

Data File : VL033120.D  
Acq On : 28 Jan 2019 20:09  
Operator : SY/AP  
Sample : VSTDIC015  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Quant Time: Jan 28 20:53:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012819AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 28 16:32:44 2019  
QLast Update : Mon Jan 28 16:32:44 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1186528  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3020843  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 3202699  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 2148177  | 8.75     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 87.50% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.07 | 85   | 3420526  | 15.491 | ppbv  | 98     |
| 3) Chlorodifluoromethane       | 3.01 | 51   | 1914649  | 14.255 | ppbv  | 99     |
| 4) Chloromethane               | 3.17 | 50   | 1091002  | 14.182 | ppbv  | 96     |
| 5) Vinyl Chloride              | 3.29 | 62   | 1145975  | 14.750 | ppbv  | 99     |
| 6) Bromomethane                | 3.51 | 94   | 765765   | 14.509 | ppbv  | 100    |
| 7) Chloroethane                | 3.60 | 64   | 443001   | 14.581 | ppbv  | 100    |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85   | 2719100  | 14.296 | ppbv  | 99     |
| 9) Propene                     | 3.04 | 41   | 833466   | 16.611 | ppbv  | 99     |
| 10) Heptane                    | 8.25 | 43   | 2036361  | 14.255 | ppbv  | 100    |
| 11) Trichlorofluoromethane     | 4.00 | 101  | 2984575  | 12.232 | ppbv  | 94     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101  | 2050361  | 13.289 | ppbv  | 99     |
| 13) Ethanol                    | 3.65 | 45   | 232585   | 11.624 | ppbv  | 99     |
| 14) Bromoethene                | 3.79 | 108  | 999959   | 14.674 | ppbv  | 99     |
| 15) Acetone                    | 3.90 | 43   | 1977322  | 12.040 | ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.36 | 39   | 986235   | 15.925 | ppbv  | 90     |
| 17) tert-Butyl alcohol         | 4.36 | 59   | 451272   | 12.971 | ppbv  | 99     |
| 18) 1,1-Dichloroethene         | 4.35 | 96   | 940027   | 13.227 | ppbv  | 100    |
| 19) Isopropyl Alcohol          | 4.02 | 45   | 1398586  | 12.370 | ppbv  | 99     |
| 20) Methylene Chloride         | 4.41 | 84   | 812034   | 11.860 | ppbv  | 98     |
| 21) Allyl Chloride             | 4.48 | 41   | 1524910  | 14.984 | ppbv  | 99     |
| 22) trans-1,2-Dichloroethene   | 4.96 | 96   | 994835   | 14.122 | ppbv  | 96     |
| 23) Vinyl Acetate              | 5.16 | 43   | 3163864  | 15.143 | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.09 | 63   | 2370890  | 13.365 | ppbv  | 100    |
| 25) Ethyl Acetate              | 5.77 | 43   | 3677742  | 13.248 | ppbv  | 100    |
| 26) Hexane                     | 5.78 | 57   | 1728587  | 13.224 | ppbv  | 99     |
| 27) Carbon Disulfide           | 4.62 | 76   | 2491109  | 15.453 | ppbv  | 99     |
| 28) Methyl tert-Butyl Ether    | 5.11 | 73   | 2965997  | 14.537 | ppbv  | 100    |
| 29) Chloroform                 | 5.85 | 83   | 2832234  | 12.714 | ppbv  | 99     |
| 30) Cyclohexane                | 7.25 | 84   | 1476436  | 15.149 | ppbv  | 97     |
| 31) cis-1,2-Dichloroethene     | 5.65 | 61   | 1757255  | 14.478 | ppbv  | 90     |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97   | 2843401  | 12.577 | ppbv  | 99     |
| 34) 2-Butanone                 | 5.33 | 43   | 2314462  | 13.186 | ppbv  | 99     |
| 35) Carbon Tetrachloride       | 7.14 | 117  | 3089003  | 11.905 | ppbv  | 99     |
| 36) Benzene                    | 7.01 | 78   | 3453030  | 13.954 | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.42 | 62   | 2085169  | 12.069 | ppbv  | 99     |
| 38) Trichloroethene            | 7.96 | 130  | 1381902  | 13.575 | ppbv  | 94     |
| 39) 1,2-Dichloropropane        | 7.74 | 63   | 1249718  | 13.444 | ppbv  | 97     |
| 40) 1,4-Dioxane                | 7.95 | 88   | 478952   | 13.573 | ppbv  | 87     |
| 41) Tetrahydrofuran            | 6.15 | 42   | 1342543  | 15.028 | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.92 | 83   | 2991171  | 12.603 | ppbv  | 93     |
| 43) Methyl Methacrylate        | 8.14 | 69   | 1358981  | 14.636 | ppbv  | 99     |

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Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Quant Time: Jan 28 20:53:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012819AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 28 16:32:44 2019  
QLast Update : Mon Jan 28 16:32:44 2019  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 5567742  | 13.286 | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.42  | 75   | 1218036  | 10.538 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.84  | 75   | 2153848  | 16.327 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.61  | 97   | 1413418  | 13.014 | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.45 | 129  | 2605812  | 13.580 | ppbv   | 100      |
| 49) Bromoform                 | 13.21 | 173  | 2214404  | 13.208 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.87  | 43   | 3210955  | 14.437 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.27 | 43   | 2451642  | 15.235 | ppbv   | 100      |
| 52) Tetrachloroethene         | 11.38 | 164  | 1216032  | 13.903 | ppbv   | 98       |
| 53) Toluene                   | 9.95  | 91   | 3954750  | 14.913 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 2198884  | 14.052 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 1827072  | 11.041 | ppbv # | 71       |
| 57) Chlorobenzene             | 12.30 | 112  | 3042583  | 11.382 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.87 | 91   | 5332480  | 13.187 | ppbv   | 98       |
| 59) m/p-Xylene                | 13.15 | 91   | 3765731  | 10.067 | ppbv # | 100      |
| 60) o-Xylene                  | 13.86 | 91   | 4349129  | 11.876 | ppbv   | 100      |
| 61) Styrene                   | 13.69 | 104  | 3337884  | 14.285 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.83 | 105  | 6248361  | 11.989 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.84 | 83   | 2980874  | 10.958 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.73 | 120  | 1632200  | 12.328 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.91 | 119  | 5430507  | 11.764 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.16 | 91   | 3378684  | 12.842 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.82 | 105  | 258631   | 0.391  | ppbv # | 59       |
| 69) p-Isopropyltoluene        | 17.82 | 119  | 6341963  | 11.828 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.72 | 91   | 6266582  | 11.626 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.62 | 91   | 4607541  | 12.466 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 16.01 | 105  | 5108124  | 12.693 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.16 | 105  | 4853795  | 12.224 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.93 | 105  | 4898585  | 11.139 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.17 | 146  | 2790802  | 10.781 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.31 | 146  | 2765762  | 11.729 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.99 | 146  | 2695470  | 11.563 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.55 | 225  | 1751121  | 9.780  | ppbv   | 100      |
| 79) Naphthalene               | 22.41 | 128  | 4180982  | 11.287 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.12 | 142  | 1487612  | 13.234 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.14 | 180  | 1988363  | 11.111 | ppbv   | 100      |

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

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Sample : VSTDICC015

Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC015

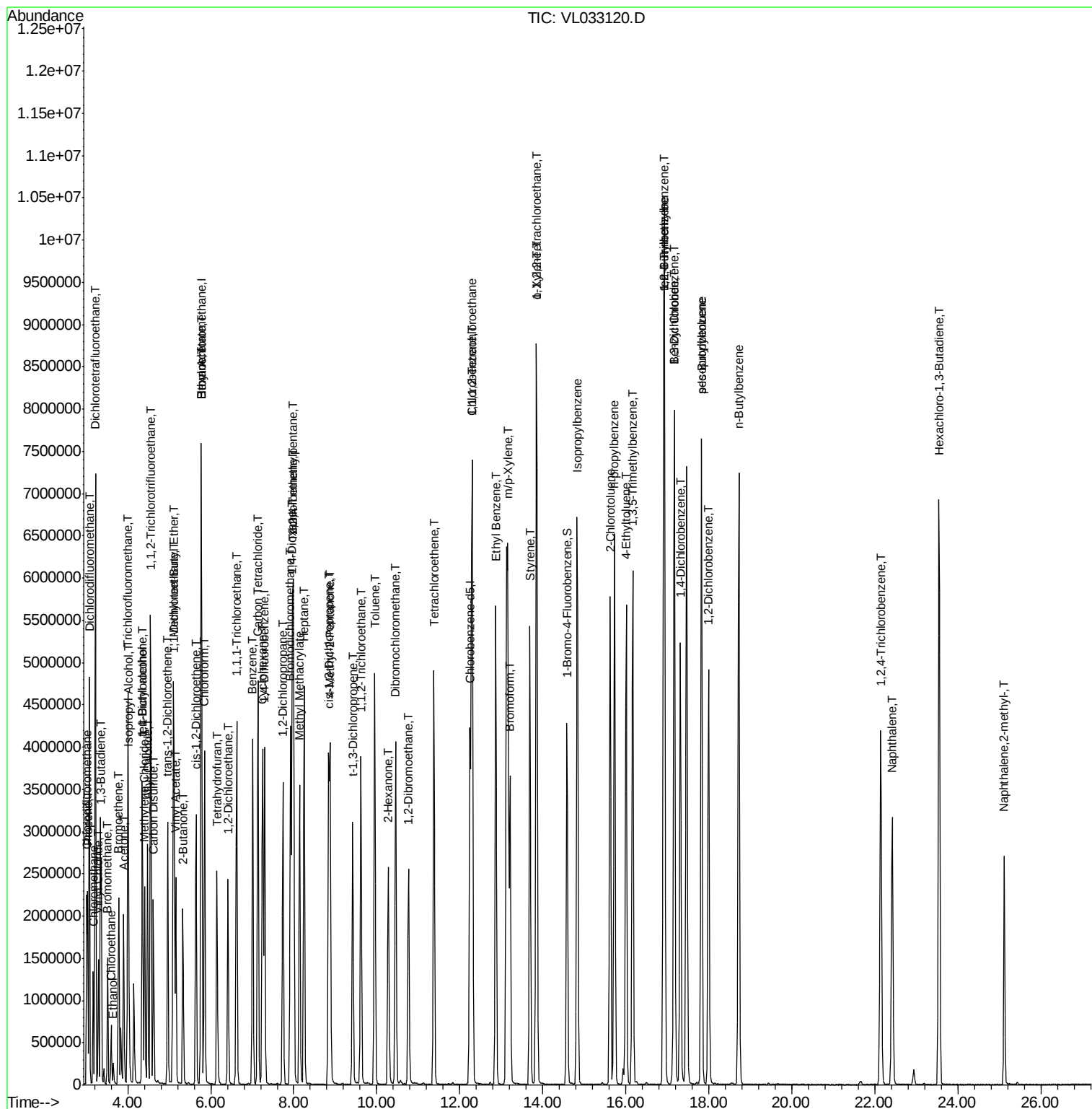
Quant Time: Jan 28 20:53:25 2019

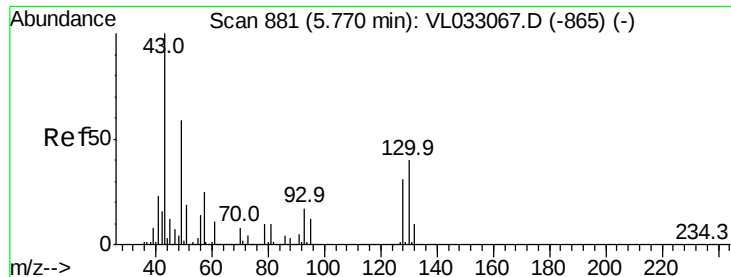
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_L\METHODS\VL012819AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Jan 28 16:32:44 2019

QLast Update : Mon Jan 28 16:32:44 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

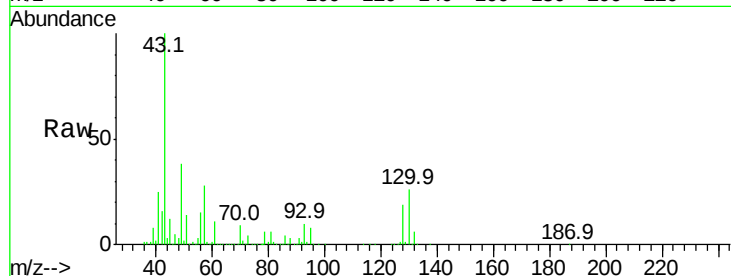
Tgt Ion: 49 Resp: 1186528

Ion Ratio Lower Upper

49 100

128 52.8 25.9 77.7

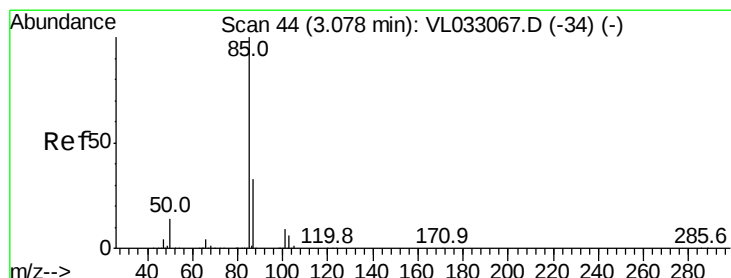
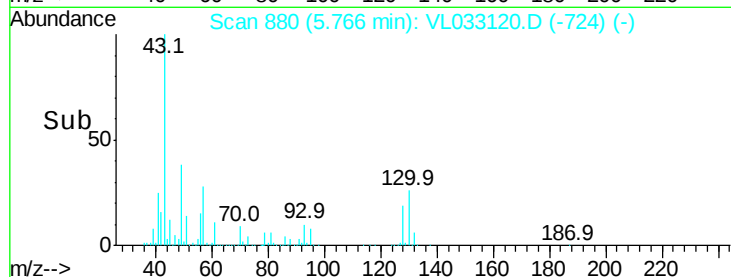
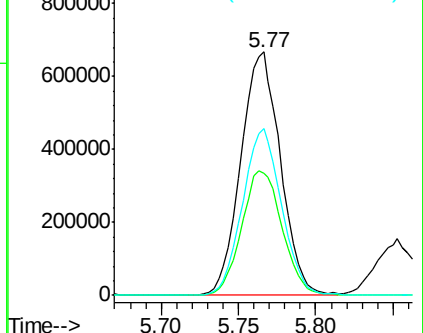
130 67.9 32.9 98.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 15.491 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033120.D

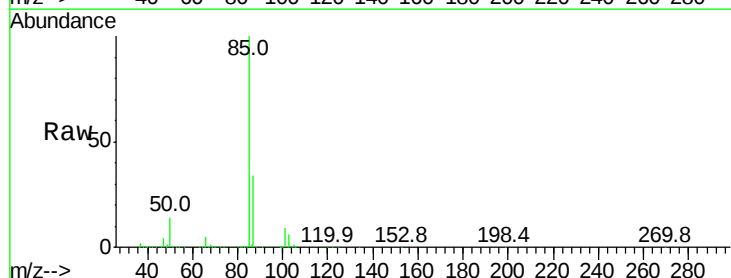
Acq: 28 Jan 2019 20:09

Tgt Ion: 85 Resp: 3420526

Ion Ratio Lower Upper

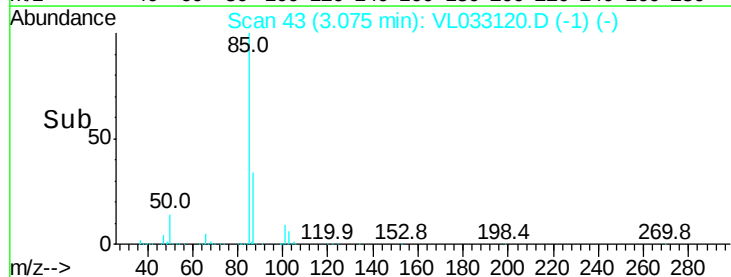
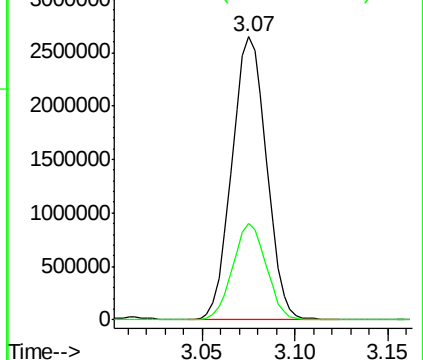
85 100

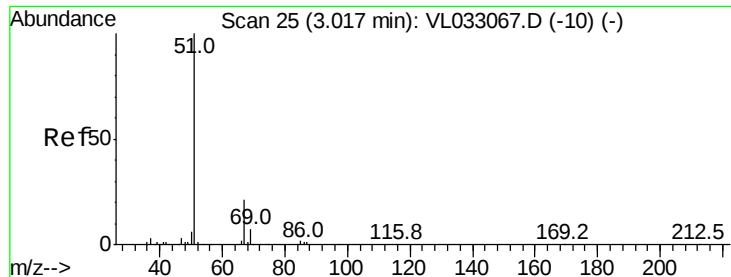
87 34.1 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

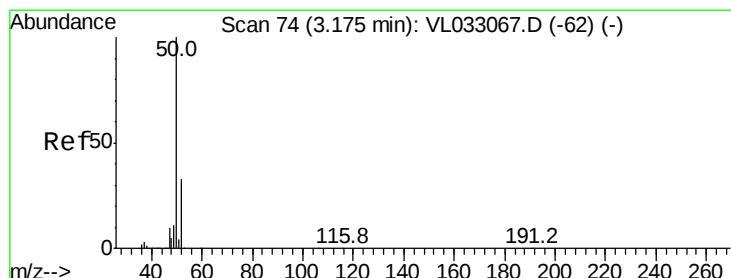
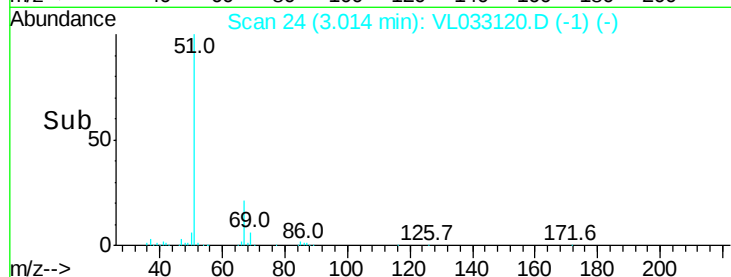
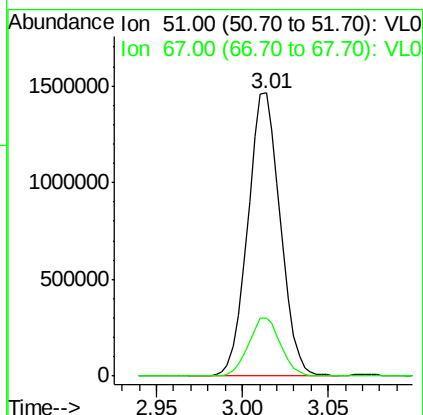
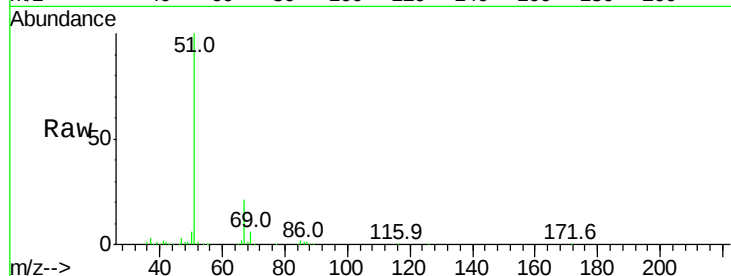




#3  
 Chlorodifluoromethane  
 Concen: 14.255 ppbv  
 RT: 3.01 min Scan# 24  
 Delta R.T. -0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

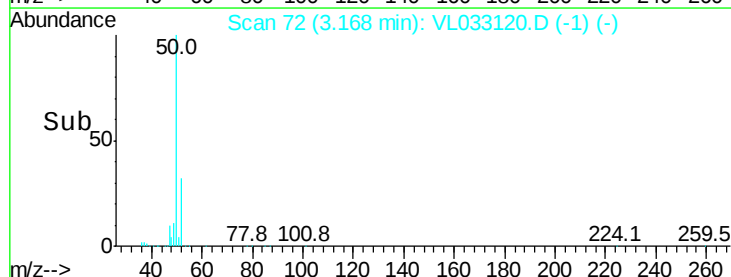
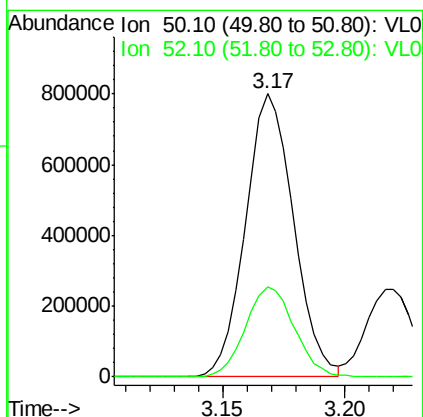
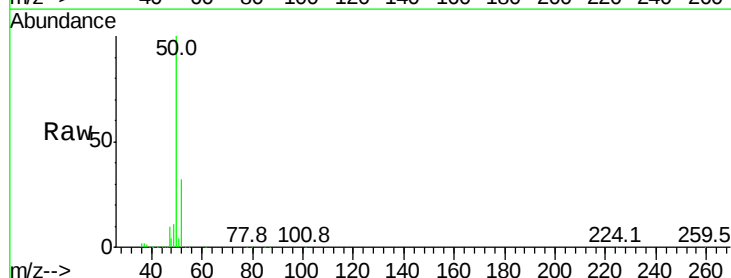
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

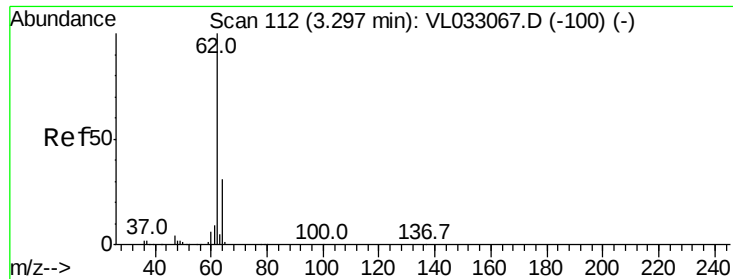
Tgt Ion: 51 Resp: 1914649  
 Ion Ratio Lower Upper  
 51 100  
 67 20.5 16.2 24.2



#4  
 Chloromethane  
 Concen: 14.182 ppbv  
 RT: 3.17 min Scan# 72  
 Delta R.T. -0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Tgt Ion: 50 Resp: 1091002  
 Ion Ratio Lower Upper  
 50 100  
 52 31.6 27.0 40.4





#5

Vinyl Chloride

Concen: 14.750 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

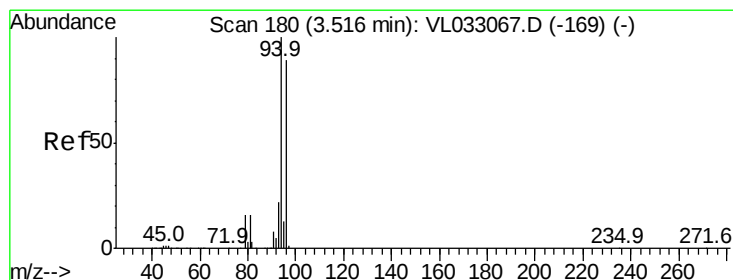
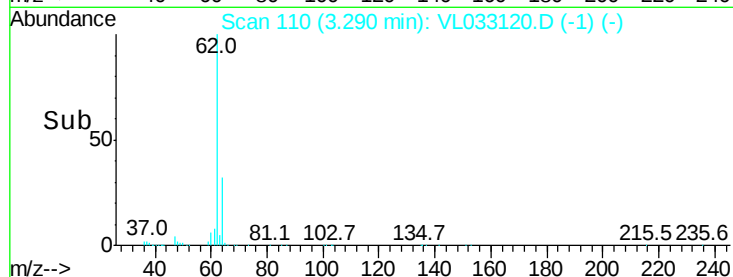
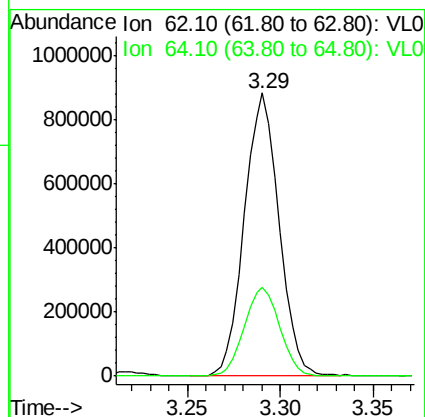
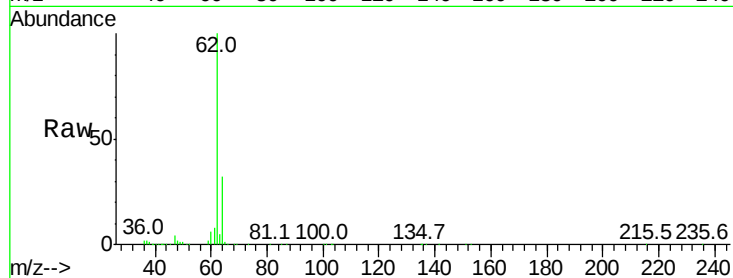
VSTDIC015

Tgt Ion: 62 Resp: 1145975

Ion Ratio Lower Upper

62 100

64 31.6 25.7 38.5



#6

Bromomethane

Concen: 14.509 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033120.D

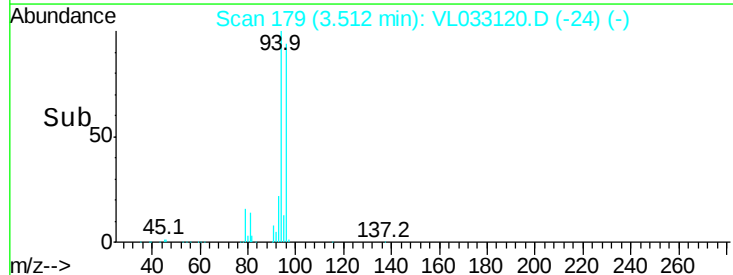
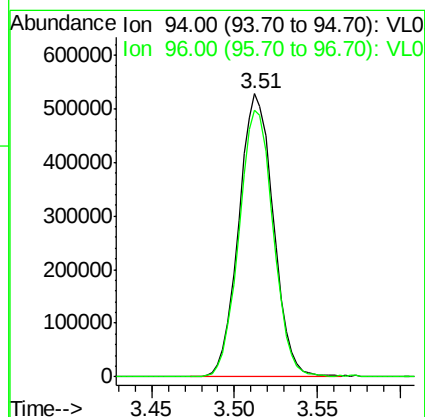
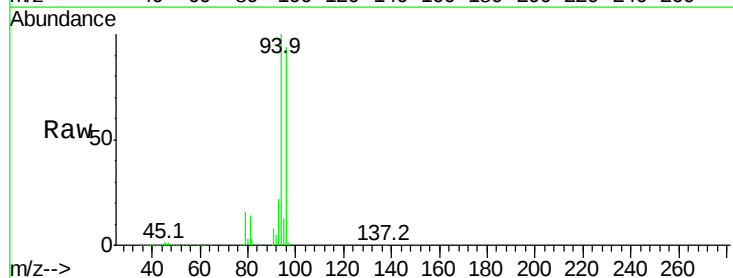
Acq: 28 Jan 2019 20:09

