

Data File : VL034173.D  
Acq On : 17 Sep 2019 6:09  
Operator : SY/AP  
Sample : VSTDIC0.5  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Quant Time: Sep 17 06:56:58 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 17 05:58:04 2019  
QLast Update : Tue Sep 17 05:58:04 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.70  | 49   | 1295474  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.22  | 114  | 2156251  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.17 | 117  | 2190184  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.50 95 1926154 10.66 ppbv -0.01  
Spiked Amount 10.000 Range 65 - 135 Recovery = 106.60%

#### Target Compounds

|                                |      |     |        |       |        | Qvalue |
|--------------------------------|------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 115211 | 0.561 | ppbv   | 95     |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 79679  | 0.544 | ppbv   | 97     |
| 4) Chloromethane               | 3.13 | 50  | 48521  | 0.538 | ppbv # | 86     |
| 5) Vinyl Chloride              | 3.25 | 62  | 39103  | 0.475 | ppbv # | 83     |
| 6) Bromomethane                | 3.47 | 94  | 20099  | 0.501 | ppbv   | 95     |
| 7) Chloroethane                | 3.55 | 64  | 7739   | 0.275 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 91841  | 0.536 | ppbv   | 97     |
| 9) Propene                     | 3.00 | 41  | 37624  | 0.470 | ppbv   | 98     |
| 10) Heptane                    | 8.18 | 43  | 98951  | 0.474 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 91183  | 0.523 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 30057  | 0.259 | ppbv # | 18     |
| 13) Ethanol                    | 3.61 | 45  | 8766   | 0.562 | ppbv # | 35     |
| 14) Bromoethene                | 3.74 | 108 | 22572  | 0.451 | ppbv   | 90     |
| 15) Acetone                    | 3.86 | 43  | 101332 | 0.648 | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.32 | 39  | 36585  | 0.464 | ppbv   | 96     |
| 17) tert-Butyl alcohol         | 4.32 | 59  | 62940  | 0.558 | ppbv   | 97     |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 25647  | 0.487 | ppbv   | 87     |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 65922  | 0.630 | ppbv # | 95     |
| 20) Methylene Chloride         | 4.35 | 84  | 28873  | 0.564 | ppbv   | 100    |
| 21) Allyl Chloride             | 4.43 | 41  | 48204  | 0.470 | ppbv   | 92     |
| 22) trans-1,2-Dichloroethene   | 4.91 | 96  | 17243  | 0.326 | ppbv   | 94     |
| 23) Vinyl Acetate              | 5.10 | 43  | 126254 | 0.480 | ppbv # | 96     |
| 24) 1,1-Dichloroethane         | 5.03 | 63  | 43623  | 0.249 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.72 | 43  | 180788 | 0.529 | ppbv   | 99     |
| 26) Hexane                     | 5.72 | 57  | 71982  | 0.474 | ppbv   | 91     |
| 27) Carbon Disulfide           | 4.57 | 76  | 55692  | 0.409 | ppbv # | 87     |
| 28) Methyl tert-Butyl Ether    | 5.07 | 73  | 102314 | 0.465 | ppbv   | 99     |
| 29) Chloroform                 | 5.79 | 83  | 104065 | 0.508 | ppbv   | 89     |
| 30) Cyclohexane                | 7.18 | 84  | 26596  | 0.245 | ppbv # | 29     |
| 31) cis-1,2-Dichloroethene     | 5.58 | 61  | 71726  | 0.493 | ppbv # | 89     |
| 32) 1,1,1-Trichloroethane      | 6.55 | 97  | 91311  | 0.471 | ppbv   | 97     |
| 34) 2-Butanone                 | 5.28 | 43  | 116324 | 0.552 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.07 | 117 | 86649  | 0.509 | ppbv   | 89     |
| 36) Benzene                    | 6.93 | 78  | 128298 | 0.521 | ppbv   | 95     |
| 37) 1,2-Dichloroethane         | 6.35 | 62  | 87184  | 0.559 | ppbv   | 98     |
| 38) Trichloroethene            | 7.89 | 130 | 42302  | 0.458 | ppbv # | 80     |
| 39) 1,2-Dichloropropane        | 7.67 | 63  | 39594  | 0.372 | ppbv   | 91     |
| 40) 1,4-Dioxane                | 7.91 | 88  | 8000   | 0.208 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.10 | 42  | 23973  | 0.191 | ppbv # | 42     |
| 42) Bromodichloromethane       | 7.84 | 83  | 63036  | 0.316 | ppbv # | 97     |
| 43) Methyl Methacrylate        | 8.07 | 69  | 21452  | 0.211 | ppbv # | 1      |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 17 05:58:04 2019  
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Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.92  | 57   | 131441   | 0.286 | ppbv # | 40       |
| 45) t-1,3-Dichloropropene     | 9.35  | 75   | 14750    | 0.123 | ppbv   | 90       |
| 46) cis-1,3-Dichloropropene   | 8.77  | 75   | 61636    | 0.422 | ppbv   | 87       |
| 47) 1,1,2-Trichloroethane     | 9.54  | 97   | 34346    | 0.356 | ppbv   | 87       |
| 48) Dibromochloromethane      | 10.37 | 129  | 39405    | 0.270 | ppbv # | 10       |
| 49) Bromoform                 | 13.12 | 173  | 35253    | 0.279 | ppbv # | 53       |
| 50) 4-Methyl-2-Pentanone      | 8.82  | 43   | 166555   | 0.519 | ppbv   | 91       |
| 51) 2-Hexanone                | 10.21 | 43   | 123269   | 0.445 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.29 | 164  | 30177    | 0.348 | ppbv # | 70       |
| 53) Toluene                   | 9.87  | 91   | 133901   | 0.491 | ppbv   | 94       |
| 54) 1,2-Dibromoethane         | 10.68 | 107  | 65080    | 0.452 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.21 | 131  | 42730    | 0.450 | ppbv # | 56       |
| 57) Chlorobenzene             | 12.22 | 112  | 111958   | 0.592 | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.79 | 91   | 194630   | 0.541 | ppbv   | 91       |
| 59) m/p-Xylene                | 13.08 | 91   | 136723   | 0.466 | ppbv # | 32       |
| 60) o-Xylene                  | 13.78 | 91   | 160286   | 0.547 | ppbv   | 100      |
| 61) Styrene                   | 13.61 | 104  | 105336   | 0.484 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.75 | 105  | 211100   | 0.554 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.76 | 83   | 125423   | 0.525 | ppbv   | 100      |
| 64) n-propylbenzene           | 15.65 | 120  | 18726    | 0.196 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.83 | 119  | 83558    | 0.254 | ppbv # | 1        |
| 66) Benzyl Chloride           | 17.08 | 91   | 24177    | 0.203 | ppbv # | 60       |
| 67) sec-Butylbenzene          | 17.39 | 105  | 111042   | 0.234 | ppbv # | 59       |
| 69) p-Isopropyltoluene        | 17.74 | 119  | 126732   | 0.334 | ppbv # | 65       |
| 70) n-Butylbenzene            | 18.64 | 91   | 246767   | 0.568 | ppbv   | 94       |
| 71) 2-Chlorotoluene           | 15.54 | 91   | 165718   | 0.532 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.93 | 105  | 80721    | 0.244 | ppbv # | 46       |
| 73) 1,3,5-Trimethylbenzene    | 16.09 | 105  | 170296   | 0.530 | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 16.85 | 105  | 93265    | 0.281 | ppbv # | 79       |
| 75) 1,3-Dichlorobenzene       | 17.09 | 146  | 52685    | 0.299 | ppbv # | 21       |
| 76) 1,4-Dichlorobenzene       | 17.23 | 146  | 47763    | 0.259 | ppbv # | 14       |
| 77) 1,2-Dichlorobenzene       | 17.91 | 146  | 68180    | 0.379 | ppbv   | 62       |
| 78) Hexachloro-1,3-Butadiene  | 23.47 | 225  | 33027    | 0.272 | ppbv # | 18       |
| 80) Naphthalene,2-methyl-     | 25.05 | 142  | 74812    | 0.743 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 22.04 | 180  | 48757    | 0.300 | ppbv # | 15       |

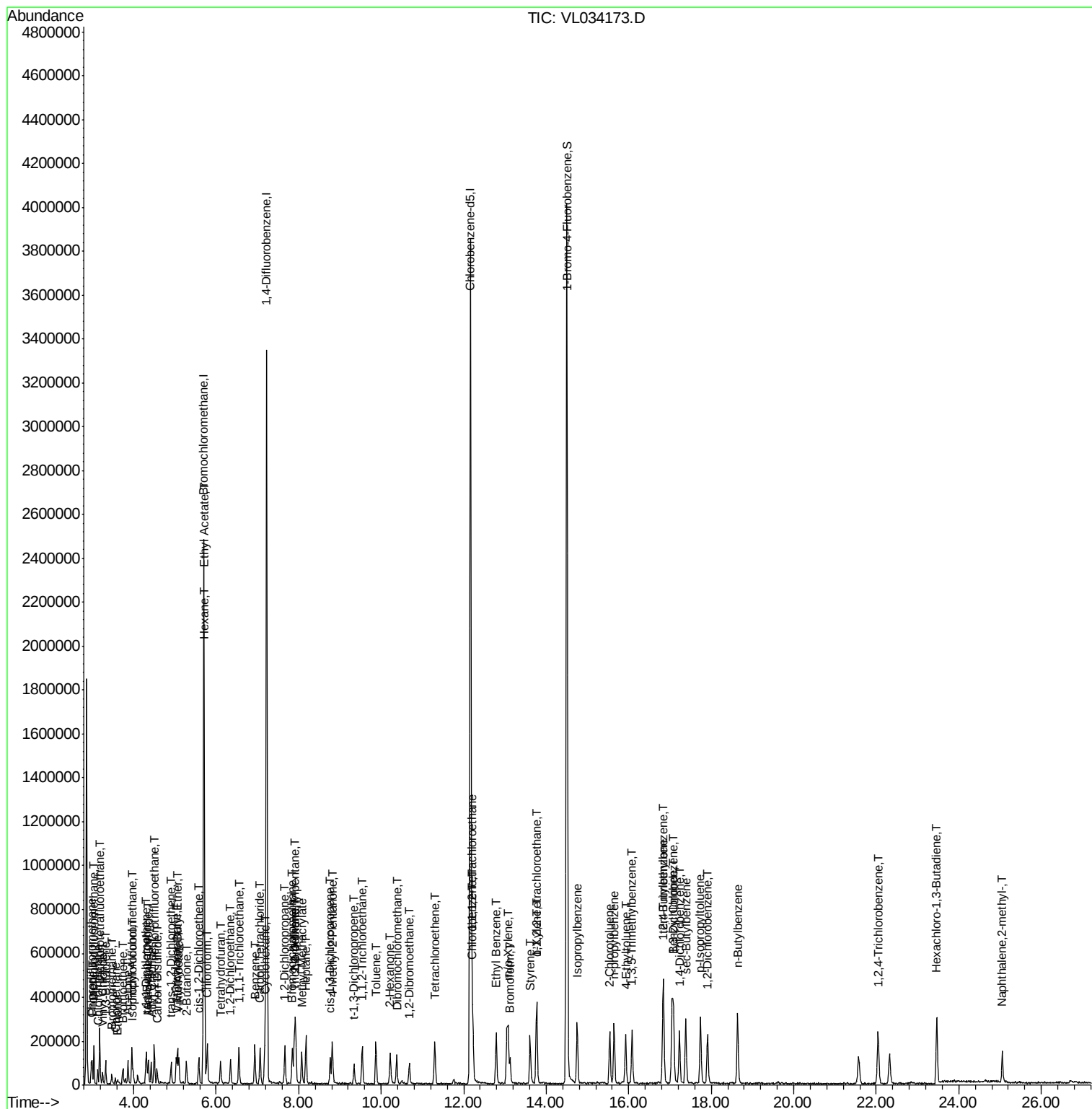
(#) = qualifier out of range (m) = manual integration (+) = signals summed

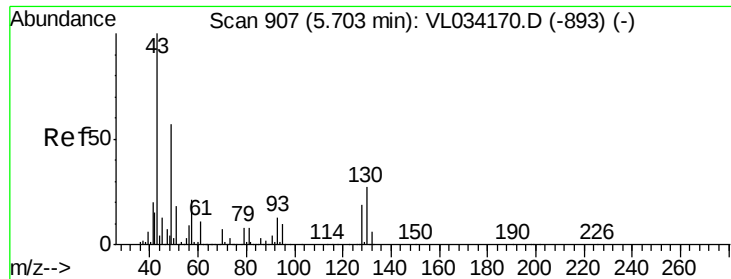
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MSVOA\_L  
**ClientSampleId :**  
VSTDICCO.5

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

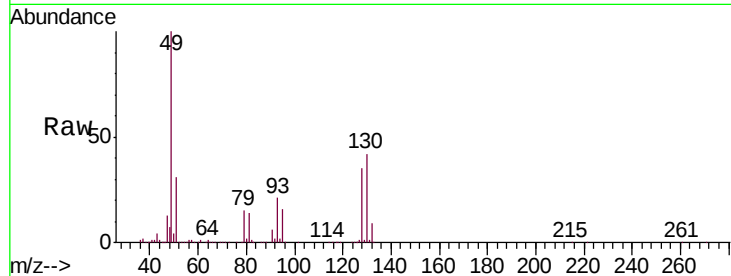
Tgt Ion: 49 Resp: 1295474

Ion Ratio Lower Upper

49 100

128 35.2 17.6 52.9

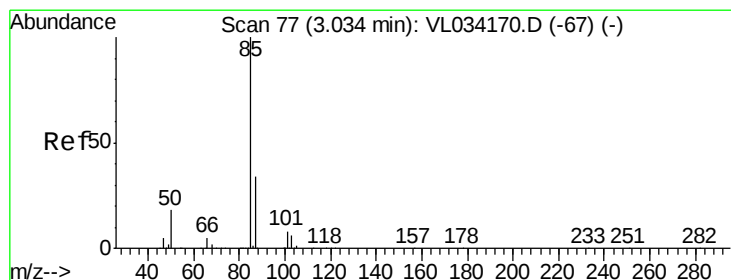
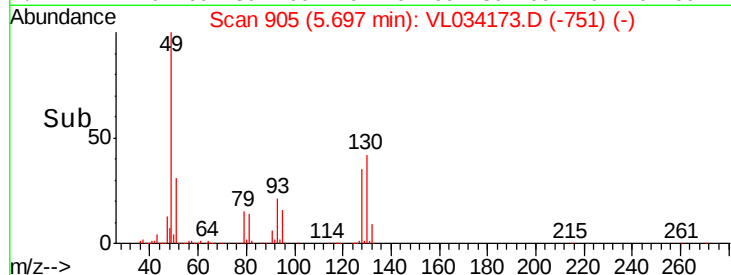
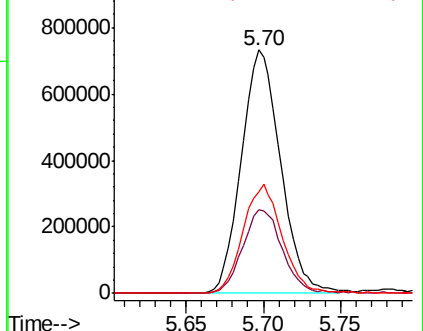
130 44.9 22.3 66.9



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: 0.561 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034173.D

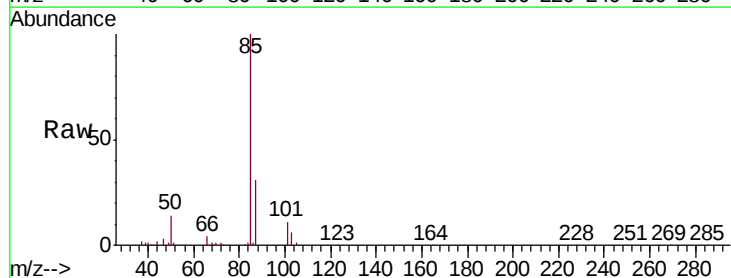
Acq: 17 Sep 2019 6:09

Tgt Ion: 85 Resp: 115211

Ion Ratio Lower Upper

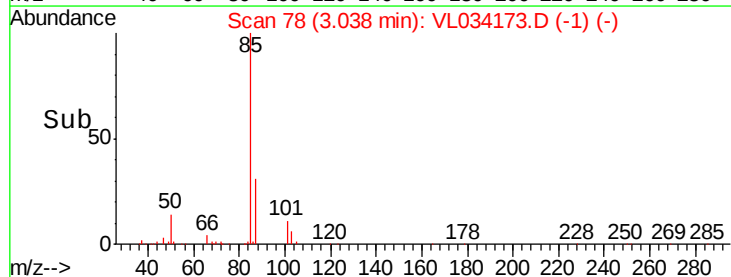
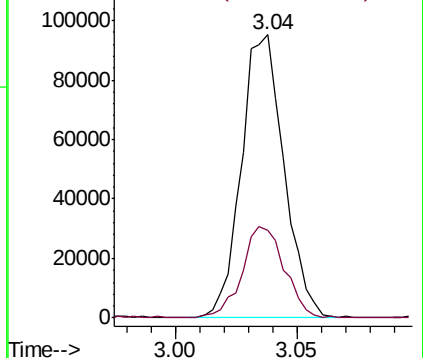
85 100

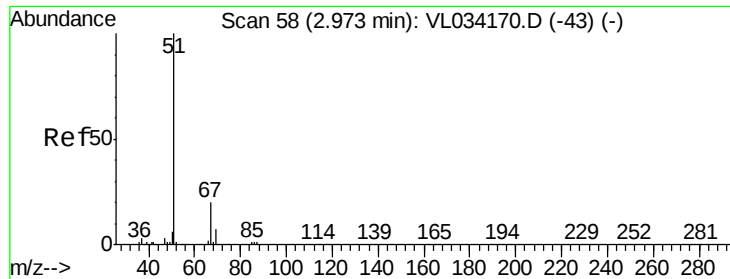
87 31.1 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.544 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

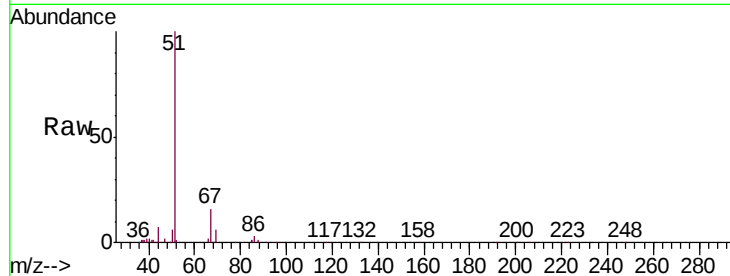
VSTDIC0.5

Tgt Ion: 51 Resp: 79679

Ion Ratio Lower Upper

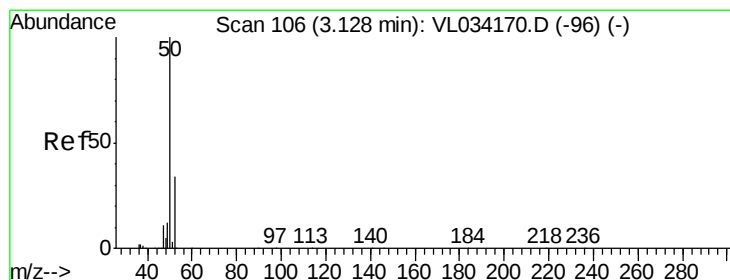
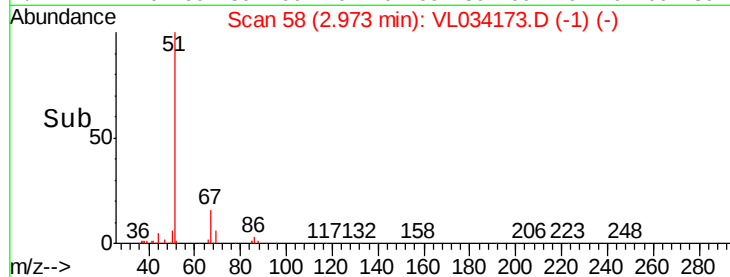
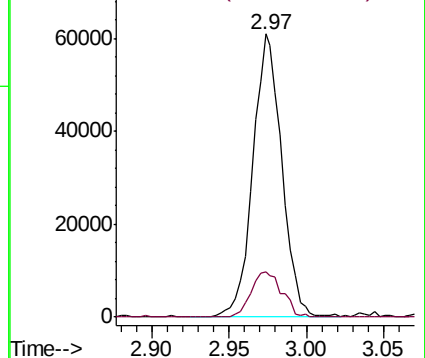
51 100

67 17.0 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034173.D

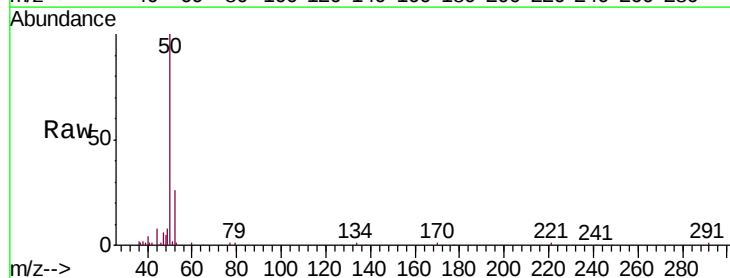
Acq: 17 Sep 2019 6:09

Tgt Ion: 50 Resp: 48521

Ion Ratio Lower Upper

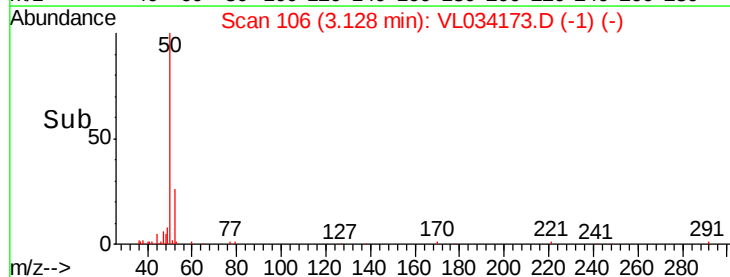
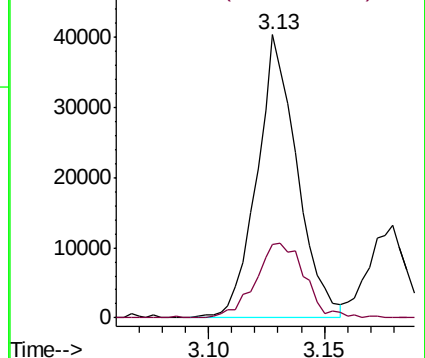
50 100

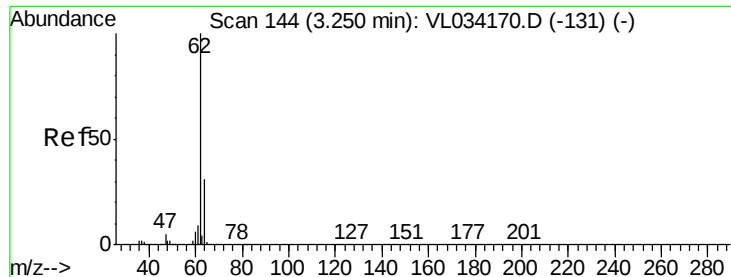
52 26.2 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.475 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

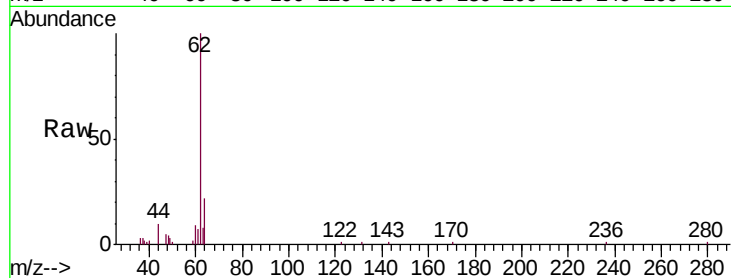
VSTDIC0.5

Tgt Ion: 62 Resp: 39103

Ion Ratio Lower Upper

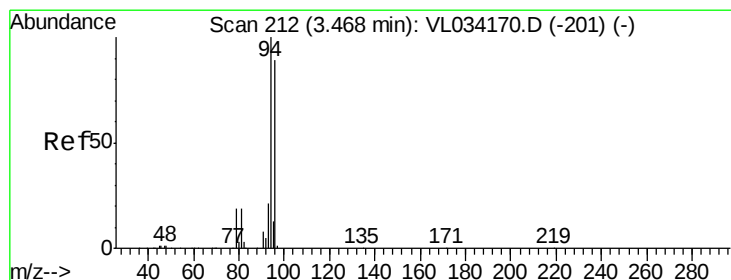
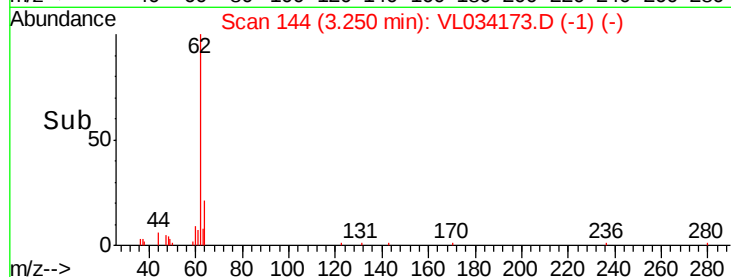
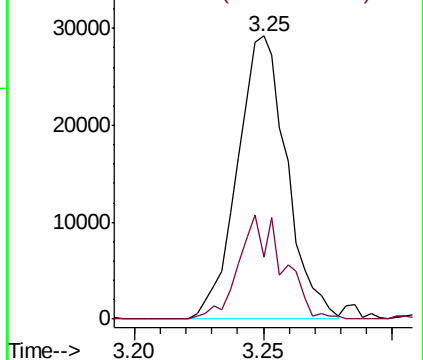
62 100

64 22.0 25.2 37.8#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.501 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL034173.D

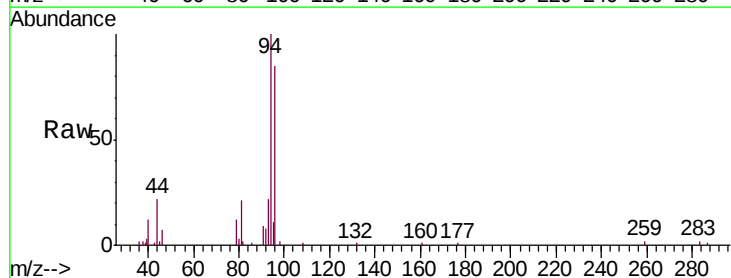
Acq: 17 Sep 2019 6:09

Tgt Ion: 94 Resp: 20099

Ion Ratio Lower Upper

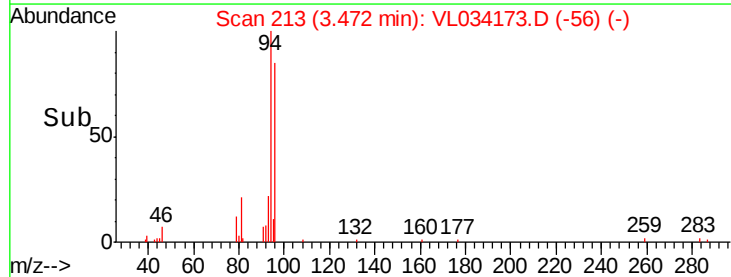
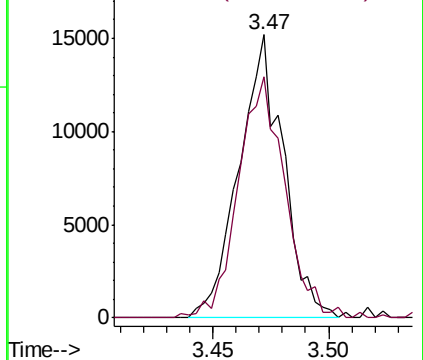
94 100

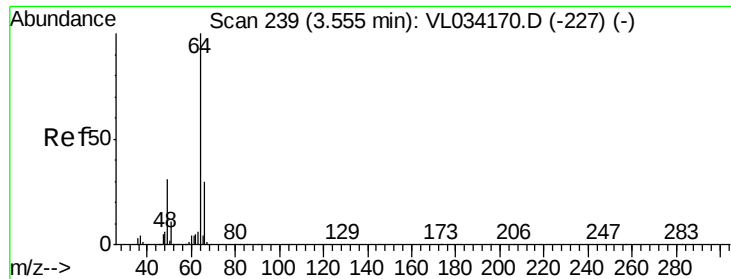
96 84.1 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.275 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

