

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\  
 Data File : VL036149.D  
 Acq On : 11 Dec 2020 4:47  
 Operator : SY/AP  
 Sample : L5005-02DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 22:38:04 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020

QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1306795  | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 2629913  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2386693  | 10.00 | ppbv  | -0.04    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2064136  | 10.89    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 108.90% |

#### Target Compounds

|                                |       |     |         |             | Ovalue |
|--------------------------------|-------|-----|---------|-------------|--------|
| 5) Vinyl Chloride              | 3.25  | 62  | 82      | 0.001 ppbv  | # 44   |
| 6) Bromomethane                | 3.47  | 94  | 131     | 0.003 ppbv  | # 1    |
| 7) Chloroethane                | 3.29  | 64  | 165     | 0.006 ppbv  | # 84   |
| 8) Dichlorotetrafluoroethane   | 3.18  | 85  | 169     | 0.001 ppbv  | # 16   |
| 9) Propene                     | 3.01  | 41  | 54557m  | 0.730 ppbv  |        |
| 10) Heptane                    | 8.10  | 43  | 1106    | 0.006 ppbv  | # 29   |
| 11) Trichlorofluoromethane     | 3.96  | 101 | 213     | 0.001 ppbv  | # 94   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48  | 101 | 384     | 0.003 ppbv  | # 52   |
| 13) Ethanol                    | 3.59  | 45  | 662598m | 64.352 ppbv |        |
| 14) Bromoethene                | 3.72  | 108 | 73      | 0.001 ppbv  | # 60   |
| 15) Acetone                    | 3.84  | 43  | 213730  | 1.361 ppbv  | # 96   |
| 17) tert-Butyl alcohol         | 4.28  | 59  | 167     | 0.001 ppbv  | # 71   |
| 18) 1,1-Dichloroethene         | 4.27  | 96  | 101     | 0.002 ppbv  | # 8    |
| 20) Methylene Chloride         | 4.32  | 84  | 129265m | 2.008 ppbv  |        |
| 21) Allyl Chloride             | 4.39  | 41  | 206     | 0.002 ppbv  | # 18   |
| 22) trans-1,2-Dichloroethene   | 4.87  | 96  | 222     | 0.004 ppbv  | # 52   |
| 23) Vinyl Acetate              | 5.06  | 43  | 1523    | 0.007 ppbv  | # 1    |
| 24) 1,1-Dichloroethane         | 5.00  | 63  | 188     | 0.001 ppbv  | # 88   |
| 27) Carbon Disulfide           | 4.53  | 76  | 514     | 0.004 ppbv  | # 59   |
| 28) Methyl tert-Butyl Ether    | 5.02  | 73  | 350     | 0.002 ppbv  | # 51   |
| 29) Chloroform                 | 5.74  | 83  | 5063    | 0.027 ppbv  | # 76   |
| 30) Cyclohexane                | 7.10  | 84  | 741     | 0.007 ppbv  | # 1    |
| 31) cis-1,2-Dichloroethene     | 5.53  | 61  | 719     | 0.006 ppbv  | # 41   |
| 32) 1,1,1-Trichloroethane      | 6.27  | 97  | 158     | 0.001 ppbv  | # 86   |
| 35) Carbon Tetrachloride       | 7.00  | 117 | 566     | 0.004 ppbv  | # 20   |
| 36) Benzene                    | 6.87  | 78  | 5232    | 0.023 ppbv  | # 82   |
| 37) 1,2-Dichloroethane         | 6.29  | 62  | 646     | 0.005 ppbv  | # 83   |
| 38) Trichloroethene            | 7.81  | 130 | 392     | 0.005 ppbv  | # 26   |
| 40) 1,4-Dioxane                | 7.83  | 88  | 60      | 0.002 ppbv  | # 1    |
| 41) Tetrahydrofuran            | 6.03  | 42  | 895     | 0.009 ppbv  | # 40   |
| 42) Bromodichloromethane       | 7.77  | 83  | 496     | 0.003 ppbv  | # 34   |
| 43) Methyl Methacrylate        | 7.99  | 69  | 161     | 0.002 ppbv  | # 1    |
| 44) 2,2,4-Trimethylpentane     | 7.84  | 57  | 1455    | 0.004 ppbv  | # 1    |
| 45) t-1,3-Dichloropropene      | 9.22  | 75  | 240     | 0.002 ppbv  | # 42   |
| 46) cis-1,3-Dichloropropene    | 8.68  | 75  | 51      | 0.000 ppbv  | # 20   |
| 47) 1,1,2-Trichloroethane      | 9.45  | 97  | 357     | 0.004 ppbv  | # 41   |
| 48) Dibromochloromethane       | 10.30 | 129 | 341     | 0.003 ppbv  | # 99   |
| 49) Bromoform                  | 13.02 | 173 | 76      | 0.001 ppbv  | # 29   |
| 50) 4-Methyl-2-Pentanone       | 8.72  | 43  | 189     | 0.001 ppbv  | # 40   |
| 51) 2-Hexanone                 | 10.12 | 43  | 420     | 0.002 ppbv  | # 29   |
| 52) Tetrachloroethene          | 11.20 | 164 | 731     | 0.009 ppbv  | # 25   |

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Quant Time: Dec 14 22:38:04 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020

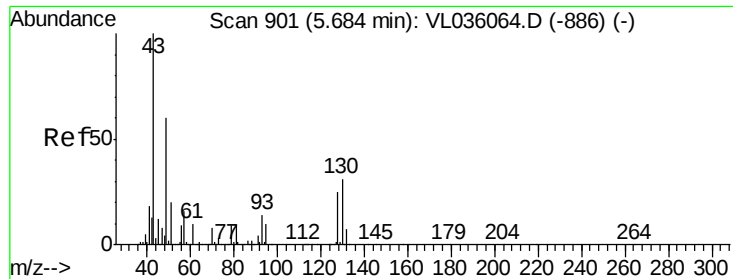
QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 194      | 0.002 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 179      | 0.002 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.13 | 112  | 372      | 0.002 | ppbv # | 77       |
| 58) Ethyl Benzene             | 12.69 | 91   | 2203     | 0.007 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.98 | 91   | 2209     | 0.008 | ppbv # | 1        |
| 60) o-Xylene                  | 13.91 | 91   | 186      | 0.001 | ppbv   | 71       |
| 61) Styrene                   | 13.51 | 104  | 930      | 0.006 | ppbv # | 19       |
| 62) Isopropylbenzene          | 14.64 | 105  | 238      | 0.001 | ppbv # | 50       |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 694      | 0.004 | ppbv # | 25       |
| 64) n-propylbenzene           | 15.85 | 120  | 88       | 0.001 | ppbv   | 78       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 53       | 0.000 | ppbv # | 15       |
| 66) Benzyl Chloride           | 16.97 | 91   | 136      | 0.002 | ppbv # | 66       |
| 67) sec-Butylbenzene          | 17.26 | 105  | 381      | 0.001 | ppbv # | 60       |
| 69) p-Isopropyltoluene        | 17.62 | 119  | 260      | 0.001 | ppbv # | 46       |
| 70) n-Butylbenzene            | 18.53 | 91   | 373      | 0.001 | ppbv   | 95       |
| 71) 2-Chlorotoluene           | 15.57 | 91   | 600      | 0.002 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.81 | 105  | 798      | 0.003 | ppbv # | 1        |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 566      | 0.002 | ppbv # | 78       |
| 74) 1,2,4-Trimethylbenzene    | 16.73 | 105  | 998      | 0.004 | ppbv # | 61       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 427      | 0.003 | ppbv # | 1        |
| 76) 1,4-Dichlorobenzene       | 17.11 | 146  | 182      | 0.001 | ppbv # | 1        |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 186      | 0.001 | ppbv # | 24       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 118      | 0.001 | ppbv # | 57       |
| 79) Naphthalene               | 22.19 | 128  | 195      | 0.001 | ppbv # | 67       |
| 80) Naphthalene,2-methyl-     | 24.93 | 142  | 107      | 0.003 | ppbv # | 1        |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 77       | 0.001 | ppbv # | 100      |
| -----                         |       |      |          |       |        |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

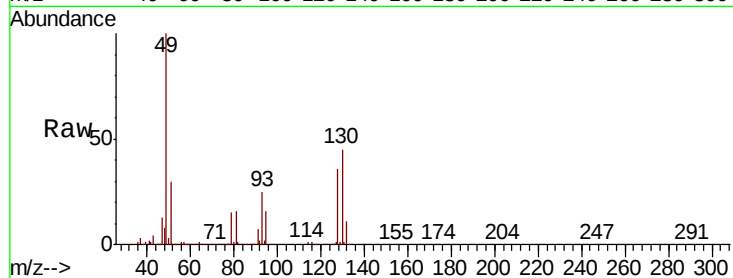
Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tot Ion: 49 Resp: 1306795

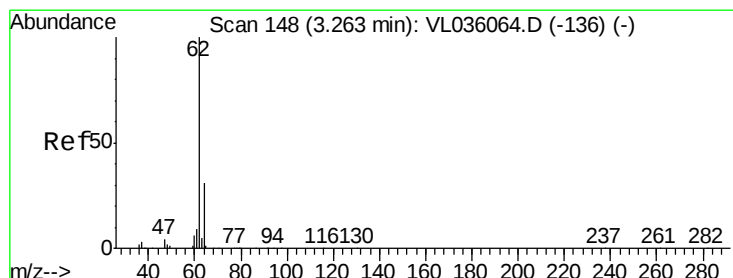
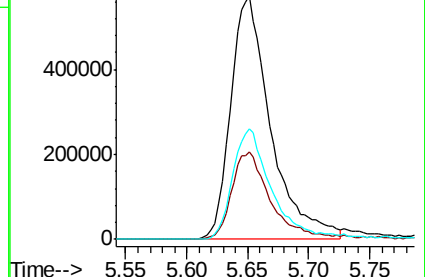
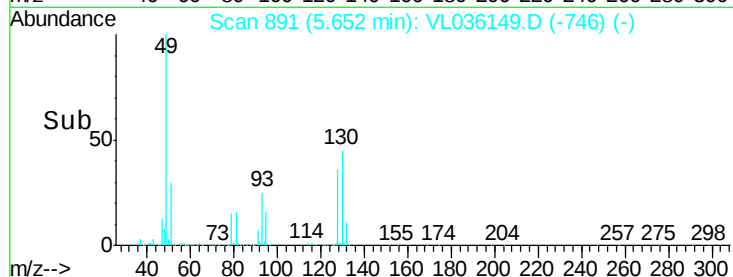
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 36.2  | 21.1  | 63.1  |
| 130 | 46.0  | 27.1  | 81.3  |



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



#5

Vinyl Chloride

Concen: 0.001 ppbv

RT: 3.25 min Scan# 143

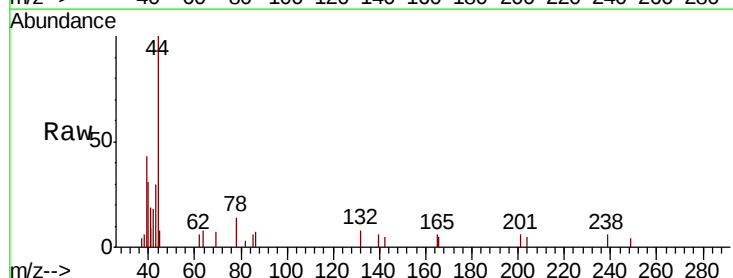
Delta R.T. -0.02 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

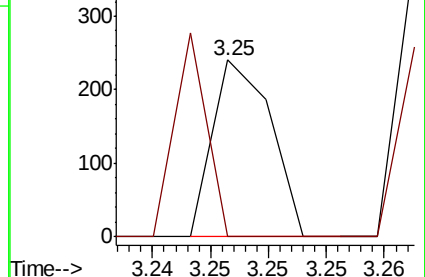
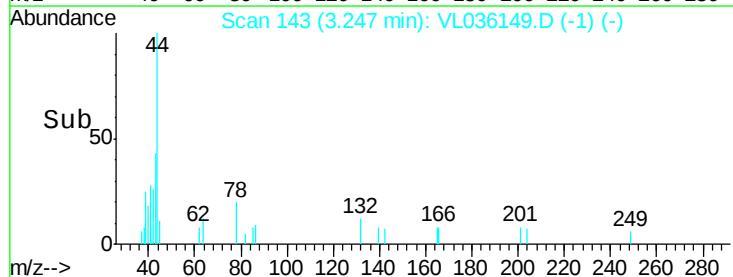
Tgt Ion: 62 Resp: 82

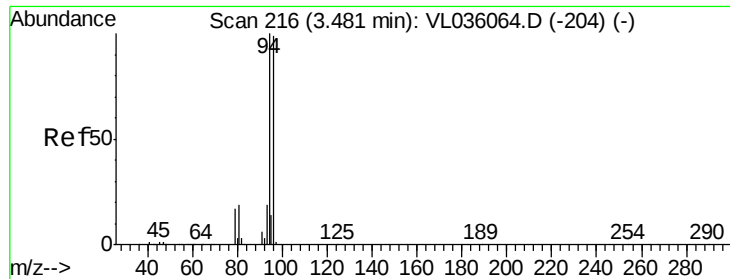
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 64  | 0.0   | 24.5  | 36.7  |



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.003 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.02 min

Lab File: VL036149.D

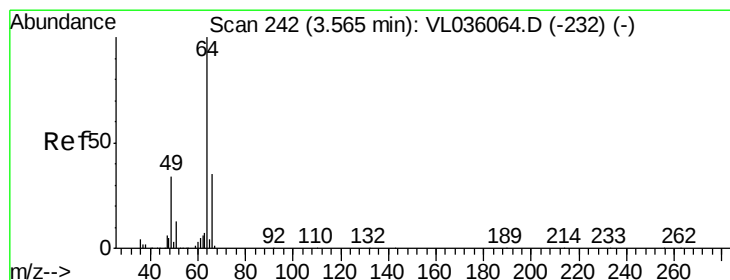
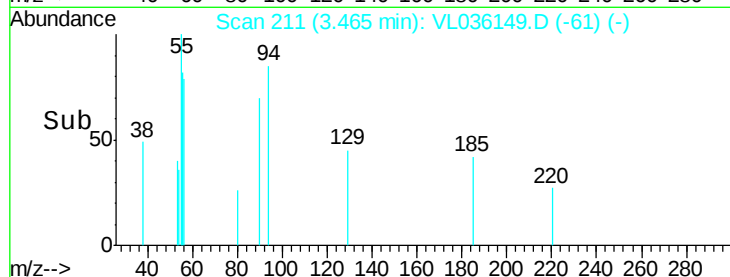
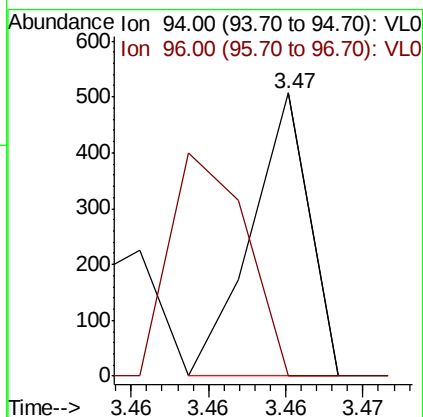
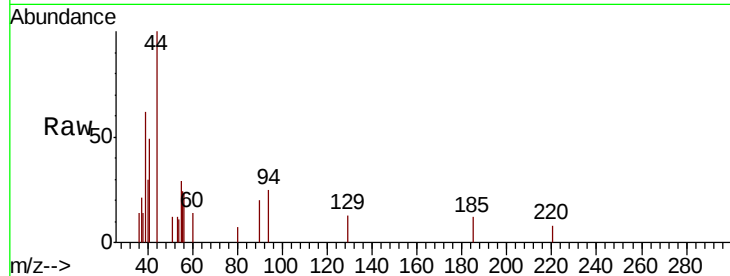
Acq: 11 Dec 2020 4:47

Tot Ion: 94 Resp: 131

Ion Ratio Lower Upper

94 100

96 0.0 79.4 119.0#



#7

Chloroethane

Concen: 0.006 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.27 min

Lab File: VL036149.D

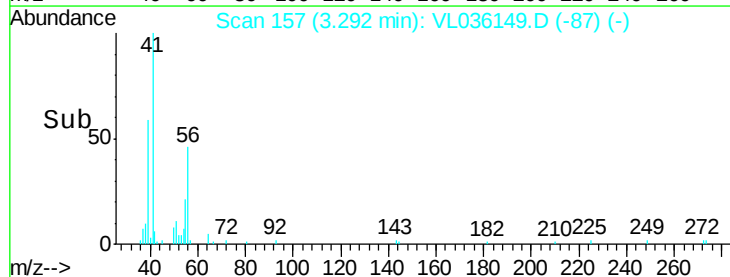
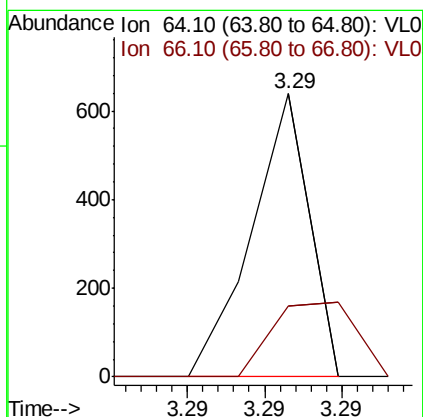
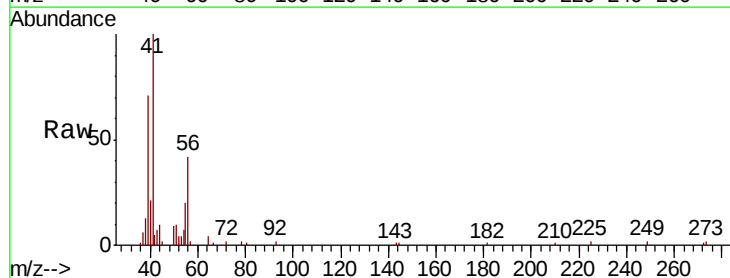
Acq: 11 Dec 2020 4:47

