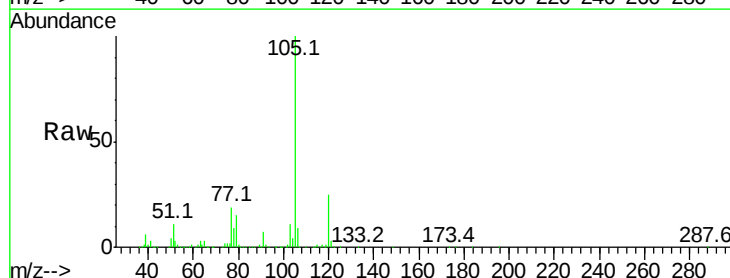
Acq: 18 Jul 2019 10:38

Tgt Ion:105 Resp: 3789777

Ion Ratio Lower Upper

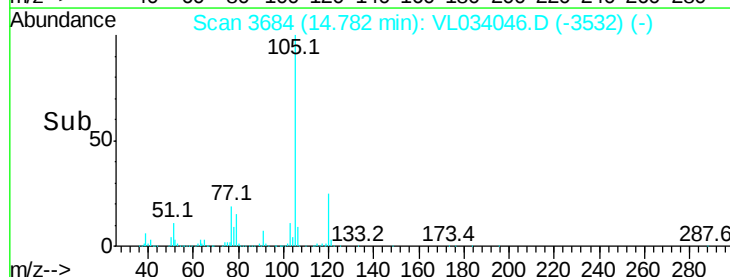
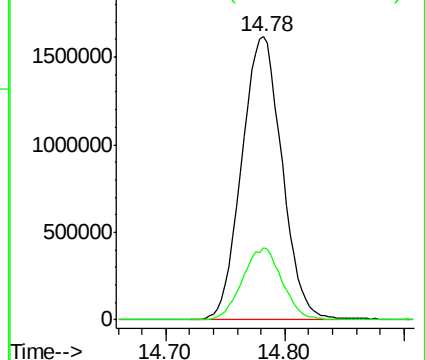
105 100

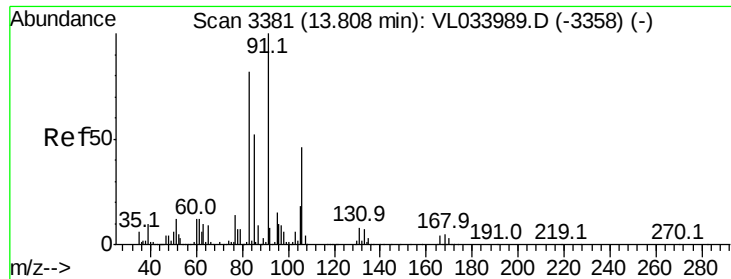
120 25.3 20.4 30.6



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: 8.702 ppbv

RT: 13.79 min Scan# 3376

Delta R.T. -0.02 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

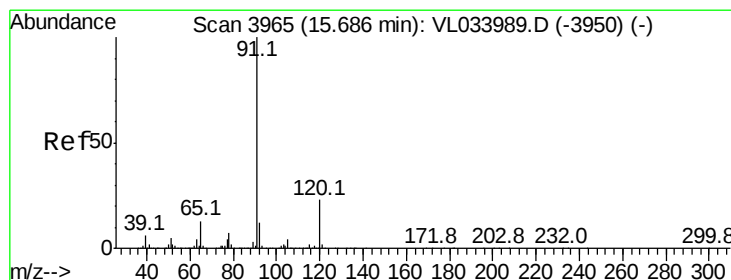
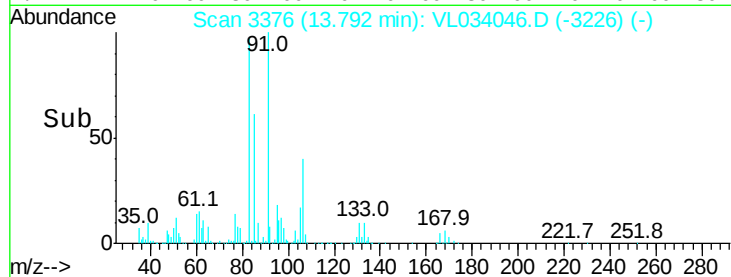
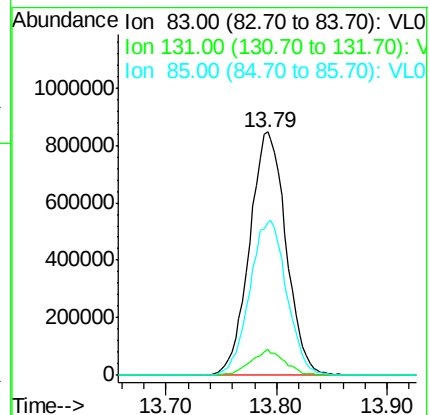
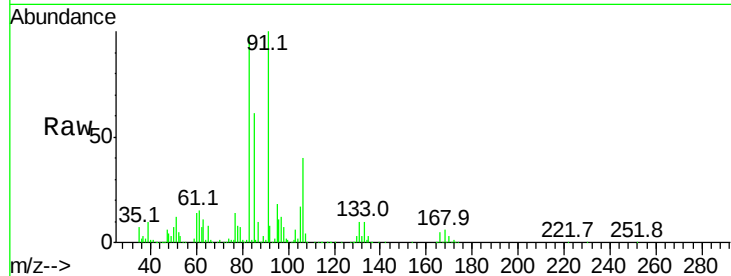
Tgt Ion: 83 Resp: 1937061

Ion Ratio Lower Upper

83 100

131 9.8 5.0 14.9

85 64.5 32.8 98.3



#64

n-propylbenzene

Concen: 8.654 ppbv

RT: 15.68 min Scan# 3962

Delta R.T. -0.01 min

Lab File: VL034046.D

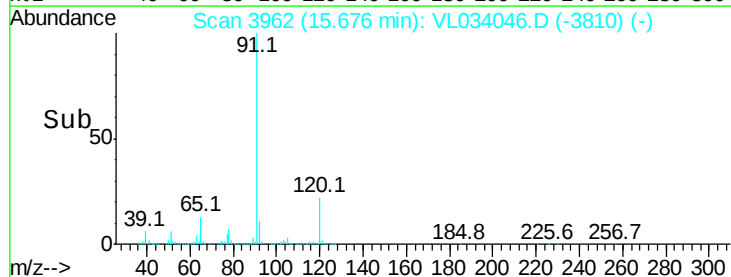
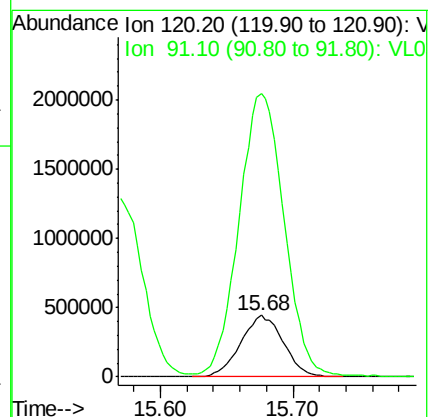
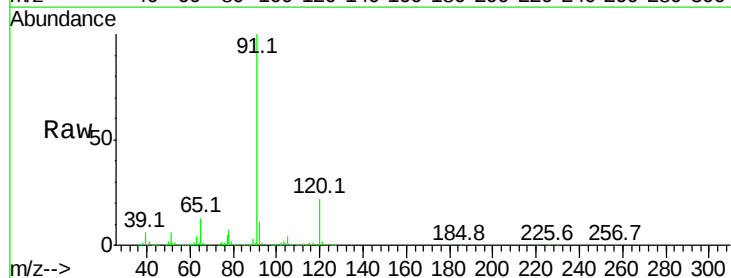
Acq: 18 Jul 2019 10:38