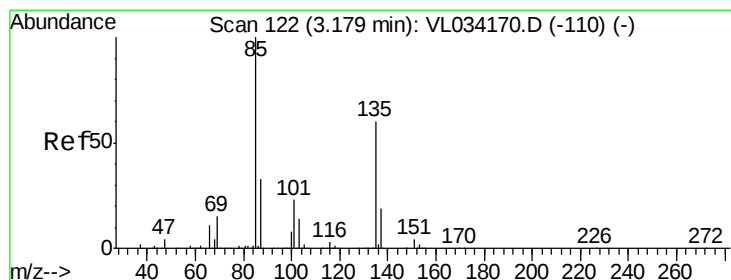
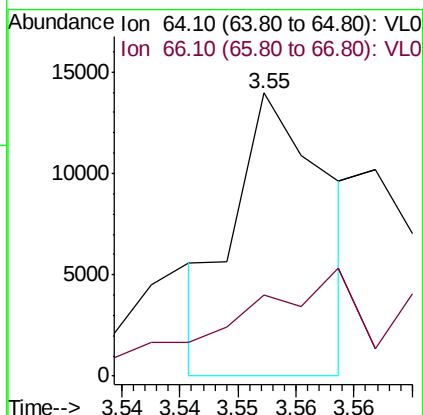
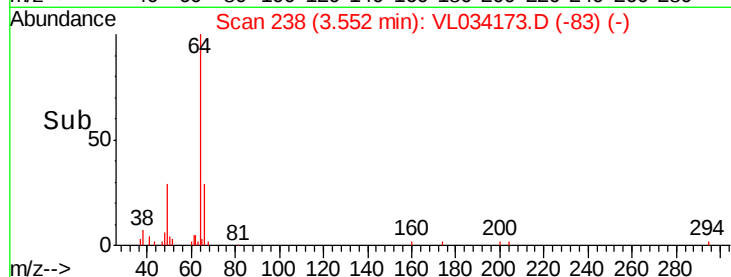
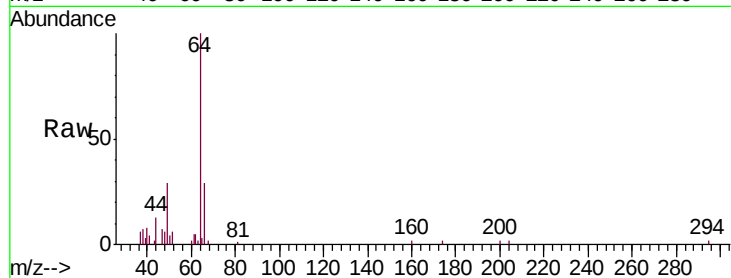
VSTDIC0.5

Tgt Ion: 64 Resp: 7739

Ion Ratio Lower Upper

64 100

66 27.8 24.2 36.4



#8

Dichlorotetrafluoroethane

Concen: 0.536 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034173.D

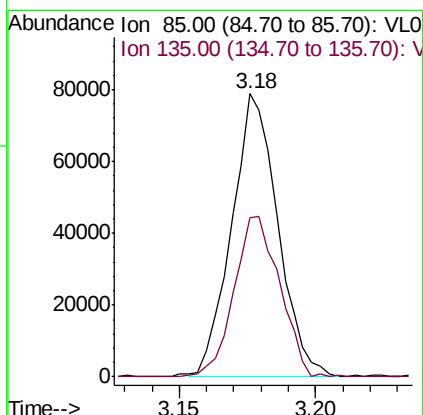
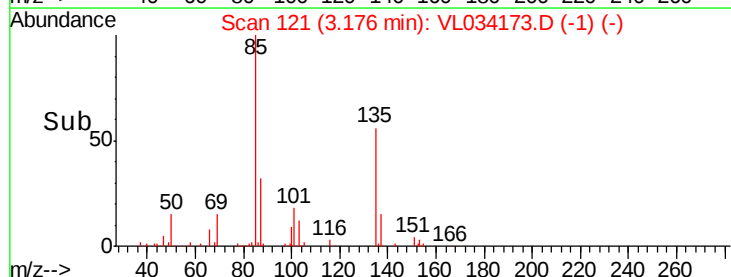
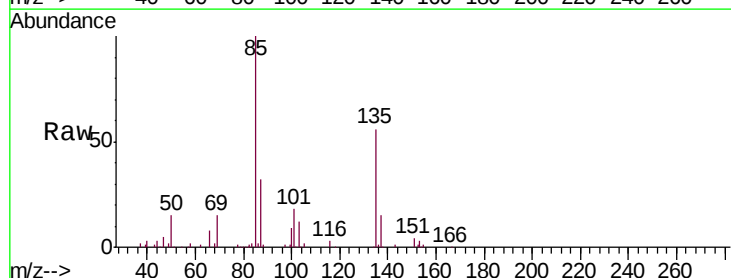
Acq: 17 Sep 2019 6:09

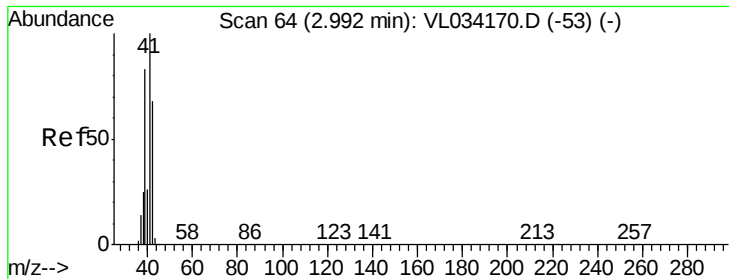
Tgt Ion: 85 Resp: 91841

Ion Ratio Lower Upper

85 100

135 56.6 47.3 70.9





#9

Propene

Concen: 0.470 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

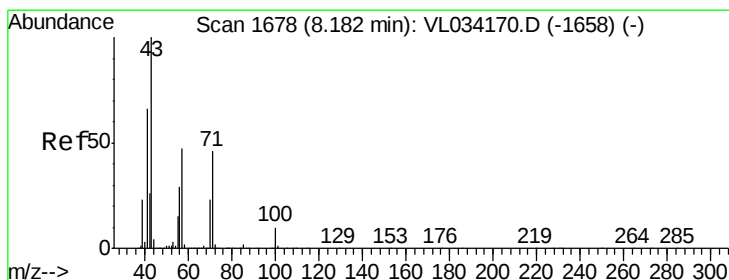
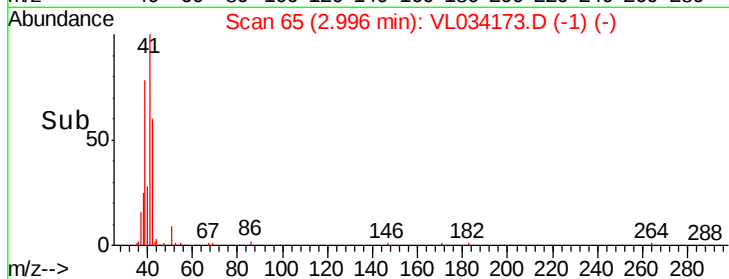
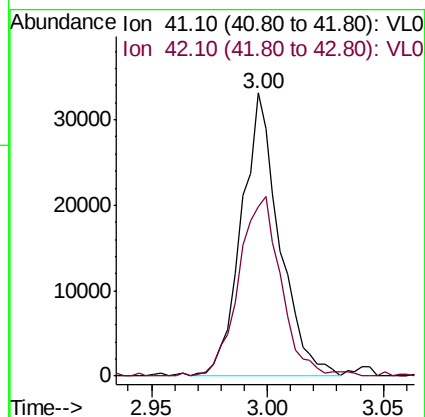
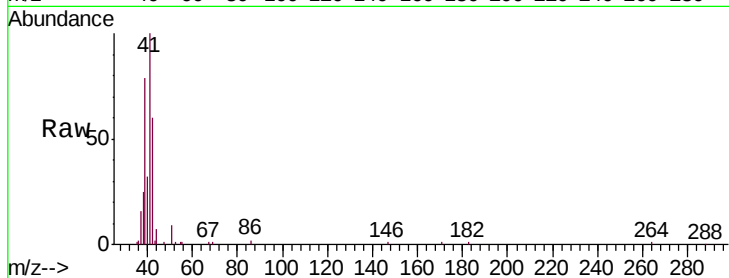
VSTDIC0.5

Tgt Ion: 41 Resp: 37624

Ion Ratio Lower Upper

41 100

42 71.1 55.8 83.6



#10

Heptane

Concen: 0.474 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034173.D

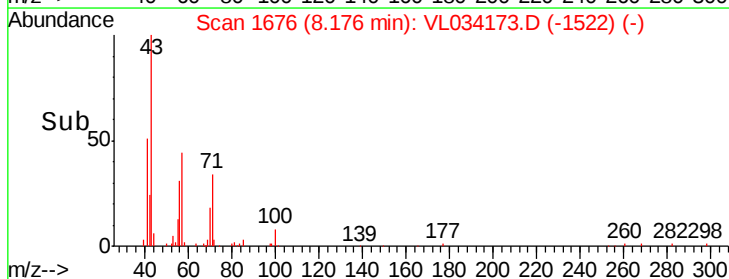
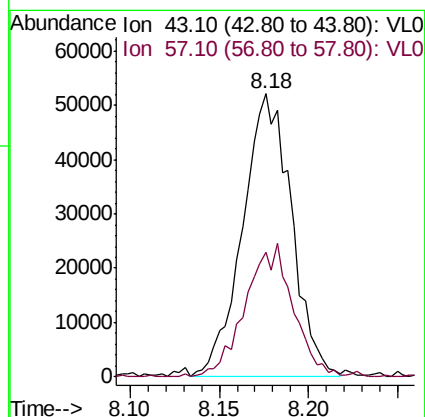
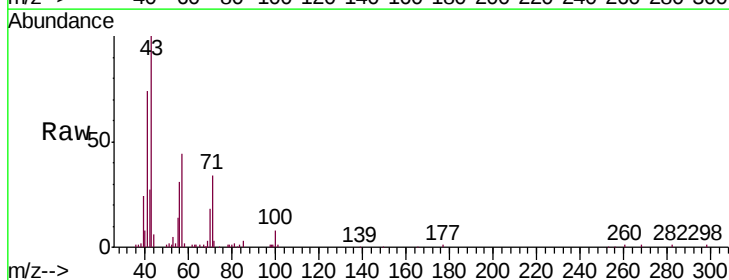
Acq: 17 Sep 2019 6:09

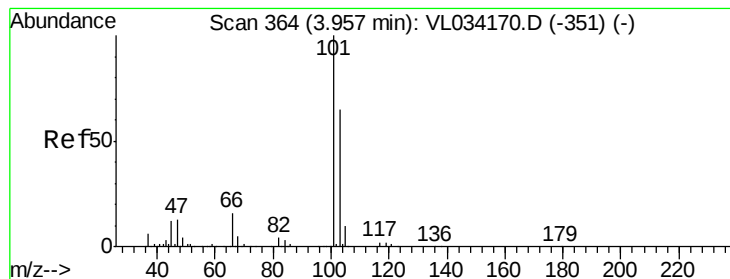
Tgt Ion: 43 Resp: 98951

Ion Ratio Lower Upper

43 100

57 46.6 37.5 56.3





#11

Trichlorofluoromethane

Concen: 0.523 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

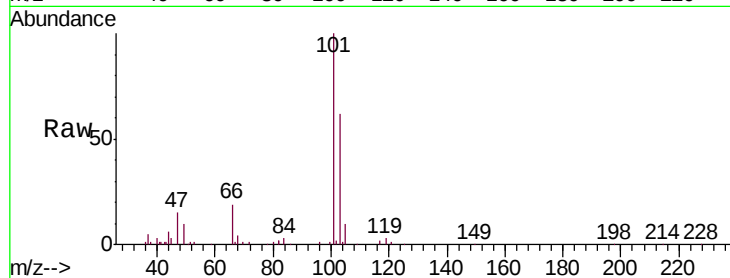
VSTDIC0.5

Tgt Ion:101 Resp: 91183

Ion Ratio Lower Upper

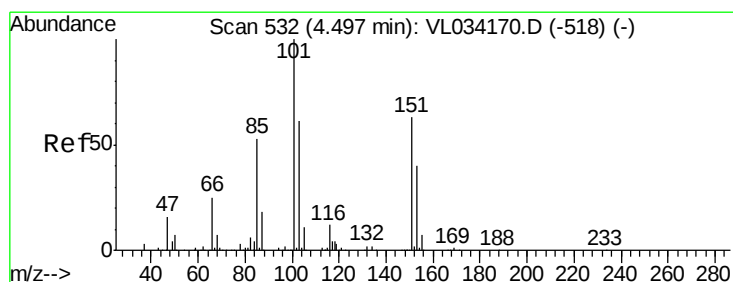
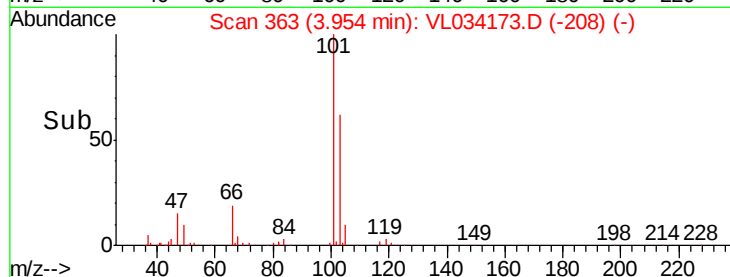
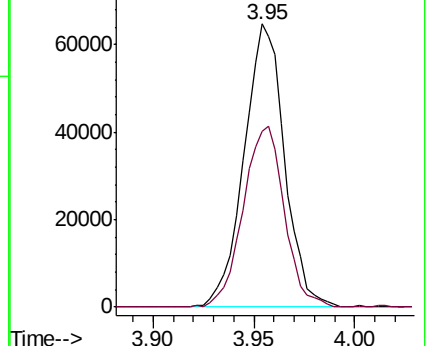
101 100

103 62.0 52.1 78.1



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: 0.259 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034173.D

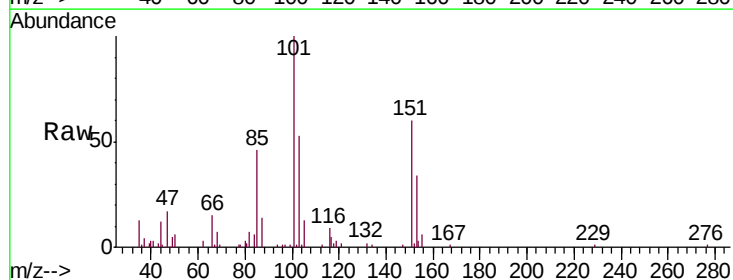
Acq: 17 Sep 2019 6:09

Tgt Ion:101 Resp: 30057

Ion Ratio Lower Upper

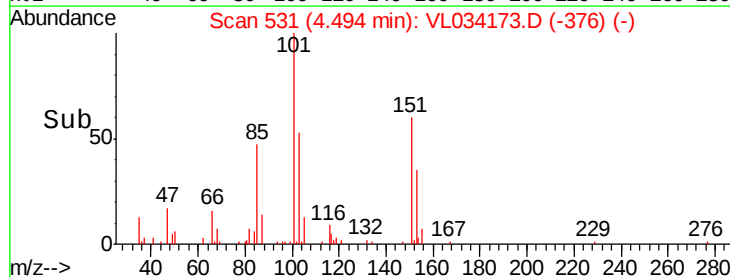
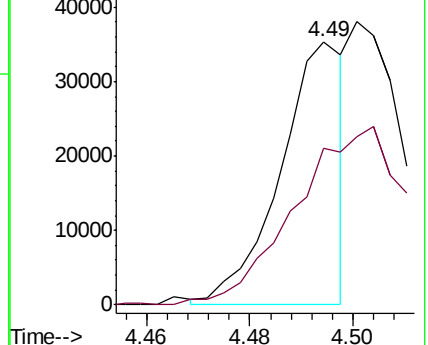
101 100

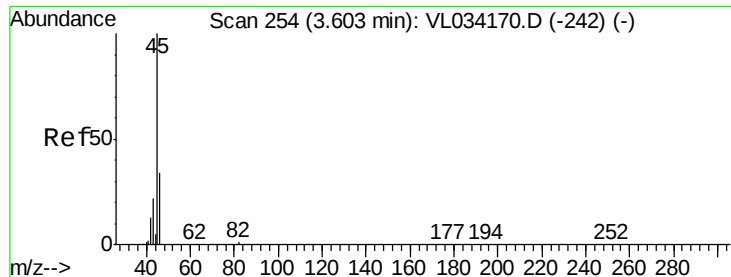
151 0.0 51.8 77.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.562 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

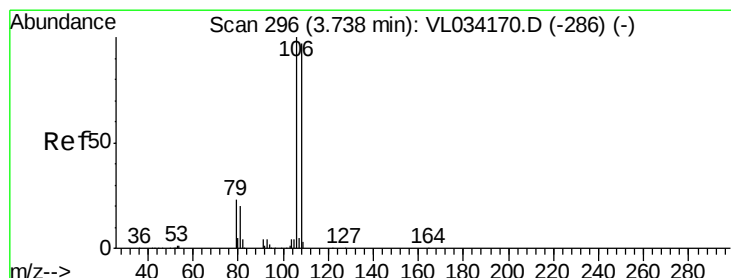
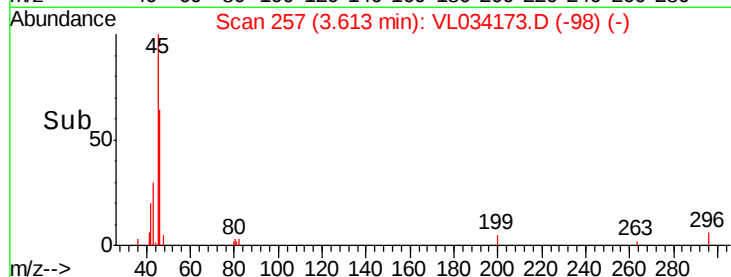
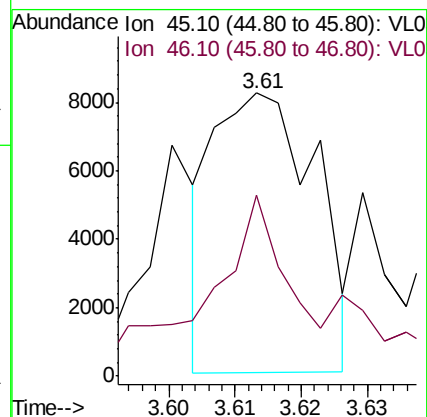
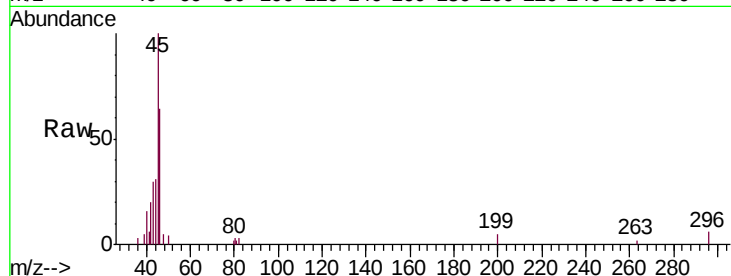
VSTDIC0.5

Tgt Ion: 45 Resp: 8766

Ion Ratio Lower Upper

45 100

46 78.4 15.5 61.9#



#14

Bromoethene

Concen: 0.451 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

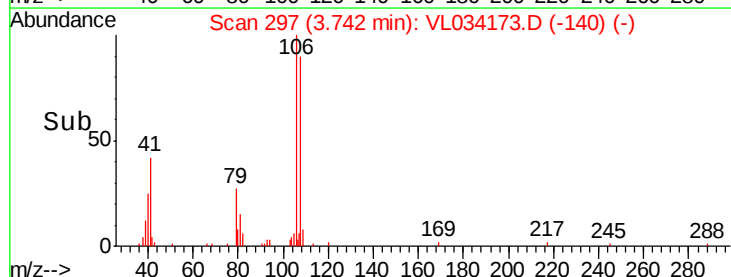
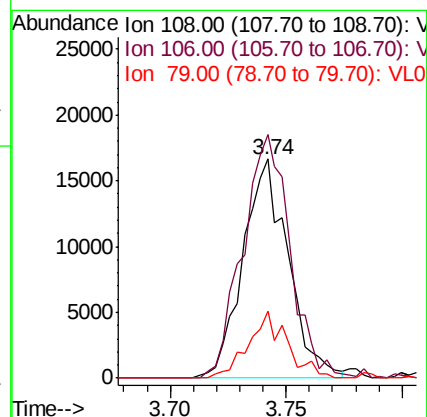
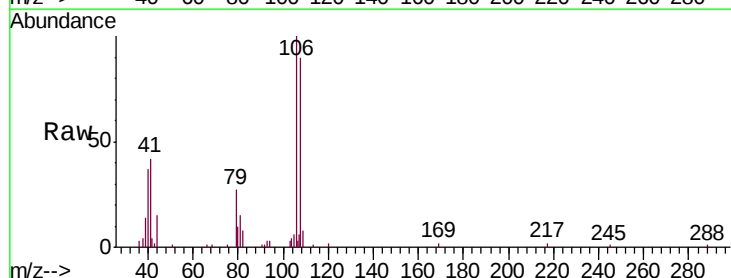
Tgt Ion: 108 Resp: 22572

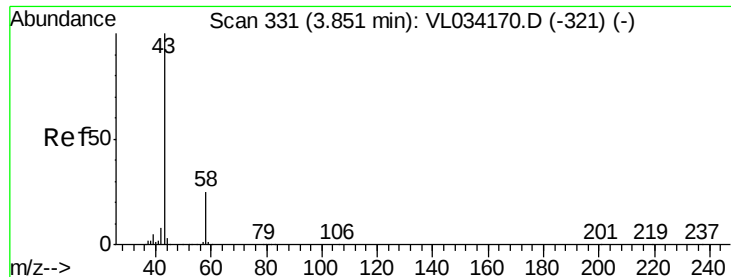
Ion Ratio Lower Upper

108 100

106 118.6 86.2 129.4

79 25.9 18.6 27.8





#15

Acetone

Concen: 0.648 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

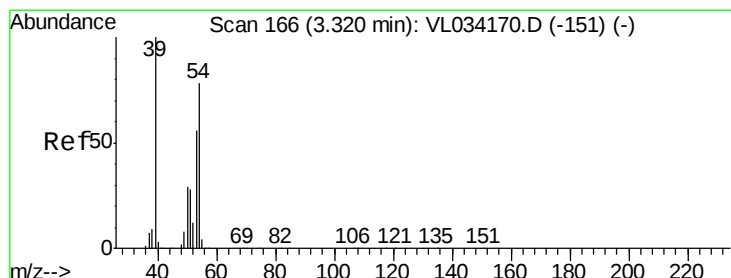
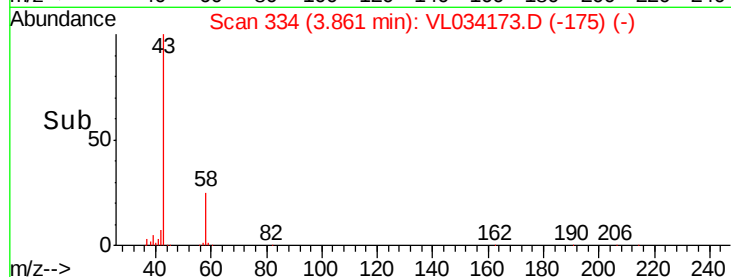
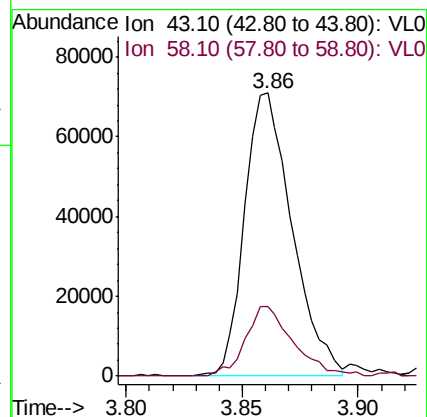
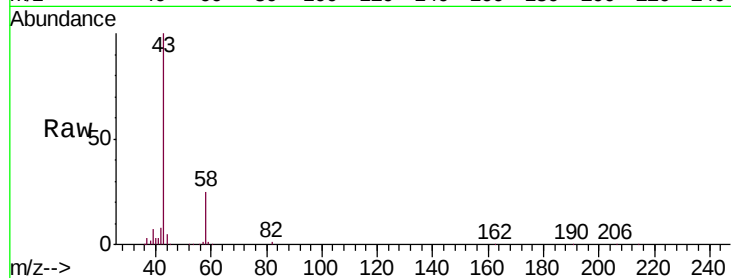
VSTDIC0.5

Tgt Ion: 43 Resp: 101332

Ion Ratio Lower Upper

43 100

58 25.3 20.5 30.7



#16

1,3-Butadiene

Concen: 0.464 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034173.D

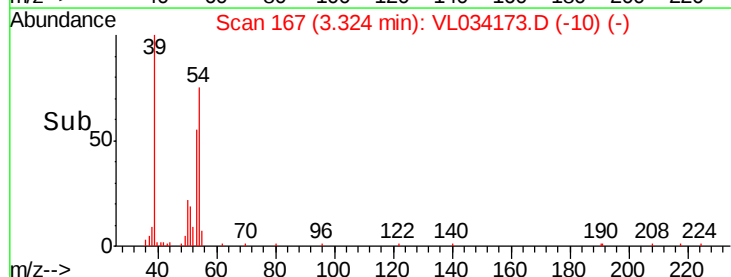
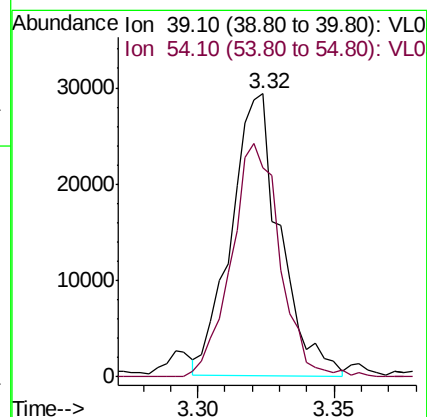
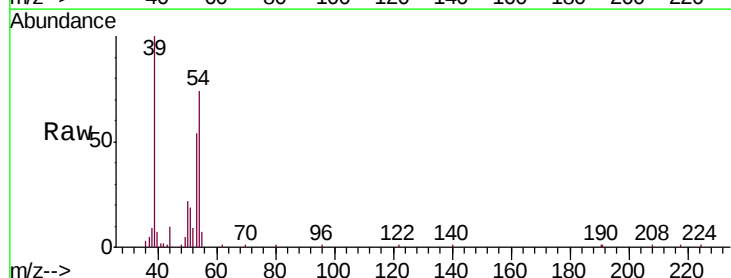
Acq: 17 Sep 2019 6:09

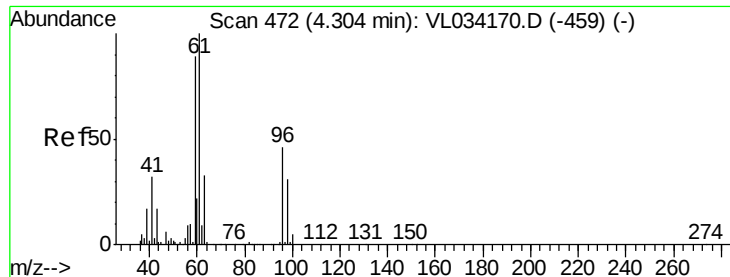
Tgt Ion: 39 Resp: 36585

Ion Ratio Lower Upper

39 100

54 82.3 63.4 95.0





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.02 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

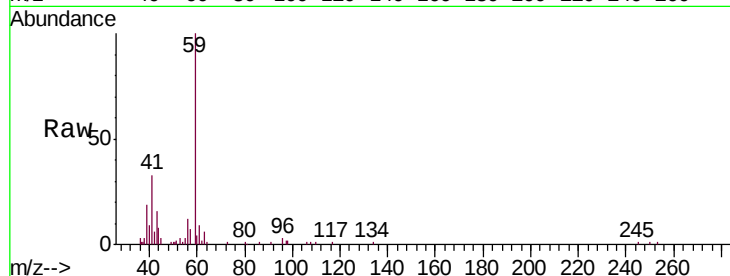
VSTDIC0.5

Tgt Ion: 59 Resp: 62940

Ion Ratio Lower Upper

59 100

57 12.0 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.32

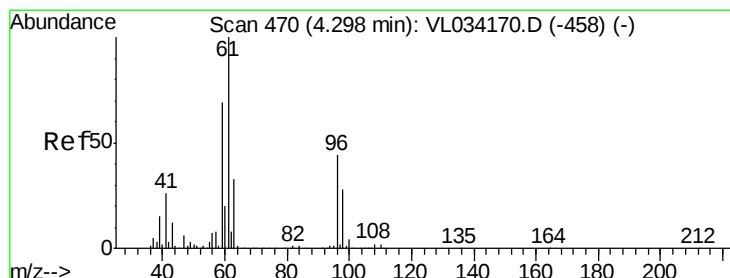
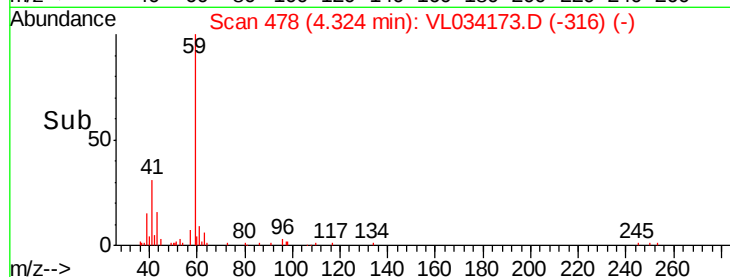
30000