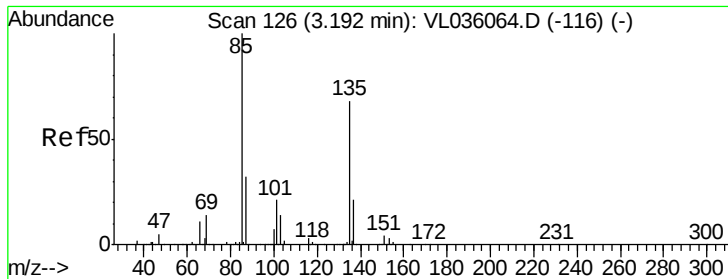
Tgt Ion: 64 Resp: 165

Ion Ratio Lower Upper

64 100

66 25.1 27.7 41.5#





#8

Dichlorotetrafluoroethane

Concen: 0.001 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.02 min

Lab File: VL036149.D

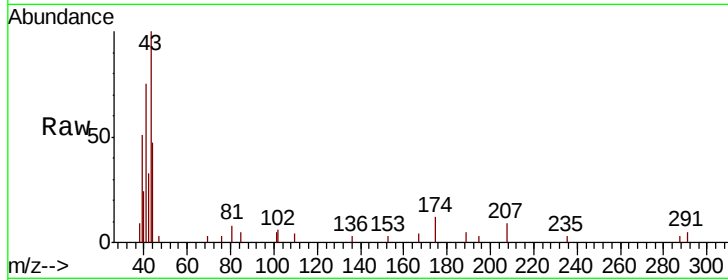
Acq: 11 Dec 2020 4:47

Tot Ion: 85 Resp: 169

Ion Ratio Lower Upper

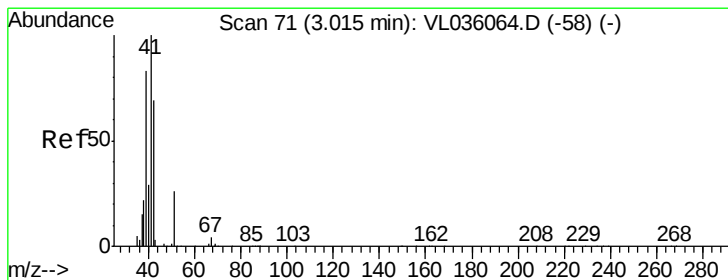
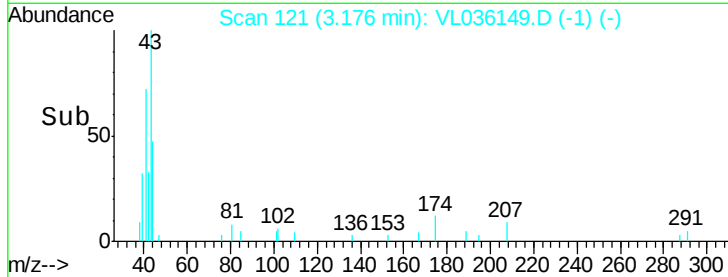
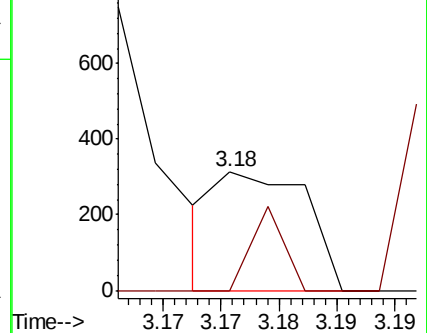
85 100

135 0.0 53.8 80.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.730 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL036149.D

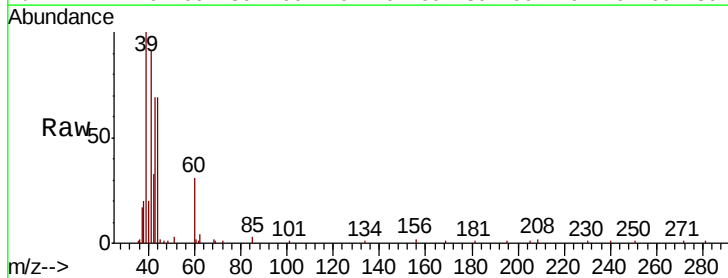
Acq: 11 Dec 2020 4:47

Tgt Ion: 41 Resp: 54557

Ion Ratio Lower Upper

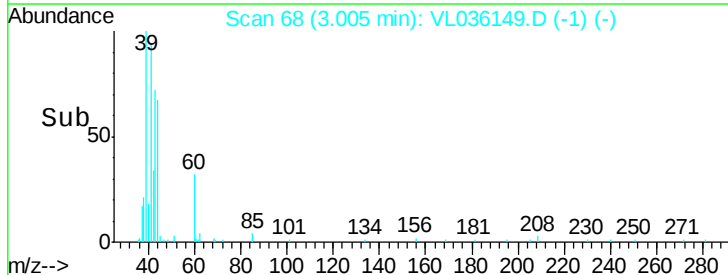
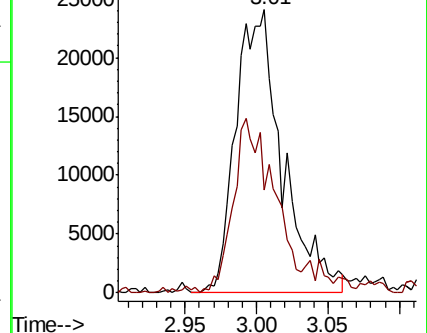
41 100

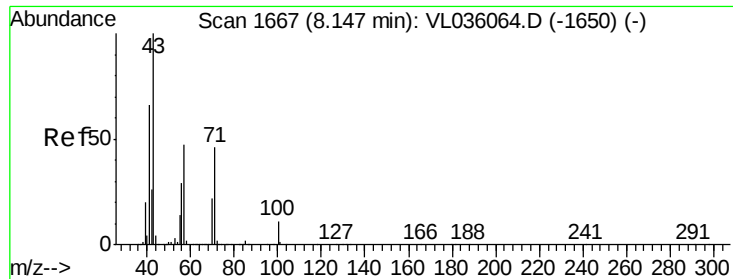
42 61.7 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.006 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.05 min

Lab File: VL036149.D

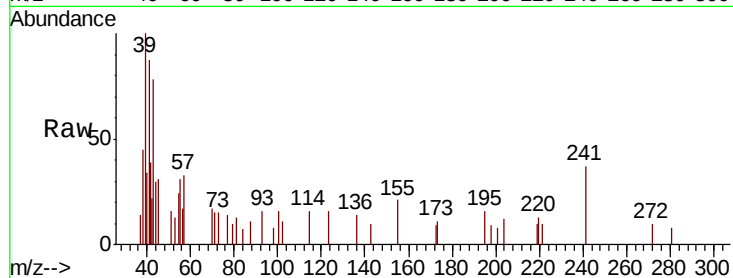
Acq: 11 Dec 2020 4:47

Tot Ion: 43 Resp: 1106

Ion Ratio Lower Upper

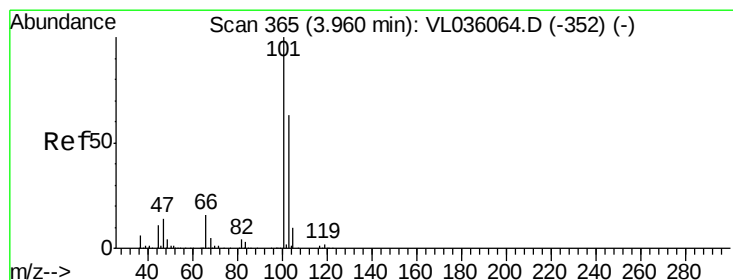
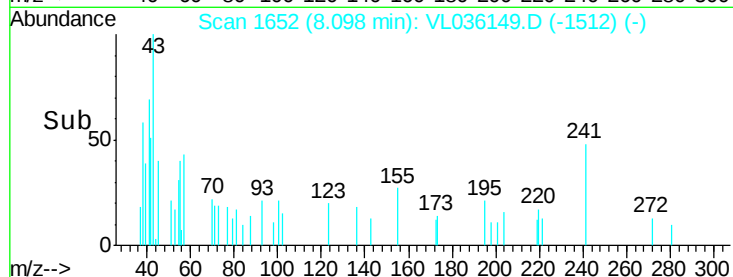
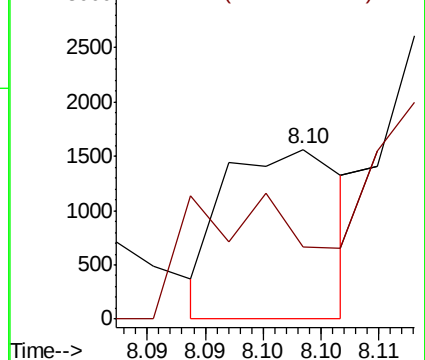
43 100

57 0.0 37.9 56.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.001 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL036149.D

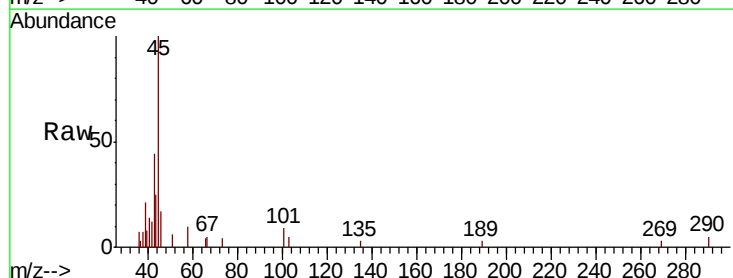
Acq: 11 Dec 2020 4:47

Tgt Ion: 101 Resp: 213

Ion Ratio Lower Upper

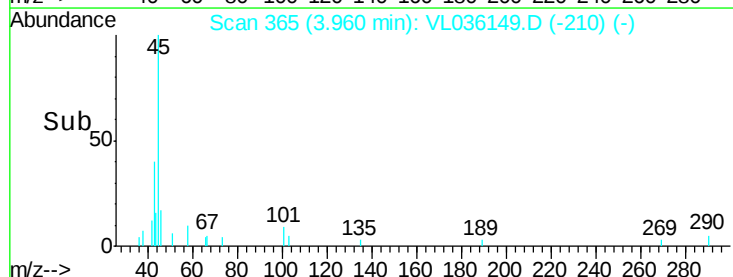
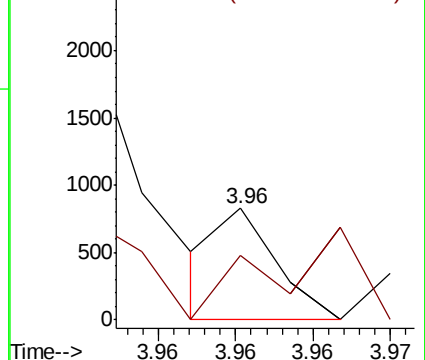
101 100

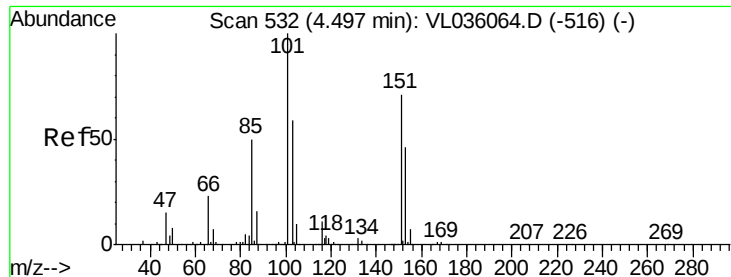
103 58.1 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.003 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.02 min

Lab File: VL036149.D

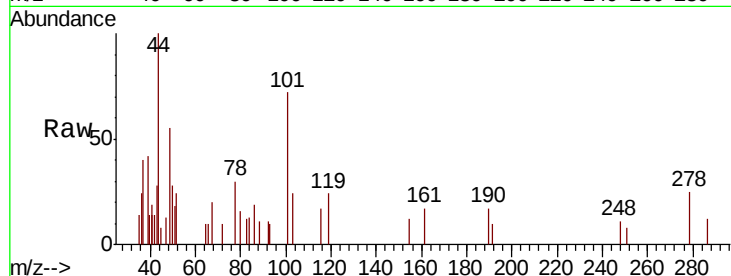
Acq: 11 Dec 2020 4:47

Tot Ion: 101 Resp: 384

Ion Ratio Lower Upper

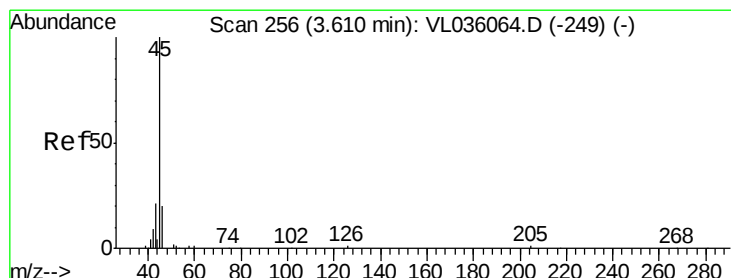
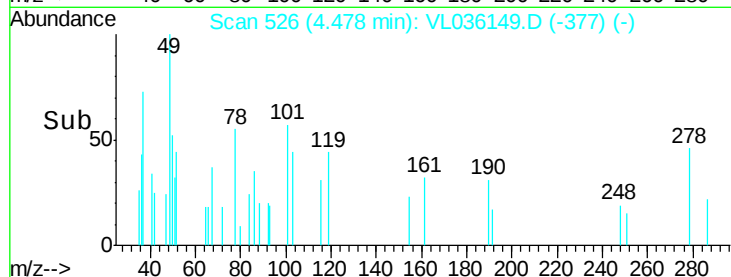
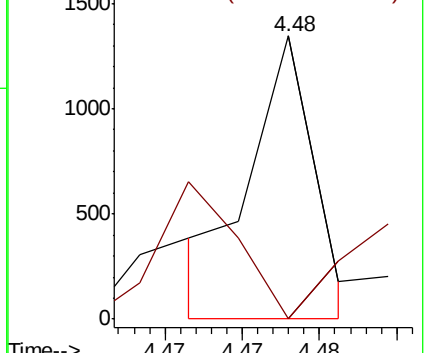
101 100

151 115.1 59.3 88.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 64.352 ppbv m

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL036149.D

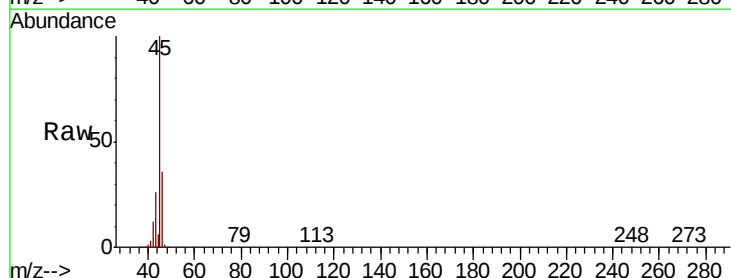
Acq: 11 Dec 2020 4:47

Tgt Ion: 45 Resp: 662598

Ion Ratio Lower Upper

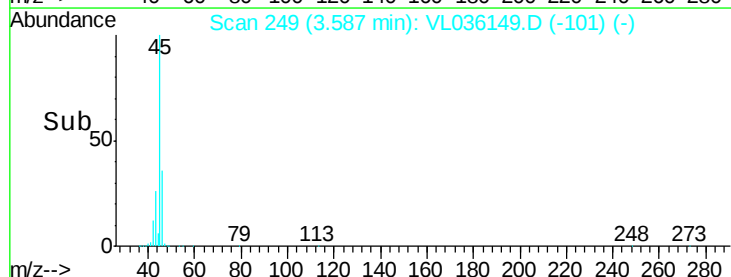
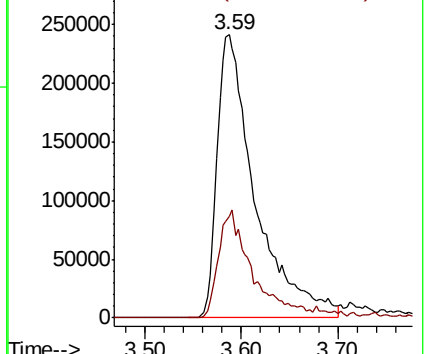
45 100

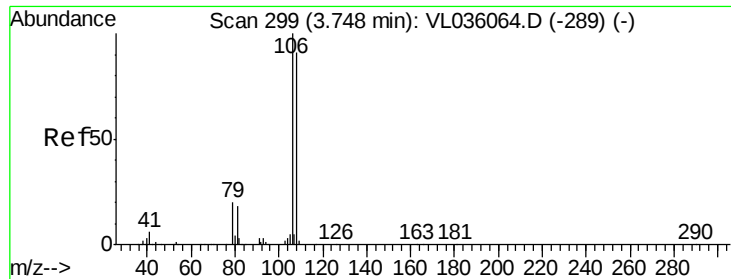
46 35.4 19.0 75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.001 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

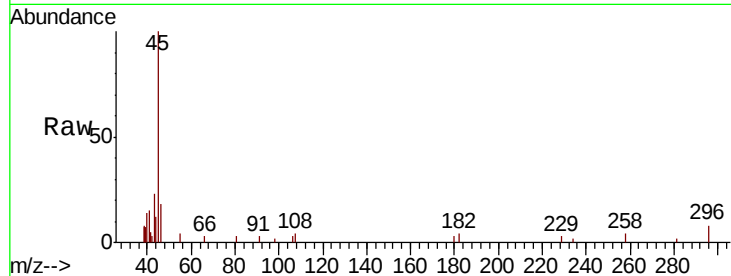
Tot Ion: 108 Resp: 73

Ion Ratio Lower Upper

108 100

106 72.6 91.0 136.4#

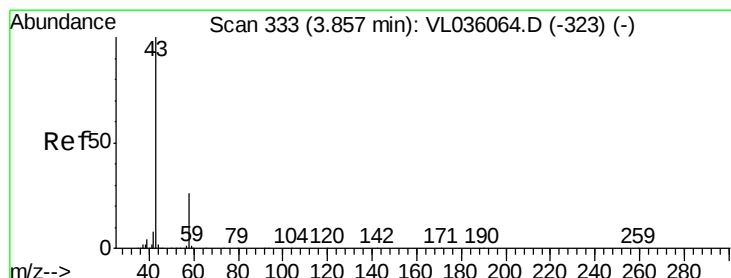
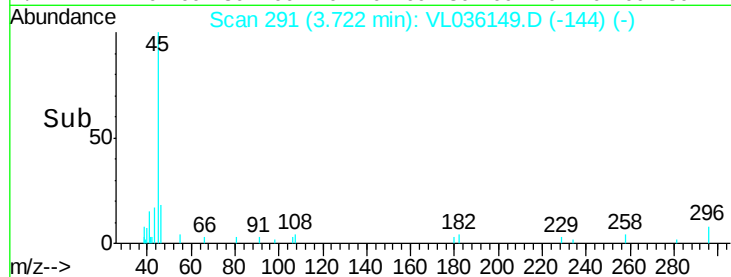
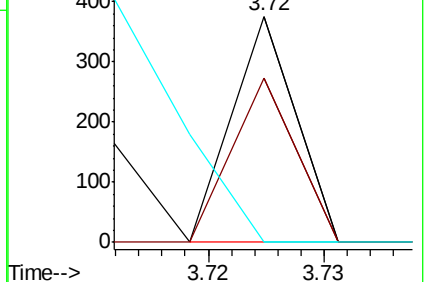
79 0.0 19.3 28.9#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 1.361 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.02 min