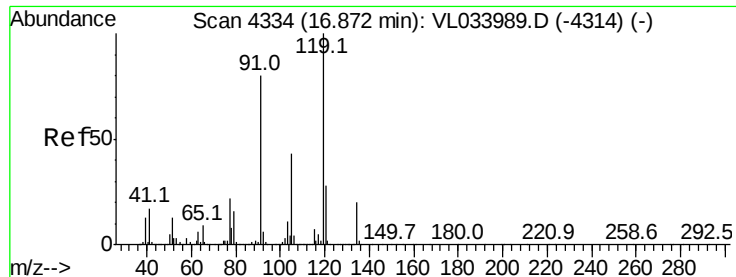
Tgt Ion: 120 Resp: 992121

Ion Ratio Lower Upper

120 100

91 490.0 386.6 579.8





#65

tert-Butylbenzene

Concen: 9.538 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

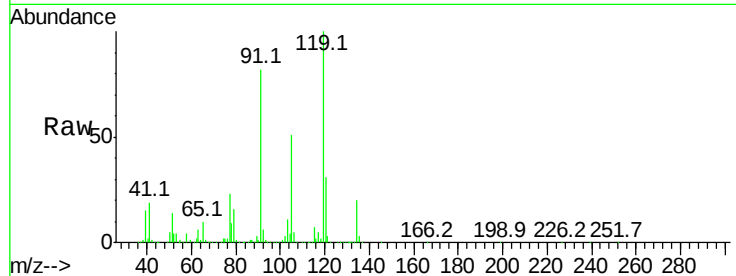
Tgt Ion:119 Resp: 3585402

Ion Ratio Lower Upper

119 100

91 84.0 67.0 100.6

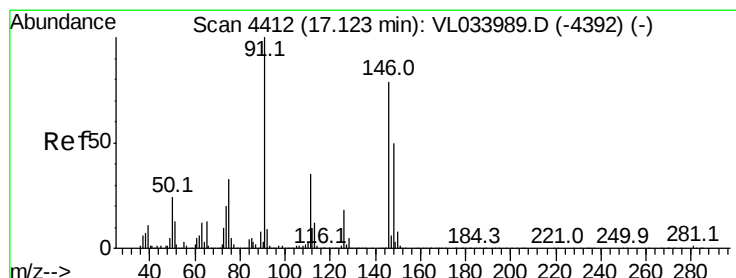
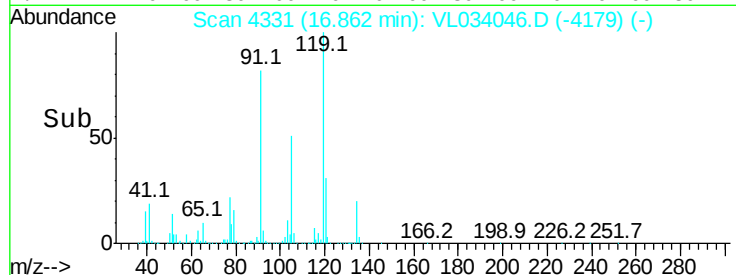
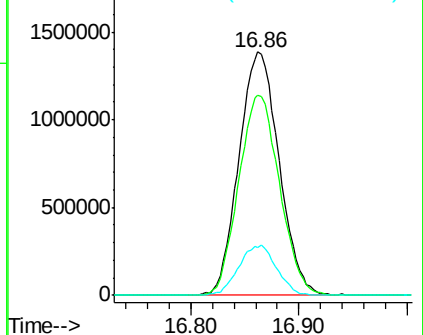
134 19.5 15.8 23.6



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: 7.982 ppbv

RT: 17.11 min Scan# 4408

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

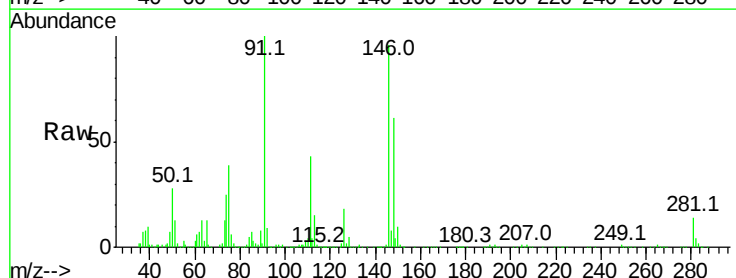
Tgt Ion: 91 Resp: 1535165

Ion Ratio Lower Upper

91 100

126 17.2 13.9 20.9

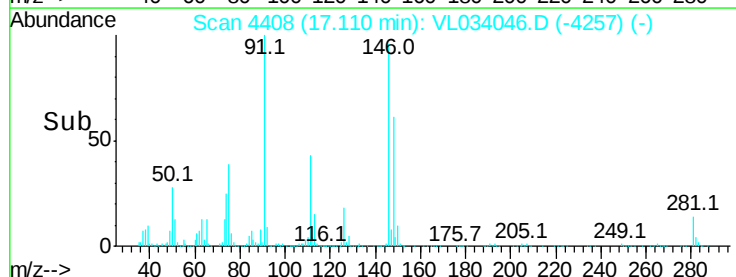
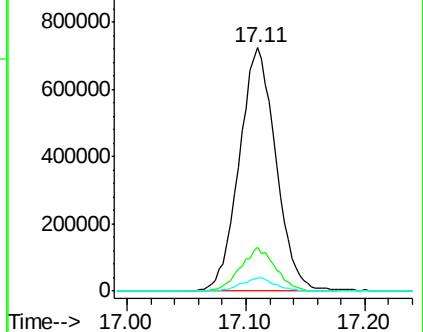
128 5.1 4.6 7.0