20000

10000

0

Time--> 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 0.487 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

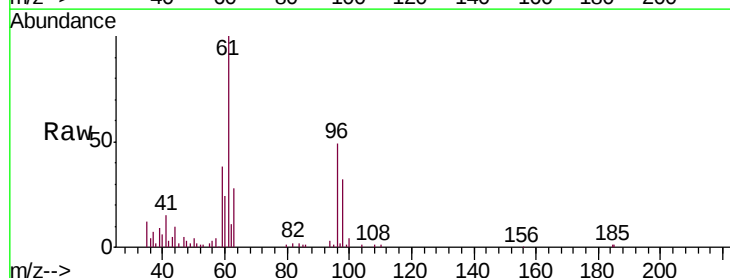
Tgt Ion: 96 Resp: 25647

Ion Ratio Lower Upper

96 100

61 202.5 183.3 274.9

98 65.7 51.4 77.2



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

50000

40000

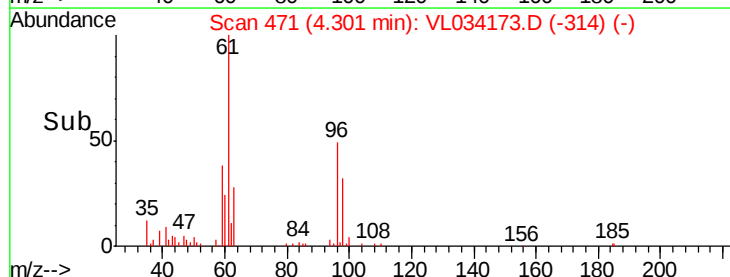
30000

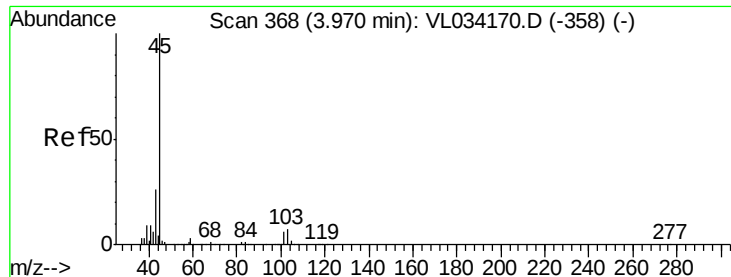
20000

10000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 0.630 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

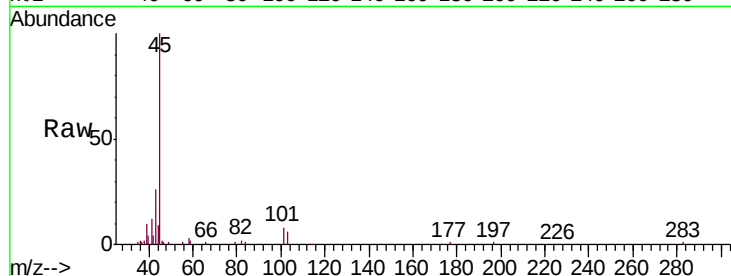
VSTDIC0.5

Tgt Ion: 45 Resp: 65922

Ion Ratio Lower Upper

45 100

58 3.7 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

40000

30000

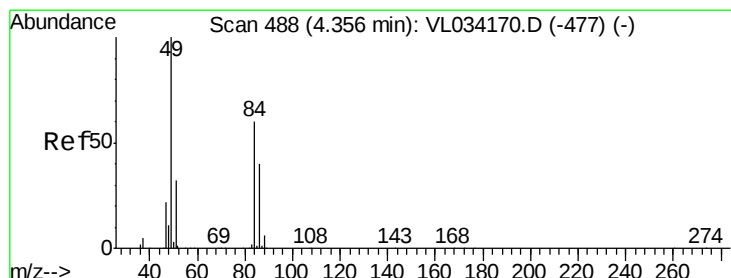
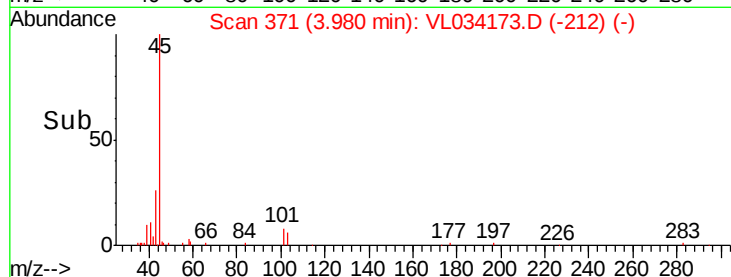
20000

10000

0

Time-->

3.95 4.00 4.05



#20

Methylene Chloride

Concen: 0.564 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion: 84 Resp: 28873

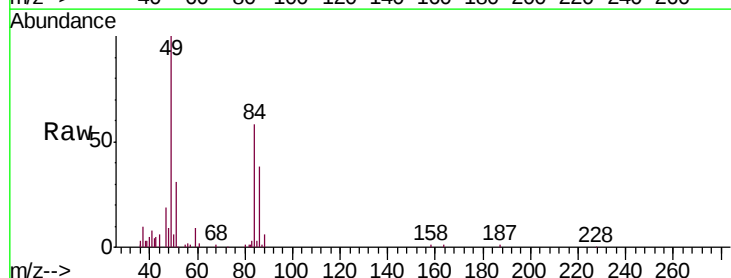
Ion Ratio Lower Upper

84 100

49 167.4 133.8 200.8

51 52.9 43.6 65.4

86 66.4 53.1 79.7



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

50000

40000

30000

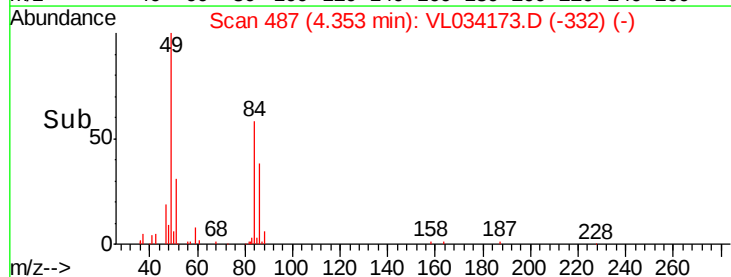
20000

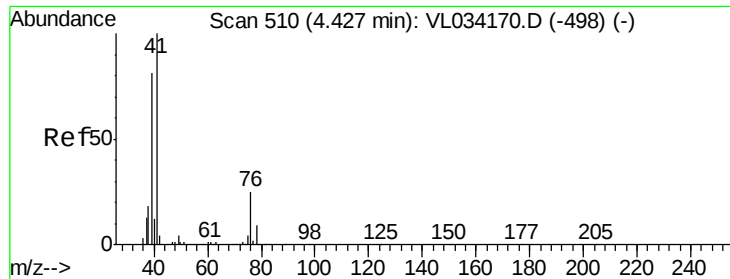
10000

0

Time-->

4.30 4.35 4.40





#21

Allyl Chloride

Concen: 0.470 ppbv

RT: 4.43 min Scan# 510

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

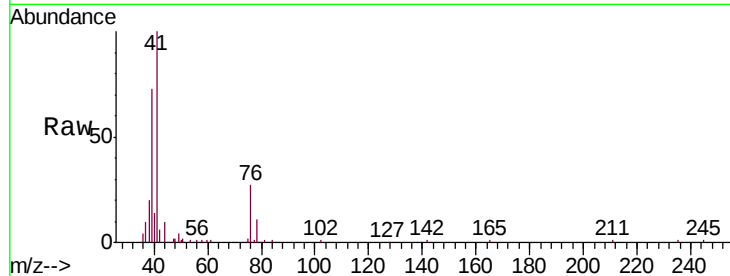
Tgt Ion: 41 Resp: 48204

Ion Ratio Lower Upper

41 100

76 26.2 21.8 32.6

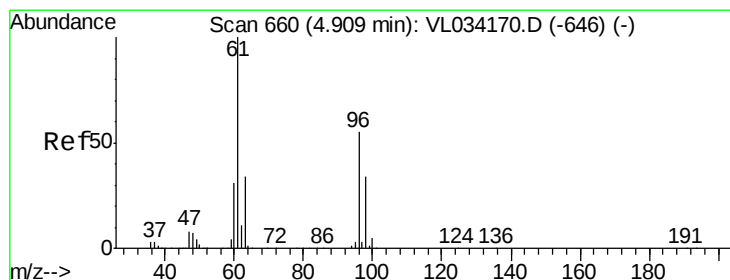
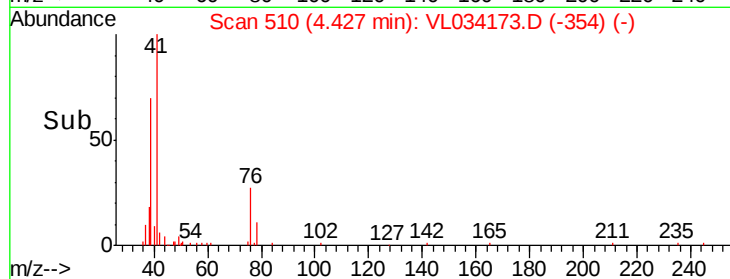
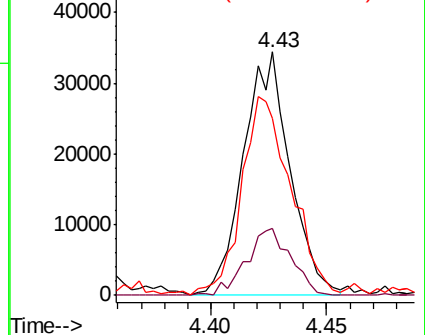
39 89.5 64.8 97.2



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: 0.326 ppbv

RT: 4.91 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

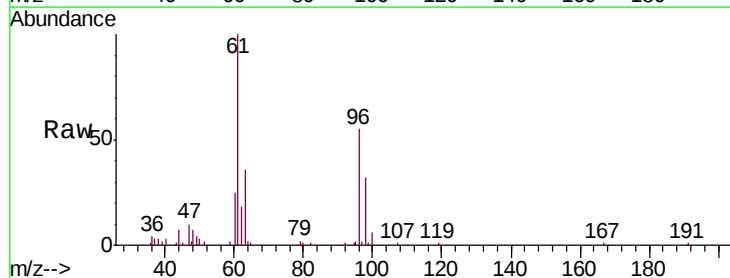
Tgt Ion: 96 Resp: 17243

Ion Ratio Lower Upper

96 100

61 174.8 145.5 218.3

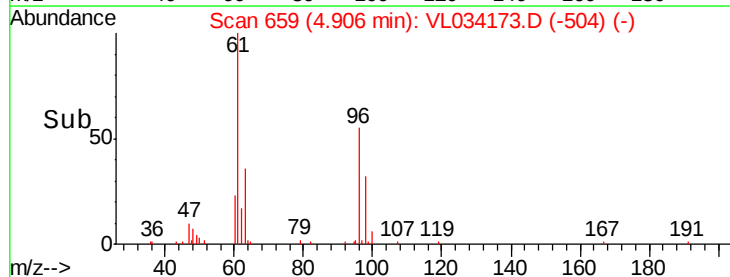
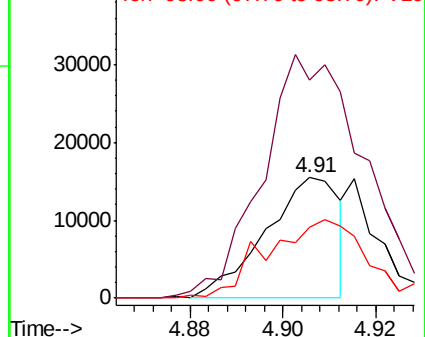
98 56.4 49.9 74.9

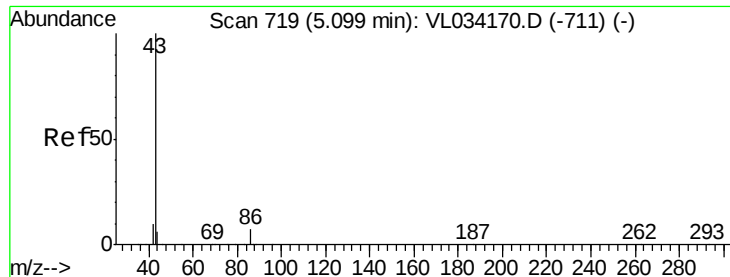


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.480 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 126254

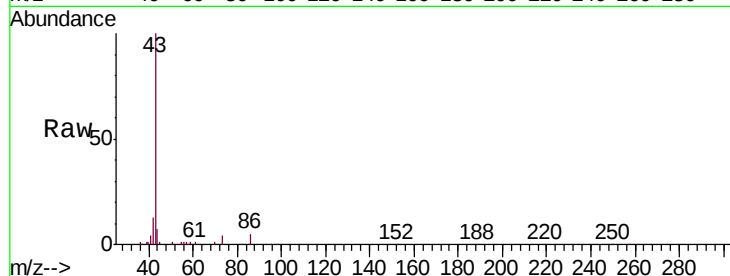
Ion Ratio Lower Upper

43 100

86 5.3 5.1 7.7

42 13.1 8.6 12.8#

44 5.9 4.7 7.1

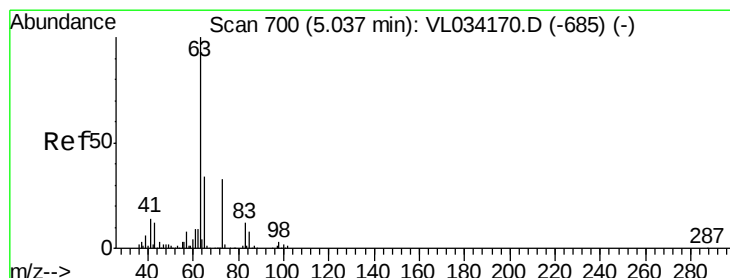
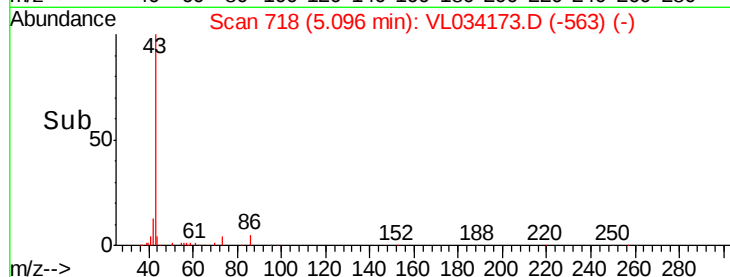
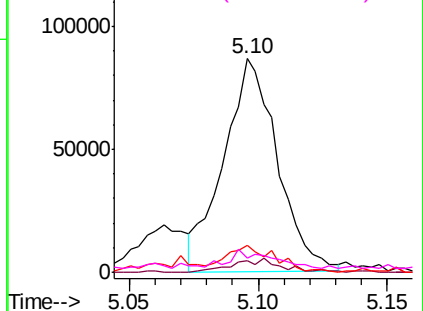


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.249 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

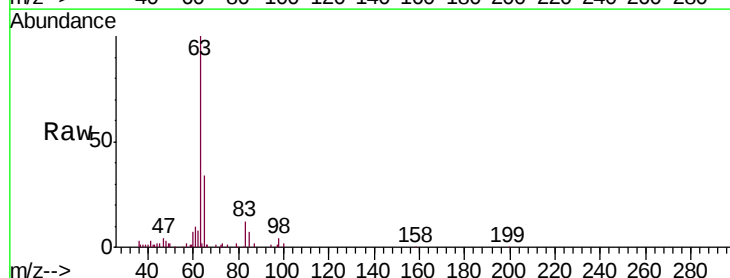
Tgt Ion: 63 Resp: 43623

Ion Ratio Lower Upper

63 100

98 4.1 1.8 5.3

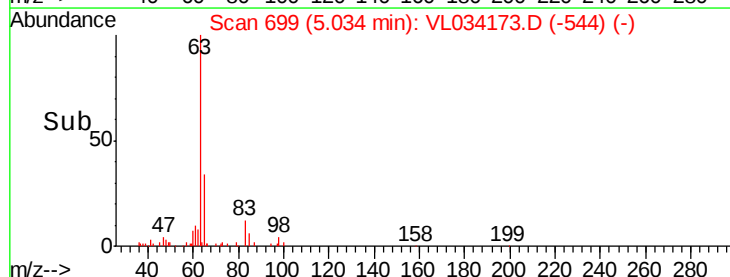
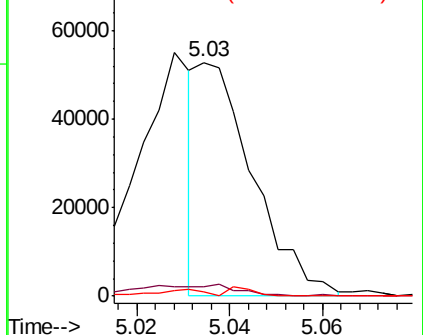
100 1.7 1.0 3.0

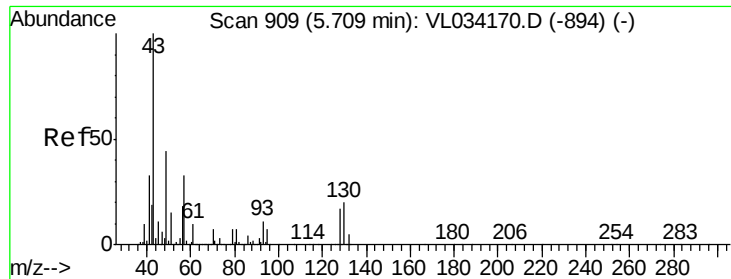


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

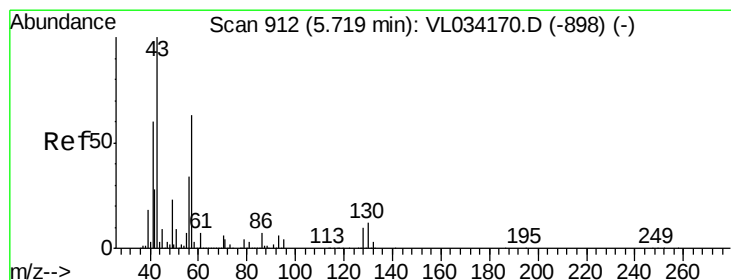
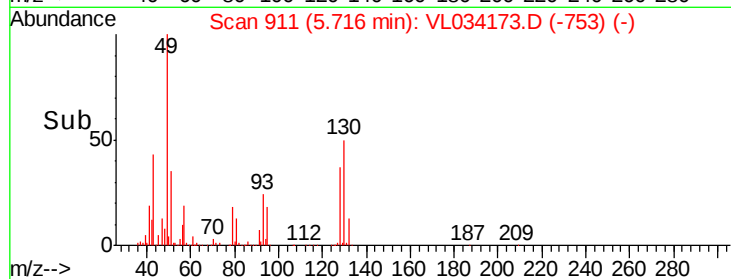
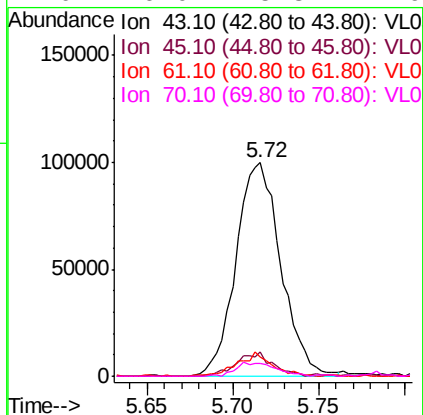
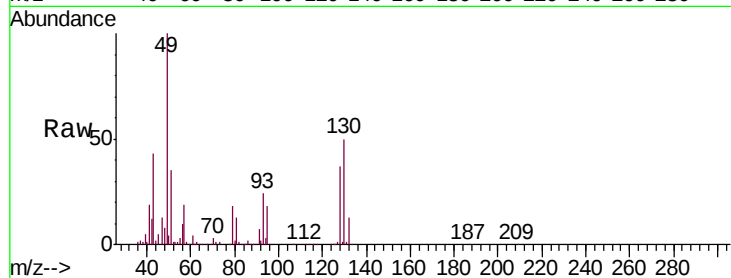




#25  
Ethyl Acetate  
Concen: 0.529 ppbv  
RT: 5.72 min Scan# 911  
Delta R.T. 0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

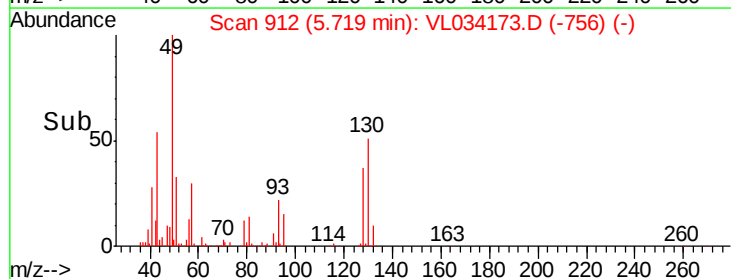
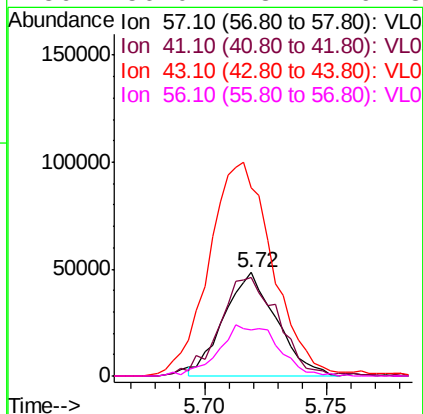
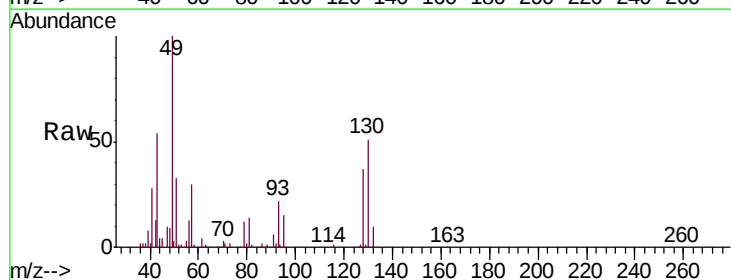
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

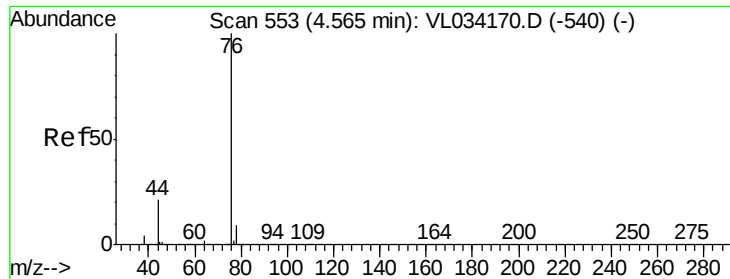
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 180788 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.0  | 8.4   | 12.6   |
| 61       | 9.1   | 7.2   | 10.8   |
| 70       | 6.0   | 5.3   | 7.9    |



#26  
Hexane  
Concen: 0.474 ppbv  
RT: 5.72 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 71982 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 107.5 | 78.5  | 117.7 |
| 43       | 253.4 | 189.5 | 284.3 |
| 56       | 56.0  | 43.2  | 64.8  |

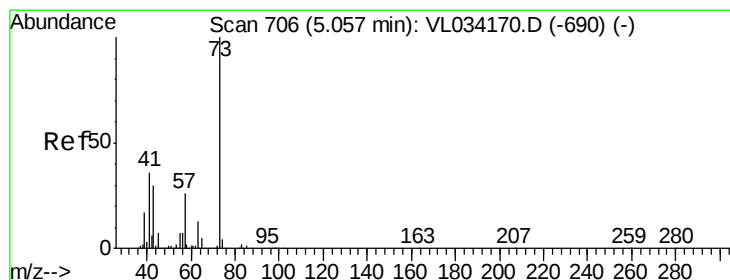
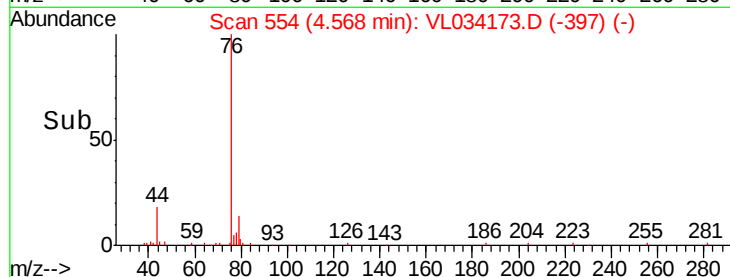
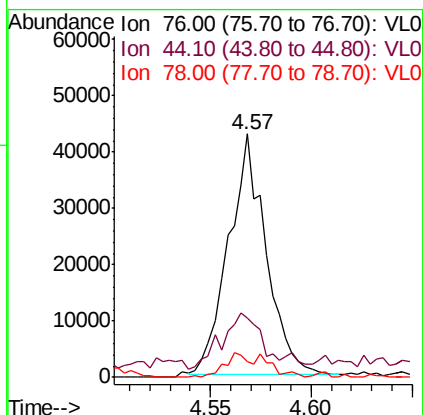
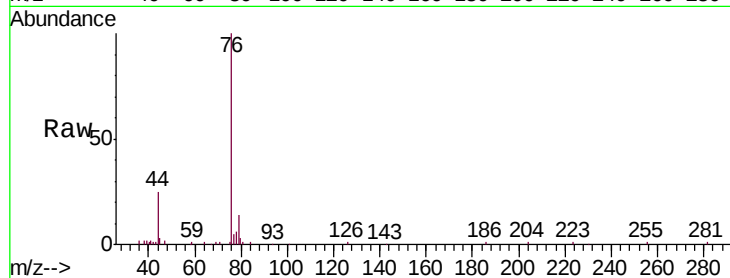




#27  
Carbon Disulfide  
Concen: 0.409 ppbv  
RT: 4.57 min Scan# 554  
Delta R.T. 0.00 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

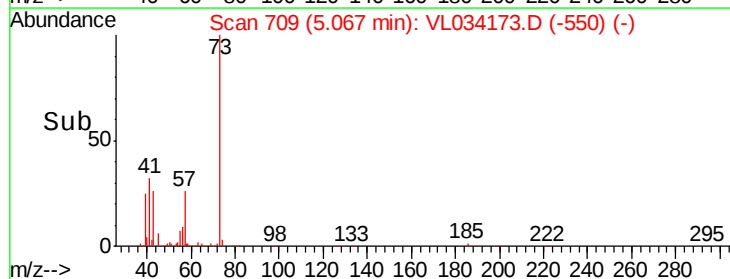
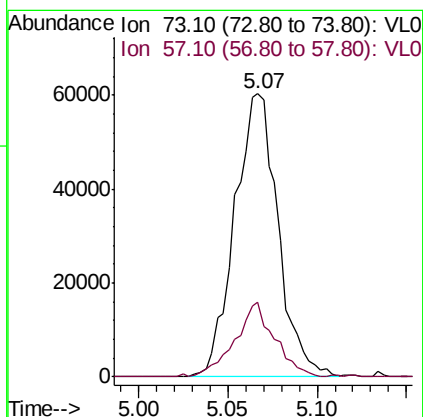
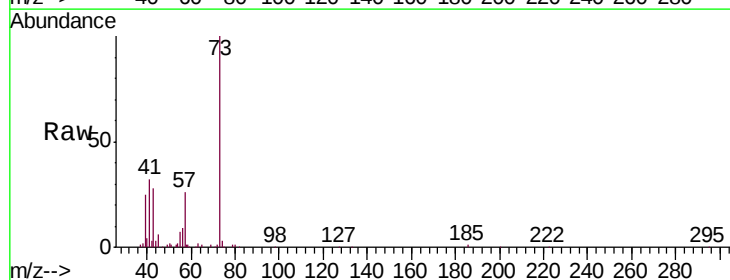
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