Lab File: VL036149.D

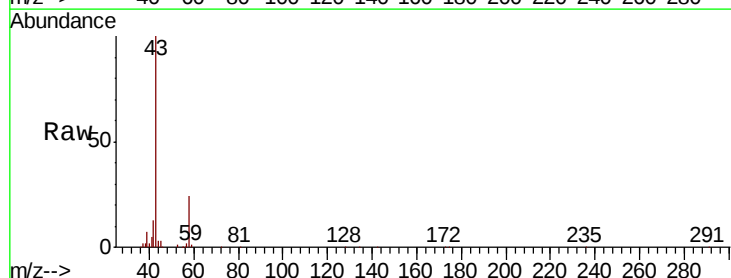
Acq: 11 Dec 2020 4:47

Tgt Ion: 43 Resp: 213730

Ion Ratio Lower Upper

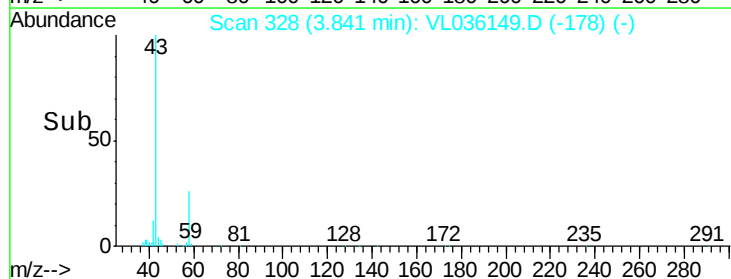
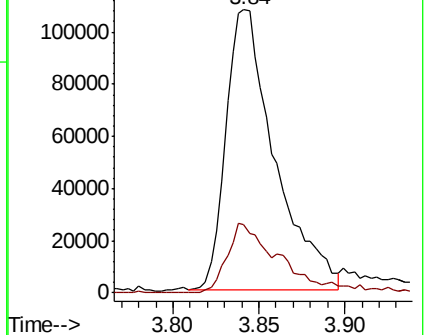
43 100

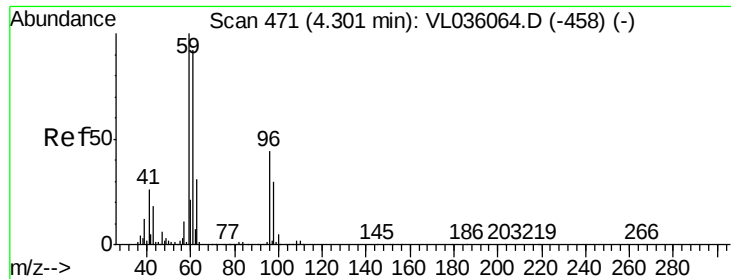
58 28.3 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#17

tert-Butyl alcohol

Concen: 0.001 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL036149.D

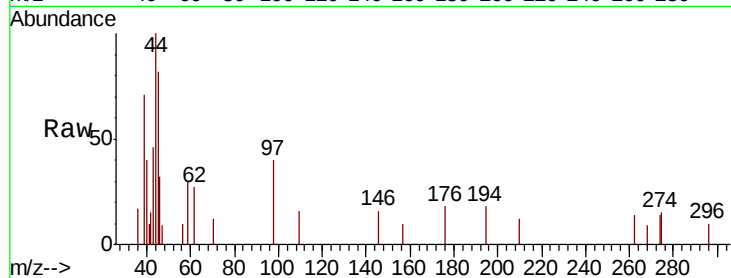
Acq: 11 Dec 2020 4:47

Tot Ion: 59 Resp: 167

Ion Ratio Lower Upper

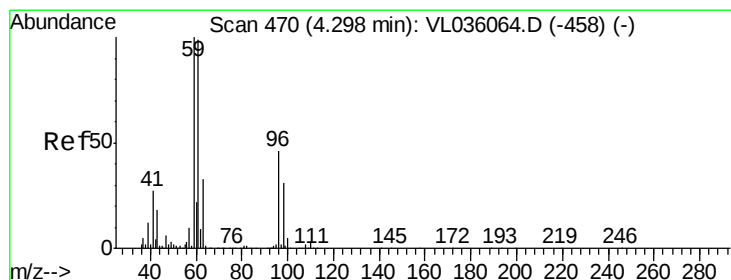
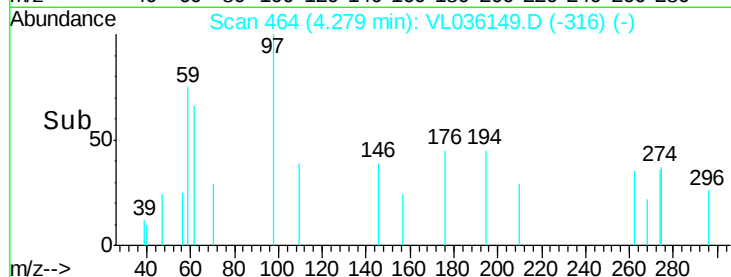
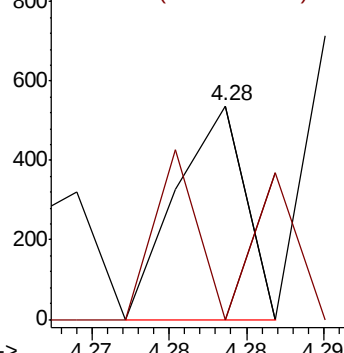
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.002 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

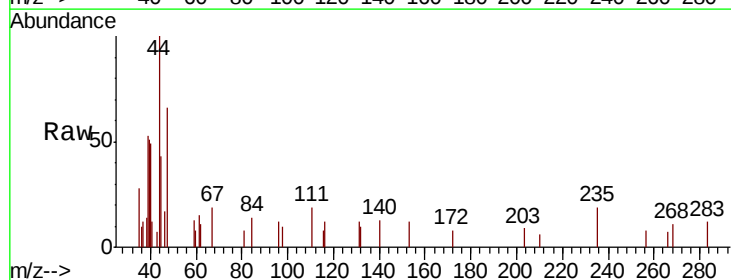
Tgt Ion: 96 Resp: 101

Ion Ratio Lower Upper

96 100

61 31.1 171.4 257.2#

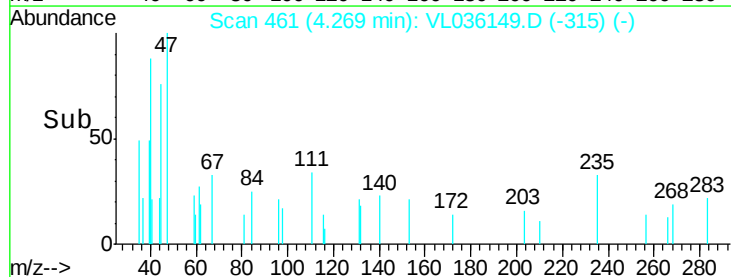
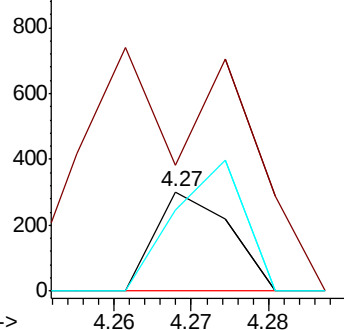
98 81.8 54.2 81.2#

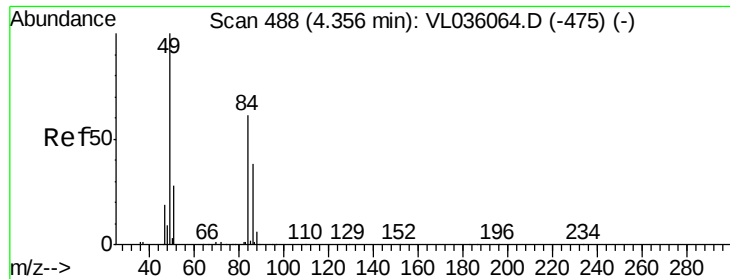


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#20

Methylene Chloride

Concen: 2.008 ppbv m

RT: 4.32 min Scan# 478

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tot Ion: 84 Resp: 129265

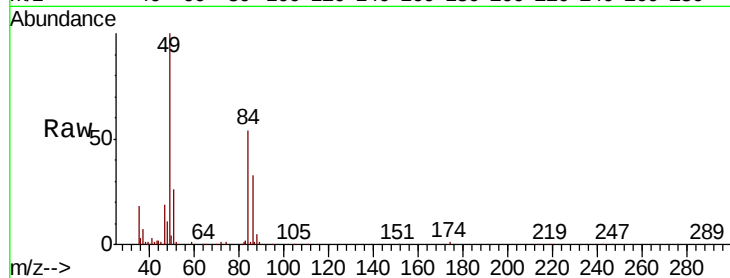
Ion Ratio Lower Upper

84 100

49 184.3 133.0 199.4

51 48.2 38.9 58.3

86 60.7 48.8 73.2

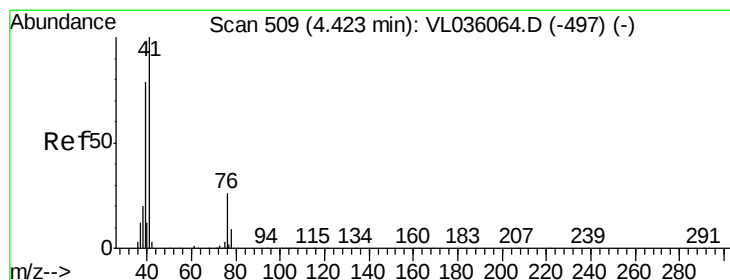
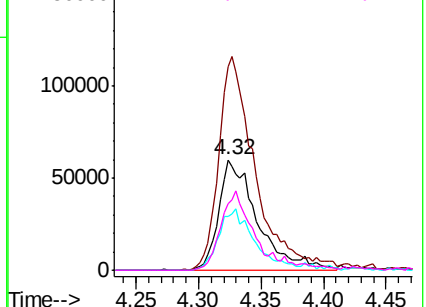
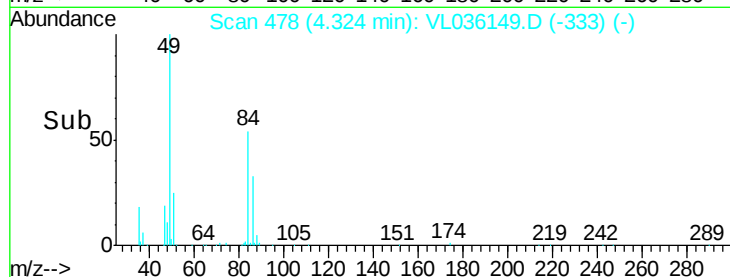


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.002 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

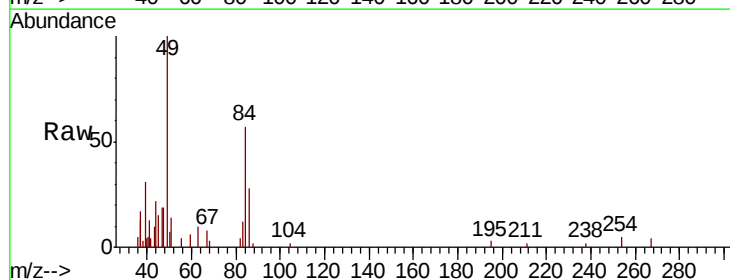
Tgt Ion: 41 Resp: 206

Ion Ratio Lower Upper

41 100

76 0.0 21.0 31.4#

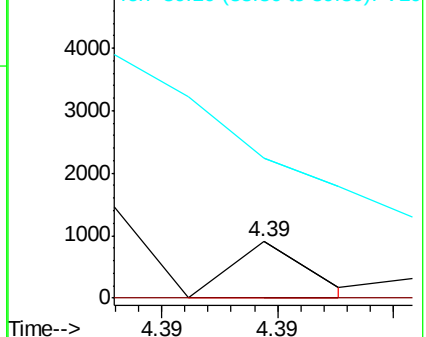
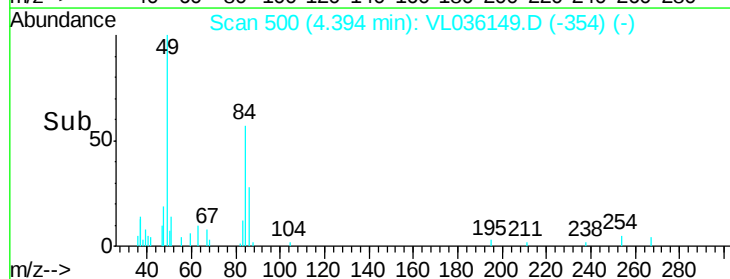
39 0.0 66.0 99.0#

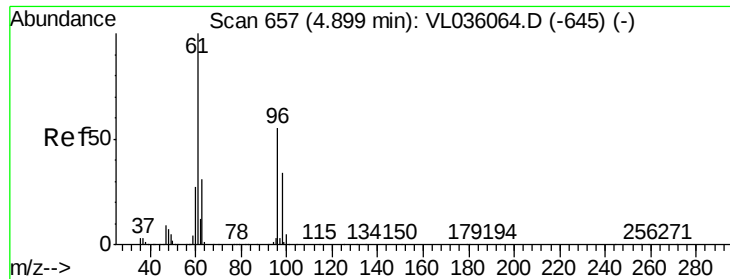


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.004 ppbv

RT: 4.87 min Scan# 649

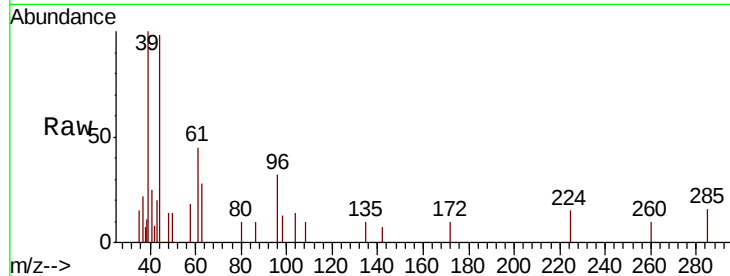
Delta R.T. -0.03 min

Lab File: VL036149.D

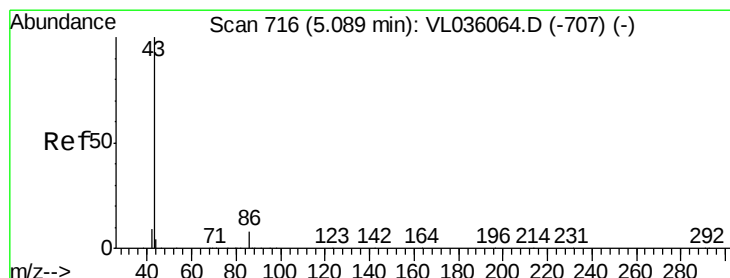
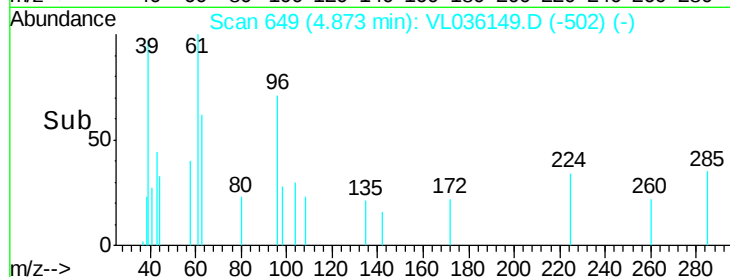
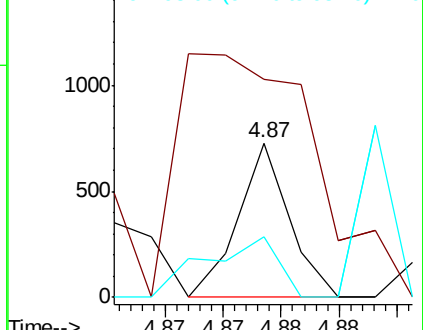
Acq: 11 Dec 2020 4:47

Tot Ion: 96 Resp: 222

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 103.8 | 145.7 | 218.5# |
| 98  | 39.4  | 49.2  | 73.8#  |



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



#23

Vinyl Acetate

Concen: 0.007 ppbv

RT: 5.06 min Scan# 707

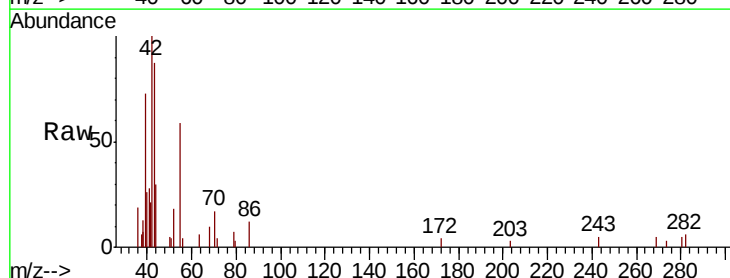
Delta R.T. -0.03 min

Lab File: VL036149.D

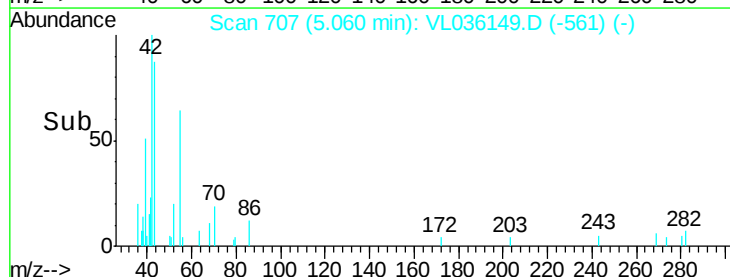
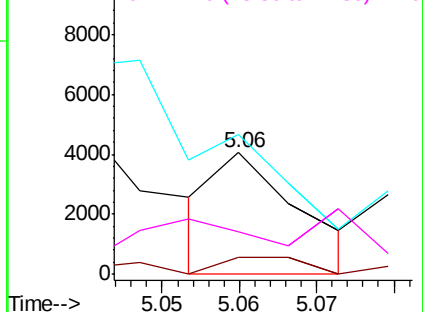
Acq: 11 Dec 2020 4:47

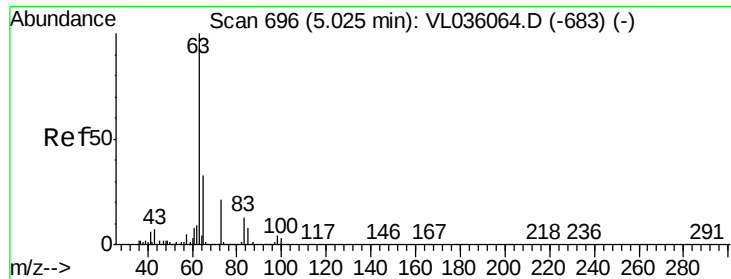
Tgt Ion: 43 Resp: 1523

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 20.7  | 5.0   | 7.4#  |
| 42  | 122.2 | 7.8   | 11.6# |
| 44  | 0.0   | 3.2   | 4.8#  |