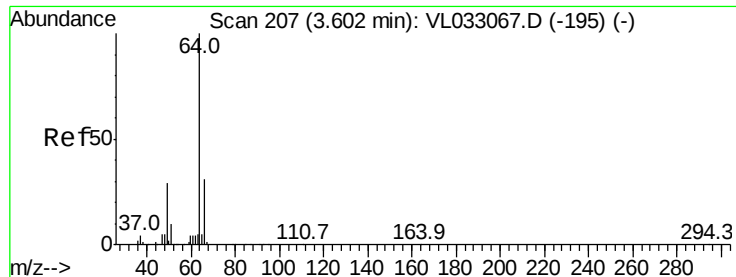
Tgt Ion: 94 Resp: 765765

Ion Ratio Lower Upper

94 100

96 94.4 75.4 113.2





#7

Chloroethane

Concen: 14.581 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

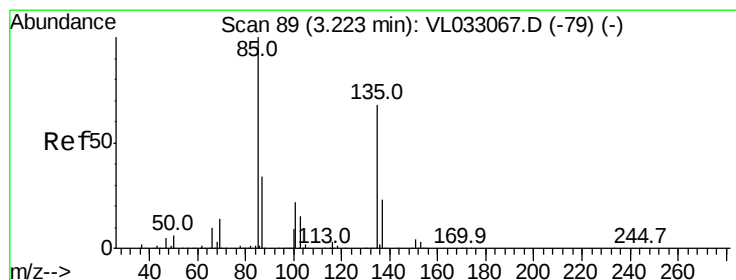
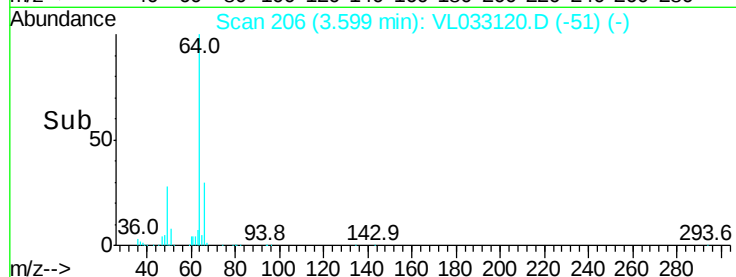
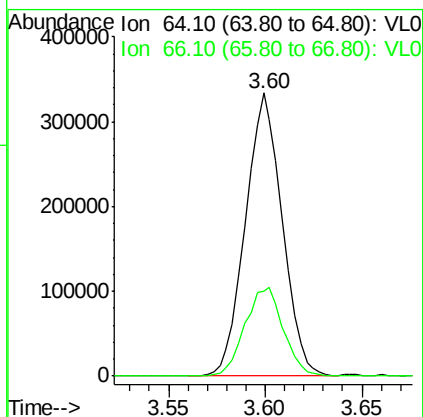
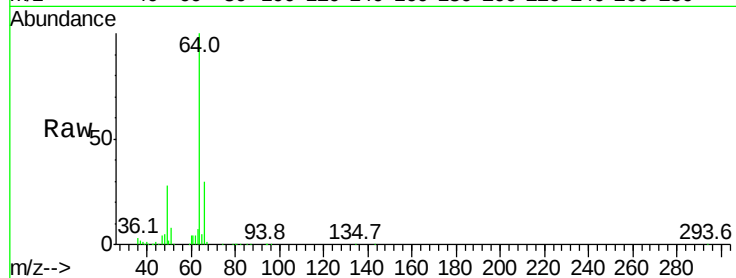
VSTDIC015

Tgt Ion: 64 Resp: 443001

Ion Ratio Lower Upper

64 100

66 30.1 24.0 36.0



#8

Dichlorotetrafluoroethane

Concen: 14.296 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033120.D

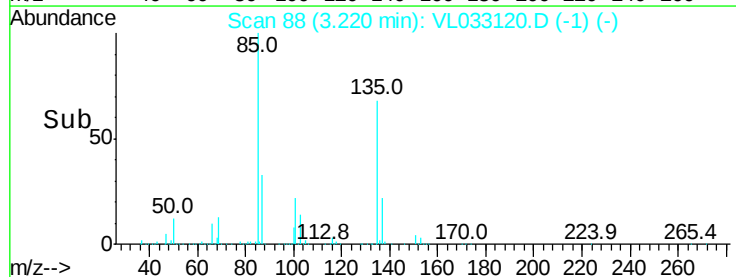
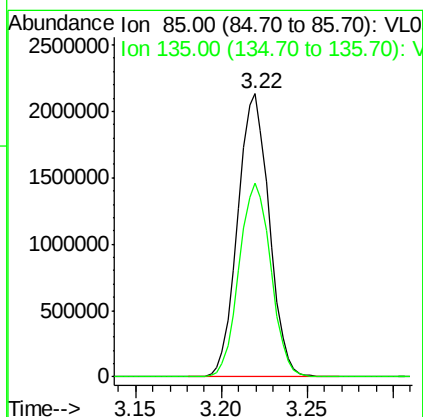
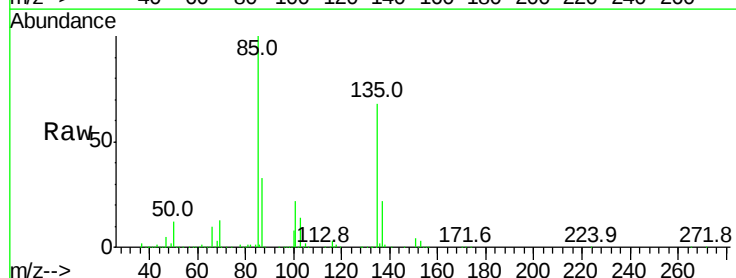
Acq: 28 Jan 2019 20:09

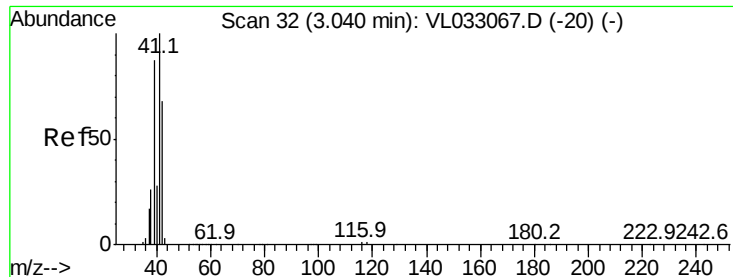
Tgt Ion: 85 Resp: 2719100

Ion Ratio Lower Upper

85 100

135 69.3 54.8 82.2





#9

Propene

Concen: 16.611 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

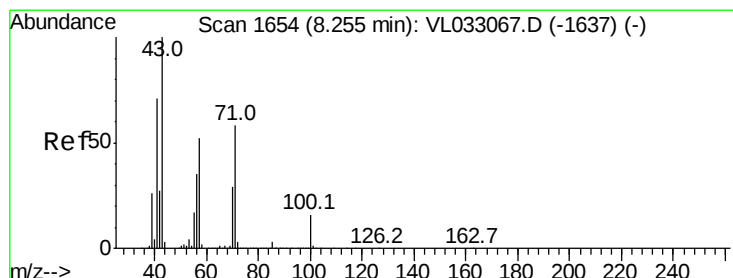
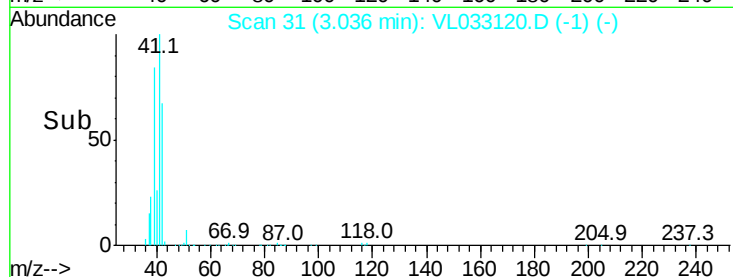
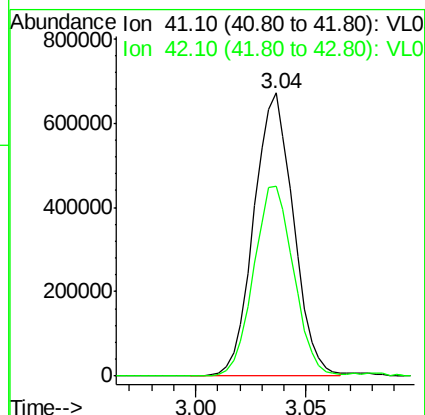
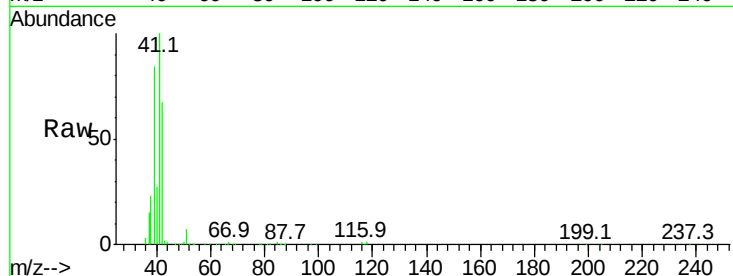
VSTDIC015

Tgt Ion: 41 Resp: 833466

Ion Ratio Lower Upper

41 100

42 69.4 54.6 82.0



#10

Heptane

Concen: 14.255 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033120.D

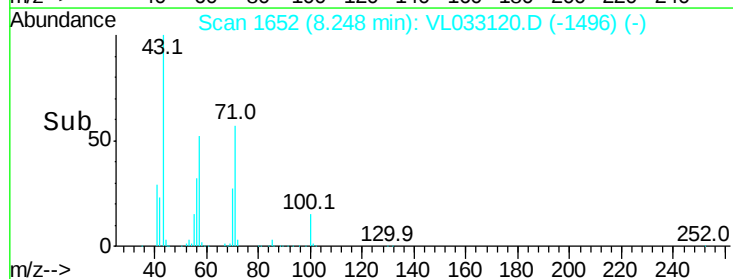
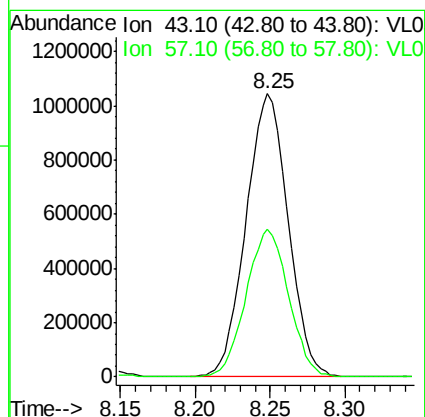
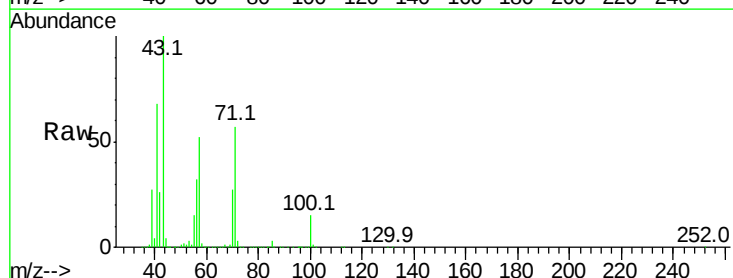
Acq: 28 Jan 2019 20:09

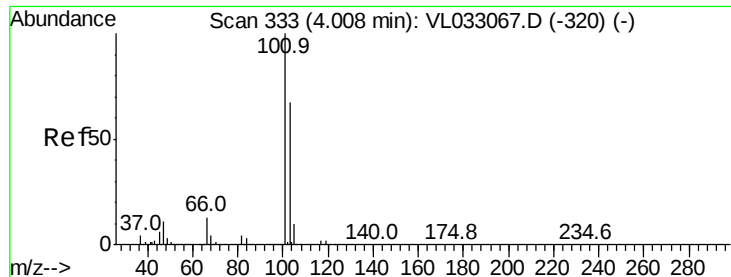
Tgt Ion: 43 Resp: 2036361

Ion Ratio Lower Upper

43 100

57 52.8 42.2 63.2





#11

Trichlorofluoromethane

Concen: 12.232 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

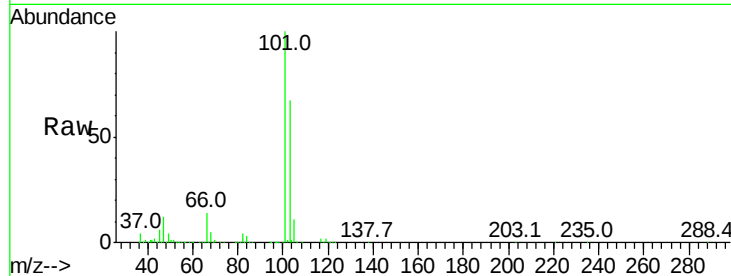
VSTDIC015

Tgt Ion:101 Resp: 2984575

Ion Ratio Lower Upper

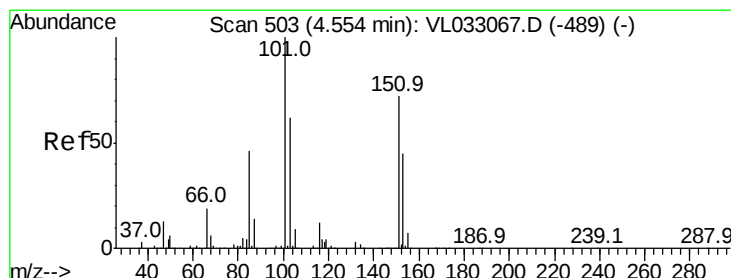
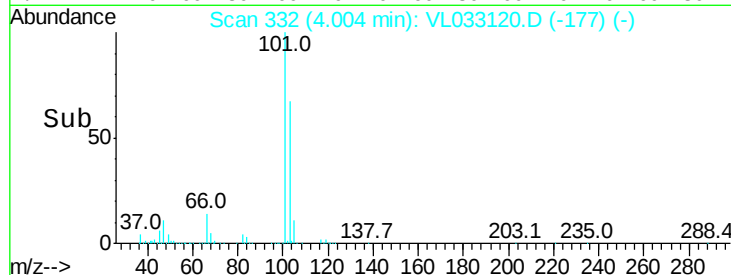
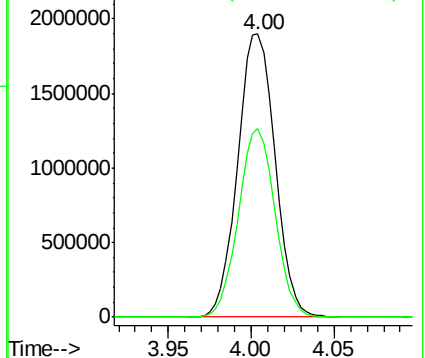
101 100

103 66.7 49.4 74.0



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: 13.289 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033120.D

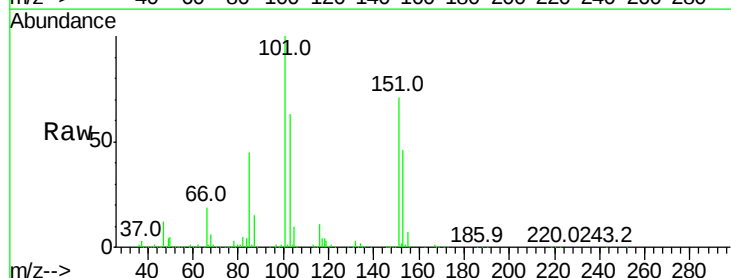
Acq: 28 Jan 2019 20:09

Tgt Ion:101 Resp: 2050361

Ion Ratio Lower Upper

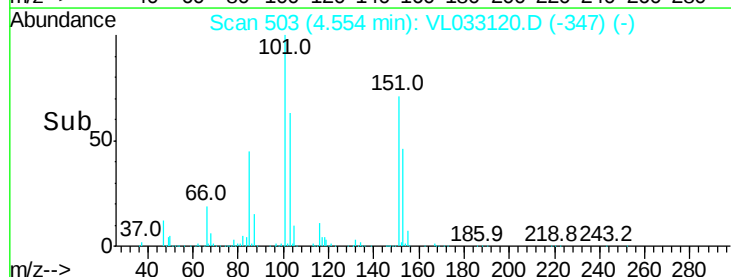
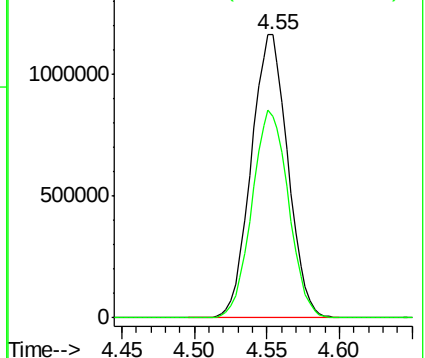
101 100

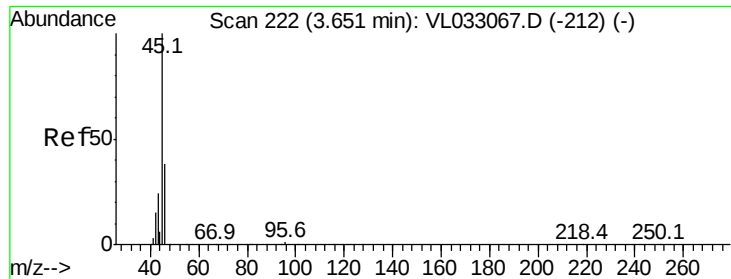
151 73.3 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 11.624 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

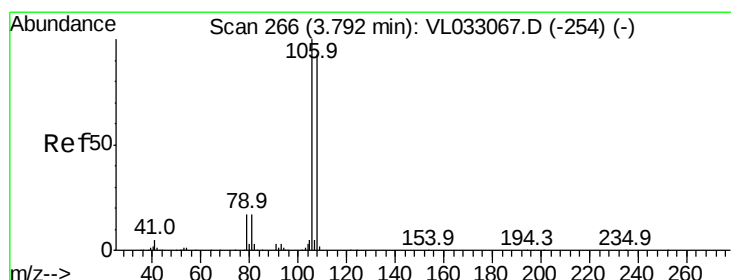
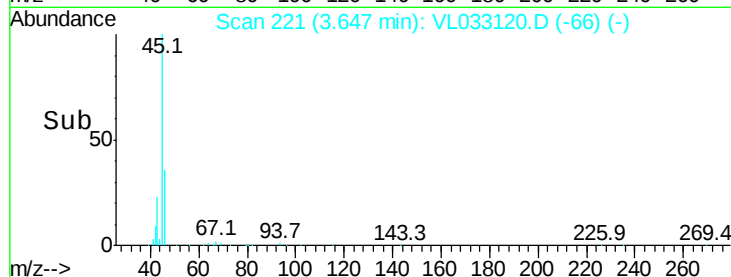
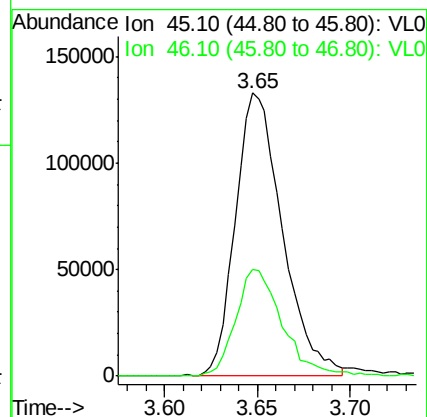
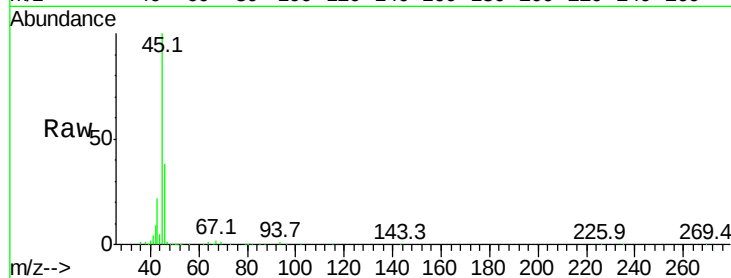
VSTDIC015

Tgt Ion: 45 Resp: 232585

Ion Ratio Lower Upper

45 100

46 38.5 15.0 60.2



#14

Bromoethene

Concen: 14.674 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

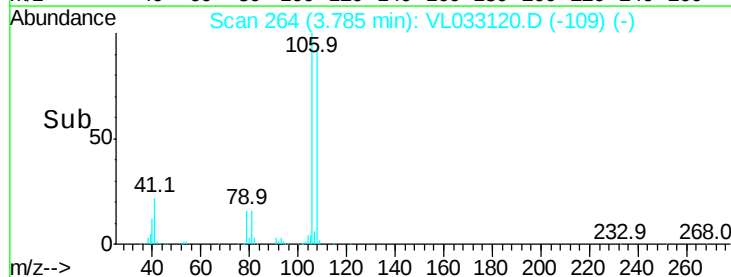
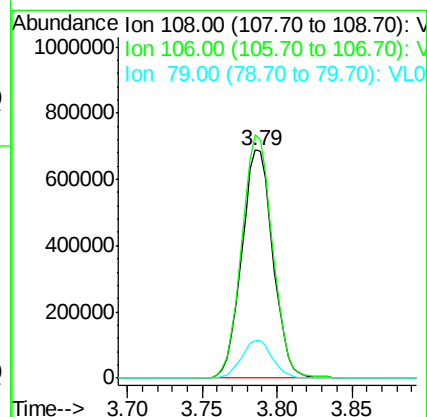
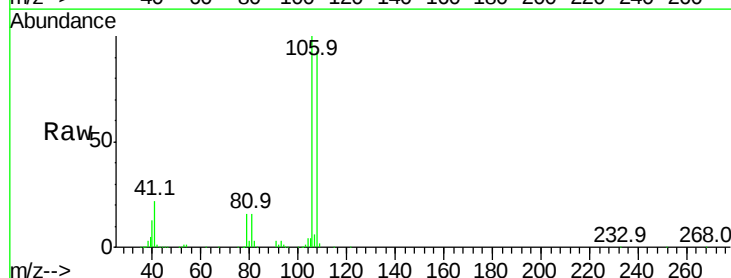
Tgt Ion: 108 Resp: 999959

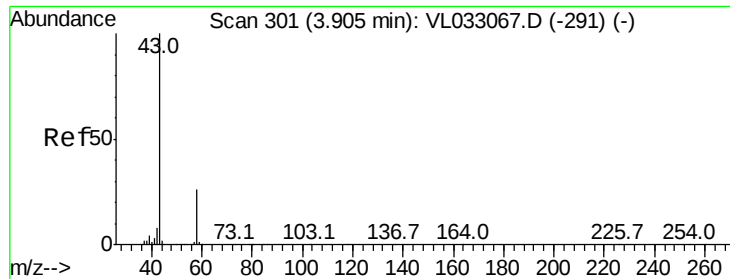
Ion Ratio Lower Upper

108 100

106 105.6 85.5 128.3

79 16.9 13.8 20.6





#15

Acetone

Concen: 12.040 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

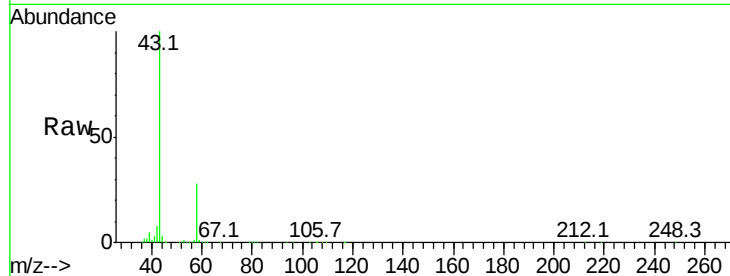
VSTDIC015

Tgt Ion: 43 Resp: 1977322

Ion Ratio Lower Upper

43 100

58 26.9 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

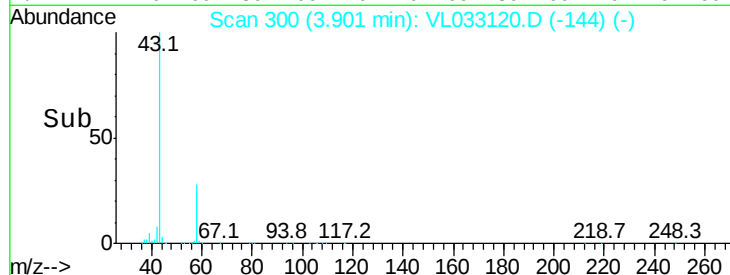
1500000

1000000

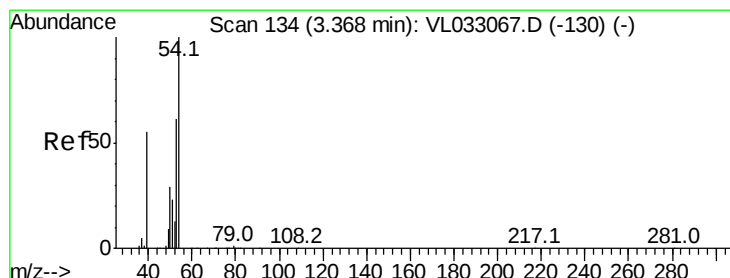
500000

0

Time-->



Time-->



#16

1,3-Butadiene

Concen: 15.925 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033120.D

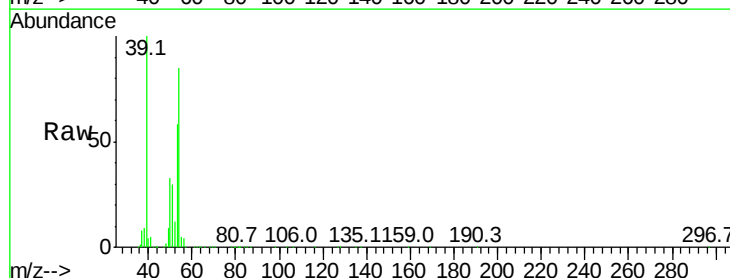
Acq: 28 Jan 2019 20:09

Tgt Ion: 39 Resp: 986235

Ion Ratio Lower Upper

39 100

54 90.1 80.0 120.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

800000

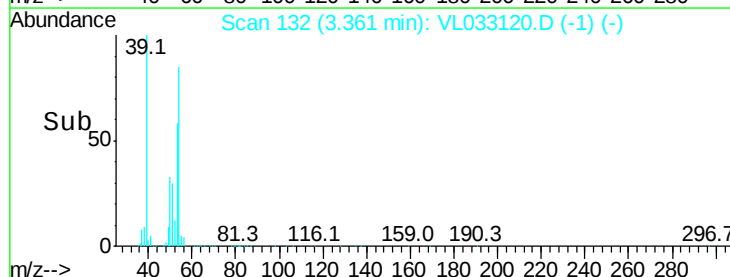
600000

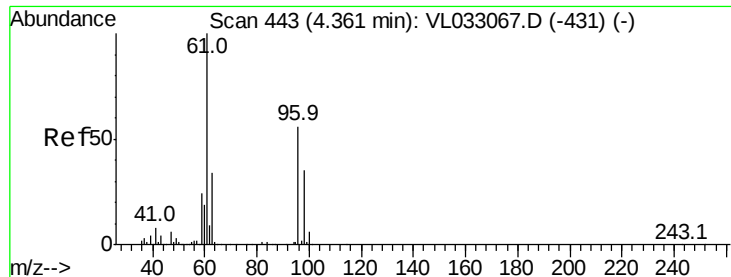
400000

200000

0

Time-->





#17

tert-Butyl alcohol

Concen: 12.971 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

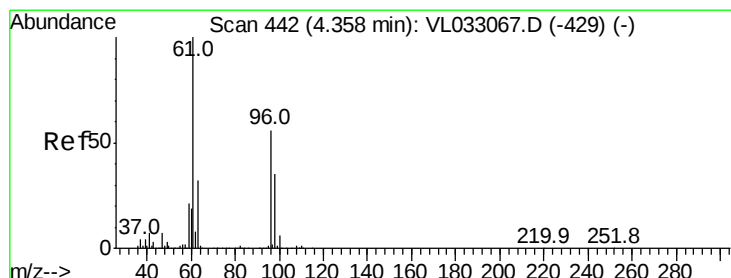
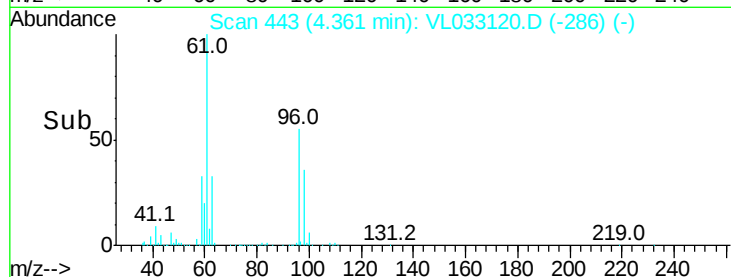
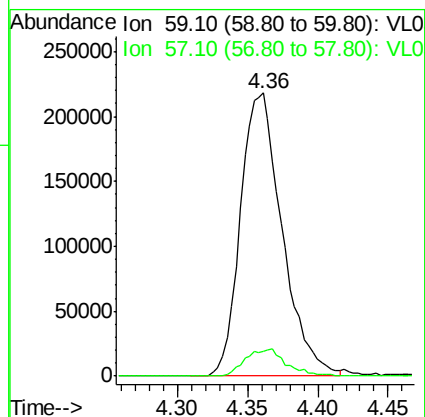
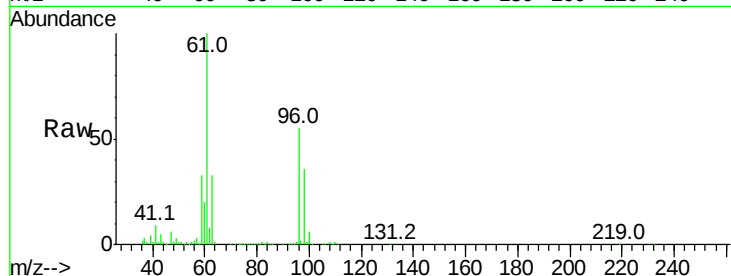
VSTDIC015

