

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\  
 Data File : VL035211.D  
 Acq On : 21 Jul 2020 12:23  
 Operator : SY/AP  
 Sample : VL0721ABS01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

Quant Time: Jul 22 00:47:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 08 07:05:23 2020  
 QLast Update : Wed Jul 08 07:05:23 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1257928  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2958373  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 3514666  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2305983  | 8.08     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 80.80% |

| Target Compounds               |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 1373526 | 7.791  | ppbv 99  |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 1241532 | 8.935  | ppbv 100 |
| 4) Chloromethane               | 3.09 | 50  | 709466  | 9.059  | ppbv 97  |
| 5) Vinyl Chloride              | 3.21 | 62  | 720085  | 8.605  | ppbv 97  |
| 6) Bromomethane                | 3.43 | 94  | 454209  | 9.563  | ppbv 97  |
| 7) Chloroethane                | 3.51 | 64  | 280452  | 9.480  | ppbv 100 |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 1723728 | 8.921  | ppbv 99  |
| 9) Propene                     | 2.96 | 41  | 498191  | 9.487  | ppbv 100 |
| 10) Heptane                    | 8.13 | 43  | 1427843 | 10.592 | ppbv 100 |
| 11) Trichlorofluoromethane     | 3.91 | 101 | 1830179 | 9.193  | ppbv 97  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101 | 1291630 | 9.238  | ppbv 100 |
| 13) Ethanol                    | 3.56 | 45  | 128860  | 7.708  | ppbv 91  |
| 14) Bromoethene                | 3.70 | 108 | 542087  | 9.421  | ppbv 97  |
| 15) Acetone                    | 3.81 | 43  | 1383563 | 8.124  | ppbv 99  |
| 16) 1,3-Butadiene              | 3.28 | 39  | 643376  | 9.842  | ppbv 99  |
| 17) tert-Butyl alcohol         | 4.26 | 59  | 1527355 | 10.136 | ppbv 100 |
| 18) 1,1-Dichloroethene         | 4.25 | 96  | 589893  | 9.529  | ppbv 97  |
| 19) Isopropyl Alcohol          | 3.93 | 45  | 997660  | 9.710  | ppbv 99  |
| 20) Methylene Chloride         | 4.31 | 84  | 557236  | 7.520  | ppbv 98  |
| 21) Allyl Chloride             | 4.38 | 41  | 952399  | 9.608  | ppbv 99  |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 589189  | 9.533  | ppbv 98  |
| 23) Vinyl Acetate              | 5.05 | 43  | 1792366 | 9.723  | ppbv 99  |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 1464517 | 9.251  | ppbv 99  |
| 25) Ethyl Acetate              | 5.66 | 43  | 2514009 | 9.512  | ppbv 99  |
| 26) Hexane                     | 5.67 | 57  | 1143073 | 9.809  | ppbv 99  |
| 27) Carbon Disulfide           | 4.52 | 76  | 1583758 | 9.733  | ppbv 98  |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 1748510 | 9.849  | ppbv 100 |
| 29) Chloroform                 | 5.74 | 83  | 1827250 | 9.353  | ppbv 97  |
| 30) Cyclohexane                | 7.13 | 84  | 938328  | 10.883 | ppbv 100 |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 1097411 | 9.956  | ppbv 99  |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 1812571 | 9.258  | ppbv 98  |
| 34) 2-Butanone                 | 5.22 | 43  | 1538759 | 9.745  | ppbv 99  |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 1868418 | 9.729  | ppbv 98  |
| 36) Benzene                    | 6.89 | 78  | 2210818 | 10.325 | ppbv 97  |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1398168 | 9.730  | ppbv 100 |
| 38) Trichloroethene            | 7.84 | 130 | 888392  | 10.183 | ppbv 98  |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 865007  | 10.159 | ppbv 93  |
| 40) 1,4-Dioxane                | 7.83 | 88  | 161713  | 4.771  | ppbv # 1 |
| 41) Tetrahydrofuran            | 6.03 | 42  | 851265  | 10.774 | ppbv 98  |
| 42) Bromodichloromethane       | 7.80 | 83  | 1949865 | 10.162 | ppbv 99  |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1020116 | 11.270 | ppbv 99  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\  
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 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

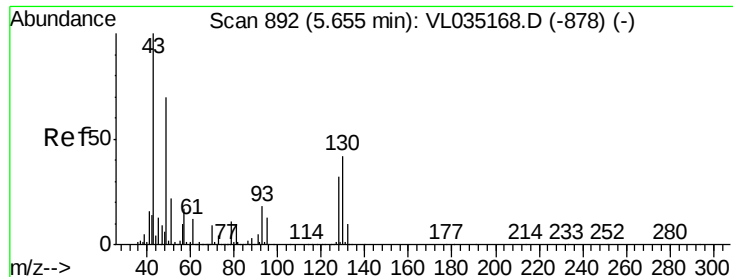
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

Quant Time: Jul 22 00:47:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 08 07:05:23 2020  
 QLast Update : Wed Jul 08 07:05:23 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 3875398  | 10.486 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1147022  | 12.062 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 1341036  | 11.896 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 945745   | 10.147 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.32 | 129  | 1617361  | 10.665 | ppbv   | 97       |
| 49) Bromoform                 | 13.07 | 173  | 1432398  | 10.798 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2391945  | 10.555 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.15 | 43   | 1924442  | 11.137 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.24 | 164  | 795925   | 9.952  | ppbv   | 97       |
| 53) Toluene                   | 9.82  | 91   | 2612962  | 11.563 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 1456206  | 10.528 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 1259458  | 8.088  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.17 | 112  | 2061792  | 7.959  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.73 | 91   | 3565130  | 9.177  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.02 | 91   | 3080731  | 8.898  | ppbv # | 33       |
| 60) o-Xylene                  | 13.72 | 91   | 3021861  | 8.748  | ppbv   | 99       |
| 61) Styrene                   | 13.56 | 104  | 2093627  | 9.808  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.70 | 105  | 4417391  | 8.628  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 2151648  | 7.454  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.60 | 120  | 1169514  | 8.842  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 3929880  | 8.546  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.03 | 91   | 1576758  | 9.624  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.33 | 105  | 5591310  | 8.340  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 4638806  | 8.828  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.59 | 91   | 4785334  | 8.589  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 3402235  | 8.781  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 3527301  | 9.063  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 3295594  | 8.780  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 3450012  | 8.318  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.04 | 146  | 1936861  | 7.374  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 1967559  | 8.060  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.86 | 146  | 1916937  | 8.105  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 1392413  | 7.451  | ppbv   | 99       |
| 79) Naphthalene               | 22.26 | 128  | 2896797  | 10.793 | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 1065567  | 16.807 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.99 | 180  | 1601226  | 9.417  | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

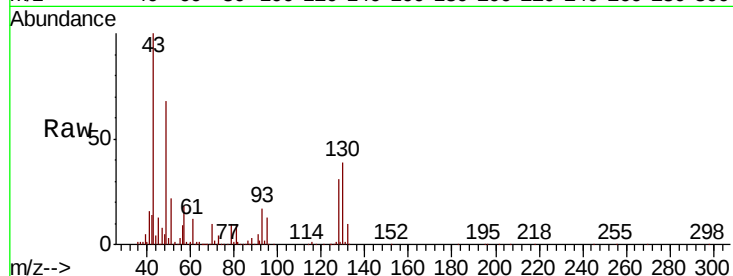
Tot Ion: 49 Resp: 1257928

Ion Ratio Lower Upper

49 100

128 46.8 23.8 71.4

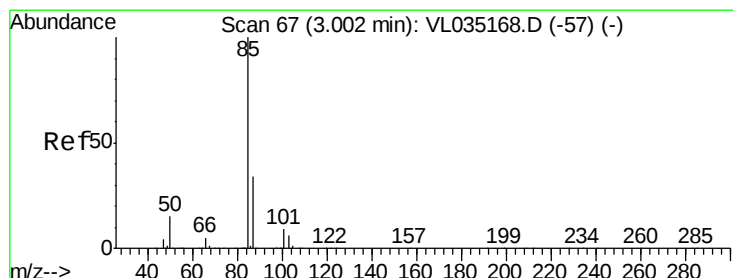
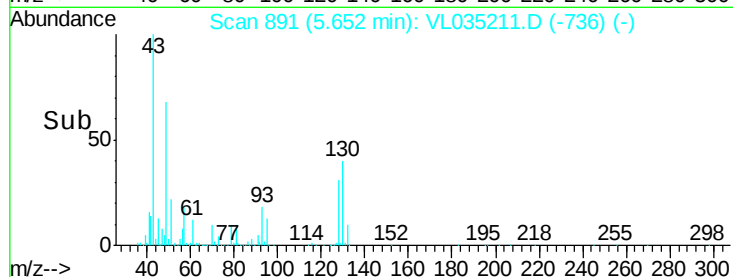
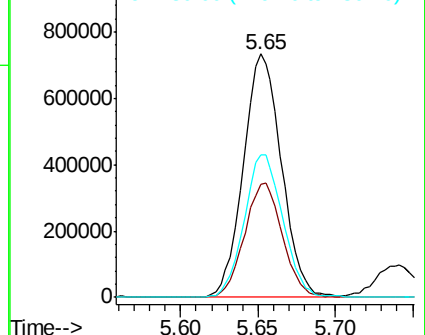
130 59.8 29.9 89.8



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: 7.791 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL035211.D

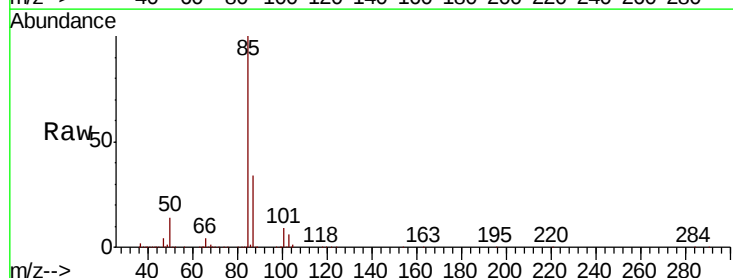
Acq: 21 Jul 2020 12:23

Tgt Ion: 85 Resp: 1373526

Ion Ratio Lower Upper

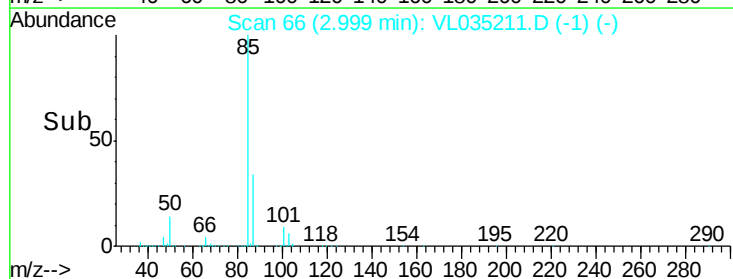
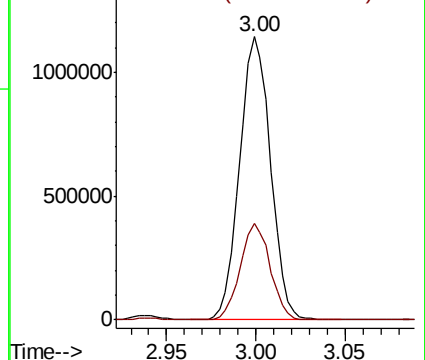
85 100

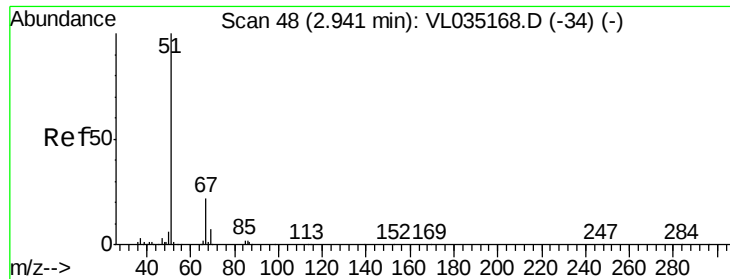
87 34.3 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

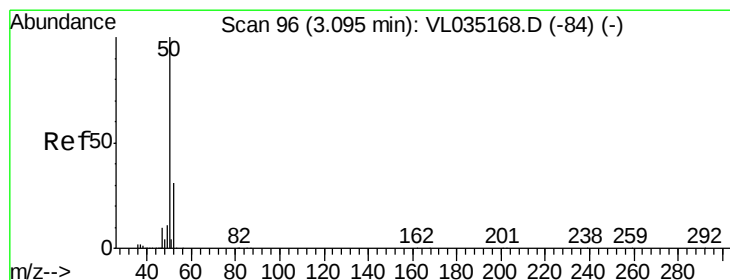
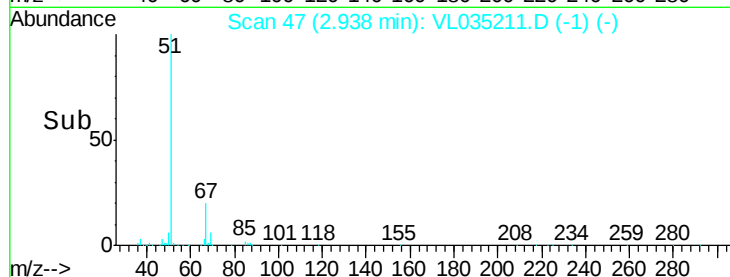
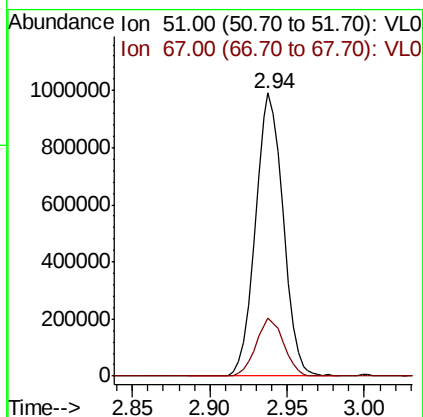
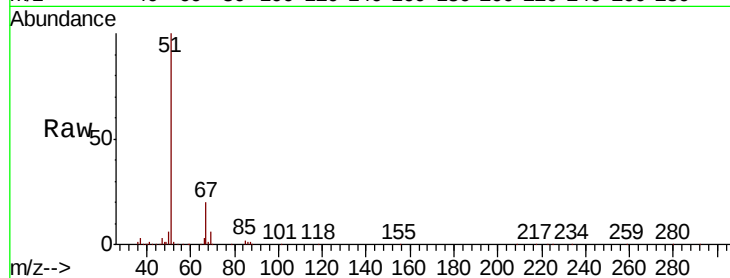




#3  
 Chlorodifluoromethane  
 Concen: 8.935 ppbv  
 RT: 2.94 min Scan# 47  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

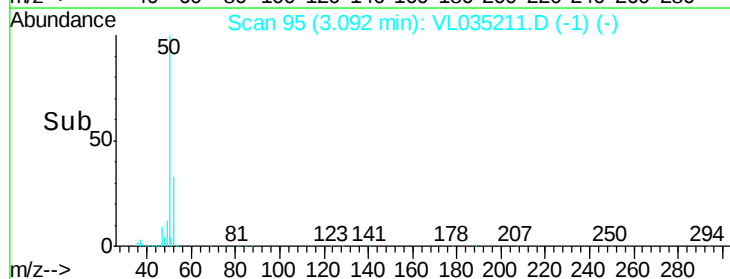
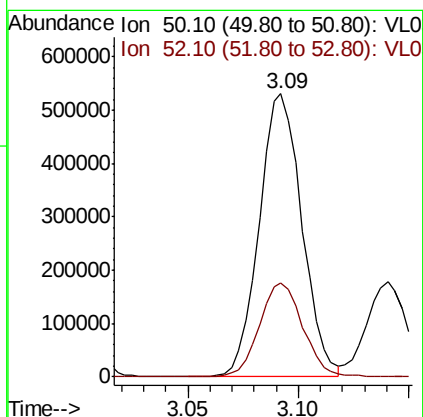
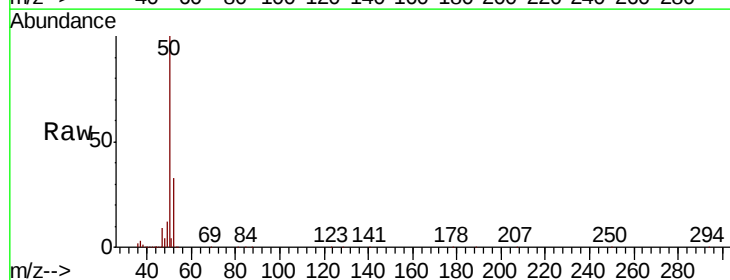
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

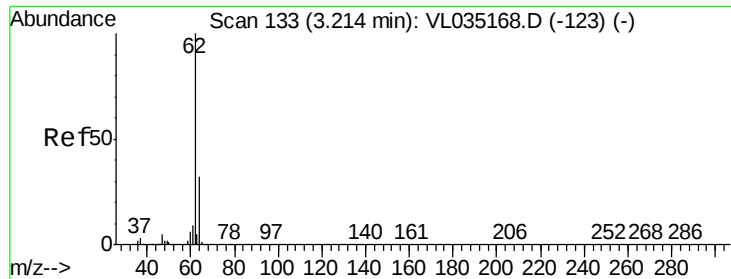
Tot Ion: 51 Resp: 1241532  
 Ion Ratio Lower Upper  
 51 100  
 67 20.6 16.6 24.8



#4  
 Chloromethane  
 Concen: 9.059 ppbv  
 RT: 3.09 min Scan# 95  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 50 Resp: 709466  
 Ion Ratio Lower Upper  
 50 100  
 52 33.2 25.0 37.6





#5

Vinyl Chloride

Concen: 8.605 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

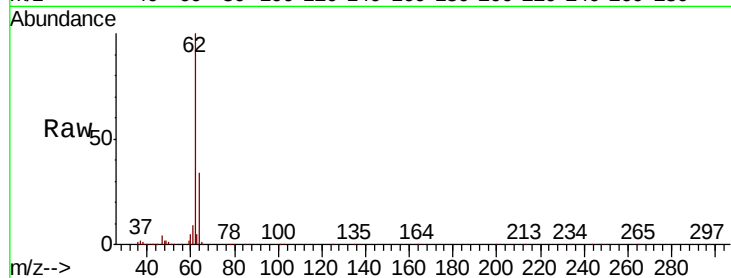
VL0721ABS01

Tot Ion: 62 Resp: 720085

Ion Ratio Lower Upper

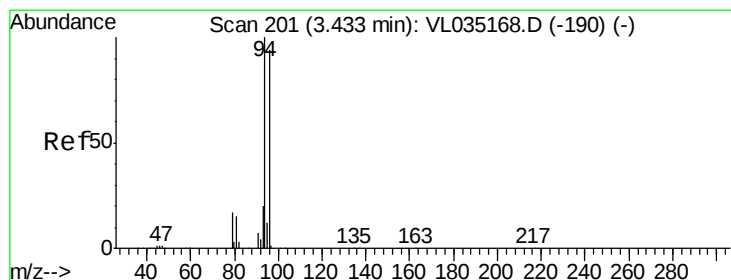
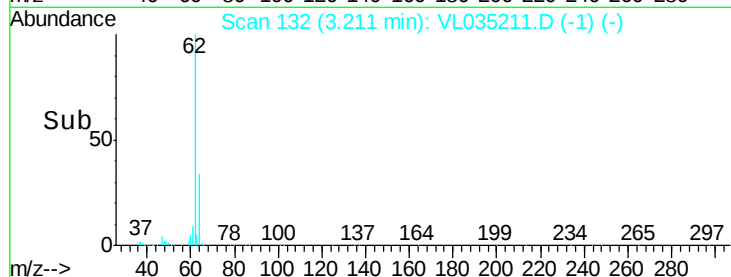
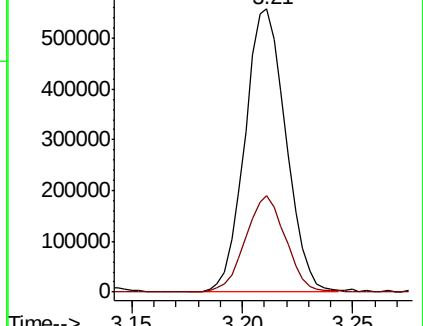
62 100

64 33.9 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.563 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035211.D

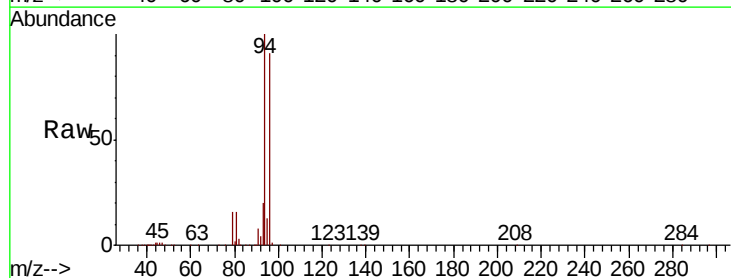
Acq: 21 Jul 2020 12:23

Tgt Ion: 94 Resp: 454209

Ion Ratio Lower Upper

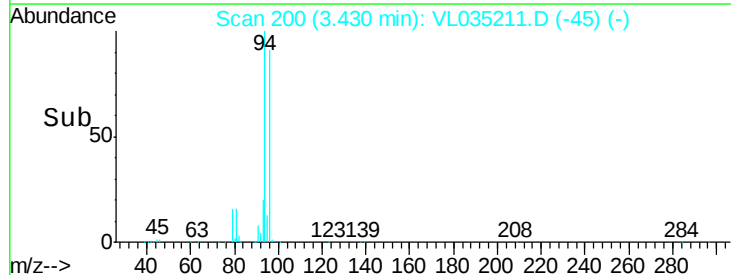
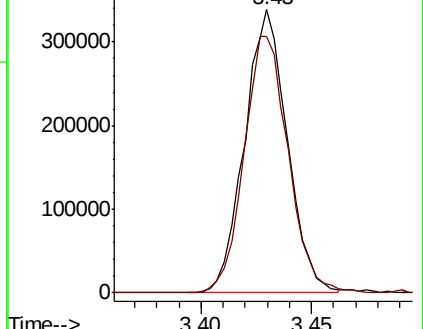
94 100

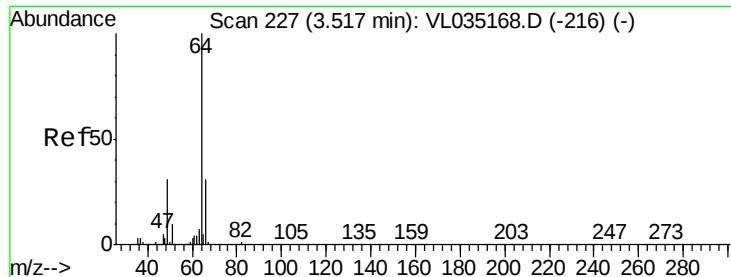
96 90.8 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.480 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

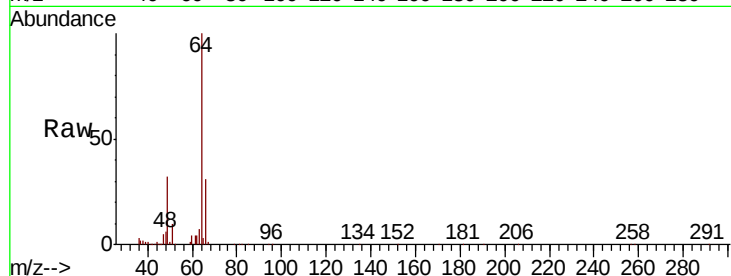
VL0721ABS01

Tot Ion: 64 Resp: 280452

Ion Ratio Lower Upper

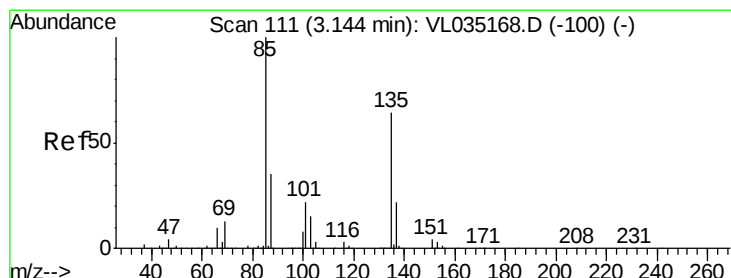
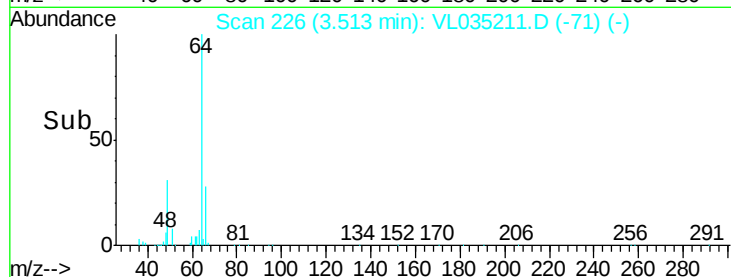
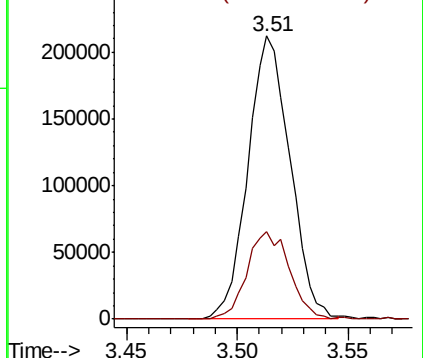
64 100

66 30.8 24.6 36.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.921 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035211.D

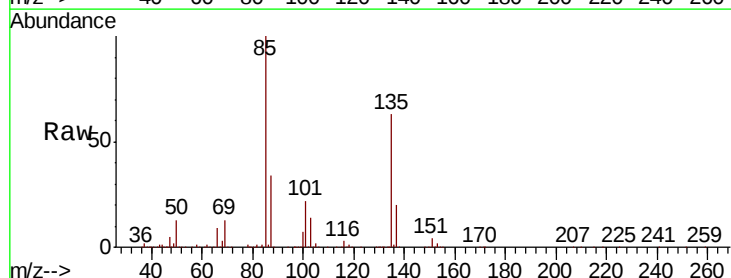
Acq: 21 Jul 2020 12:23

Tgt Ion: 85 Resp: 1723728

Ion Ratio Lower Upper

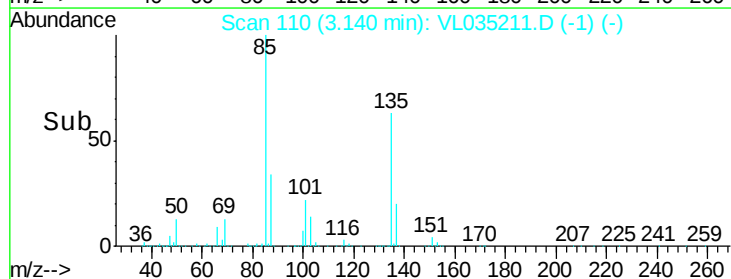
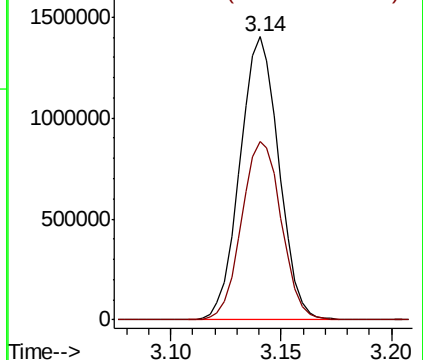
85 100

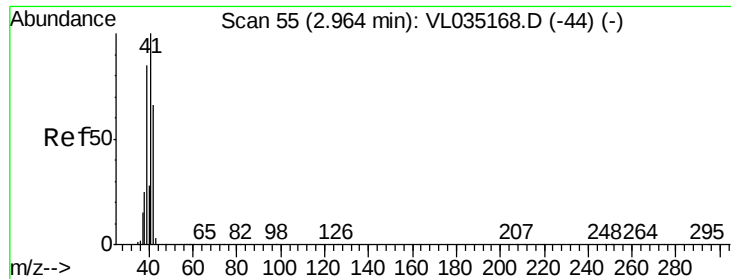
135 64.5 52.1 78.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.487 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