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





#24

1,1-Dichloroethane

Concen: 0.001 ppbv

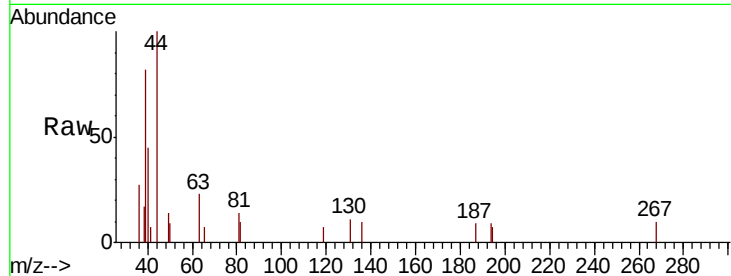
RT: 5.00 min Scan# 688

Delta R.T. -0.03 min

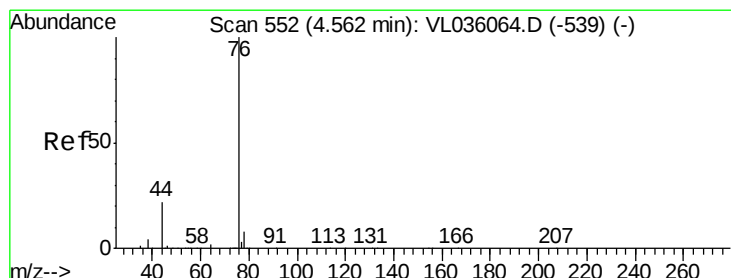
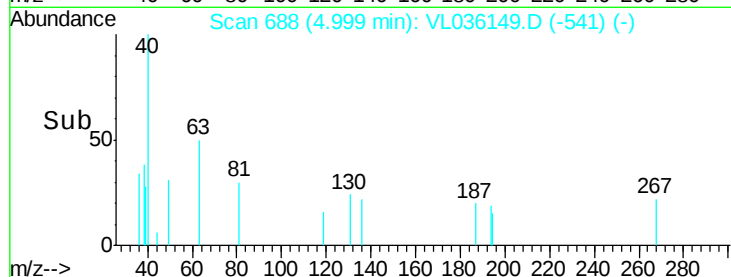
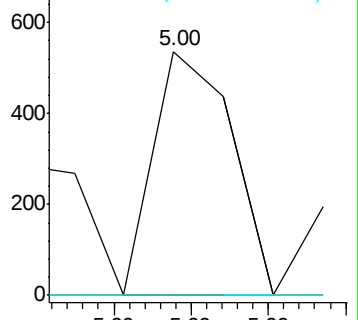
Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 188   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 2.2   | 6.6#  |
| 100      | 0.0   | 1.5   | 4.4#  |



Abundance Ion 63.10 (62.80 to 63.80): VL0



#27

Carbon Disulfide

Concen: 0.004 ppbv

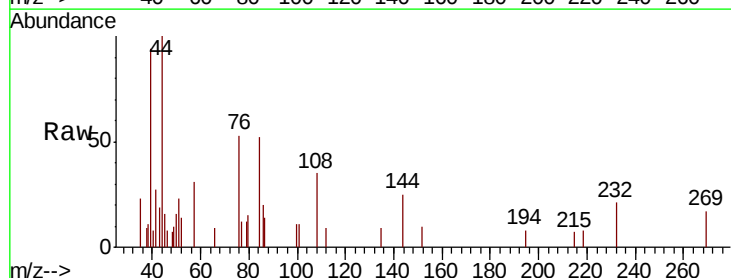
RT: 4.53 min Scan# 543

Delta R.T. -0.03 min

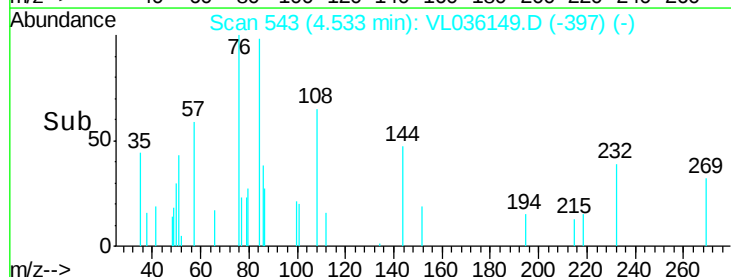
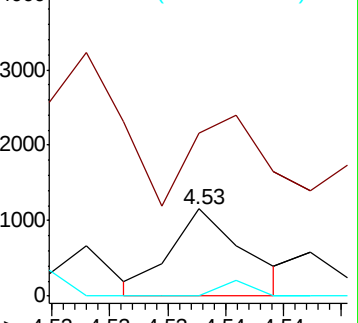
Lab File: VL036149.D

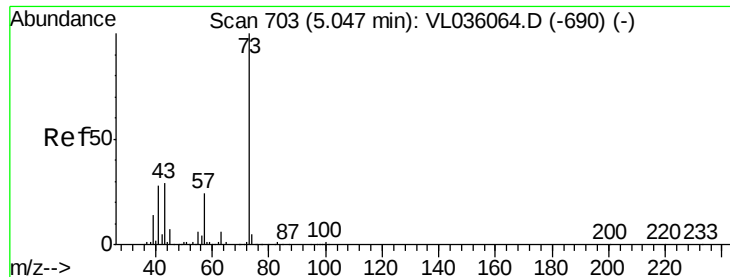
Acq: 11 Dec 2020 4:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 76    | Resp: | 514   |
| Ion      | Ratio | Lower | Upper |
| 76       | 100   |       |       |
| 44       | 0.0   | 17.9  | 26.9# |
| 78       | 0.0   | 7.8   | 11.8# |



Abundance Ion 76.00 (75.70 to 76.70): VL0

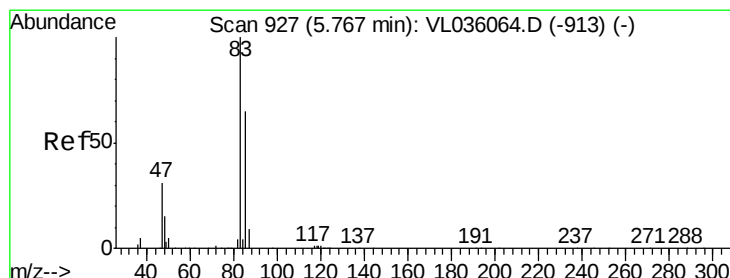
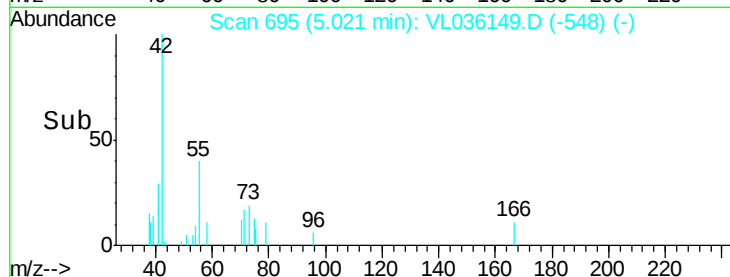
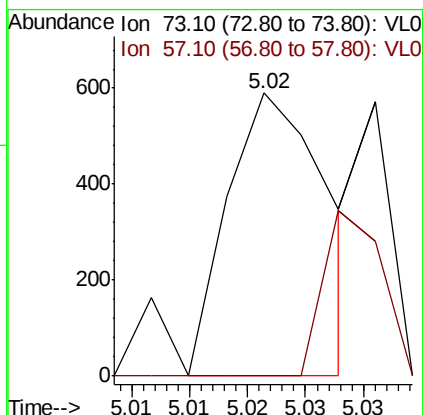
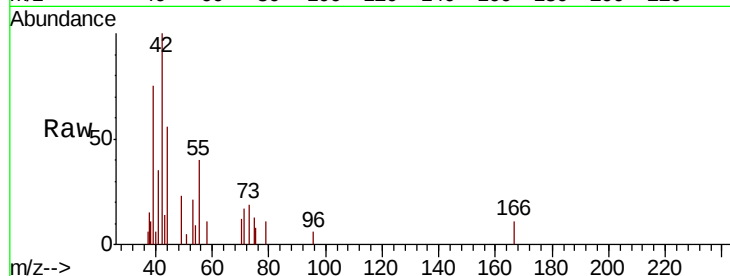




#28

Methyl tert-Butyl Ether  
 Concen: 0.002 ppbv  
 RT: 5.02 min Scan# 695  
 Delta R.T. -0.03 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

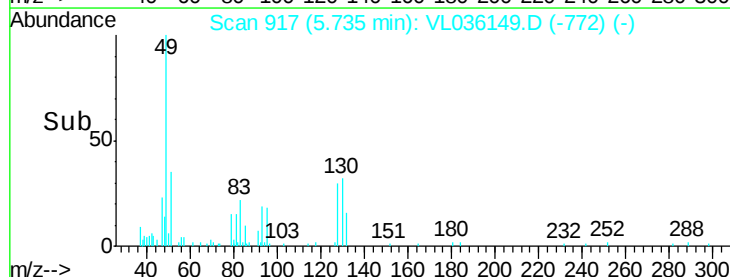
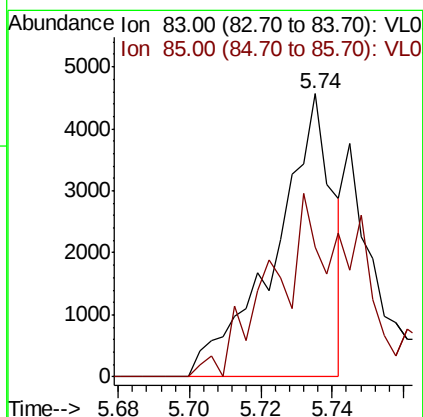
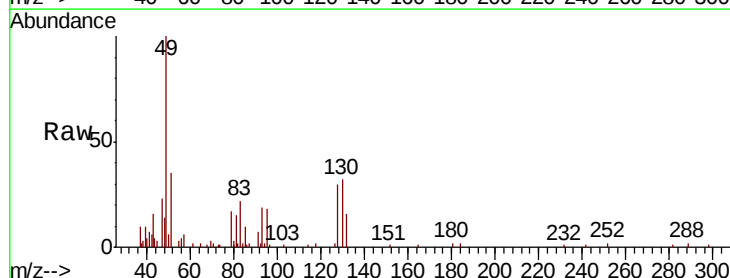
Tot Ion: 73 Resp: 350  
 Ion Ratio Lower Upper  
 73 100  
 57 0.0 19.2 28.8#

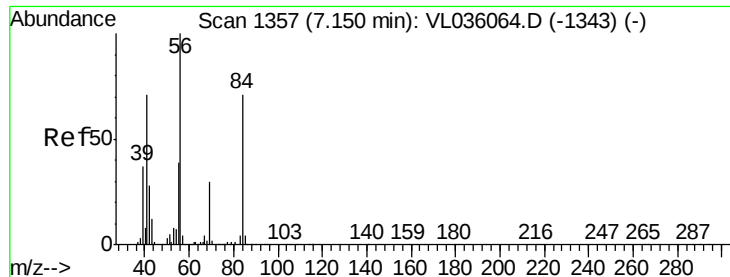


#29

Chloroform  
 Concen: 0.027 ppbv  
 RT: 5.74 min Scan# 917  
 Delta R.T. -0.03 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

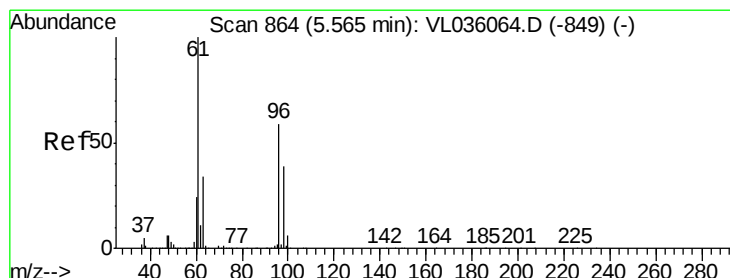
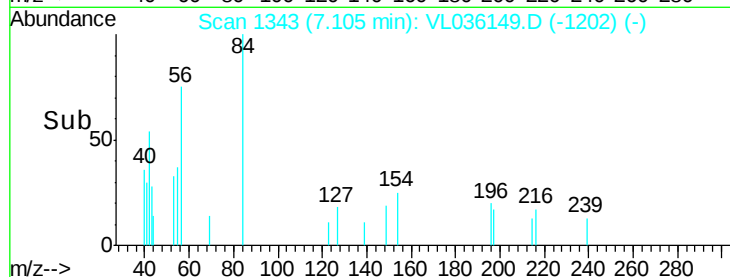
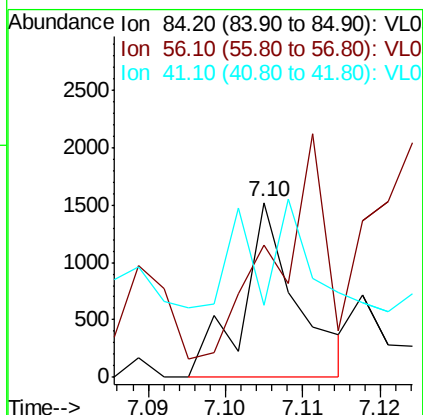
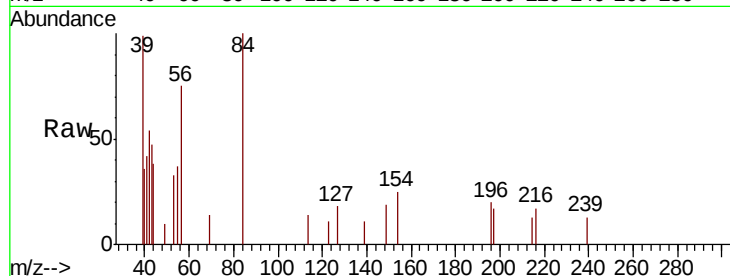
Tgt Ion: 83 Resp: 5063  
 Ion Ratio Lower Upper  
 83 100  
 85 45.8 51.8 77.6#





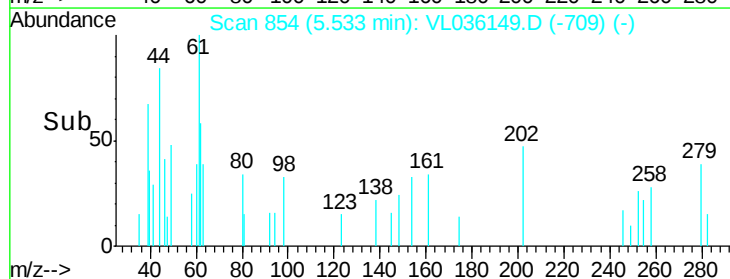
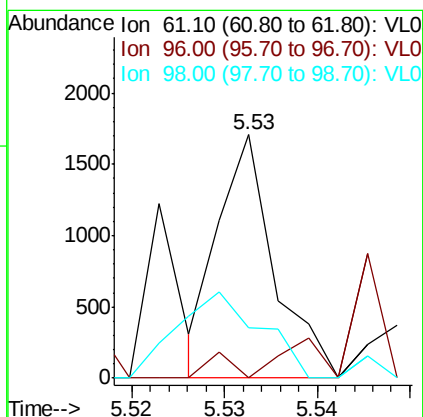
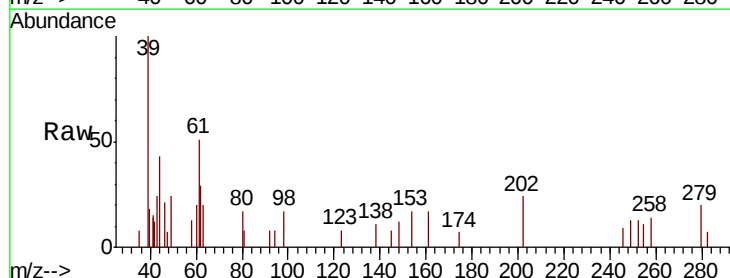
#30  
Cvclohexane  
Concen: 0.007 ppbv  
RT: 7.10 min Scan# 1343  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

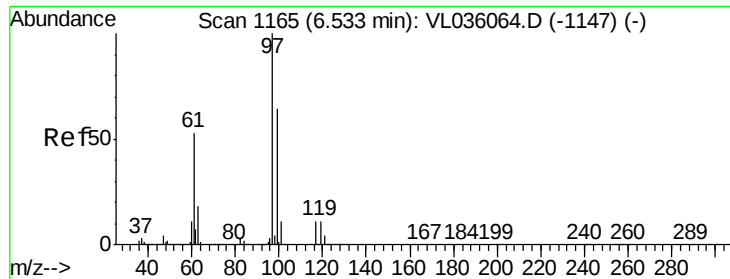
Tot Ion: 84 Resp: 741  
Ion Ratio Lower Upper  
84 100  
56 0.0 128.0 192.0#  
41 207.8 81.3 121.9#



#31  
cis-1,2-Dichloroethene  
Concen: 0.006 ppbv  
RT: 5.53 min Scan# 854  
Delta R.T. -0.03 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

Tgt Ion: 61 Resp: 719  
Ion Ratio Lower Upper  
61 100  
96 0.0 47.3 70.9#  
98 20.7 31.4 47.0#





#32

1,1,1-Trichloroethane

Concen: 0.001 ppbv

RT: 6.27 min Scan# 1082

Delta R.T. -0.27 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

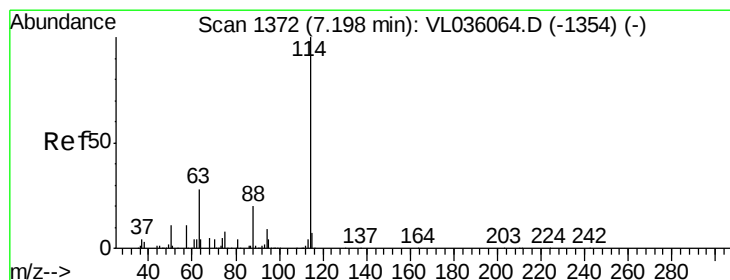
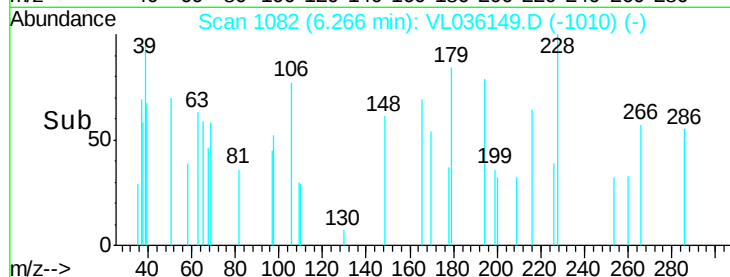
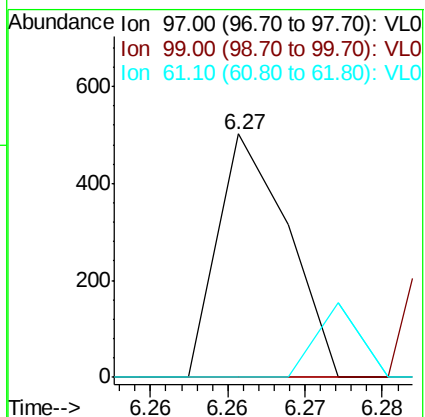
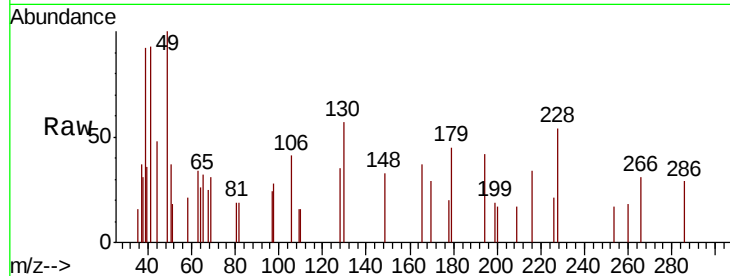
Tot Ion: 97 Resp: 158