Tgt Ion: 59 Resp: 451272

Ion Ratio Lower Upper

59 100

57 9.5 7.4 11.2



#18

1,1-Dichloroethene

Concen: 13.227 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

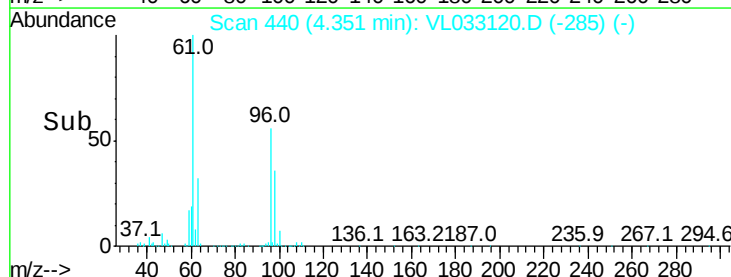
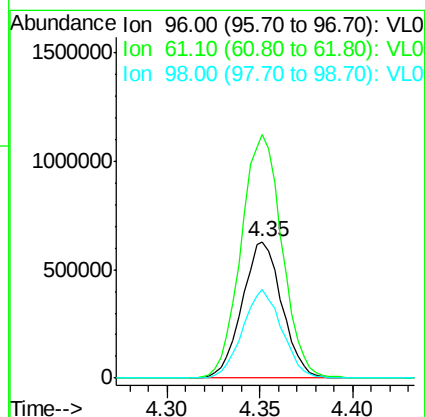
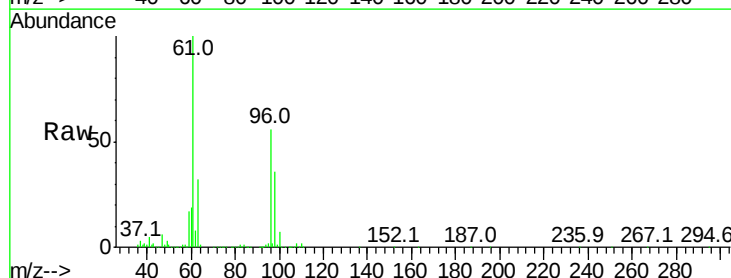
Tgt Ion: 96 Resp: 940027

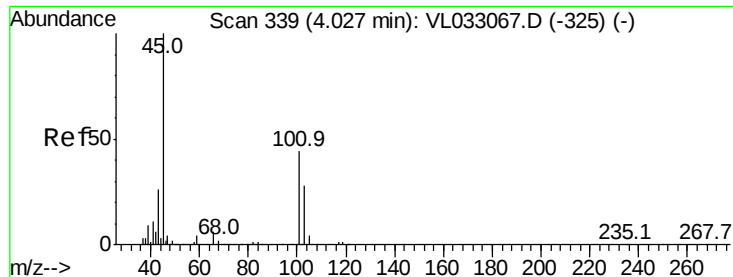
Ion Ratio Lower Upper

96 100

61 178.4 142.6 213.8

98 65.1 51.4 77.0



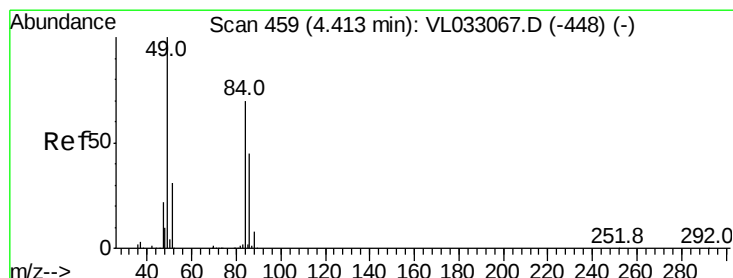
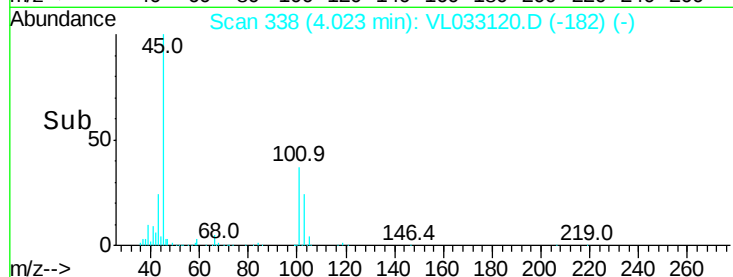
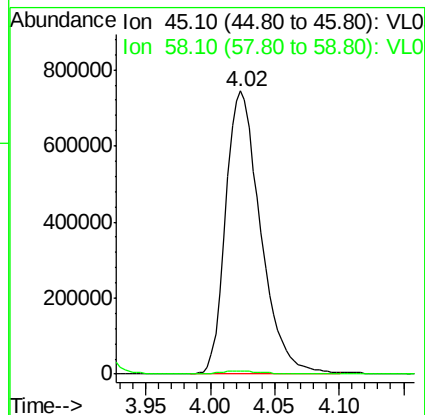
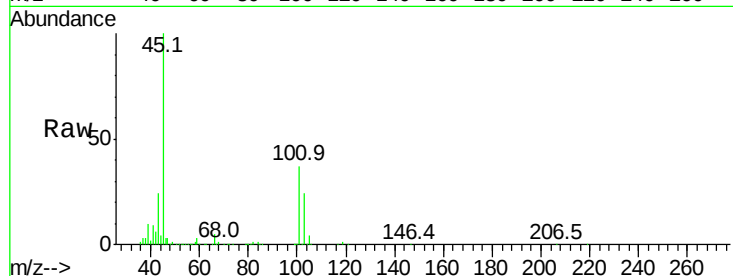


#19

Isopropyl Alcohol  
 Concen: 12.370 ppbv  
 RT: 4.02 min Scan# 338  
 Delta R.T. 0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

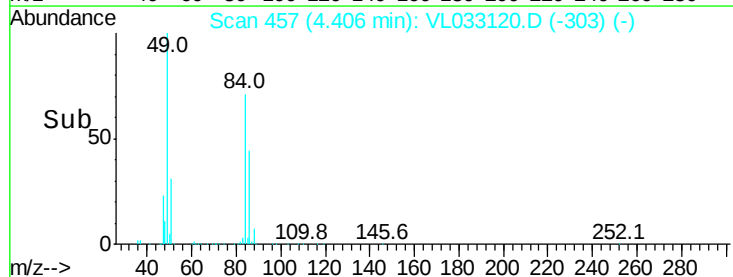
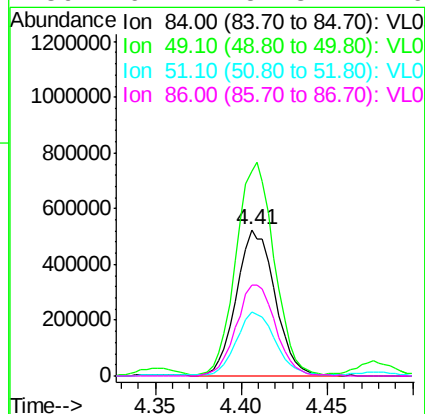
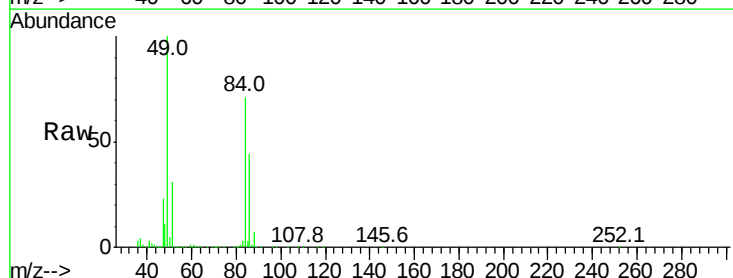
Tgt Ion: 45 Resp: 1398586  
 Ion Ratio Lower Upper  
 45 100  
 58 1.6 1.4 2.2

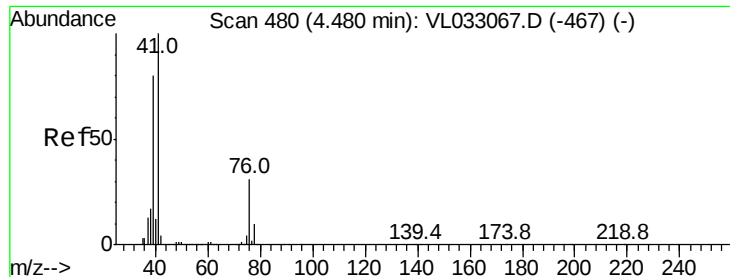


#20

Methylene Chloride  
 Concen: 11.860 ppbv  
 RT: 4.41 min Scan# 457  
 Delta R.T. -0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Tgt Ion: 84 Resp: 812034  
 Ion Ratio Lower Upper  
 84 100  
 49 140.2 113.8 170.6  
 51 43.2 34.5 51.7  
 86 62.1 51.8 77.6





#21

Allyl Chloride

Concen: 14.984 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

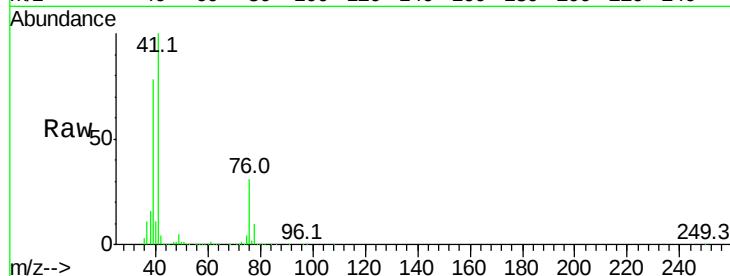
Tgt Ion: 41 Resp: 1524910

Ion Ratio Lower Upper

41 100

76 31.3 24.6 37.0

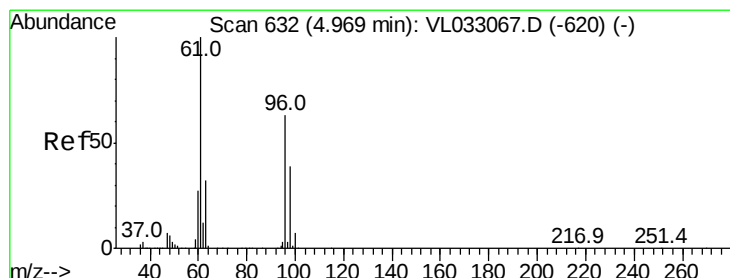
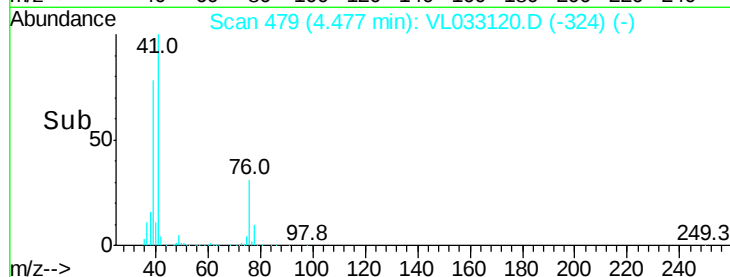
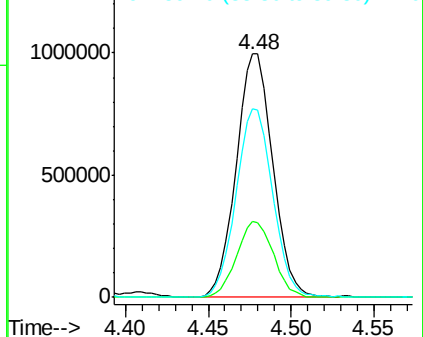
39 78.1 63.3 94.9



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: 14.122 ppbv

RT: 4.96 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

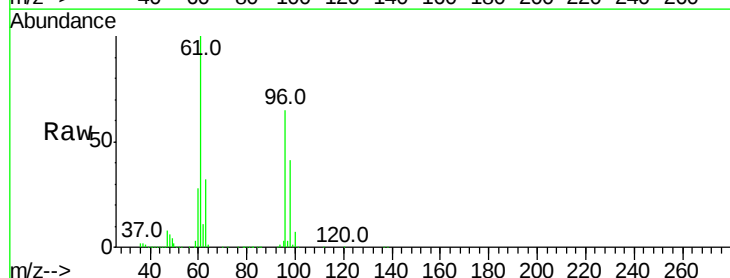
Tgt Ion: 96 Resp: 994835

Ion Ratio Lower Upper

96 100

61 153.6 127.6 191.4

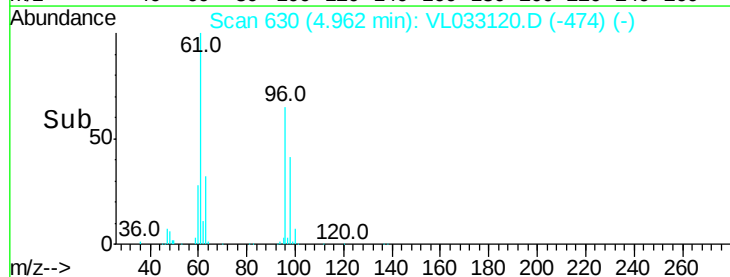
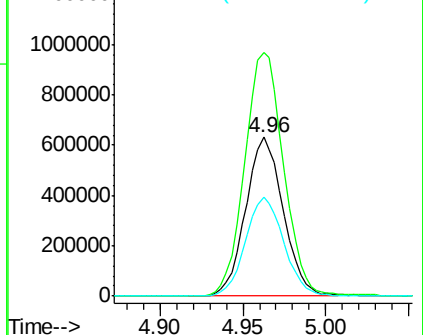
98 62.2 48.6 73.0

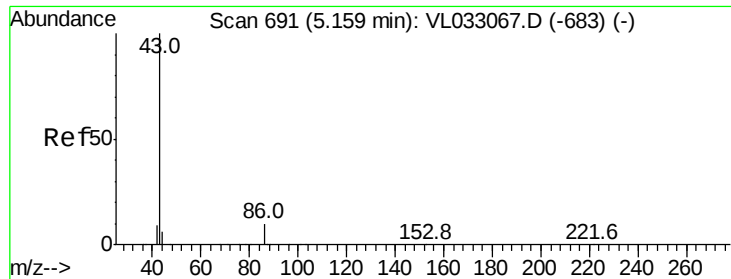


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 15.143 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3163864

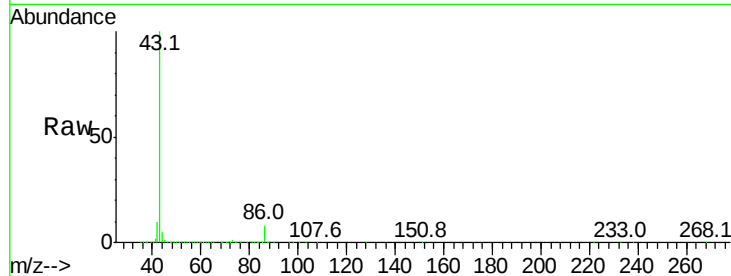
Ion Ratio Lower Upper

43 100

86 8.2 6.7 10.1

42 9.7 8.1 12.1

44 5.3 4.3 6.5

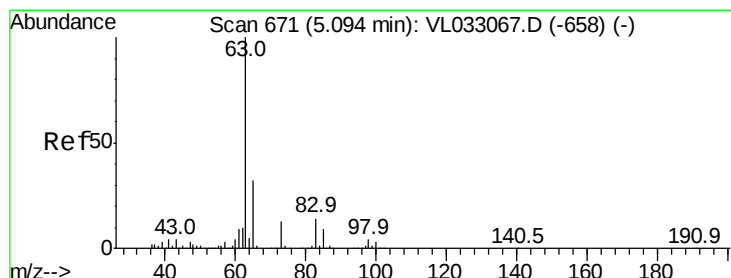
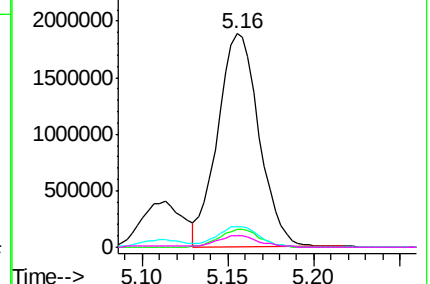
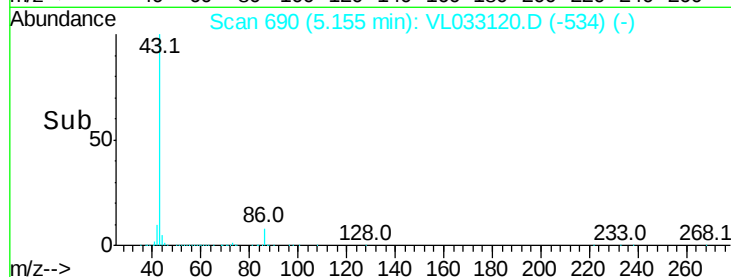


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 13.365 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

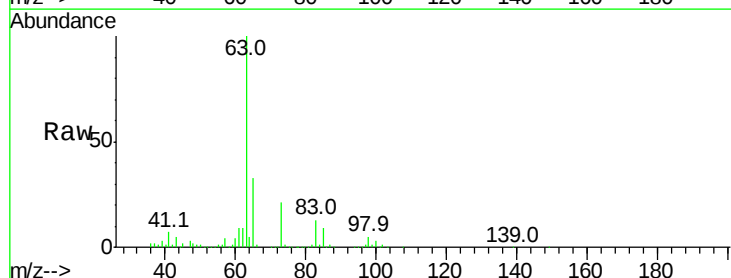
Tgt Ion: 63 Resp: 2370890

Ion Ratio Lower Upper

63 100

98 4.9 2.5 7.4

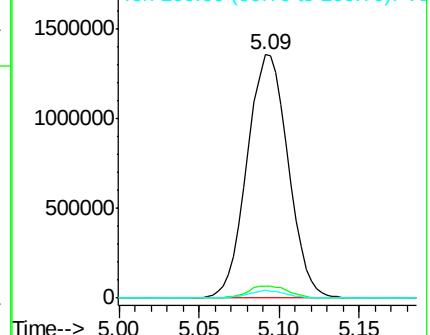
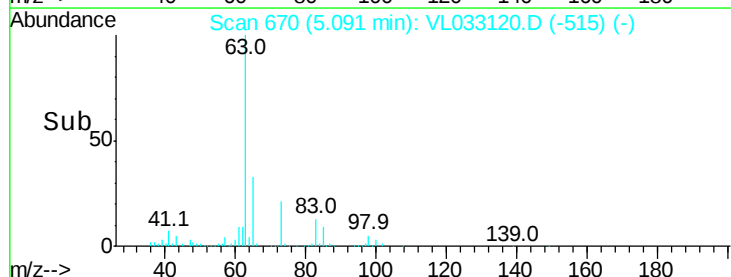
100 3.2 1.4 4.2

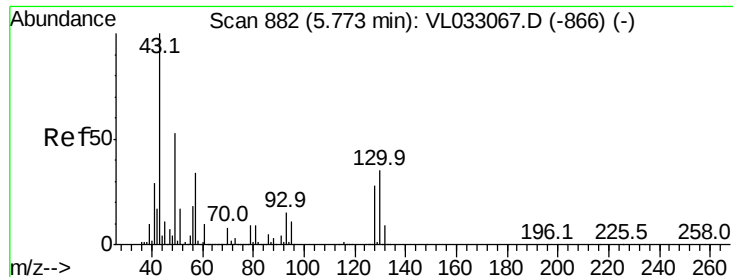


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 13.248 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3677742

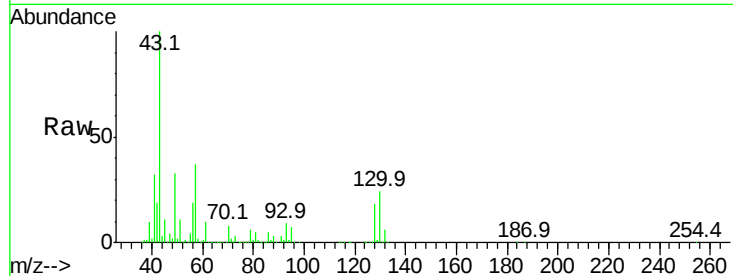
Ion Ratio Lower Upper

43 100

45 9.8 8.0 12.0

61 9.8 7.6 11.4

70 7.4 5.9 8.9

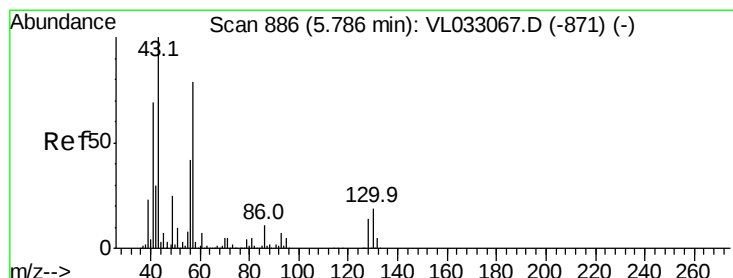
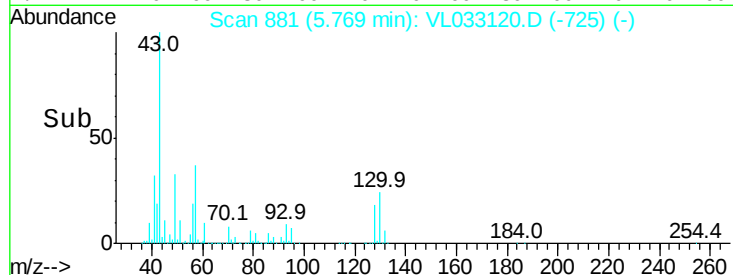
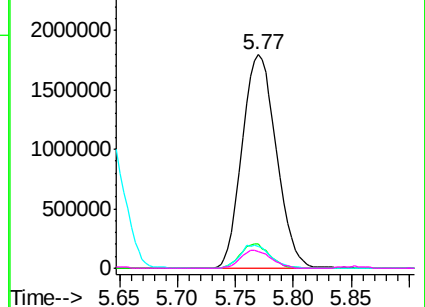


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 13.224 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Tgt Ion: 57 Resp: 1728587

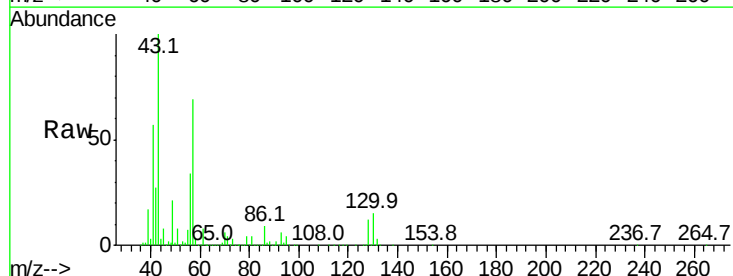
Ion Ratio Lower Upper

57 100

41 85.6 69.9 104.9

43 213.2 169.0 253.4

56 52.2 42.0 63.0

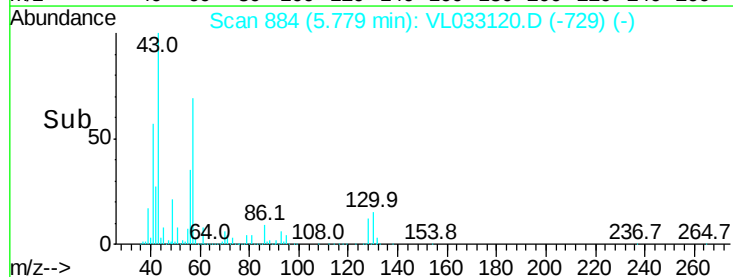
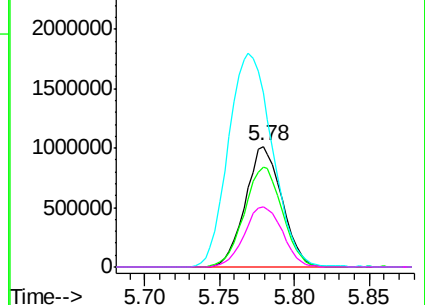


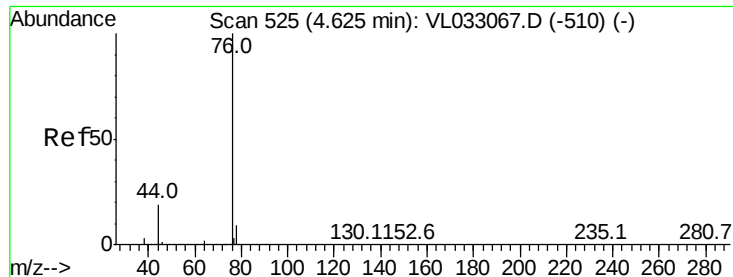
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 15.453 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

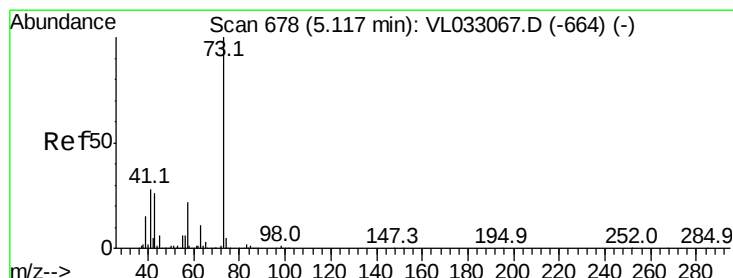
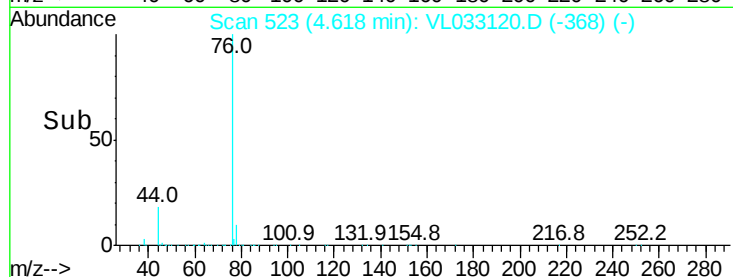
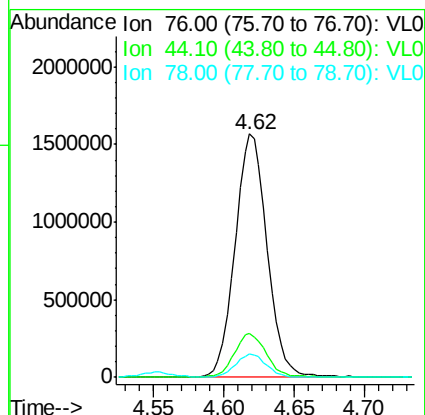
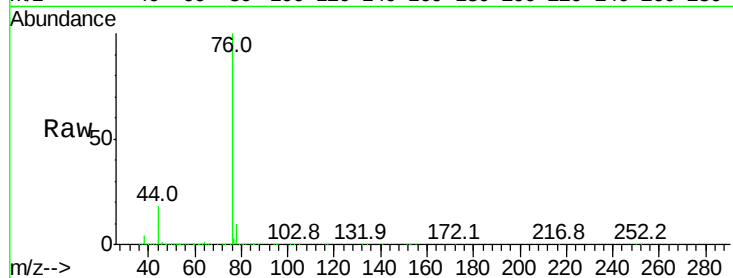
Tgt Ion: 76 Resp: 2491109

Ion Ratio Lower Upper

76 100

44 18.1 15.0 22.4

78 9.3 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 14.537 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033120.D

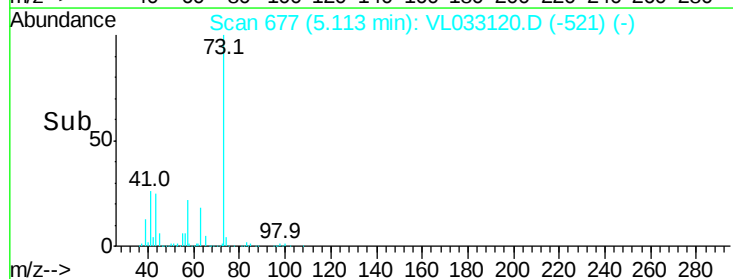
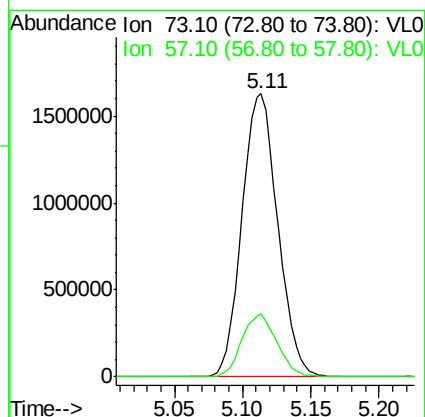
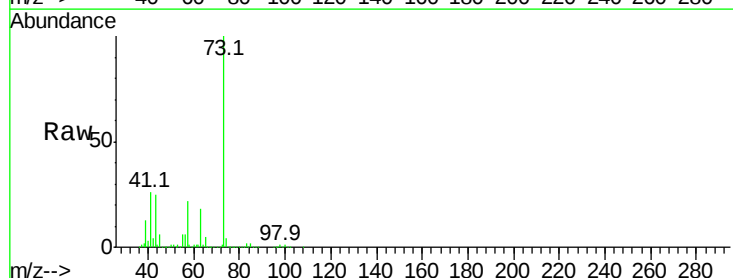
Acq: 28 Jan 2019 20:09