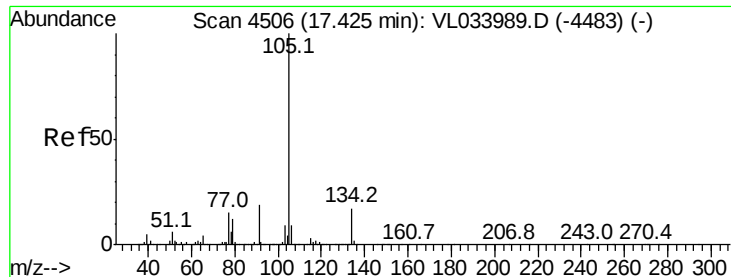


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

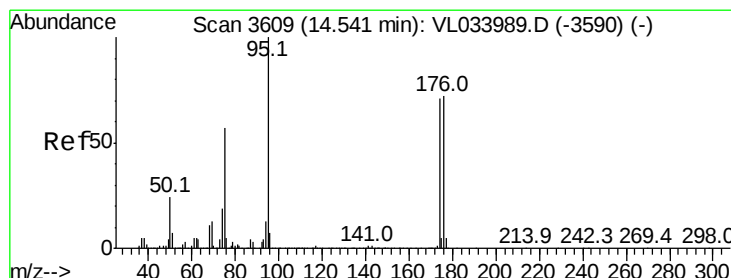
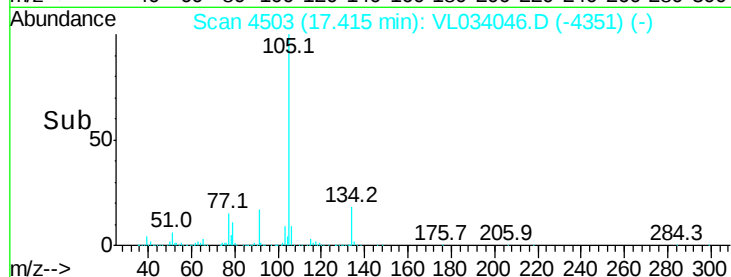
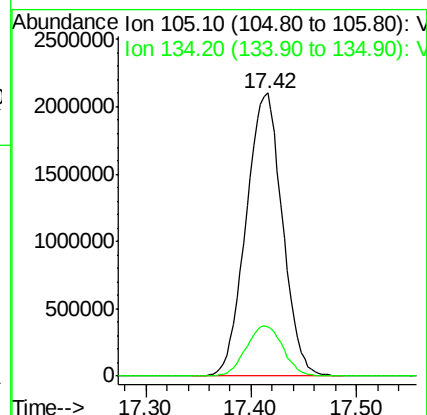
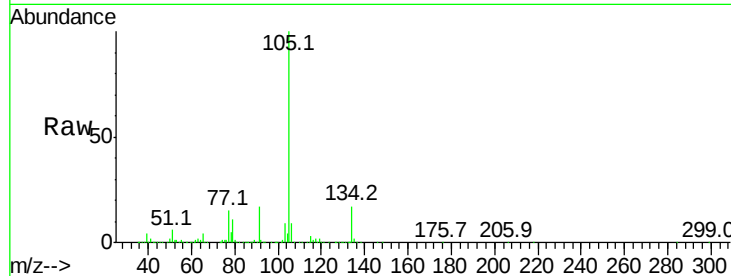




#67  
 sec-Butylbenzene  
 Concen: 9.542 ppbv  
 RT: 17.42 min Scan# 4503  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

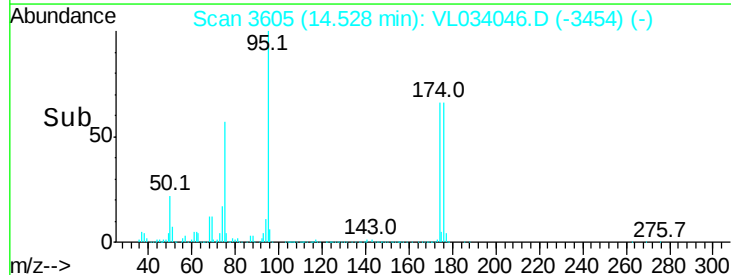
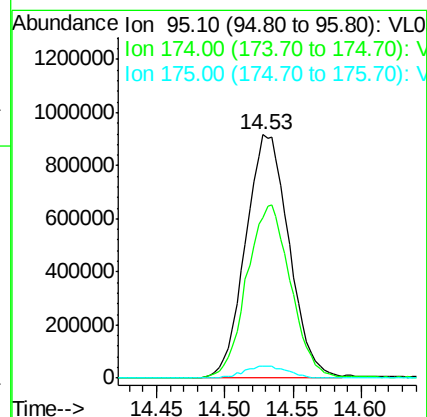
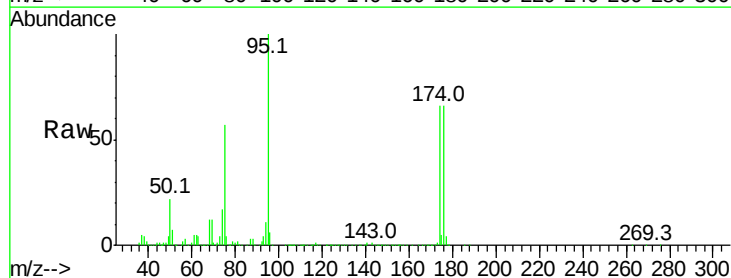
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

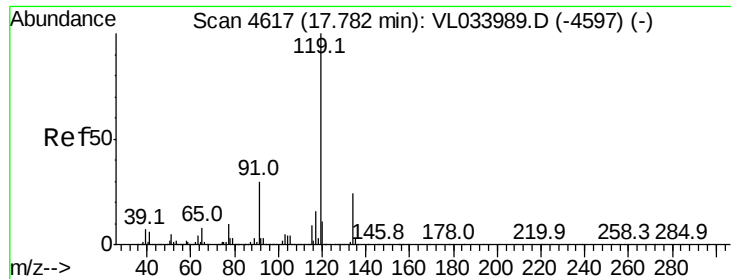
Tgt Ion: 105 Resp: 5034861  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 14.7 22.1



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.020 ppbv  
 RT: 14.53 min Scan# 3605  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

Tgt Ion: 95 Resp: 2030956  
 Ion Ratio Lower Upper  
 95 100  
 174 71.9 60.5 90.7  
 175 5.1 4.0 6.0