Ion Ratio Lower Upper

97 100

99 75.9 52.4 78.6

61 43.7 43.4 65.0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

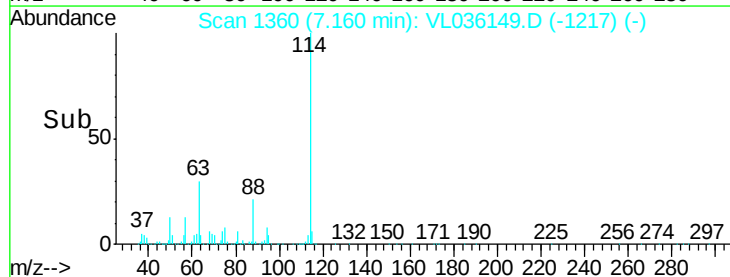
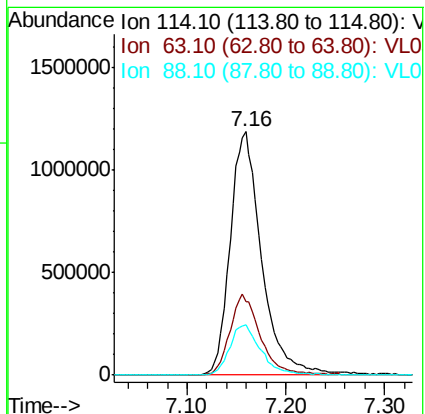
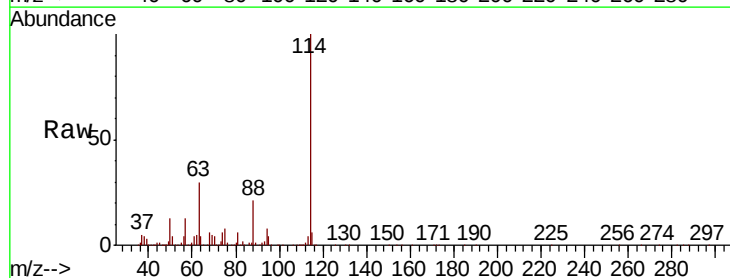
Tgt Ion: 114 Resp: 2629913

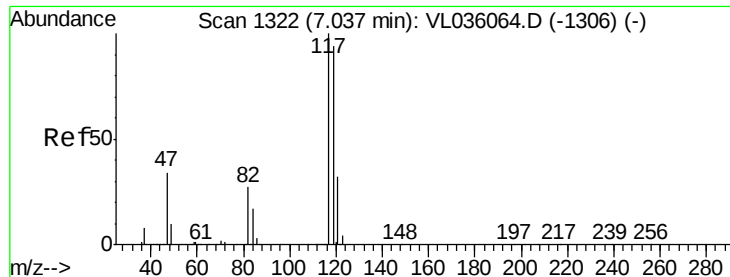
Ion Ratio Lower Upper

114 100

63 32.5 23.6 35.4

88 21.0 15.8 23.6





#35

Carbon Tetrachloride

Concen: 0.004 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

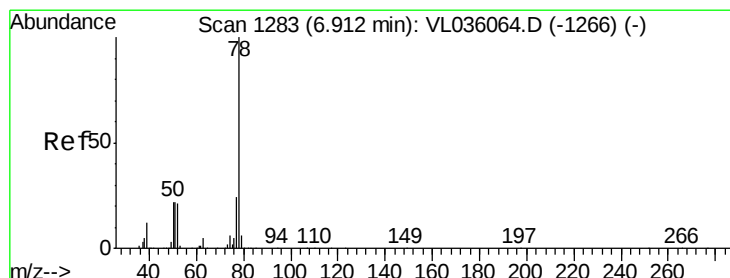
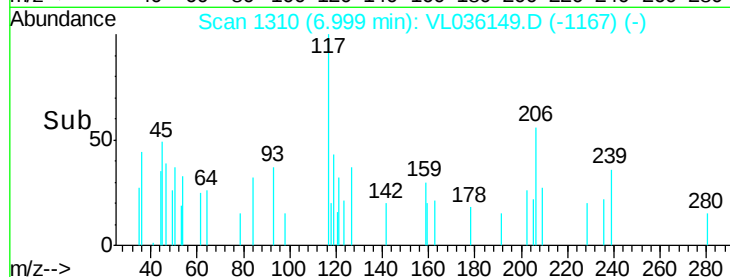
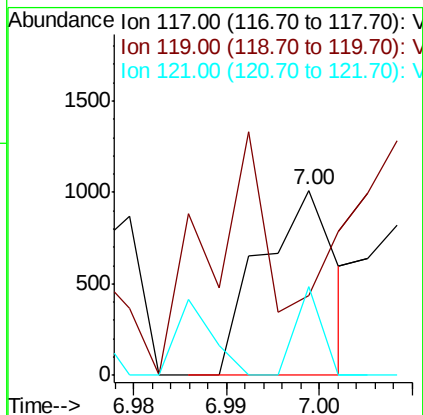
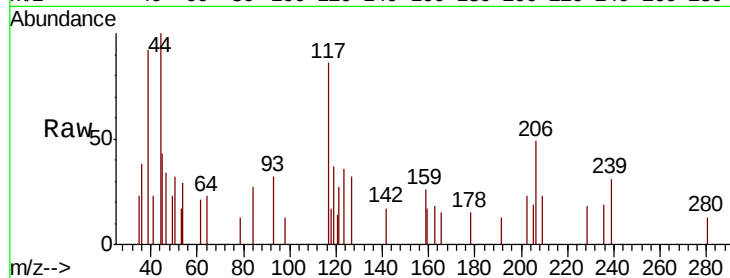
Tot Ion: 117 Resp: 566

Ion Ratio Lower Upper

117 100

119 0.0 75.1 112.7#

121 48.0 25.6 38.4#



#36

Benzene

Concen: 0.023 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

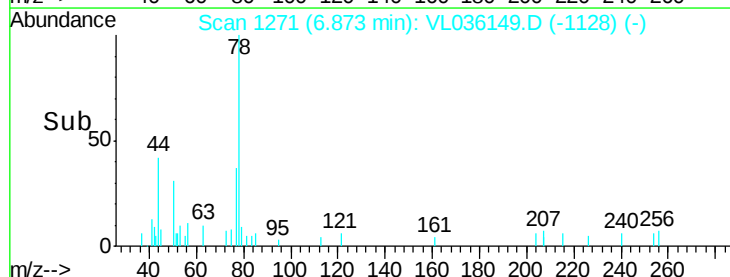
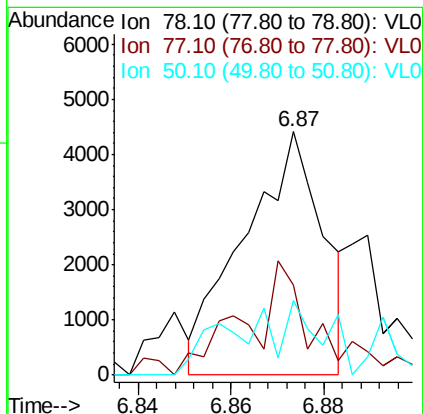
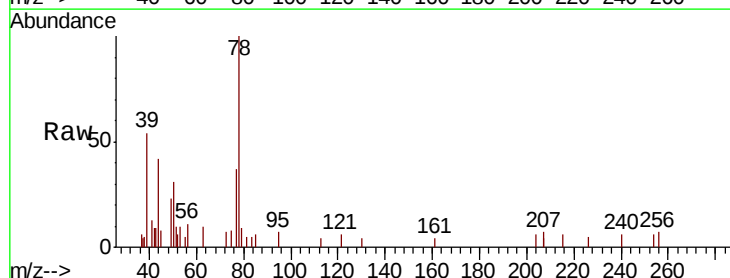
Tgt Ion: 78 Resp: 5232

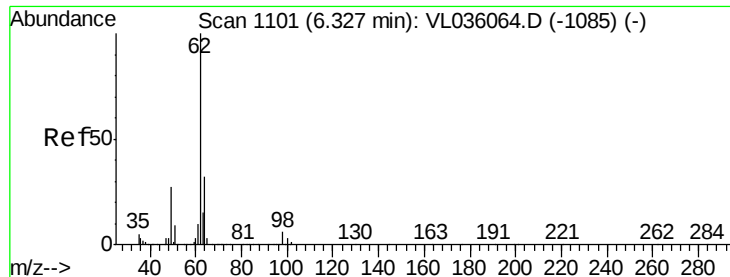
Ion Ratio Lower Upper

78 100

77 36.4 19.4 29.2#

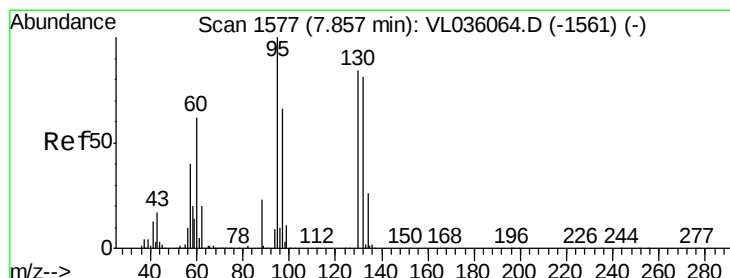
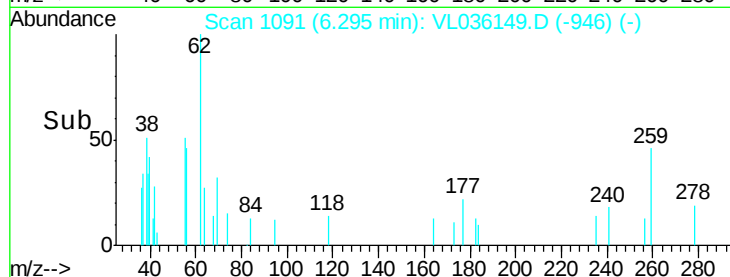
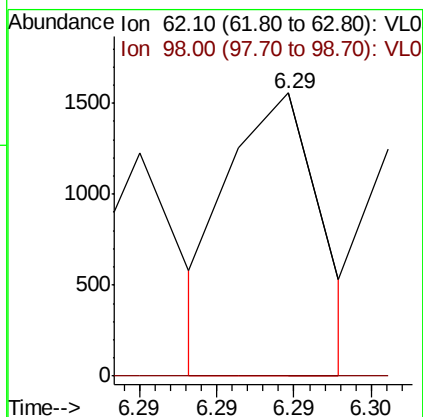
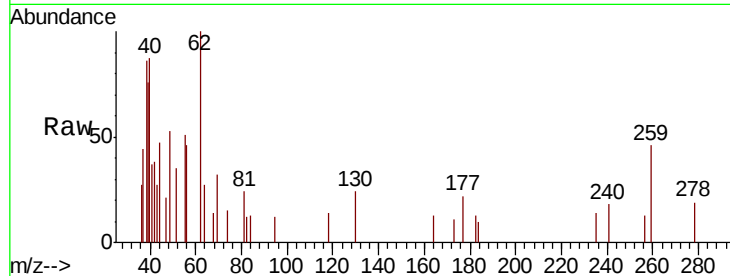
50 28.0 17.8 26.8#





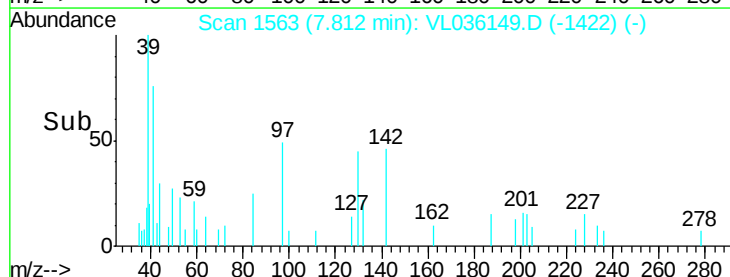
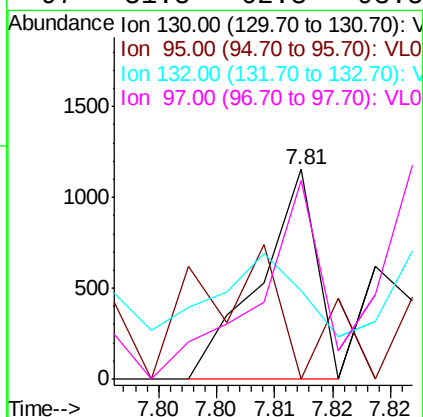
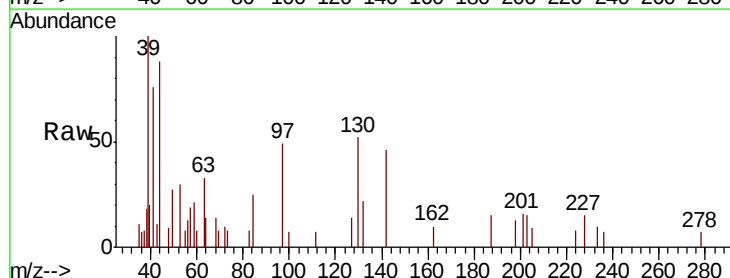
#37  
 1,2-Dichloroethane  
 Concen: 0.005 ppbv  
 RT: 6.29 min Scan# 1091  
 Delta R.T. -0.03 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

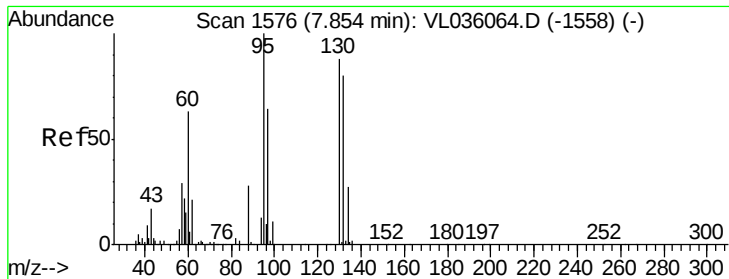
Tot Ion: 62 Resp: 646  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 4.6 7.0#



#38  
 Trichloroethene  
 Concen: 0.005 ppbv  
 RT: 7.81 min Scan# 1563  
 Delta R.T. -0.05 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

Tgt Ion: 130 Resp: 392  
 Ion Ratio Lower Upper  
 130 100  
 95 0.0 95.2 142.8#  
 132 8.2 76.9 115.3#  
 97 81.5 62.3 93.5





#40

1,4-Dioxane

Concen: 0.002 ppbv

RT: 7.83 min Scan# 1567

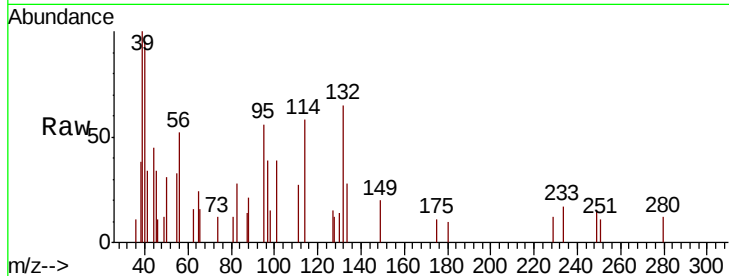
Delta R.T. -0.03 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tot Ion: 88 Resp: 60

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 88  | 100   |       |        |
| 58  | 0.0   | 122.6 | 184.0# |
| 43  | 0.0   | 0.0   | 0.0    |
| 57  | 0.0   | 0.0   | 0.0    |

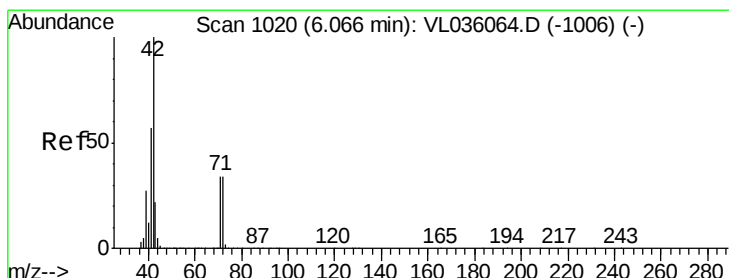
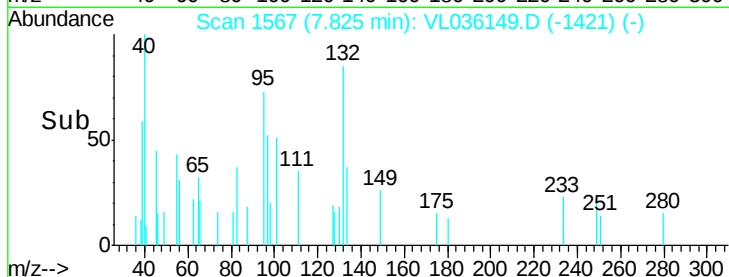
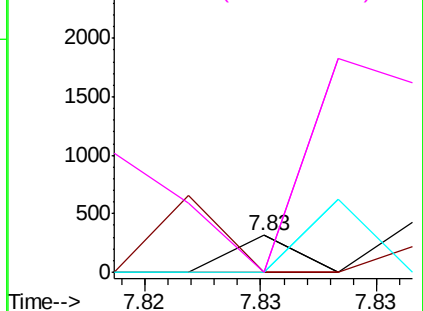


Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.009 ppbv

RT: 6.03 min Scan# 1009

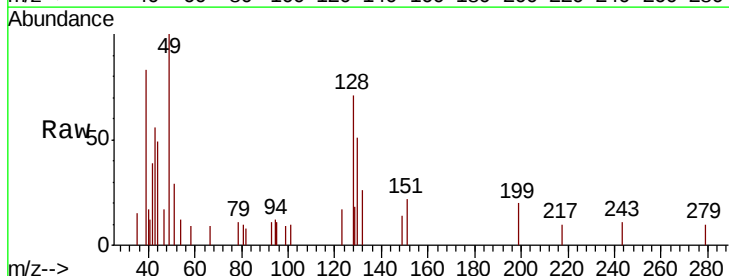
Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tgt Ion: 42 Resp: 895