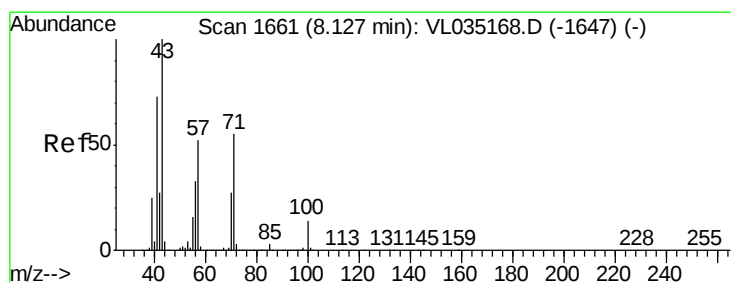
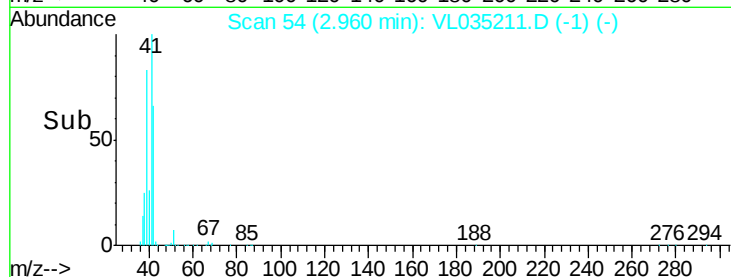
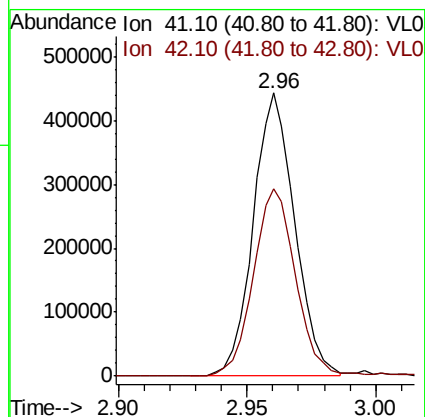
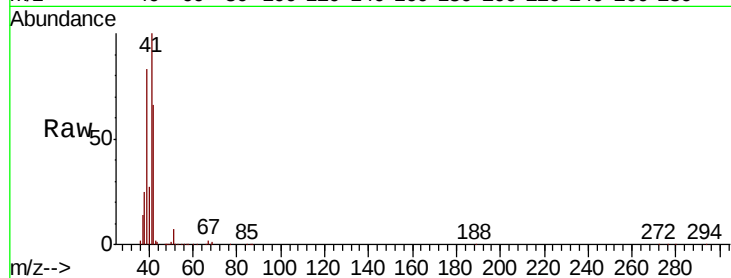
VL0721ABS01

Tot Ion: 41 Resp: 498191

Ion Ratio Lower Upper

41 100

42 68.3 54.6 81.8



#10

Heptane

Concen: 10.592 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035211.D

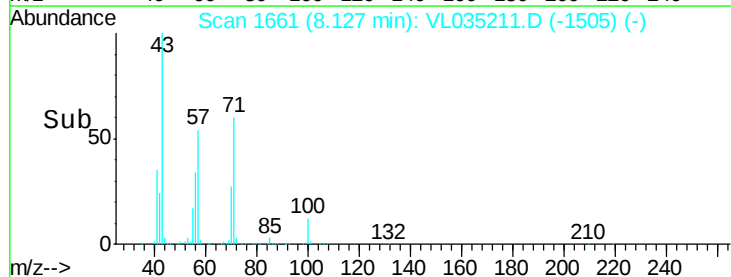
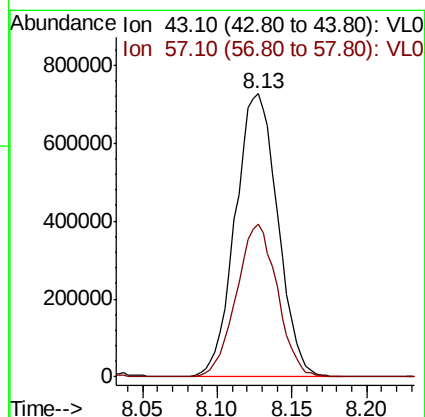
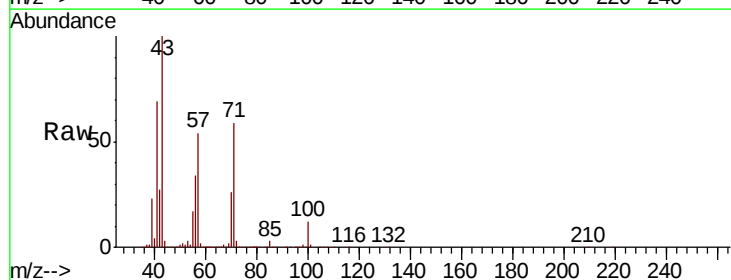
Acq: 21 Jul 2020 12:23

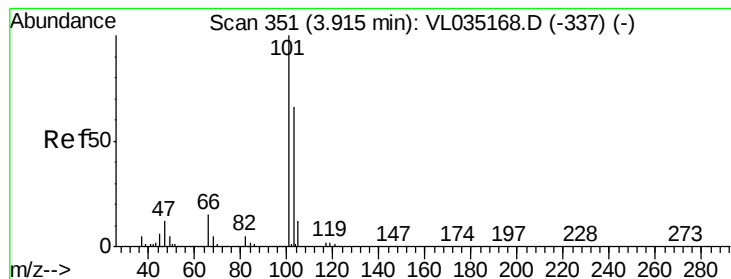
Tgt Ion: 43 Resp: 1427843

Ion Ratio Lower Upper

43 100

57 52.3 41.8 62.6





#11

Trichlorofluoromethane

Concen: 9.193 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

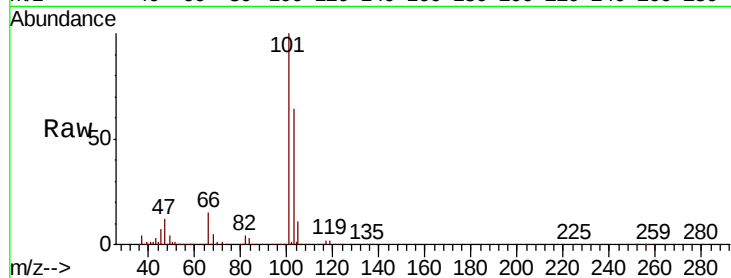
VL0721ABS01

Tot Ion:101 Resp: 1830179

Ion Ratio Lower Upper

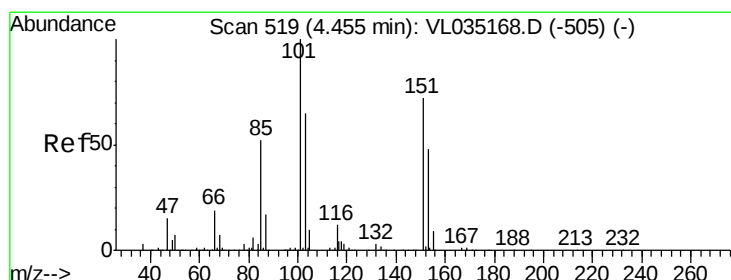
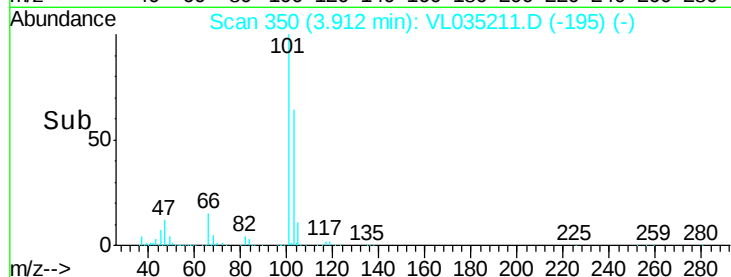
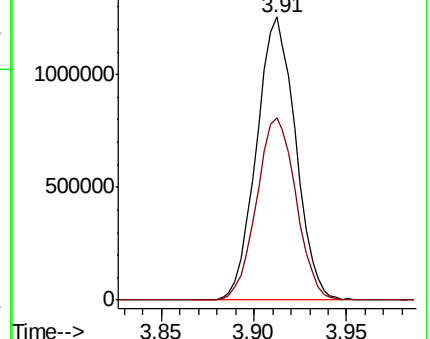
101 100

103 64.2 53.1 79.7



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: 9.238 ppbv

RT: 4.45 min Scan# 518

Delta R.T. -0.00 min

Lab File: VL035211.D

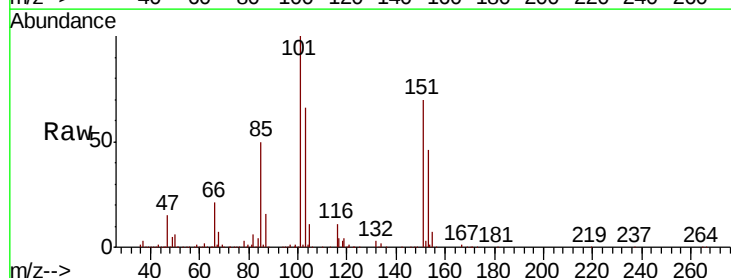
Acq: 21 Jul 2020 12:23

Tgt Ion:101 Resp: 1291630

Ion Ratio Lower Upper

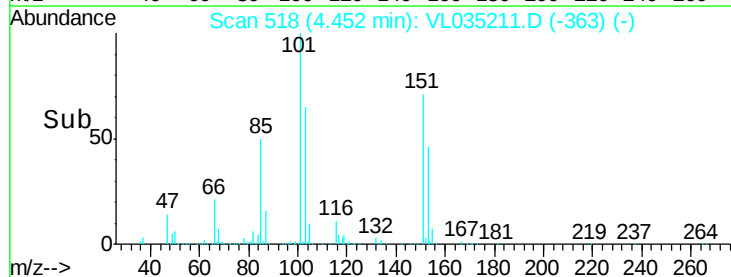
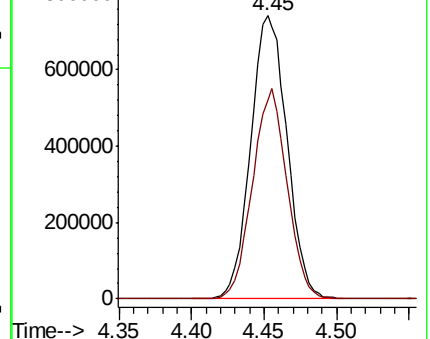
101 100

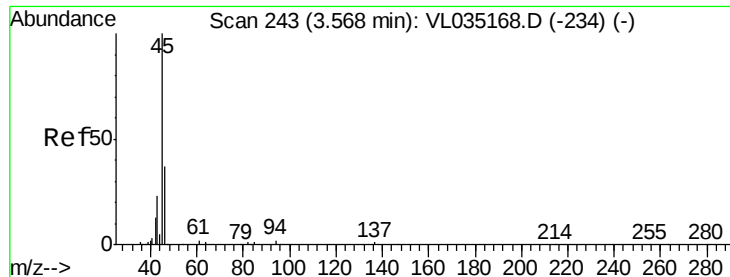
151 71.0 57.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.708 ppbv

RT: 3.56 min Scan# 242

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

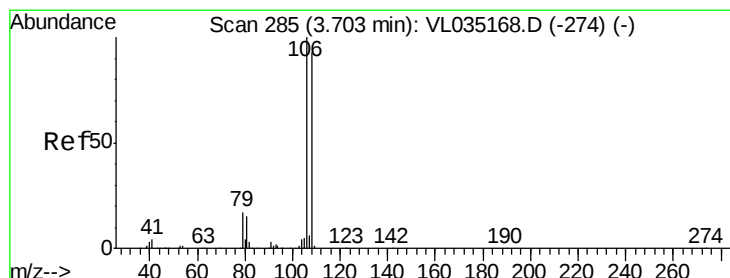
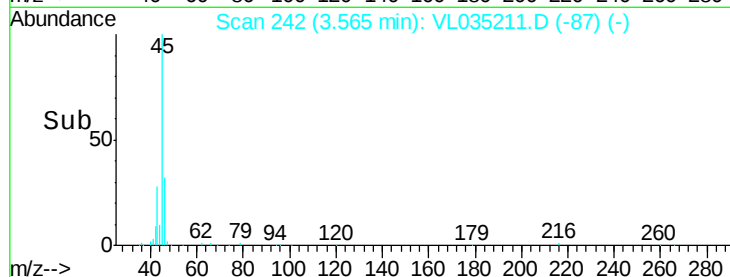
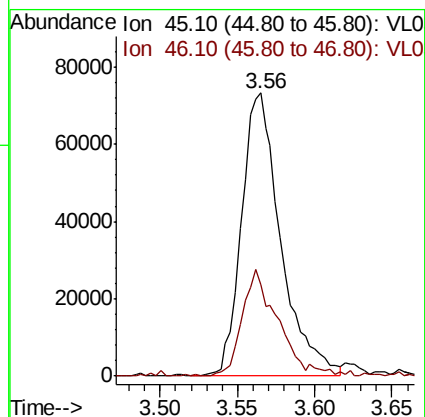
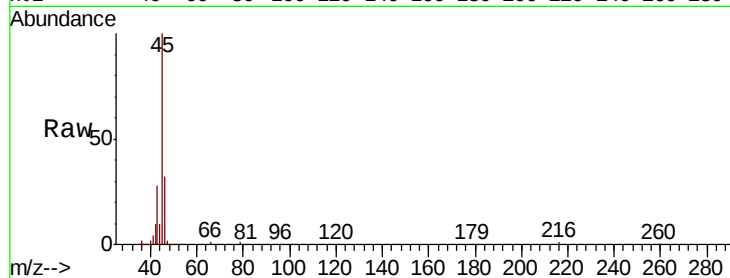
VL0721ABS01

Tot Ion: 45 Resp: 128860

Ion Ratio Lower Upper

45 100

46 35.0 16.2 65.0



#14

Bromoethene

Concen: 9.421 ppbv

RT: 3.70 min Scan# 284

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

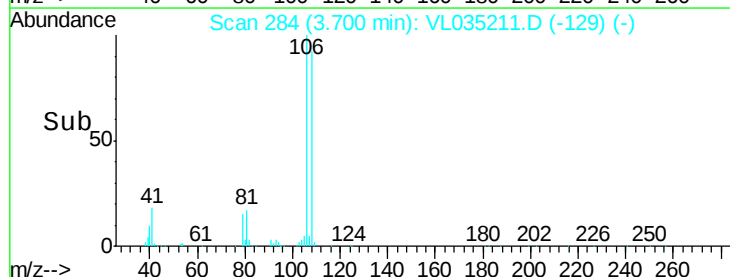
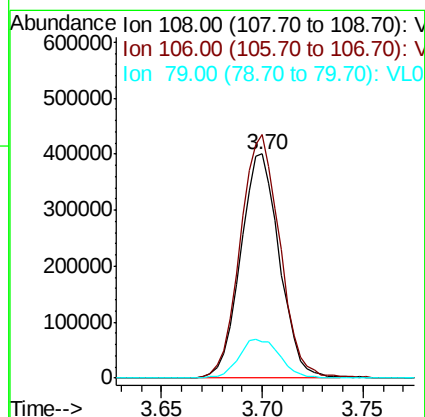
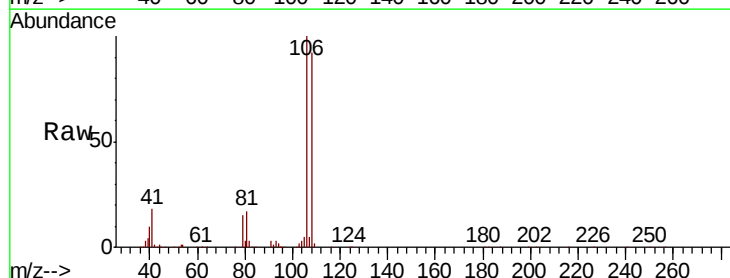
Tgt Ion: 108 Resp: 542087

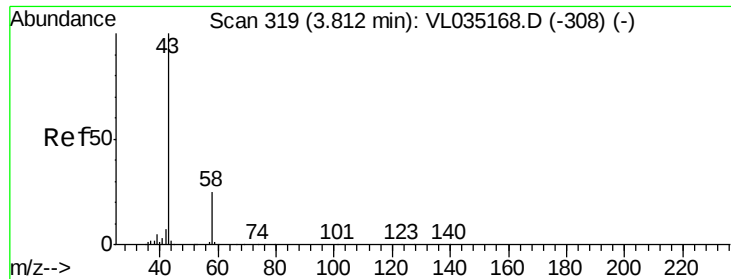
Ion Ratio Lower Upper

108 100

106 110.9 86.2 129.2

79 18.8 15.0 22.6





#15

Acetone

Concen: 8.124 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

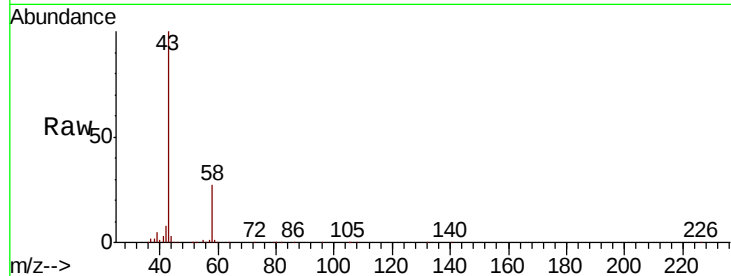
VL0721ABS01

Tot Ion: 43 Resp: 1383563

Ion Ratio Lower Upper

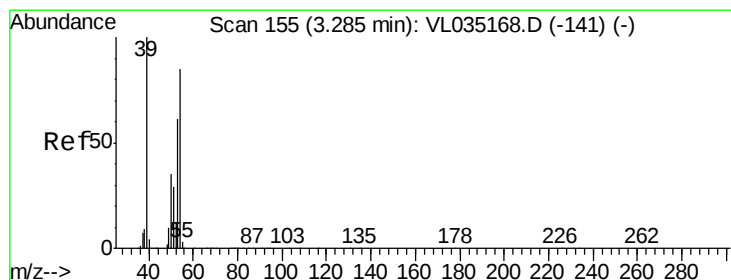
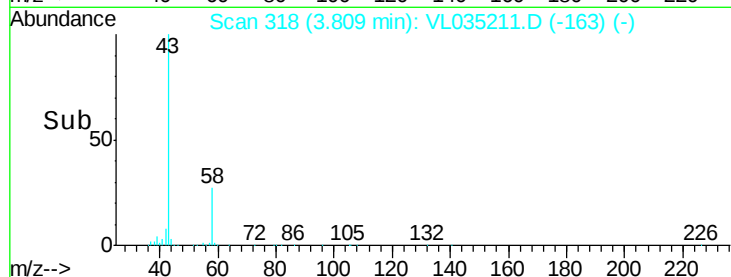
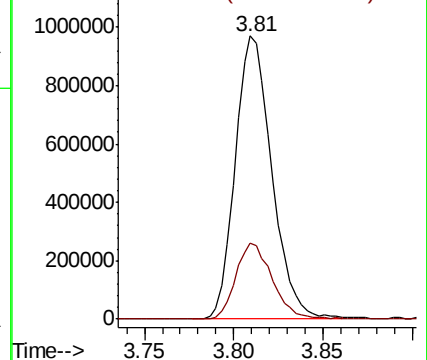
43 100

58 27.1 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.842 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035211.D

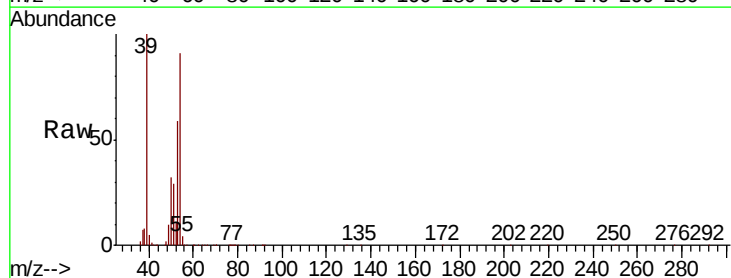
Acq: 21 Jul 2020 12:23

Tgt Ion: 39 Resp: 643376

Ion Ratio Lower Upper

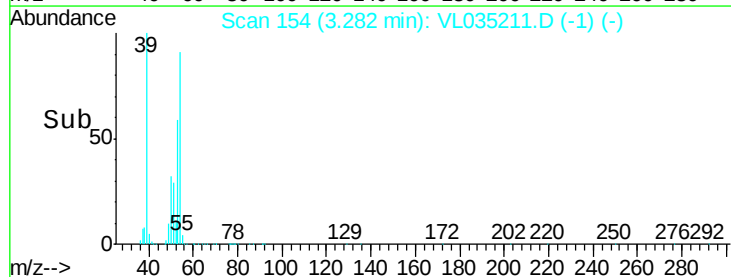
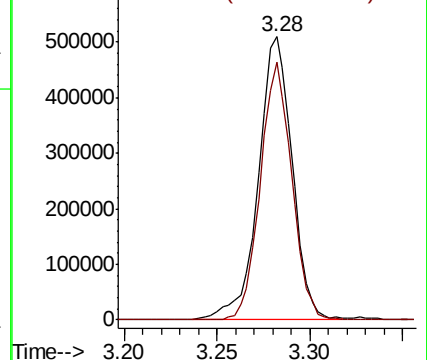
39 100

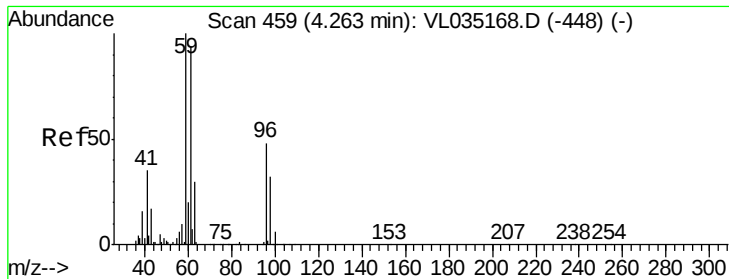
54 85.1 67.2 100.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



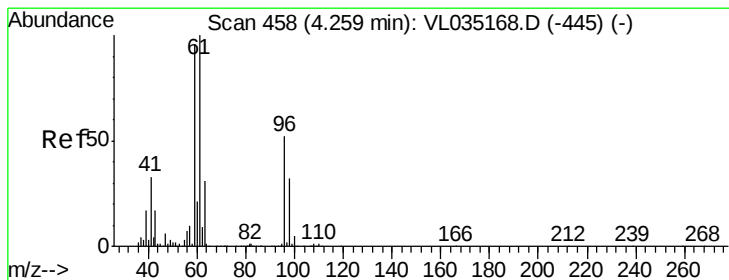
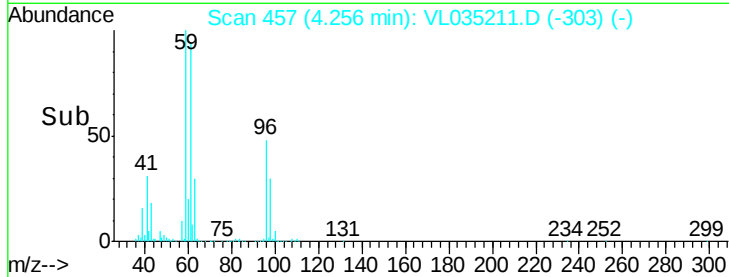
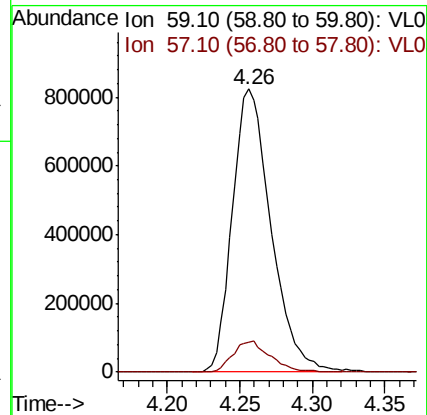
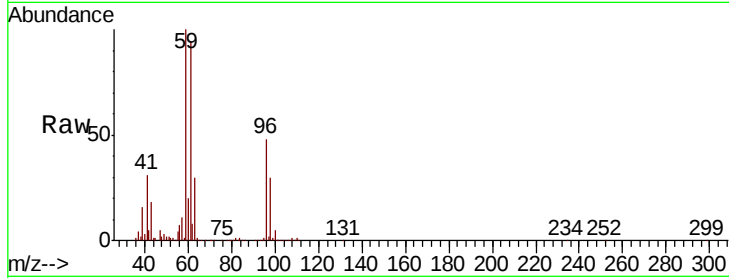


#17

tert-Butyl alcohol  
 Concen: 10.136 ppbv  
 RT: 4.26 min Scan# 457  
 Delta R.T. -0.01 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VL0721ABS01

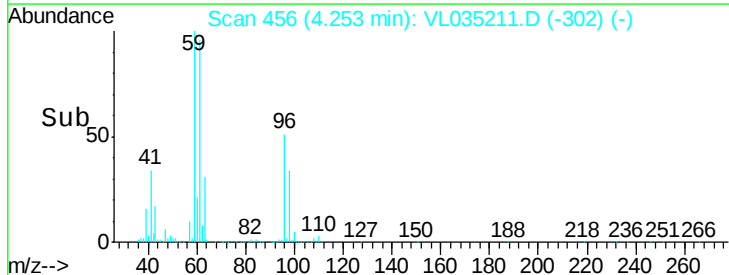
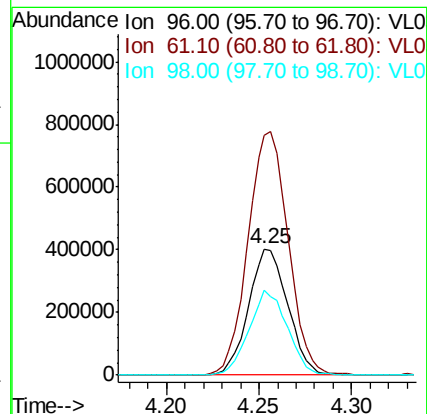
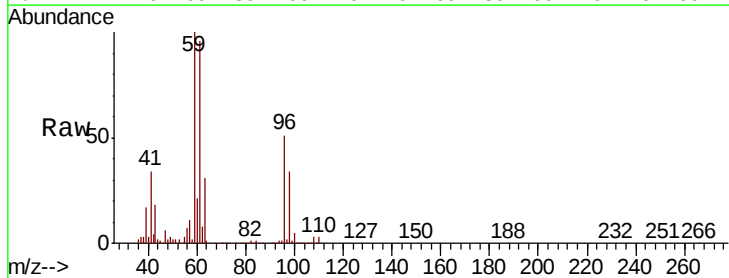
Tot Ion: 59 Resp: 1527355  
 Ion Ratio Lower Upper  
 59 100  
 57 10.9 8.6 12.8

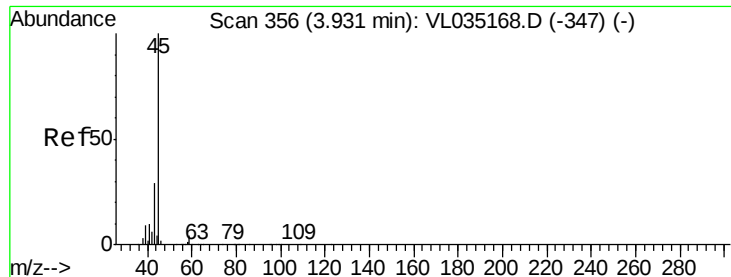


#18

1,1-Dichloroethene  
 Concen: 9.529 ppbv  
 RT: 4.25 min Scan# 456  
 Delta R.T. -0.01 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 96 Resp: 589893  
 Ion Ratio Lower Upper  
 96 100  
 61 189.3 152.9 229.3  
 98 67.6 48.7 73.1