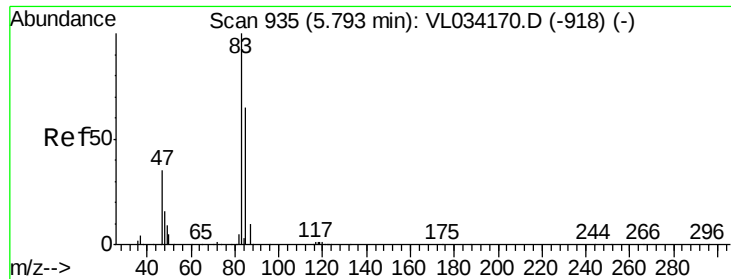
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 29.8  | 17.6  | 26.4# |
| 78      | 11.7  | 7.6   | 11.4# |



#28  
Methyl tert-Butyl Ether  
Concen: 0.465 ppbv  
RT: 5.07 min Scan# 709  
Delta R.T. 0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 24.5  | 20.2  | 30.2  |





#29

Chloroform

Concen: 0.508 ppbv

RT: 5.79 min Scan# 933

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

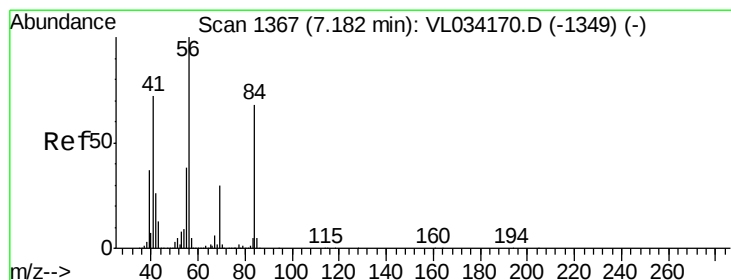
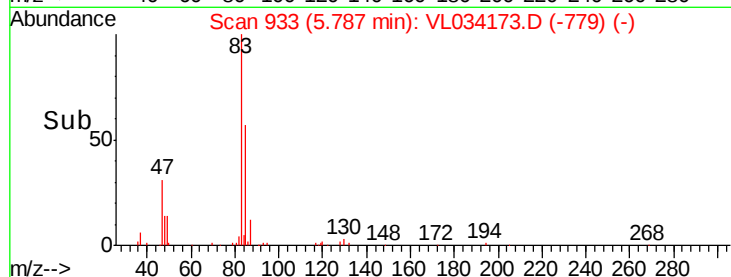
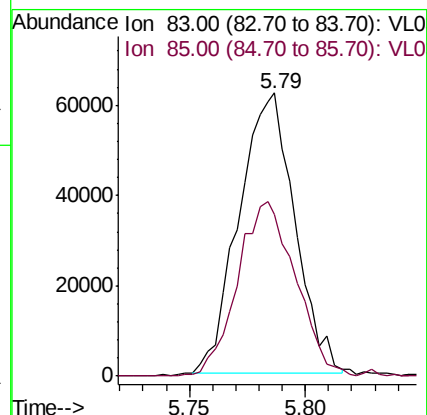
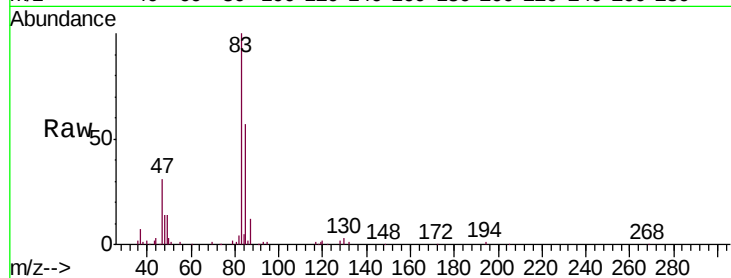
VSTDIC0.5

Tgt Ion: 83 Resp: 104065

Ion Ratio Lower Upper

83 100

85 57.0 52.3 78.5



#30

Cyclohexane

Concen: 0.245 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

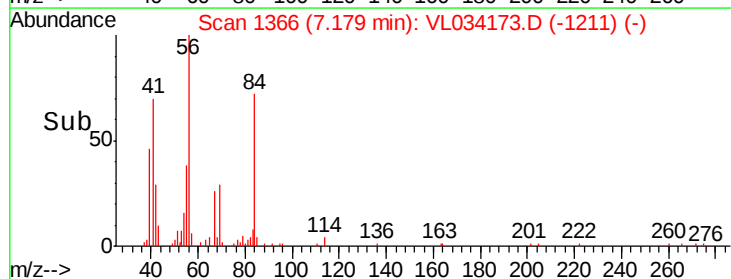
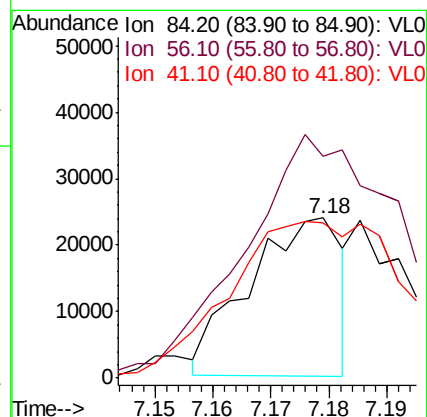
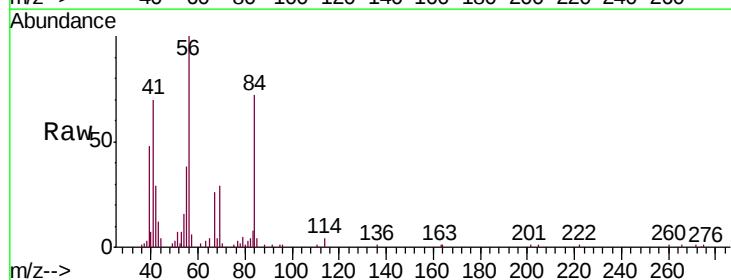
Tgt Ion: 84 Resp: 26596

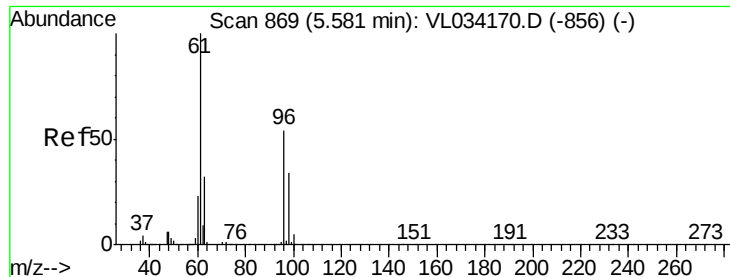
Ion Ratio Lower Upper

84 100

56 240.7 126.2 189.2#

41 192.6 85.8 128.8#





#31

cis-1,2-Dichloroethene

Concen: 0.493 ppbv

RT: 5.58 min Scan# 869

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

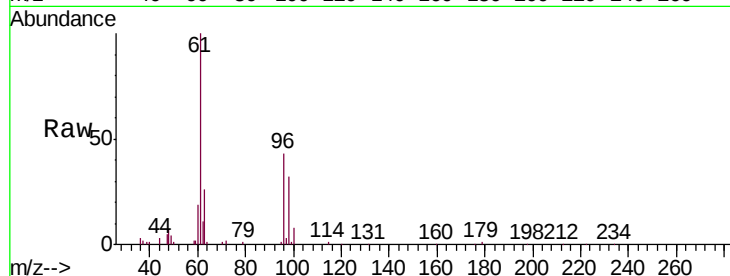
Tgt Ion: 61 Resp: 71726

Ion Ratio Lower Upper

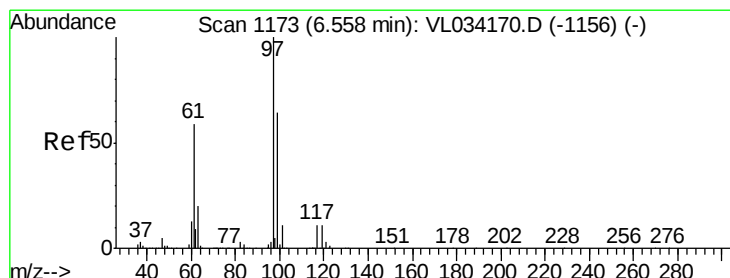
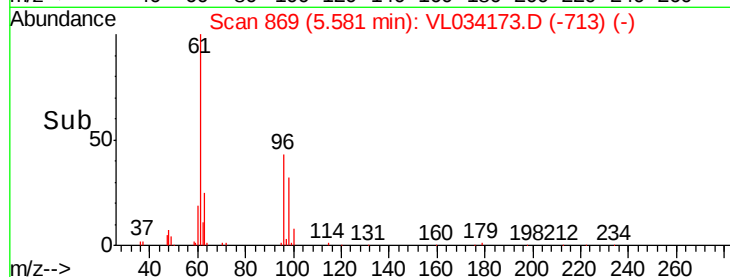
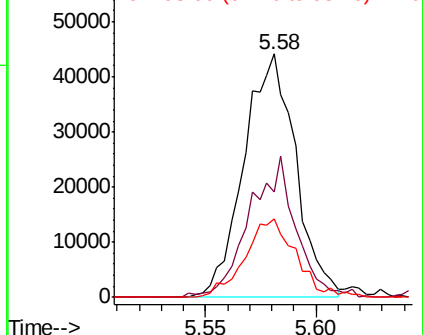
61 100

96 41.8 43.0 64.4#

98 32.5 27.2 40.8



Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.471 ppbv

RT: 6.55 min Scan# 1170

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

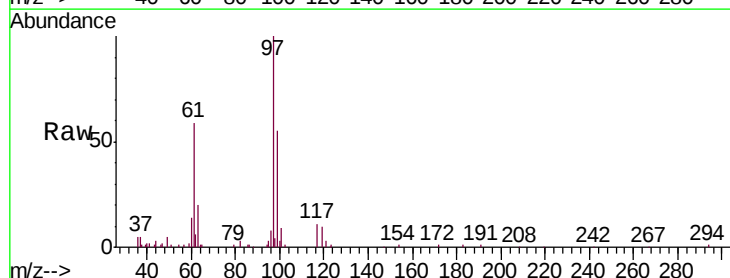
Tgt Ion: 97 Resp: 91311

Ion Ratio Lower Upper

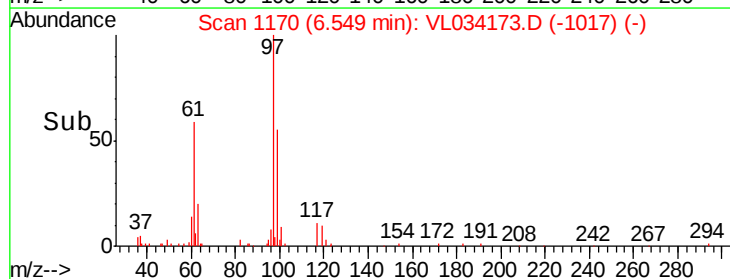
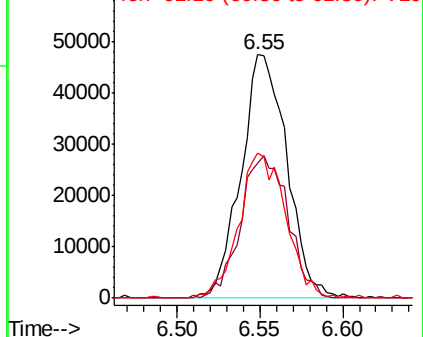
97 100

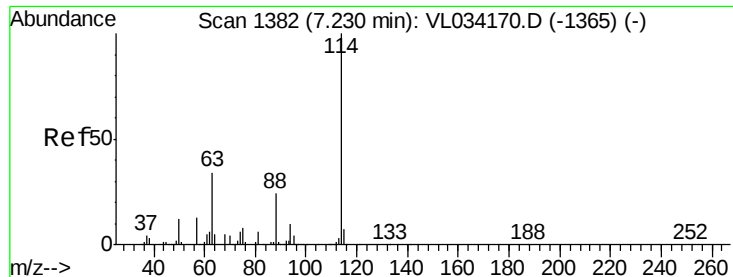
99 60.6 51.4 77.2

61 61.2 48.4 72.6



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0

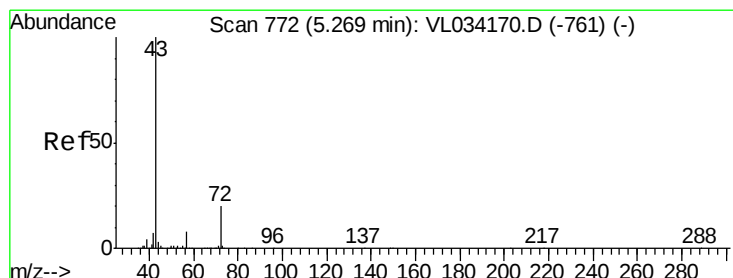
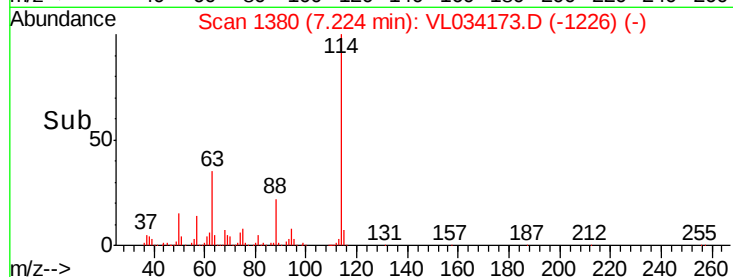
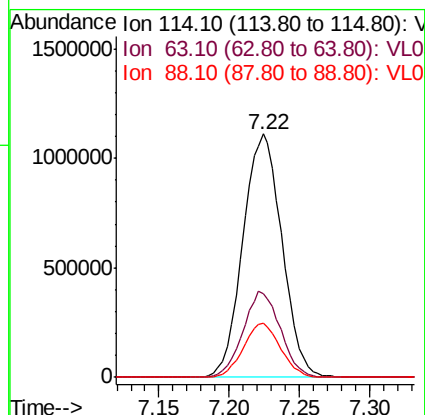
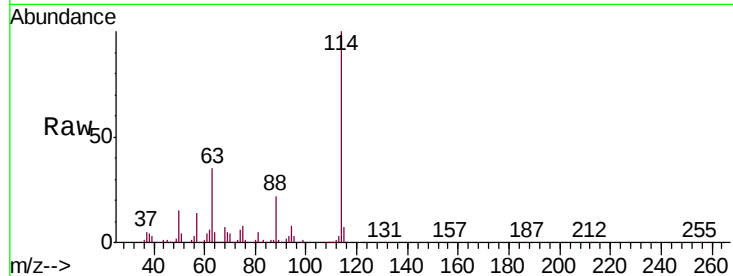




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.22 min Scan# 1380  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

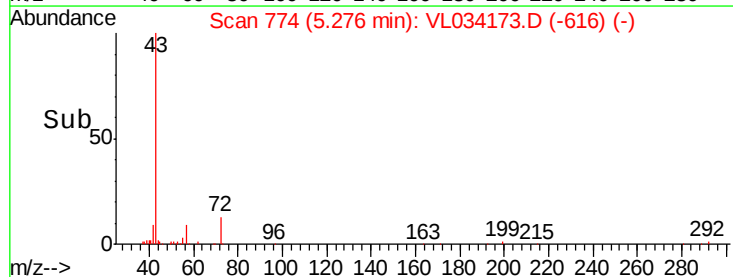
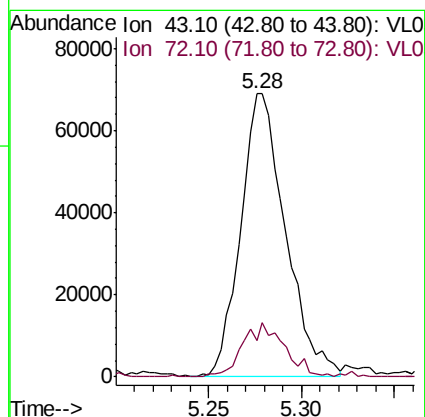
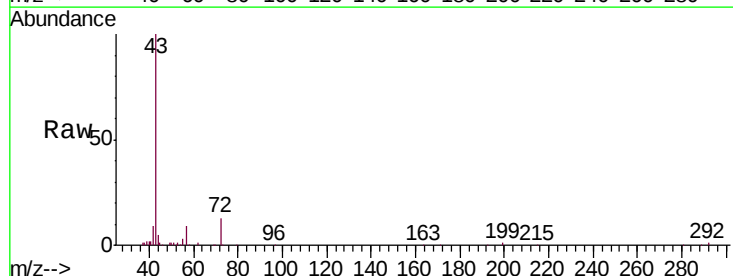
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

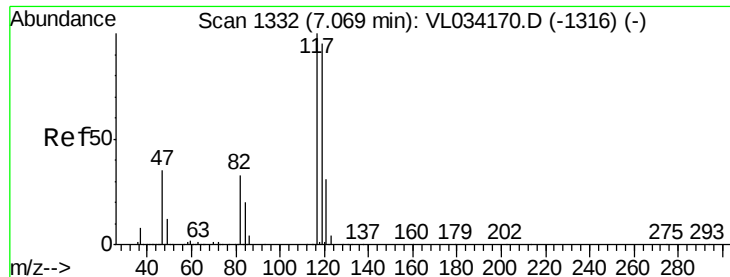
Tgt Ion: 114 Resp: 2156251  
 Ion Ratio Lower Upper  
 114 100  
 63 33.9 27.8 41.6  
 88 21.3 17.1 25.7



#34  
 2-Butanone  
 Concen: 0.552 ppbv  
 RT: 5.28 min Scan# 774  
 Delta R.T. 0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 43 Resp: 116324  
 Ion Ratio Lower Upper  
 43 100  
 72 18.4 15.0 22.6





#35

Carbon Tetrachloride

Concen: 0.509 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

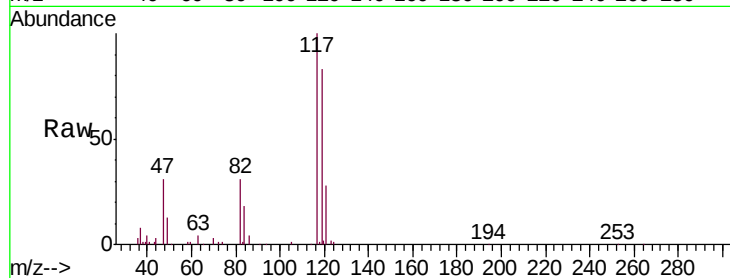
Tgt Ion: 117 Resp: 86649

Ion Ratio Lower Upper

117 100

119 81.6 75.8 113.6

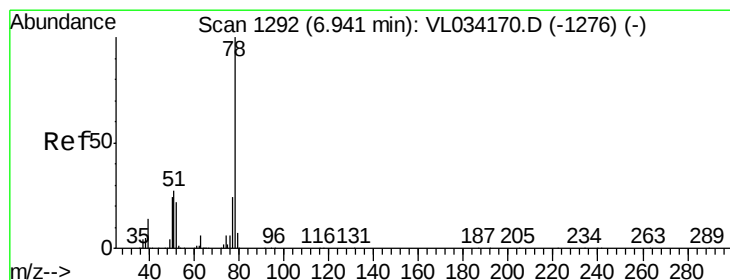
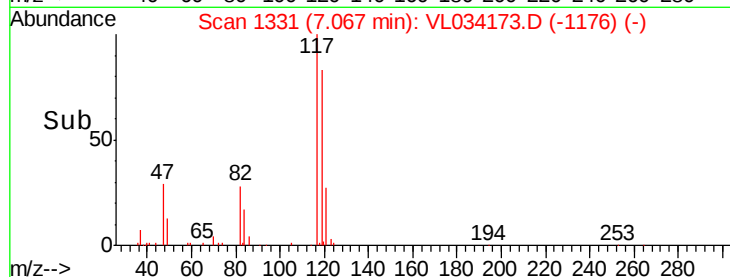
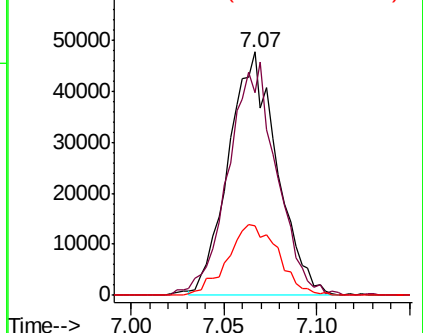
121 28.4 25.0 37.6



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: 0.521 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

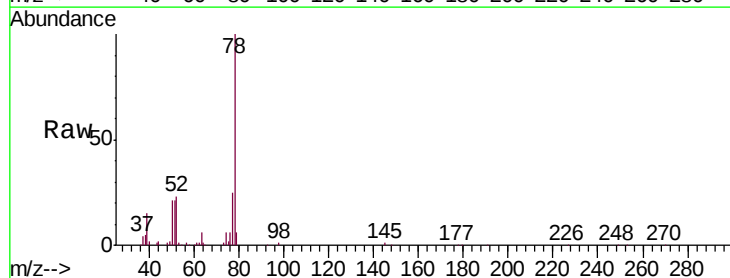
Tgt Ion: 78 Resp: 128298

Ion Ratio Lower Upper

78 100

77 25.3 19.0 28.4

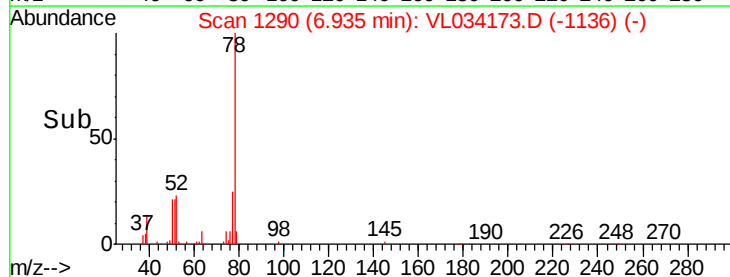
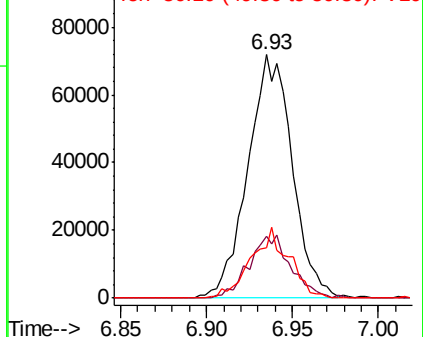
50 20.6 18.9 28.3

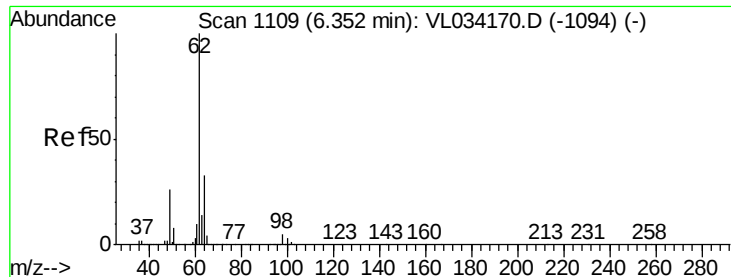


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

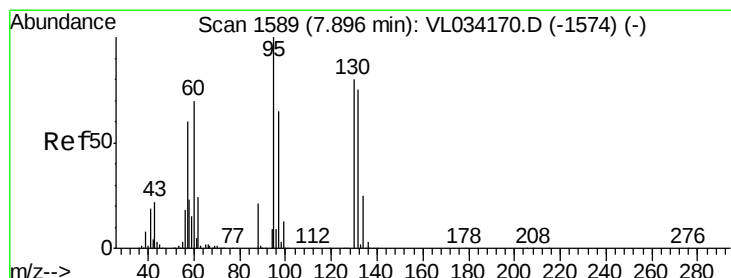
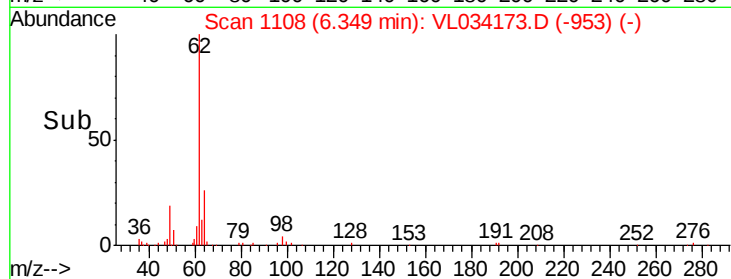
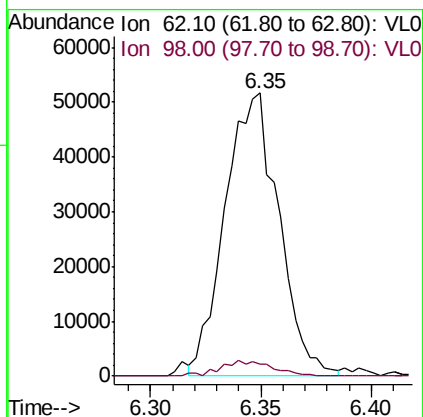
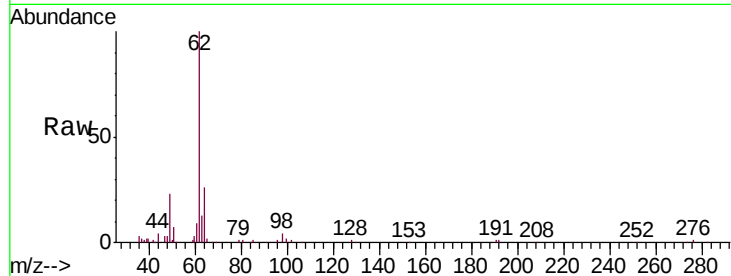




#37  
 1,2-Dichloroethane  
 Concen: 0.559 ppbv  
 RT: 6.35 min Scan# 1108  
 Delta R.T. -0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

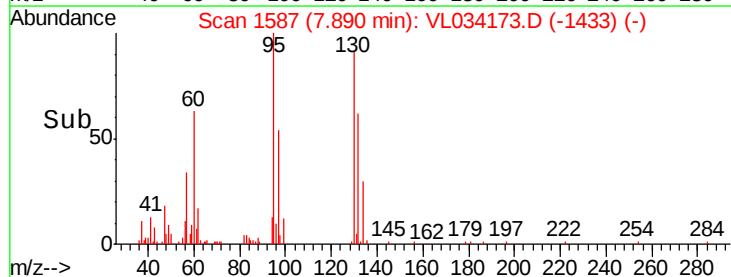
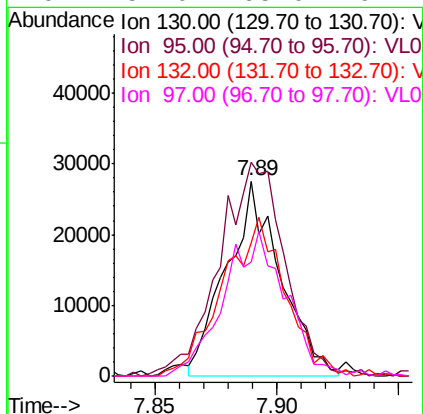
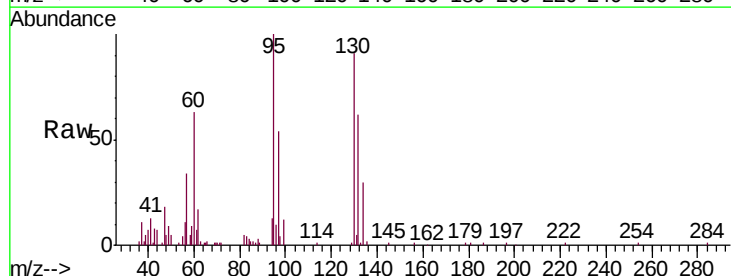
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

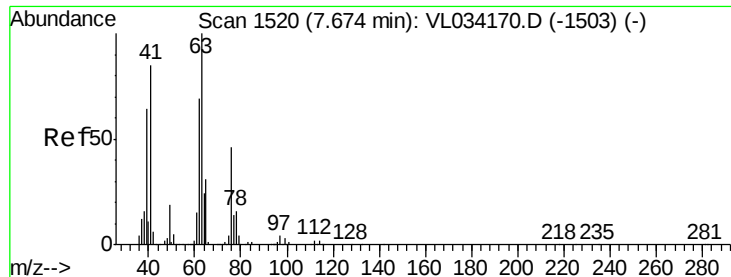
Tgt Ion: 62 Resp: 87184  
 Ion Ratio Lower Upper  
 62 100  
 98 5.4 3.8 5.8



#38  
 Trichloroethene  
 Concen: 0.458 ppbv  
 RT: 7.89 min Scan# 1587  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 130 Resp: 42302  
 Ion Ratio Lower Upper  
 130 100  
 95 110.8 99.8 149.6  
 132 69.6 75.2 112.8#  
 97 57.0 65.0 97.4#