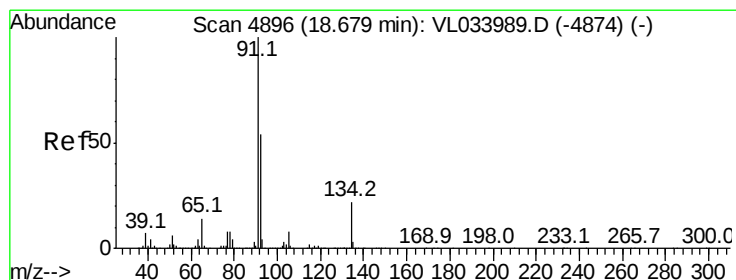
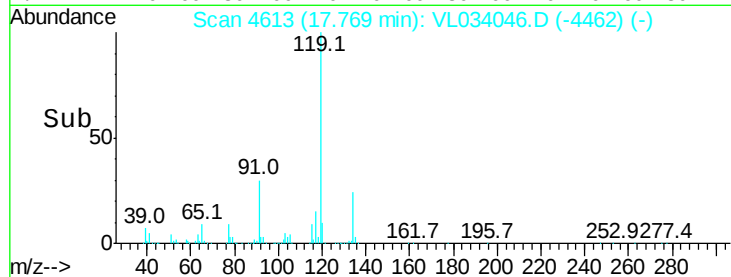
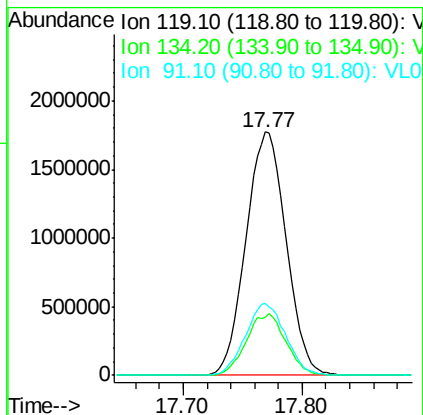
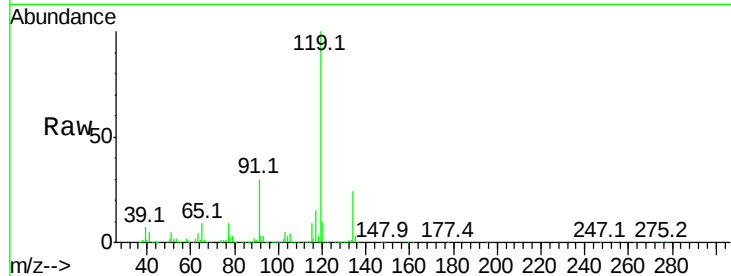




#69  
 p-Isopropyltoluene  
 Concen: 9.516 ppbv  
 RT: 17.77 min Scan# 4613  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

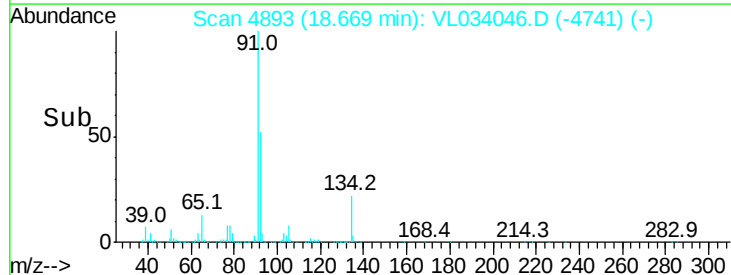
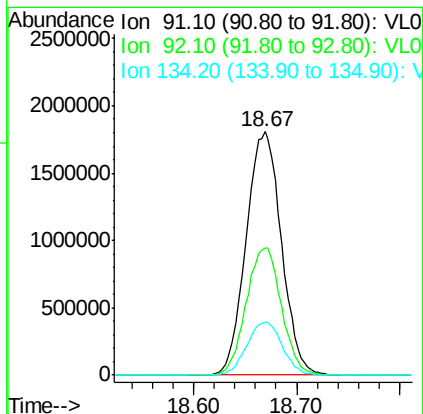
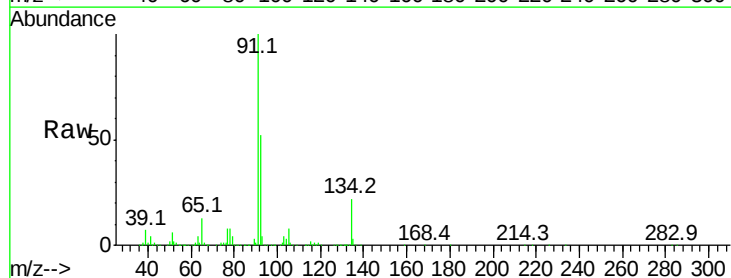
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

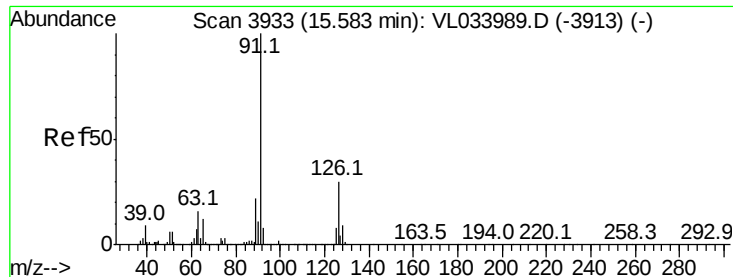
Tgt Ion: 119 Resp: 4140118  
 Ion Ratio Lower Upper  
 119 100  
 134 25.0 20.1 30.1  
 91 29.6 23.6 35.4



#70  
 n-Butylbenzene  
 Concen: 9.363 ppbv  
 RT: 18.67 min Scan# 4893  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

Tgt Ion: 91 Resp: 4279183  
 Ion Ratio Lower Upper  
 91 100  
 92 52.3 42.0 63.0  
 134 21.9 17.9 26.9

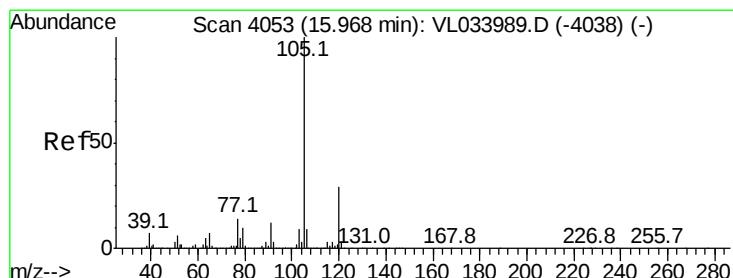
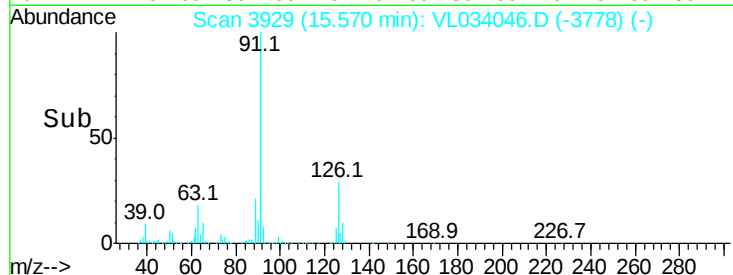
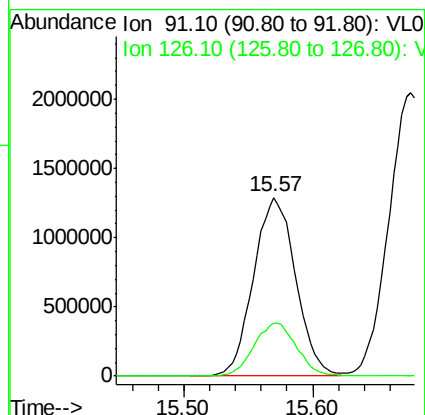
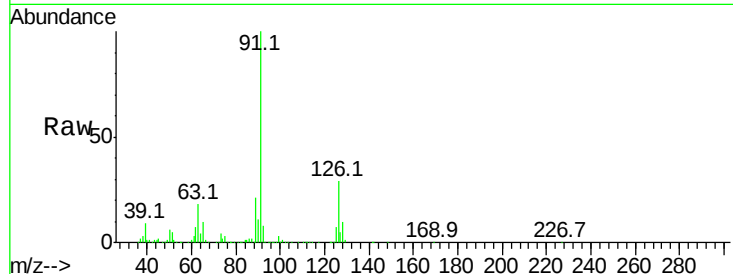