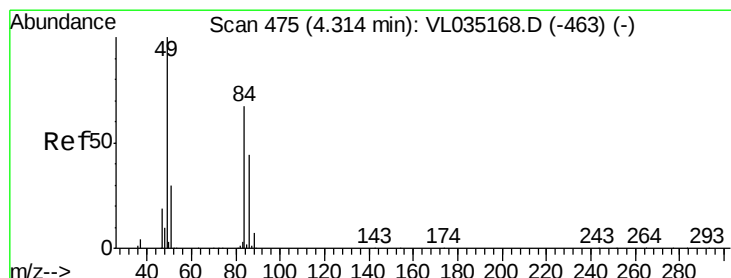
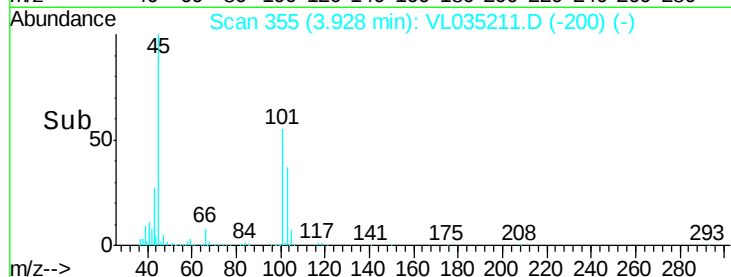
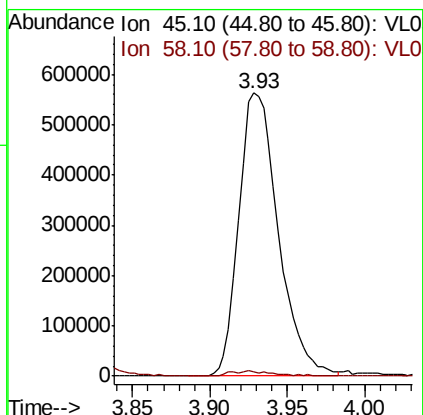
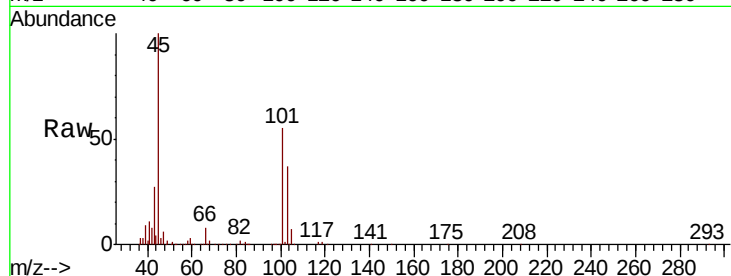


#19

Isopropyl Alcohol  
 Concen: 9.710 ppbv  
 RT: 3.93 min Scan# 355  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

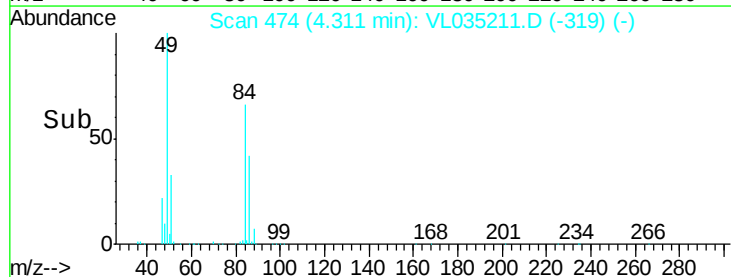
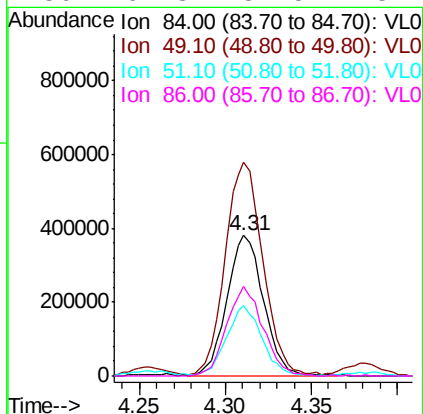
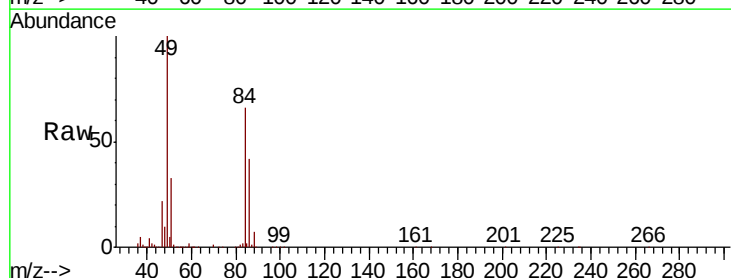
Tot Ion: 45 Resp: 997660  
 Ion Ratio Lower Upper  
 45 100  
 58 2.4 2.1 3.1

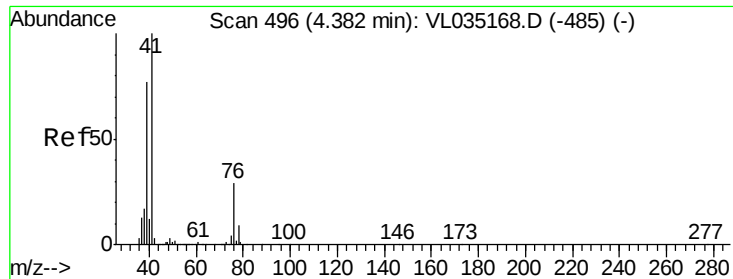


#20

Methylene Chloride  
 Concen: 7.520 ppbv  
 RT: 4.31 min Scan# 474  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 84 Resp: 557236  
 Ion Ratio Lower Upper  
 84 100  
 49 151.5 119.4 179.0  
 51 49.0 36.6 55.0  
 86 64.3 52.5 78.7

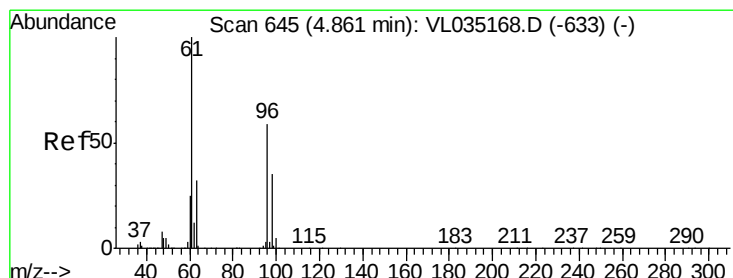
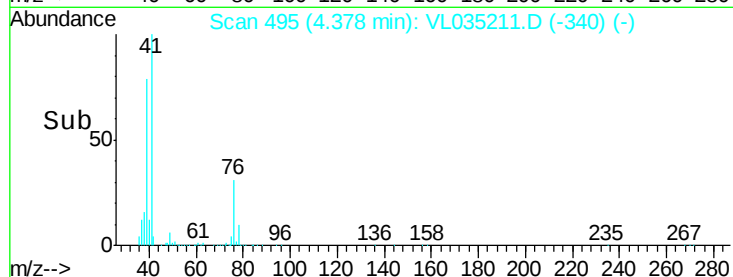
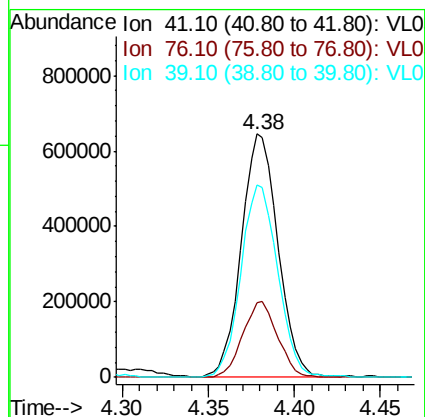
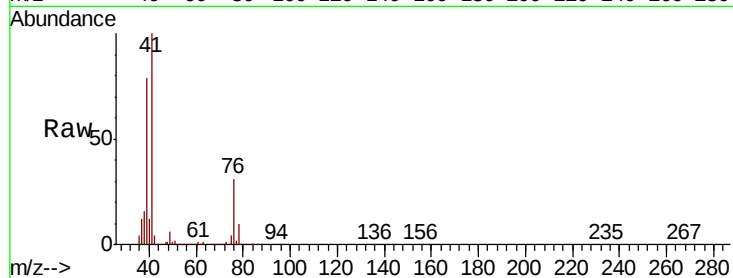




#21  
Allvl Chloride  
Concen: 9.608 ppbv  
RT: 4.38 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

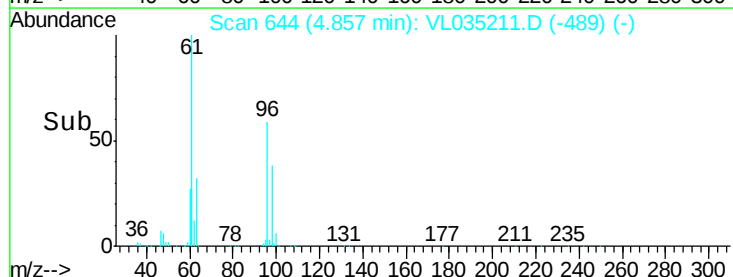
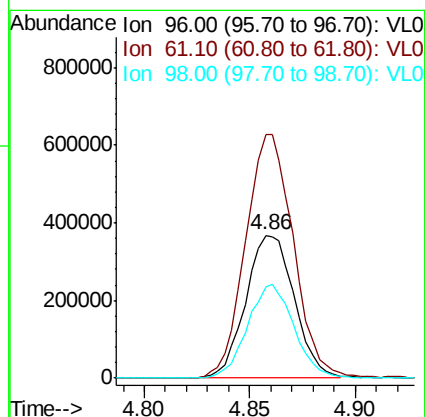
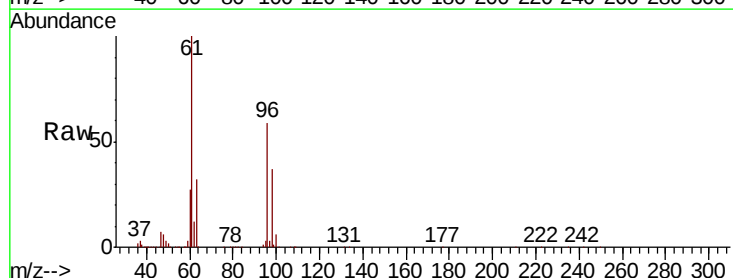
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

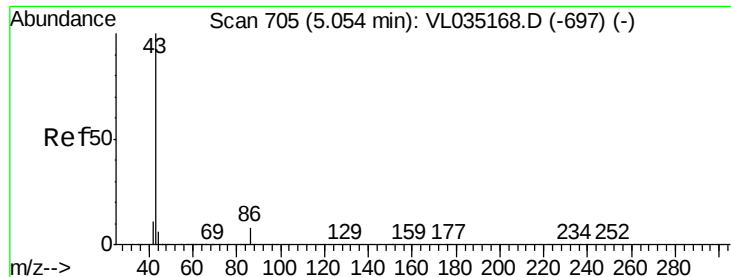
Tot Ion: 41 Resp: 952399  
Ion Ratio Lower Upper  
41 100  
76 29.9 23.5 35.3  
39 79.7 63.4 95.0



#22  
trans-1,2-Dichloroethene  
Concen: 9.533 ppbv  
RT: 4.86 min Scan# 644  
Delta R.T. -0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion: 96 Resp: 589189  
Ion Ratio Lower Upper  
96 100  
61 170.3 136.5 204.7  
98 63.8 47.5 71.3





#23

Vinyl Acetate

Concen: 9.723 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

Tot Ion: 43 Resp: 1792366

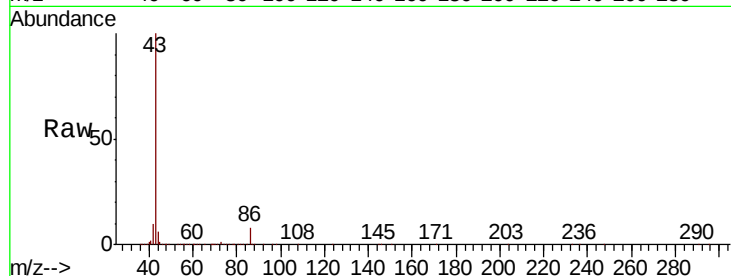
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.8   | 6.2   | 9.2   |
| 42  | 10.4  | 9.1   | 13.7  |
| 44  | 5.6   | 4.6   | 6.8   |

43 100

86 7.8 6.2 9.2

42 10.4 9.1 13.7

44 5.6 4.6 6.8



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

1500000

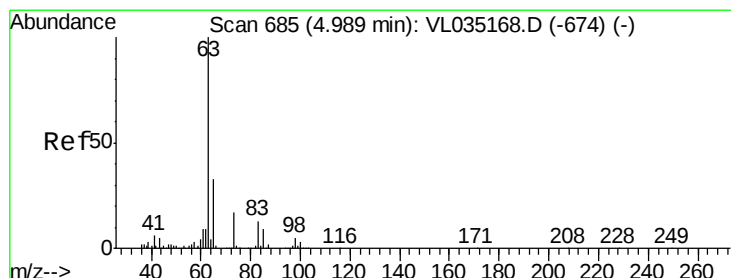
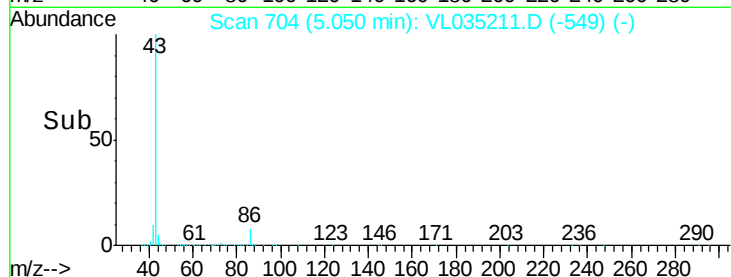
1000000

500000

0

5.00 5.05 5.10

Time-->



#24

1,1-Dichloroethane

Concen: 9.251 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

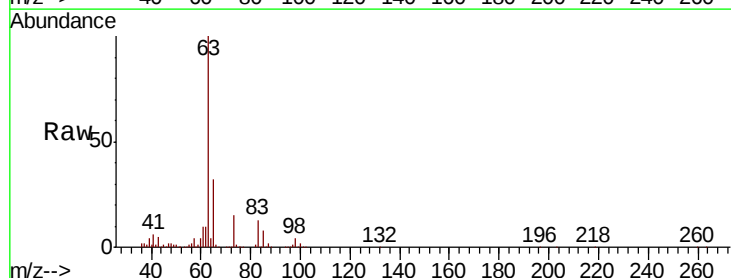
Tgt Ion: 63 Resp: 1464517

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.3   | 2.4   | 7.1   |
| 100 | 2.2   | 1.4   | 4.0   |

63 100

98 4.3 2.4 7.1

100 2.2 1.4 4.0



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

1200000

1000000

800000

600000

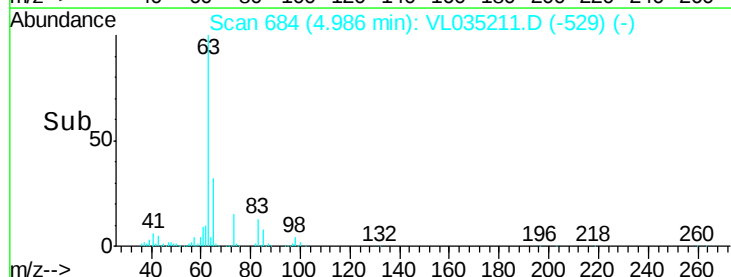
400000

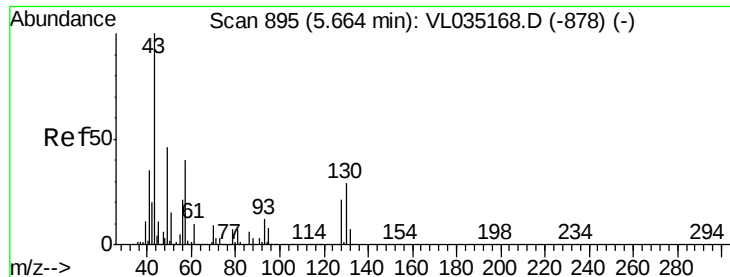
200000

0

4.90 4.95 5.00 5.05

Time-->



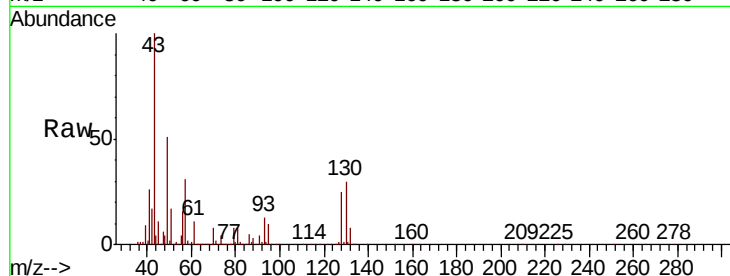


#25  
Ethyl Acetate  
Concen: 9.512 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.01 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

Tot Ion: 43 Resp: 2514009

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.4  | 8.5   | 12.7  |
| 61  | 9.9   | 8.1   | 12.1  |
| 70  | 8.0   | 6.3   | 9.5   |



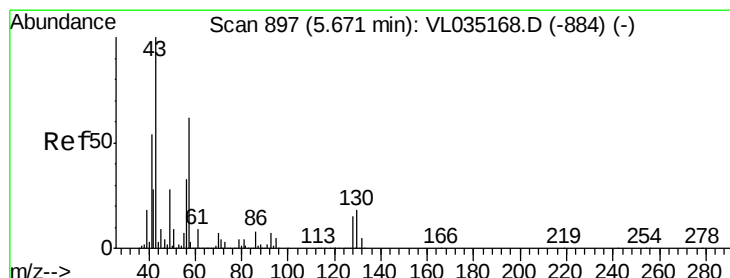
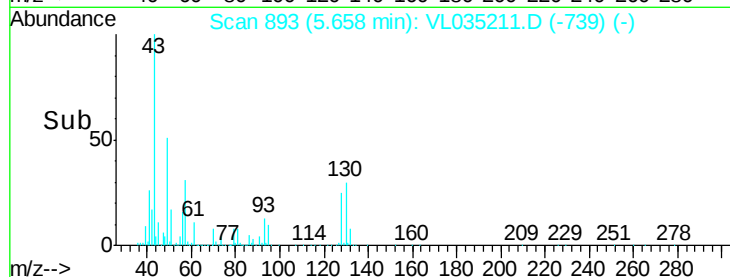
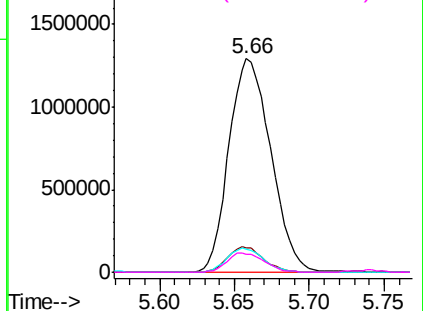
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 9.809 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion: 57 Resp: 1143073

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.5  | 72.9  | 109.3 |
| 43  | 222.2 | 179.5 | 269.3 |
| 56  | 53.9  | 42.9  | 64.3  |

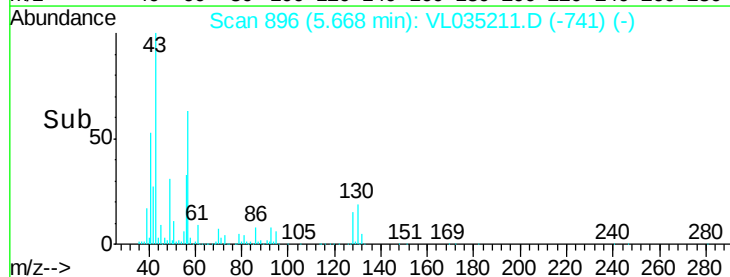
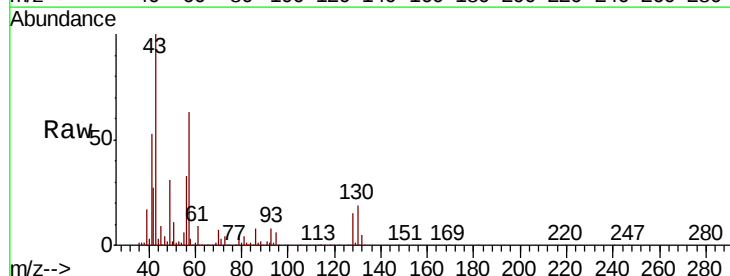
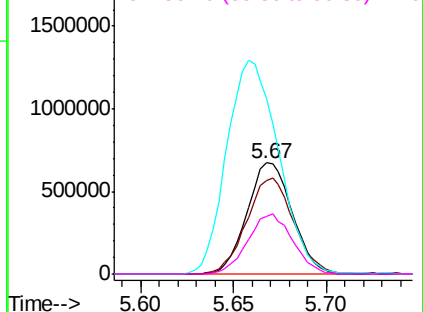
Abundance

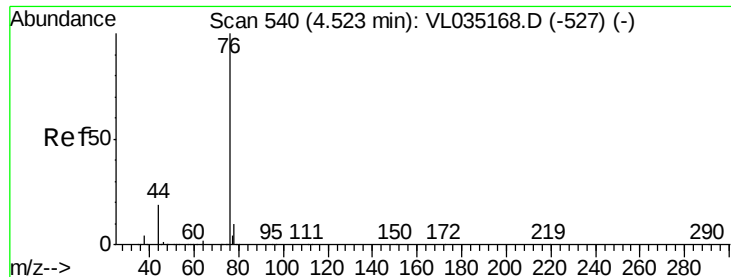
Ion 57.10 (56.80 to 57.80): VL0

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: 9.733 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

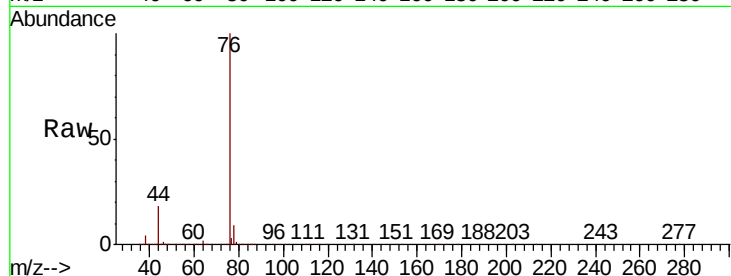
Tot Ion: 76 Resp: 1583758

Ion Ratio Lower Upper

76 100

44 20.0 14.9 22.3

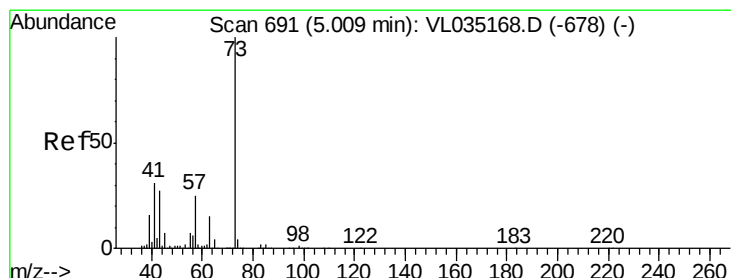
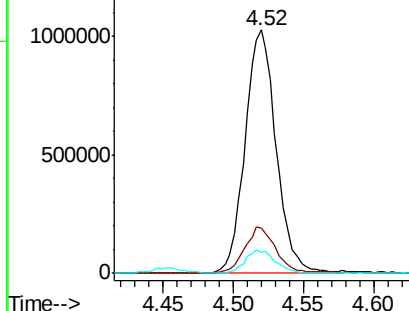
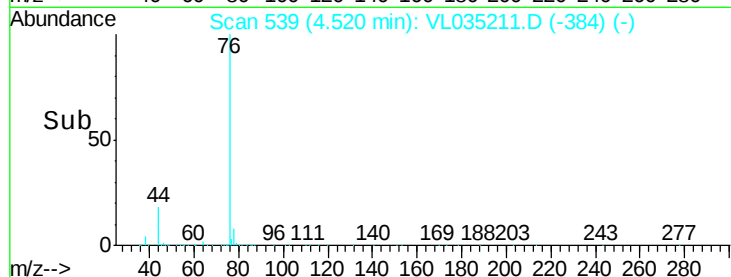
78 9.3 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.849 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL035211.D

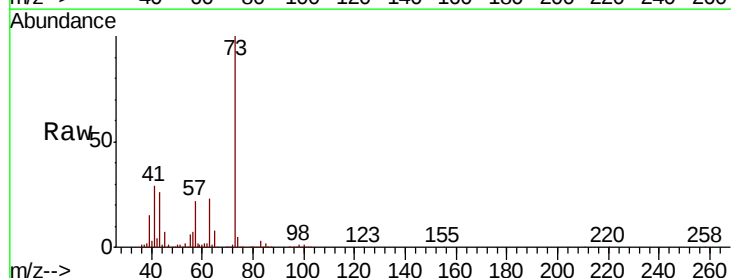
Acq: 21 Jul 2020 12:23

Tgt Ion: 73 Resp: 1748510

Ion Ratio Lower Upper

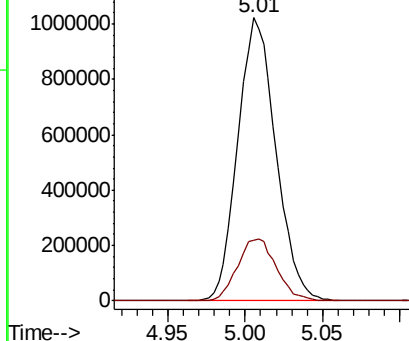
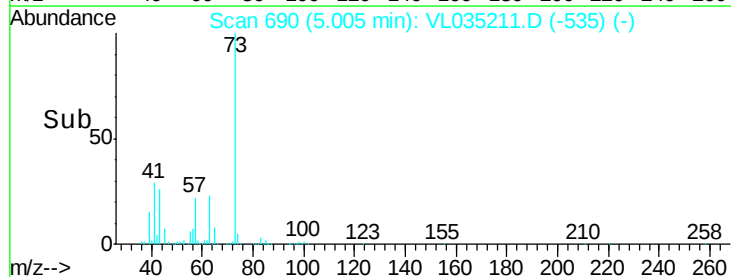
73 100

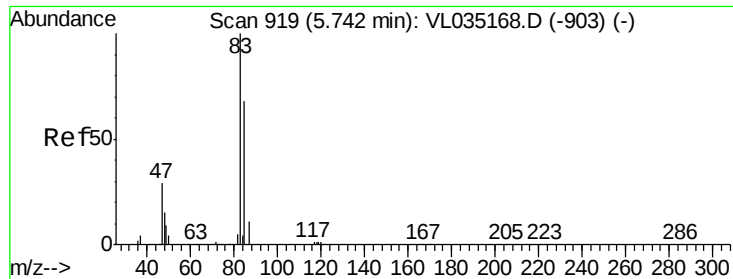
57 22.7 18.1 27.1



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

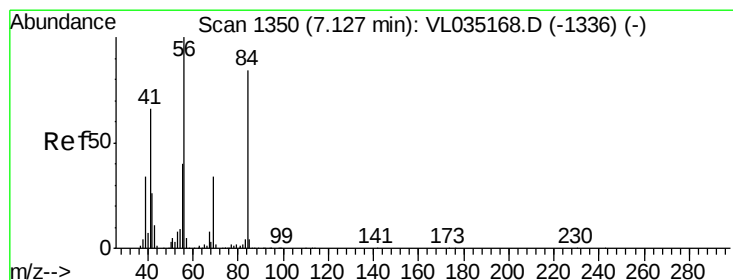
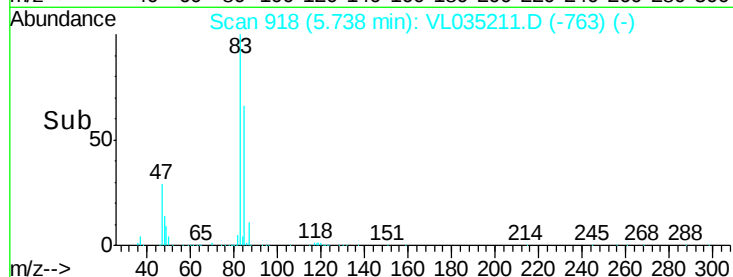
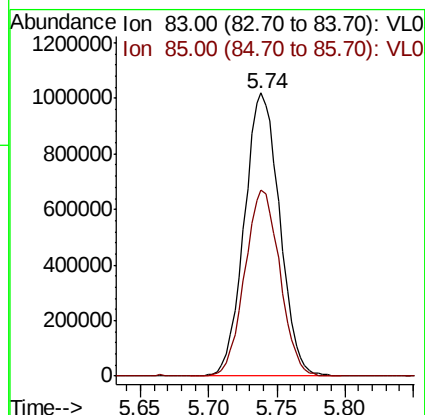
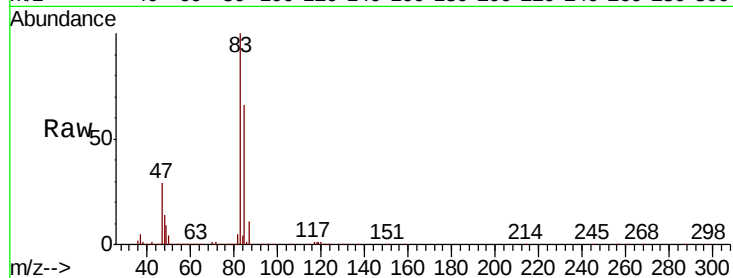