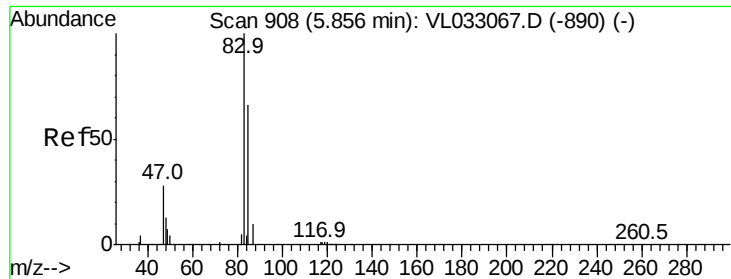
Tgt Ion: 73 Resp: 2965997

Ion Ratio Lower Upper

73 100

57 22.1 17.6 26.4





#29

Chloroform

Concen: 12.714 ppbv

RT: 5.85 min Scan# 907

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

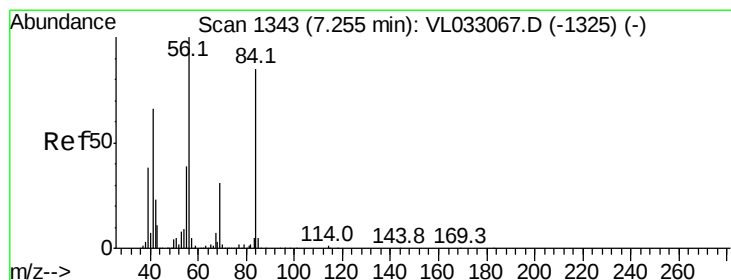
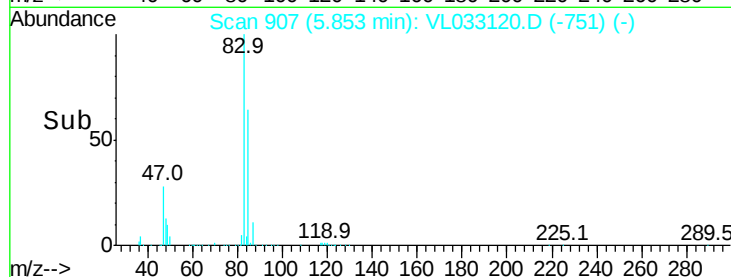
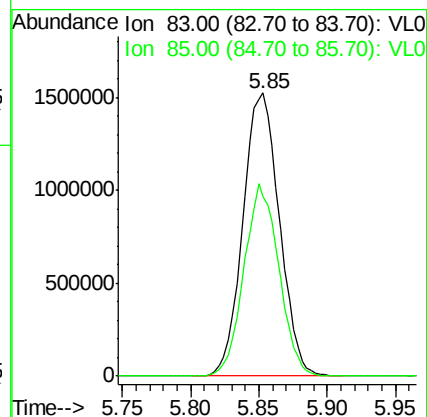
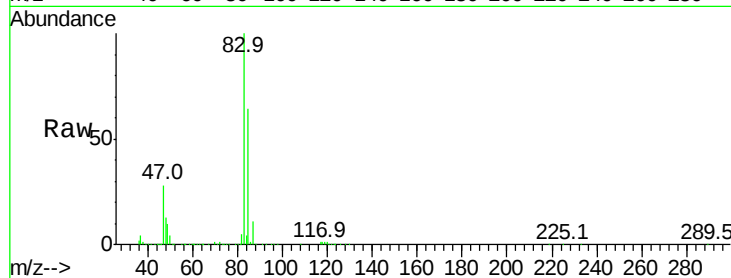
VSTDIC015

Tgt Ion: 83 Resp: 2832234

Ion Ratio Lower Upper

83 100

85 63.6 50.4 75.6



#30

Cyclohexane

Concen: 15.149 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

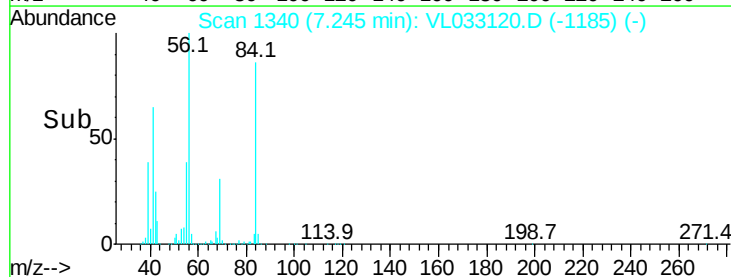
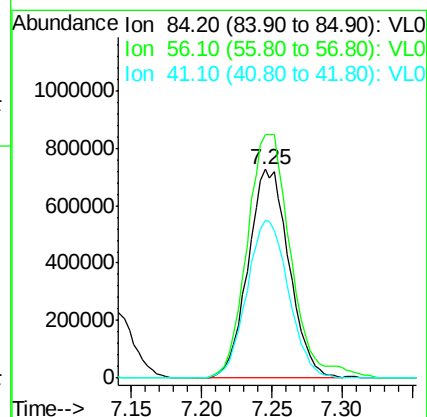
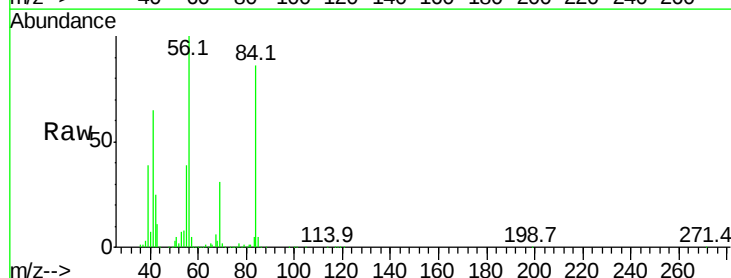
Tgt Ion: 84 Resp: 1476436

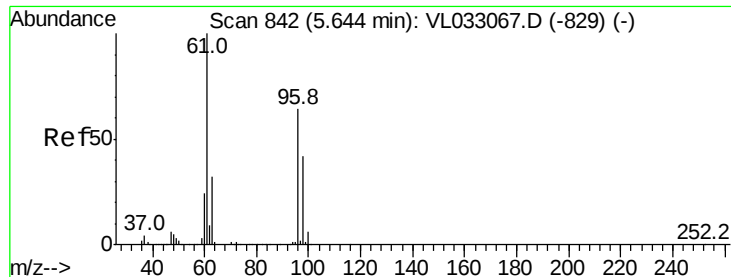
Ion Ratio Lower Upper

84 100

56 124.3 102.4 153.6

41 77.1 62.7 94.1



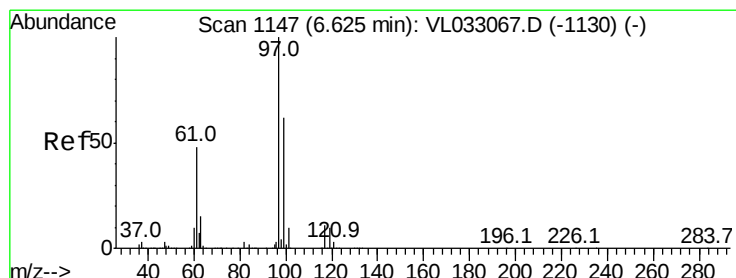
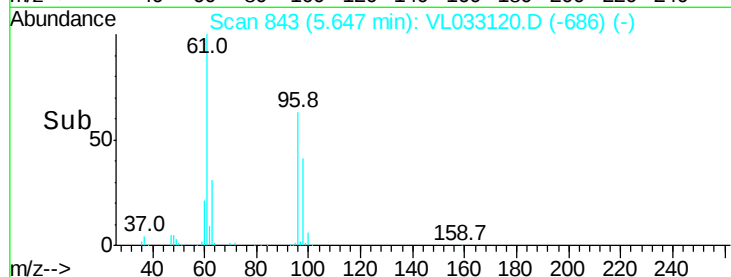
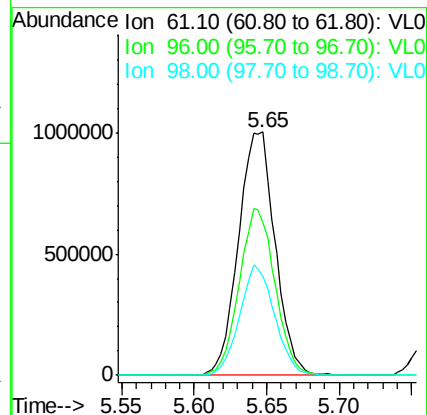
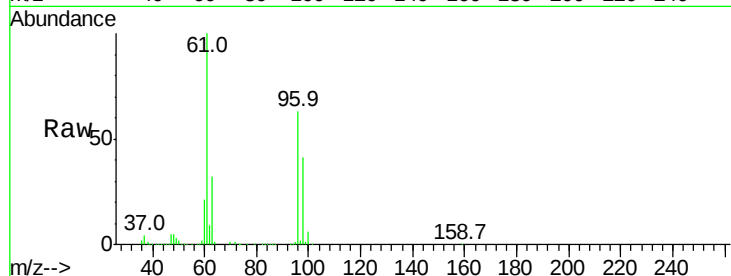


#31

cis-1,2-Dichloroethene  
Concen: 14.478 ppbv  
RT: 5.65 min Scan# 843  
Delta R.T. 0.01 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

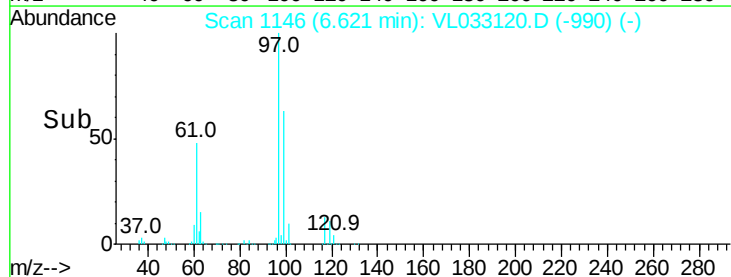
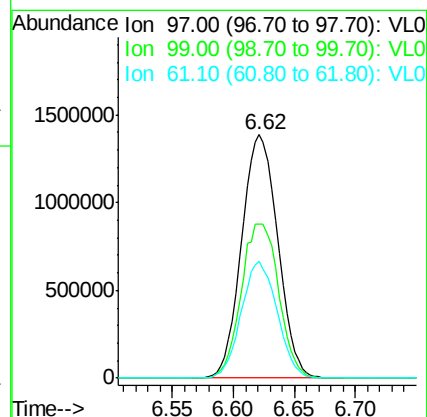
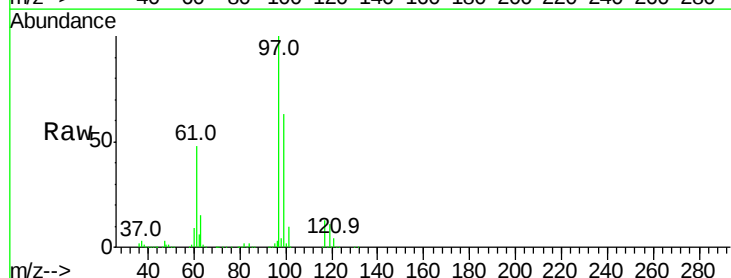
Tgt Ion: 61 Resp: 1757255  
Ion Ratio Lower Upper  
61 100  
96 62.8 57.6 86.4  
98 40.6 37.0 55.4

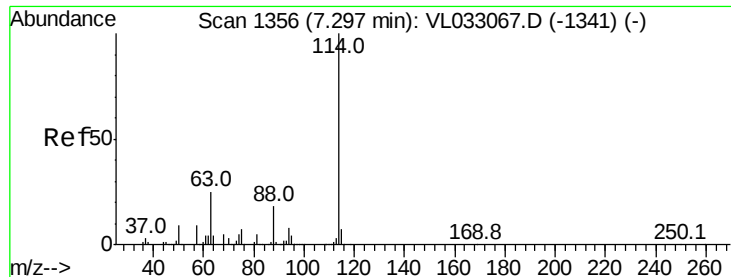


#32

1,1,1-Trichloroethane  
Concen: 12.577 ppbv  
RT: 6.62 min Scan# 1146  
Delta R.T. 0.00 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Tgt Ion: 97 Resp: 2843401  
Ion Ratio Lower Upper  
97 100  
99 65.8 51.7 77.5  
61 47.6 38.6 57.8

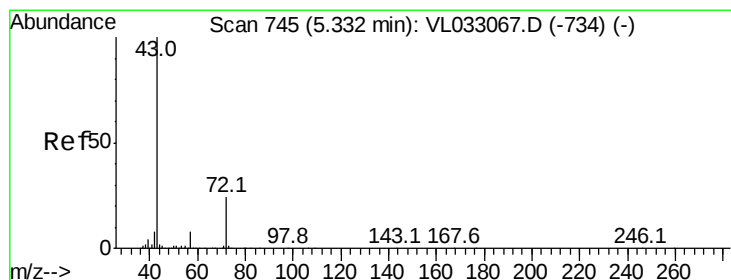
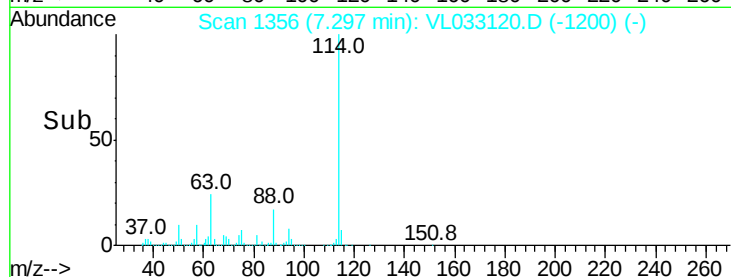
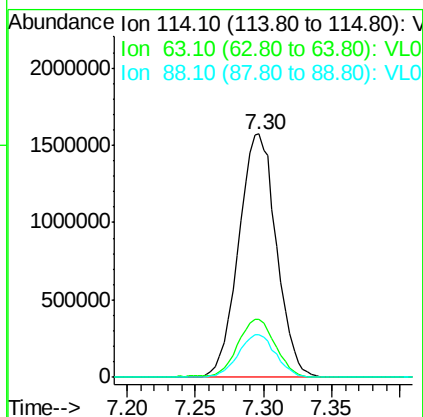
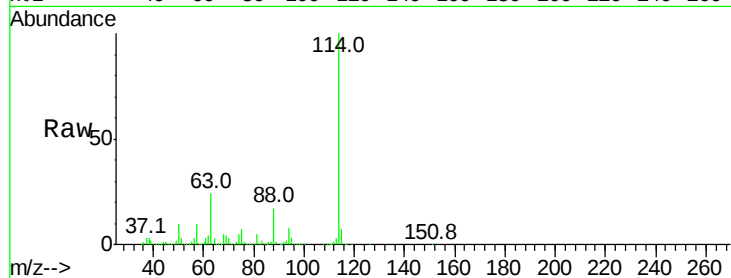




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1356  
 Delta R.T. 0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

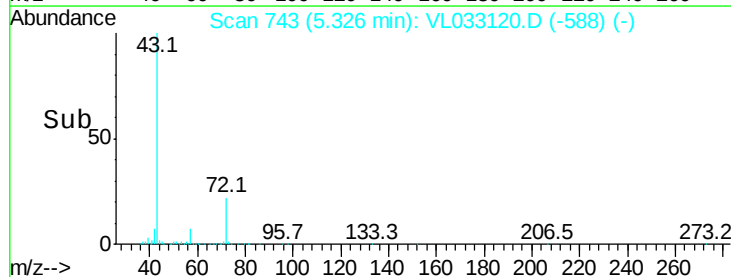
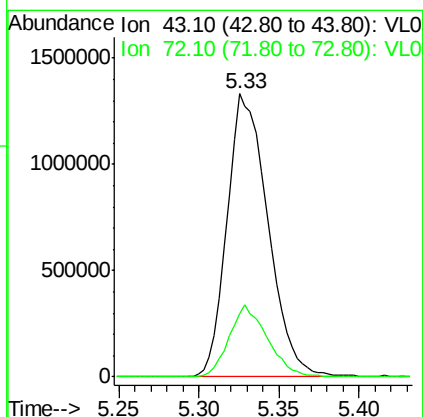
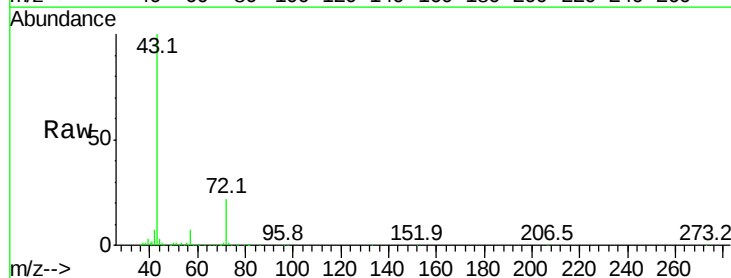
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

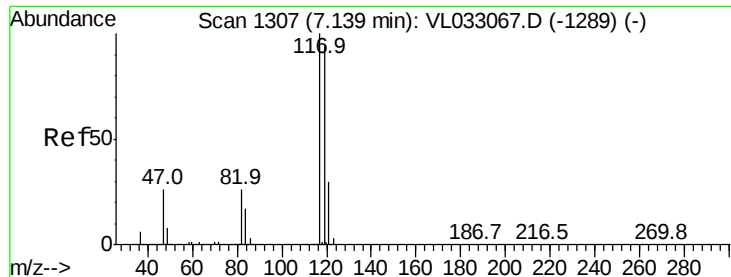
Tgt Ion:114 Resp: 3020843  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 19.8 29.8  
 88 17.4 14.2 21.2



#34  
 2-Butanone  
 Concen: 13.186 ppbv  
 RT: 5.33 min Scan# 743  
 Delta R.T. -0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Tgt Ion: 43 Resp: 2314462  
 Ion Ratio Lower Upper  
 43 100  
 72 23.8 18.7 28.1





#35

Carbon Tetrachloride

Concen: 11.905 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

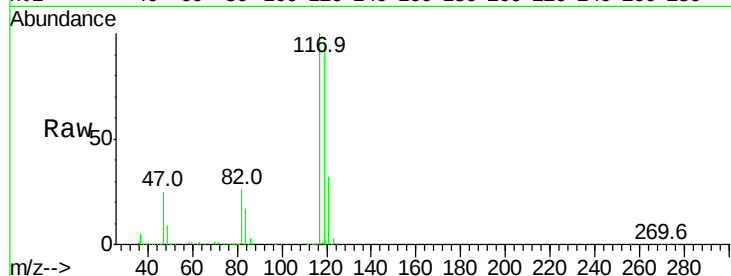
Tgt Ion:117 Resp: 3089003

Ion Ratio Lower Upper

117 100

119 95.6 75.8 113.6

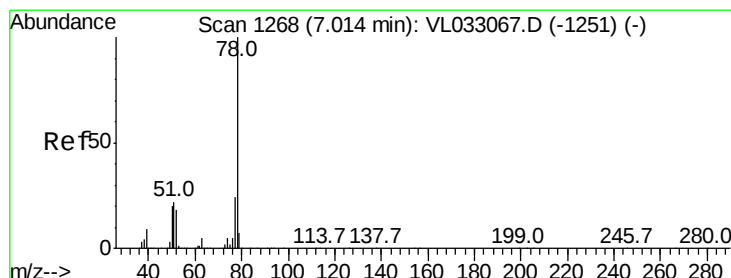
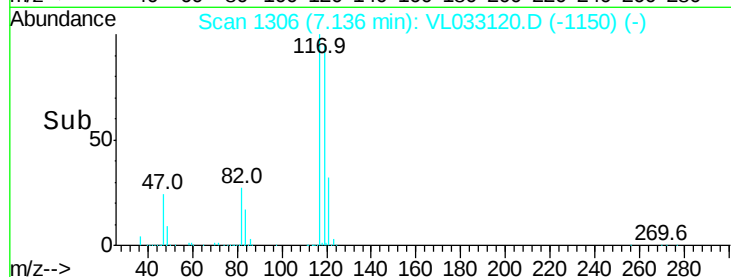
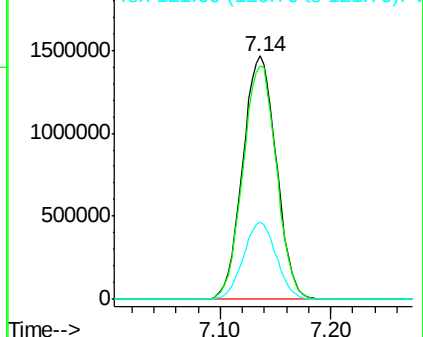
121 31.7 24.6 36.8



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: 13.954 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

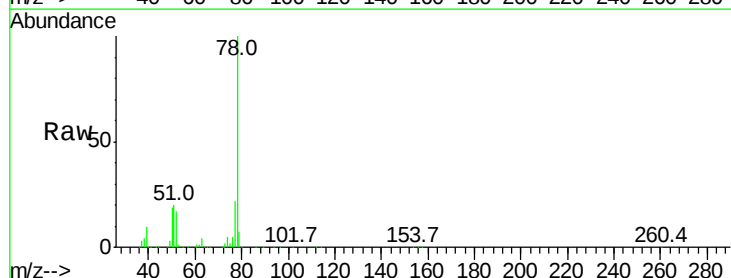
Tgt Ion: 78 Resp: 3453030

Ion Ratio Lower Upper

78 100

77 22.0 18.5 27.7

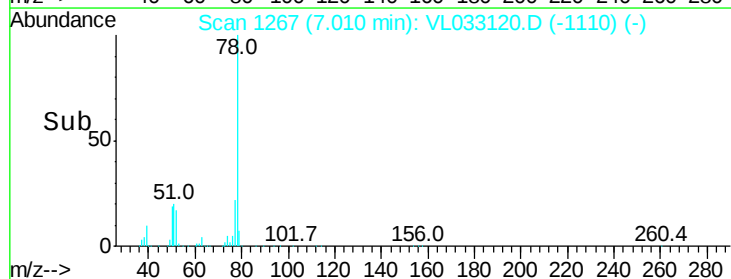
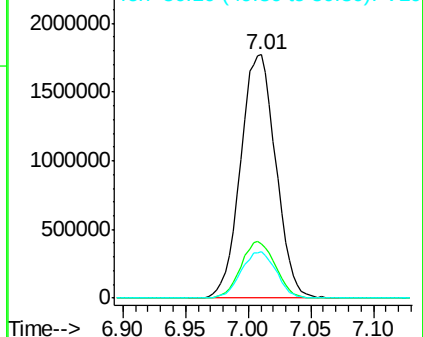
50 19.3 15.4 23.2

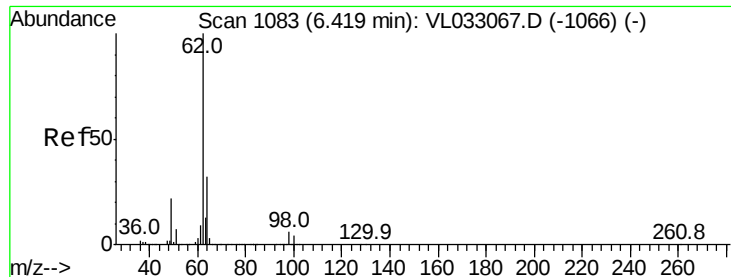


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 12.069 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

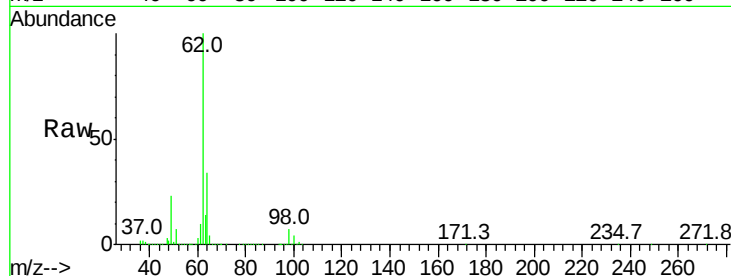
VSTDIC015

Tgt Ion: 62 Resp: 2085169

Ion Ratio Lower Upper

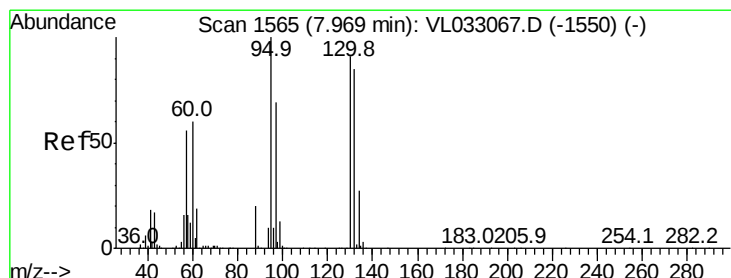
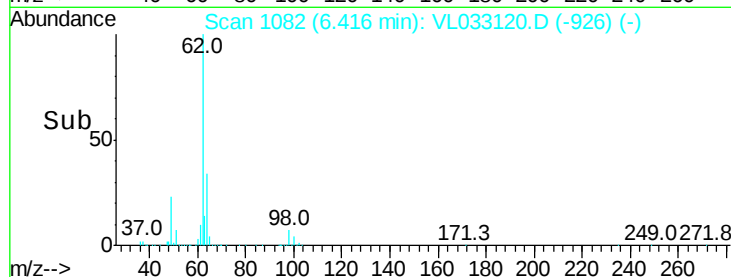
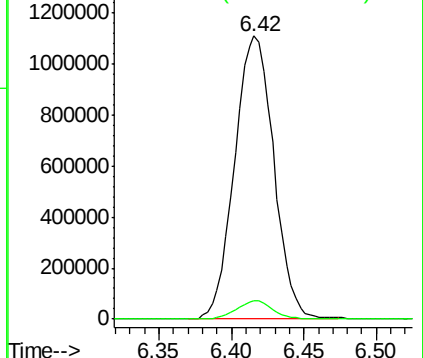
62 100

98 6.1 4.6 7.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 13.575 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Tgt Ion: 130 Resp: 1381902

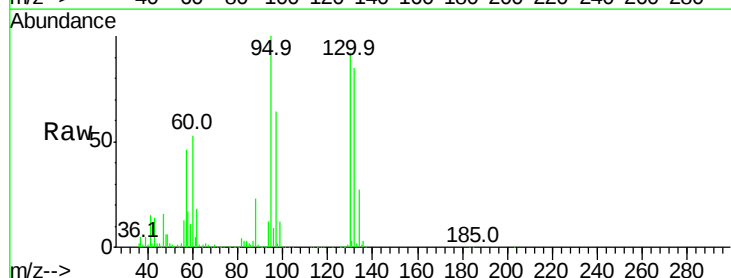
Ion Ratio Lower Upper

130 100

95 109.1 94.0 141.0

132 93.2 79.7 119.5

97 70.2 58.4 87.6

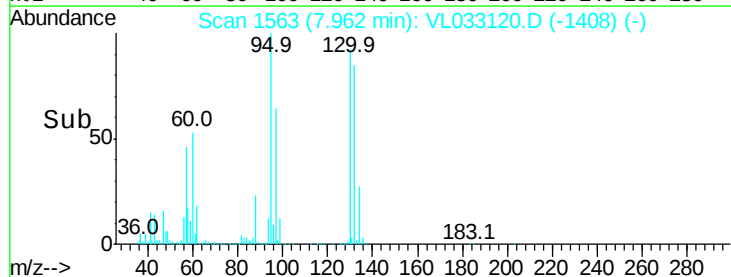
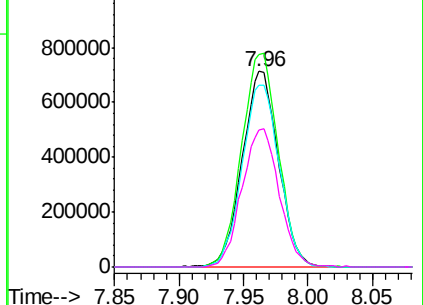