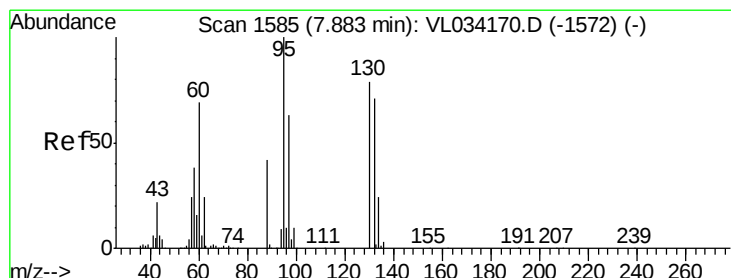
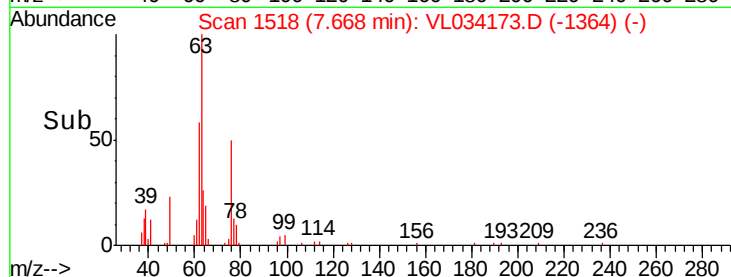
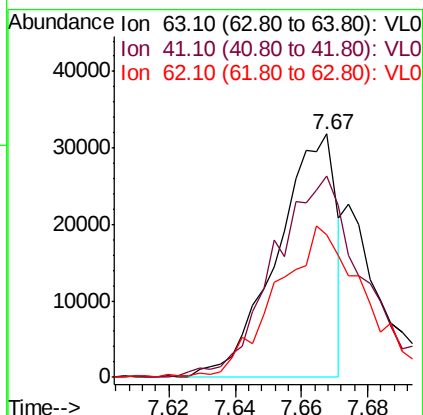
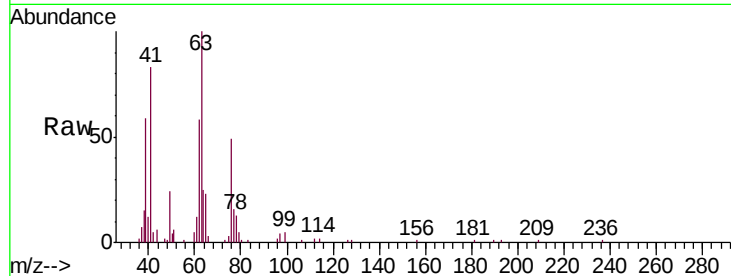




#39  
 1,2-Dichloropropane  
 Concen: 0.372 ppbv  
 RT: 7.67 min Scan# 1518  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

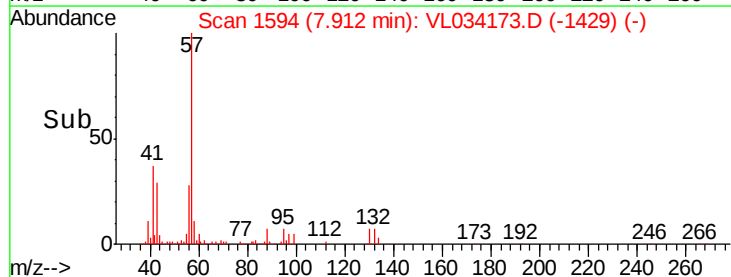
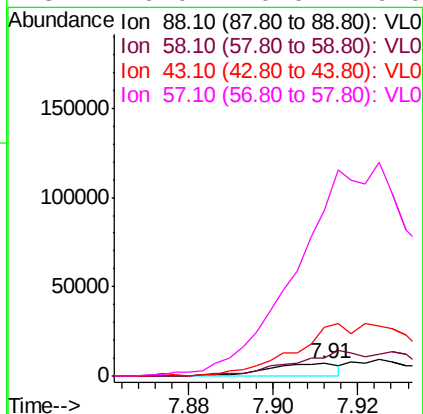
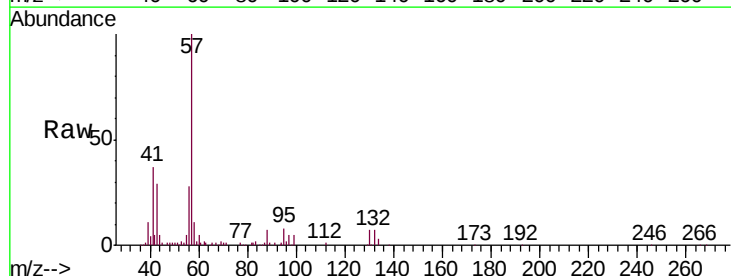
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

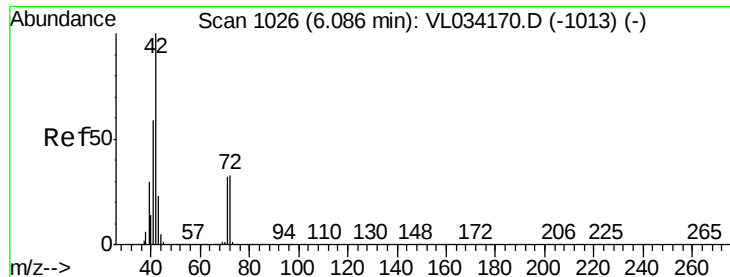
Tgt Ion: 63 Resp: 39594  
 Ion Ratio Lower Upper  
 63 100  
 41 80.5 68.4 102.6  
 62 57.8 55.4 83.2



#40  
 1,4-Dioxane  
 Concen: 0.208 ppbv  
 RT: 7.91 min Scan# 1594  
 Delta R.T. 0.03 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 88 Resp: 8000  
 Ion Ratio Lower Upper  
 88 100  
 58 429.8 131.8 197.6#  
 43 0.0 0.0 0.0  
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.191 ppbv

RT: 6.10 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

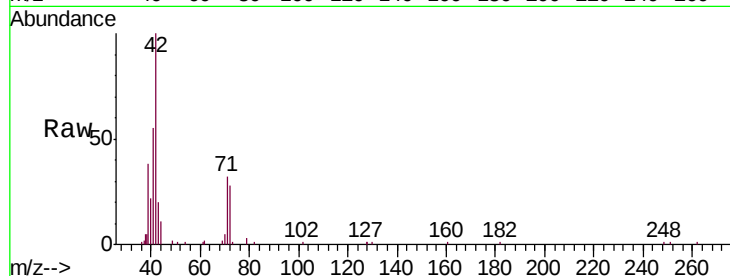
Tgt Ion: 42 Resp: 23973

Ion Ratio Lower Upper

42 100

72 0.0 26.6 40.0#

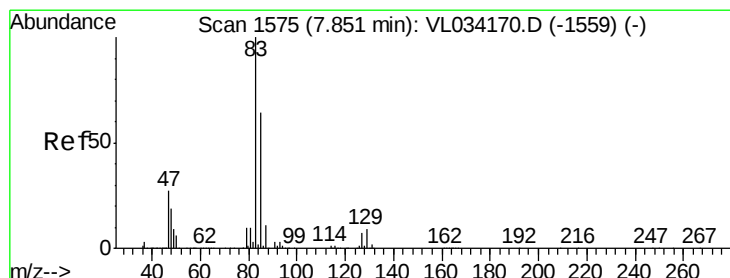
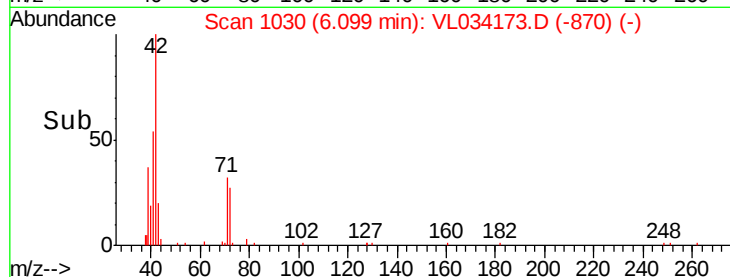
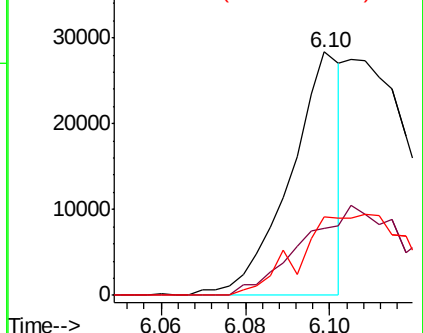
71 0.0 25.1 37.7#



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: 0.316 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

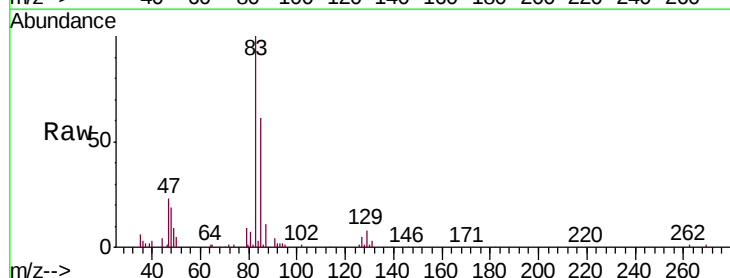
Tgt Ion: 83 Resp: 63036

Ion Ratio Lower Upper

83 100

85 61.6 51.4 77.0

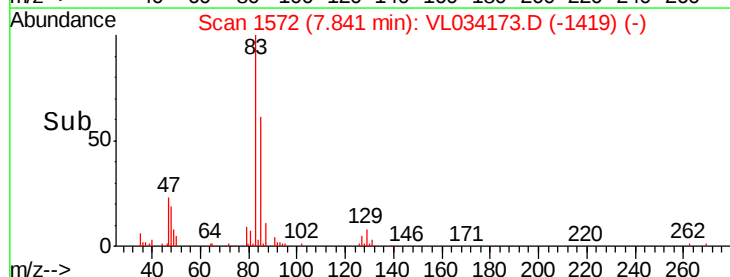
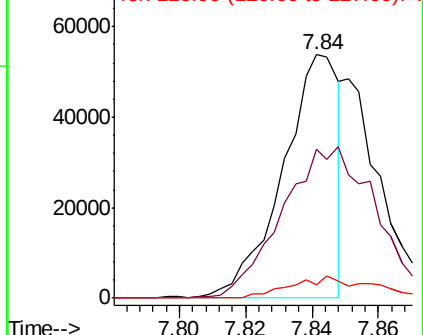
127 5.5 5.5 8.3#

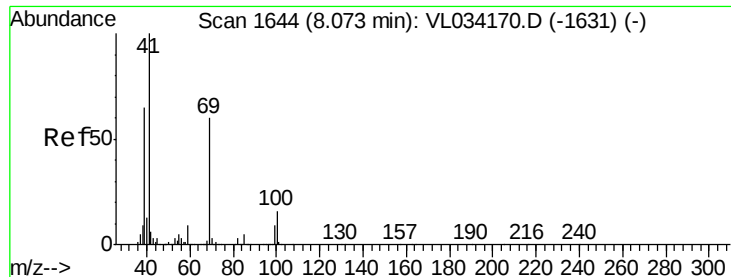


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

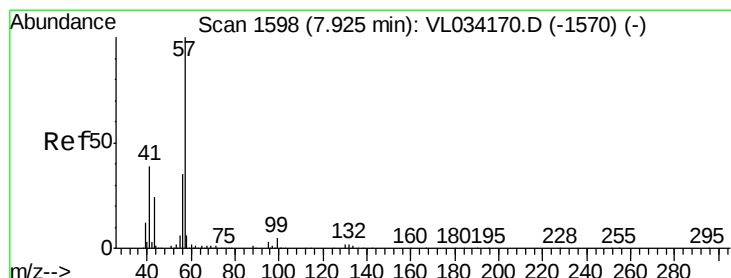
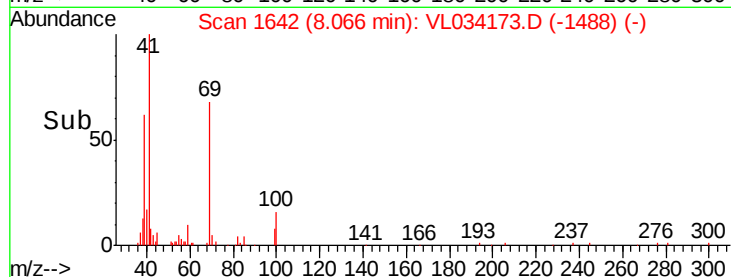
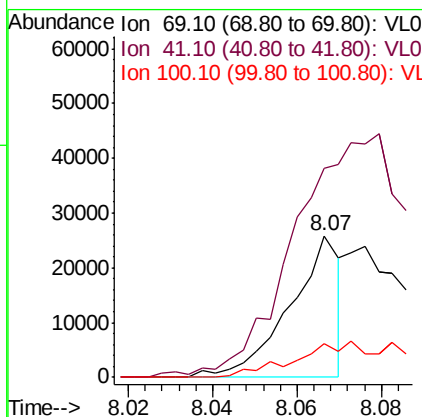
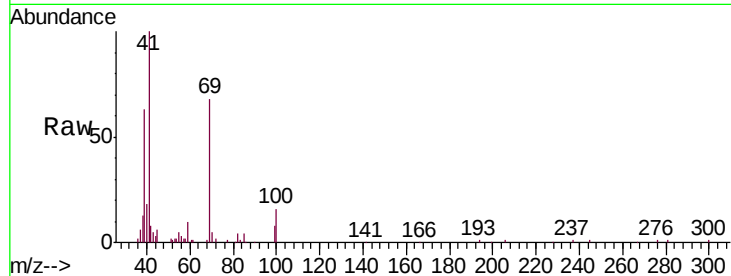




#43  
Methyl Methacrylate  
Concen: 0.211 ppbv  
RT: 8.07 min Scan# 1642  
Delta R.T. -0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

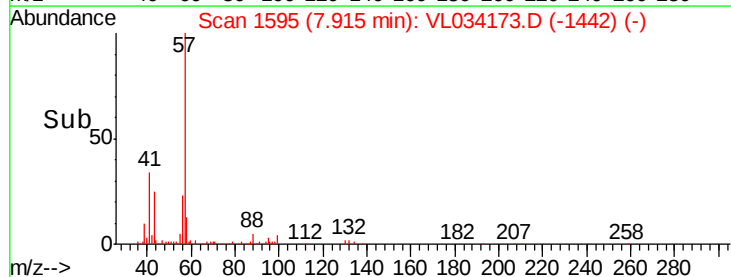
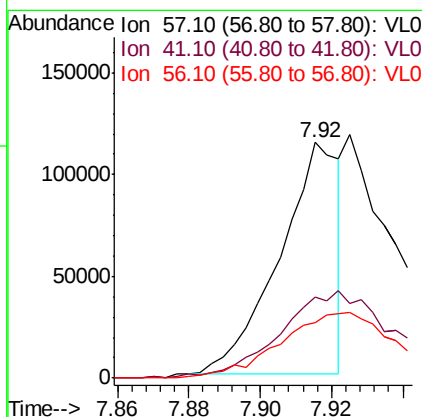
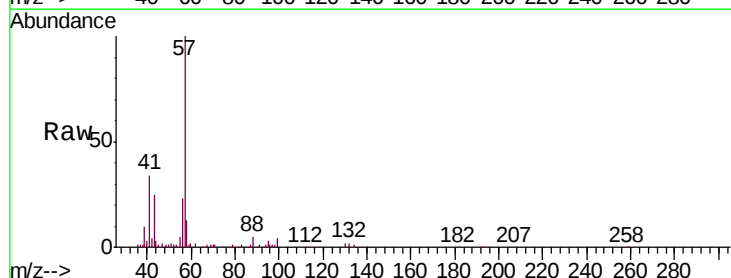
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

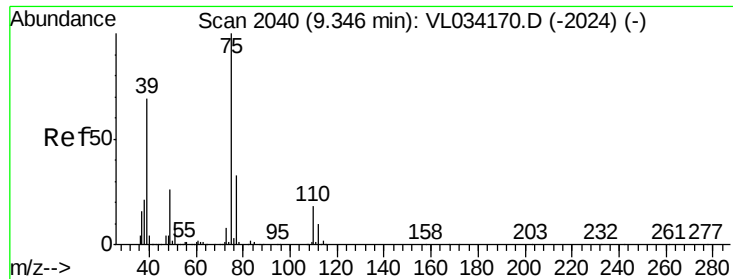
Tgt Ion: 69 Resp: 21452  
Ion Ratio Lower Upper  
69 100  
41 0.0 140.4 210.6#  
100 0.0 21.9 32.9#



#44  
2,2,4-Trimethylpentane  
Concen: 0.286 ppbv  
RT: 7.92 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

Tgt Ion: 57 Resp: 131441  
Ion Ratio Lower Upper  
57 100  
41 0.0 29.8 44.6#  
56 0.0 25.9 38.9#





#45

t-1,3-Dichloropropene

Concen: 0.123 ppbv

RT: 9.35 min Scan# 2042

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

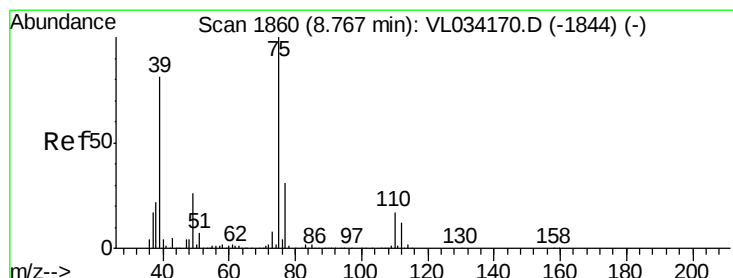
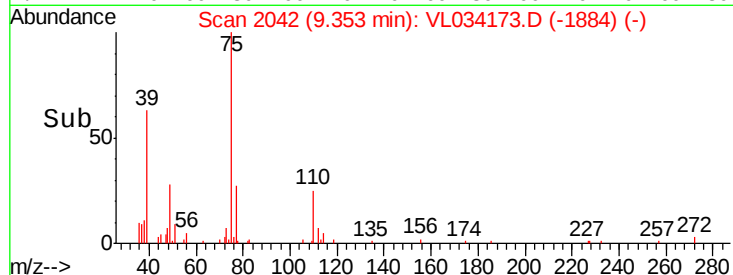
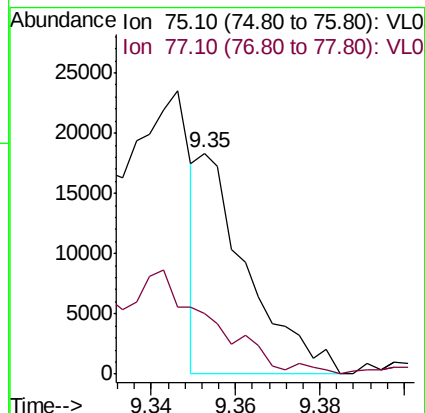
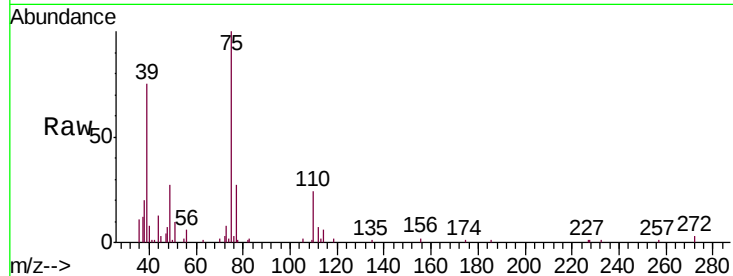
VSTDIC0.5

Tgt Ion: 75 Resp: 14750

Ion Ratio Lower Upper

75 100

77 27.2 26.2 39.2



#46

cis-1,3-Dichloropropene

Concen: 0.422 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

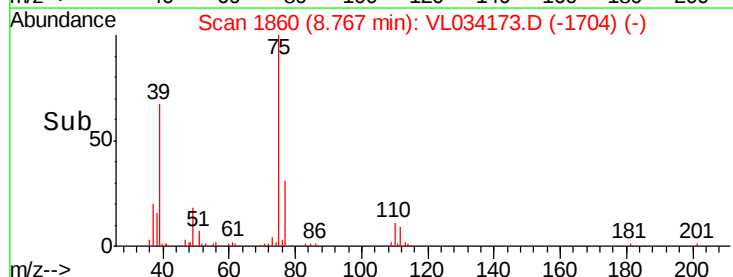
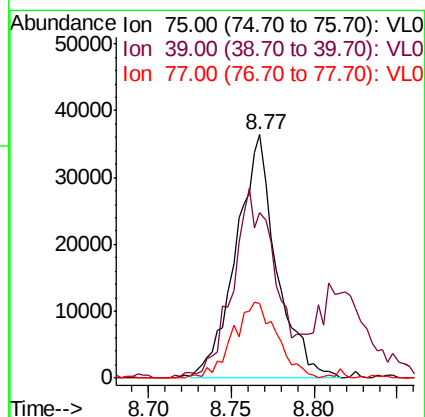
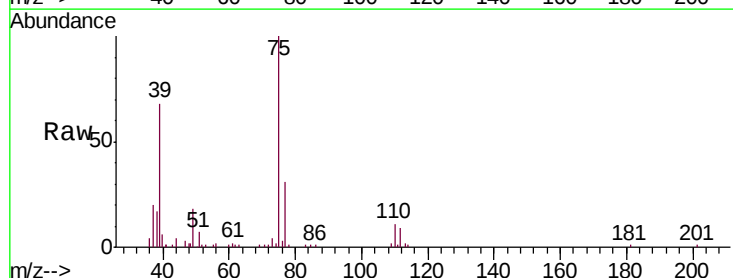
Tgt Ion: 75 Resp: 61636

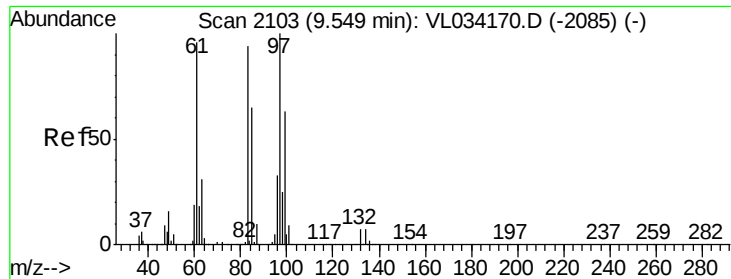
Ion Ratio Lower Upper

75 100

39 65.7 65.0 97.4

77 29.4 24.5 36.7

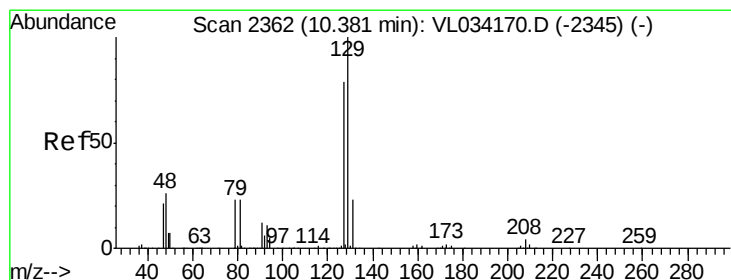
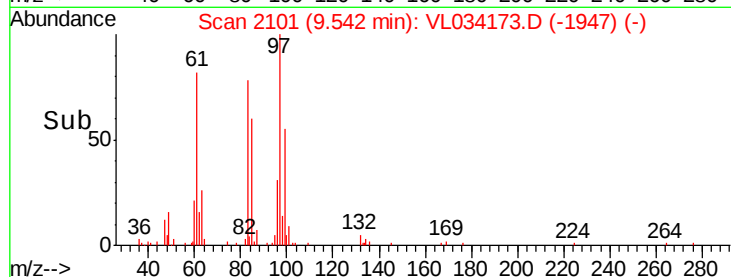
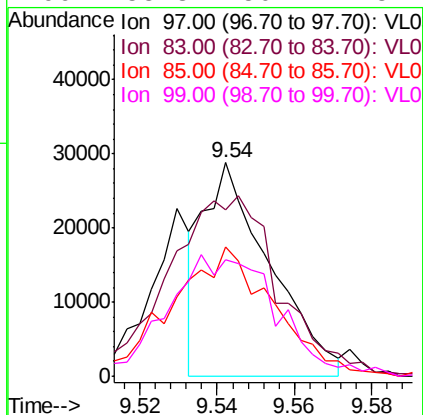
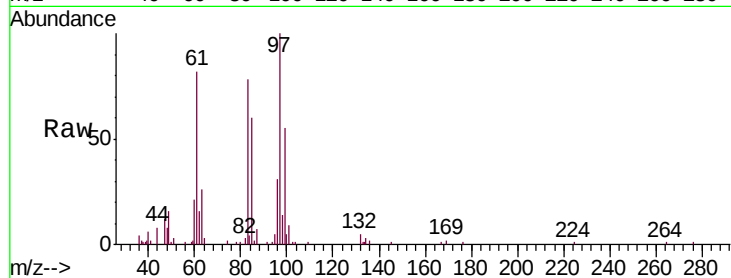




#47  
 1,1,2-Trichloroethane  
 Concen: 0.356 ppbv  
 RT: 9.54 min Scan# 2101  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

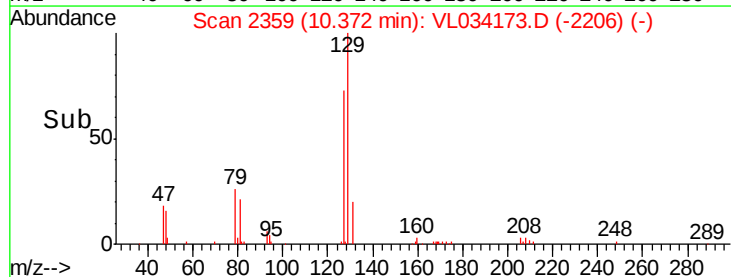
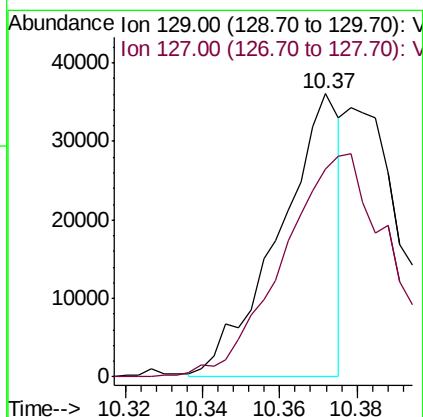
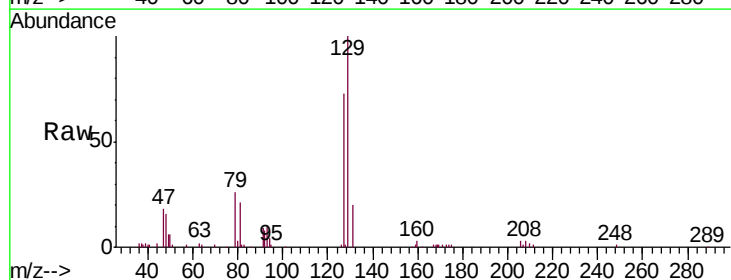
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

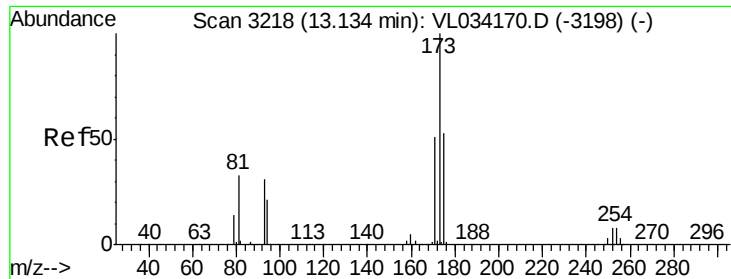
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 34346 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 77.0  | 75.3  | 112.9 |
| 85       | 58.0  | 52.1  | 78.1  |
| 99       | 55.3  | 50.2  | 75.2  |



#48  
 Dibromochloromethane  
 Concen: 0.270 ppbv  
 RT: 10.37 min Scan# 2359  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 39405  |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 0.0   | 39.2  | 117.6# |