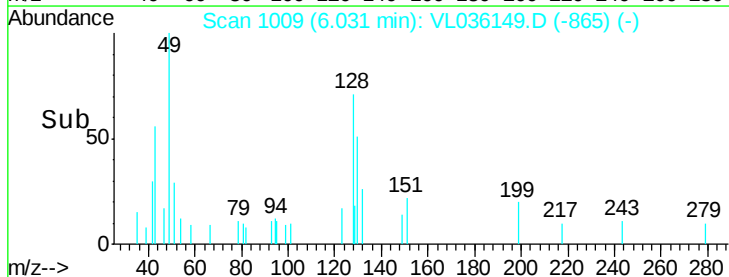
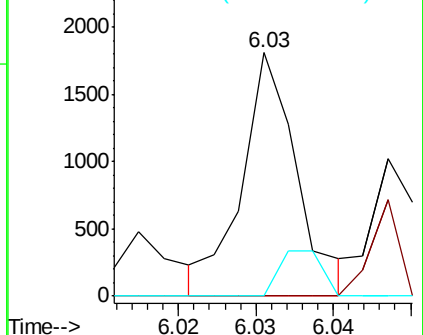
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 0.0   | 28.3  | 42.5# |
| 71  | 0.0   | 27.3  | 40.9# |

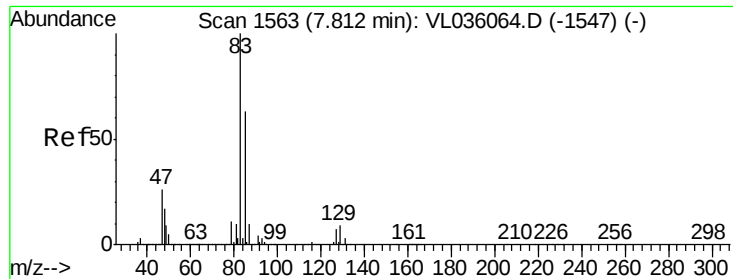


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.003 ppbv

RT: 7.77 min Scan# 1549

Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

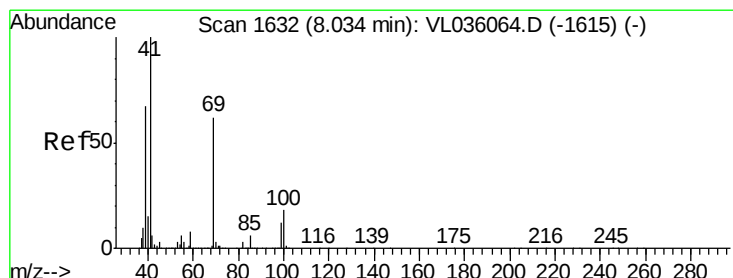
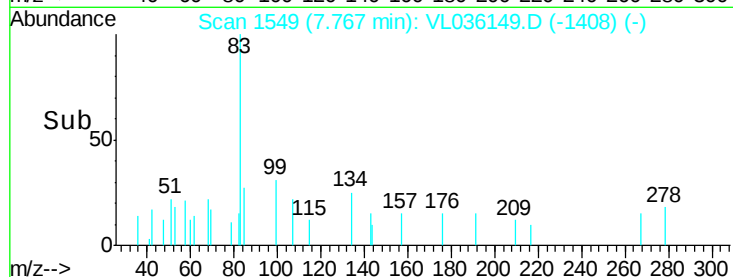
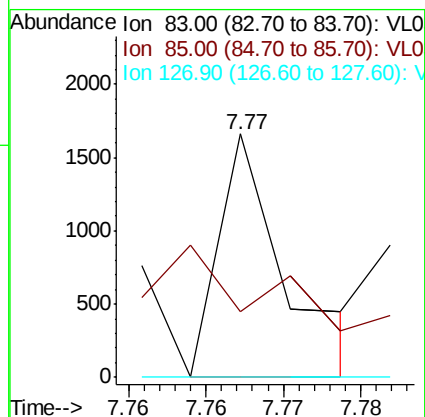
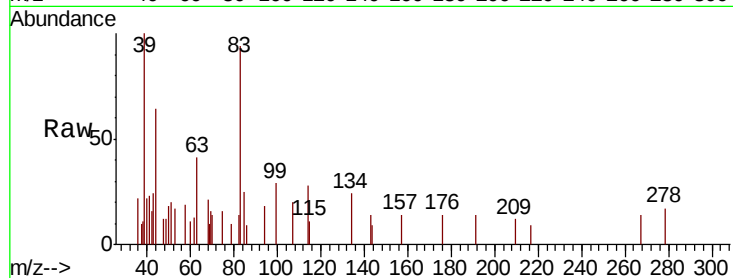
Tot Ion: 83 Resp: 496

Ion Ratio Lower Upper

83 100

85 7.9 50.2 75.2#

127 0.0 5.5 8.3#



#43

Methyl Methacrylate

Concen: 0.002 ppbv

RT: 7.99 min Scan# 1618

Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

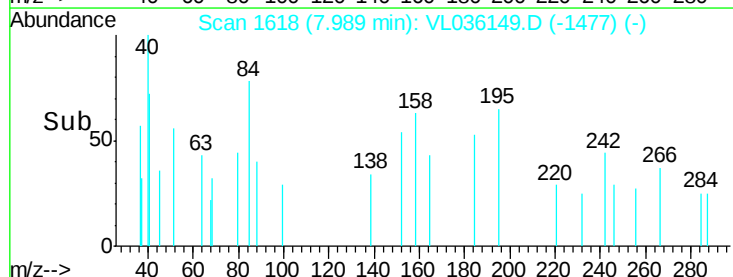
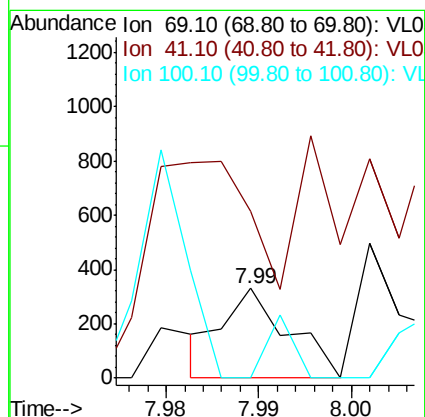
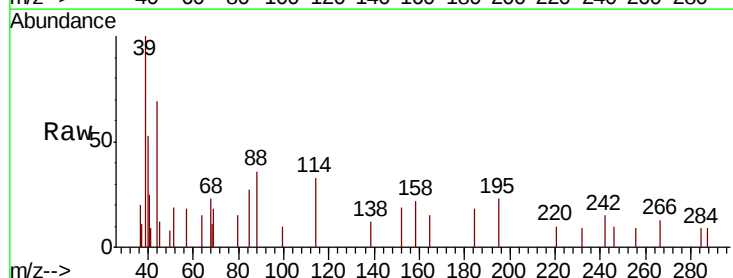
Tgt Ion: 69 Resp: 161

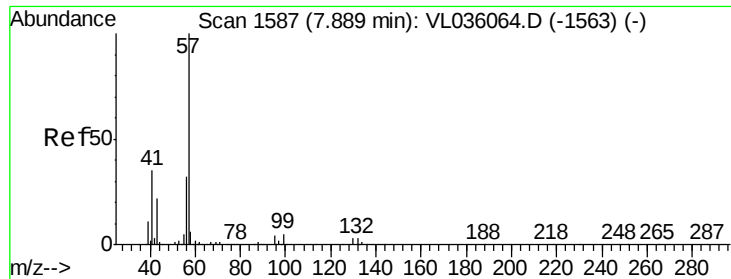
Ion Ratio Lower Upper

69 100

41 0.0 133.0 199.6#

100 0.0 25.4 38.0#





#44

2,2,4-Trimethylpentane

Concen: 0.004 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

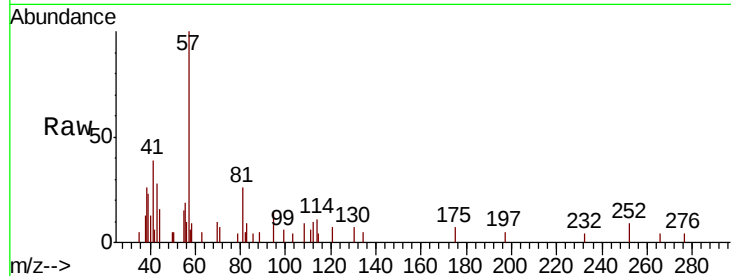
Tot Ion: 57 Resp: 1455

Ion Ratio Lower Upper

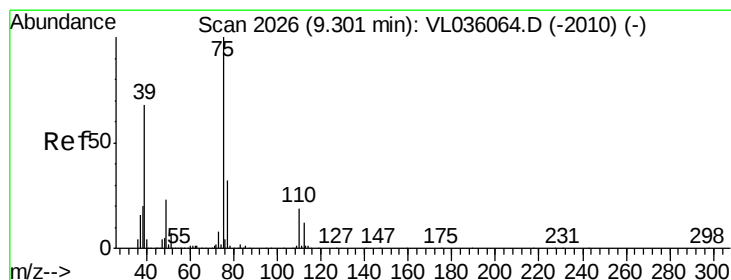
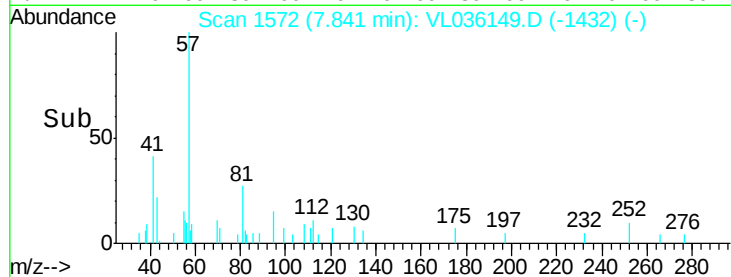
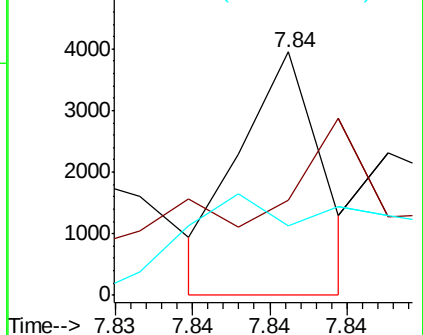
57 100

41 387.1 28.9 43.3#

56 185.1 25.3 37.9#



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: 0.002 ppbv

RT: 9.22 min Scan# 2002

Delta R.T. -0.08 min

Lab File: VL036149.D

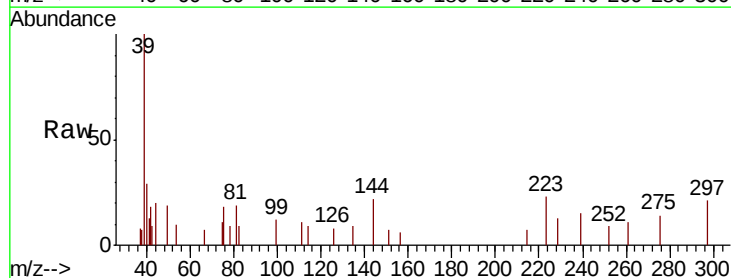
Acq: 11 Dec 2020 4:47

Tgt Ion: 75 Resp: 240

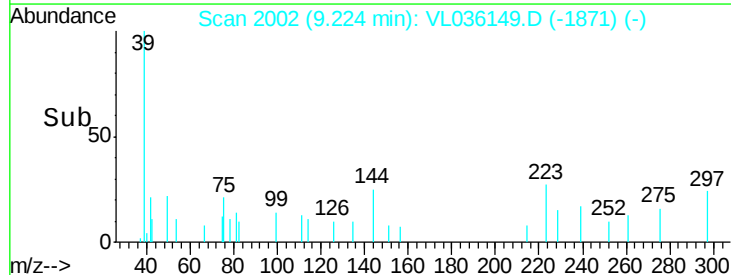
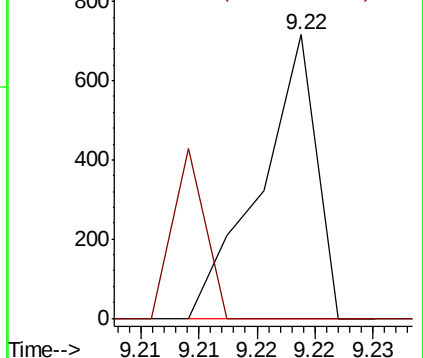
Ion Ratio Lower Upper

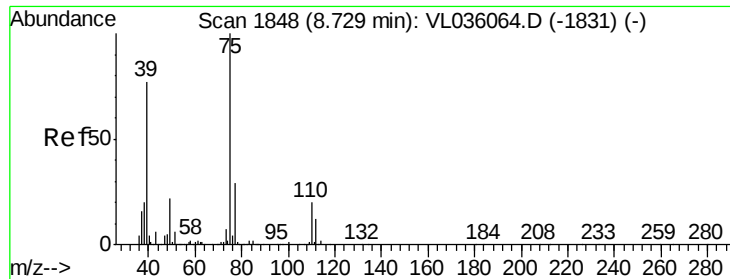
75 100

77 0.0 26.0 39.0#



Abundance Ion 75.10 (74.80 to 75.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0





#46

cis-1,3-Dichloropropene

Concen: 0.000 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

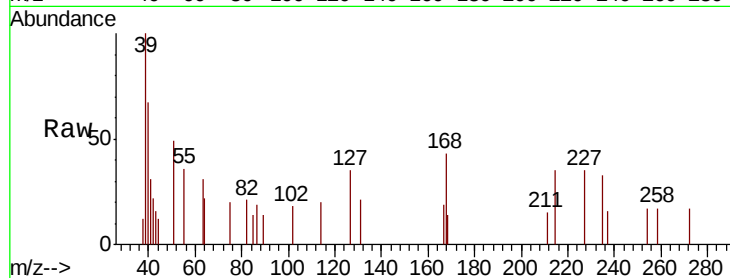
Tot Ion: 75 Resp: 51

Ion Ratio Lower Upper

75 100

39 0.0 61.6 92.4#

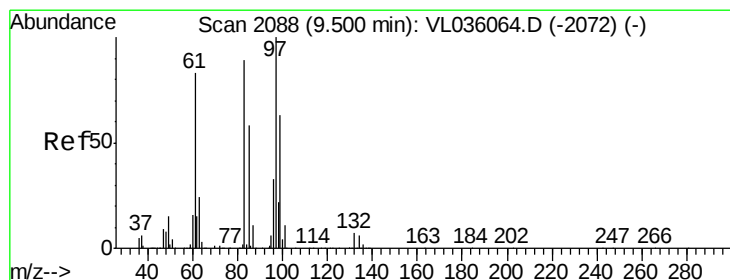
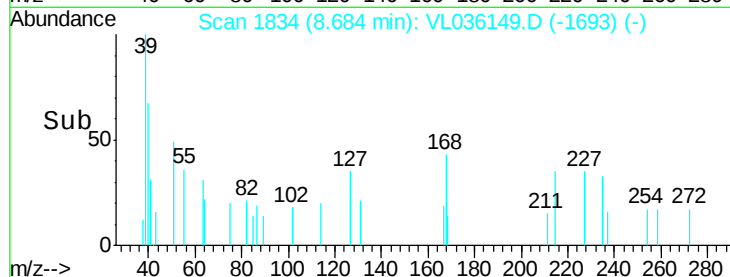
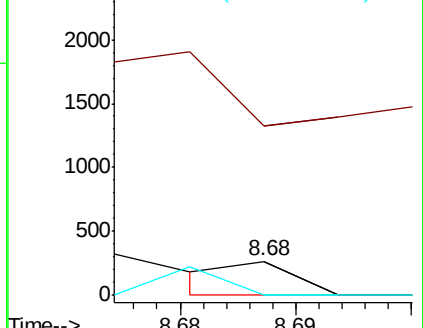
77 0.0 23.0 34.6#



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



#47

1,1,2-Trichloroethane

Concen: 0.004 ppbv

RT: 9.45 min Scan# 2073

Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tgt Ion: 97 Resp: 357

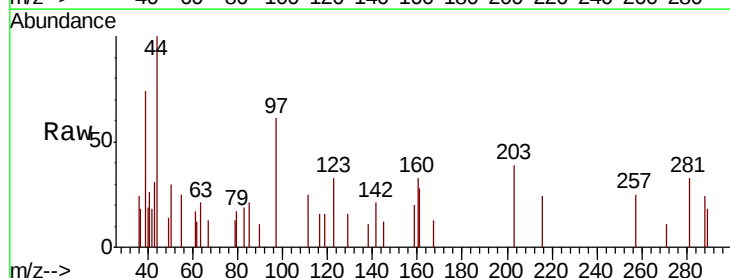
Ion Ratio Lower Upper

97 100

83 31.7 71.4 107.2#

85 34.5 46.6 70.0#

99 0.0 50.7 76.1#

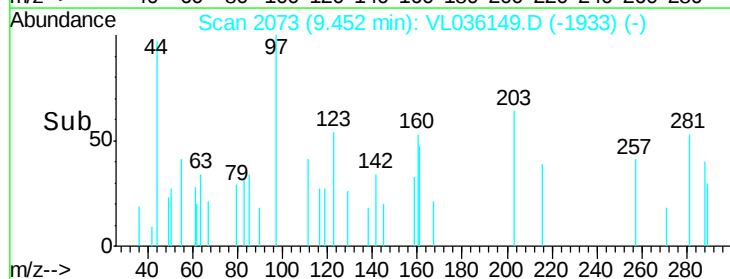
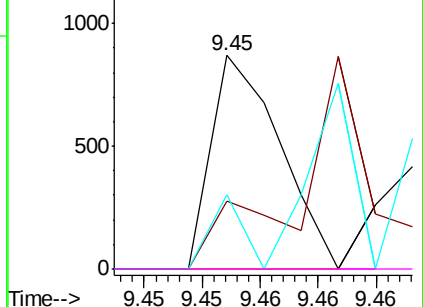


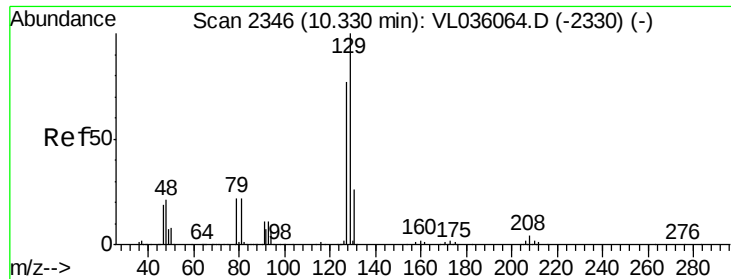
Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.003 ppbv