#71  
2-Chlorotoluene  
Concen: 9.080 ppbv  
RT: 15.57 min Scan# 3929  
Delta R.T. -0.01 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

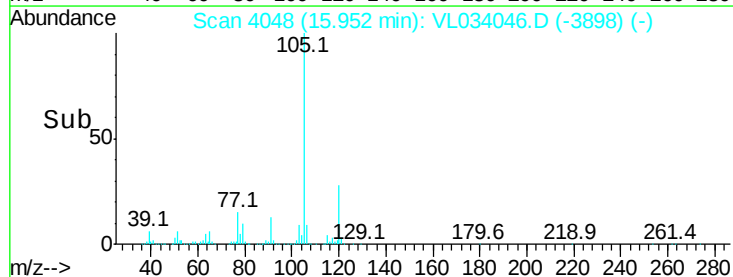
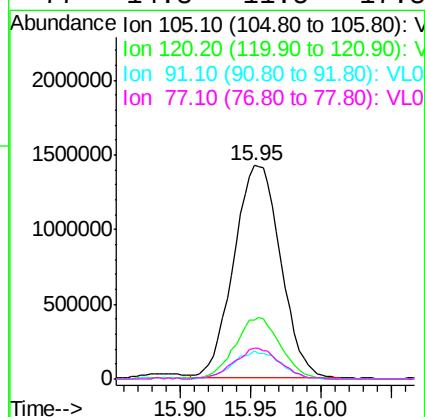
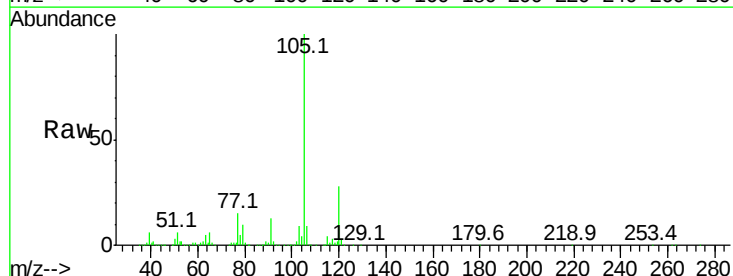
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

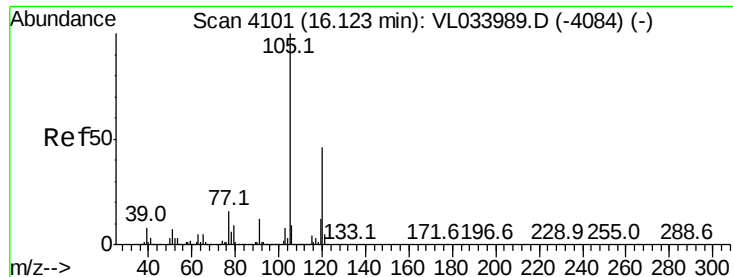
Tgt Ion: 91 Resp: 2937638  
Ion Ratio Lower Upper  
91 100  
126 30.1 12.3 49.3



#72  
4-Ethyltoluene  
Concen: 8.963 ppbv  
RT: 15.95 min Scan# 4048  
Delta R.T. -0.02 min  
Lab File: VL034046.D  
Acq: 18 Jul 2019 10:38

Tgt Ion: 105 Resp: 3309968  
Ion Ratio Lower Upper  
105 100  
120 28.1 24.1 36.1  
91 13.0 10.6 16.0  
77 14.3 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 9.381 ppbv

RT: 16.11 min Scan# 4098

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

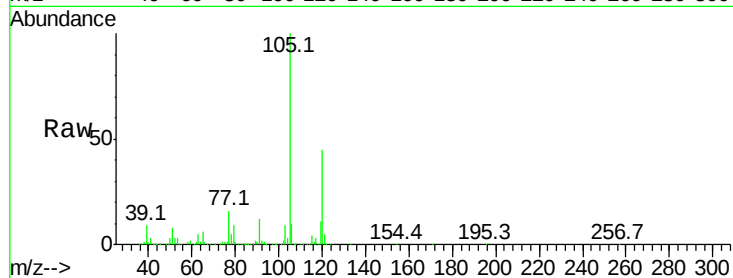
VSTDCCC010EC

Tgt Ion:105 Resp: 3223531

Ion Ratio Lower Upper

105 100

120 45.4 36.4 54.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.11

1500000

1000000

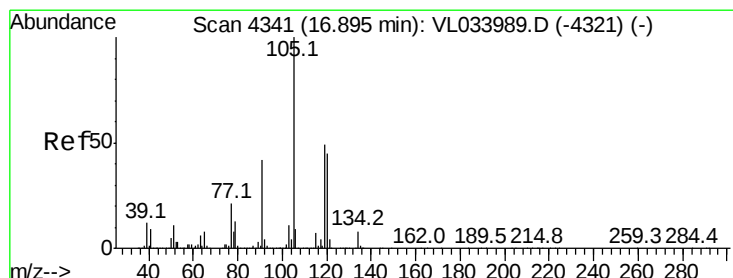
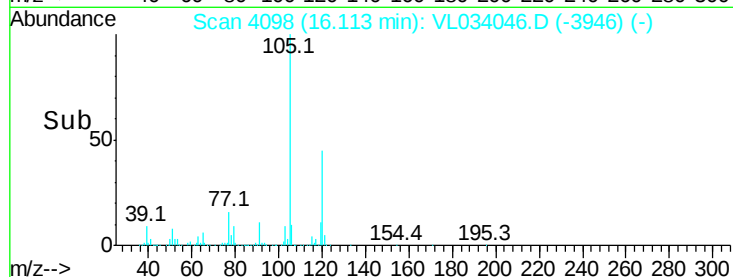
500000

0

Time--> 16.00

16.10

16.20



#74

1,2,4-Trimethylbenzene

Concen: 8.873 ppbv

RT: 16.88 min Scan# 4336

Delta R.T. -0.02 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Tgt Ion:105 Resp: 3376745