#49

Bromoform

Concen: 0.279 ppbv

RT: 13.12 min Scan# 3214

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

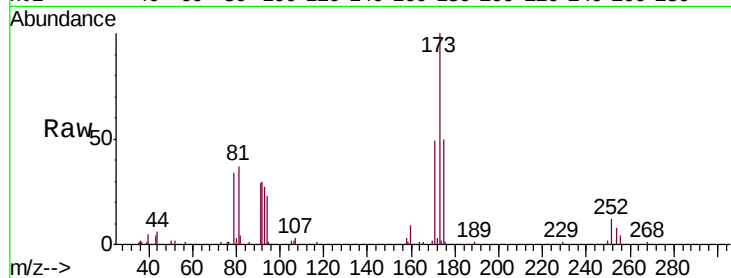
Tgt Ion:173 Resp: 35253

Ion Ratio Lower Upper

173 100

175 80.3 40.3 60.5#

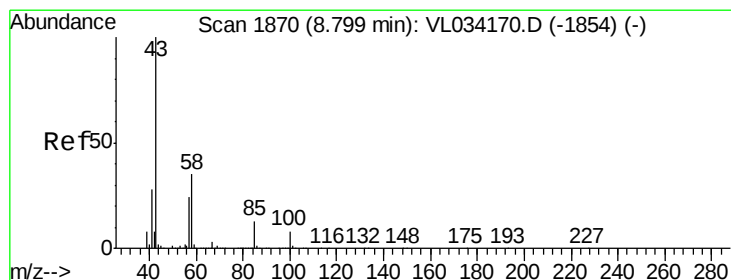
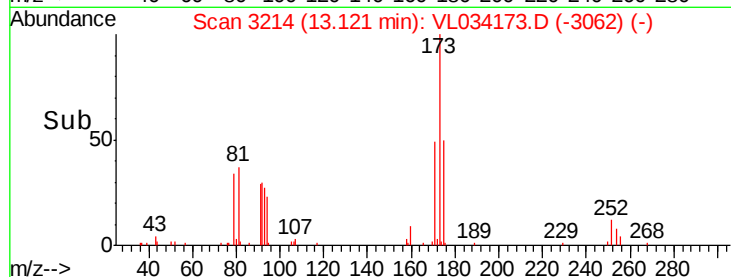
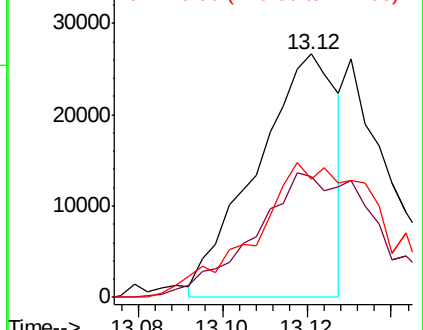
171 87.9 42.0 63.0#



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: 0.519 ppbv

RT: 8.82 min Scan# 1876

Delta R.T. 0.02 min

Lab File: VL034173.D

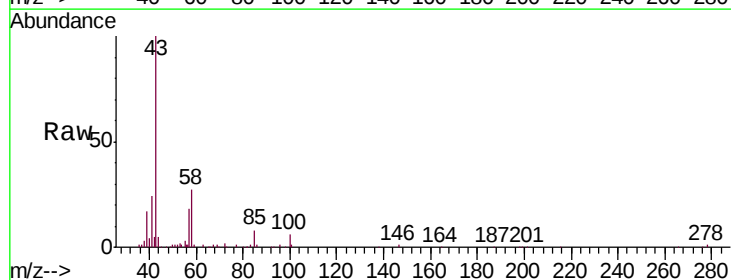
Acq: 17 Sep 2019 6:09

Tgt Ion: 43 Resp: 166555

Ion Ratio Lower Upper

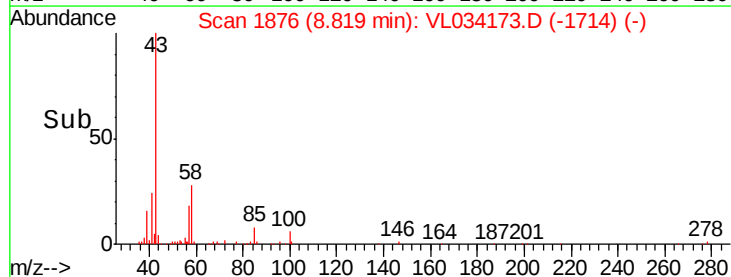
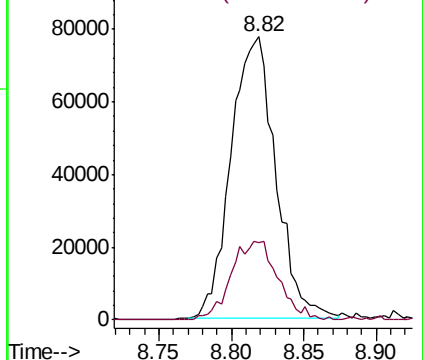
43 100

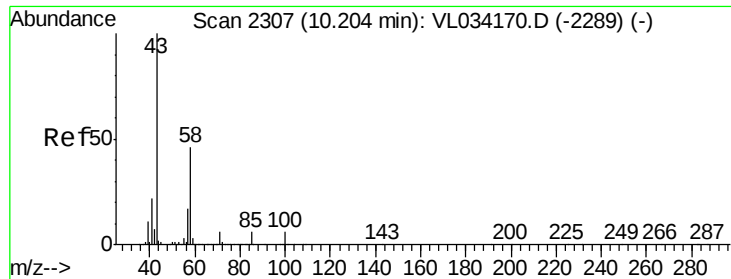
58 29.3 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.445 ppbv

RT: 10.21 min Scan# 2310

Delta R.T. 0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

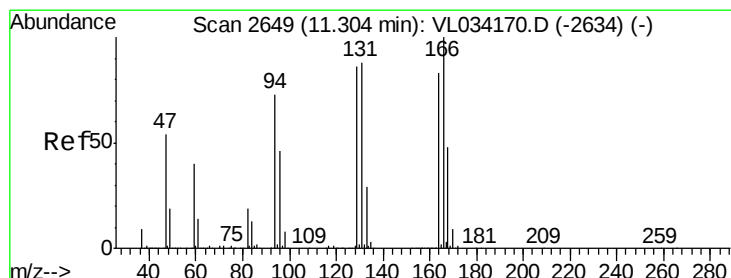
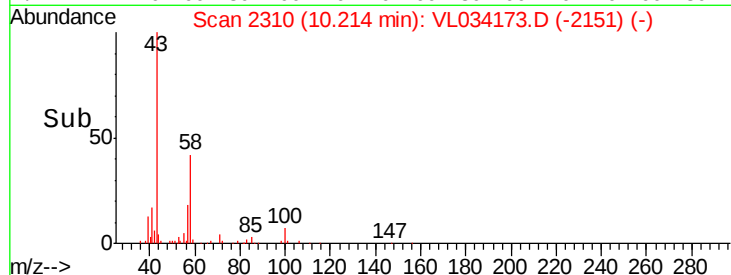
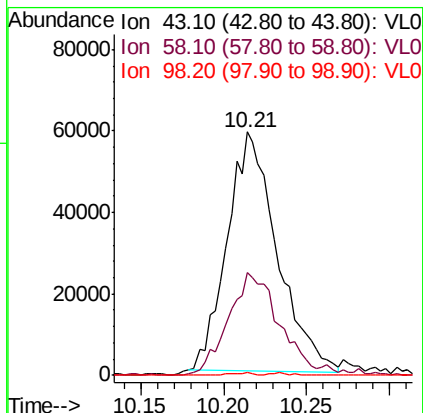
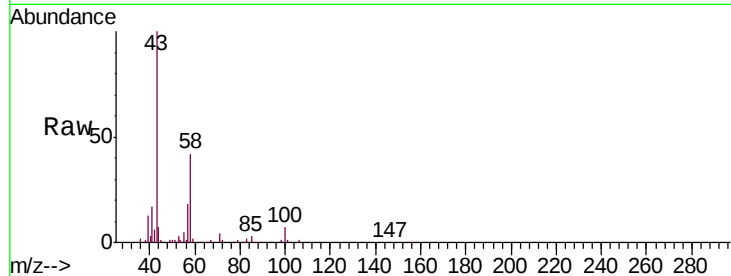
Tgt Ion: 43 Resp: 123269

Ion Ratio Lower Upper

43 100

58 45.2 36.2 54.4

98 0.9 0.2 0.2#



#52

Tetrachloroethene

Concen: 0.348 ppbv

RT: 11.29 min Scan# 2645

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion: 164 Resp: 30177

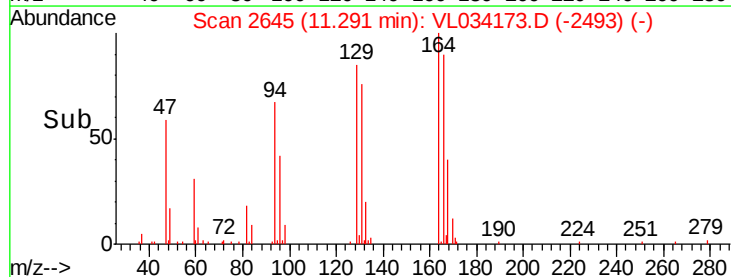
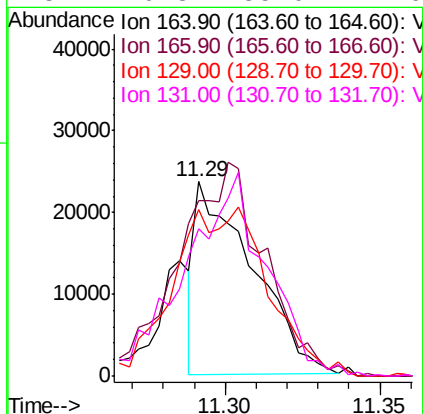
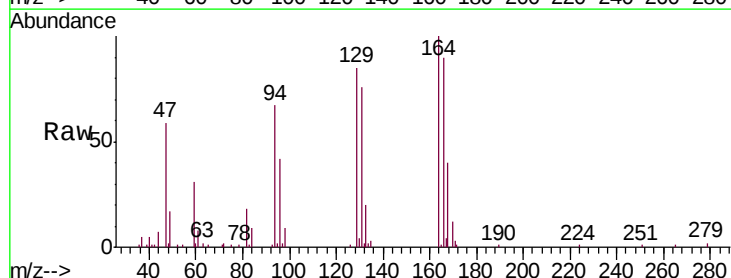
Ion Ratio Lower Upper

164 100

166 86.2 96.7 145.1#

129 79.4 82.8 124.2#

131 70.3 85.0 127.6#





#53

Toluene

Concen: 0.491 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

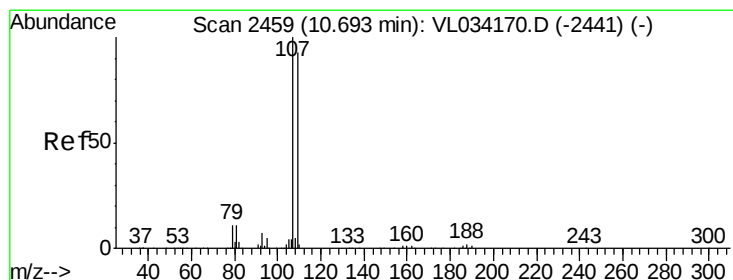
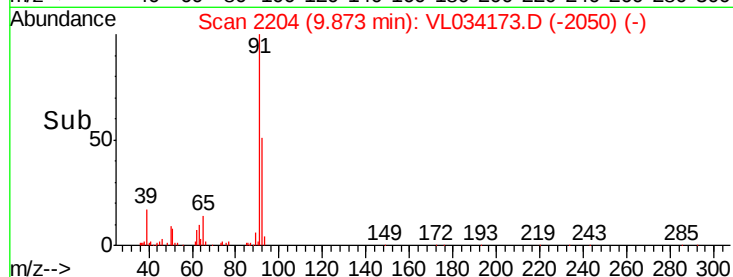
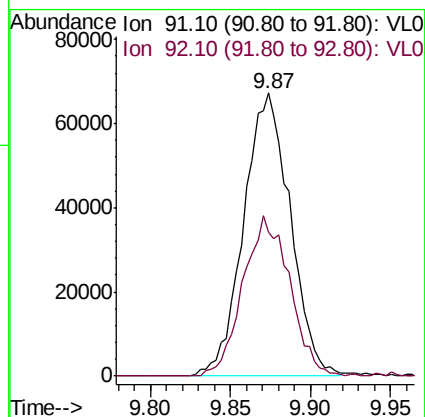
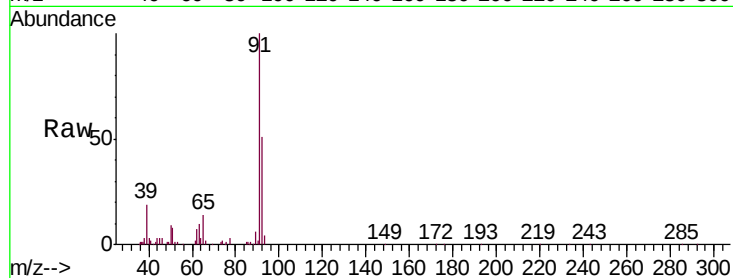
VSTDIC0.5

Tgt Ion: 91 Resp: 133901

Ion Ratio Lower Upper

91 100

92 56.7 49.0 73.6



#54

1,2-Dibromoethane

Concen: 0.452 ppbv

RT: 10.68 min Scan# 2456

Delta R.T. -0.01 min

Lab File: VL034173.D

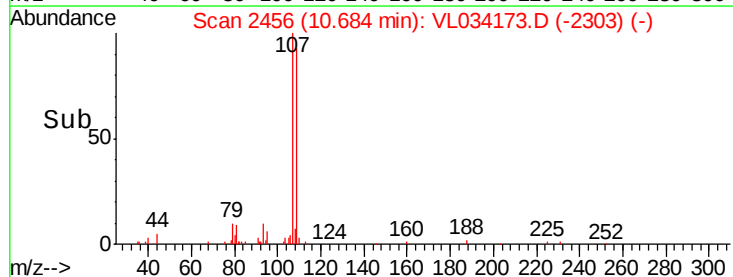
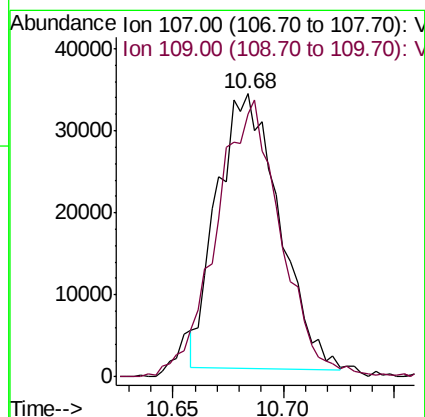
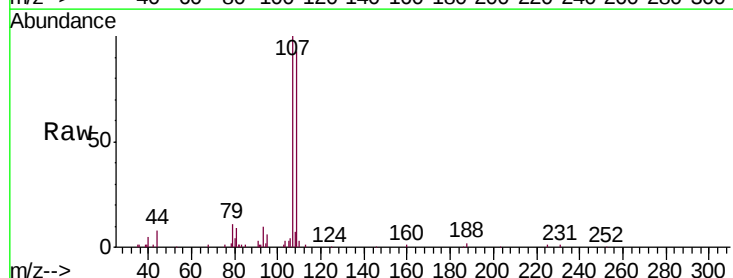
Acq: 17 Sep 2019 6:09

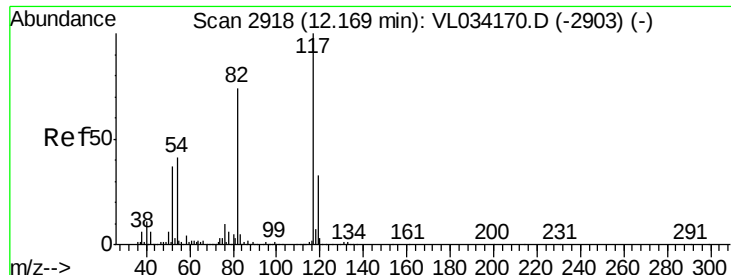
Tgt Ion: 107 Resp: 65080

Ion Ratio Lower Upper

107 100

109 92.9 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

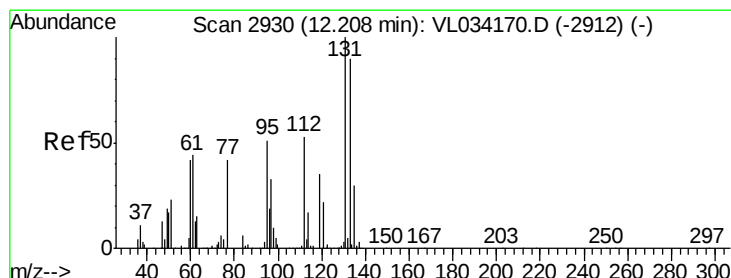
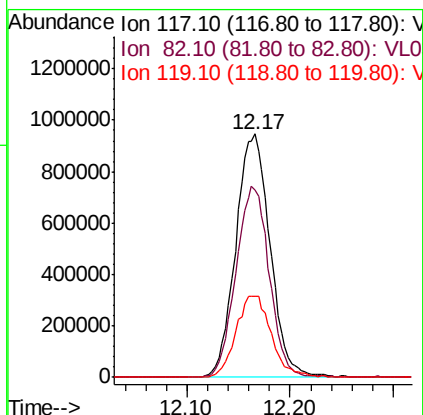
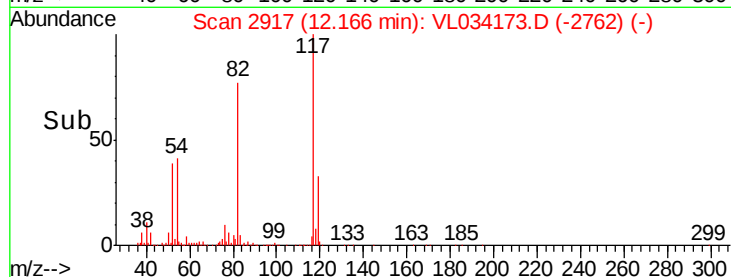
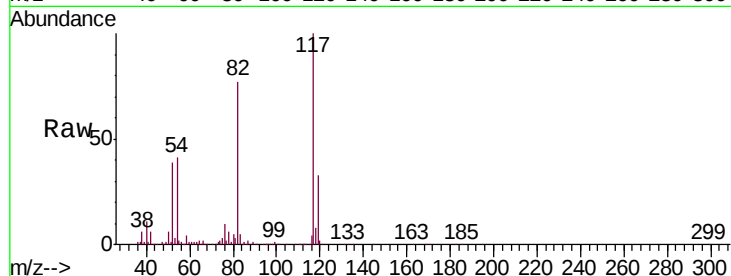
Tgt Ion:117 Resp: 2190184

Ion Ratio Lower Upper

117 100

82 76.5 58.2 87.4

119 34.7 23.7 35.5



#56

1,1,1,2-Tetrachloroethane

Concen: 0.450 ppbv

RT: 12.21 min Scan# 2930

Delta R.T. 0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

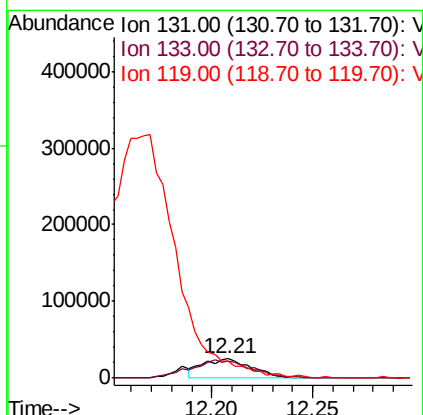
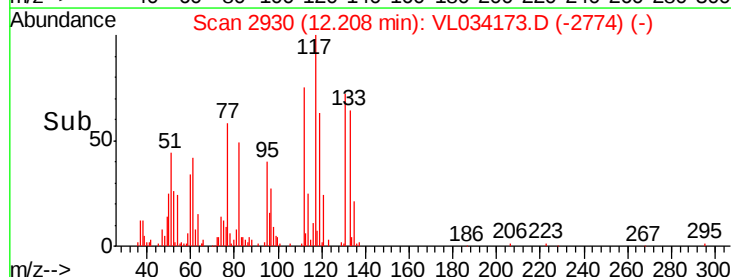
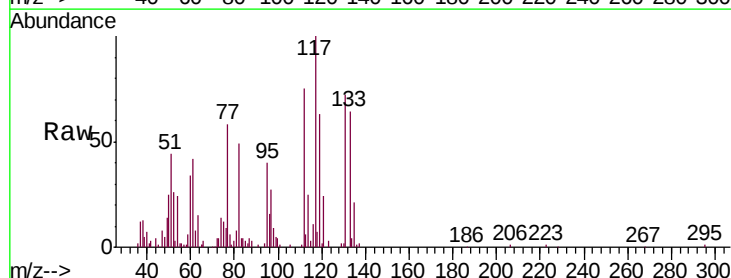
Tgt Ion:131 Resp: 42730

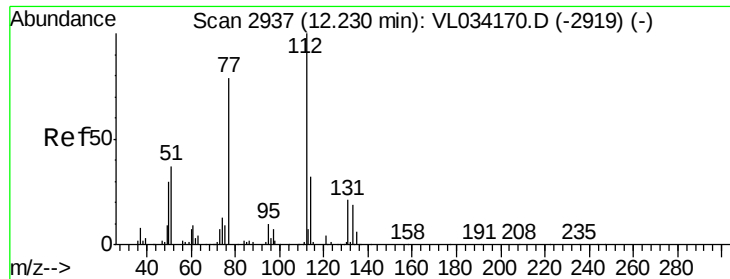
Ion Ratio Lower Upper

131 100

133 115.4 75.1 112.7#

119 0.0 47.4 71.0#

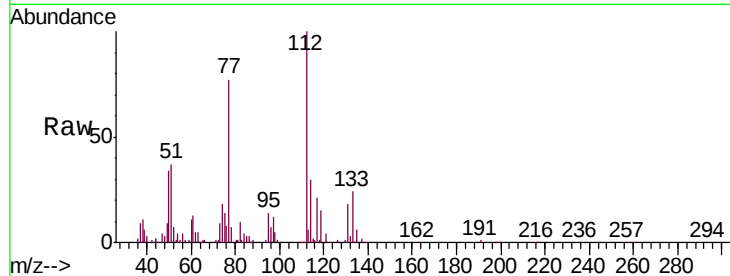




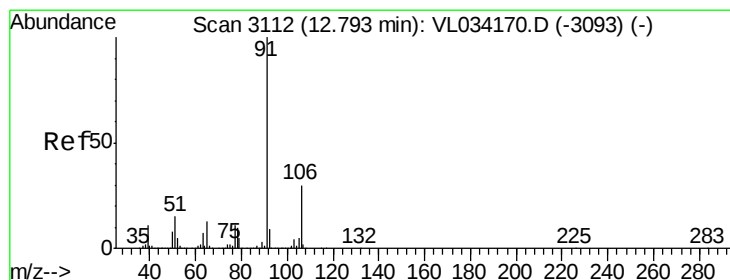
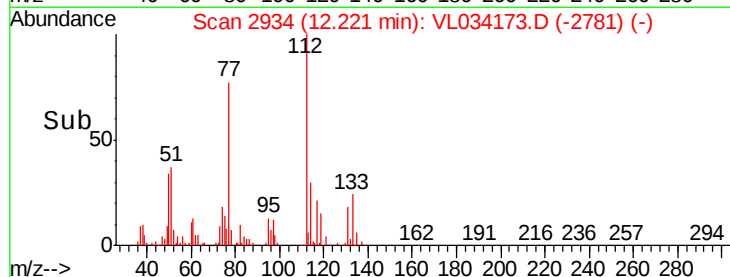
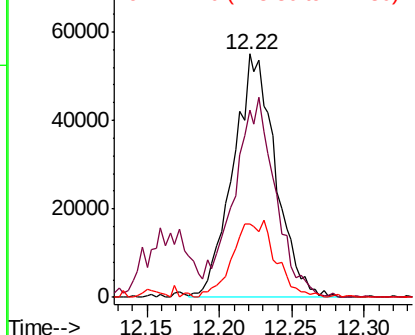
#57  
Chlorobenzene  
Concen: 0.592 ppbv  
RT: 12.22 min Scan# 2934  
Delta R.T. -0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 76.4  | 64.3  | 96.5  |
| 114     | 28.9  | 28.9  | 35.3  |

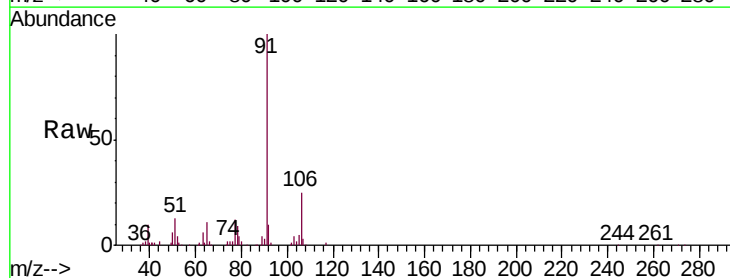


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

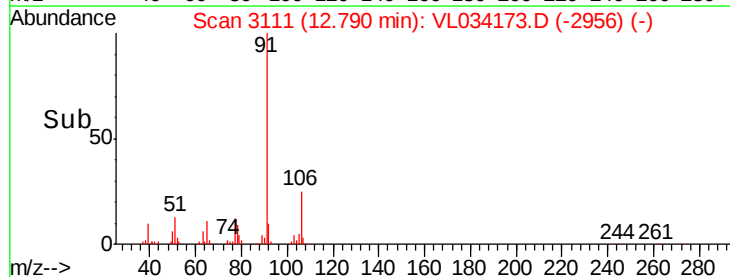
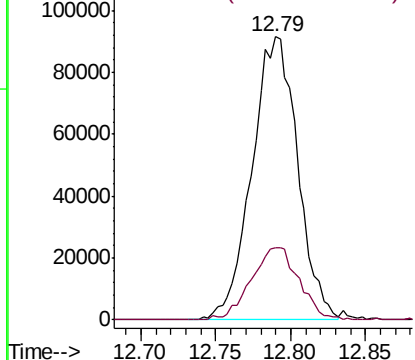


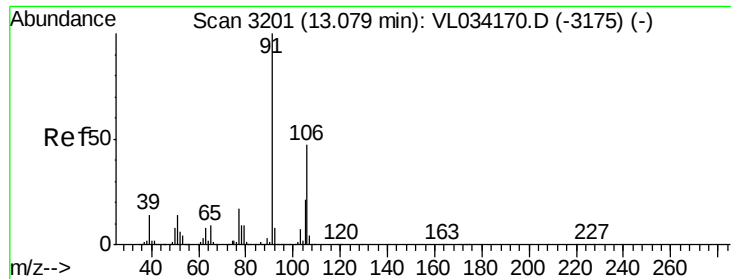
#58  
Ethyl Benzene  
Concen: 0.541 ppbv  
RT: 12.79 min Scan# 3111  
Delta R.T. -0.00 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 25.4  | 24.2  | 36.4  |



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

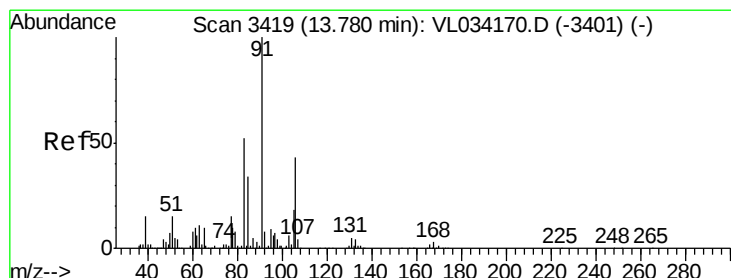
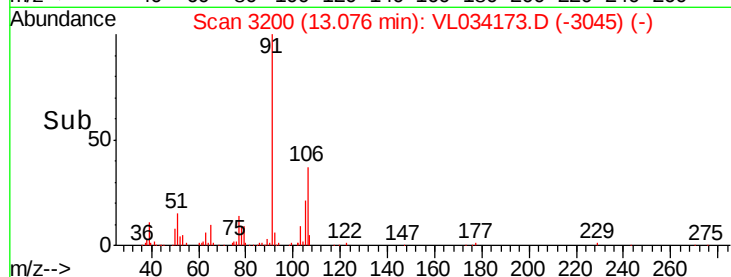
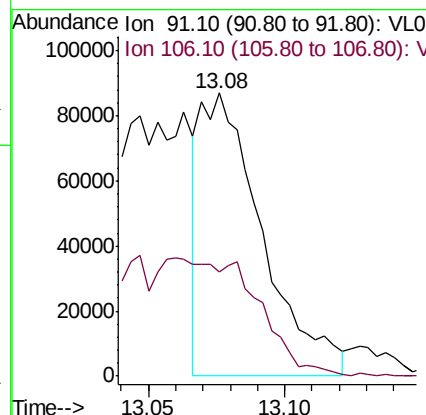
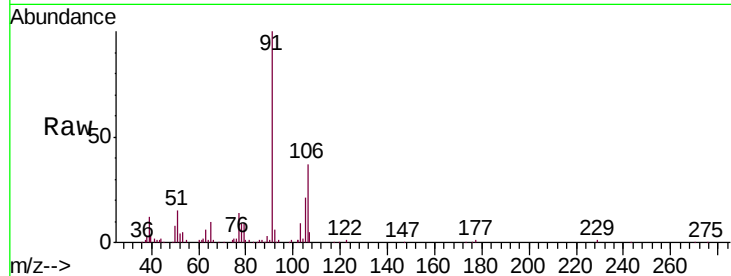