RT: 10.30 min Scan# 2336

Delta R.T. -0.03 min

Lab File: VL036149.D

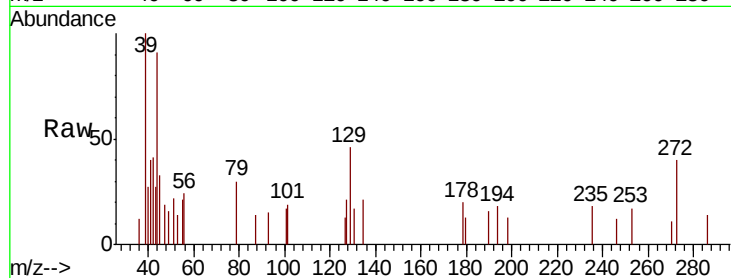
Acq: 11 Dec 2020 4:47

Tot Ion:129 Resp: 341

Ion Ratio Lower Upper

129 100

127 77.1 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.30

800

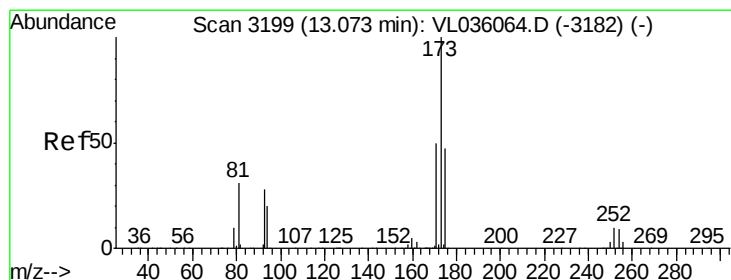
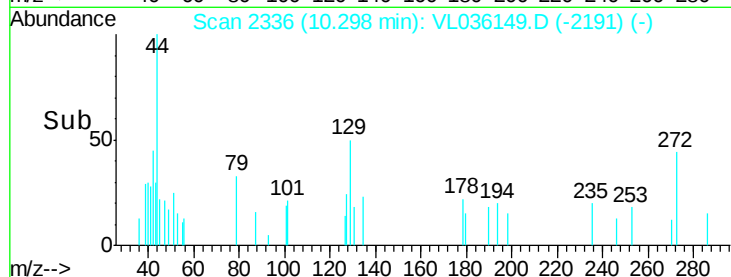
600

400

200

0

Time-->



#49

Bromoform

Concen: 0.001 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

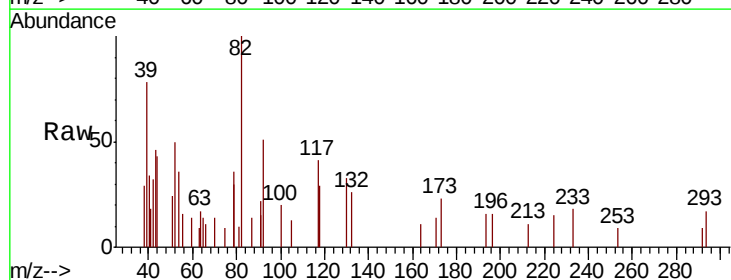
Tgt Ion:173 Resp: 76

Ion Ratio Lower Upper

173 100

175 0.0 39.8 59.6#

171 102.6 42.5 63.7#



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

500

400

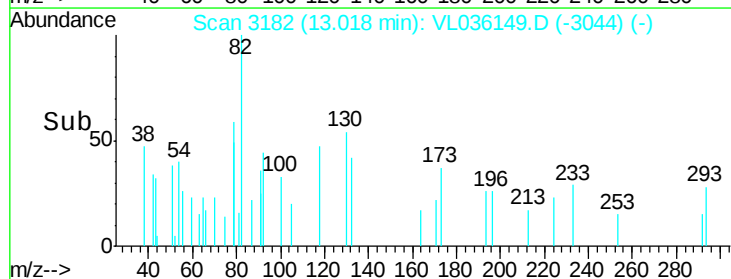
300

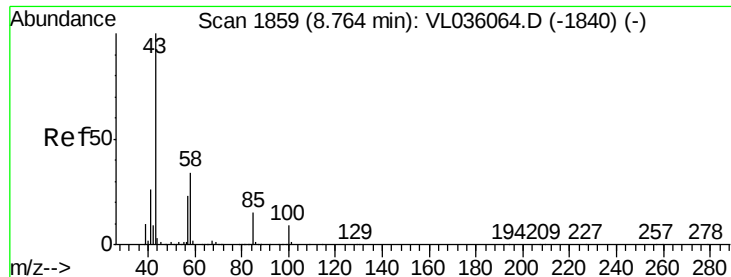
200

100

0

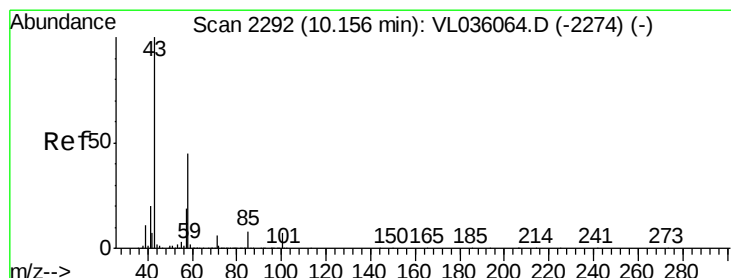
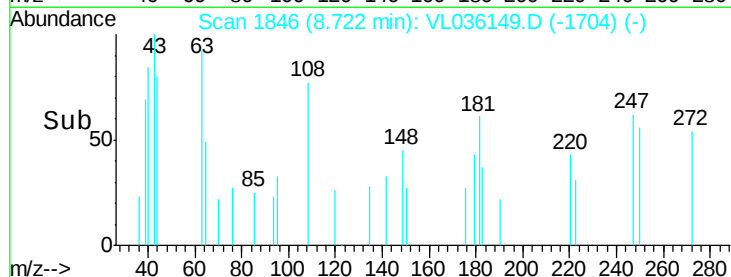
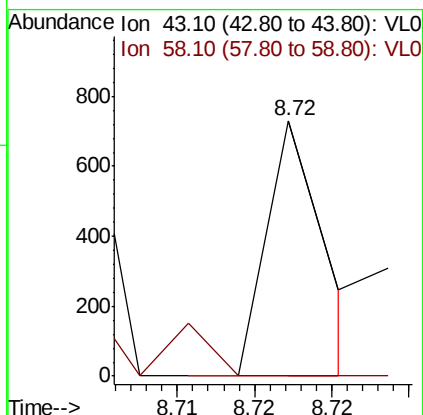
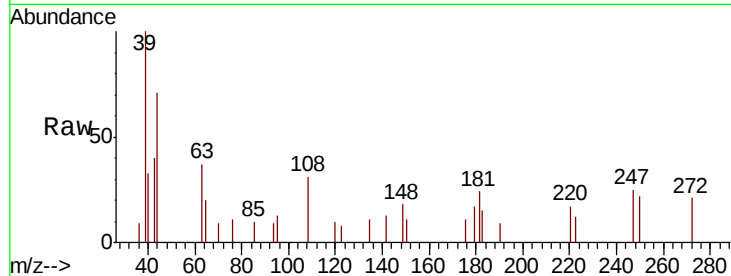
Time-->





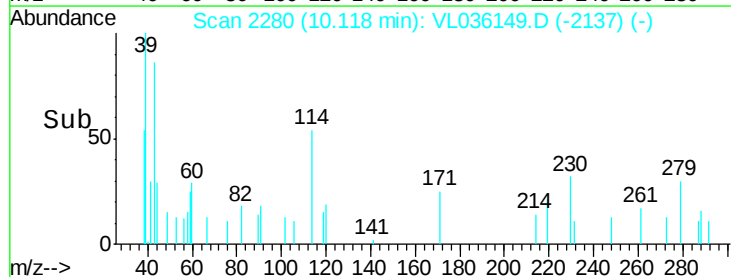
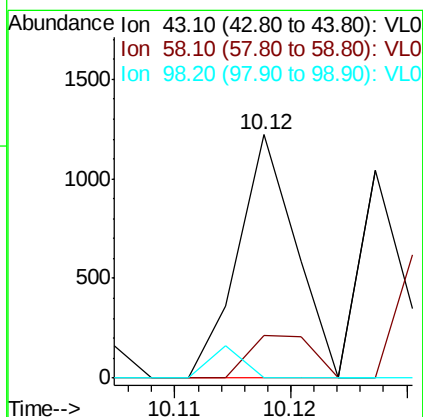
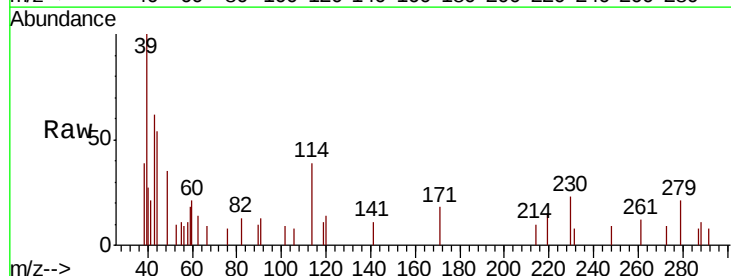
#50  
4-Methyl-2-Pentanone  
Concen: 0.001 ppbv  
RT: 8.72 min Scan# 1846  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

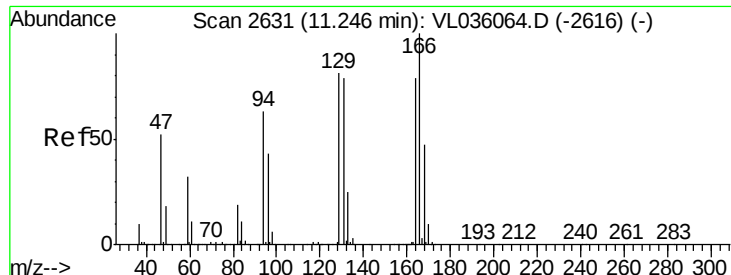
Tot Ion: 43 Resp: 189  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.4 41.2#



#51  
2-Hexanone  
Concen: 0.002 ppbv  
RT: 10.12 min Scan# 2280  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

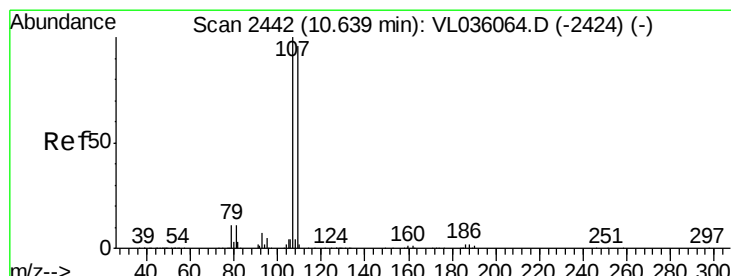
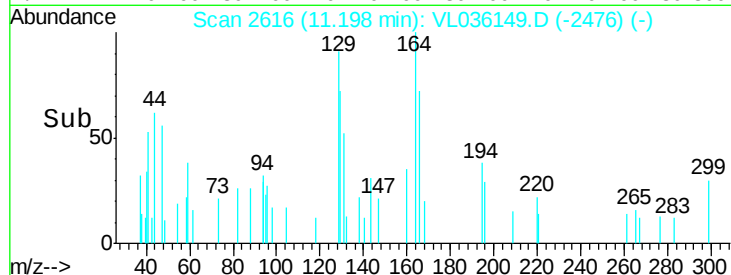
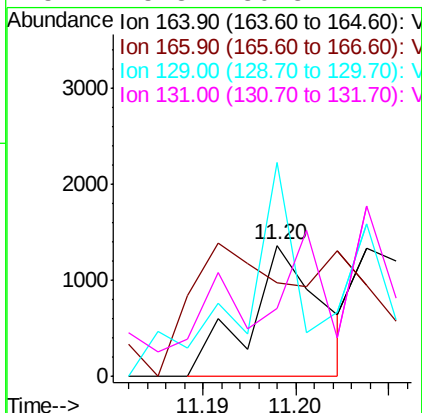
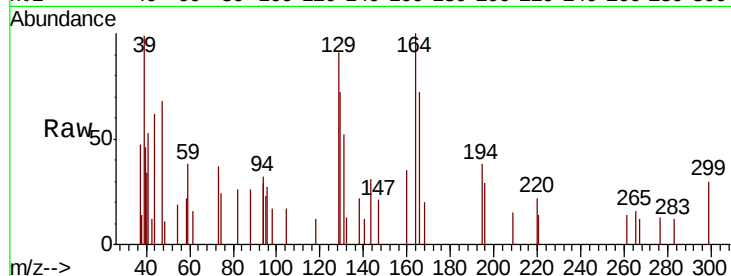
Tgt Ion: 43 Resp: 420  
Ion Ratio Lower Upper  
43 100  
58 0.0 38.7 58.1#  
98 7.6 0.1 0.1#





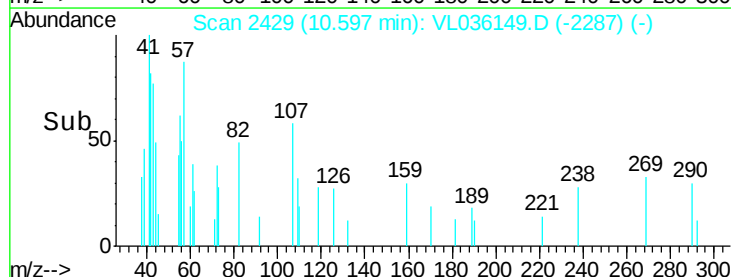
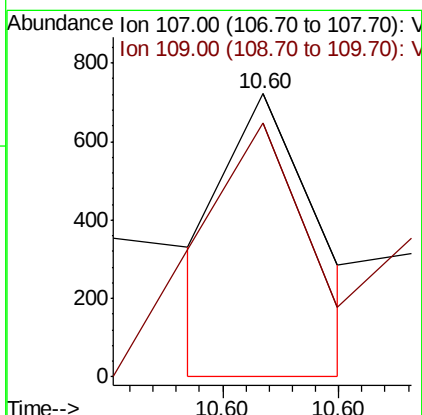
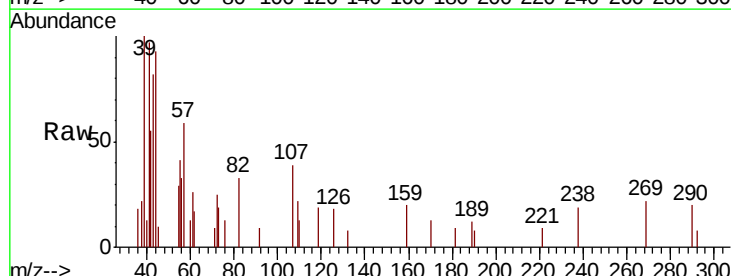
#52  
Tetrachloroethene  
Concen: 0.009 ppbv  
RT: 11.20 min Scan# 2616  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

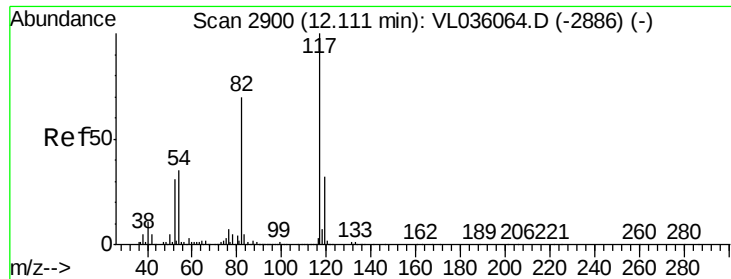
Tot Ion:164 Resp: 731  
Ion Ratio Lower Upper  
164 100  
166 10.0 101.9 152.9#  
129 141.4 82.1 123.1#  
131 23.3 80.8 121.2#



#54  
1,2-Dibromoethane  
Concen: 0.002 ppbv  
RT: 10.60 min Scan# 2429  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

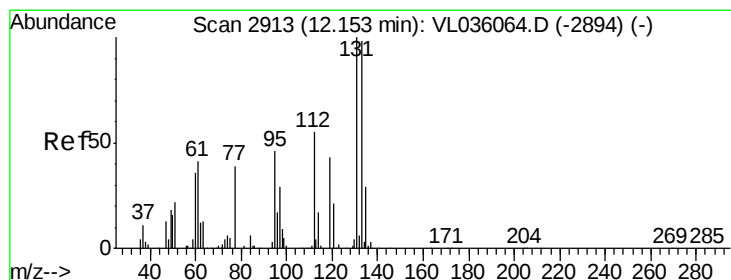
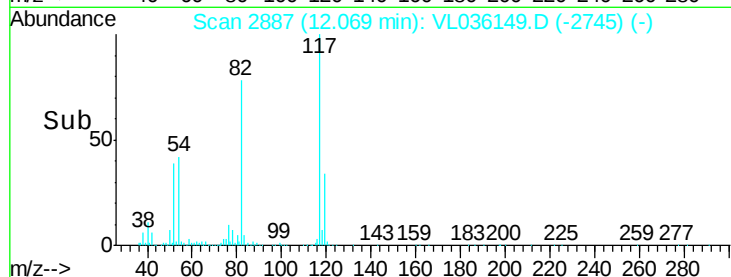
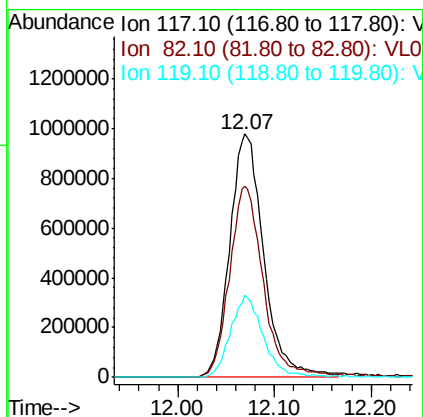
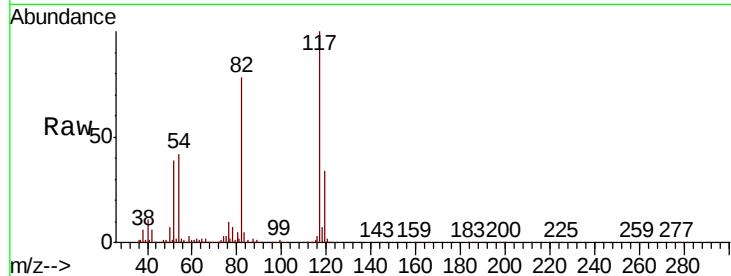
Tgt Ion:107 Resp: 194  
Ion Ratio Lower Upper  
107 100  
109 107.3 76.6 115.0





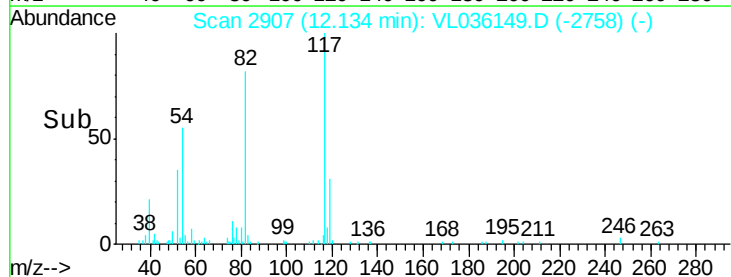
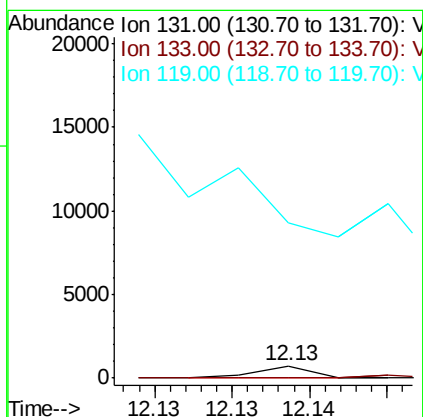
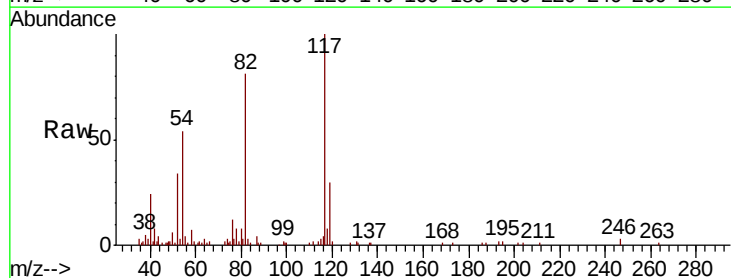
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2887  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