#29  
Chloroform  
Concen: 9.353 ppbv  
RT: 5.74 min Scan# 918  
Delta R.T. -0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

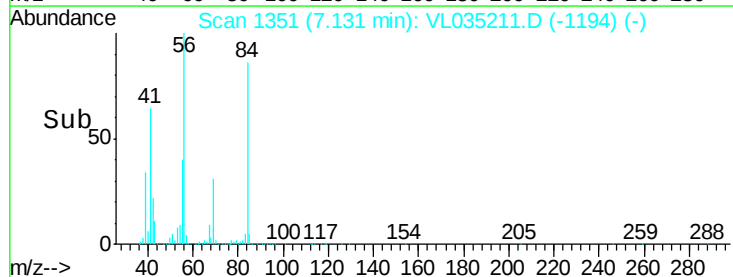
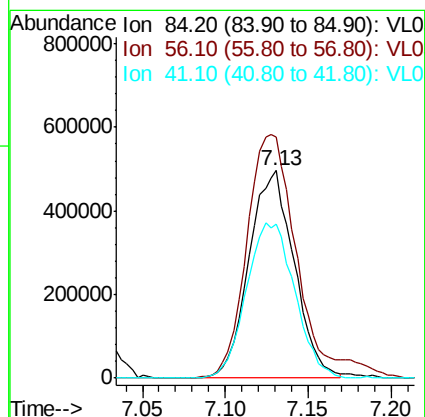
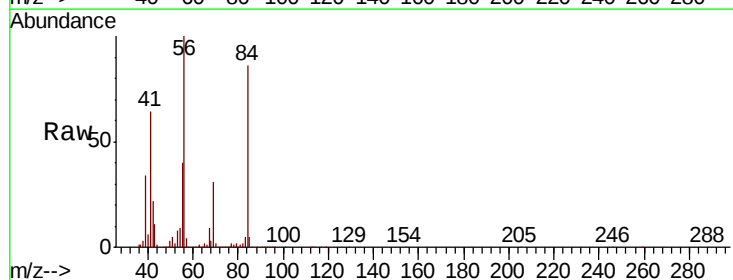
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

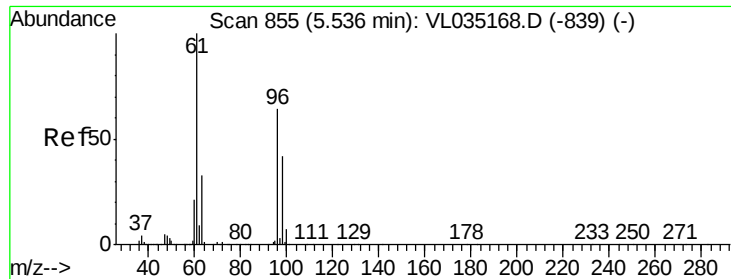
Tot Ion: 83 Resp: 1827250  
Ion Ratio Lower Upper  
83 100  
85 65.8 54.3 81.5



#30  
Cyclohexane  
Concen: 10.883 ppbv  
RT: 7.13 min Scan# 1351  
Delta R.T. 0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion: 84 Resp: 938328  
Ion Ratio Lower Upper  
84 100  
56 132.0 105.6 158.4  
41 80.4 64.9 97.3



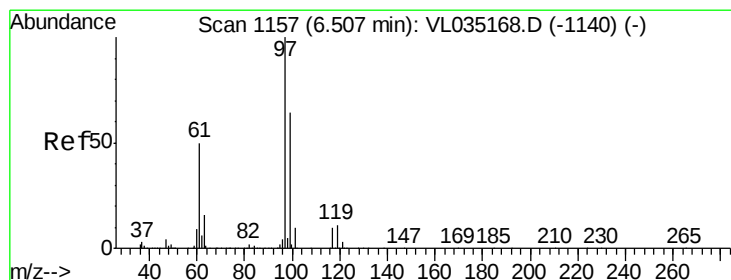
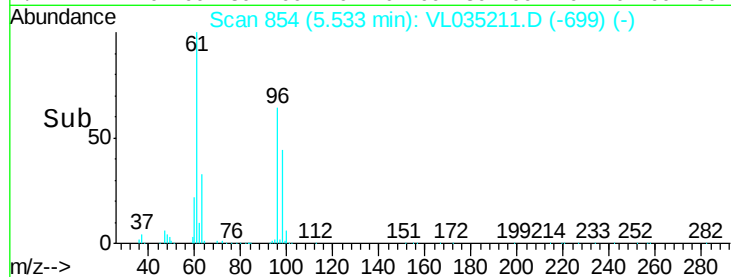
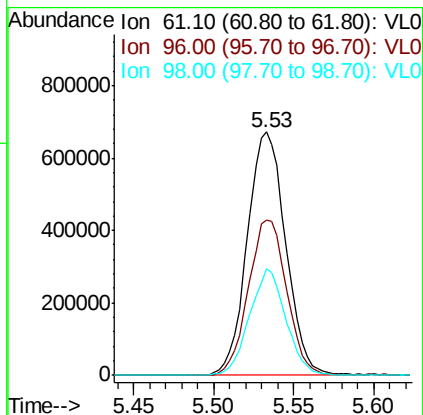
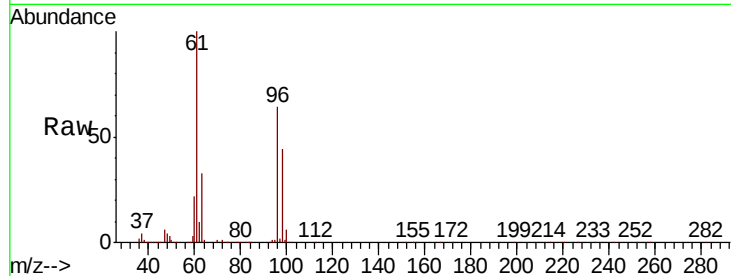


#31

cis-1,2-Dichloroethene  
 Concen: 9.956 ppbv  
 RT: 5.53 min Scan# 854  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

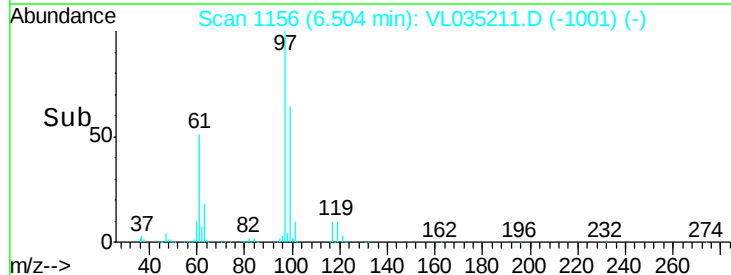
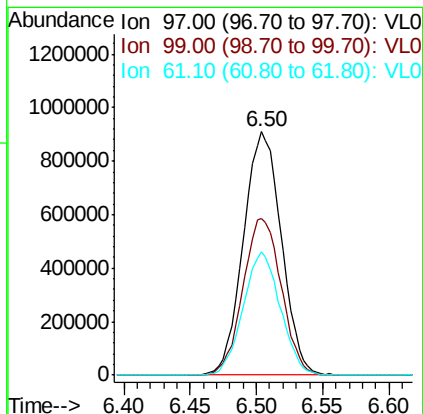
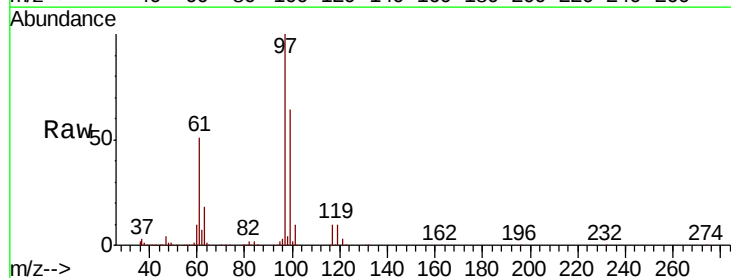
Tot Ion: 61 Resp: 1097411  
 Ion Ratio Lower Upper  
 61 100  
 96 63.7 51.3 76.9  
 98 43.7 33.8 50.8

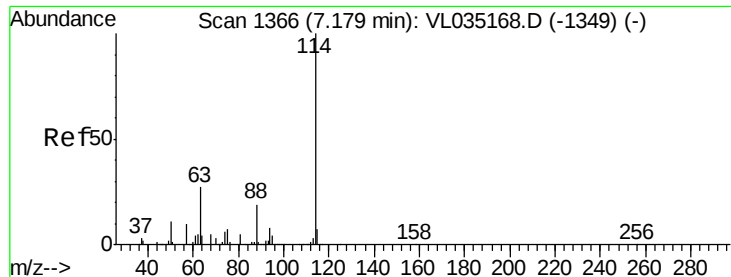


#32

1,1,1-Trichloroethane  
 Concen: 9.258 ppbv  
 RT: 6.50 min Scan# 1156  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 97 Resp: 1812571  
 Ion Ratio Lower Upper  
 97 100  
 99 65.0 51.2 76.8  
 61 49.6 40.9 61.3

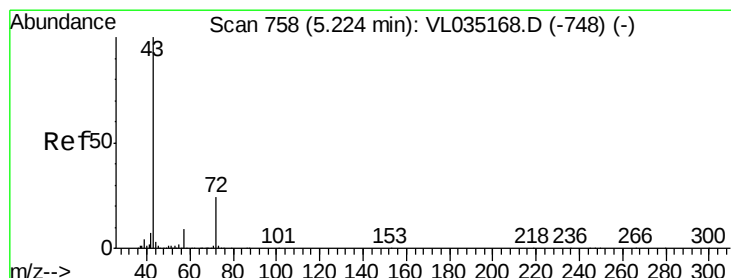
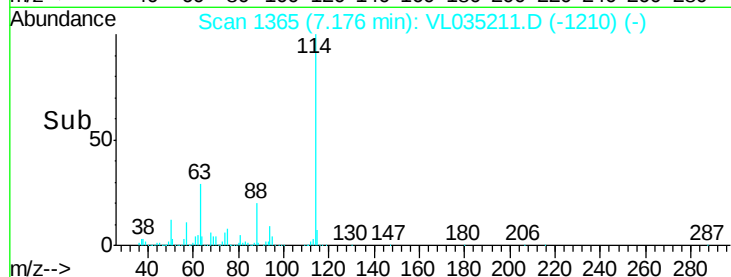
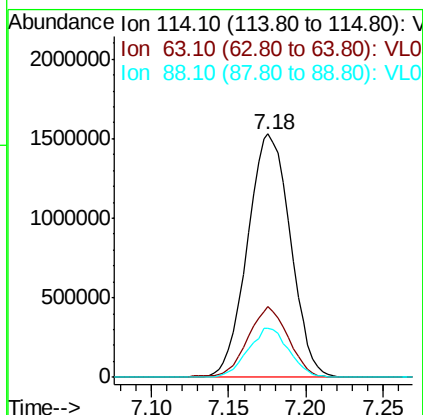
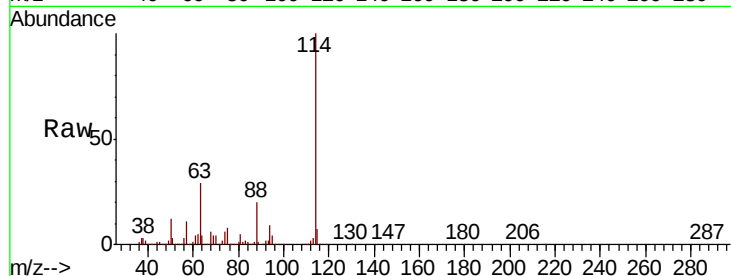




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

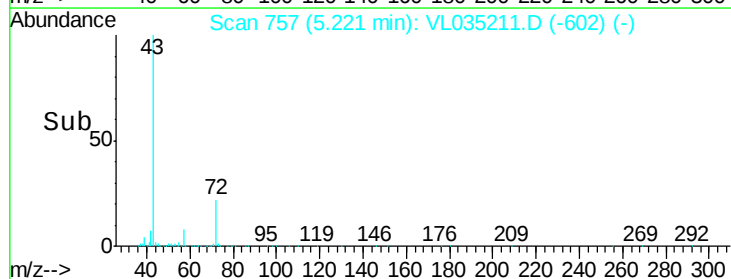
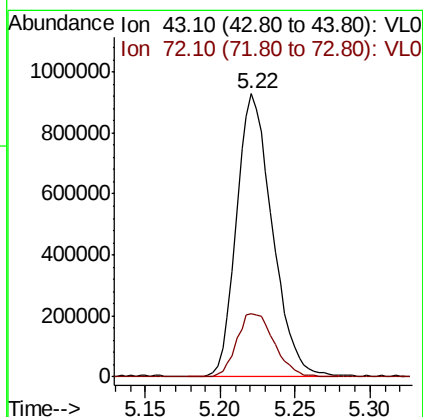
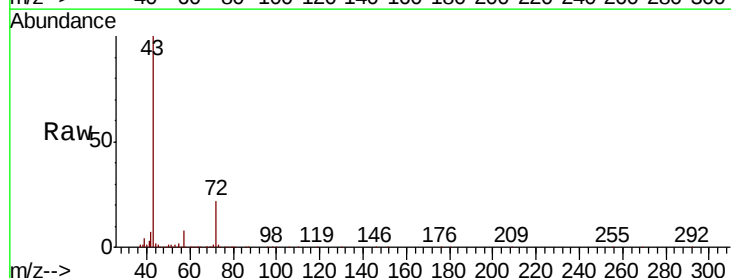
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

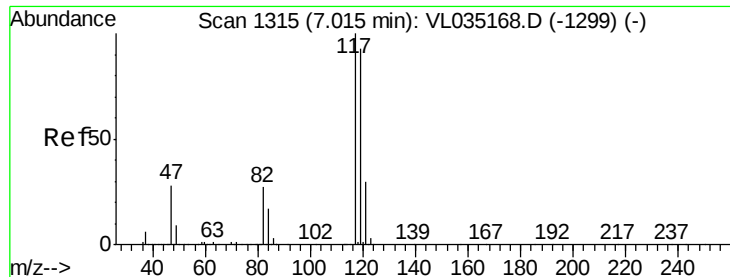
Tot Ion:114 Resp: 2958373  
 Ion Ratio Lower Upper  
 114 100  
 63 27.5 22.0 33.0  
 88 19.3 15.4 23.0



#34  
 2-Butanone  
 Concen: 9.745 ppbv  
 RT: 5.22 min Scan# 757  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 43 Resp: 1538759  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 18.6 28.0





#35

Carbon Tetrachloride

Concen: 9.729 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

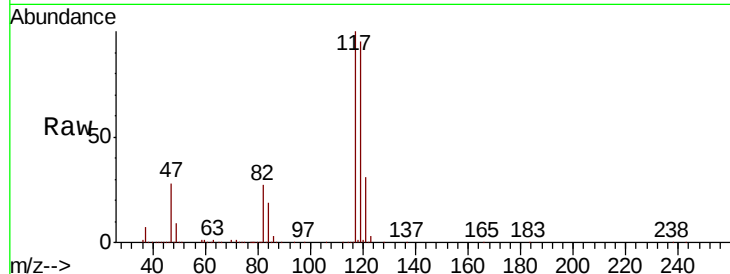
Tot Ion:117 Resp: 1868418

Ion Ratio Lower Upper

117 100

119 94.9 74.8 112.2

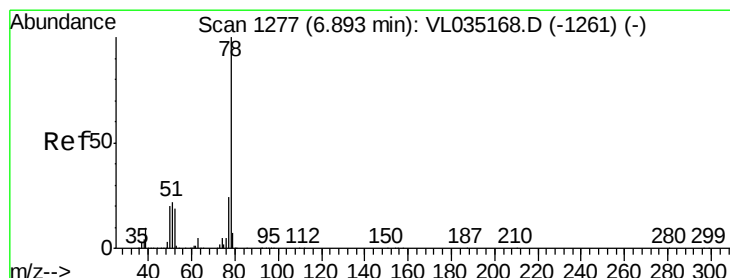
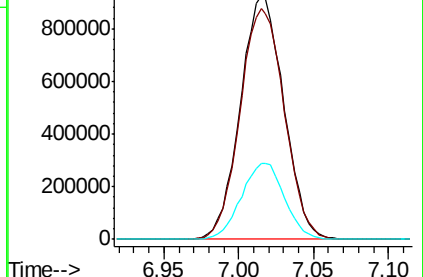
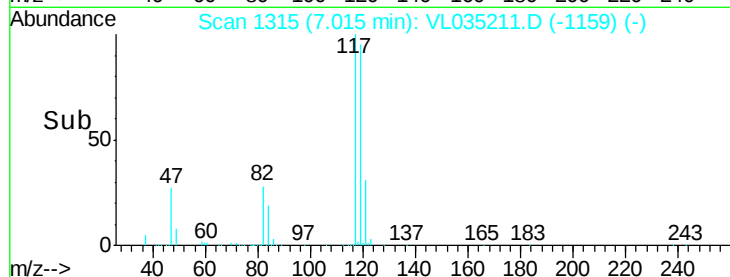
121 31.3 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.325 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

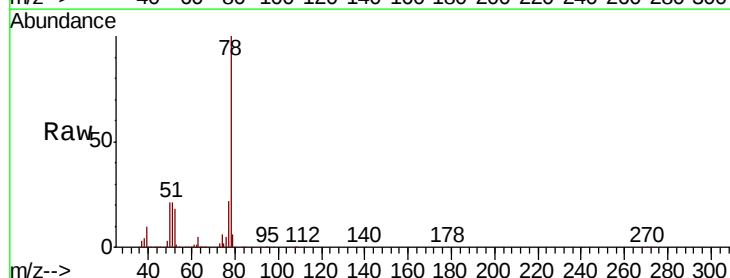
Tgt Ion: 78 Resp: 2210818

Ion Ratio Lower Upper

78 100

77 21.8 19.3 28.9

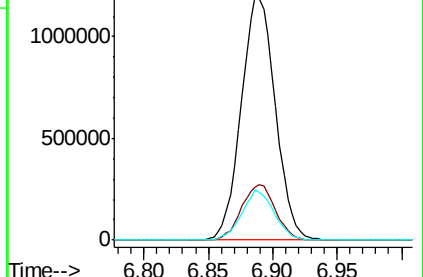
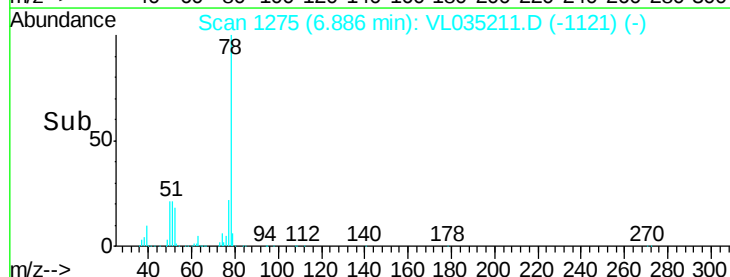
50 20.6 16.0 24.0

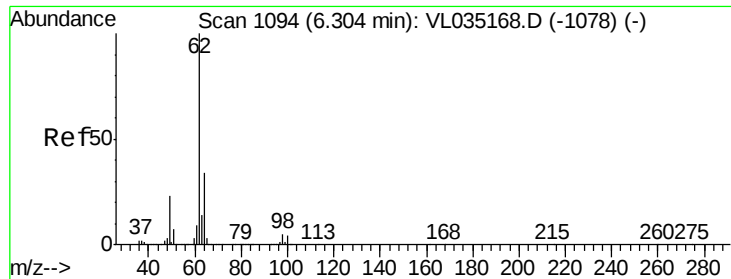


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

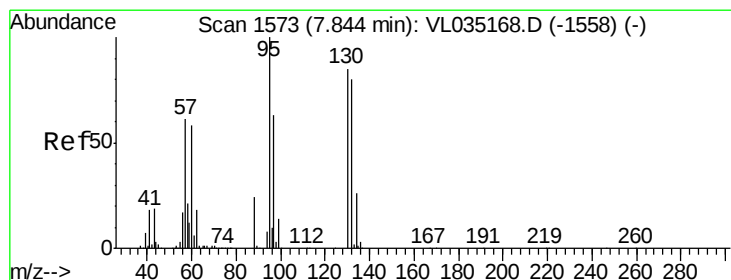
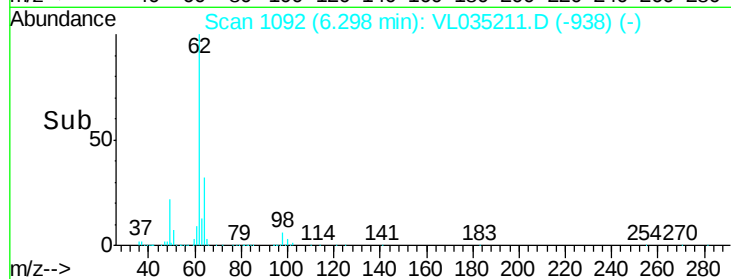
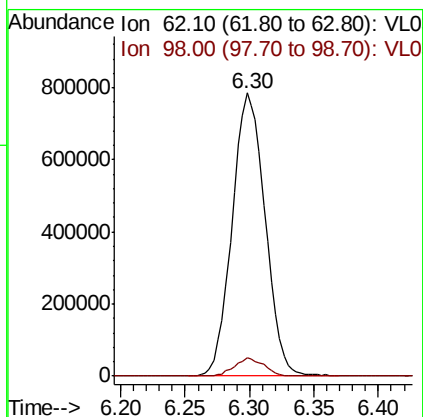
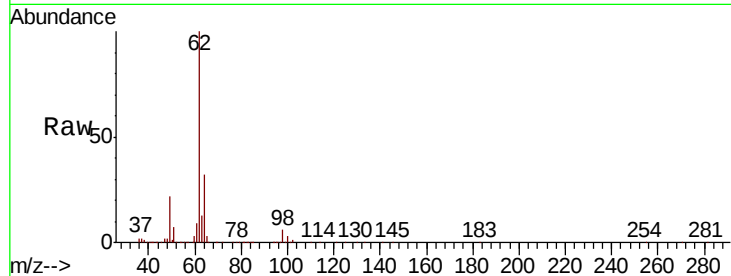




#37  
 1,2-Dichloroethane  
 Concen: 9.730 ppbv  
 RT: 6.30 min Scan# 1092  
 Delta R.T. -0.01 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

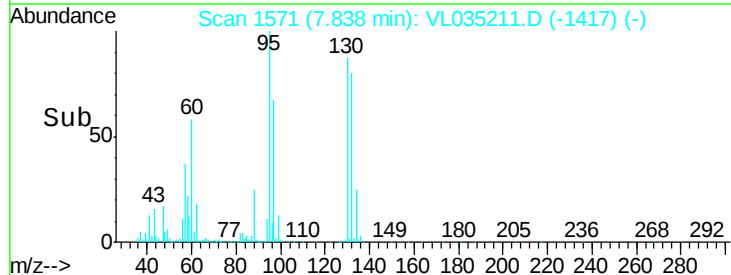
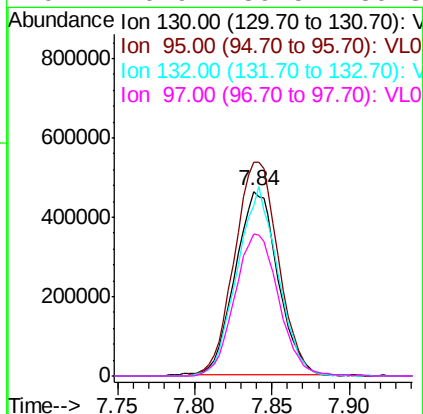
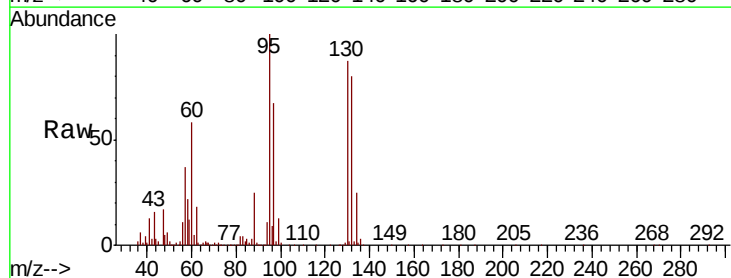
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

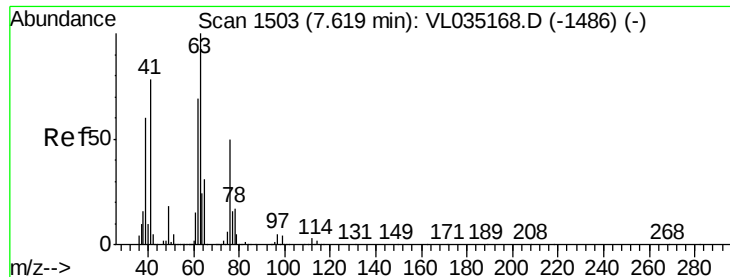
Tot Ion: 62 Resp: 1398168  
 Ion Ratio Lower Upper  
 62 100  
 98 5.8 4.6 6.8



#38  
 Trichloroethene  
 Concen: 10.183 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. -0.01 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion:130 Resp: 888392  
 Ion Ratio Lower Upper  
 130 100  
 95 115.6 93.8 140.8  
 132 92.4 75.0 112.4  
 97 76.9 59.5 89.3





#39

1,2-Dichloropropane

Concen: 10.159 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

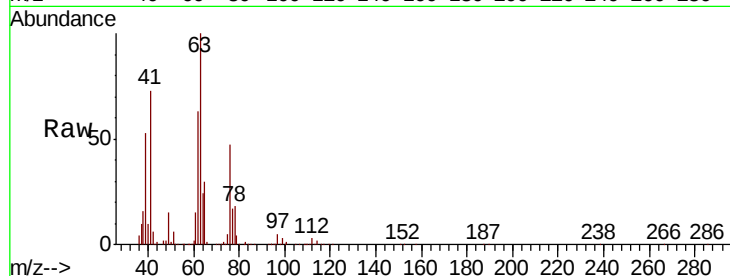
Tot Ion: 63 Resp: 865007

Ion Ratio Lower Upper

63 100

41 72.7 62.6 94.0

62 63.4 55.0 82.6

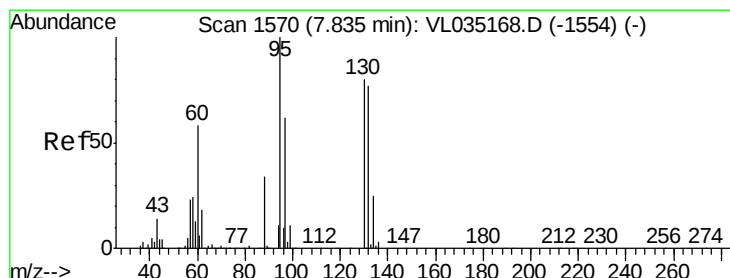
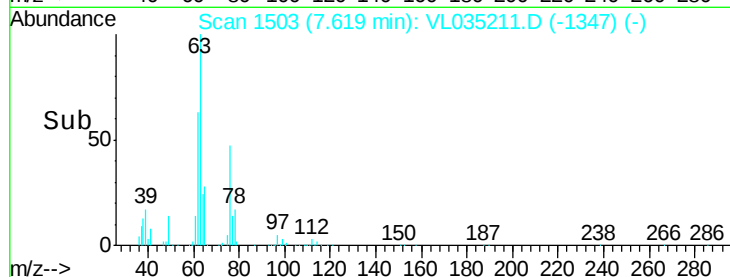
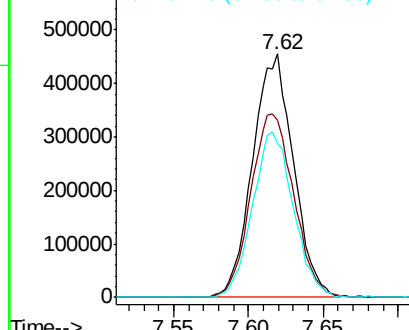


Abundance

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: 4.771 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion: 88 Resp: 161713