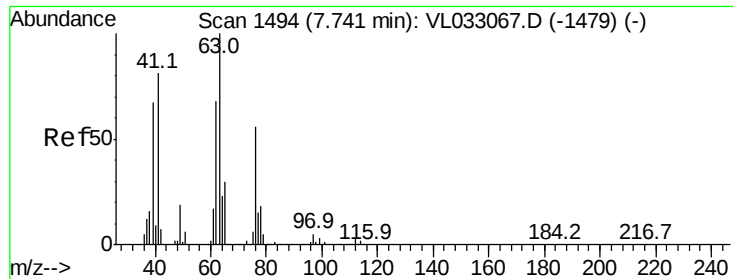
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 13.444 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

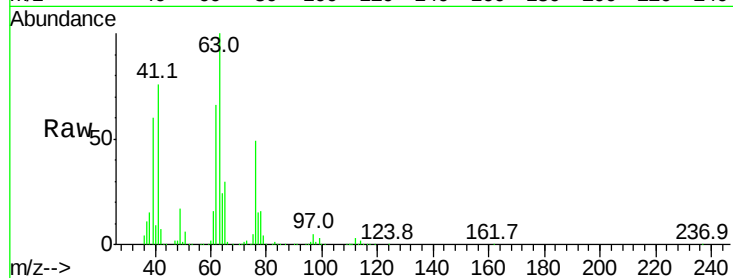
Tgt Ion: 63 Resp: 1249718

Ion Ratio Lower Upper

63 100

41 75.5 57.8 86.8

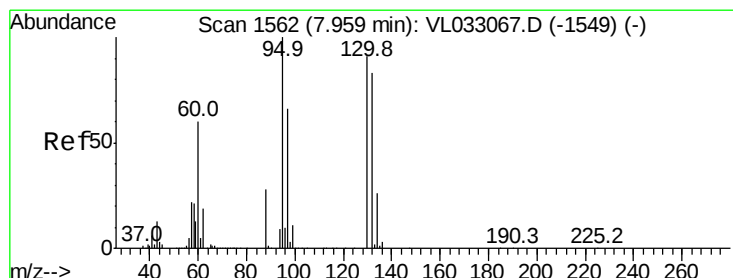
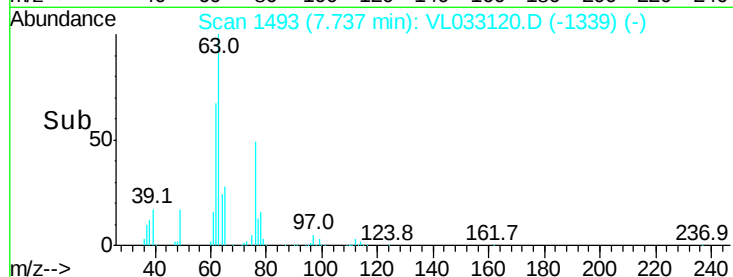
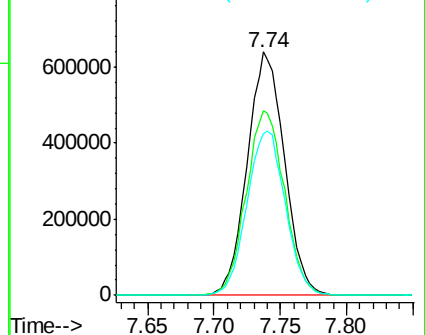
62 66.3 54.6 82.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 13.573 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Tgt Ion: 88 Resp: 478952

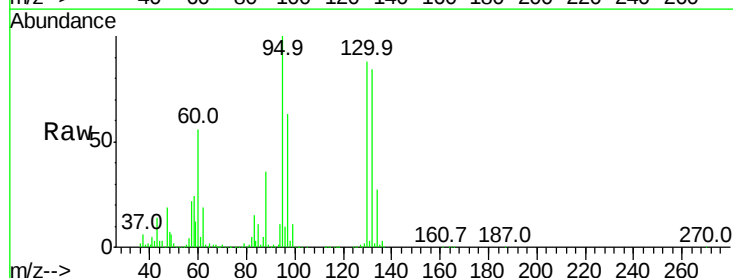
Ion Ratio Lower Upper

88 100

58 123.9 103.5 155.3

43 256.6 217.8 326.8

57 1163.6 992.7 1489.1

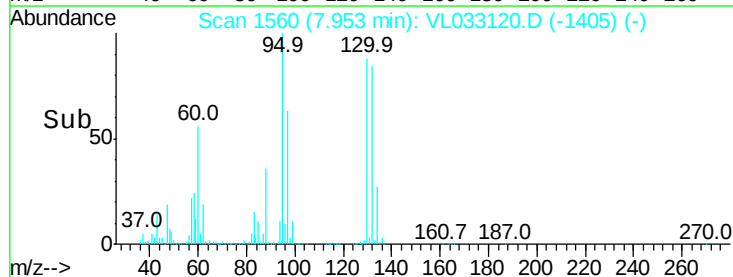
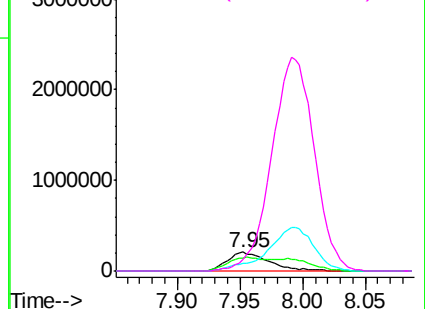


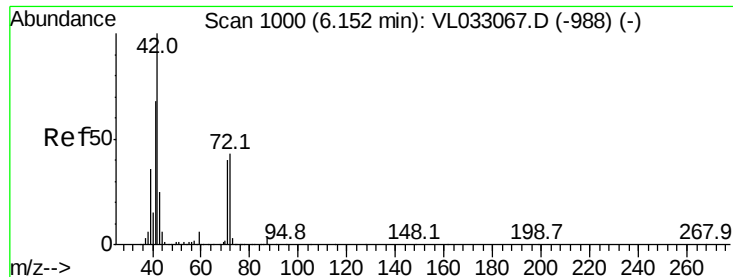
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 15.028 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

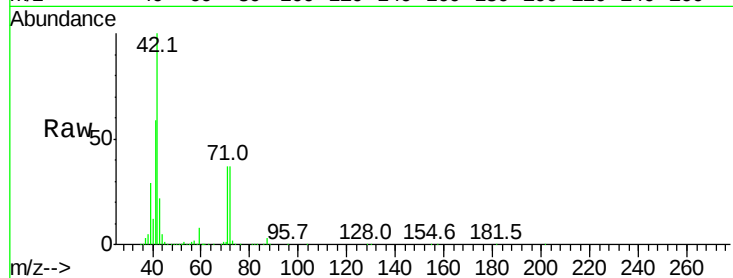
Tgt Ion: 42 Resp: 1342543

Ion Ratio Lower Upper

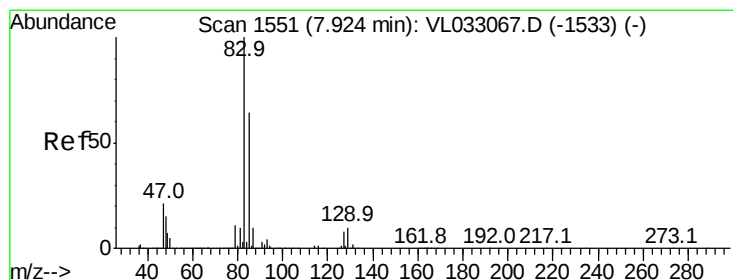
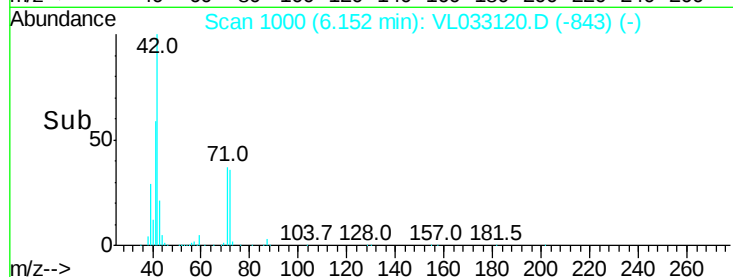
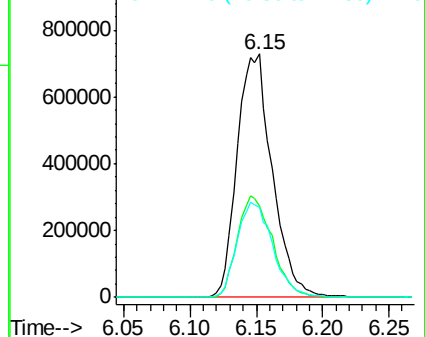
42 100

72 41.6 33.8 50.8

71 39.9 31.6 47.4



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



#42

Bromodichloromethane

Concen: 12.603 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

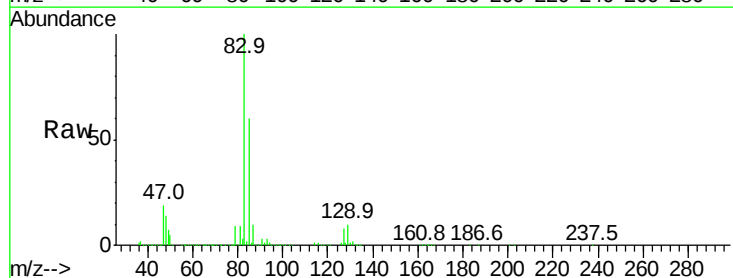
Tgt Ion: 83 Resp: 2991171

Ion Ratio Lower Upper

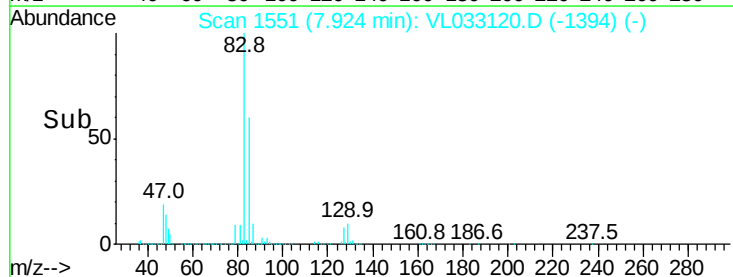
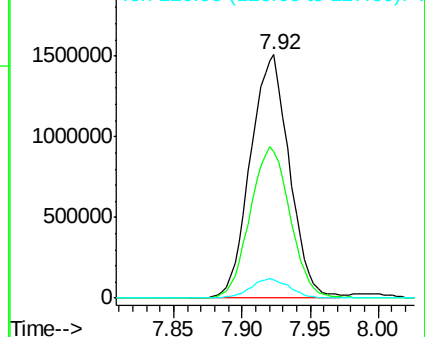
83 100

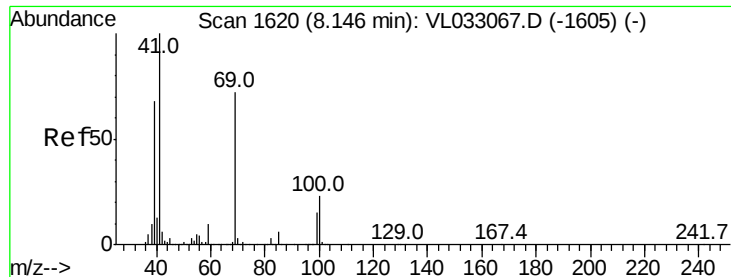
85 60.3 52.9 79.3

127 7.8 6.7 10.1



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: 14.636 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

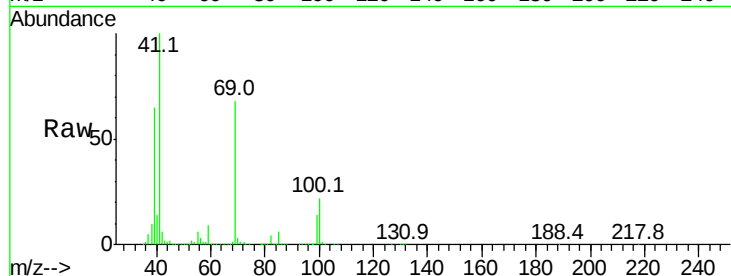
Tgt Ion: 69 Resp: 1358981

Ion Ratio Lower Upper

69 100

41 144.0 113.9 170.9

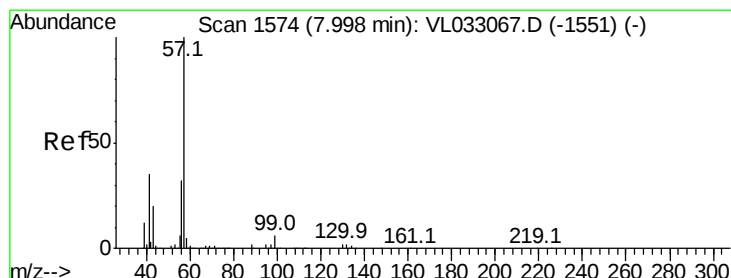
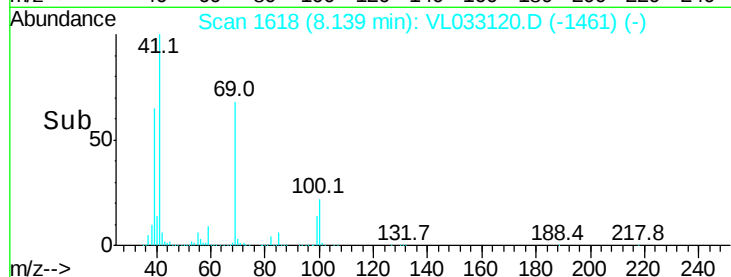
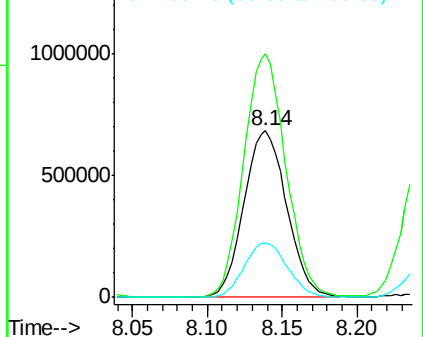
100 33.2 26.2 39.4



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: 13.286 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

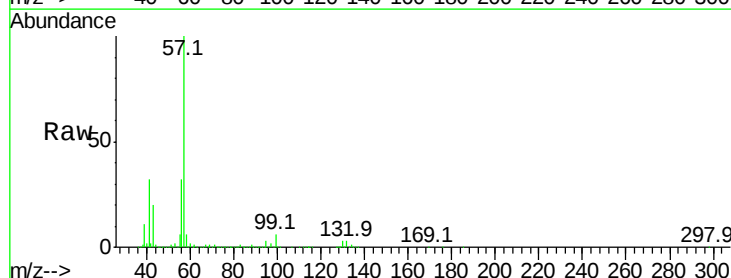
Tgt Ion: 57 Resp: 5567742

Ion Ratio Lower Upper

57 100

41 32.4 26.1 39.1

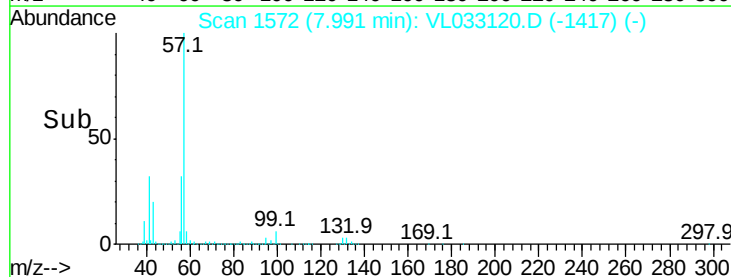
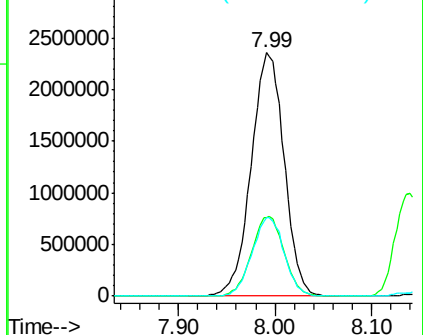
56 31.4 25.0 37.4

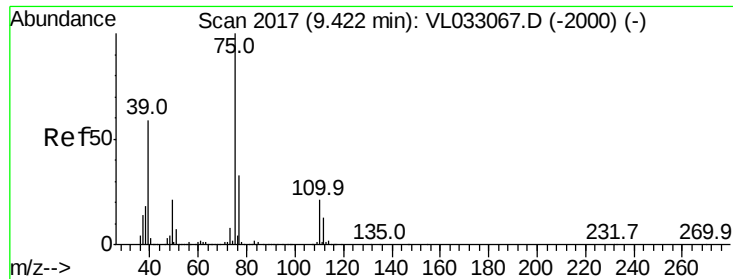


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 10.538 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

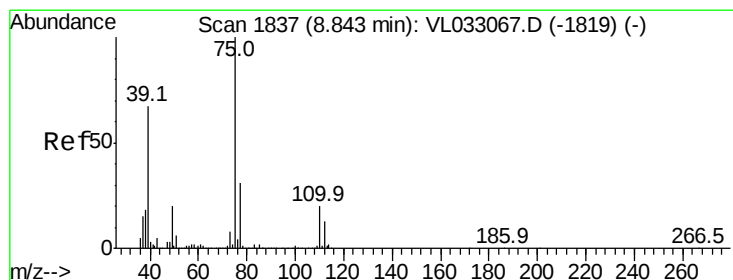
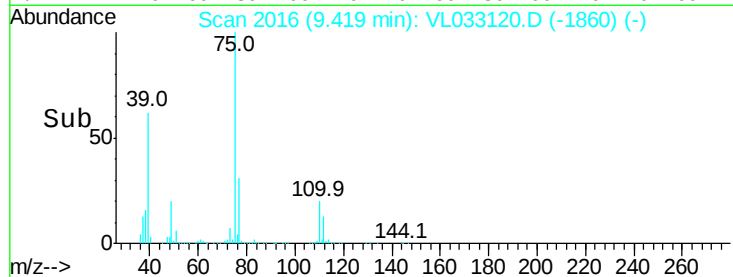
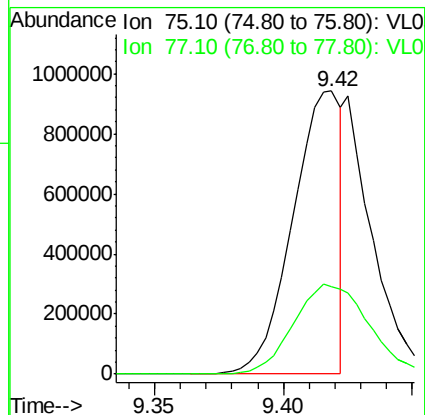
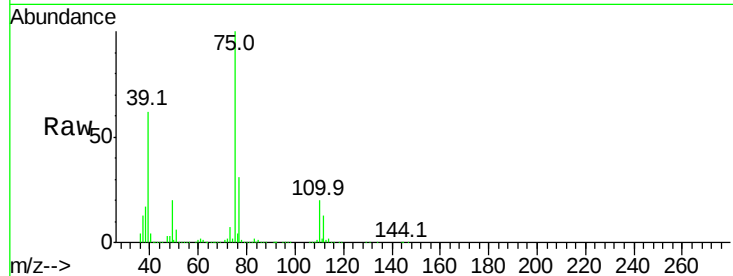
VSTDIC015

Tgt Ion: 75 Resp: 1218036

Ion Ratio Lower Upper

75 100

77 31.0 24.9 37.3



#46

cis-1,3-Dichloropropene

Concen: 16.327 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

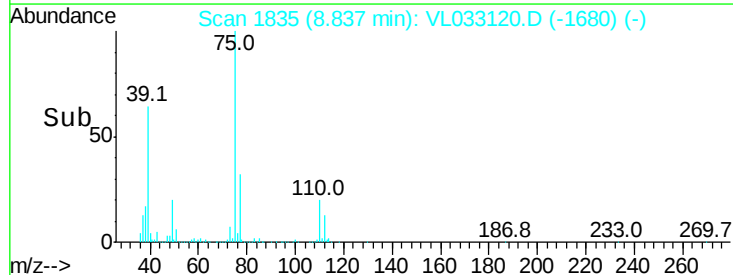
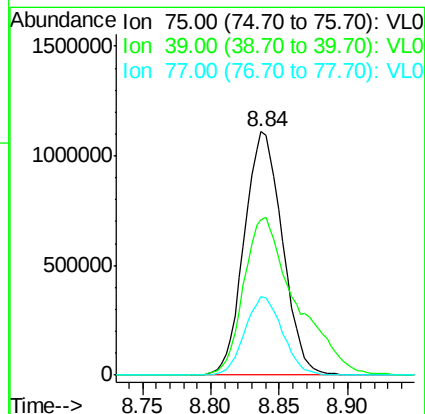
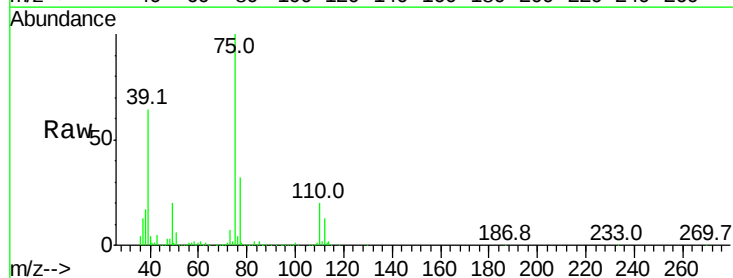
Tgt Ion: 75 Resp: 2153848

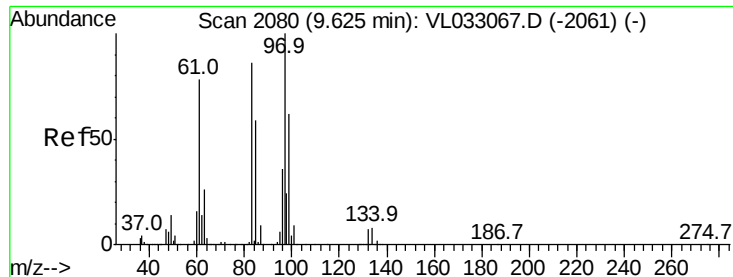
Ion Ratio Lower Upper

75 100

39 63.6 52.0 78.0

77 32.1 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 13.014 ppbv

RT: 9.61 min Scan# 2077

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1413418

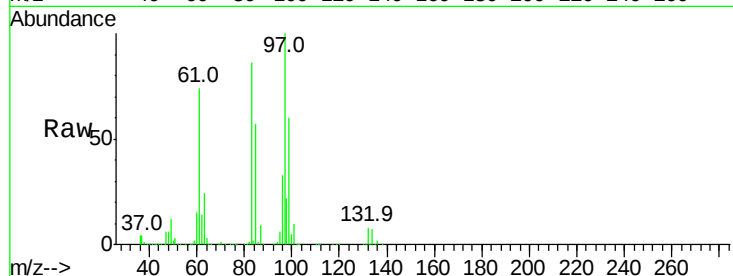
Ion Ratio Lower Upper

97 100

83 86.1 71.4 107.2

85 56.5 47.2 70.8

99 59.9 50.3 75.5

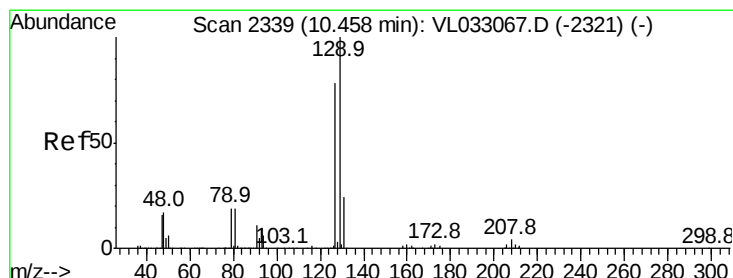
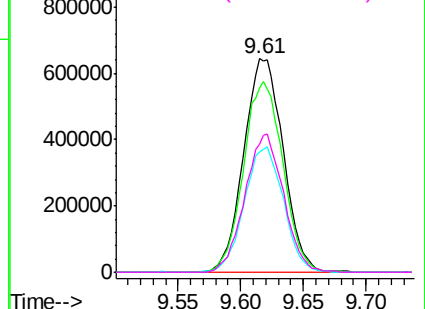
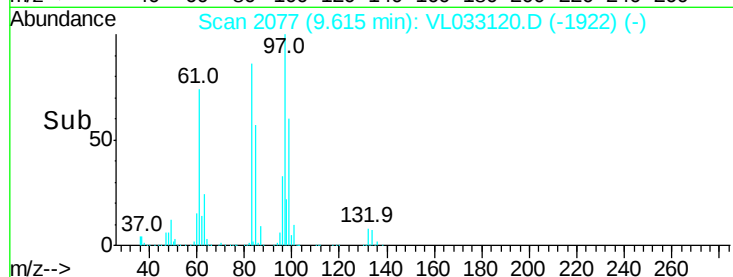


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 13.580 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. 0.00 min

Lab File: VL033120.D

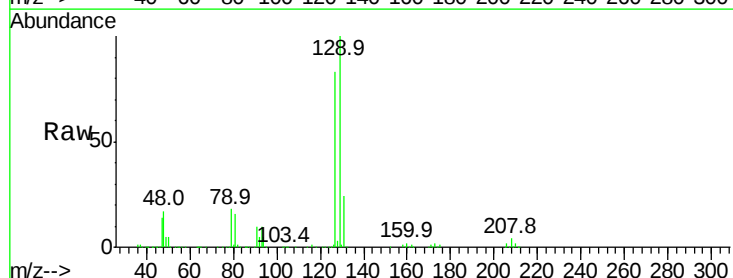
Acq: 28 Jan 2019 20:09

Tgt Ion: 129 Resp: 2605812

Ion Ratio Lower Upper

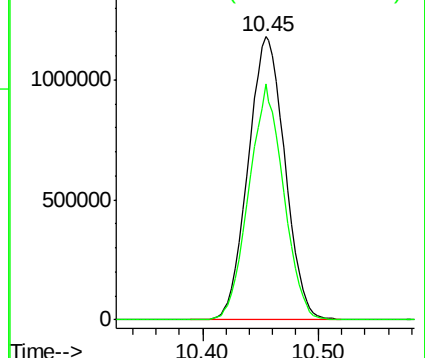
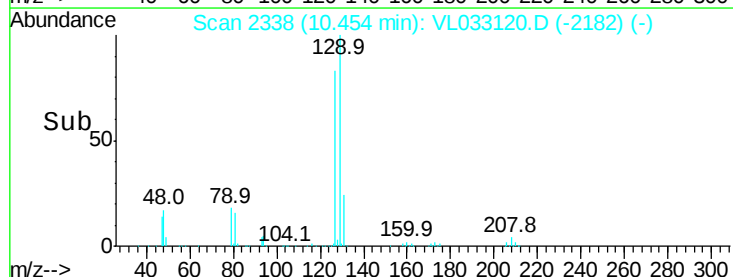
129 100

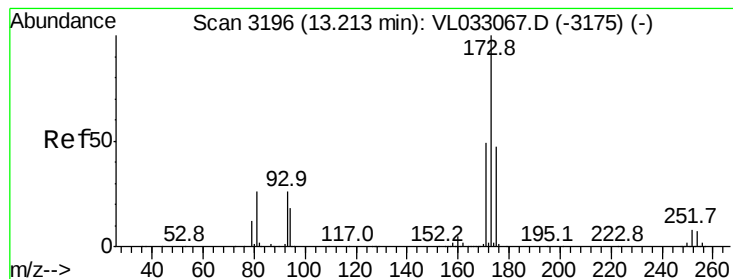
127 78.6 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 13.208 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