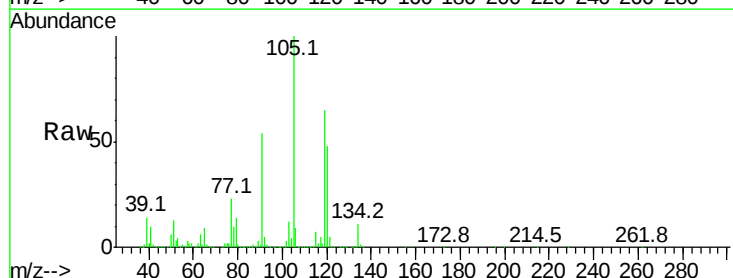
Ion Ratio Lower Upper

105 100

120 47.6 36.2 54.2

91 54.0 34.3 51.5#

77 22.7 17.1 25.7



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

2000000

1500000

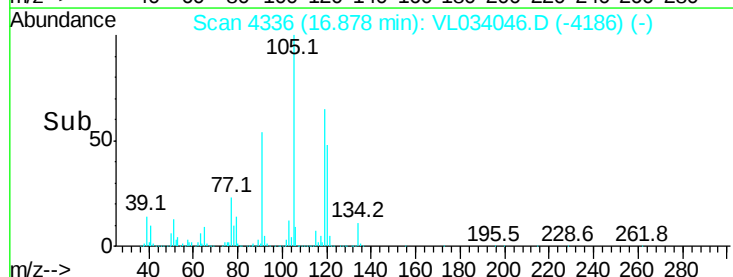
1000000

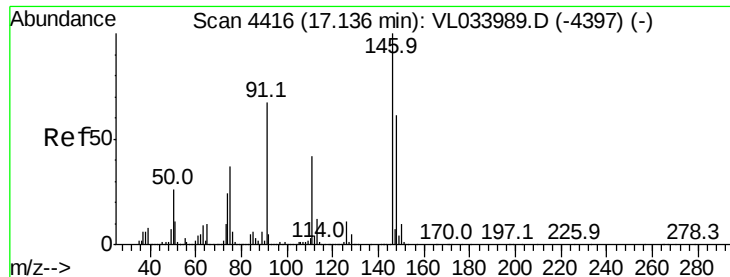
500000

0

Time--> 16.80

16.90





#75

1,3-Dichlorobenzene

Concen: 8.105 ppbv

RT: 17.12 min Scan# 4412

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

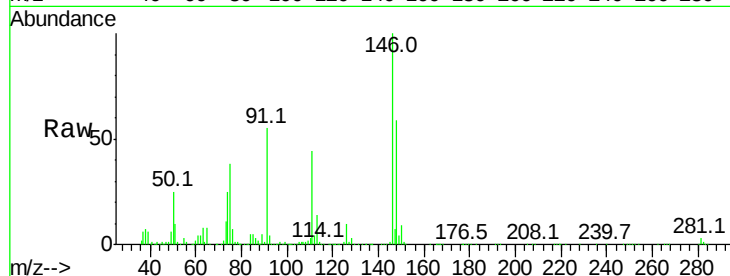
Tgt Ion:146 Resp: 1959371

Ion Ratio Lower Upper

146 100

111 44.7 22.3 66.9

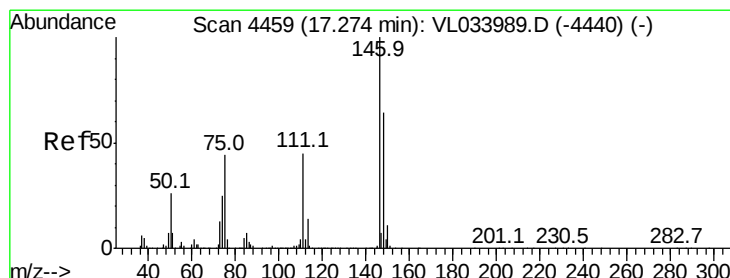
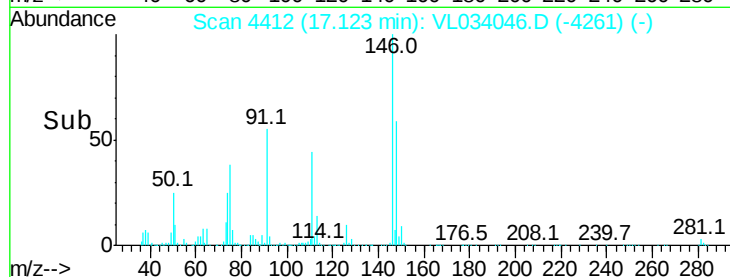
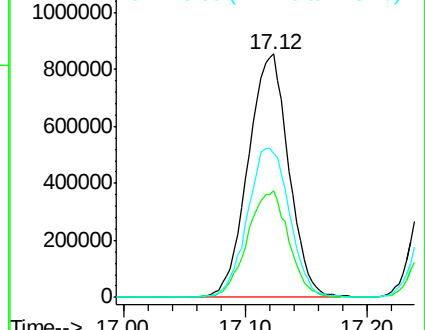
148 63.8 32.0 96.2



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: 8.302 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. -0.02 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

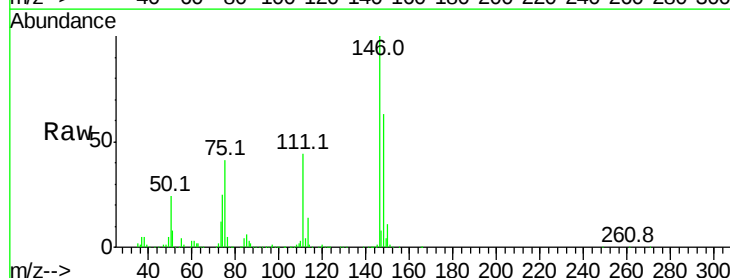
Tgt Ion:146 Resp: 1890293

Ion Ratio Lower Upper

146 100

111 44.3 21.9 65.5

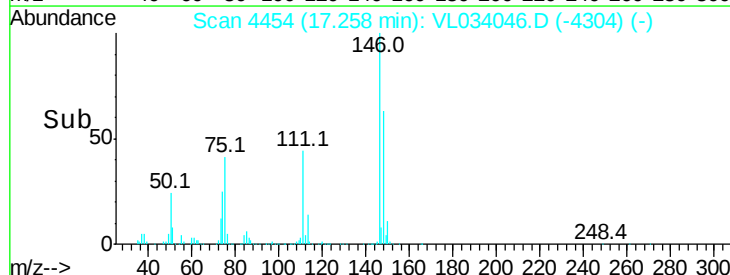
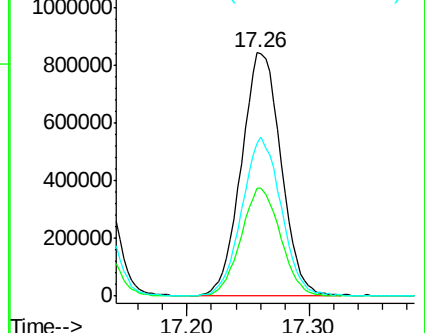
148 65.0 32.5 97.5