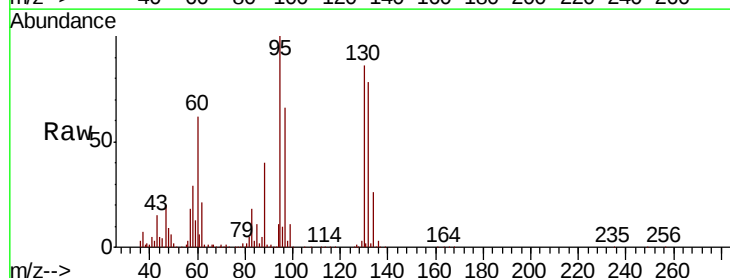
Ion Ratio Lower Upper

88 100

58 278.9 100.2 150.4#

43 0.0 199.8 299.8#

57 0.0 869.5 1304.3#



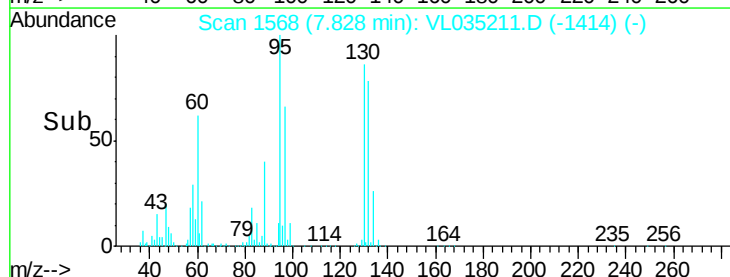
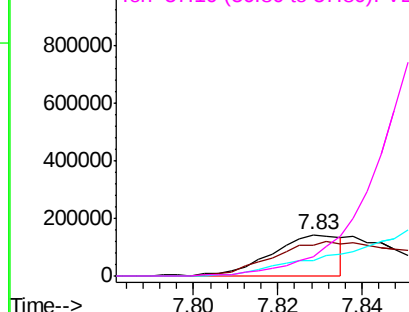
Abundance

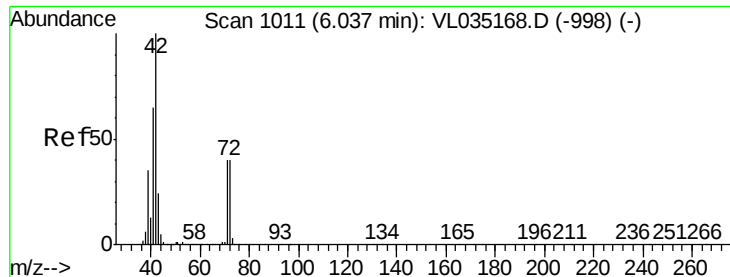
Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.774 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

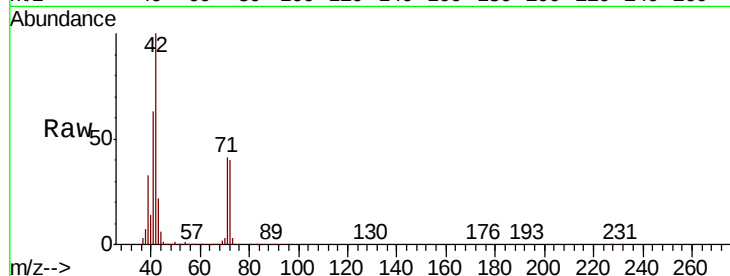
Tot Ion: 42 Resp: 851265

Ion Ratio Lower Upper

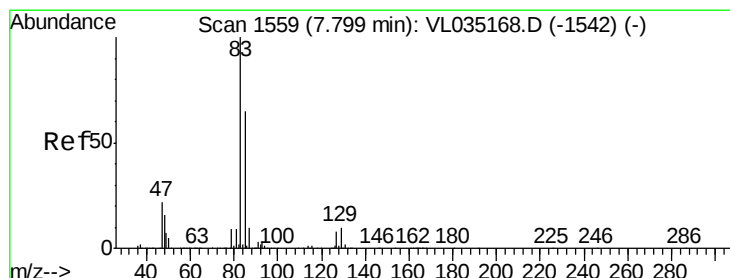
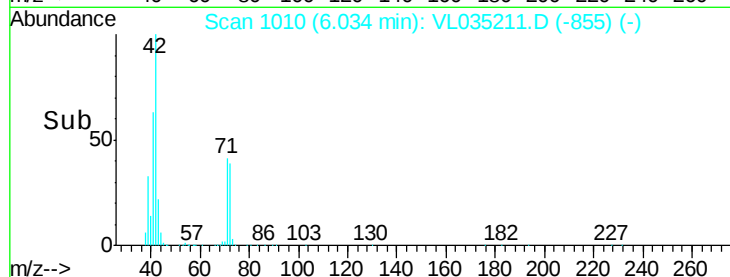
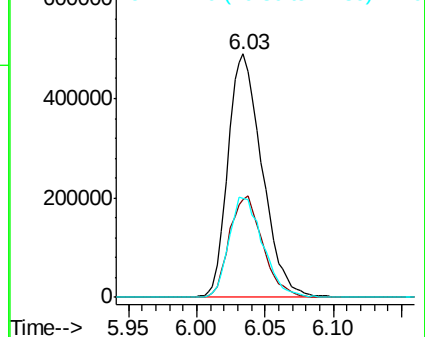
42 100

72 40.8 33.4 50.2

71 41.1 31.9 47.9



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: 10.162 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

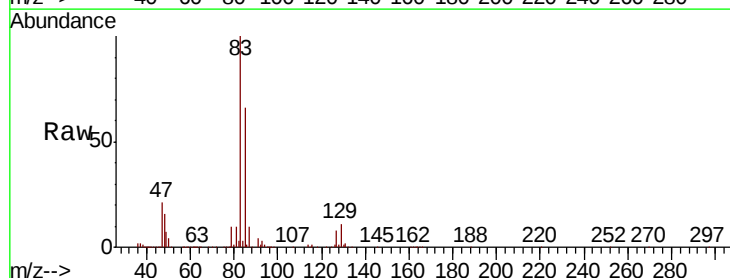
Tgt Ion: 83 Resp: 1949865

Ion Ratio Lower Upper

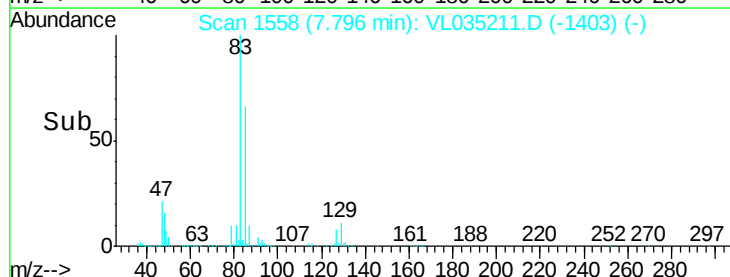
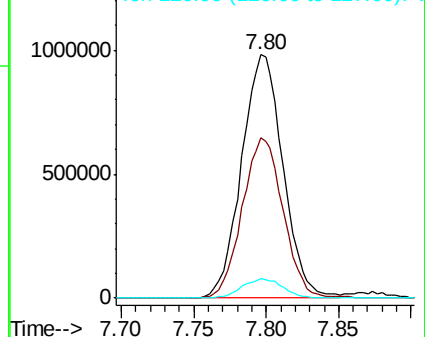
83 100

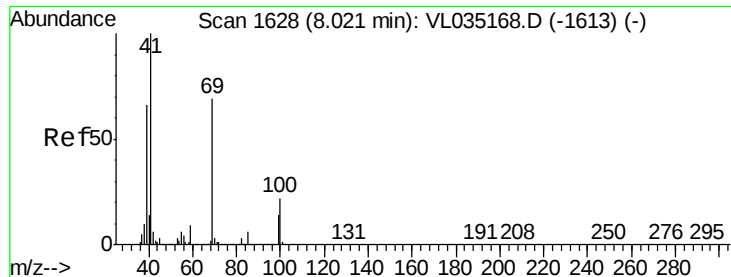
85 66.1 52.2 78.4

127 8.0 6.3 9.5



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

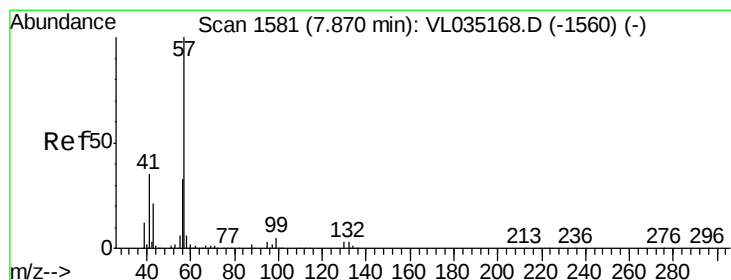
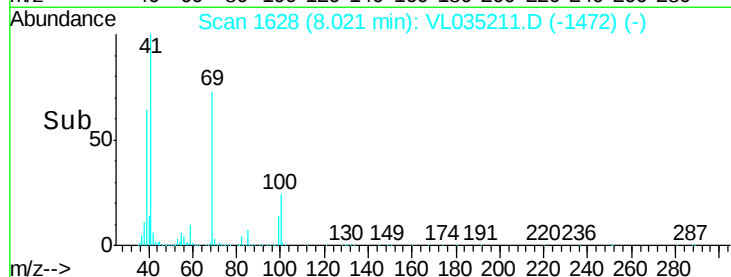
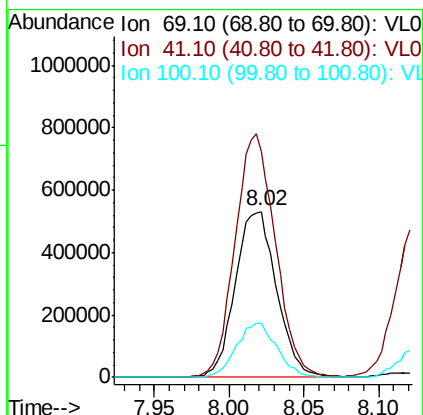
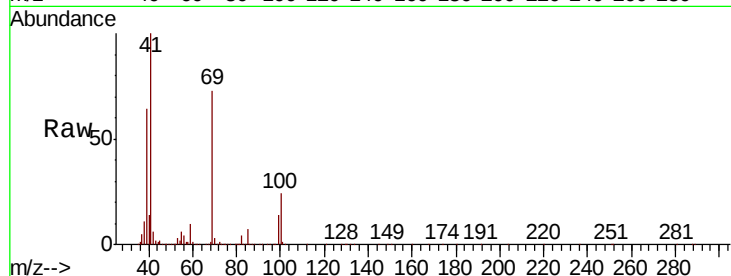




#43  
Methvl Methacrylate  
Concen: 11.270 ppbv  
RT: 8.02 min Scan# 1628  
Delta R.T. 0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

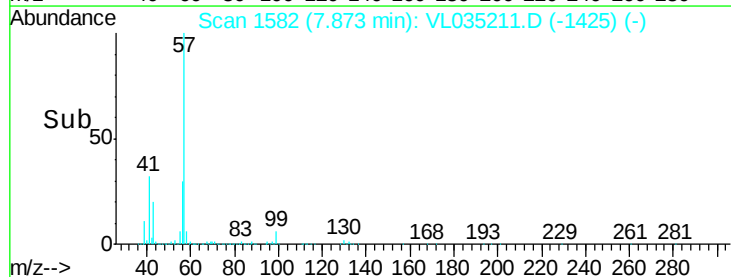
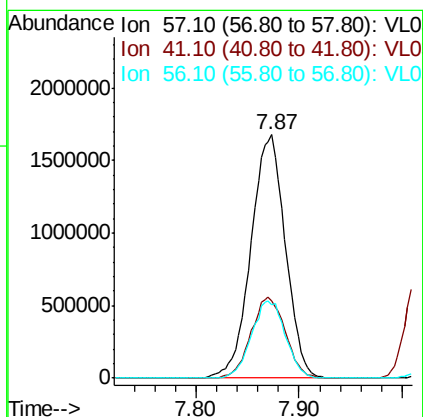
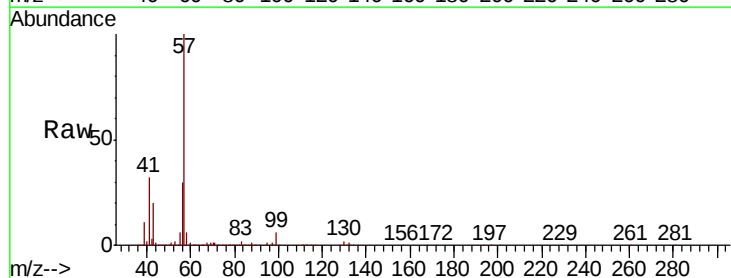
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

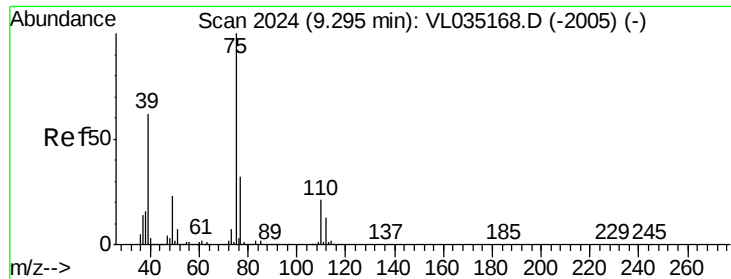
Tot Ion: 69 Resp: 1020116  
Ion Ratio Lower Upper  
69 100  
41 143.6 116.3 174.5  
100 32.0 25.6 38.4



#44  
2,2,4-Trimethylpentane  
Concen: 10.486 ppbv  
RT: 7.87 min Scan# 1582  
Delta R.T. 0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion: 57 Resp: 3875398  
Ion Ratio Lower Upper  
57 100  
41 33.2 27.0 40.6  
56 31.5 25.5 38.3

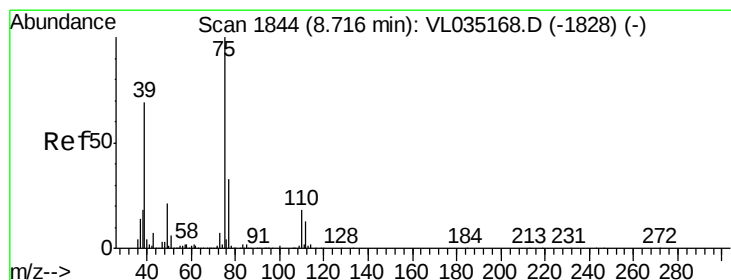
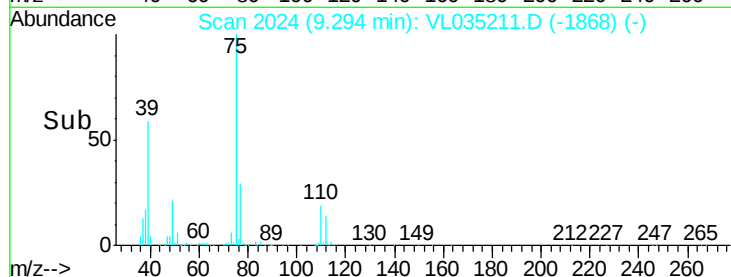
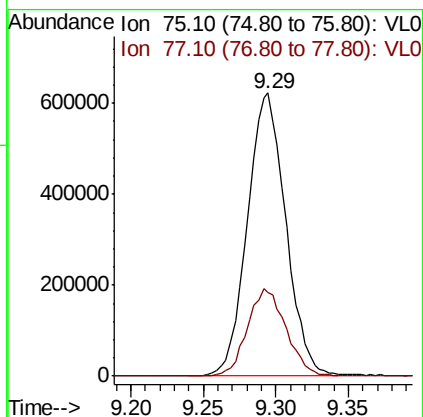
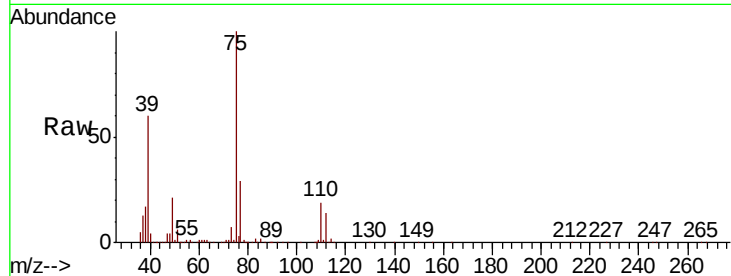




#45  
 t-1,3-Dichloropropene  
 Concen: 12.062 ppbv  
 RT: 9.29 min Scan# 2024  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

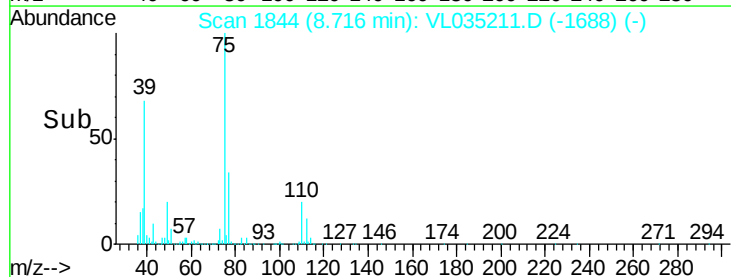
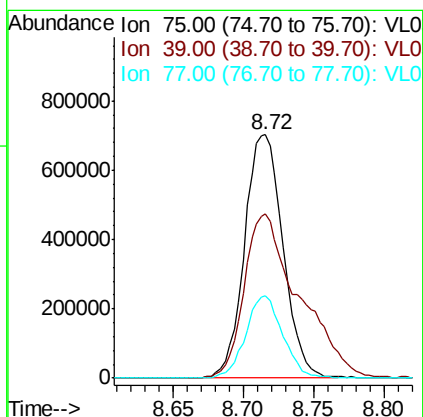
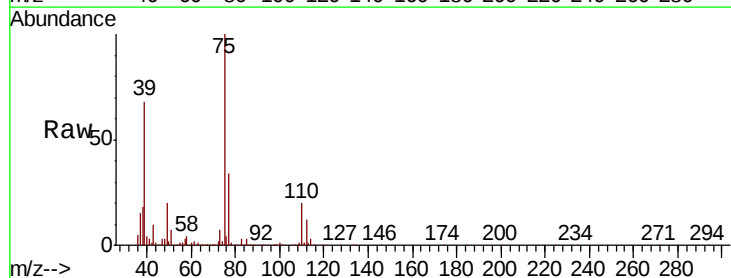
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

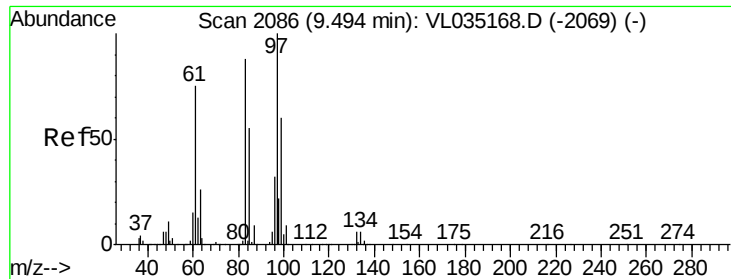
Tot Ion: 75 Resp: 1147022  
 Ion Ratio Lower Upper  
 75 100  
 77 29.4 25.8 38.8



#46  
 cis-1,3-Dichloropropene  
 Concen: 11.896 ppbv  
 RT: 8.72 min Scan# 1844  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 75 Resp: 1341036  
 Ion Ratio Lower Upper  
 75 100  
 39 67.5 55.2 82.8  
 77 33.7 26.0 39.0

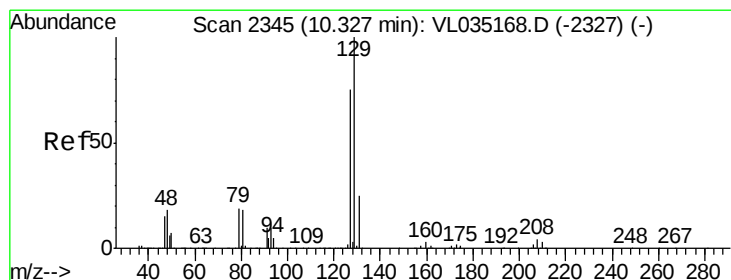
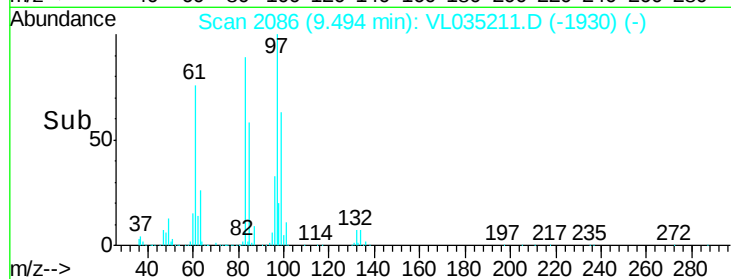
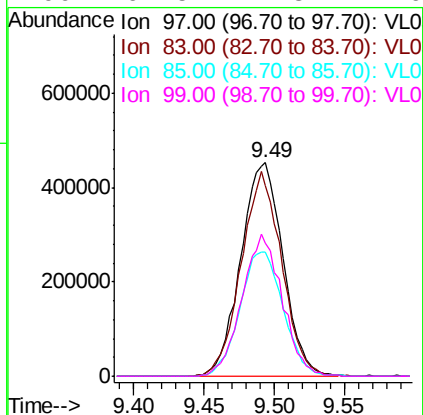
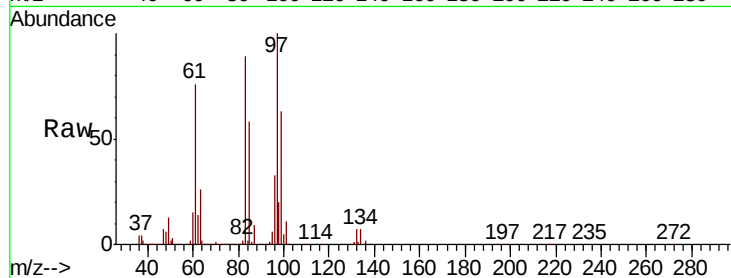




#47  
 1,1,2-Trichloroethane  
 Concen: 10.147 ppbv  
 RT: 9.49 min Scan# 2086  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

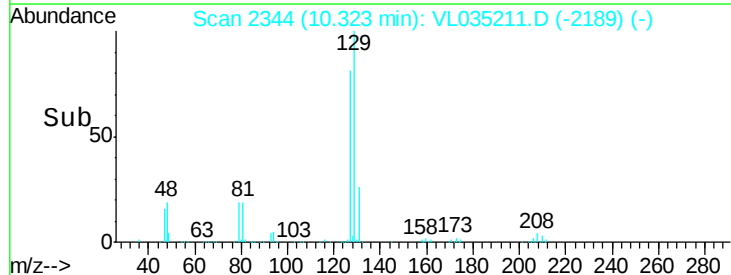
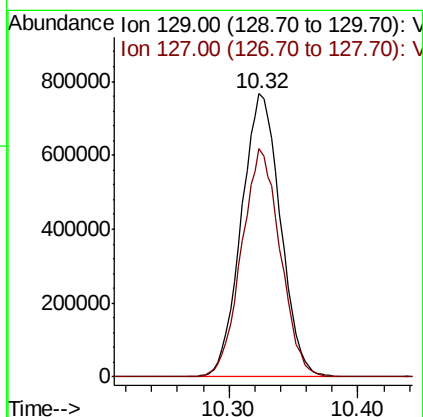
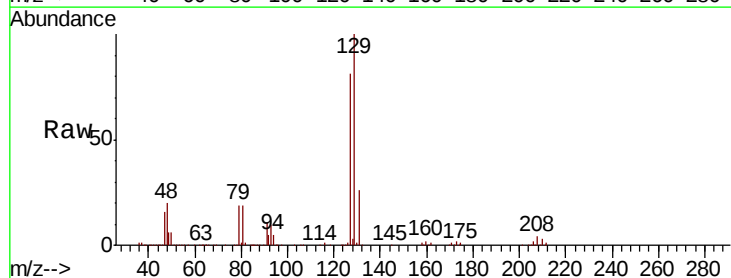
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

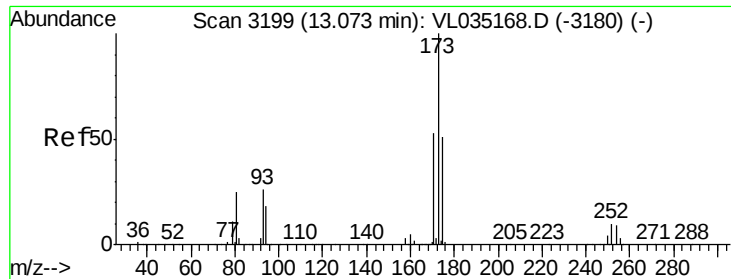
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 945745 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 89.3  | 70.3  | 105.5  |
| 85       | 58.2  | 44.3  | 66.5   |
| 99       | 62.5  | 47.8  | 71.6   |



#48  
 Dibromochloromethane  
 Concen: 10.665 ppbv  
 RT: 10.32 min Scan# 2344  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 129   | Resp: | 1617361 |
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 79.9  | 38.8  | 116.3   |





#49

Bromoform

Concen: 10.798 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

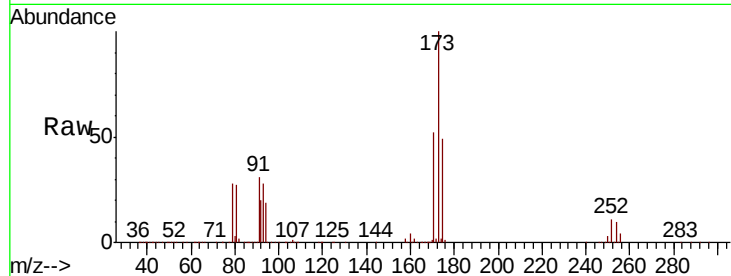
Tot Ion:173 Resp: 1432398

Ion Ratio Lower Upper

173 100

175 49.4 39.7 59.5

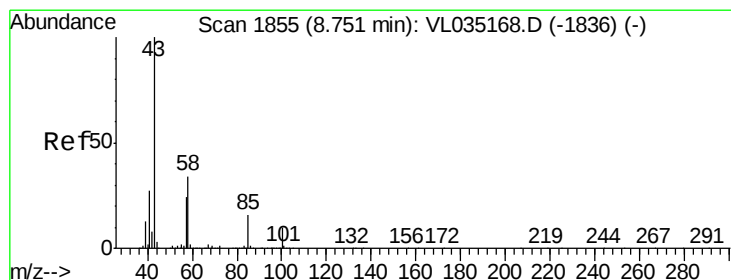
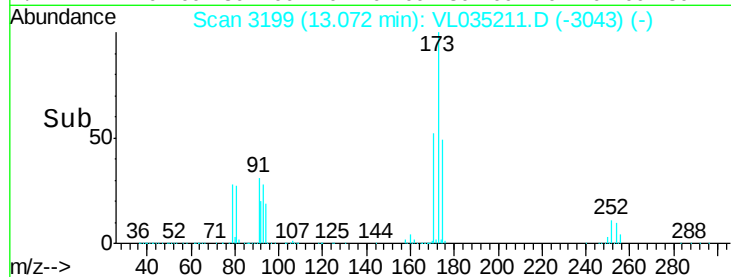
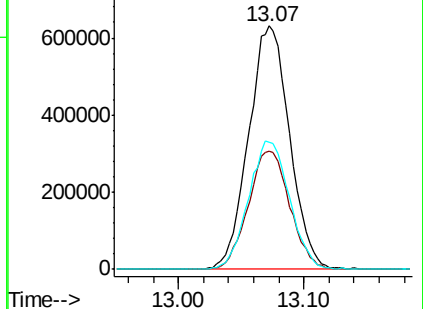
171 52.8 41.6 62.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.555 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL035211.D