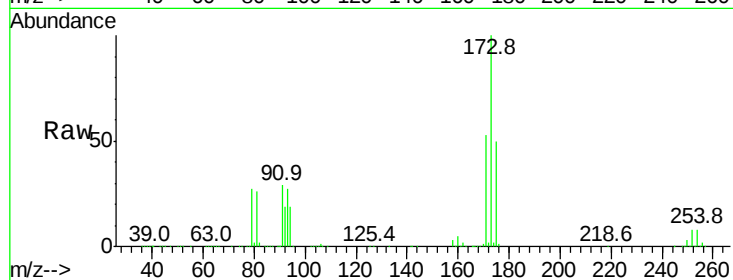
Tgt Ion:173 Resp: 2214404

Ion Ratio Lower Upper

173 100

175 49.0 38.9 58.3

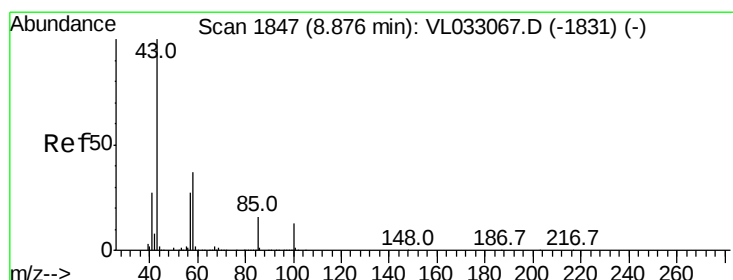
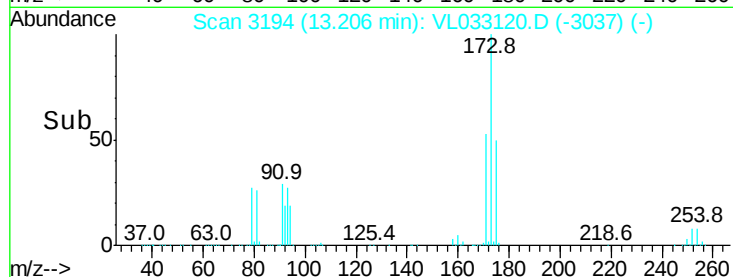
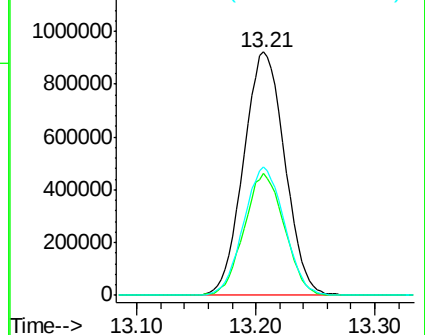
171 52.3 41.8 62.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 14.437 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033120.D

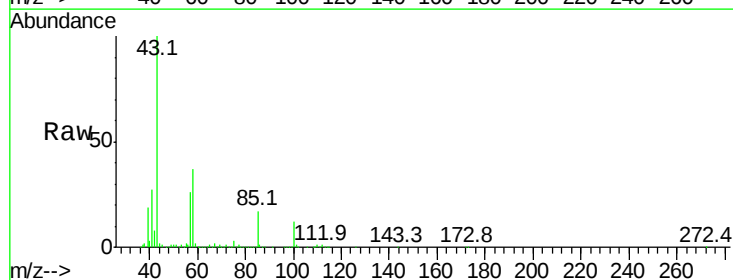
Acq: 28 Jan 2019 20:09

Tgt Ion: 43 Resp: 3210955

Ion Ratio Lower Upper

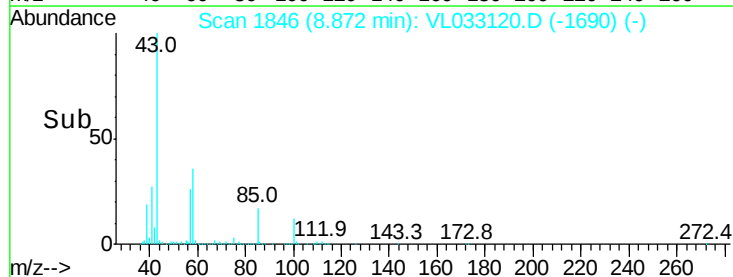
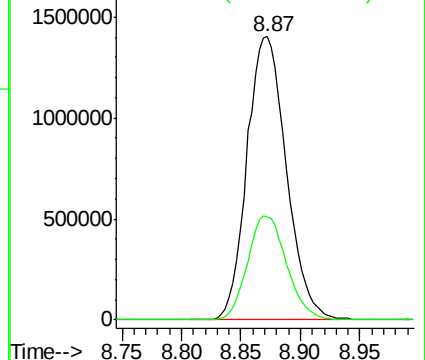
43 100

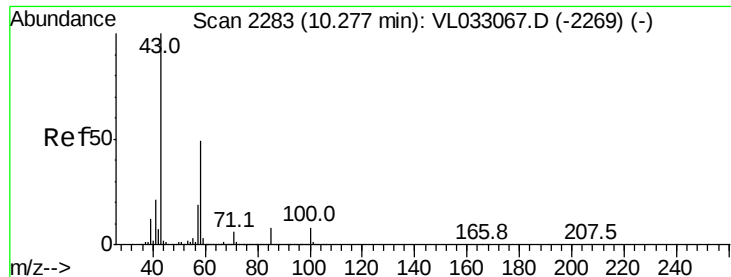
58 36.6 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 15.235 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

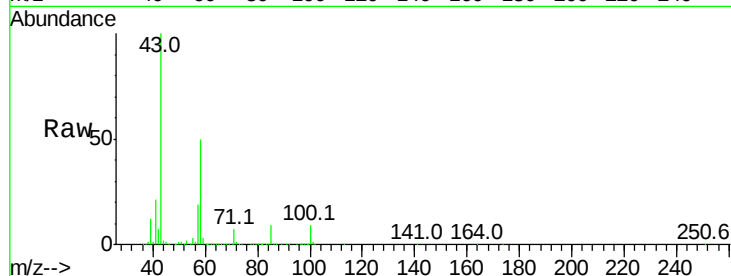
Tgt Ion: 43 Resp: 2451642

Ion Ratio Lower Upper

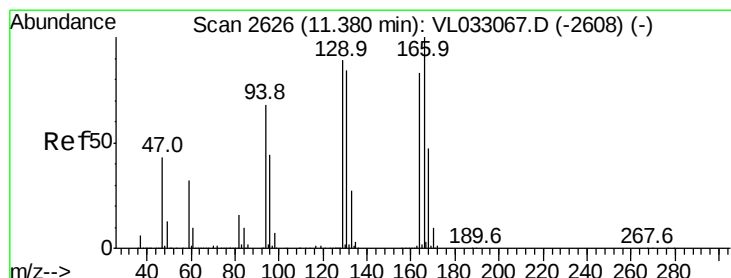
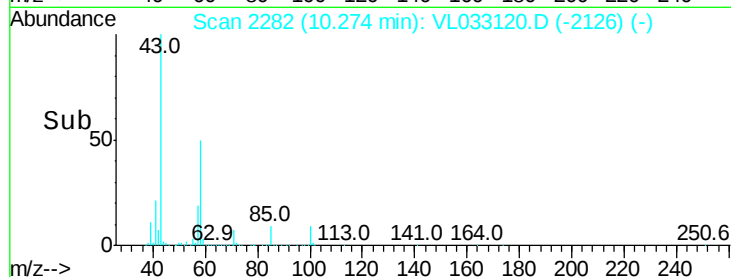
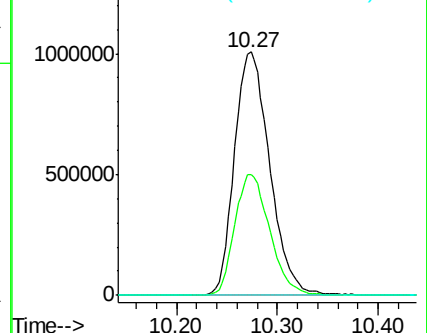
43 100

58 49.4 39.5 59.3

98 0.3 0.3 0.5



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 13.903 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Tgt Ion:164 Resp: 1216032

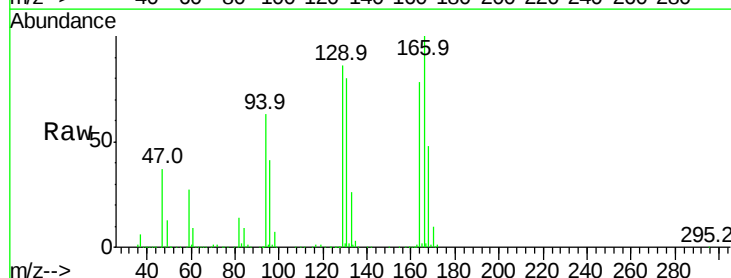
Ion Ratio Lower Upper

164 100

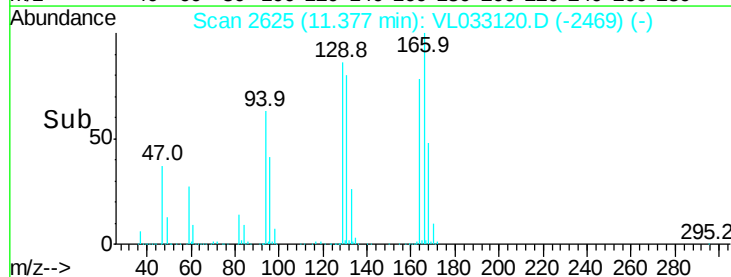
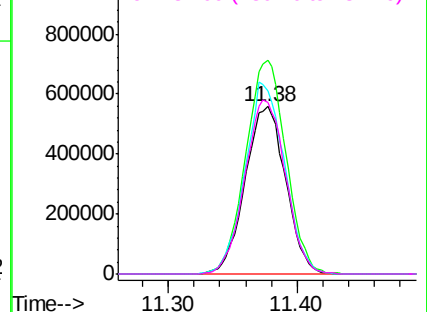
166 127.4 101.3 151.9

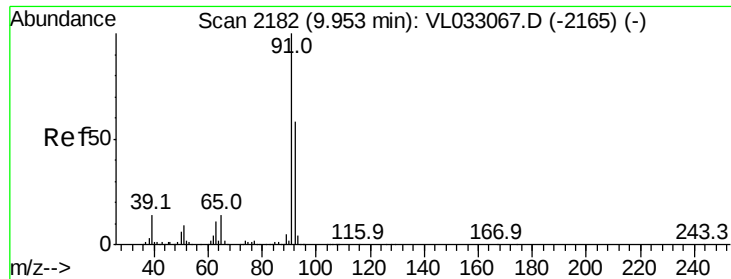
129 109.4 83.3 124.9

131 102.4 82.0 123.0



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 14.913 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

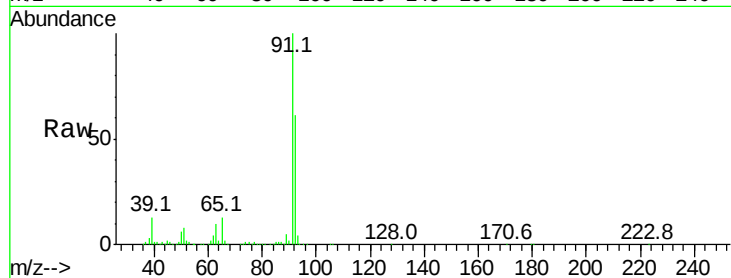
VSTDIC015

Tgt Ion: 91 Resp: 3954750

Ion Ratio Lower Upper

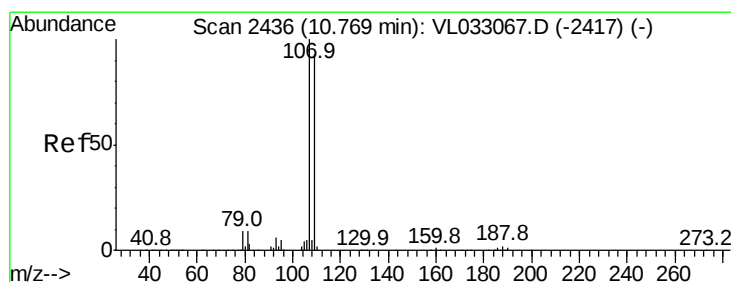
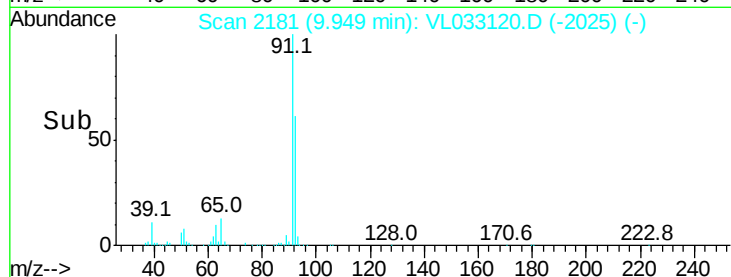
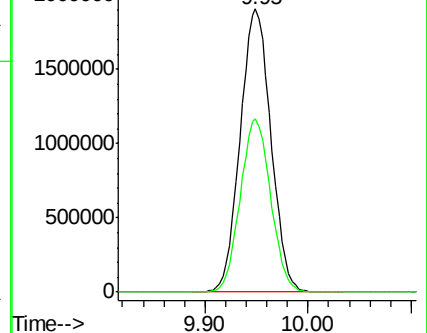
91 100

92 60.5 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 14.052 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033120.D

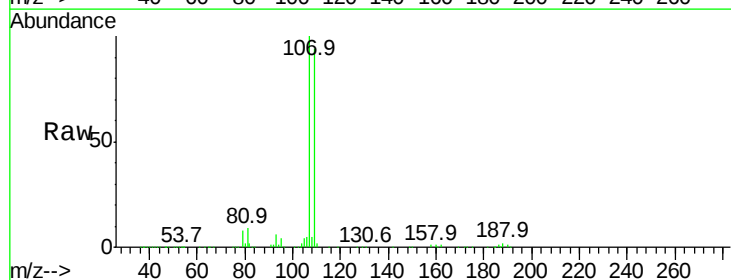
Acq: 28 Jan 2019 20:09

Tgt Ion: 107 Resp: 2198884

Ion Ratio Lower Upper

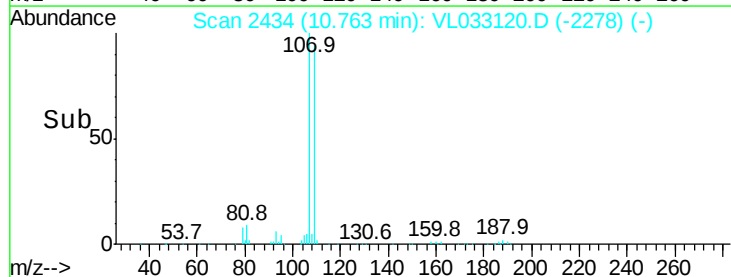
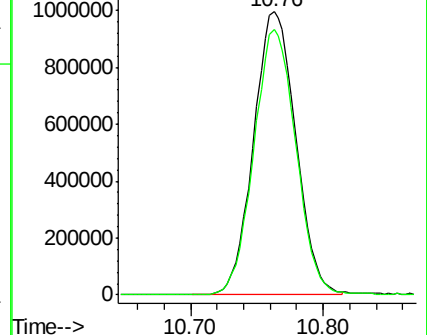
107 100

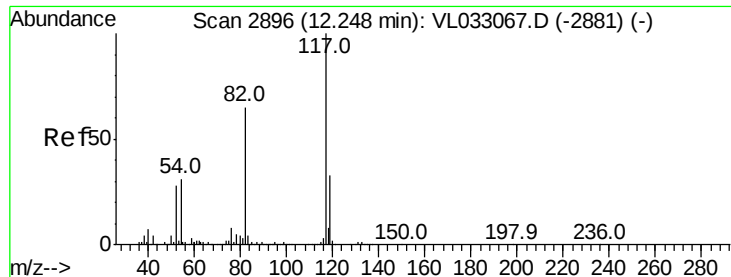
109 93.6 75.8 113.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

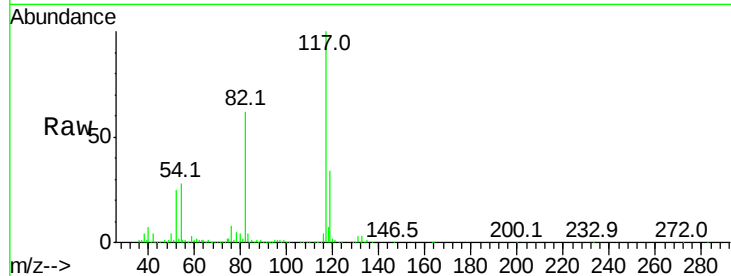




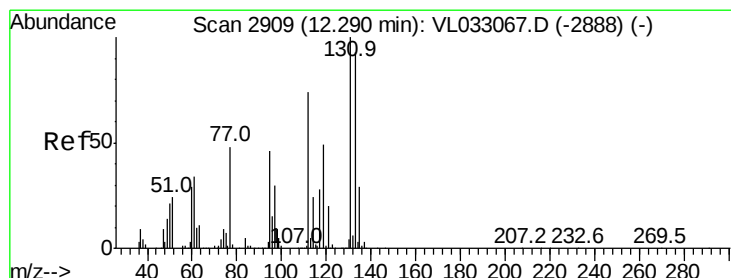
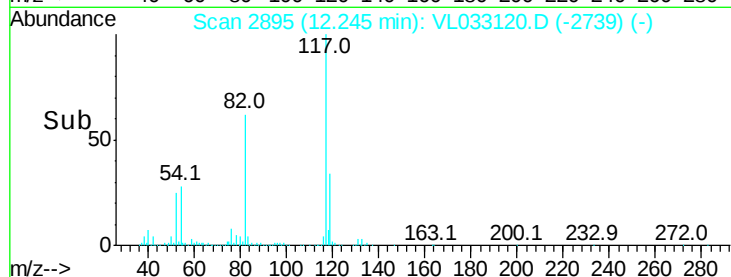
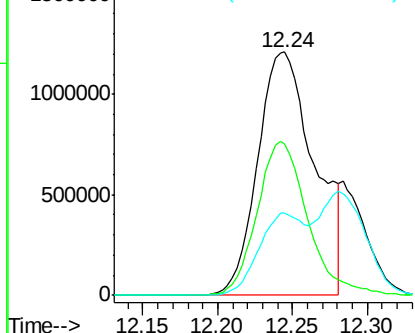
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.24 min Scan# 2895  
Delta R.T. 0.00 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:117 Resp: 3202699  
Ion Ratio Lower Upper  
117 100  
82 56.4 48.3 72.5  
119 0.0 25.9 38.9#

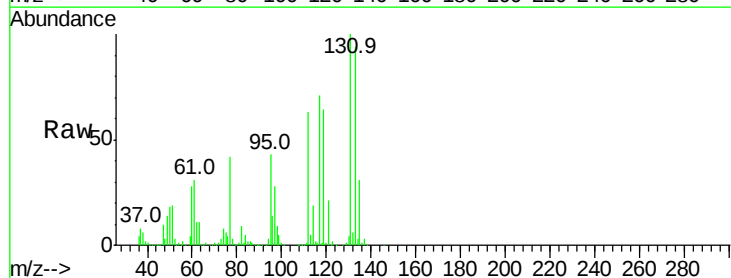


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): V  
Ion 119.10 (118.80 to 119.80): V

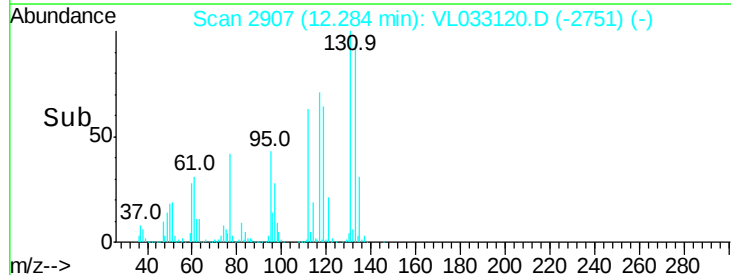
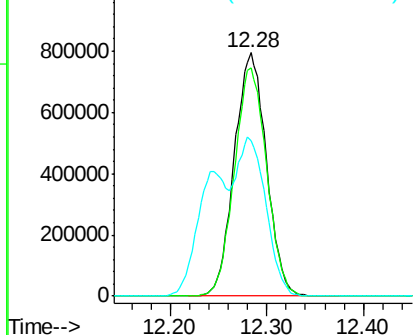


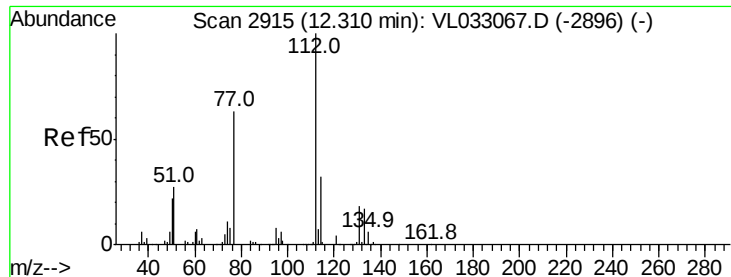
#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.041 ppbv  
RT: 12.28 min Scan# 2907  
Delta R.T. 0.00 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Tgt Ion:131 Resp: 1827072  
Ion Ratio Lower Upper  
131 100  
133 94.5 76.6 115.0  
119 110.6 44.6 66.8#



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V

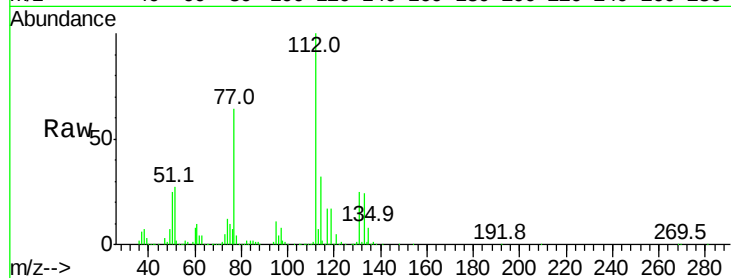




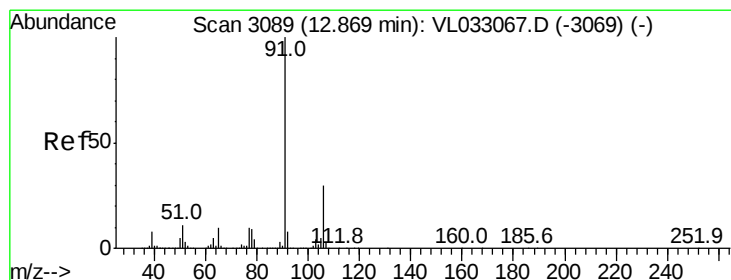
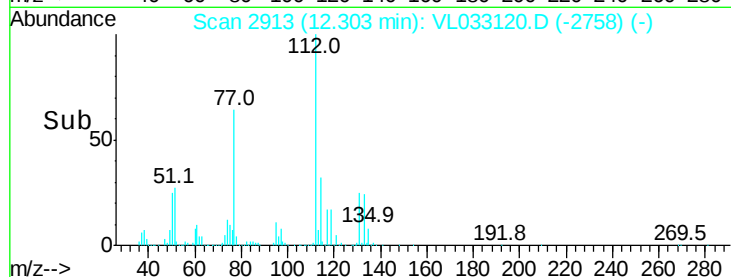
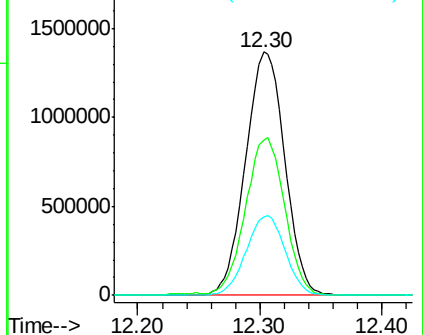
#57  
Chlorobenzene  
Concen: 11.382 ppbv  
RT: 12.30 min Scan# 2913  
Delta R.T. -0.00 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:112 Resp: 3042583  
Ion Ratio Lower Upper  
112 100  
77 63.8 51.6 77.4  
114 32.3 27.9 34.1

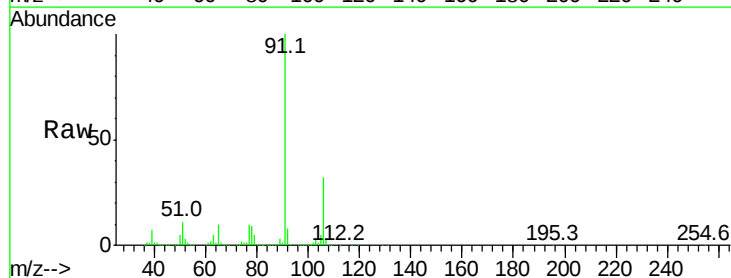


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

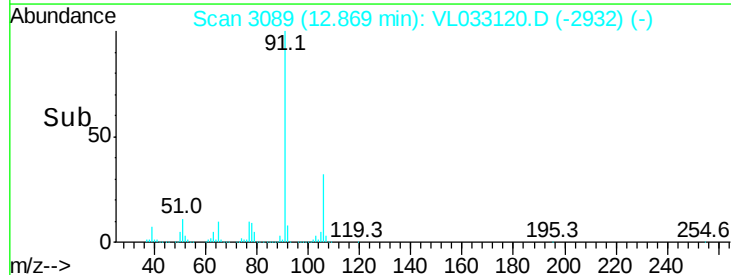
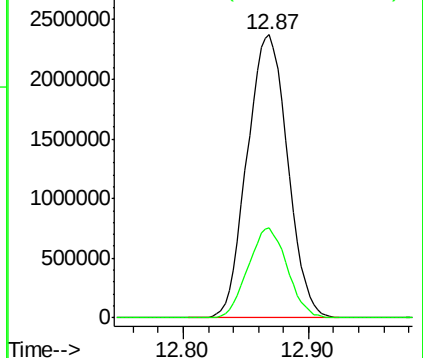


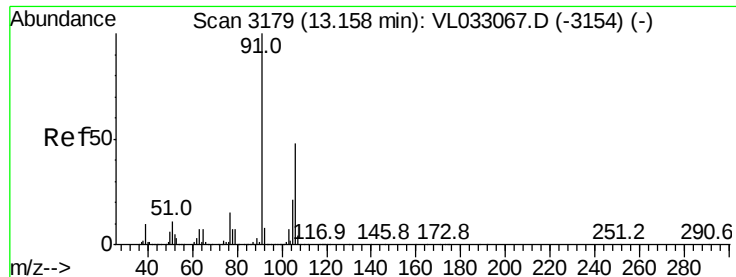
#58  
Ethyl Benzene  
Concen: 13.187 ppbv  
RT: 12.87 min Scan# 3089  
Delta R.T. 0.01 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Tgt Ion: 91 Resp: 5332480  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.4 36.6



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

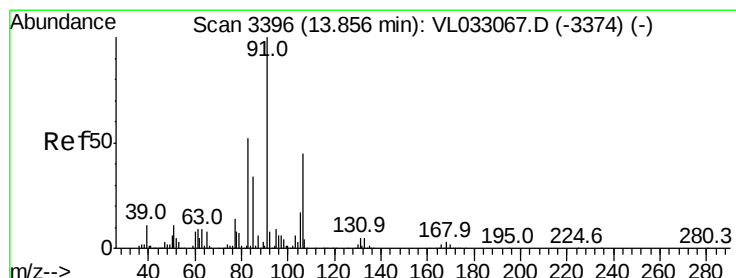
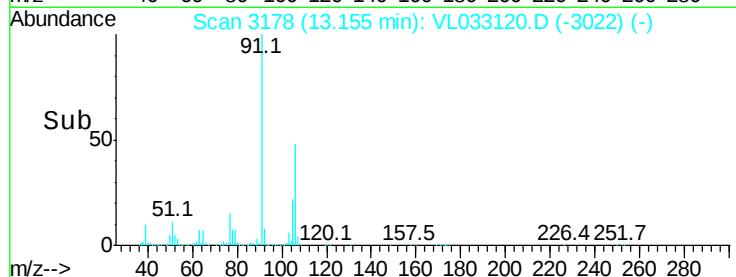
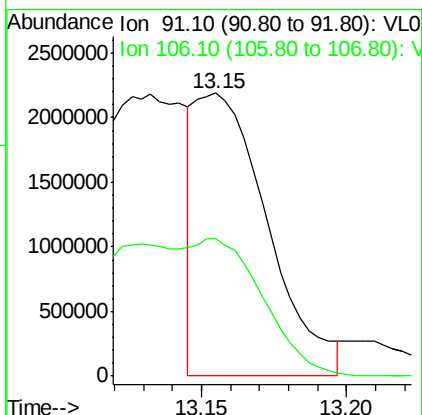
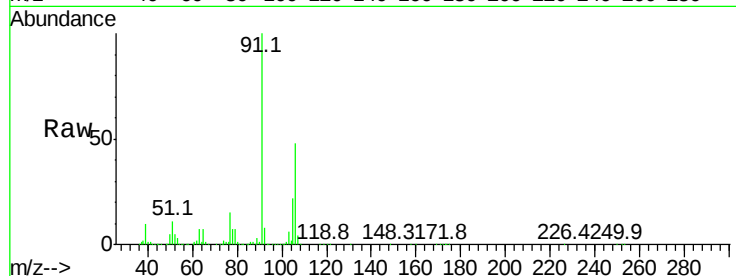




#59  
m/p-Xylene  
Concen: 10.067 ppbv  
RT: 13.15 min Scan# 3178  
Delta R.T. 0.00 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