#59  
m/p-Xylene  
Concen: 0.466 ppbv  
RT: 13.08 min Scan# 3200  
Delta R.T. -0.00 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

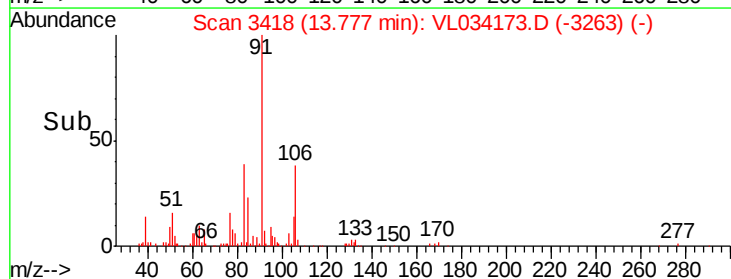
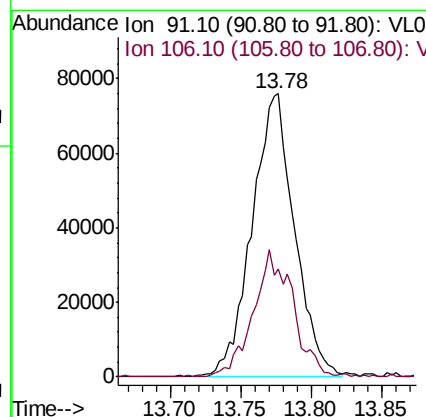
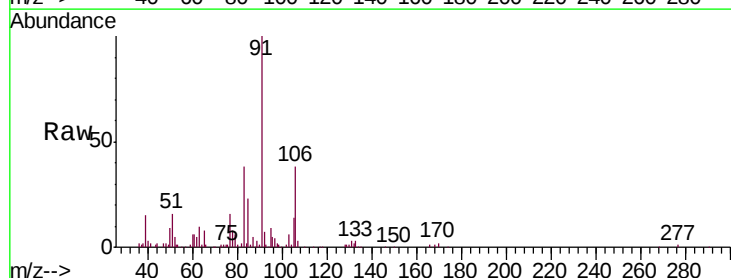
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

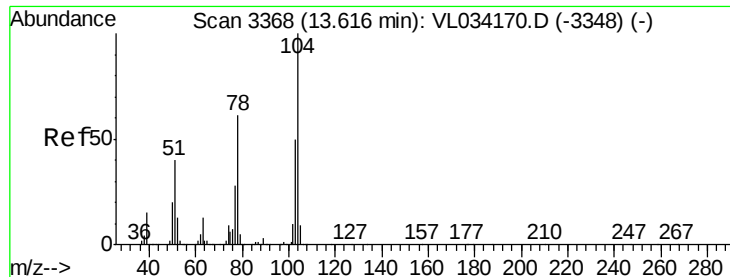
Tgt Ion: 91 Resp: 136723  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.5 53.3#



#60  
o-Xylene  
Concen: 0.547 ppbv  
RT: 13.78 min Scan# 3418  
Delta R.T. -0.00 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

Tgt Ion: 91 Resp: 160286  
Ion Ratio Lower Upper  
91 100  
106 42.3 21.2 63.6





#61

Styrene

Concen: 0.484 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

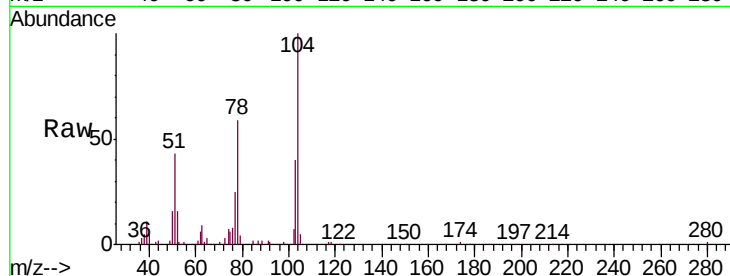
Tgt Ion:104 Resp: 105336

Ion Ratio Lower Upper

104 100

78 63.1 49.7 74.5

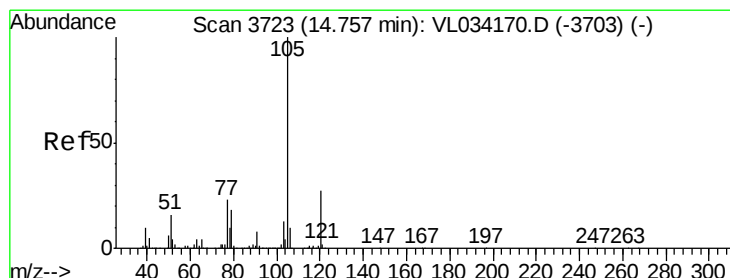
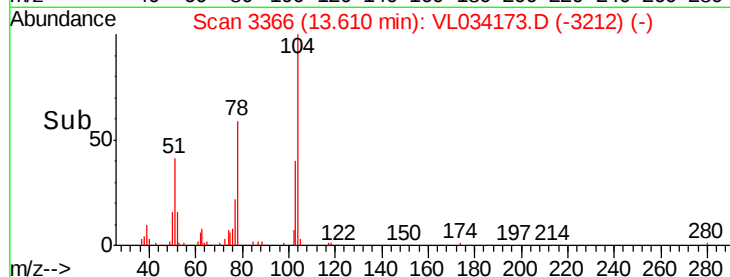
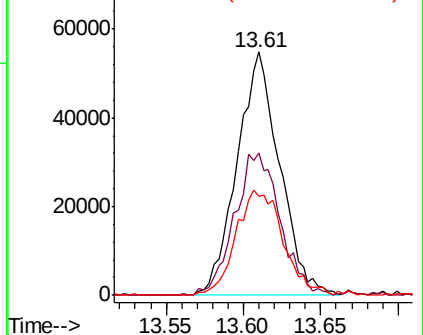
103 48.0 38.4 57.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.554 ppbv

RT: 14.75 min Scan# 3721

Delta R.T. -0.01 min

Lab File: VL034173.D

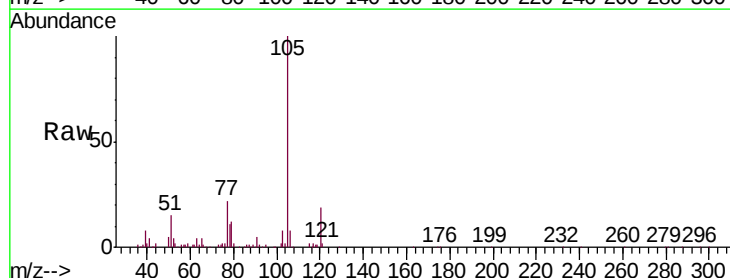
Acq: 17 Sep 2019 6:09

Tgt Ion:105 Resp: 211100

Ion Ratio Lower Upper

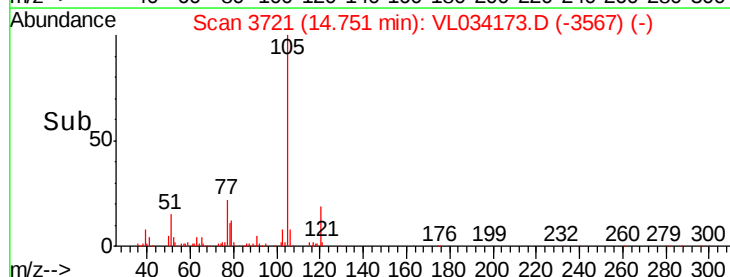
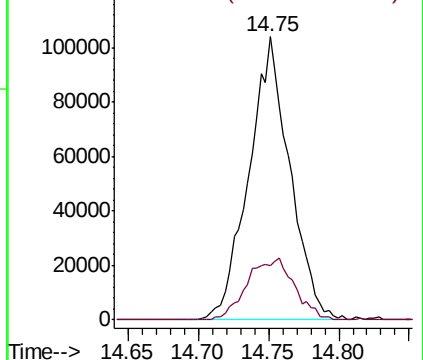
105 100

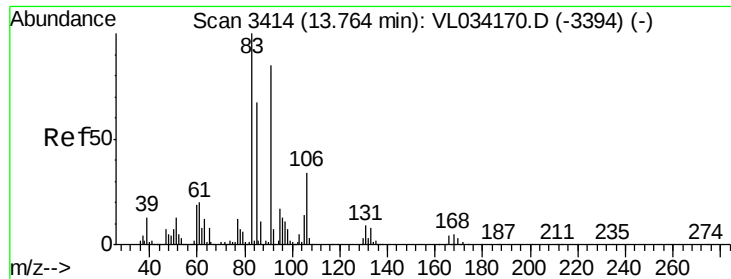
120 25.1 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

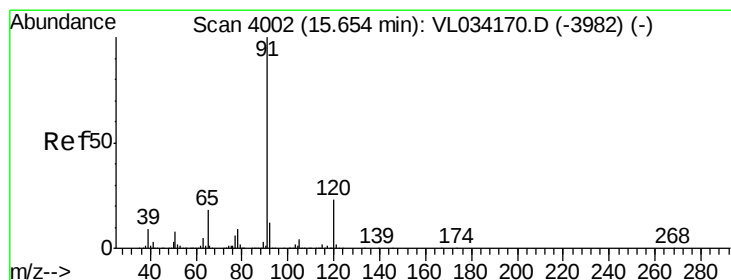
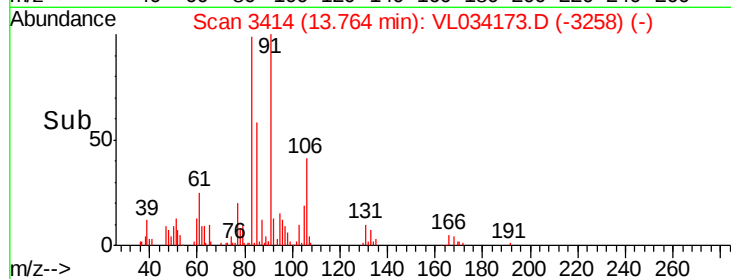
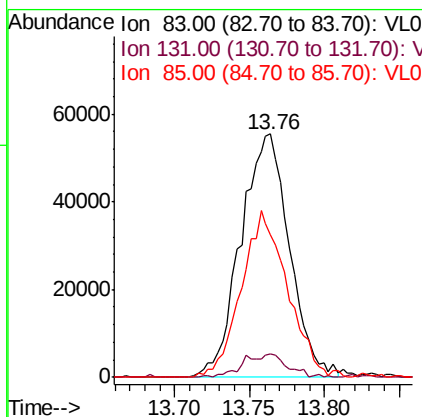
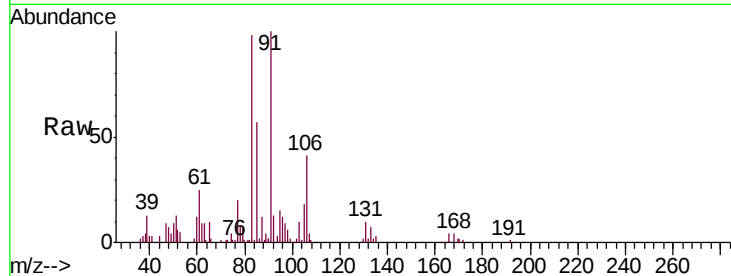




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.525 ppbv  
 RT: 13.76 min Scan# 3414  
 Delta R.T. 0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

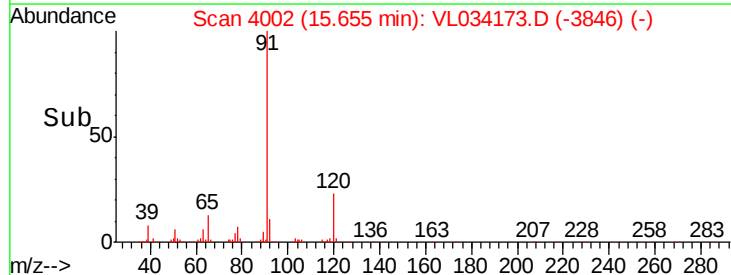
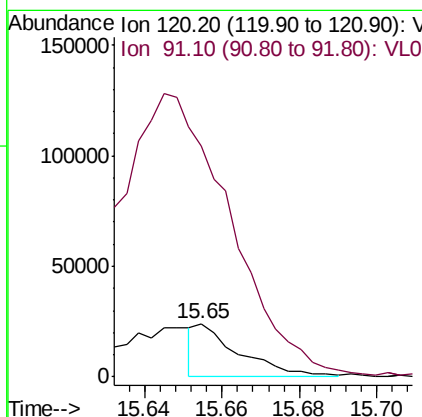
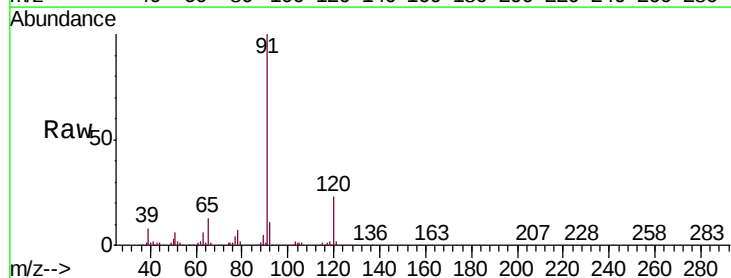
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

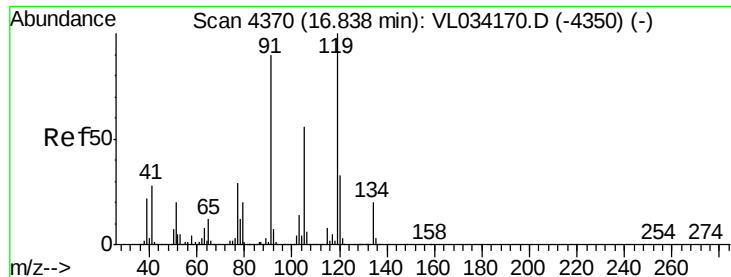
Tgt Ion: 83 Resp: 125423  
 Ion Ratio Lower Upper  
 83 100  
 131 8.8 4.3 12.8  
 85 65.6 32.8 98.4



#64  
 n-propylbenzene  
 Concen: 0.196 ppbv  
 RT: 15.65 min Scan# 4002  
 Delta R.T. 0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 120 Resp: 18726  
 Ion Ratio Lower Upper  
 120 100  
 91 0.0 378.2 567.2#

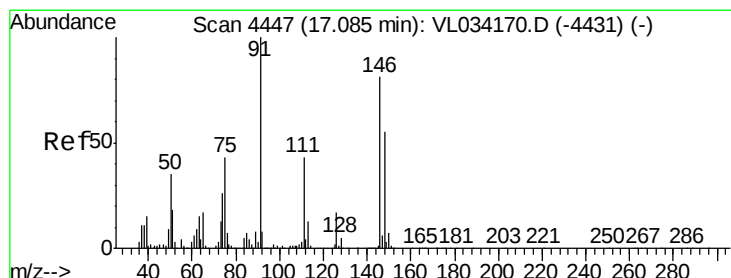
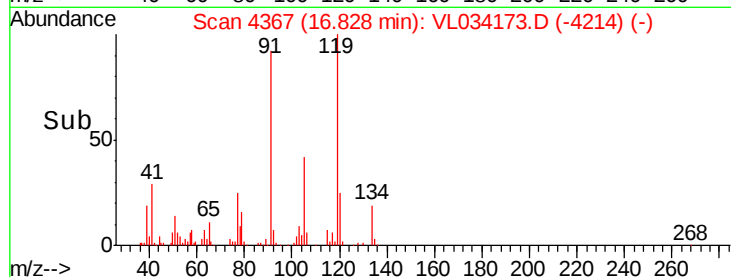
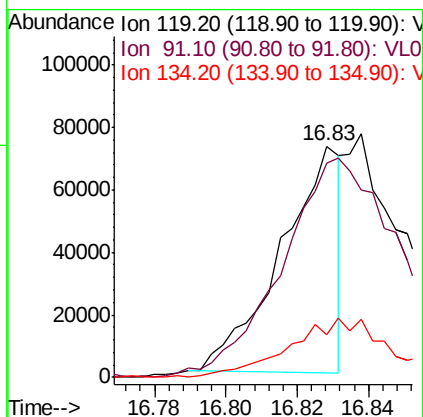
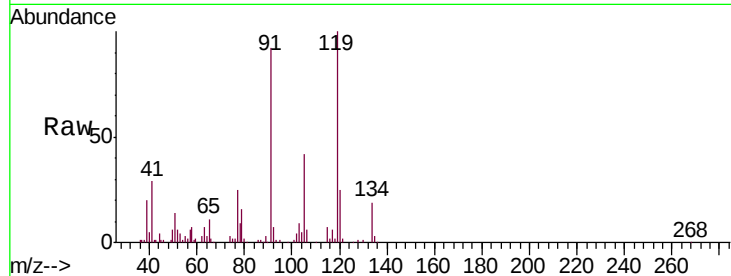




#65  
 tert-Butylbenzene  
 Concen: 0.254 ppbv  
 RT: 16.83 min Scan# 4367  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

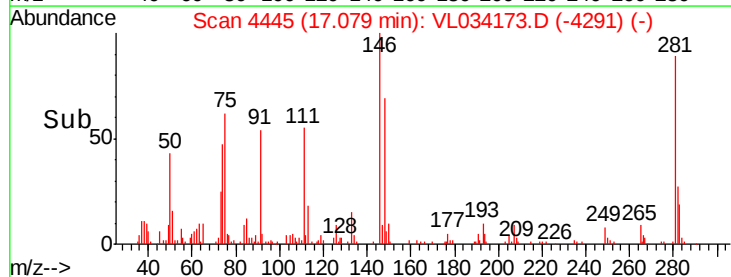
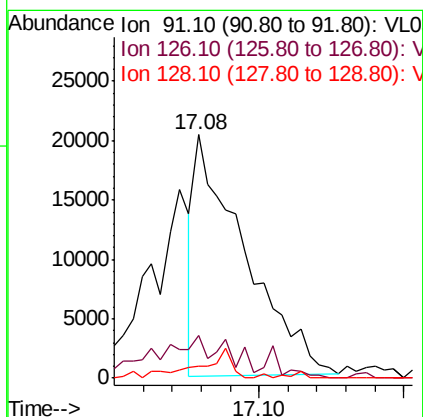
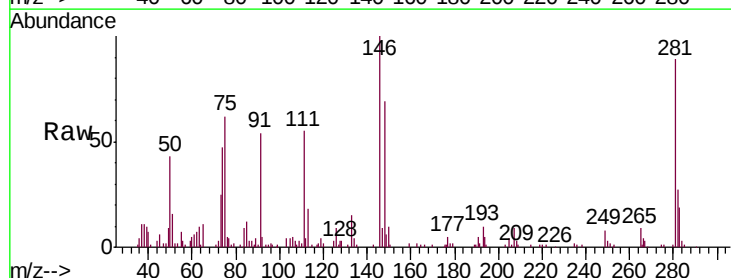
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

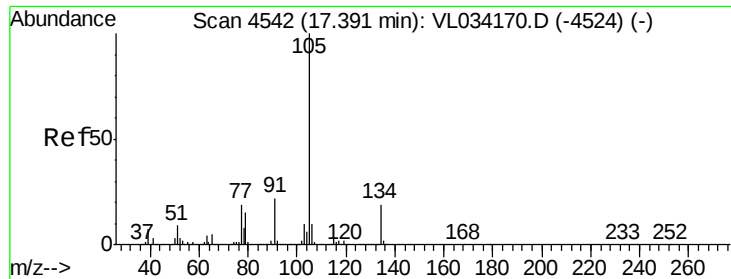
Tgt Ion: 119 Resp: 83558  
 Ion Ratio Lower Upper  
 119 100  
 91 204.0 74.9 112.3#  
 134 44.0 15.8 23.6#



#66  
 Benzyl Chloride  
 Concen: 0.203 ppbv  
 RT: 17.08 min Scan# 4445  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 91 Resp: 24177  
 Ion Ratio Lower Upper  
 91 100  
 126 36.3 12.6 19.0#  
 128 9.4 4.0 6.0#

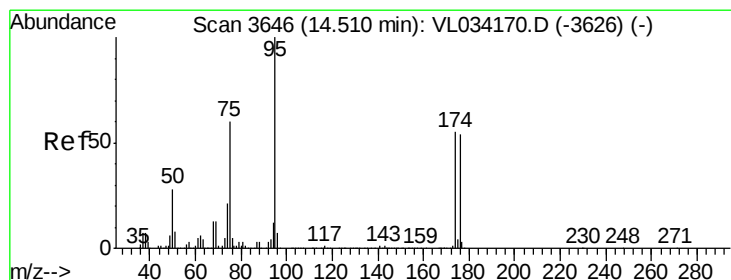
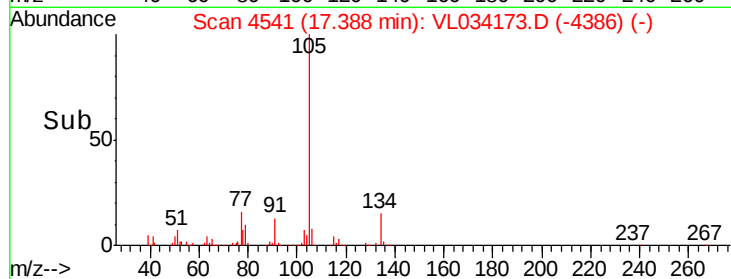
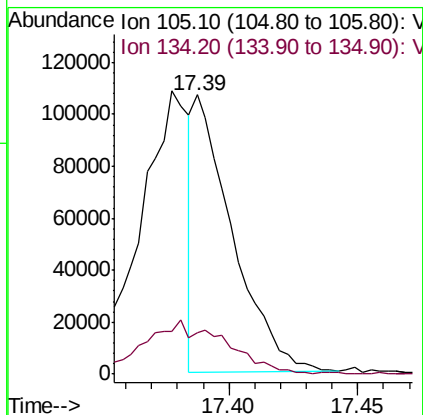
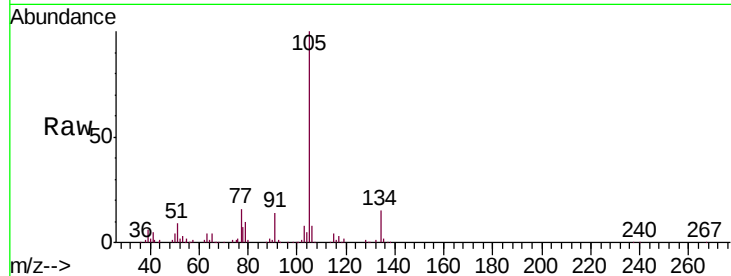




#67  
 sec-Butylbenzene  
 Concen: 0.234 ppbv  
 RT: 17.39 min Scan# 4541  
 Delta R.T. -0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

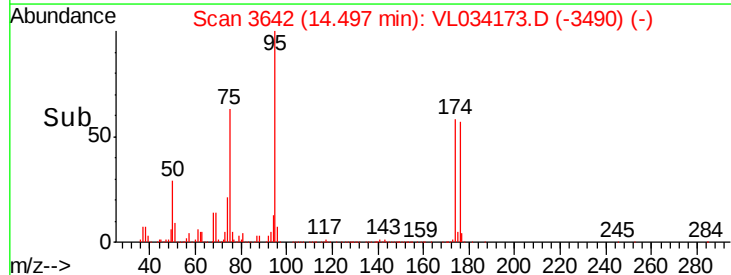
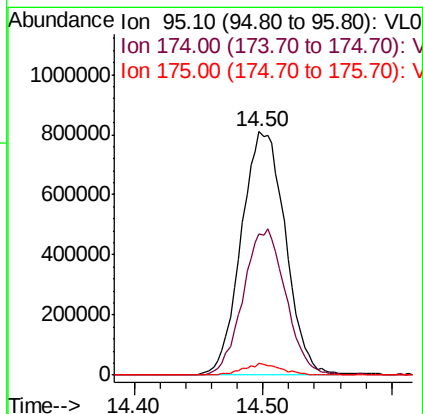
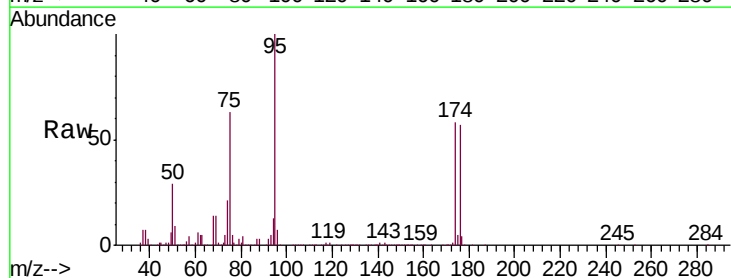
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

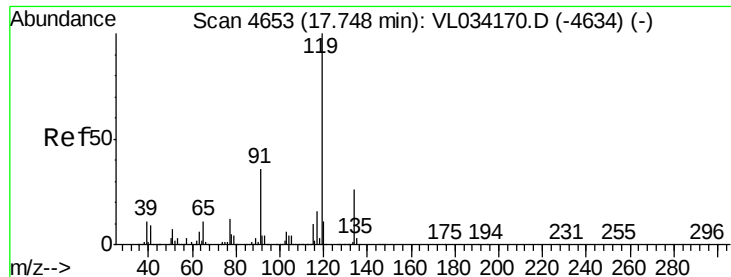
Tgt Ion: 105 Resp: 111042  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 14.6 22.0#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.665 ppbv  
 RT: 14.50 min Scan# 3642  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 95 Resp: 1926154  
 Ion Ratio Lower Upper  
 95 100  
 174 58.2 45.1 67.7  
 175 4.1 3.3 4.9

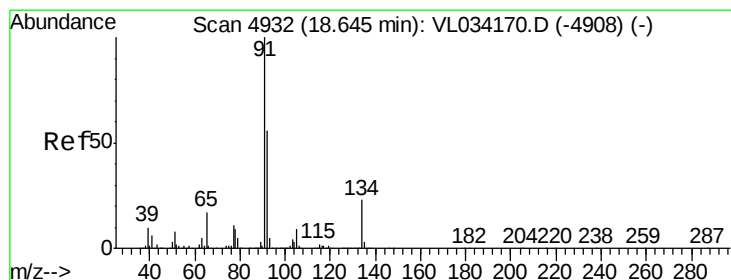
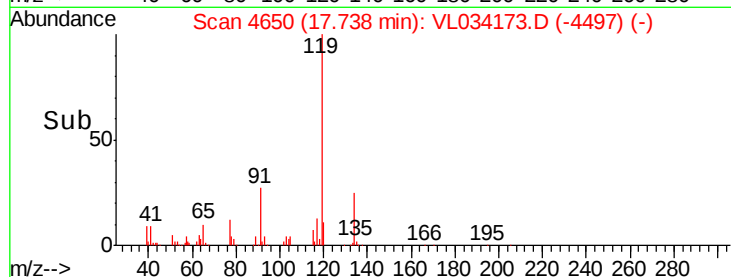
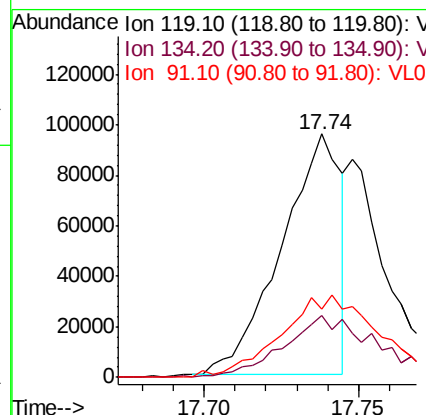
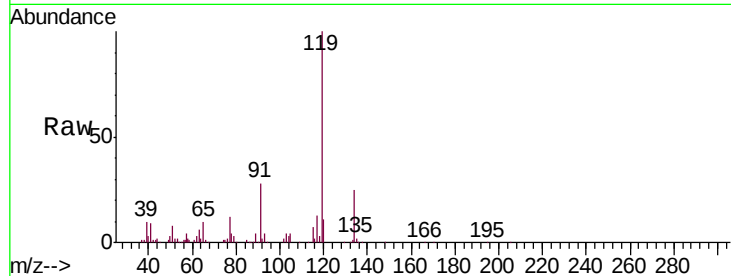




#69  
p-Isopropyltoluene  
Concen: 0.334 ppbv  
RT: 17.74 min Scan# 4650  
Delta R.T. -0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