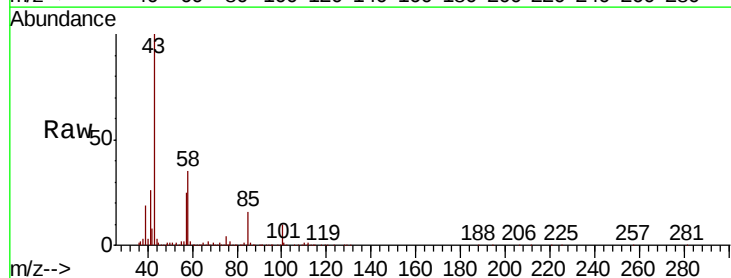
Acq: 21 Jul 2020 12:23

Tgt Ion: 43 Resp: 2391945

Ion Ratio Lower Upper

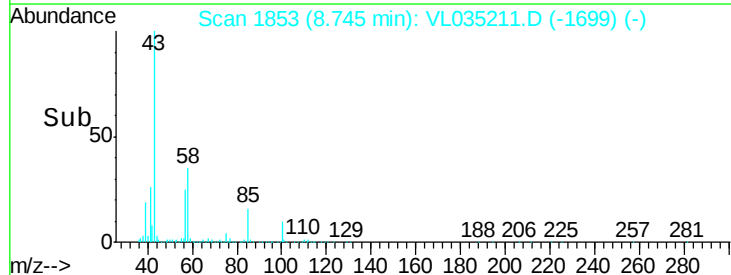
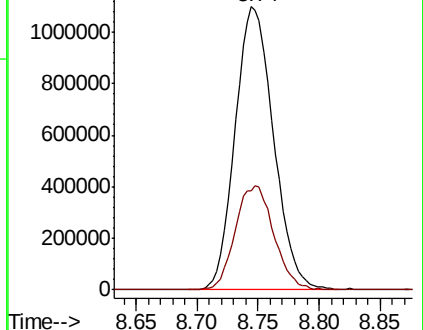
43 100

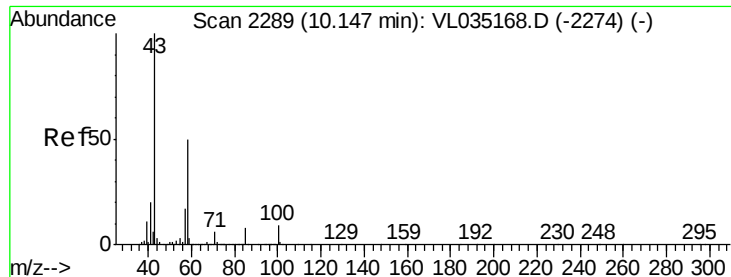
58 36.9 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

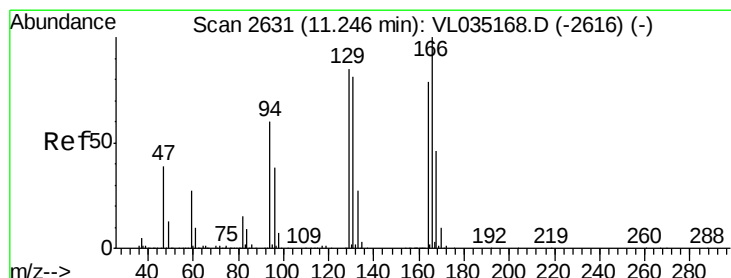
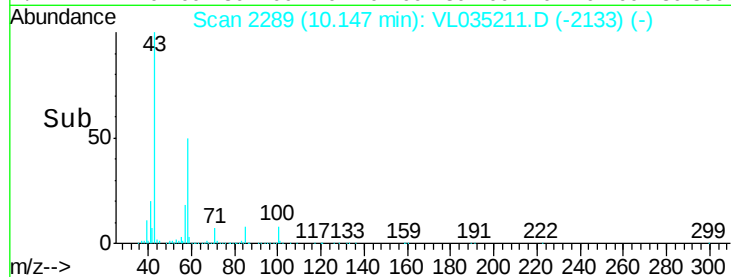
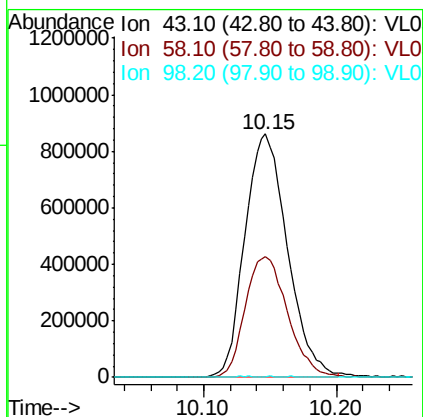
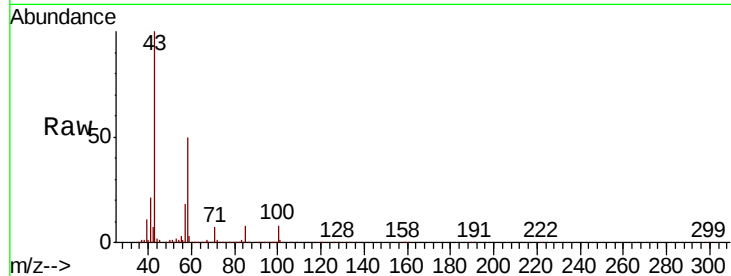




#51  
2-Hexanone  
Concen: 11.137 ppbv  
RT: 10.15 min Scan# 2289  
Delta R.T. 0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

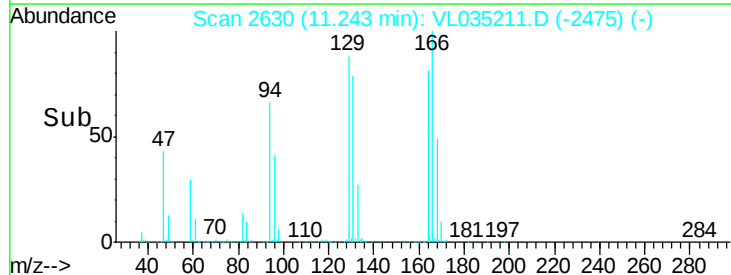
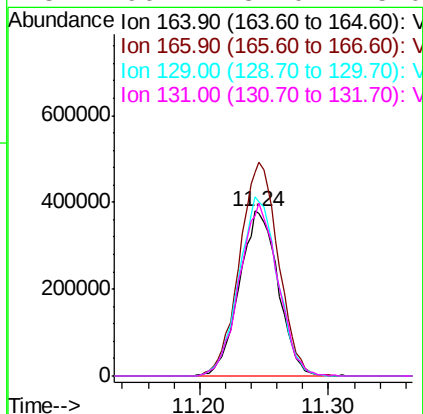
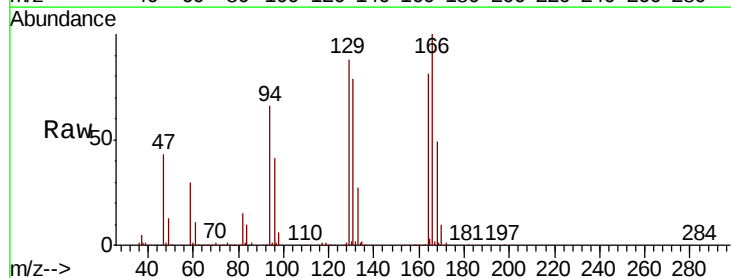
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

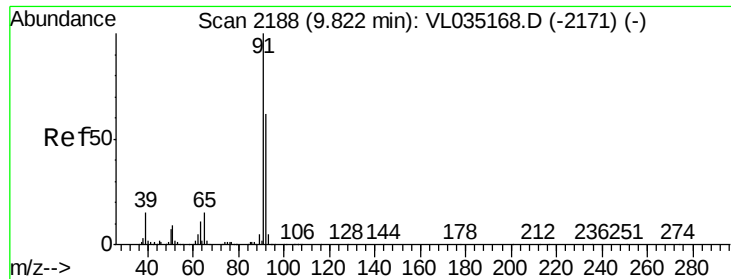
Tot Ion: 43 Resp: 1924442  
Ion Ratio Lower Upper  
43 100  
58 49.7 39.4 59.0  
98 0.7 0.3 0.5#



#52  
Tetrachloroethene  
Concen: 9.952 ppbv  
RT: 11.24 min Scan# 2630  
Delta R.T. -0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion:164 Resp: 795925  
Ion Ratio Lower Upper  
164 100  
166 122.9 100.7 151.1  
129 108.2 85.8 128.6  
131 96.7 82.0 123.0





#53

Toluene

Concen: 11.563 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

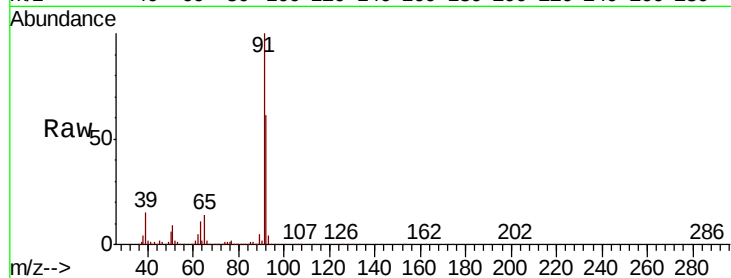
VL0721ABS01

Tot Ion: 91 Resp: 2612962

Ion Ratio Lower Upper

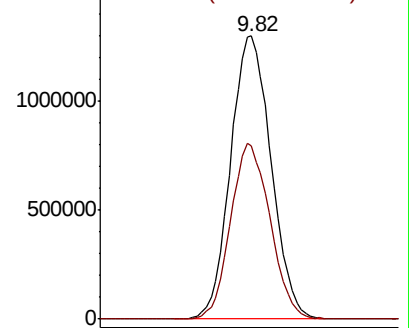
91 100

92 60.7 48.4 72.6

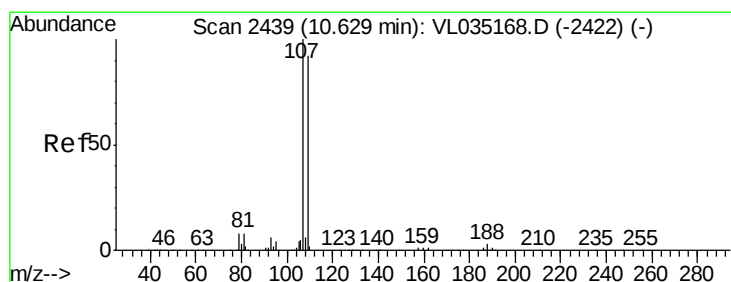
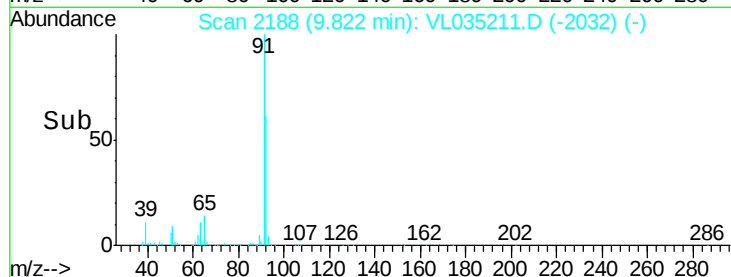


Abundance Ion 91.10 (90.80 to 91.80): VL0

1500000 Ion 92.10 (91.80 to 92.80): VL0



Time-->



#54

1,2-Dibromoethane

Concen: 10.528 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.00 min

Lab File: VL035211.D

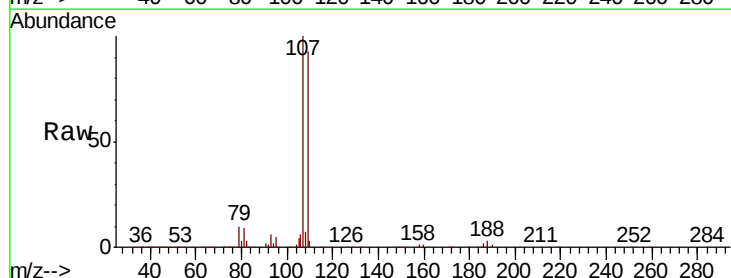
Acq: 21 Jul 2020 12:23

Tgt Ion: 107 Resp: 1456206

Ion Ratio Lower Upper

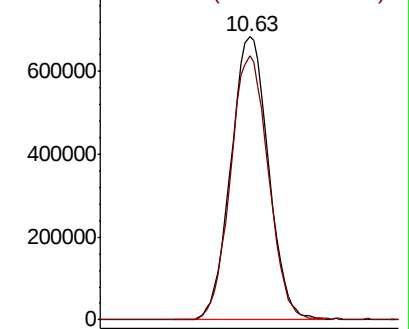
107 100

109 93.4 74.0 111.0

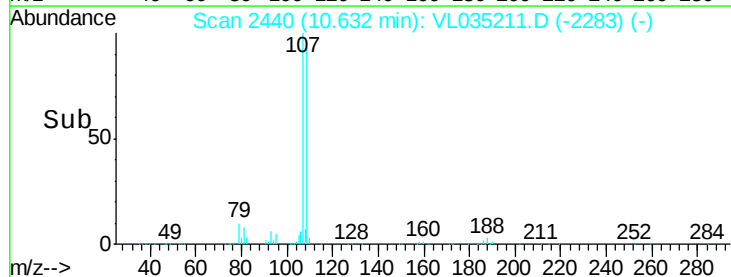


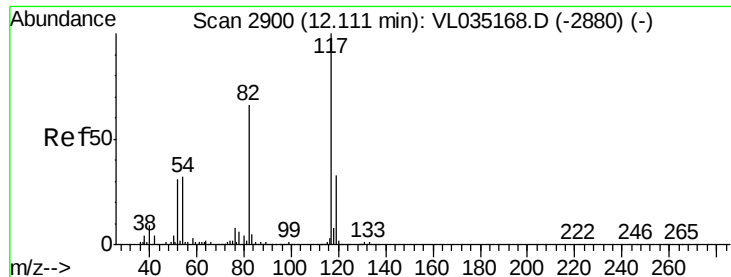
Abundance Ion 107.00 (106.70 to 107.70): V

800000 Ion 109.00 (108.70 to 109.70): V



Time-->

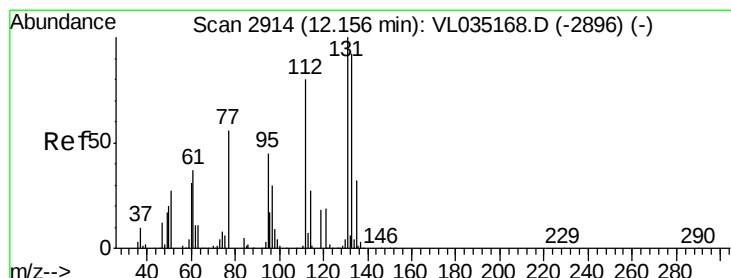
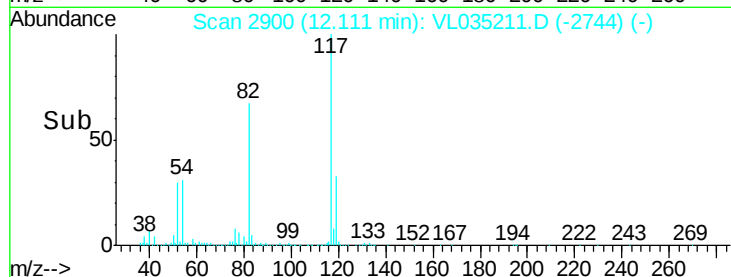
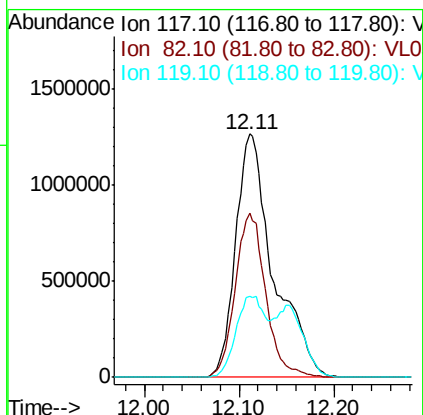
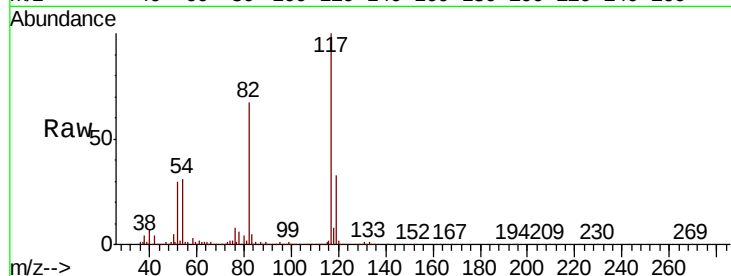




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.11 min Scan# 2900  
Delta R.T. 0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

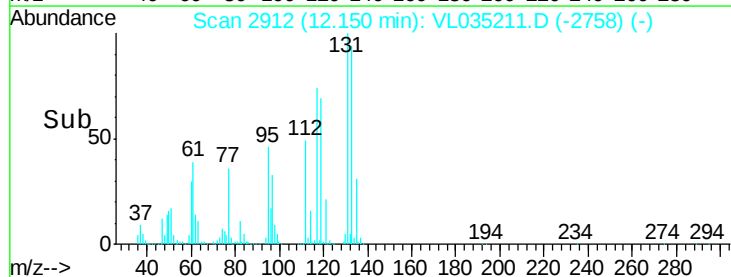
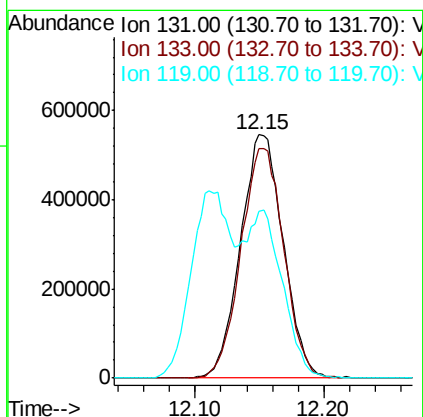
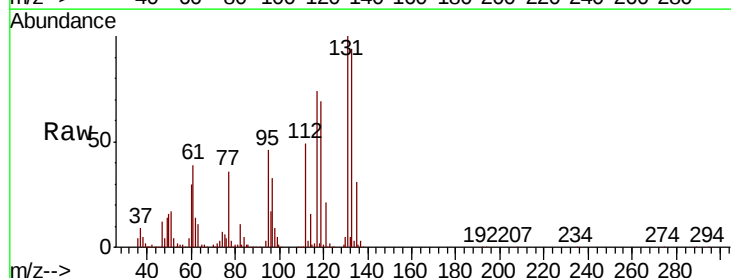
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

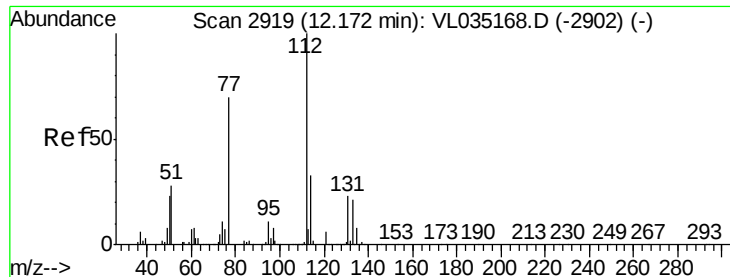
Tot Ion:117 Resp: 3514666  
Ion Ratio Lower Upper  
117 100  
82 54.4 52.3 78.5  
119 28.5 24.9 37.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.088 ppbv  
RT: 12.15 min Scan# 2912  
Delta R.T. -0.01 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion:131 Resp: 1259458  
Ion Ratio Lower Upper  
131 100  
133 94.9 75.4 113.2  
119 55.8 42.4 63.6





#57

Chlorobenzene

Concen: 7.959 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

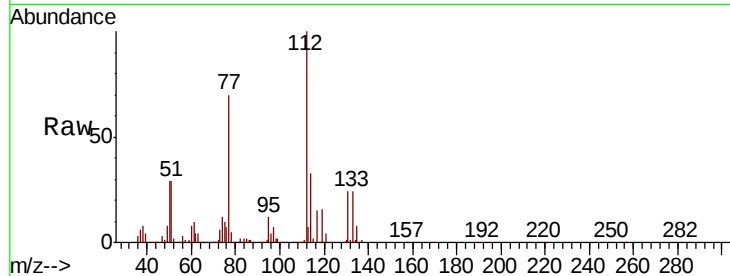
Tot Ion:112 Resp: 2061792

Ion Ratio Lower Upper

112 100

77 70.2 57.0 85.4

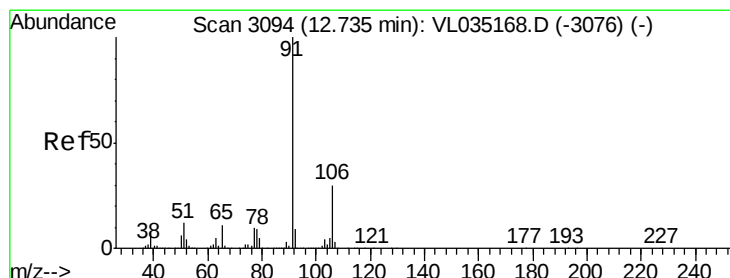
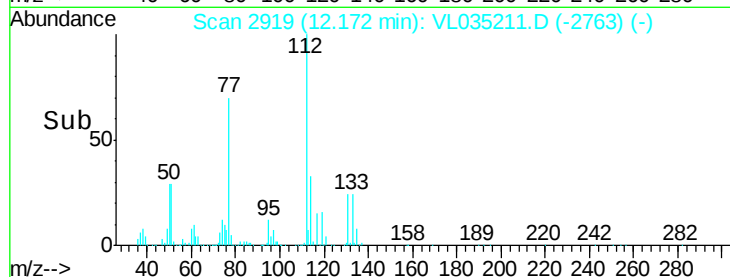
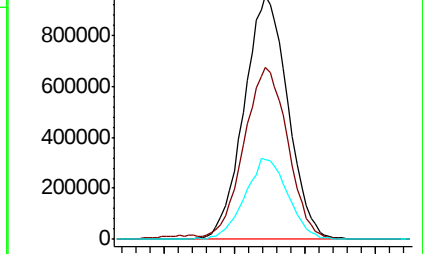
114 32.5 30.2 37.0



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.177 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL035211.D

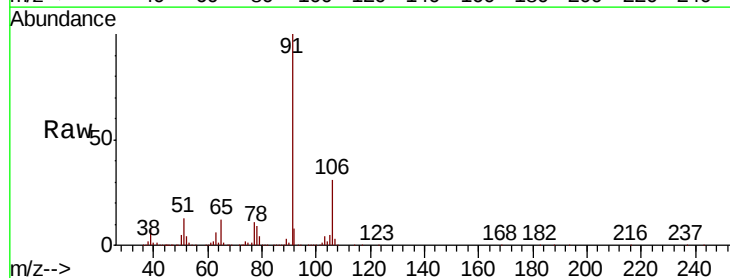
Acq: 21 Jul 2020 12:23

Tgt Ion: 91 Resp: 3565130

Ion Ratio Lower Upper

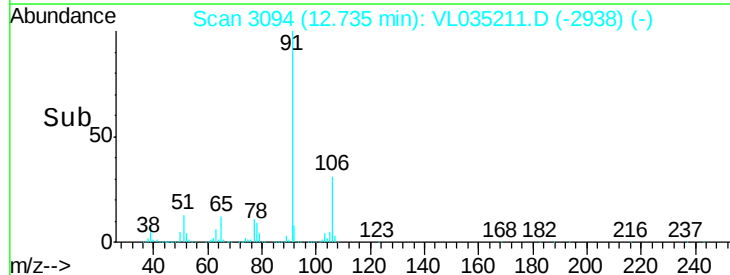
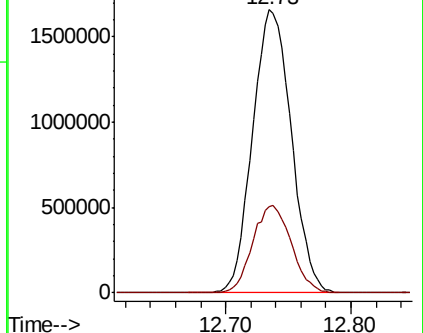
91 100

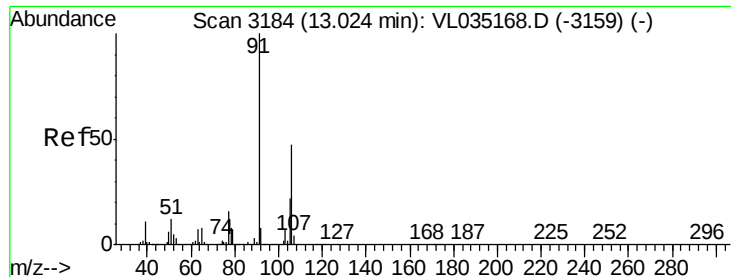
106 30.6 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

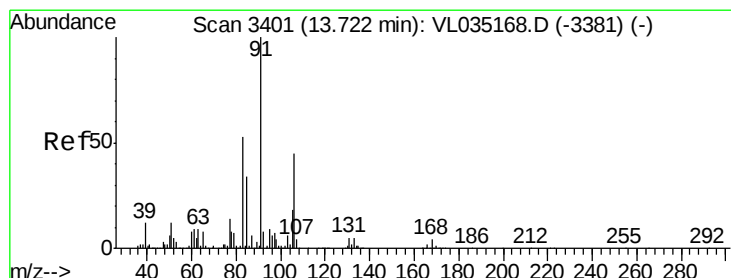
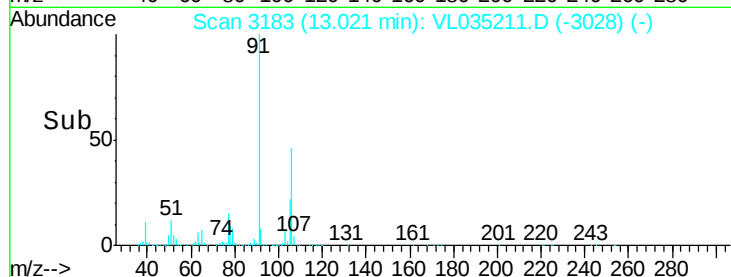
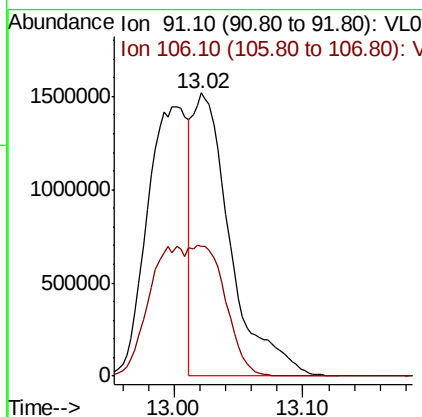
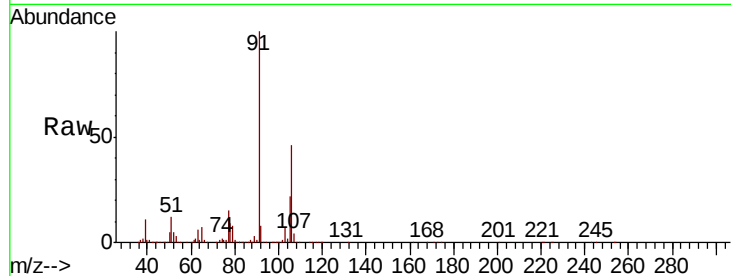




#59  
m/p-Xylene  
Concen: 8.898 ppbv  
RT: 13.02 min Scan# 3183  
Delta R.T. -0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

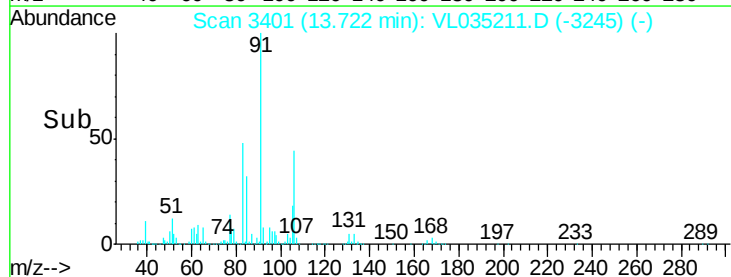
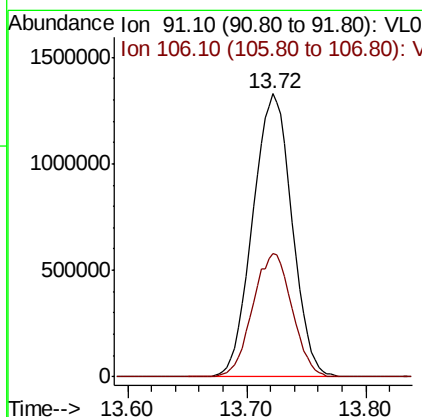
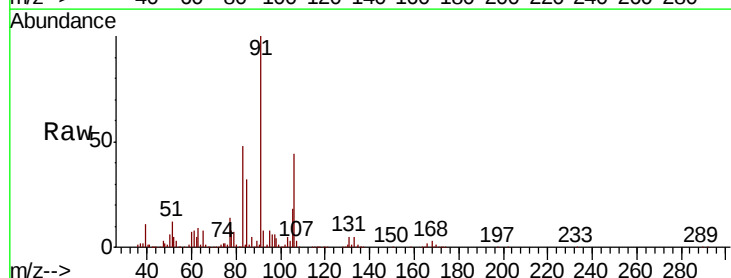
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0721ABS01