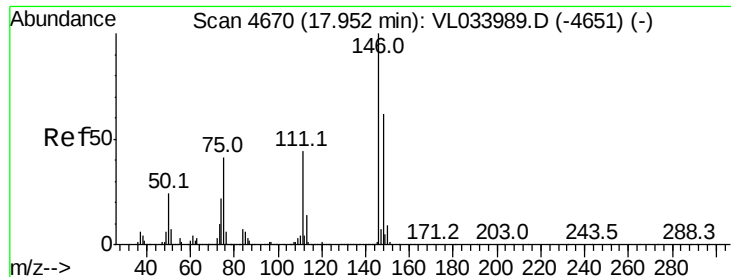


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

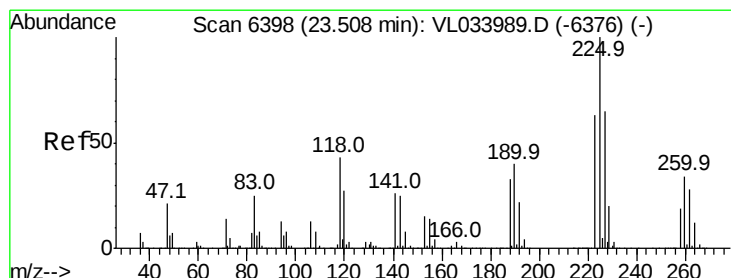
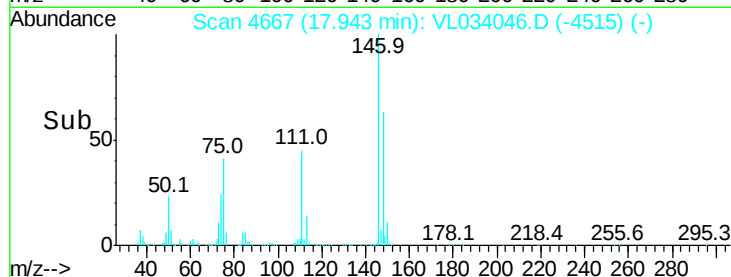
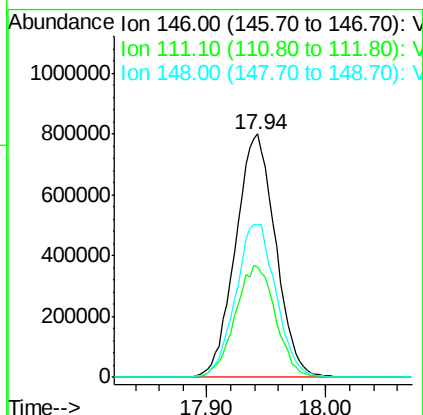
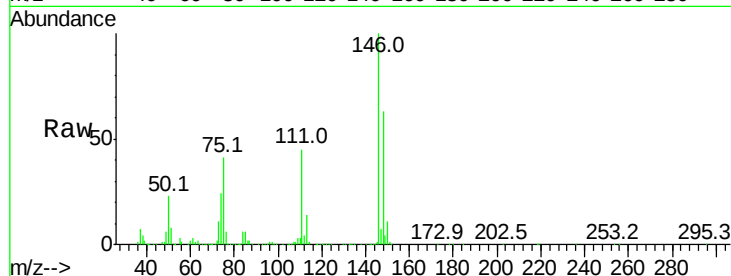




#77  
 1,2-Dichlorobenzene  
 Concen: 8.308 ppbv  
 RT: 17.94 min Scan# 4667  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

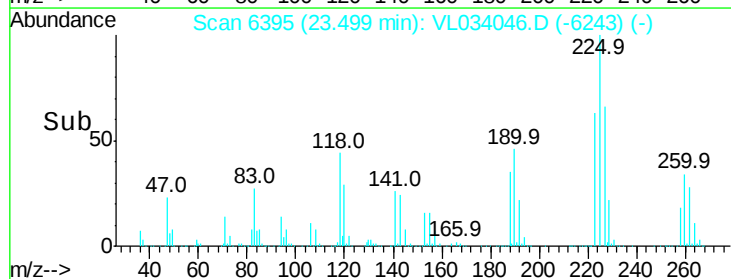
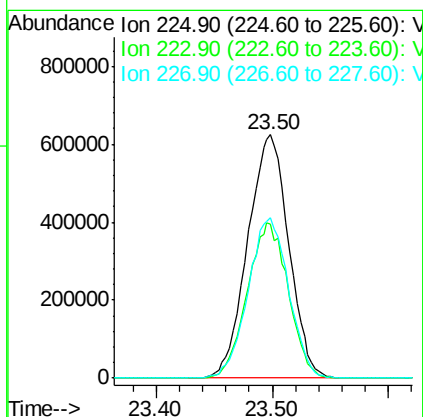
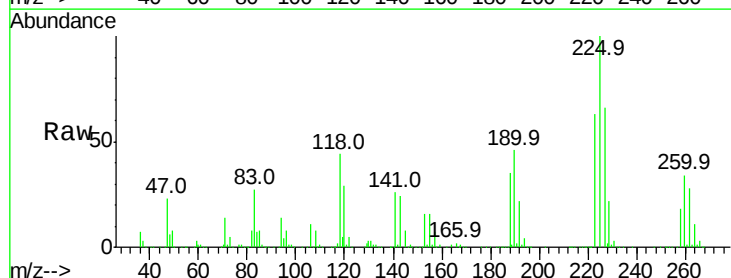
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

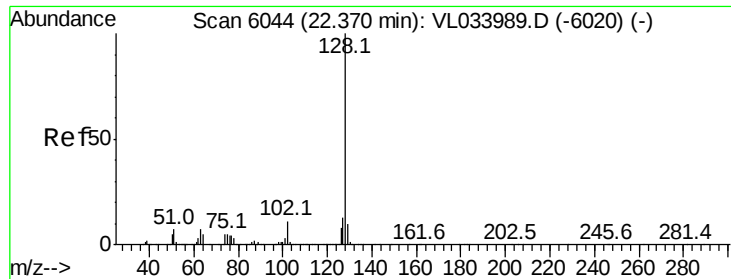
Tgt Ion:146 Resp: 1859748  
 Ion Ratio Lower Upper  
 146 100  
 111 46.5 22.7 68.1  
 148 63.8 32.1 96.3



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 8.065 ppbv  
 RT: 23.50 min Scan# 6395  
 Delta R.T. -0.01 min  
 Lab File: VL034046.D  
 Acq: 18 Jul 2019 10:38