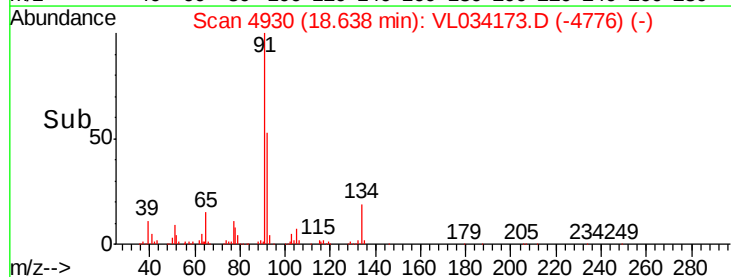
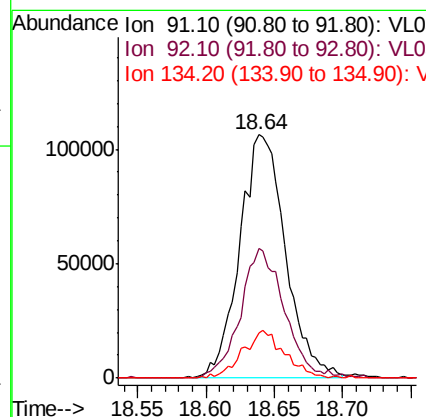
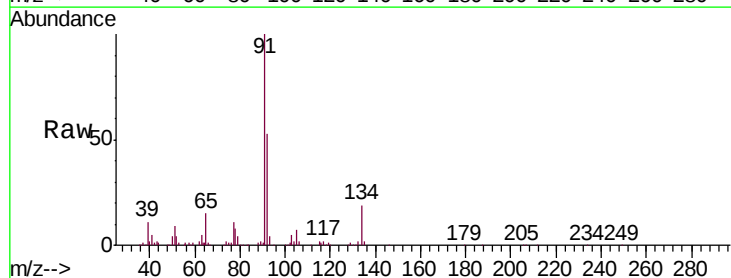
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

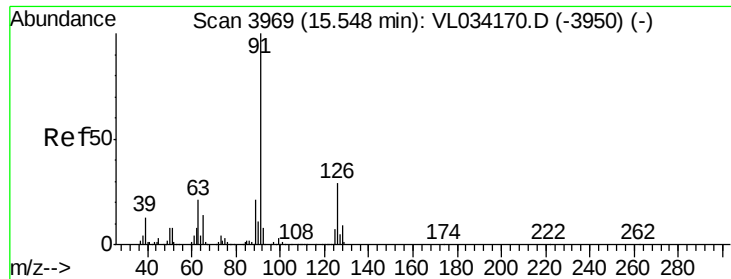
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 40.0  | 20.6  | 30.8# |
| 91      | 57.6  | 27.6  | 41.4# |



#70  
n-Butylbenzene  
Concen: 0.568 ppbv  
RT: 18.64 min Scan# 4930  
Delta R.T. -0.01 min  
Lab File: VL034173.D  
Acq: 17 Sep 2019 6:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.8  | 44.8  | 67.2  |
| 134     | 18.3  | 17.3  | 25.9  |

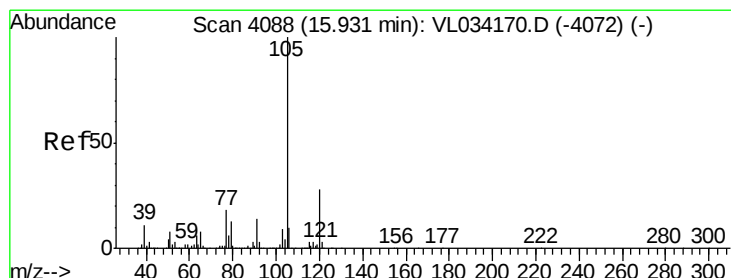
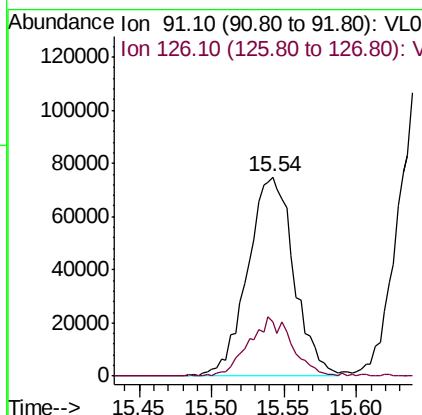
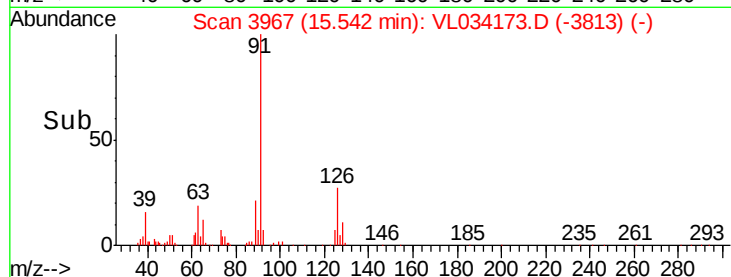
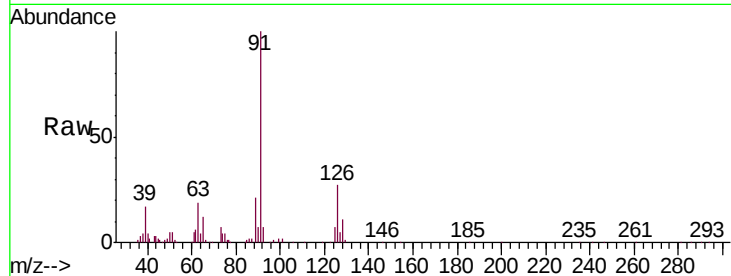




#71  
 2-Chlorotoluene  
 Concen: 0.532 ppbv  
 RT: 15.54 min Scan# 3967  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

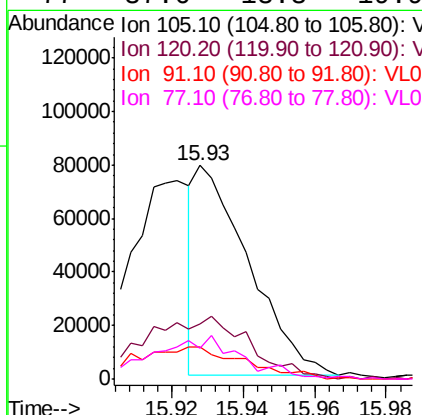
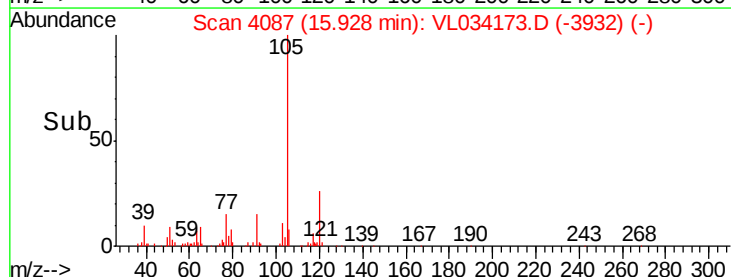
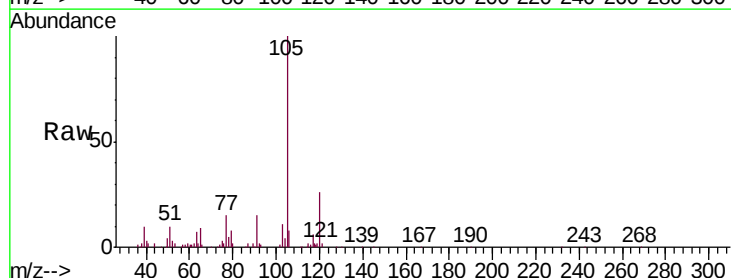
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

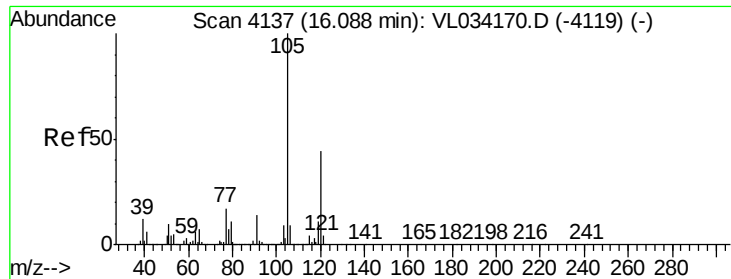
Tgt Ion: 91 Resp: 165718  
 Ion Ratio Lower Upper  
 91 100  
 126 28.1 11.2 45.0



#72  
 4-Ethyltoluene  
 Concen: 0.244 ppbv  
 RT: 15.93 min Scan# 4087  
 Delta R.T. -0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion: 105 Resp: 80721  
 Ion Ratio Lower Upper  
 105 100  
 120 61.6 23.3 34.9#  
 91 33.6 11.4 17.2#  
 77 37.6 13.3 19.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.530 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

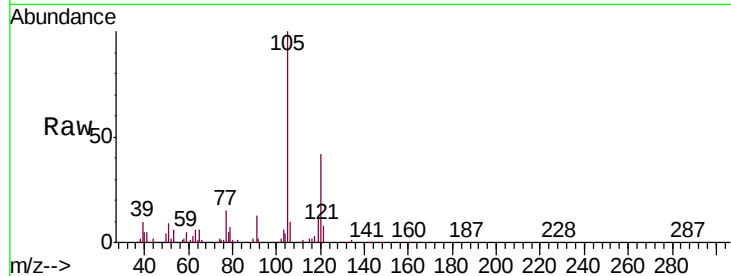
VSTDIC0.5

Tgt Ion:105 Resp: 170296

Ion Ratio Lower Upper

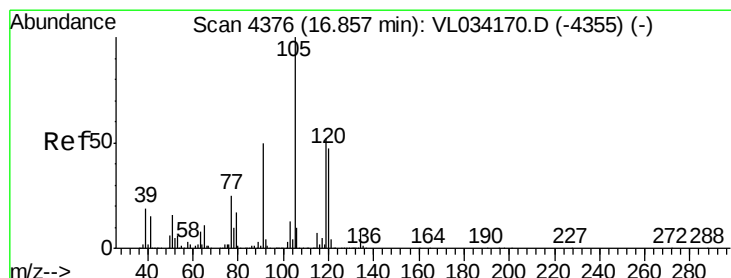
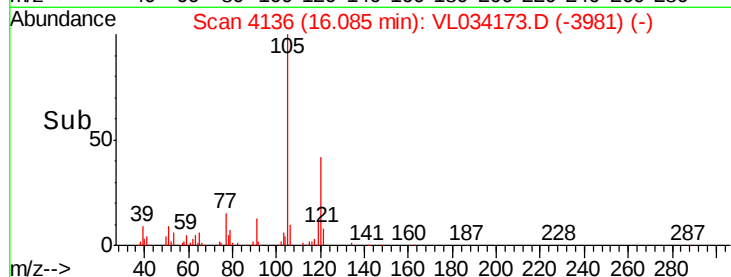
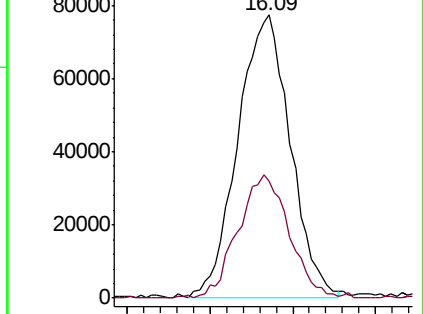
105 100

120 40.7 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.281 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Tgt Ion:105 Resp: 93265

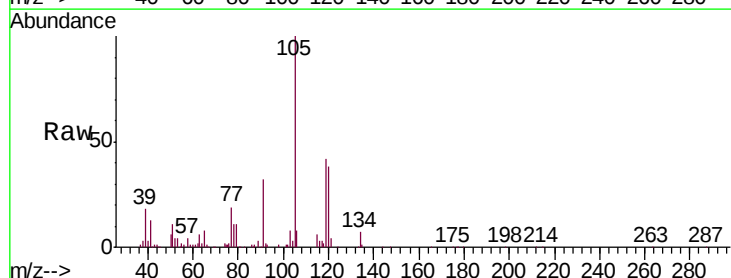
Ion Ratio Lower Upper

105 100

120 36.7 37.5 56.3#

91 30.5 41.1 61.7#

77 18.9 19.9 29.9#

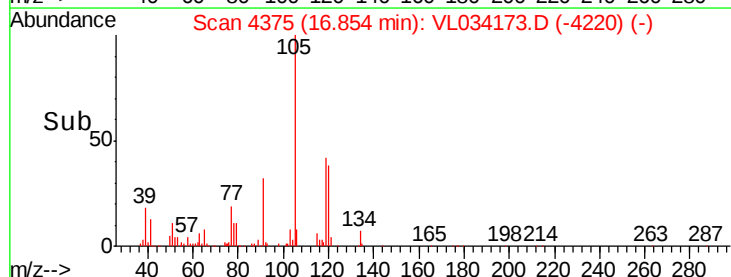
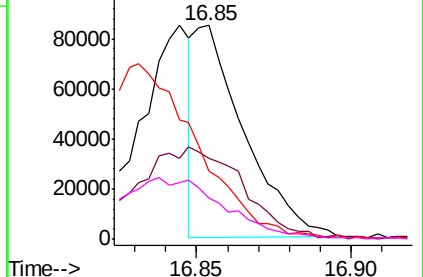


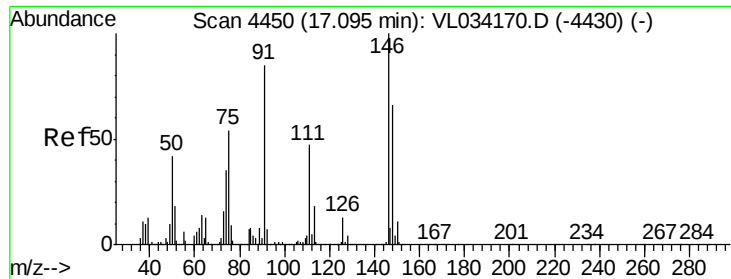
Abundance Ion 105.10 (104.80 to 105.80): V

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

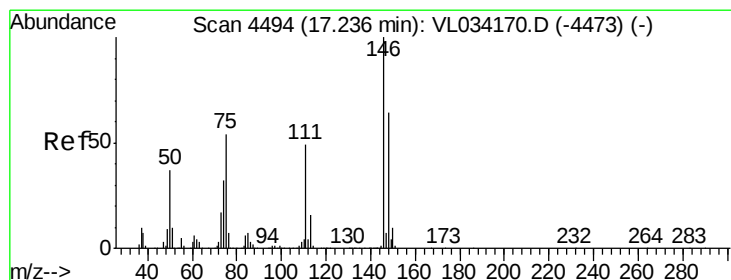
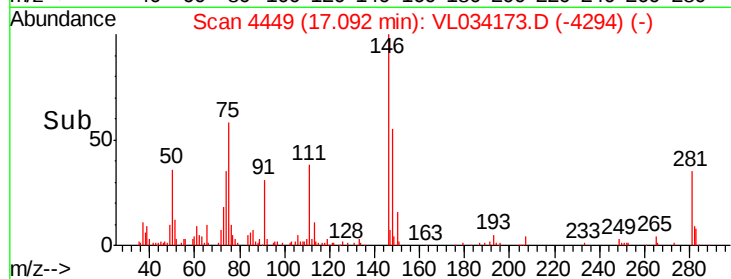
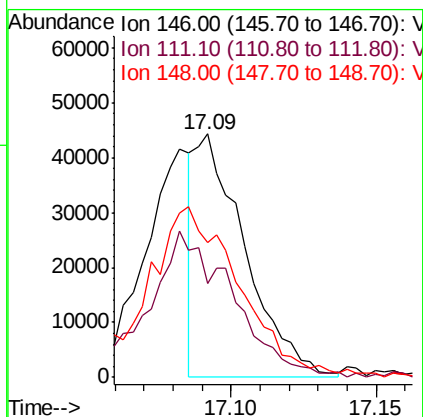
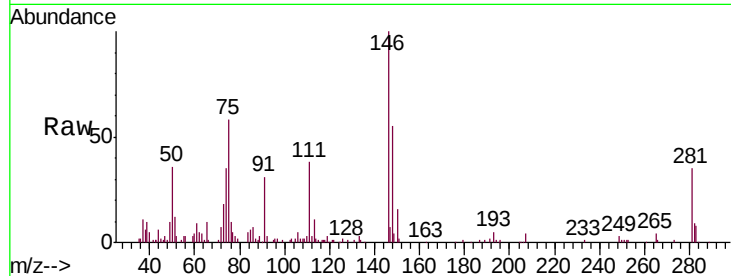




#75  
 1,3-Dichlorobenzene  
 Concen: 0.299 ppbv  
 RT: 17.09 min Scan# 4449  
 Delta R.T. -0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

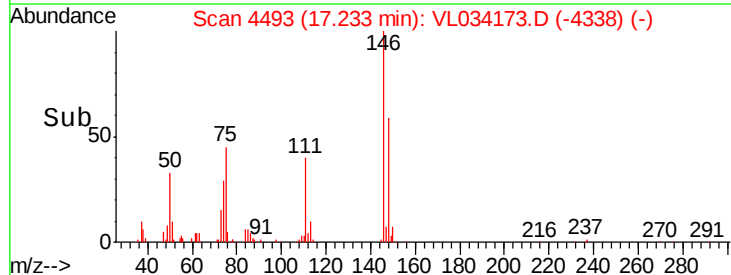
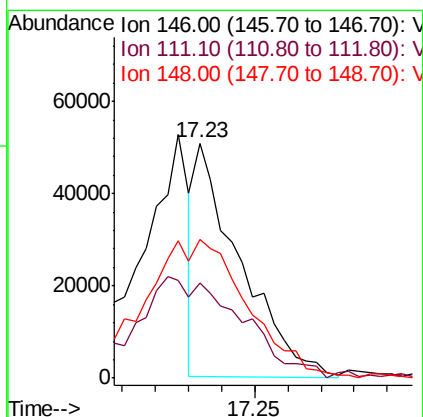
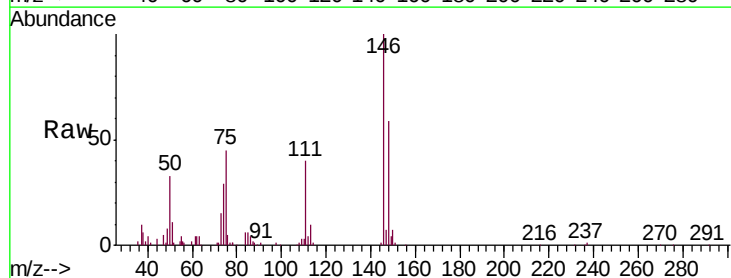
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

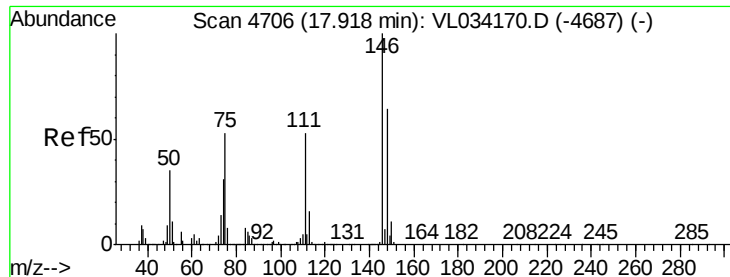
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 25.9  | 77.8# |
| 148     | 0.0   | 32.6  | 97.7# |



#76  
 1,4-Dichlorobenzene  
 Concen: 0.259 ppbv  
 RT: 17.23 min Scan# 4493  
 Delta R.T. -0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 24.6  | 74.0# |
| 148     | 141.4 | 32.4  | 97.0# |

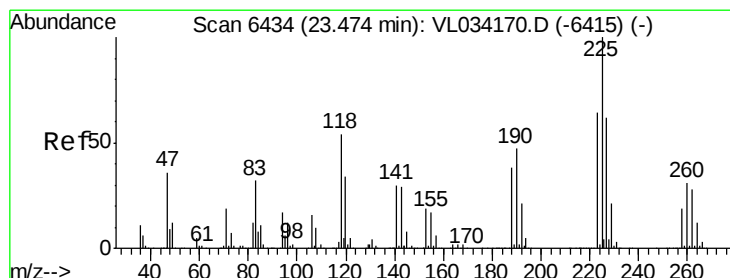
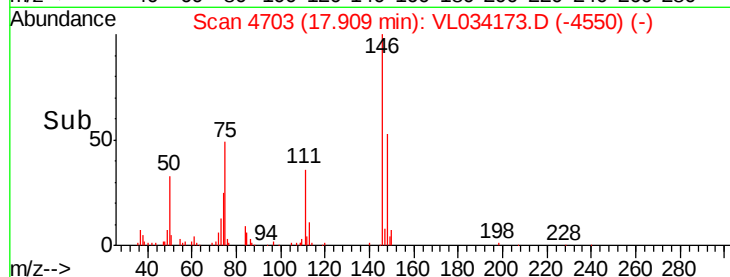
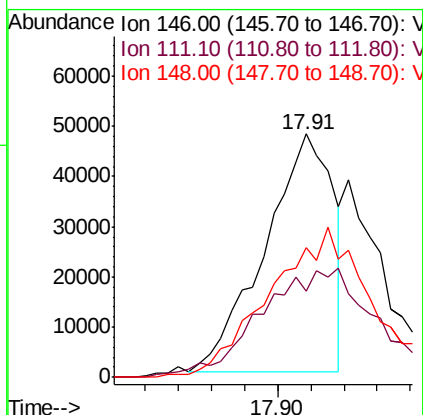
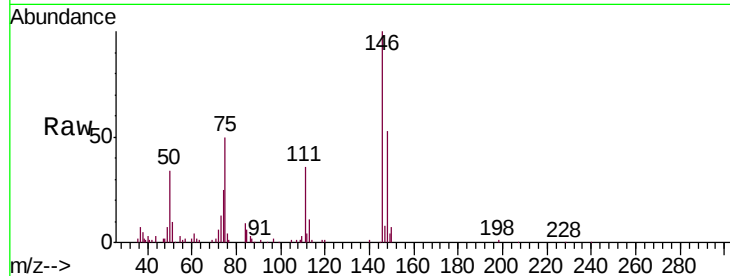




#77  
 1,2-Dichlorobenzene  
 Concen: 0.379 ppbv  
 RT: 17.91 min Scan# 4703  
 Delta R.T. -0.01 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

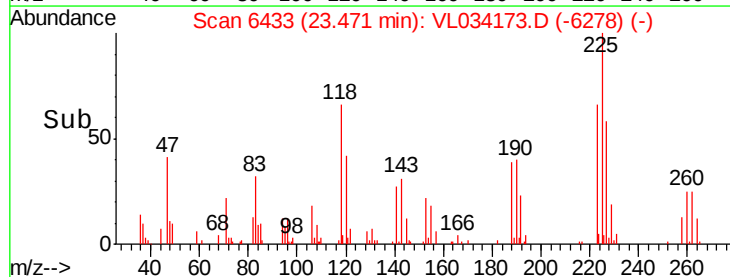
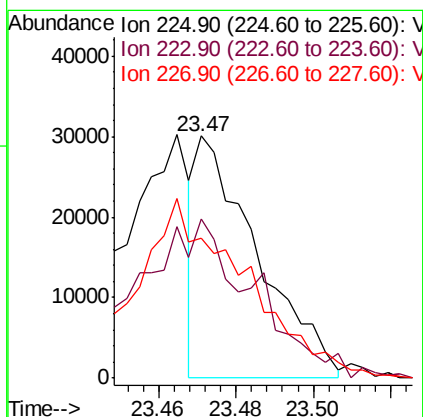
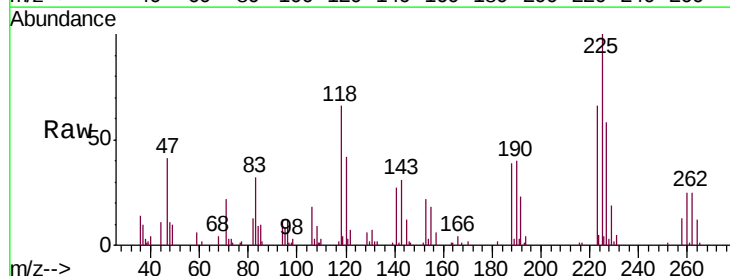
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

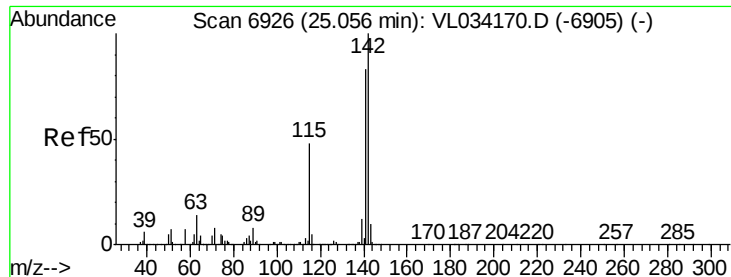
Tgt Ion:146 Resp: 68180  
 Ion Ratio Lower Upper  
 146 100  
 111 76.8 26.1 78.3  
 148 95.4 31.9 95.9



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.272 ppbv  
 RT: 23.47 min Scan# 6433  
 Delta R.T. -0.00 min  
 Lab File: VL034173.D  
 Acq: 17 Sep 2019 6:09

Tgt Ion:225 Resp: 33027  
 Ion Ratio Lower Upper  
 225 100  
 223 128.9 51.7 77.5#  
 227 0.0 52.1 78.1#





#80

Naphthalene, 2-methyl-

Concen: 0.743 ppbv

RT: 25.05 min Scan# 6925

Delta R.T. -0.00 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

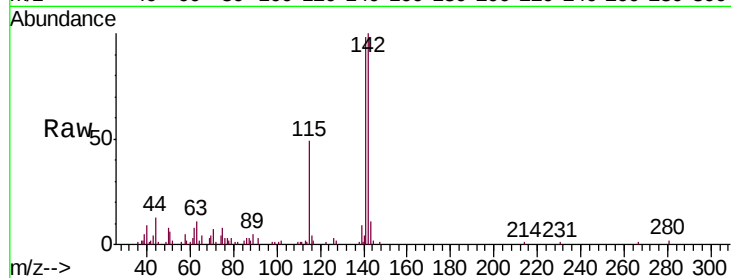
Tgt Ion:142 Resp: 74812

Ion Ratio Lower Upper

142 100

141 82.7 67.6 101.4

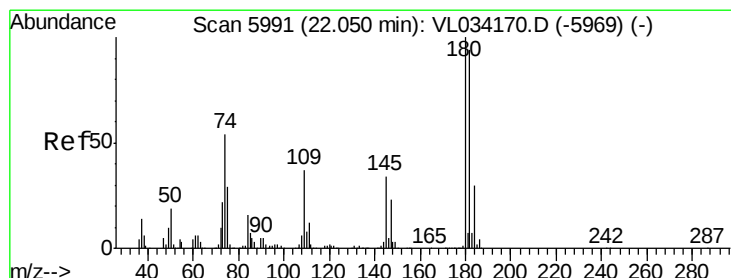
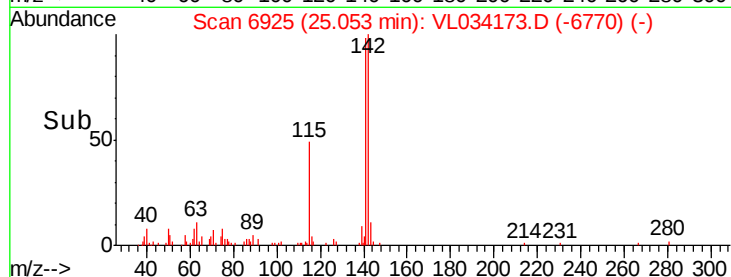
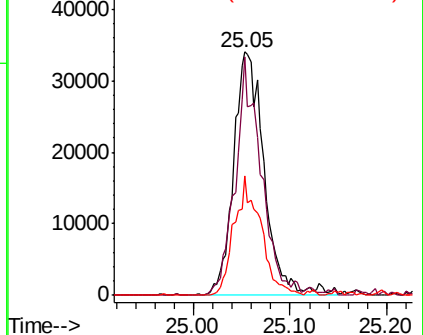
115 42.8 36.9 55.3



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.300 ppbv

RT: 22.04 min Scan# 5989

Delta R.T. -0.01 min

Lab File: VL034173.D

Acq: 17 Sep 2019 6:09

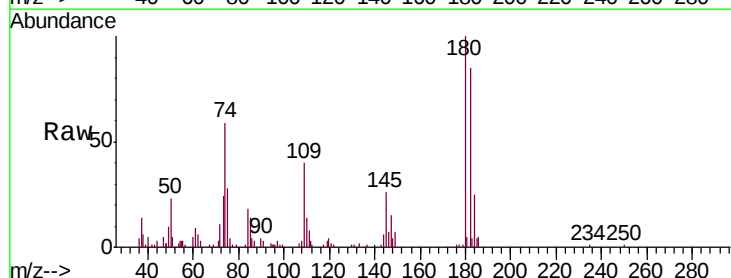
Tgt Ion:180 Resp: 48757

Ion Ratio Lower Upper

180 100

182 0.0 77.4 116.2#

184 54.9 25.0 37.4#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