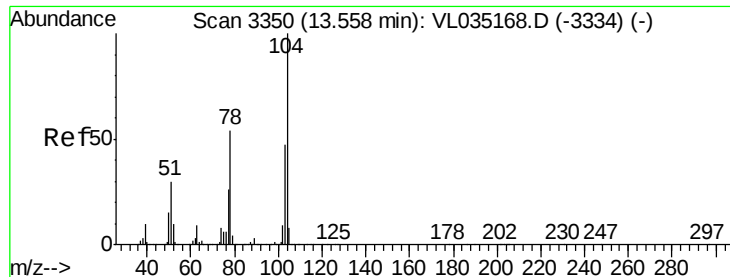
Tot Ion: 91 Resp: 3080731  
Ion Ratio Lower Upper  
91 100  
106 89.2 36.2 54.2#



#60  
o-Xylene  
Concen: 8.748 ppbv  
RT: 13.72 min Scan# 3401  
Delta R.T. 0.00 min  
Lab File: VL035211.D  
Acq: 21 Jul 2020 12:23

Tgt Ion: 91 Resp: 3021861  
Ion Ratio Lower Upper  
91 100  
106 43.8 22.1 66.3





#61

Stvrene

Concen: 9.808 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

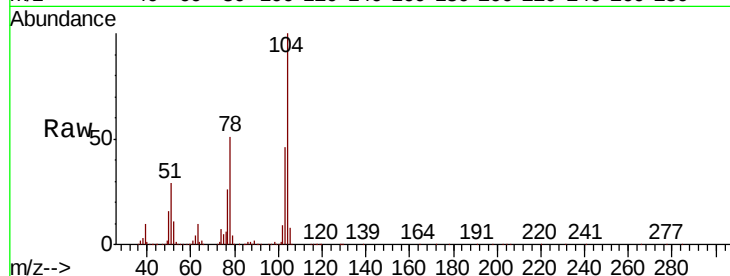
Tot Ion:104 Resp: 2093627

Ion Ratio Lower Upper

104 100

78 54.0 43.4 65.0

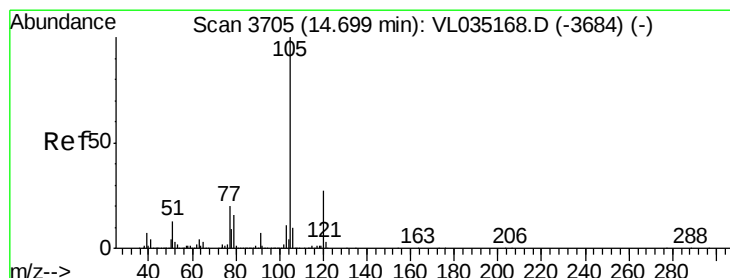
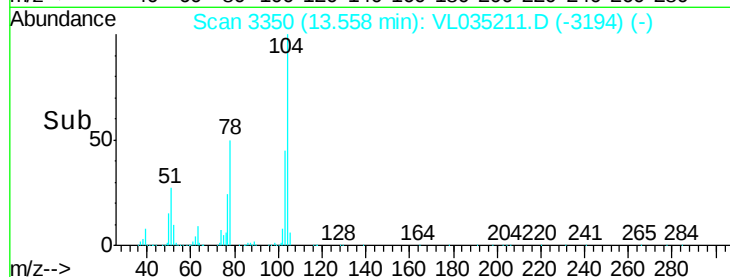
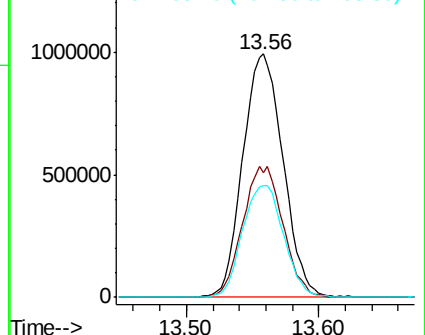
103 47.1 37.4 56.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.628 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035211.D

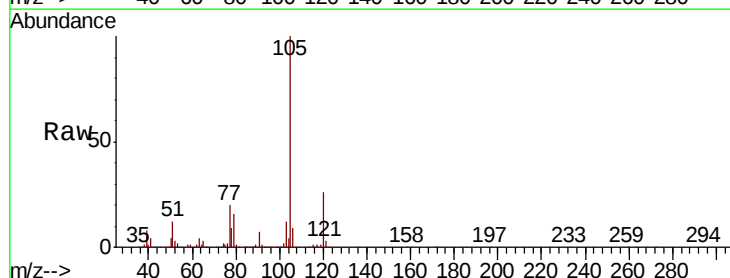
Acq: 21 Jul 2020 12:23

Tgt Ion:105 Resp: 4417391

Ion Ratio Lower Upper

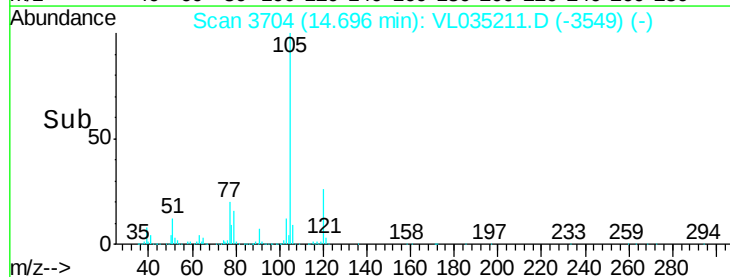
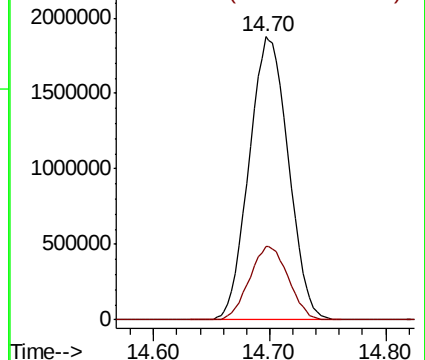
105 100

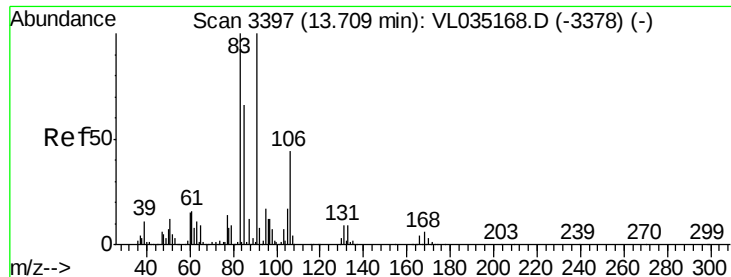
120 25.8 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

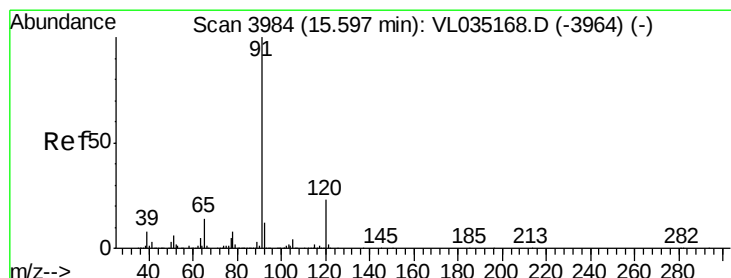
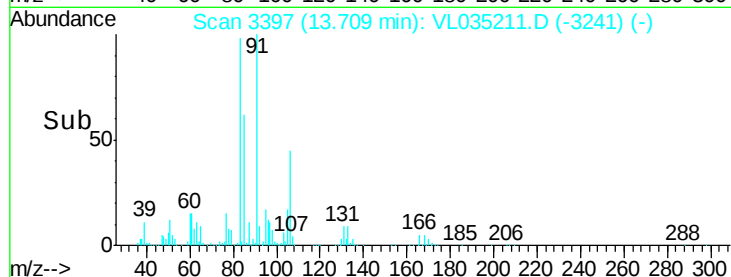
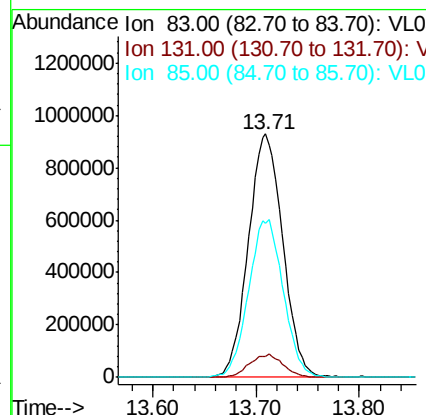
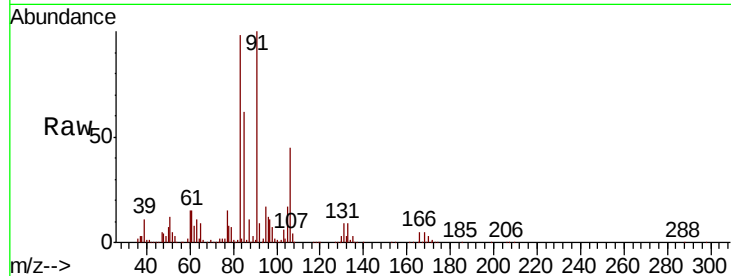




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.454 ppbv  
 RT: 13.71 min Scan# 3397  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

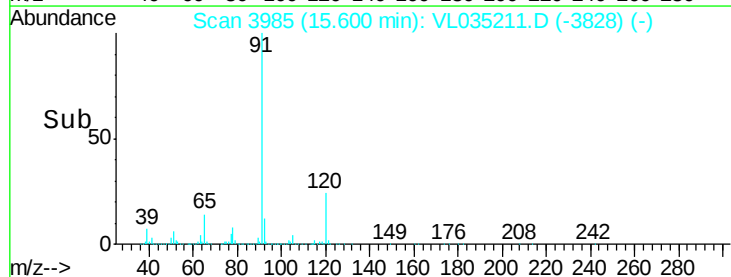
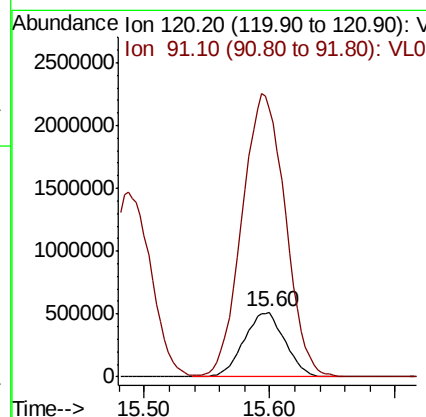
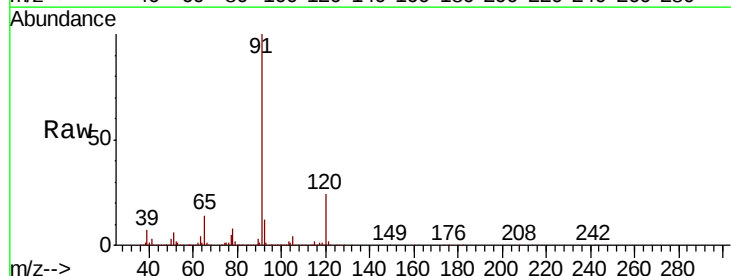
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

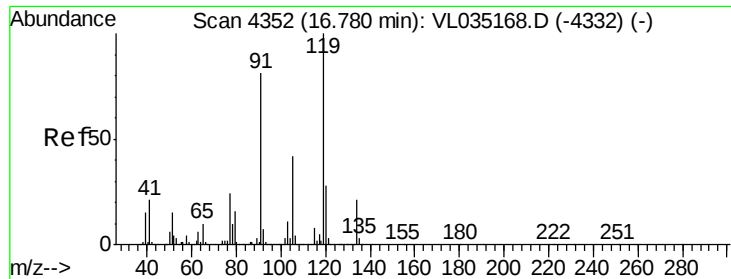
Tot Ion: 83 Resp: 2151648  
 Ion Ratio Lower Upper  
 83 100  
 131 9.3 4.7 14.0  
 85 65.4 33.0 99.0



#64  
 n-propylbenzene  
 Concen: 8.842 ppbv  
 RT: 15.60 min Scan# 3985  
 Delta R.T. 0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 120 Resp: 1169514  
 Ion Ratio Lower Upper  
 120 100  
 91 462.4 372.4 558.6





#65

tert-Butylbenzene

Concen: 8.546 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

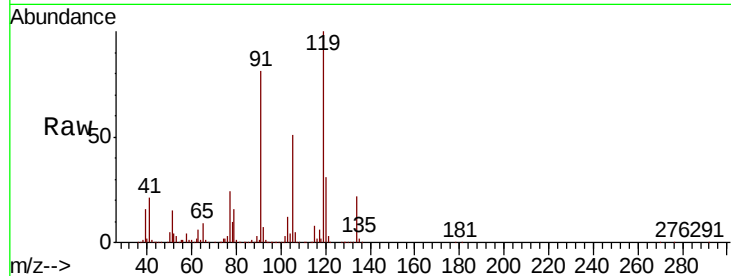
Tot Ion:119 Resp: 3929880

Ion Ratio Lower Upper

119 100

91 83.7 67.5 101.3

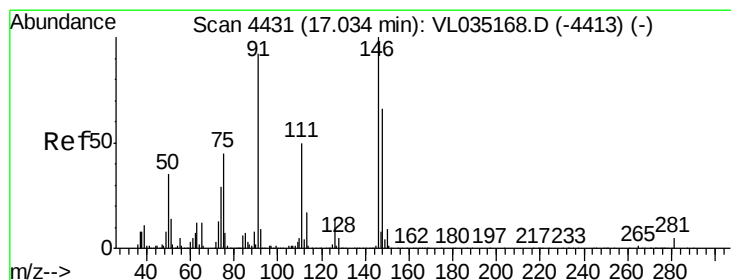
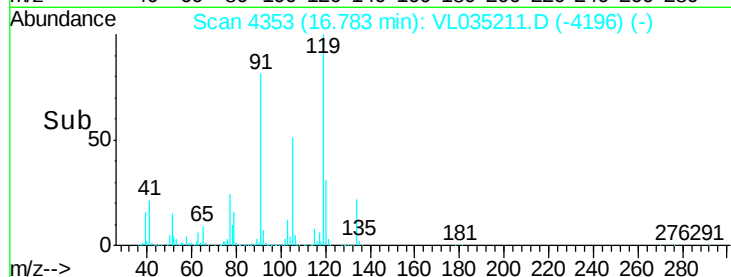
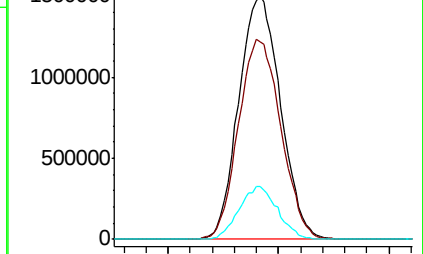
134 20.1 16.0 24.0



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.624 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

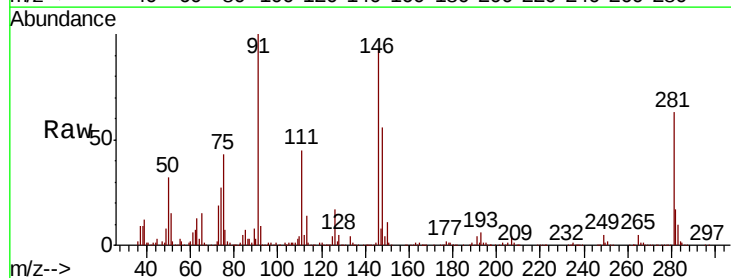
Tgt Ion: 91 Resp: 1576758

Ion Ratio Lower Upper

91 100

126 17.3 13.9 20.9

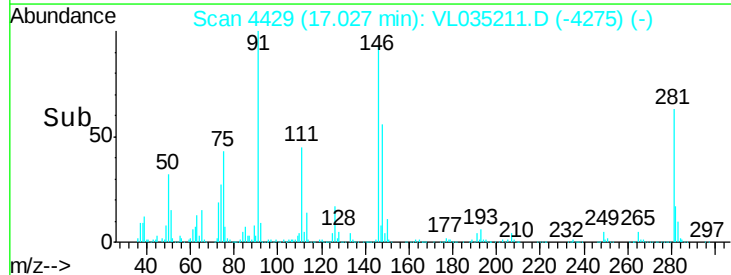
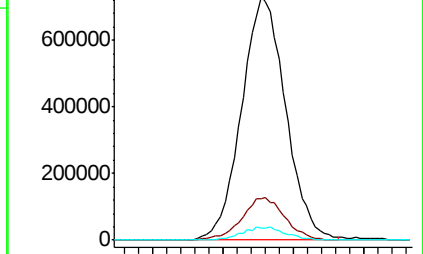
128 5.3 4.2 6.4

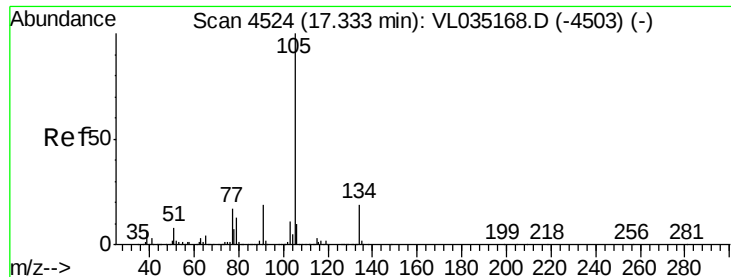


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

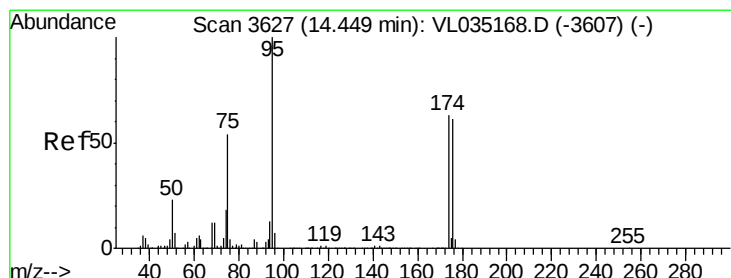
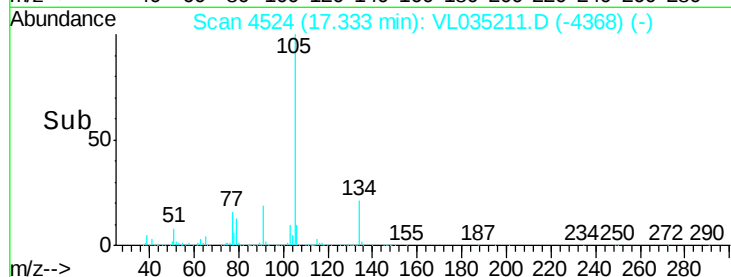
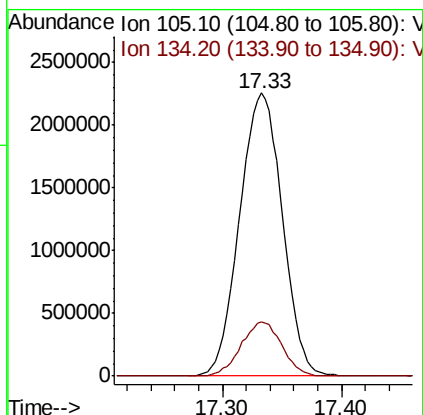
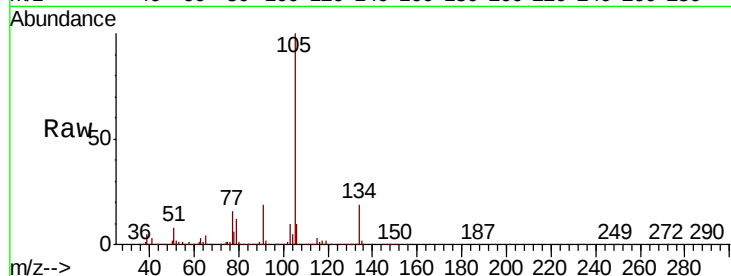




#67  
 sec-Butylbenzene  
 Concen: 8.340 ppbv  
 RT: 17.33 min Scan# 4524  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

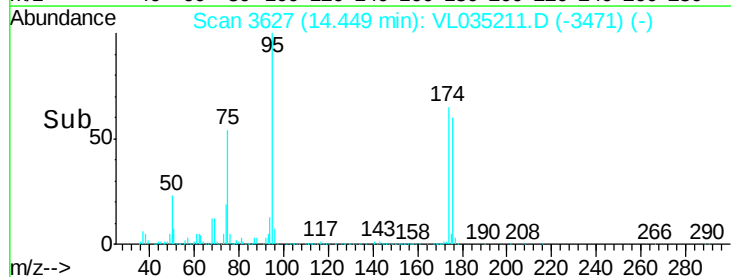
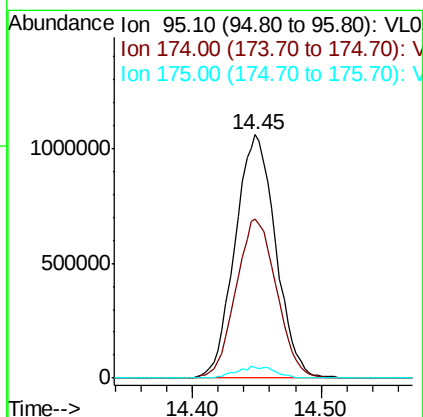
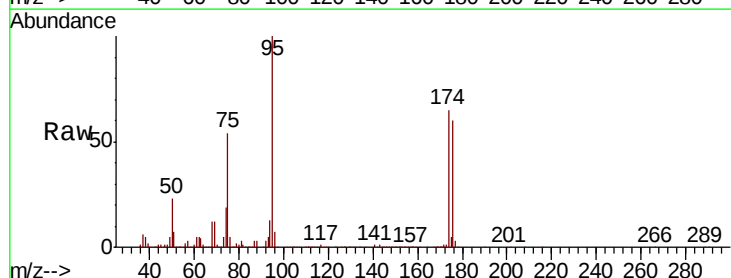
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

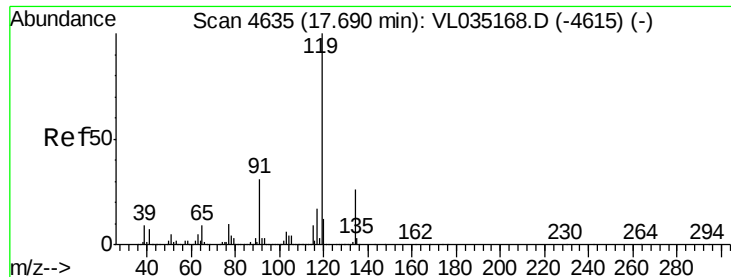
Tot Ion:105 Resp: 5591310  
 Ion Ratio Lower Upper  
 105 100  
 134 18.4 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.076 ppbv  
 RT: 14.45 min Scan# 3627  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 95 Resp: 2305983  
 Ion Ratio Lower Upper  
 95 100  
 174 66.0 52.2 78.2  
 175 4.7 4.0 6.0





#69

p-Isopropyltoluene

Concen: 8.828 ppbv

RT: 17.69 min Scan# 4635

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

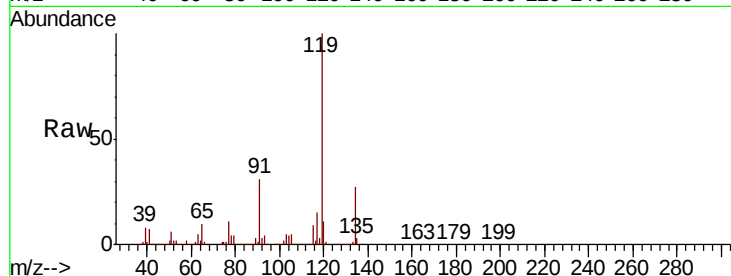
MSVOA\_L

ClientSampleId :

VL0721ABS01

Tot Ion:119 Resp: 4638806

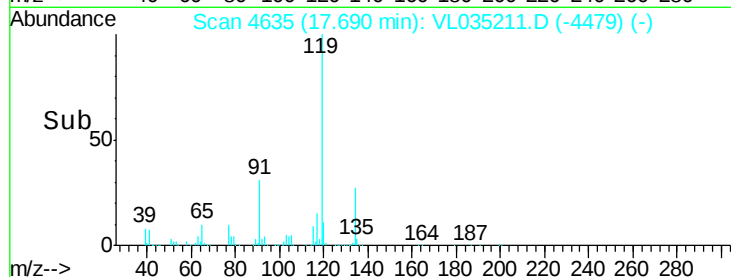
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 26.0  | 20.8  | 31.2  |
| 91  | 30.5  | 24.9  | 37.3  |



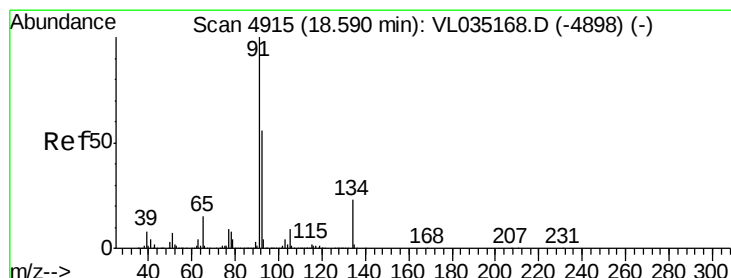
Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



Time-->



#70

n-Butylbenzene

Concen: 8.589 ppbv

RT: 18.59 min Scan# 4916

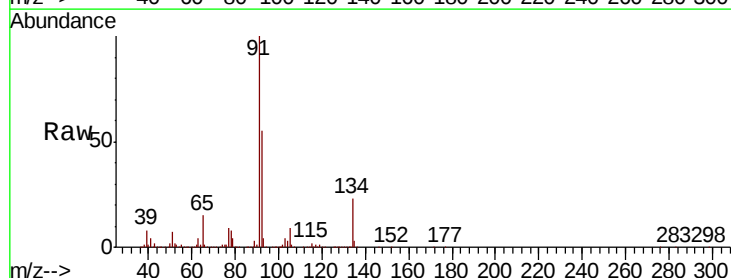
Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion: 91 Resp: 4785334

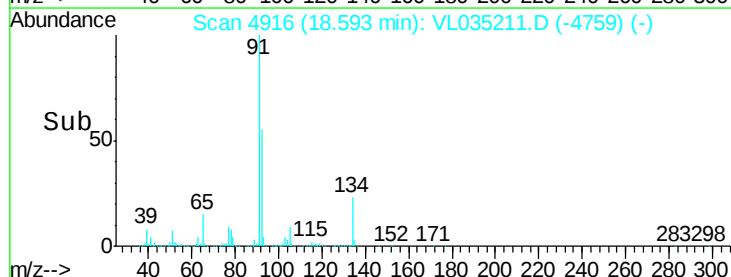
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 55.4  | 44.0  | 66.0  |
| 134 | 22.5  | 18.0  | 27.0  |



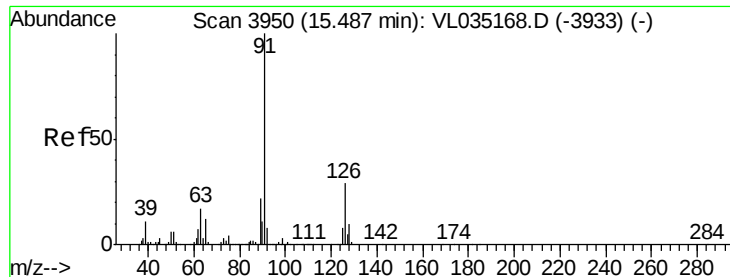
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