Tgt Ion:225 Resp: 1536192  
 Ion Ratio Lower Upper  
 225 100  
 223 63.4 51.5 77.3  
 227 65.1 52.1 78.1





#79

Naphthalene

Concen: 8.154 ppbv

RT: 22.35 min Scan# 6039

Delta R.T. -0.02 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

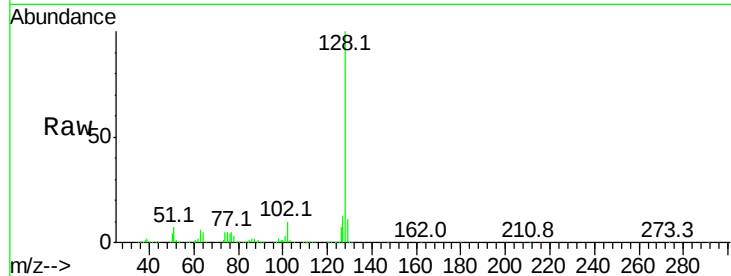
Tgt Ion:128 Resp: 2608907

Ion Ratio Lower Upper

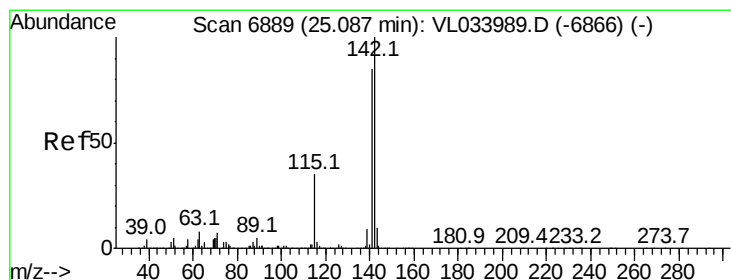
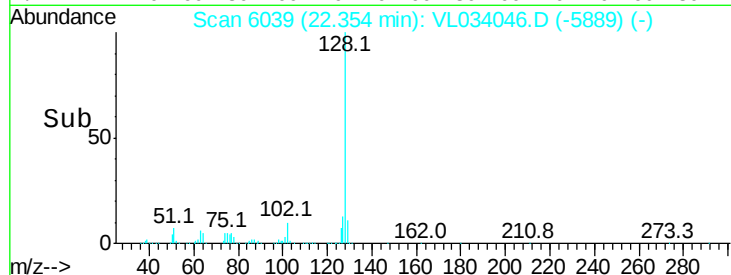
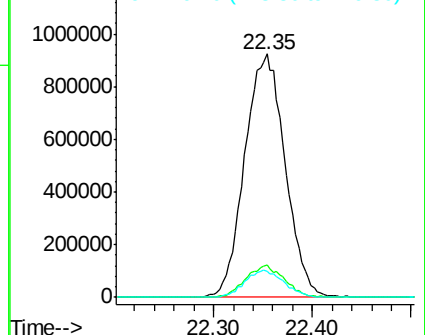
128 100

127 13.1 10.6 15.8

129 10.9 8.3 12.5



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: 6.005 ppbv

RT: 25.08 min Scan# 6886

Delta R.T. -0.01 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

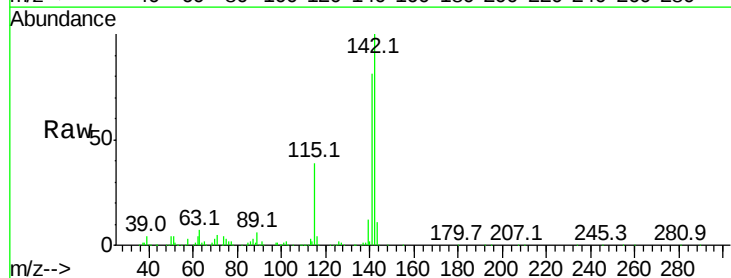
Tgt Ion:142 Resp: 699248

Ion Ratio Lower Upper

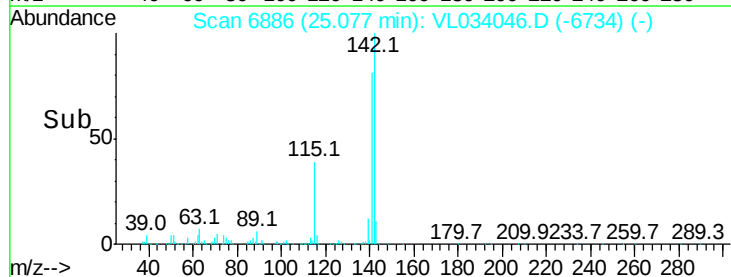
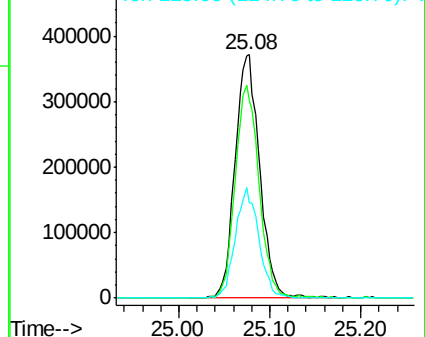
142 100

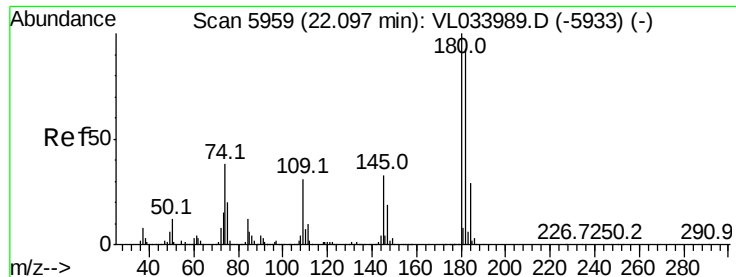
141 84.8 68.2 102.2

115 43.4 29.9 44.9



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: 7.598 ppbv

RT: 22.08 min Scan# 5953

Delta R.T. -0.02 min

Lab File: VL034046.D

Acq: 18 Jul 2019 10:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

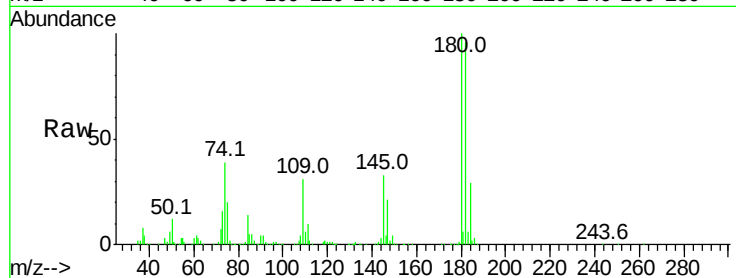
Tgt Ion:180 Resp: 1561444

Ion Ratio Lower Upper

180 100

182 94.5 76.6 114.8

184 30.5 24.6 36.8



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