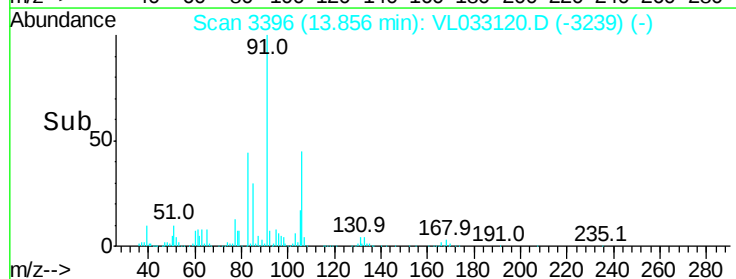
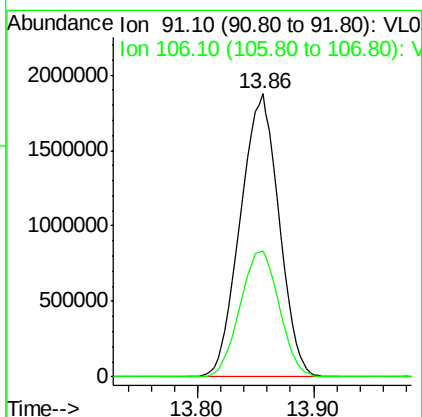
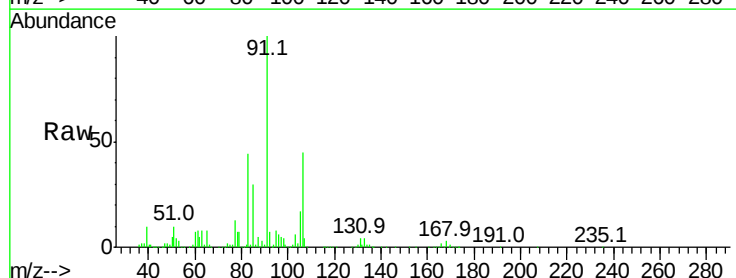
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

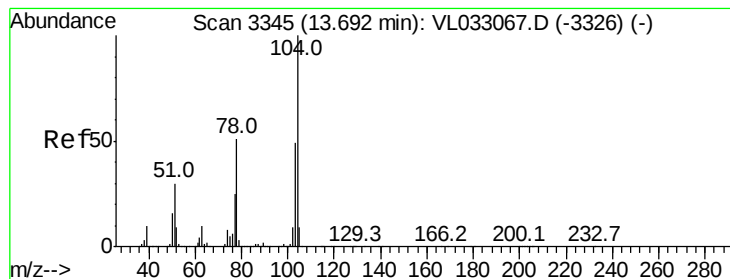
Tgt Ion: 91 Resp: 3765731  
Ion Ratio Lower Upper  
91 100  
106 110.5 0.0 0.0#



#60  
o-Xylene  
Concen: 11.876 ppbv  
RT: 13.86 min Scan# 3396  
Delta R.T. 0.01 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Tgt Ion: 91 Resp: 4349129  
Ion Ratio Lower Upper  
91 100  
106 45.2 22.6 67.8





#61

Styrene

Concen: 14.285 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

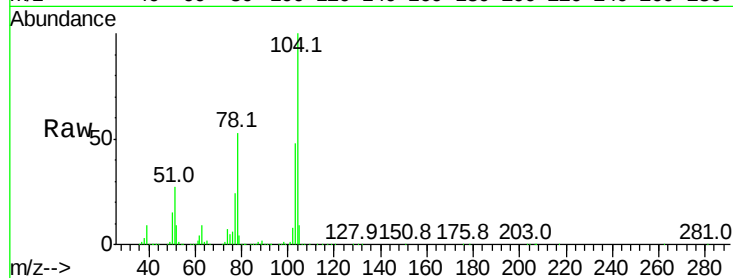
Tgt Ion:104 Resp: 3337884

Ion Ratio Lower Upper

104 100

78 50.7 41.4 62.0

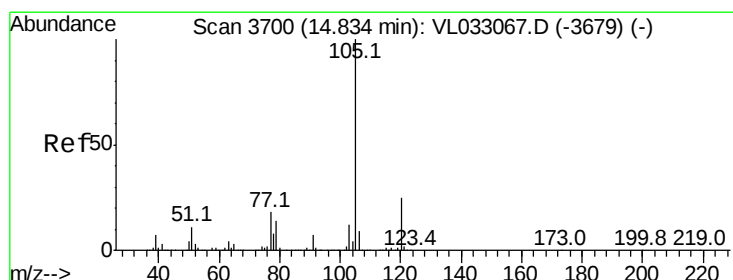
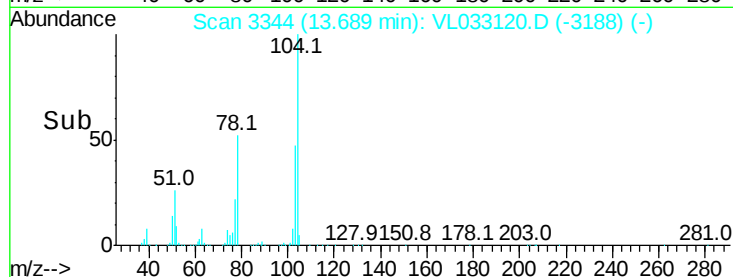
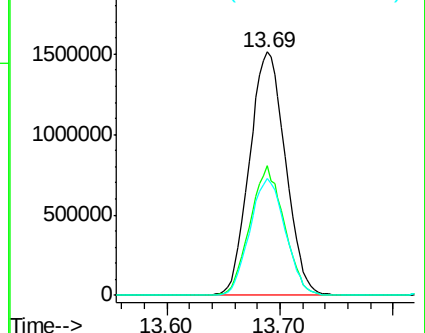
103 47.6 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.989 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.00 min

Lab File: VL033120.D

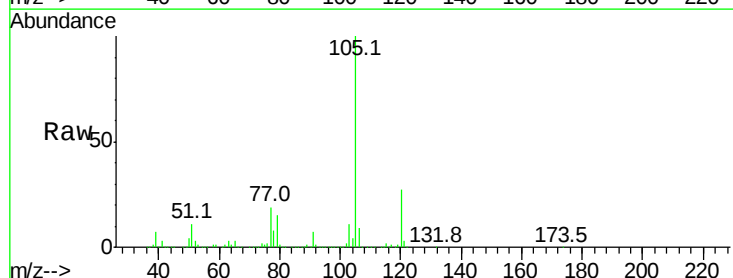
Acq: 28 Jan 2019 20:09

Tgt Ion:105 Resp: 6248361

Ion Ratio Lower Upper

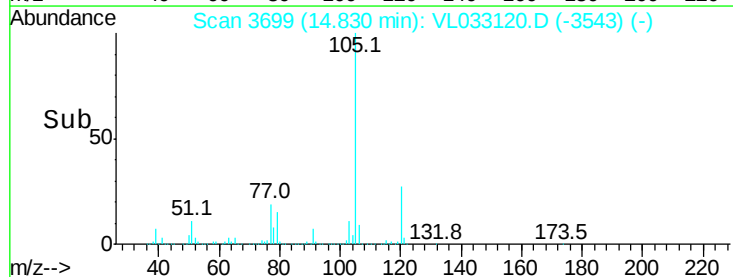
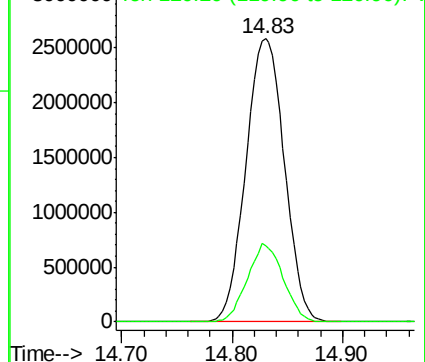
105 100

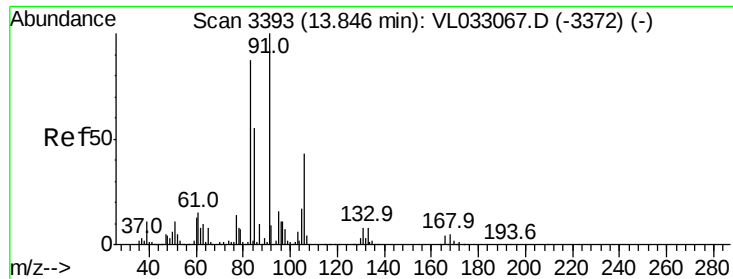
120 25.8 20.4 30.6



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: 10.958 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

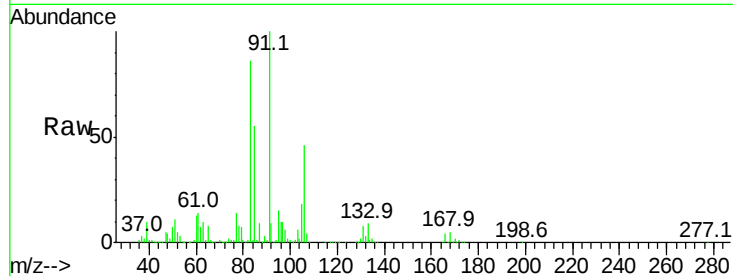
Tgt Ion: 83 Resp: 2980874

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.6

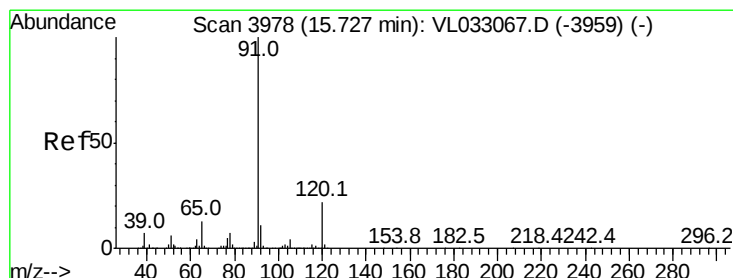
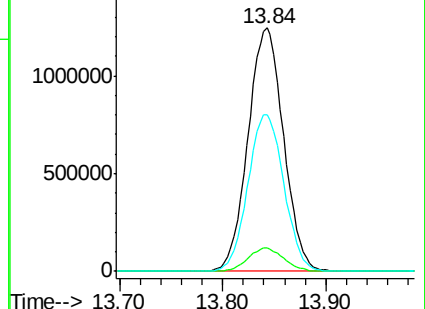
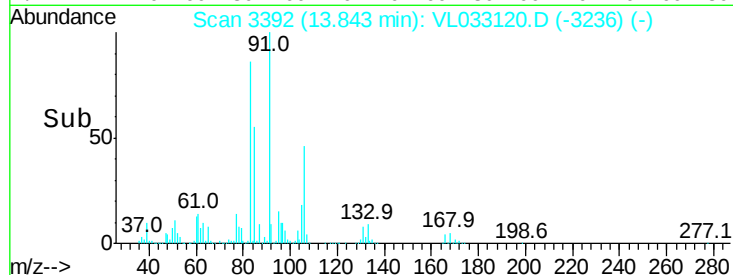
85 65.4 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 12.328 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. 0.00 min

Lab File: VL033120.D

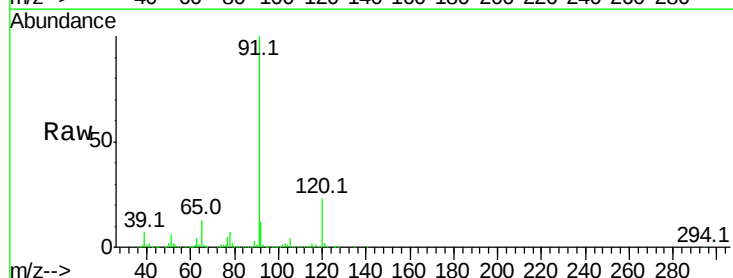
Acq: 28 Jan 2019 20:09

Tgt Ion: 120 Resp: 1632200

Ion Ratio Lower Upper

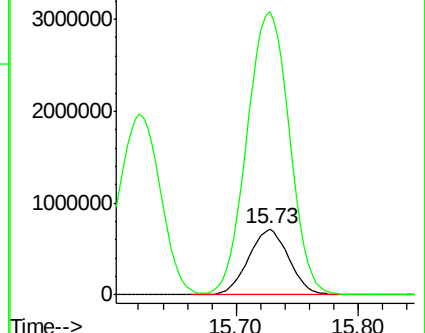
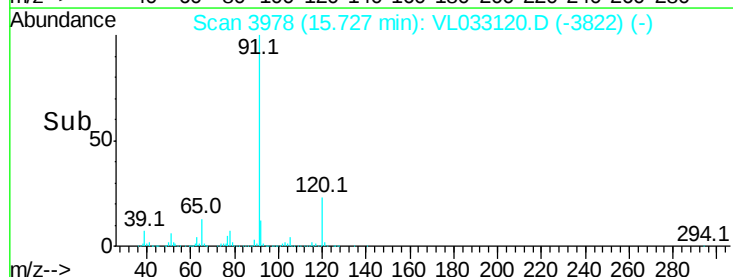
120 100

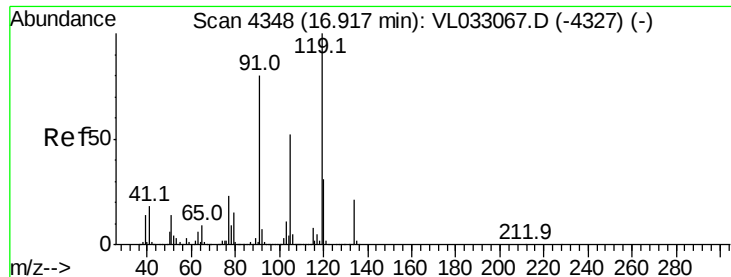
91 455.7 375.7 563.5



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0



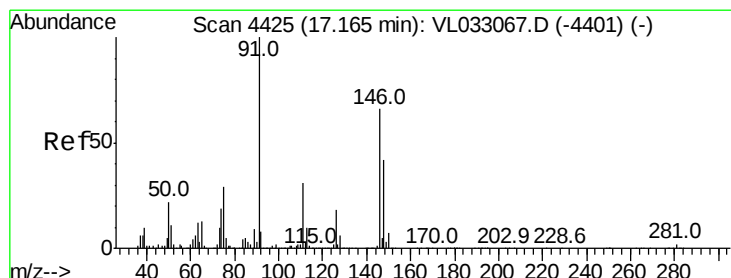
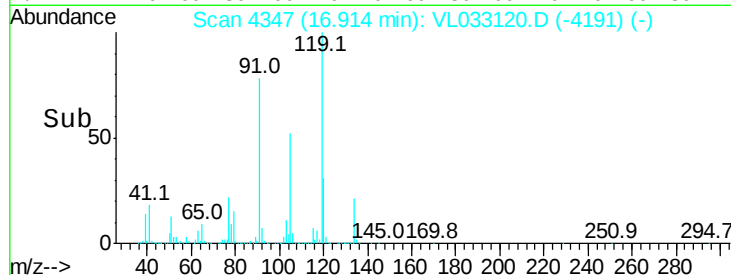
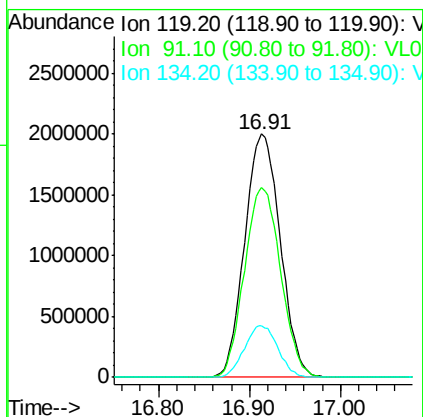
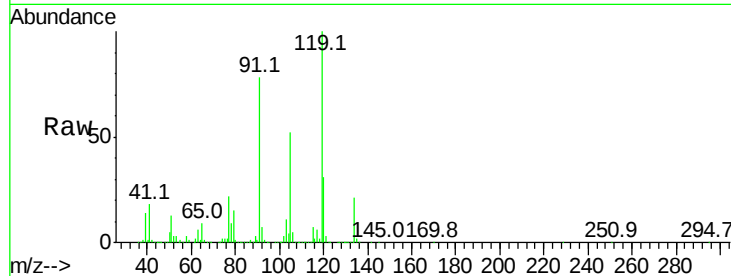


#65  
 tert-Butylbenzene  
 Concen: 11.764 ppbv  
 RT: 16.91 min Scan# 4347  
 Delta R.T. 0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 119 Resp: 5430507  

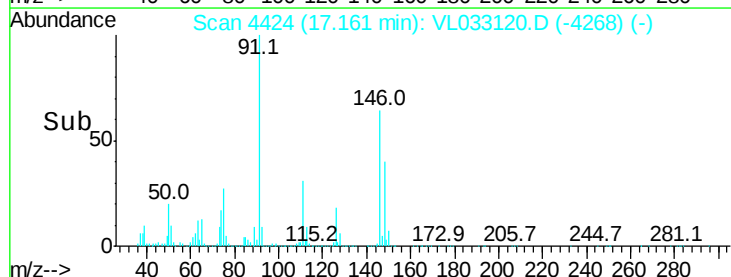
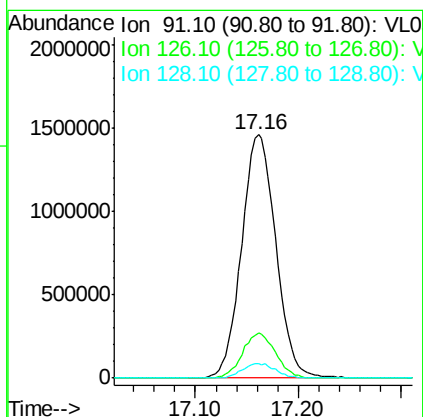
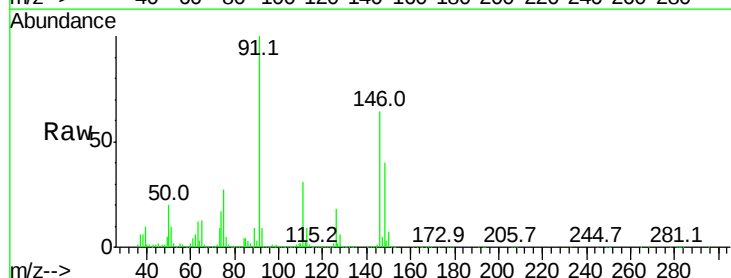
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 79.6  | 64.5  | 96.7  |
| 134 | 20.0  | 15.7  | 23.5  |

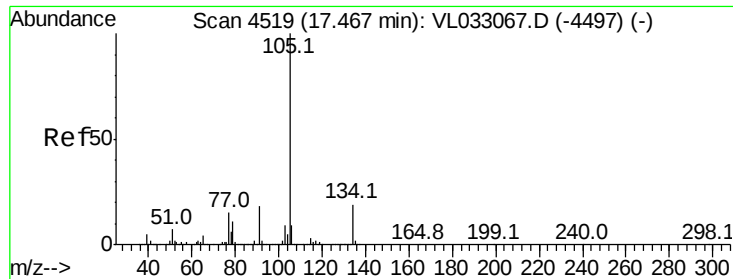


#66  
 Benzyl Chloride  
 Concen: 12.842 ppbv  
 RT: 17.16 min Scan# 4424  
 Delta R.T. 0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Tgt Ion: 91 Resp: 3378684  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 18.0  | 14.3  | 21.5  |
| 128 | 5.9   | 4.6   | 7.0   |

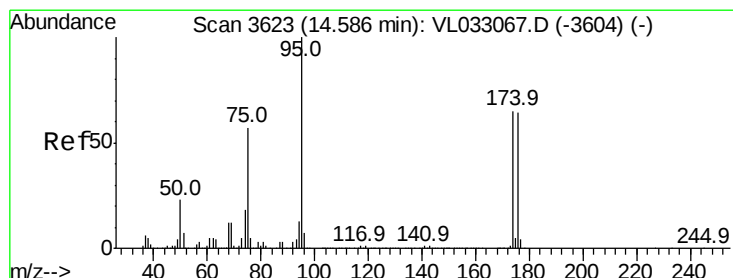
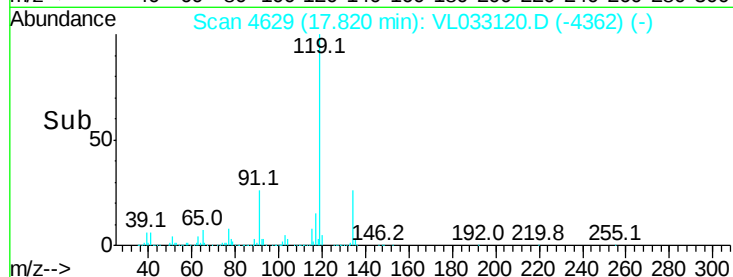
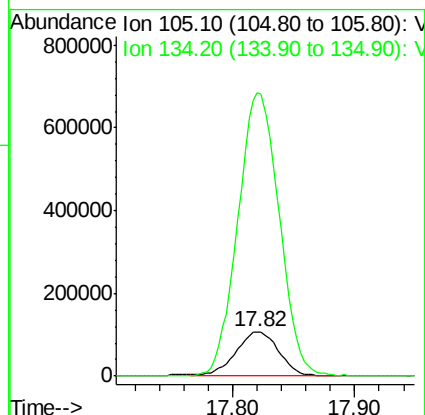
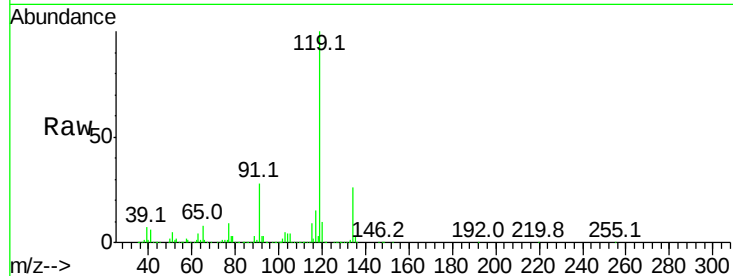




#67  
 sec-Butylbenzene  
 Concen: 0.391 ppbv  
 RT: 17.82 min Scan# 4629  
 Delta R.T. 0.36 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

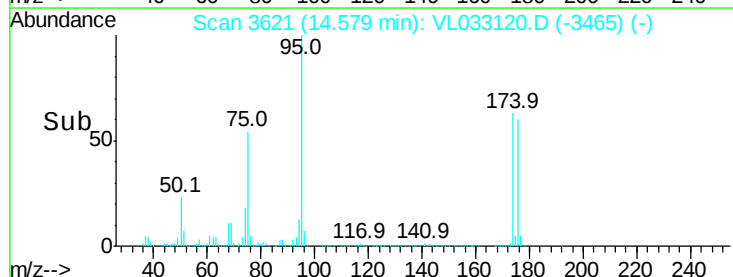
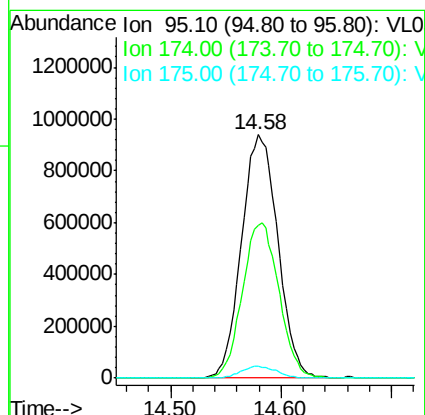
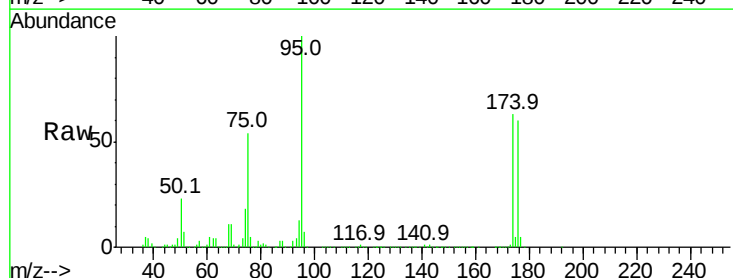
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

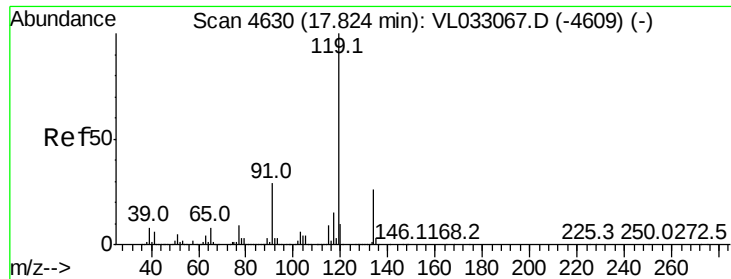
Tgt Ion: 105 Resp: 258631  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 14.8 22.2#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.750 ppbv  
 RT: 14.58 min Scan# 3621  
 Delta R.T. 0.00 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Tgt Ion: 95 Resp: 2148177  
 Ion Ratio Lower Upper  
 95 100  
 174 64.3 51.4 77.2  
 175 4.8 4.0 6.0

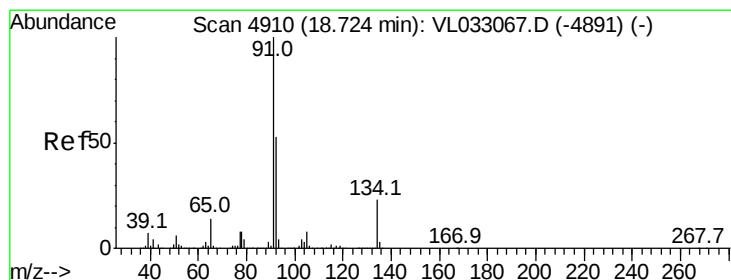
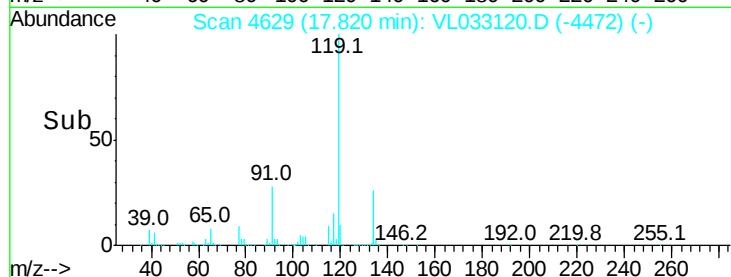
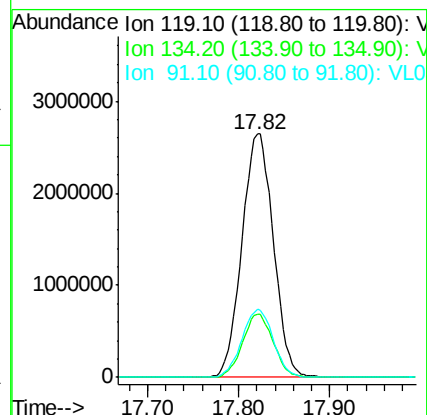
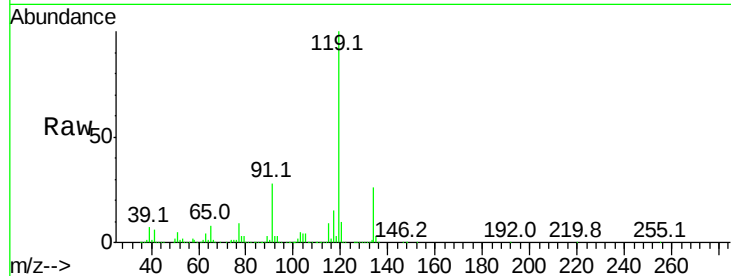




#69  
p-Isopropyltoluene  
Concen: 11.828 ppbv  
RT: 17.82 min Scan# 4629  
Delta R.T. 0.01 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

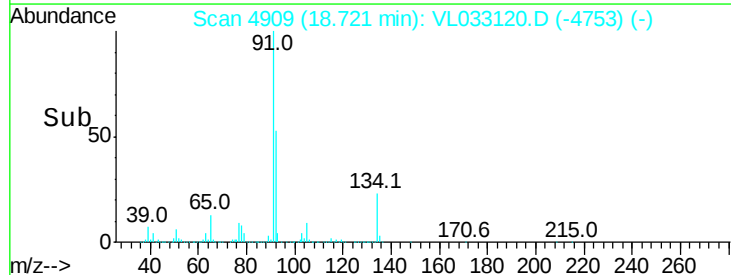
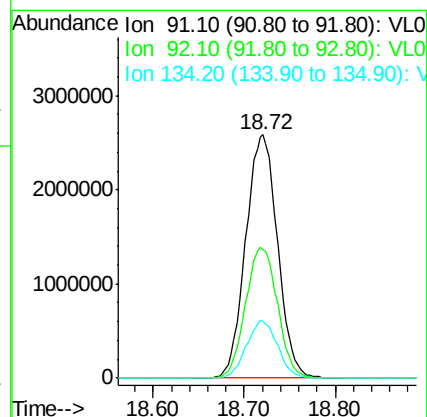
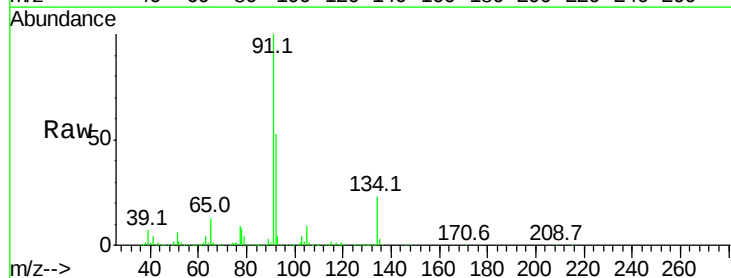
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