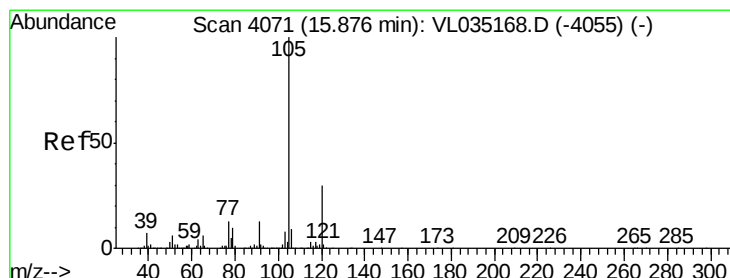
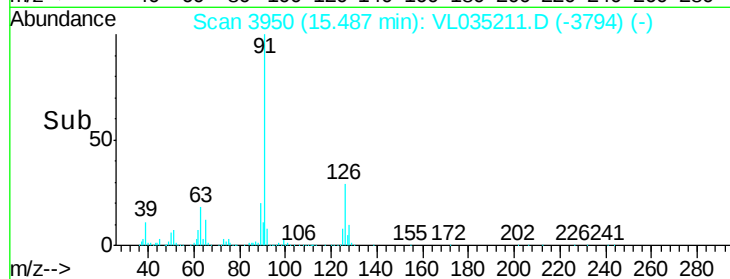
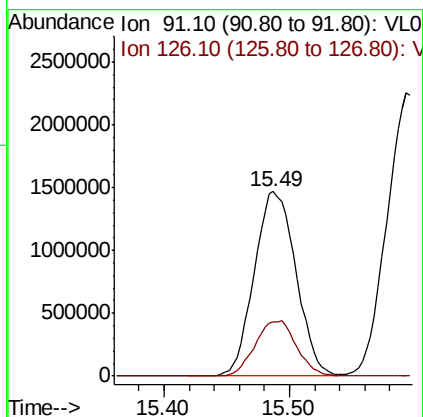
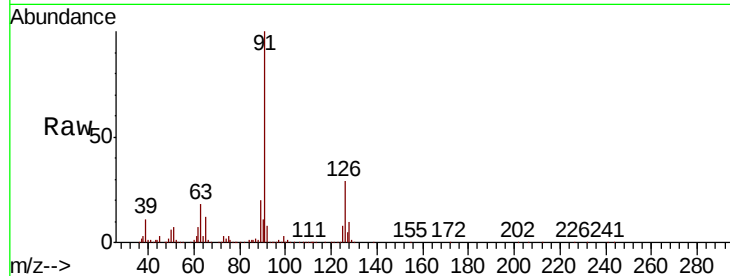
Time-->



#71  
 2-Chlorotoluene  
 Concen: 8.781 ppbv  
 RT: 15.49 min Scan# 3950  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

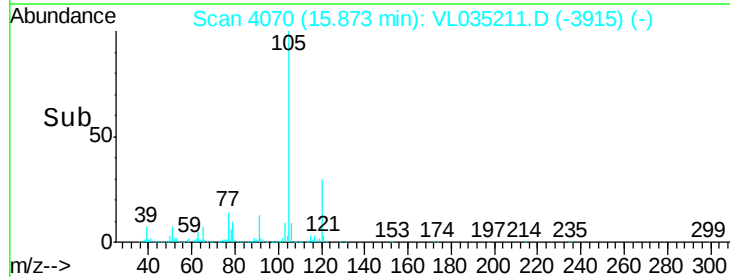
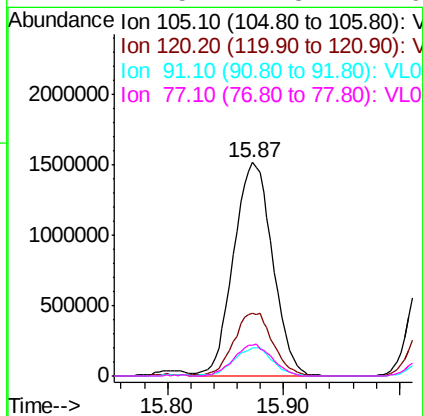
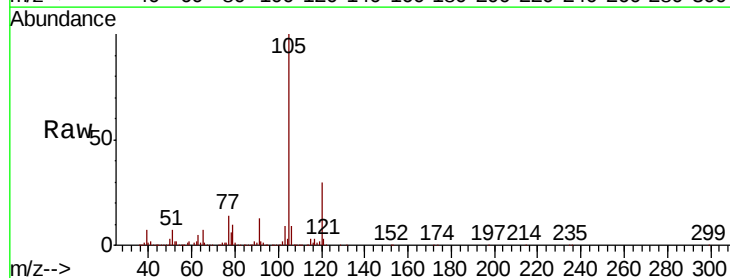
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

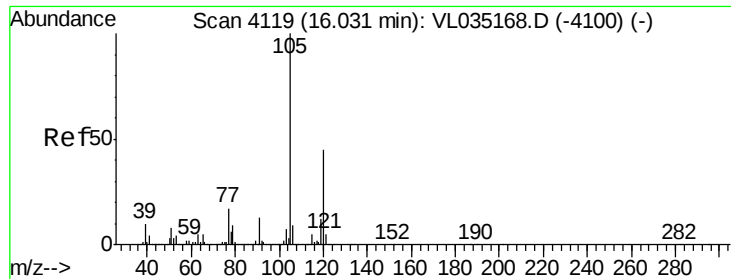
Tot Ion: 91 Resp: 3402235  
 Ion Ratio Lower Upper  
 91 100  
 126 29.9 12.0 48.0



#72  
 4-Ethyltoluene  
 Concen: 9.063 ppbv  
 RT: 15.87 min Scan# 4070  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion: 105 Resp: 3527301  
 Ion Ratio Lower Upper  
 105 100  
 120 30.1 23.2 34.8  
 91 13.1 10.9 16.3  
 77 14.5 11.8 17.6

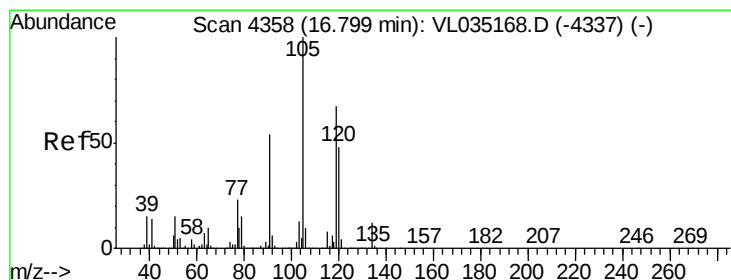
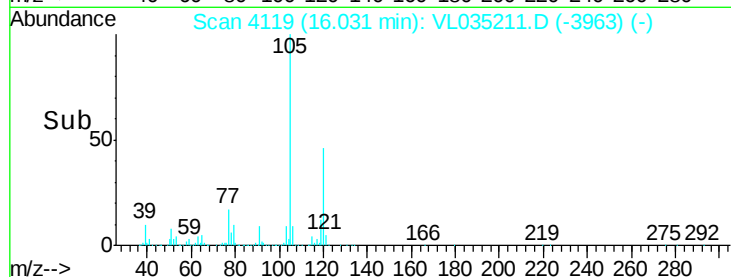
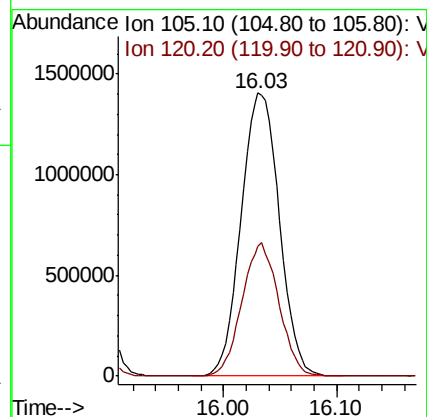
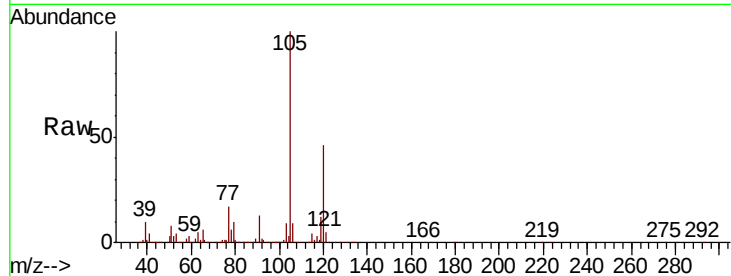




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.780 ppbv  
 RT: 16.03 min Scan# 4119  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

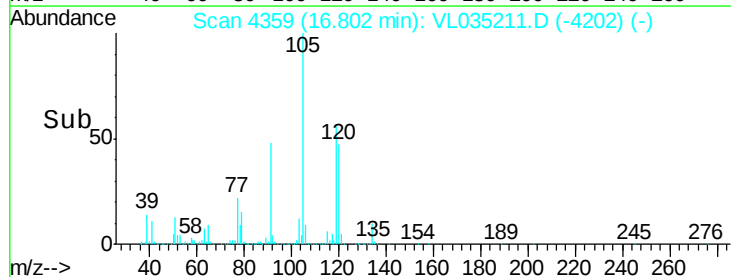
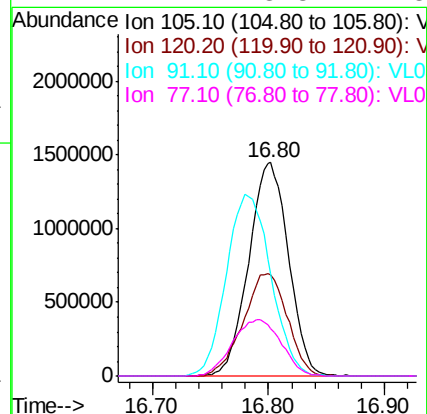
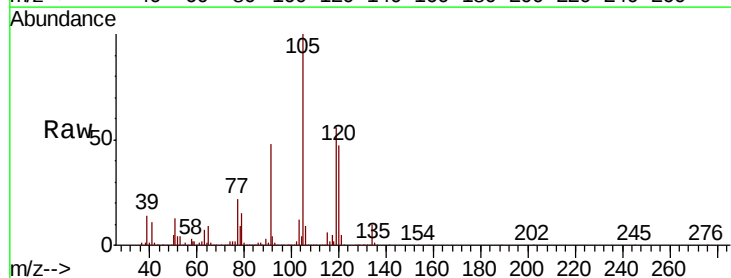
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

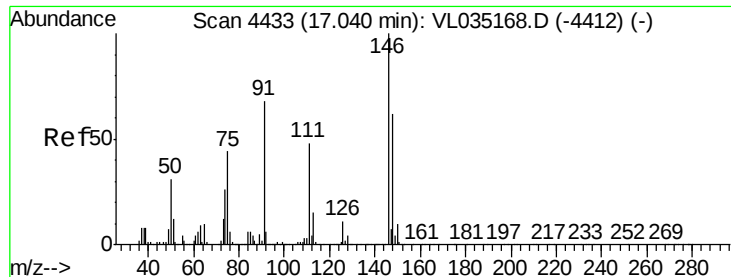
Tot Ion:105 Resp: 3295594  
 Ion Ratio Lower Upper  
 105 100  
 120 45.8 36.2 54.2



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.318 ppbv  
 RT: 16.80 min Scan# 4359  
 Delta R.T. 0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion:105 Resp: 3450012  
 Ion Ratio Lower Upper  
 105 100  
 120 47.2 38.6 57.8  
 91 47.7 43.6 65.4  
 77 22.4 18.3 27.5





#75

1,3-Dichlorobenzene

Concen: 7.374 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA\_L

ClientSampleId :

VL0721ABS01

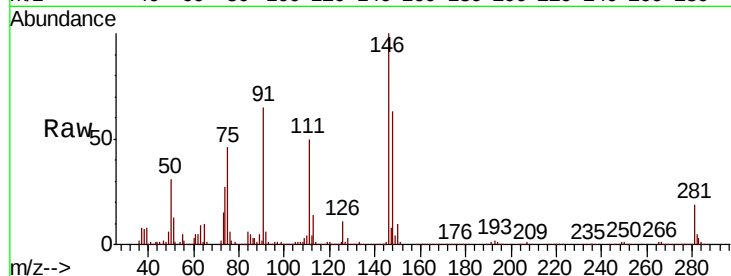
Tot Ion:146 Resp: 1936861

Ion Ratio Lower Upper

146 100

111 50.0 24.7 74.1

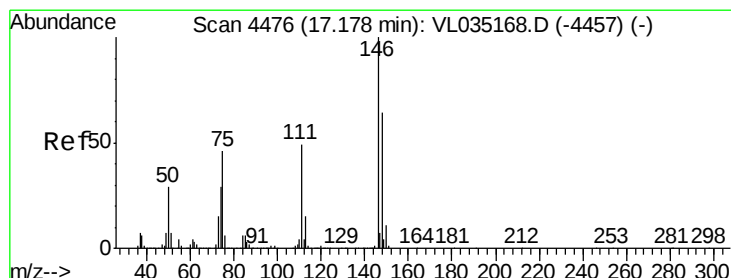
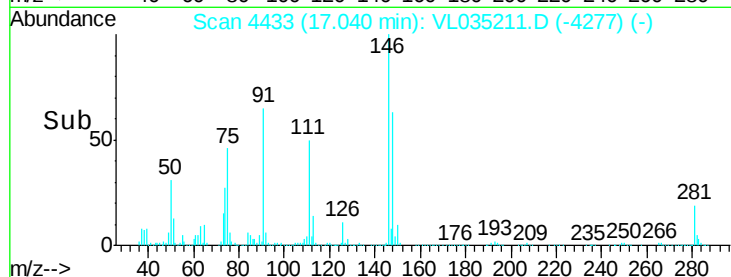
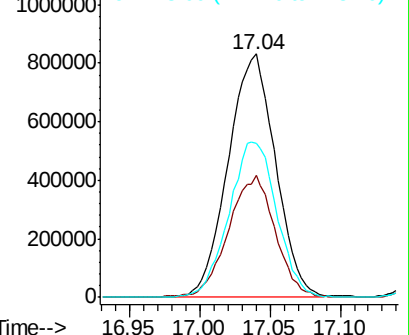
148 65.2 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.060 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

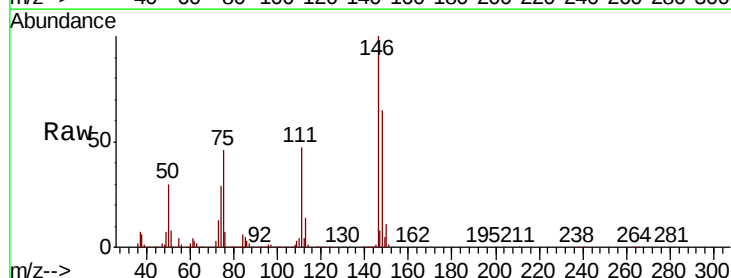
Tgt Ion:146 Resp: 1967559

Ion Ratio Lower Upper

146 100

111 47.0 23.8 71.2

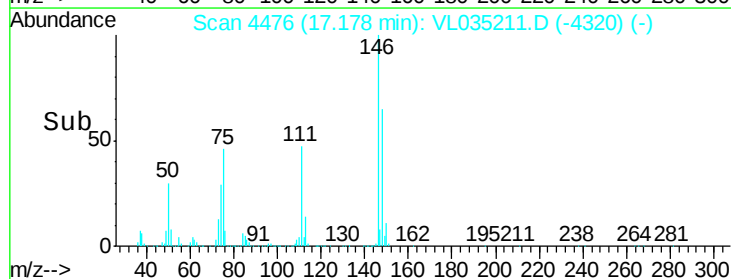
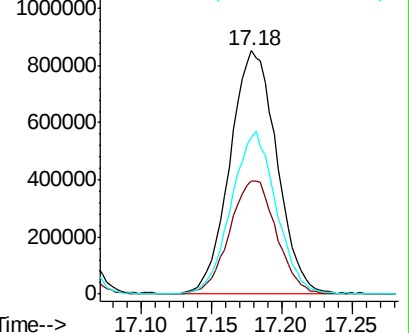
148 64.8 32.3 96.9

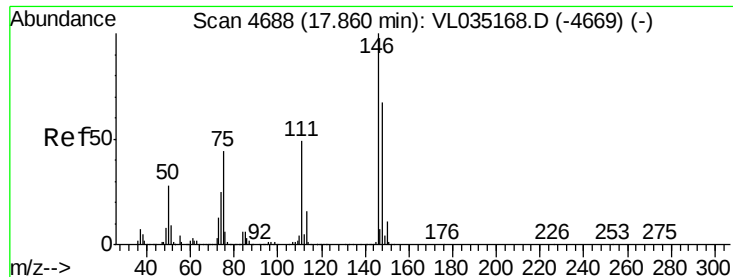


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

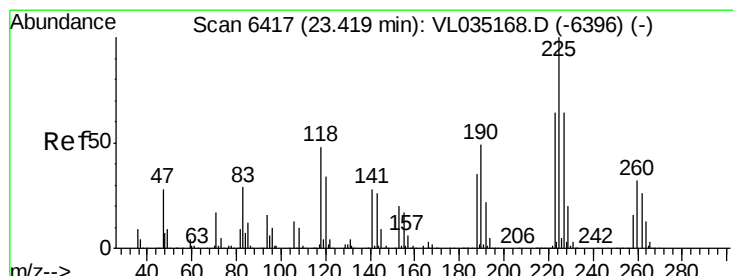
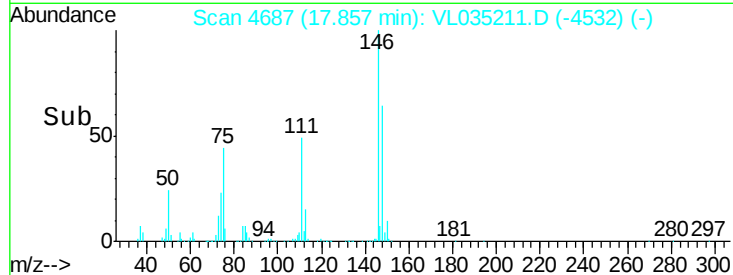
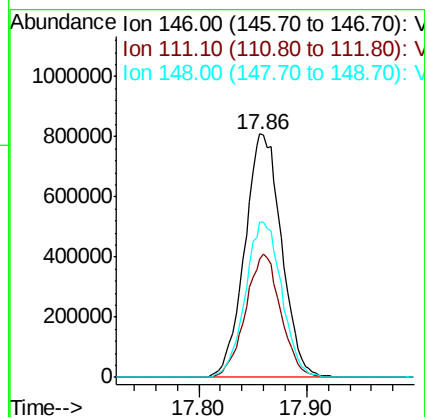
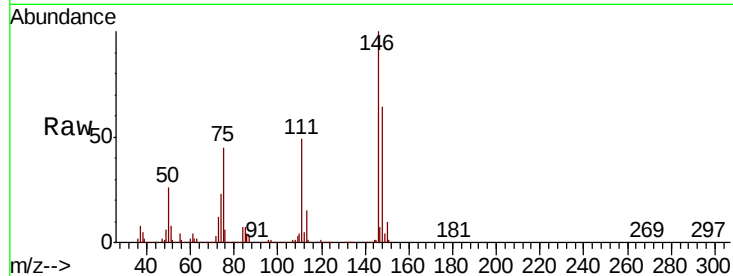




#77  
 1,2-Dichlorobenzene  
 Concen: 8.105 ppbv  
 RT: 17.86 min Scan# 4687  
 Delta R.T. -0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

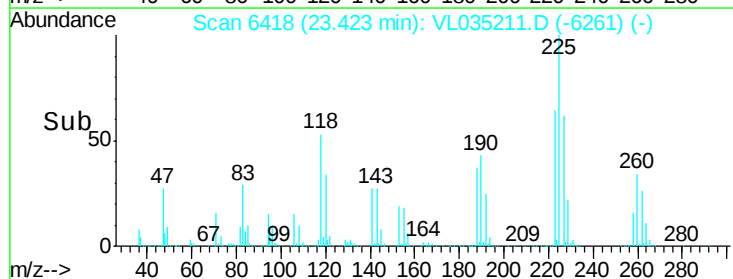
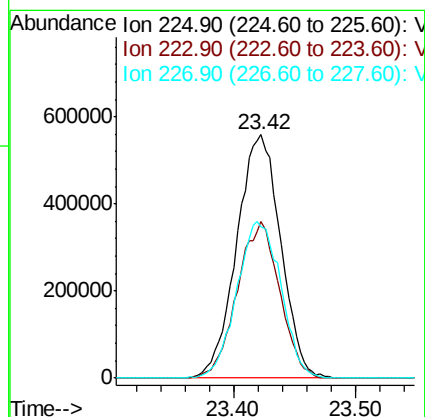
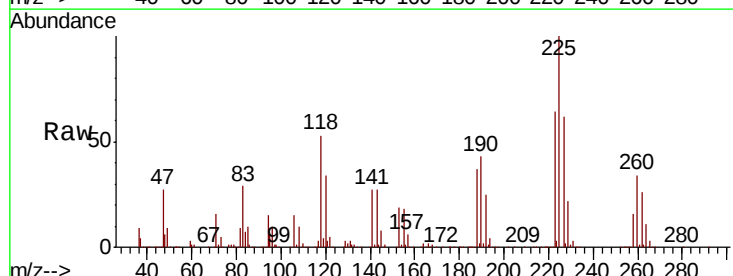
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

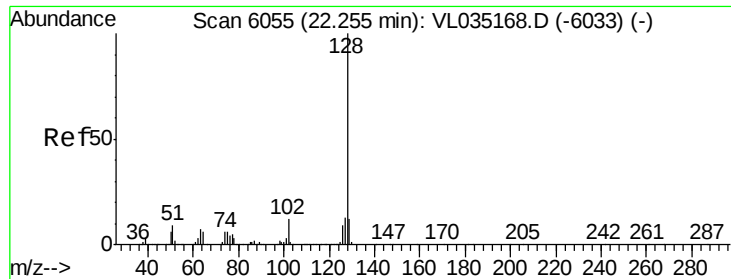
Tot Ion:146 Resp: 1916937  
 Ion Ratio Lower Upper  
 146 100  
 111 48.5 25.1 75.2  
 148 63.2 32.4 97.0



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 7.451 ppbv  
 RT: 23.42 min Scan# 6418  
 Delta R.T. 0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Tgt Ion:225 Resp: 1392413  
 Ion Ratio Lower Upper  
 225 100  
 223 62.1 50.2 75.2  
 227 64.7 51.2 76.8





#79

Naphthalene

Concen: 10.793 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

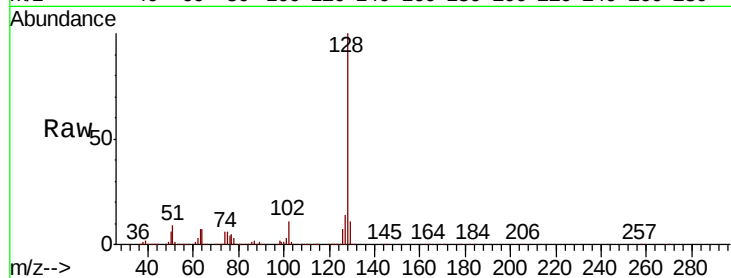
MSVOA\_L

ClientSampleId :

VL0721ABS01

Tot Ion:128 Resp: 2896797

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.8  | 10.8  | 16.2  |
| 129 | 11.3  | 9.4   | 14.2  |

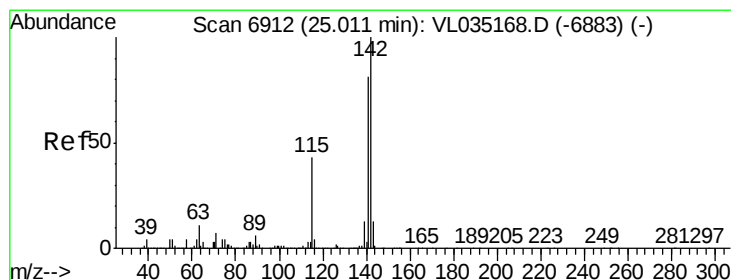
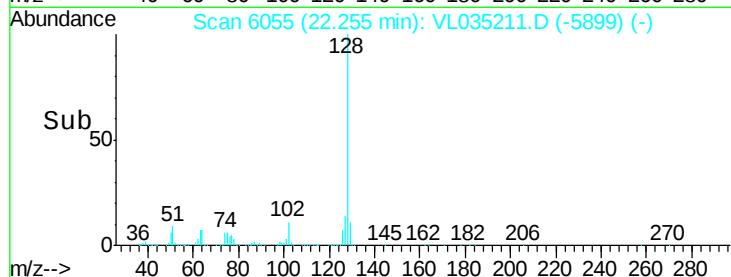
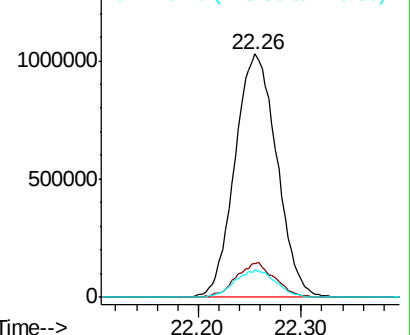


Abundance

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: 16.807 ppbv

RT: 25.01 min Scan# 6913

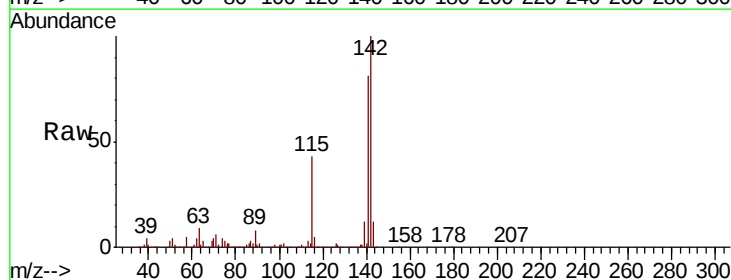
Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion:142 Resp: 1065567

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 84.5  | 68.2  | 102.4 |
| 115 | 42.7  | 34.4  | 51.6  |

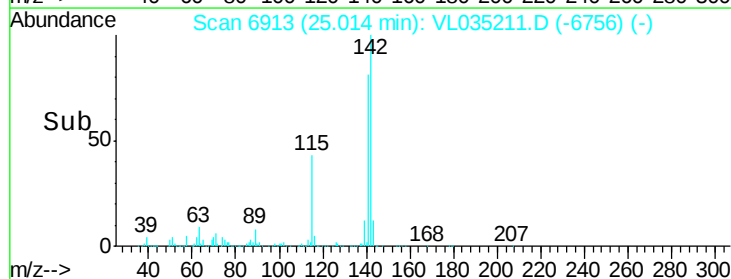
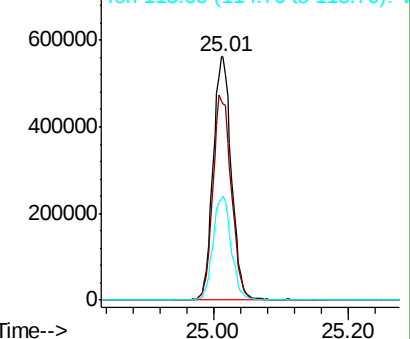


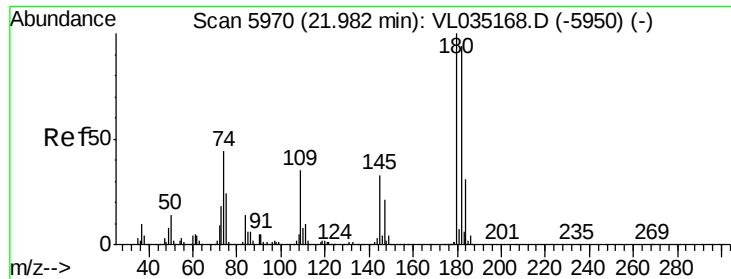
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

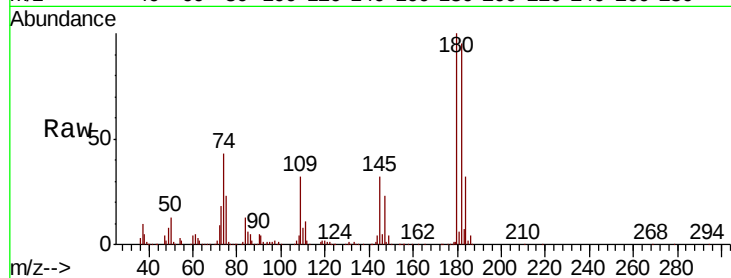




#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.417 ppbv  
 RT: 21.99 min Scan# 5971  
 Delta R.T. 0.00 min  
 Lab File: VL035211.D  
 Acq: 21 Jul 2020 12:23

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0721ABS01

Tot Ion:180 Resp: 1601226  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 76.7 115.1  
 184 30.9 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V  
 800000  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