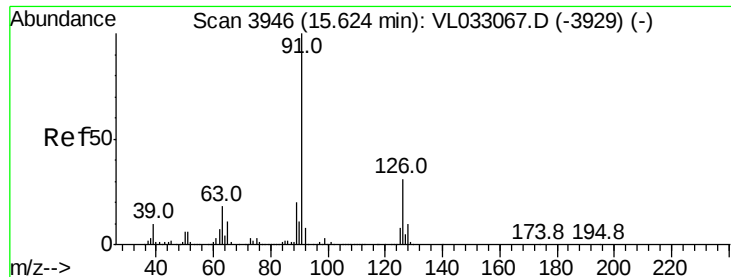
Tgt Ion: 119 Resp: 6341963  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.4 30.6  
91 27.9 22.8 34.2



#70  
n-Butylbenzene  
Concen: 11.626 ppbv  
RT: 18.72 min Scan# 4909  
Delta R.T. 0.00 min  
Lab File: VL033120.D  
Acq: 28 Jan 2019 20:09

Tgt Ion: 91 Resp: 6266582  
Ion Ratio Lower Upper  
91 100  
92 54.0 43.0 64.6  
134 23.0 18.4 27.6





#71

2-Chlorotoluene

Concen: 12.466 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

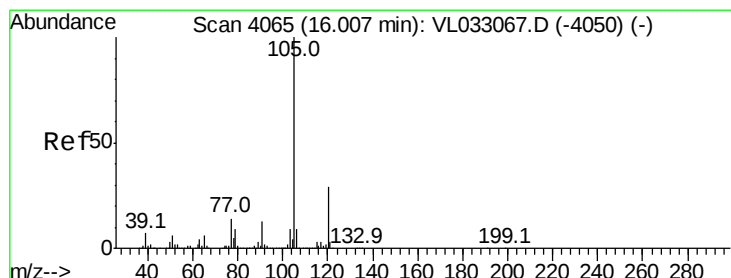
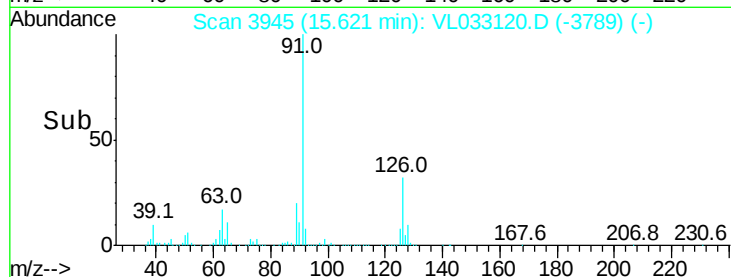
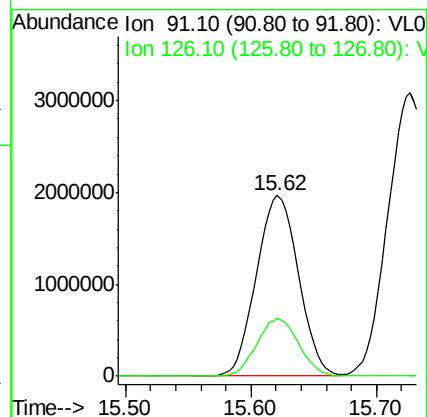
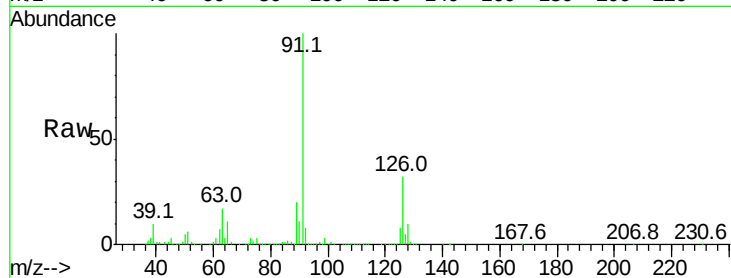
VSTDIC015

Tgt Ion: 91 Resp: 4607541

Ion Ratio Lower Upper

91 100

126 31.5 12.4 49.8



#72

4-Ethyltoluene

Concen: 12.693 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Tgt Ion: 105 Resp: 5108124

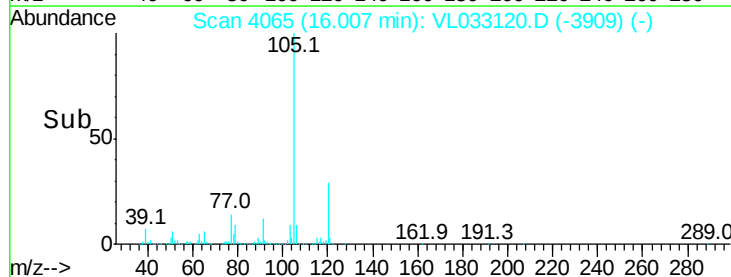
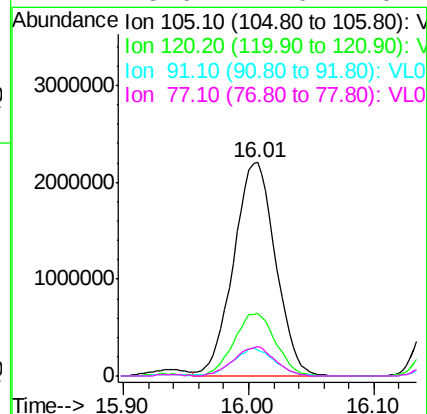
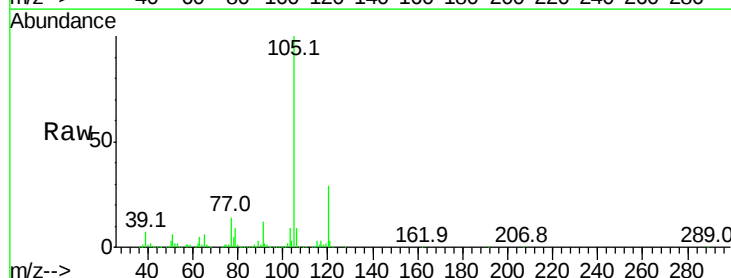
Ion Ratio Lower Upper

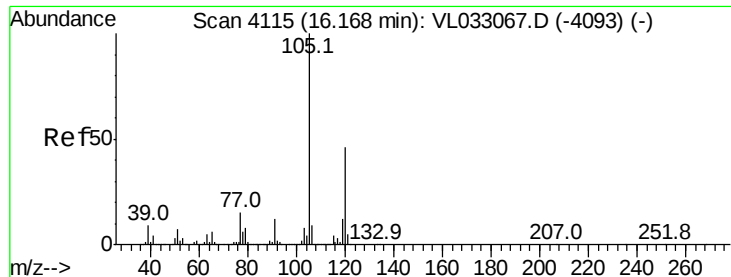
105 100

120 29.2 23.5 35.3

91 12.6 10.3 15.5

77 13.6 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 12.224 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

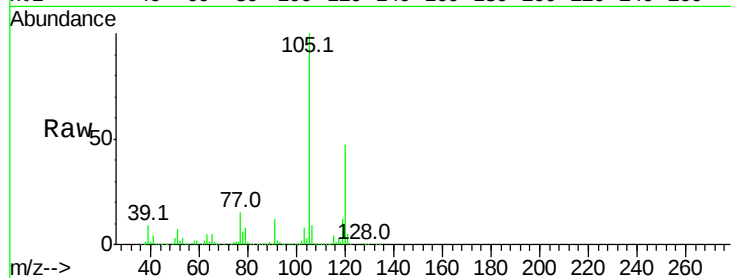
VSTDIC015

Tgt Ion:105 Resp: 4853795

Ion Ratio Lower Upper

105 100

120 47.1 37.5 56.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.16

2000000

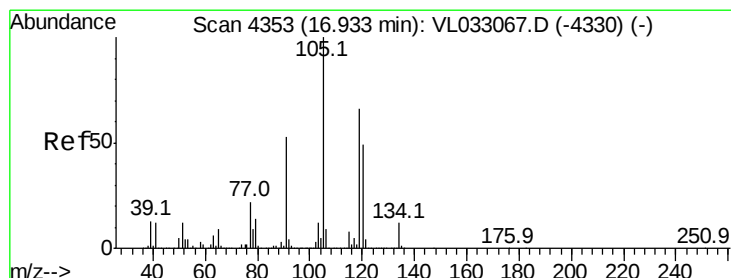
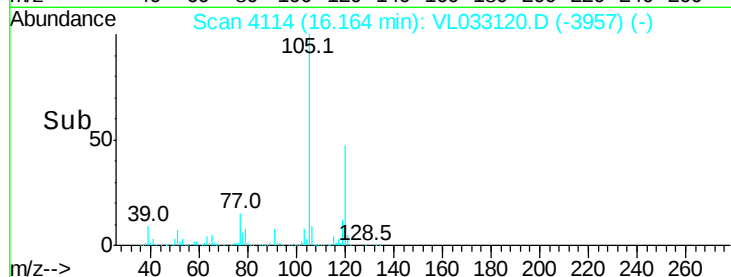
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 11.139 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Tgt Ion:105 Resp: 4898585

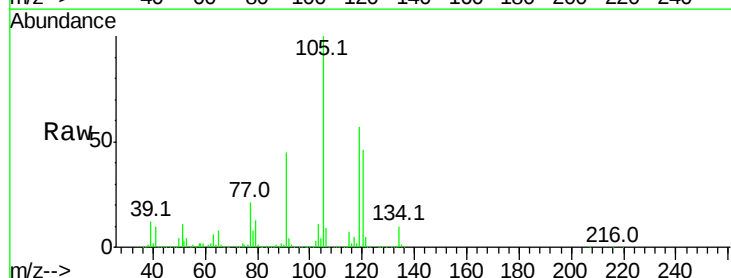
Ion Ratio Lower Upper

105 100

120 46.4 37.9 56.9

91 44.8 39.8 59.8

77 21.0 17.8 26.8



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): V

Ion 77.10 (76.80 to 77.80): V

16.93

3000000

2500000

2000000

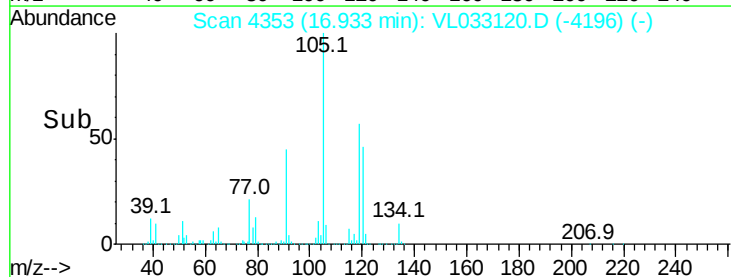
1500000

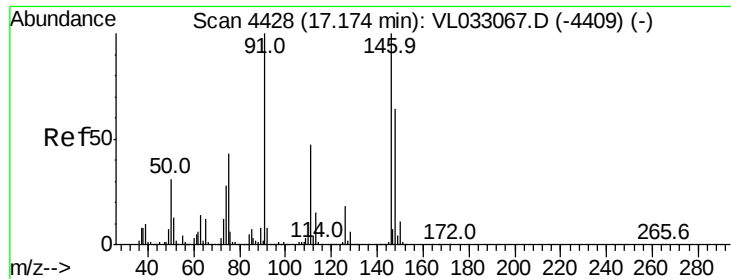
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 10.781 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

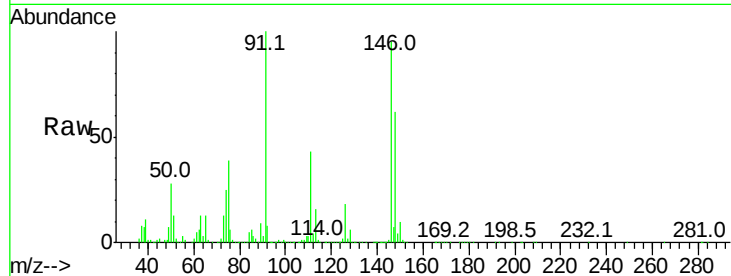
Tgt Ion:146 Resp: 2790802

Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.0

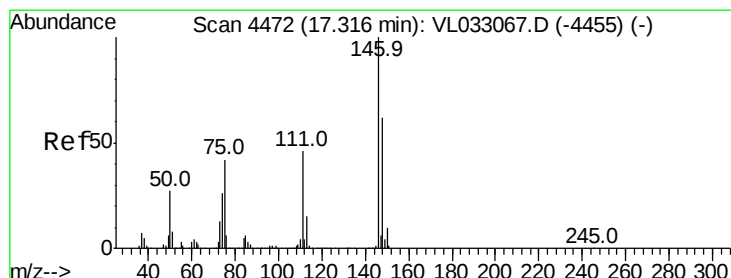
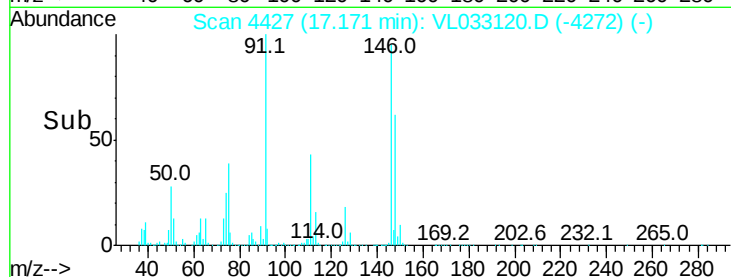
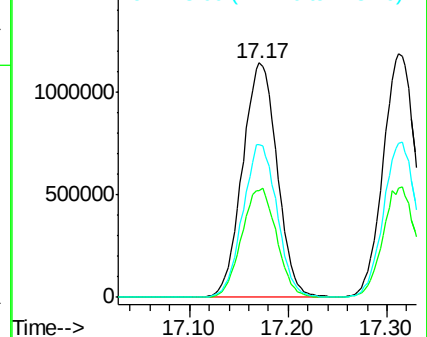
148 64.4 32.1 96.3



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: 11.729 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

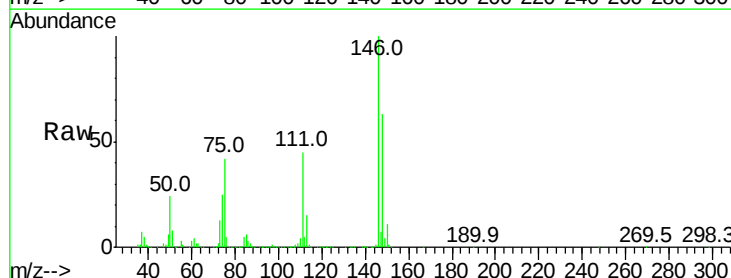
Tgt Ion:146 Resp: 2765762

Ion Ratio Lower Upper

146 100

111 45.7 22.7 68.0

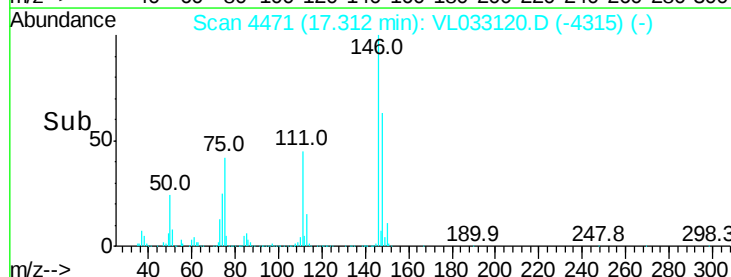
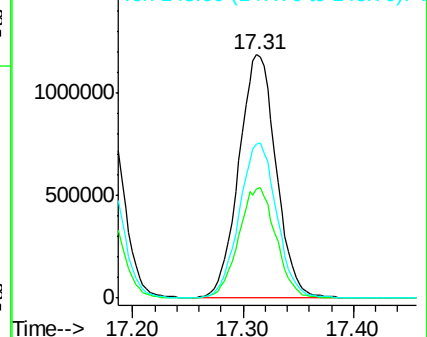
148 64.4 32.1 96.3

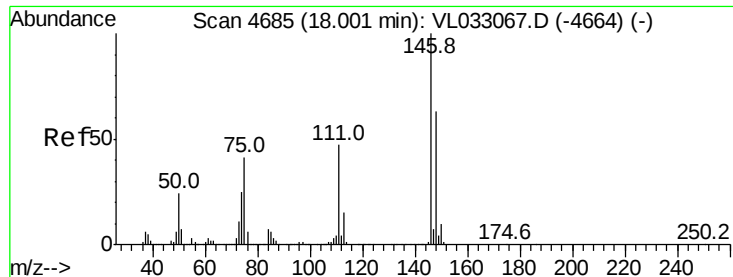


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 11.563 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

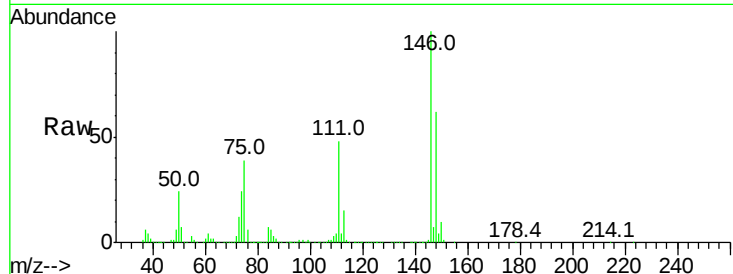
Tgt Ion:146 Resp: 2695470

Ion Ratio Lower Upper

146 100

111 48.2 24.4 73.2

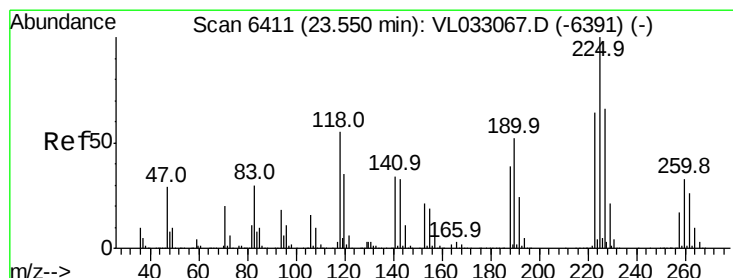
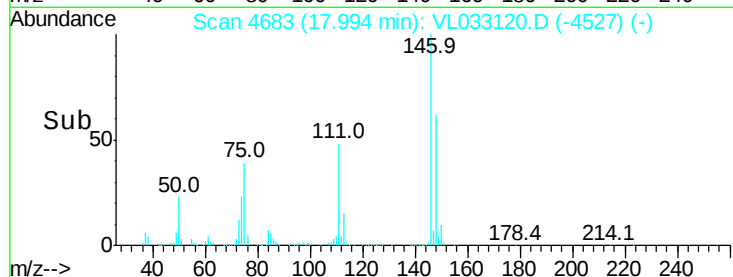
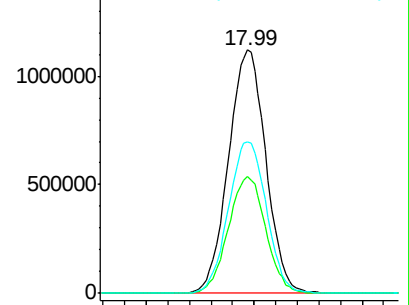
148 63.6 32.6 97.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.780 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. 0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

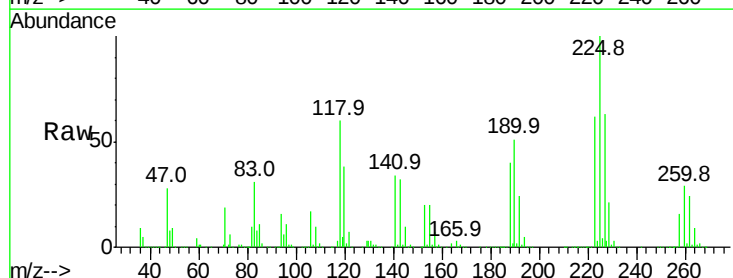
Tgt Ion:225 Resp: 1751121

Ion Ratio Lower Upper

225 100

223 63.3 50.5 75.7

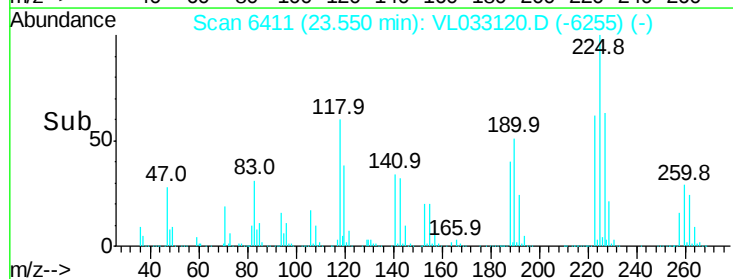
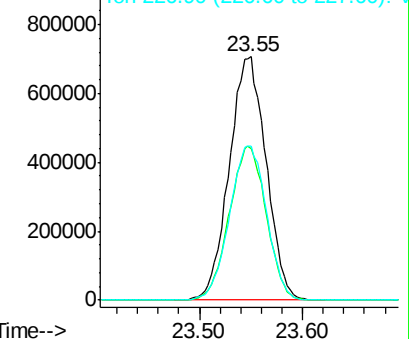
227 63.9 51.0 76.4

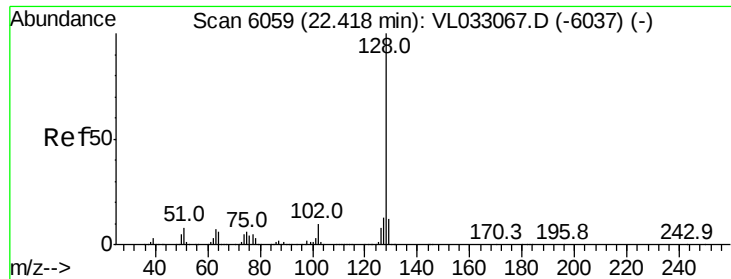


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.287 ppbv

RT: 22.41 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

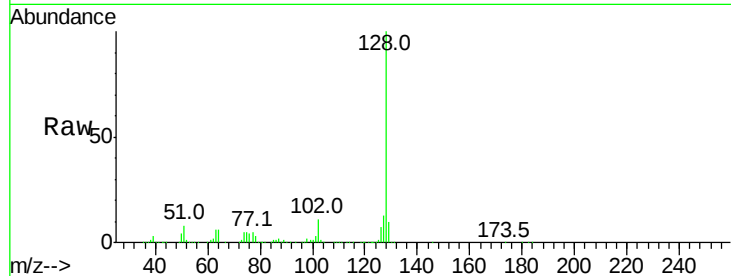
Tgt Ion:128 Resp: 4180982

Ion Ratio Lower Upper

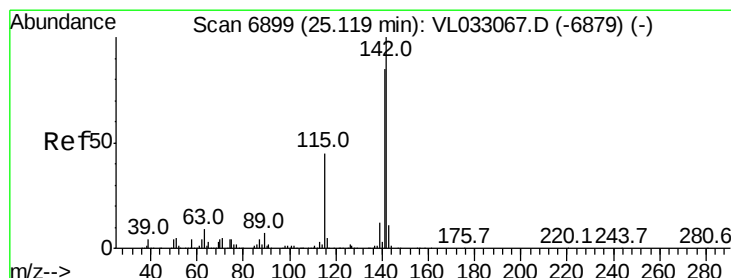
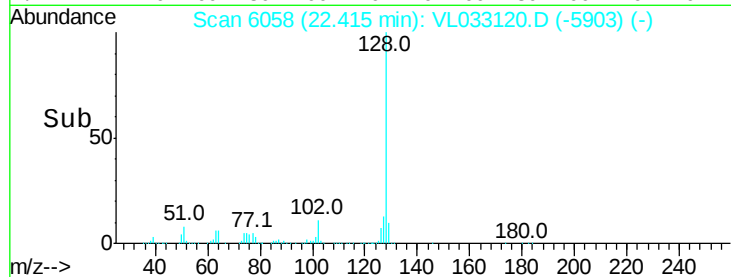
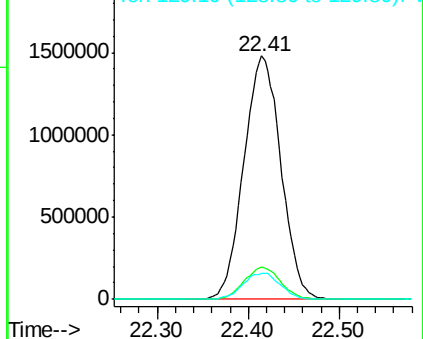
128 100

127 13.1 10.6 15.8

129 10.5 9.2 13.8



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: 13.234 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033120.D

Acq: 28 Jan 2019 20:09

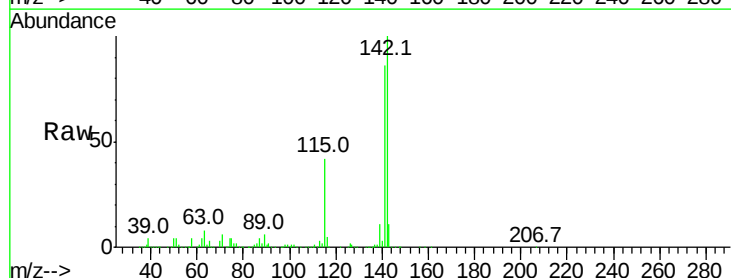
Tgt Ion:142 Resp: 1487612

Ion Ratio Lower Upper

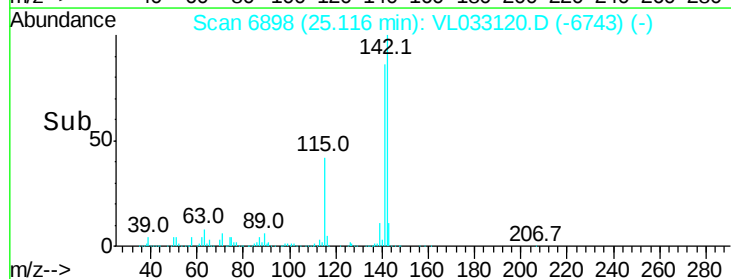
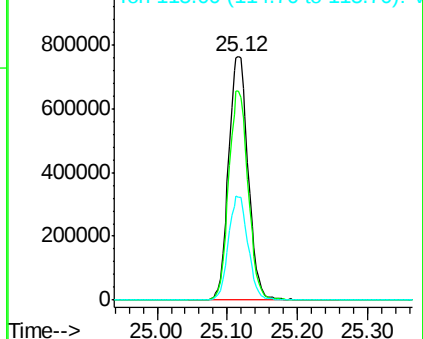
142 100

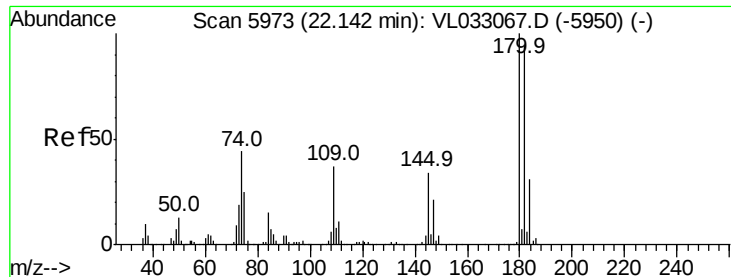
141 85.0 67.4 101.2

115 42.5 34.9 52.3



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

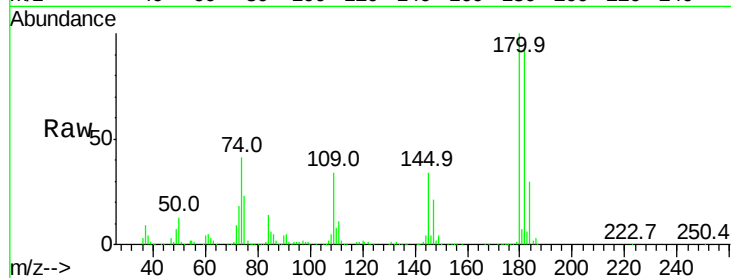




#81  
 1,2,4-Trichlorobenzene  
 Concen: 11.111 ppbv  
 RT: 22.14 min Scan# 5973  
 Delta R.T. 0.01 min  
 Lab File: VL033120.D  
 Acq: 28 Jan 2019 20:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion:180 Resp: 1988363  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 76.5 114.7  
 184 30.3 24.2 36.4



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