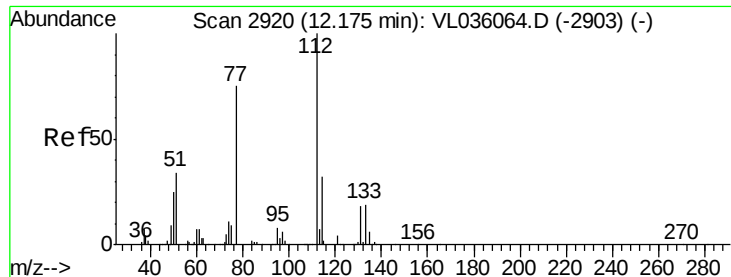
Tot Ion:117 Resp: 2386693  
Ion Ratio Lower Upper  
117 100  
82 78.8 0.0 0.0#  
119 32.5 0.0 0.0#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.002 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.02 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

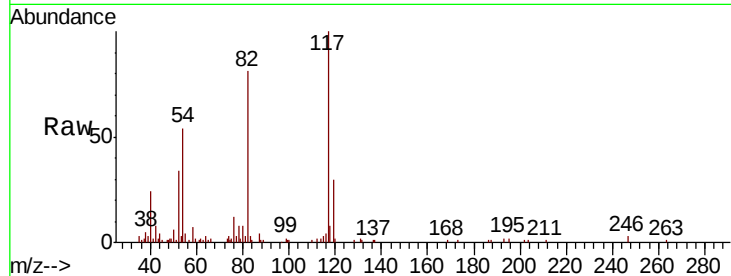
Tgt Ion:131 Resp: 179  
Ion Ratio Lower Upper  
131 100  
133 0.0 77.7 116.5#  
119 441033.5 51.6 77.4#



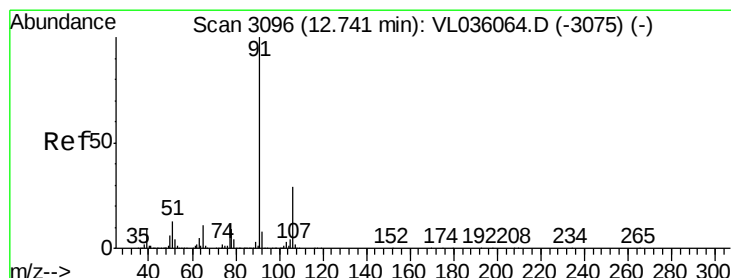
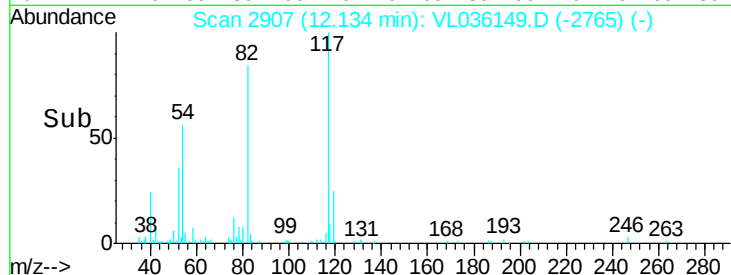
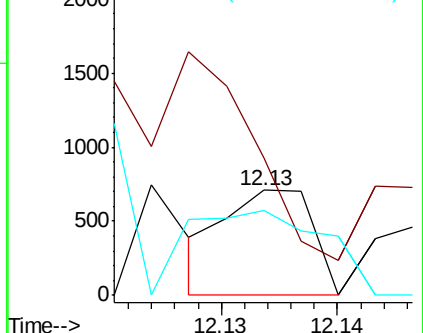


#57  
Chlorobenzene  
Concen: 0.002 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

Tot Ion: 112 Resp: 372  
Ion Ratio Lower Upper  
112 100  
77 98.2 60.5 90.7#  
114 23.9 29.2 35.6#

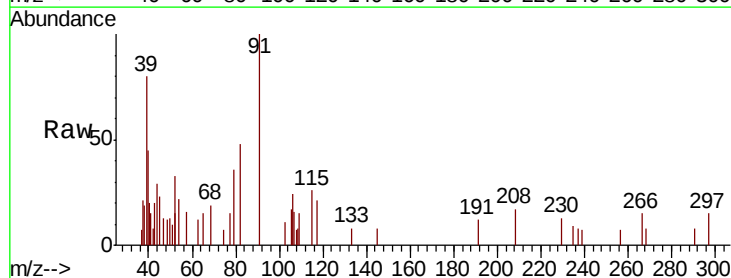


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

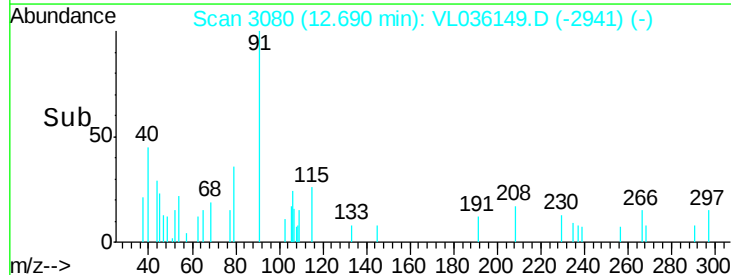
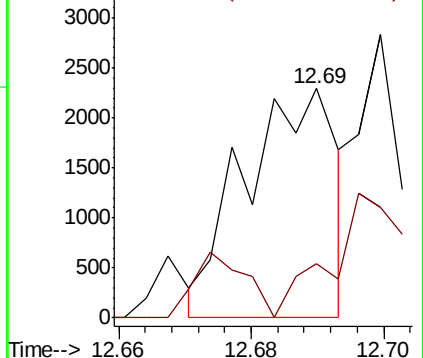


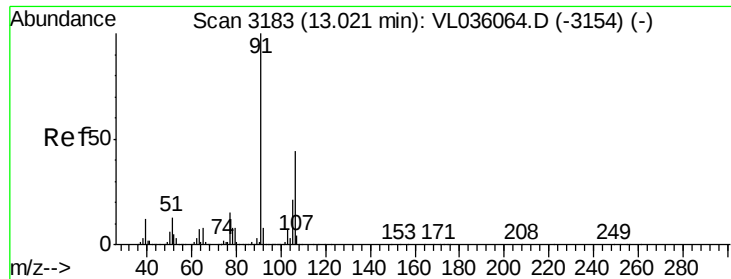
#58  
Ethyl Benzene  
Concen: 0.007 ppbv  
RT: 12.69 min Scan# 3080  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

Tgt Ion: 91 Resp: 2203  
Ion Ratio Lower Upper  
91 100  
106 30.6 23.0 34.4



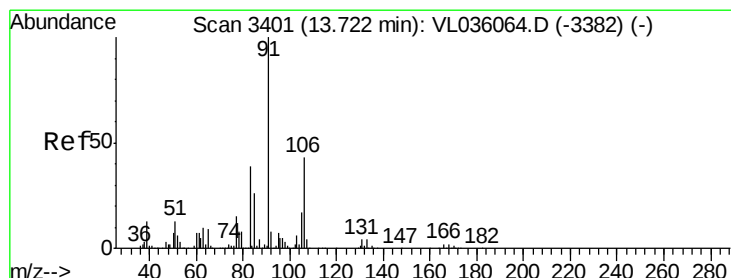
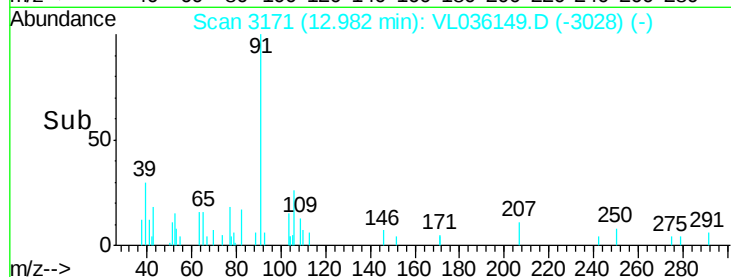
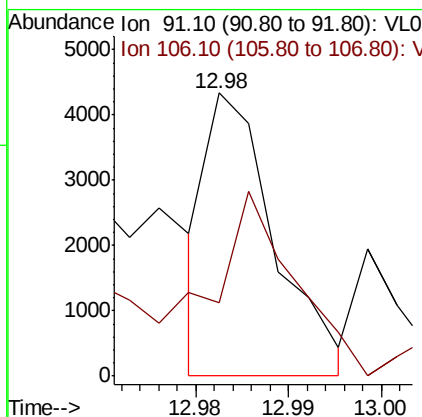
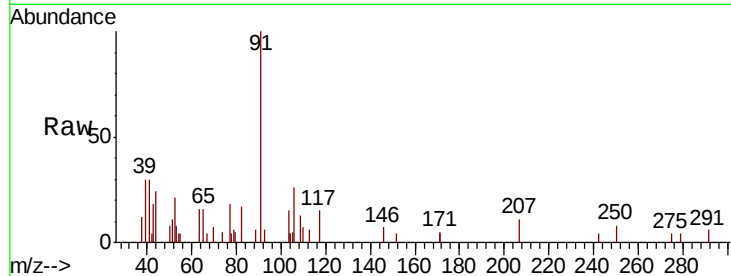
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





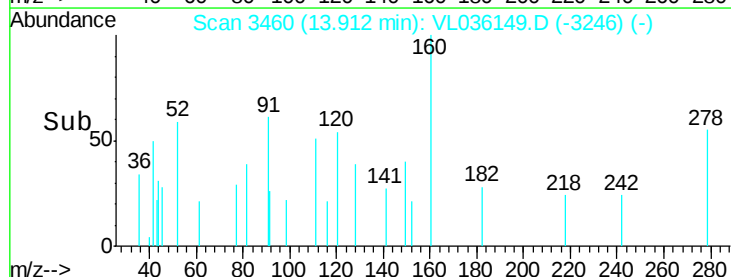
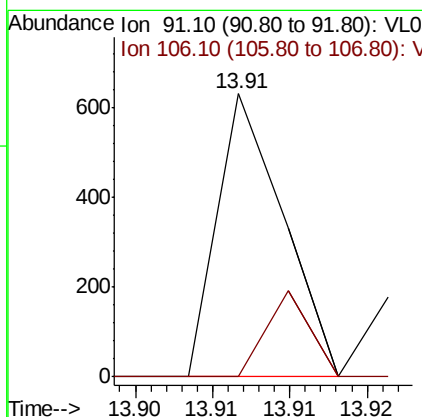
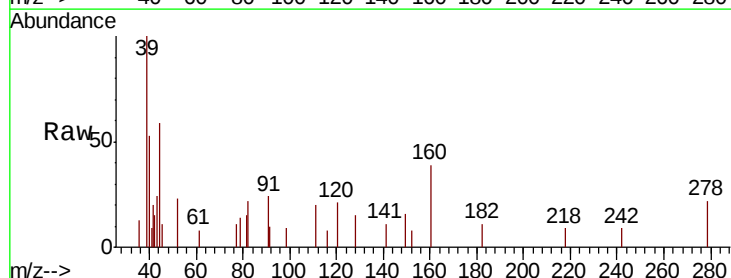
#59  
m/p-Xylene  
Concen: 0.008 ppbv  
RT: 12.98 min Scan# 3171  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

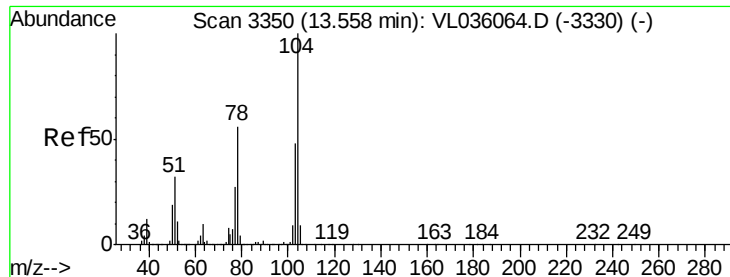
Tot Ion: 91 Resp: 2209  
Ion Ratio Lower Upper  
91 100  
106 269.2 33.6 50.4#



#60  
o-Xylene  
Concen: 0.001 ppbv  
RT: 13.91 min Scan# 3460  
Delta R.T. 0.19 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

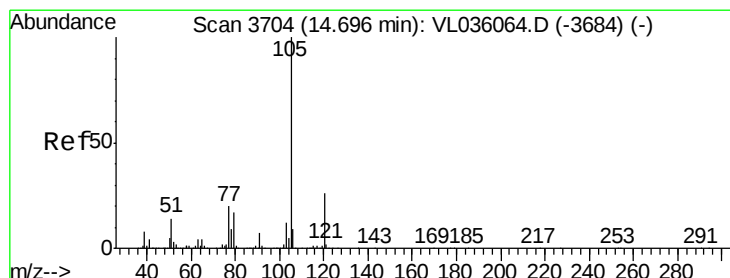
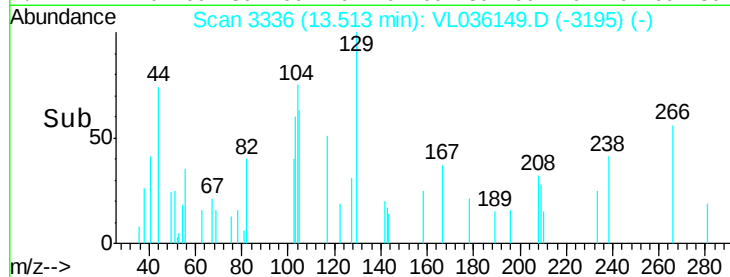
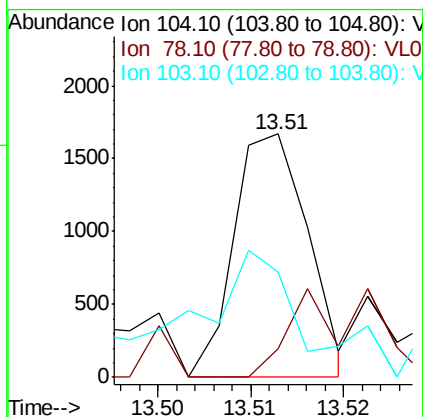
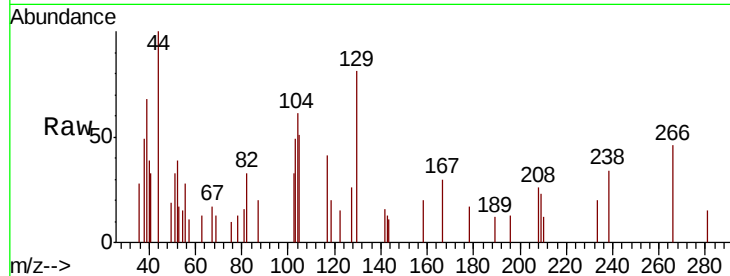
Tgt Ion: 91 Resp: 186  
Ion Ratio Lower Upper  
91 100  
106 61.8 21.6 64.6





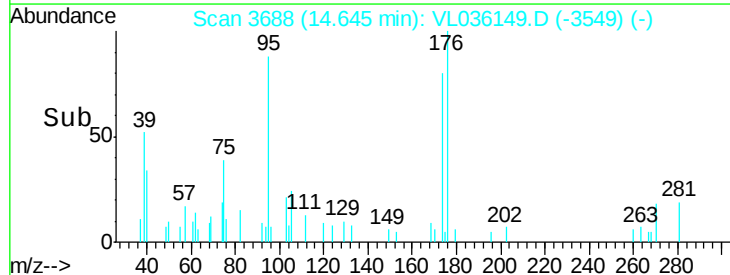
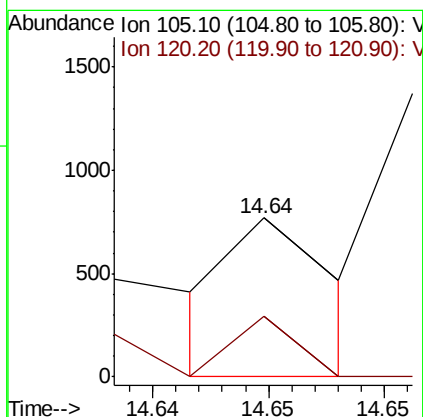
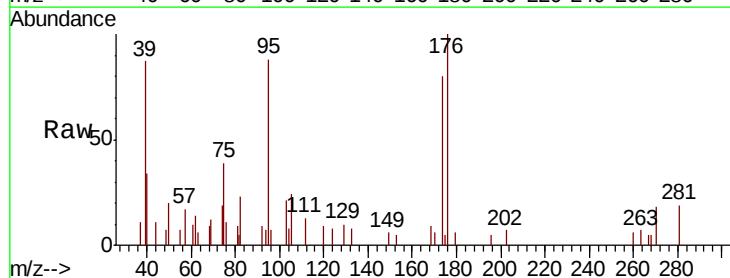
#61  
Stvrene  
Concen: 0.006 ppbv  
RT: 13.51 min Scan# 3336  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

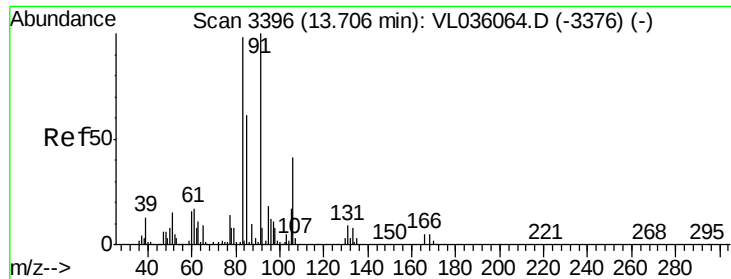
Tot Ion:104 Resp: 930  
Ion Ratio Lower Upper  
104 100  
78 0.0 45.8 68.8#  
103 105.1 38.6 57.8#



#62  
Isopropylbenzene  
Concen: 0.001 ppbv  
RT: 14.64 min Scan# 3688  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

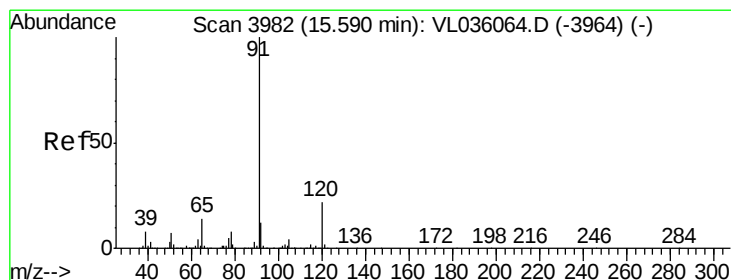
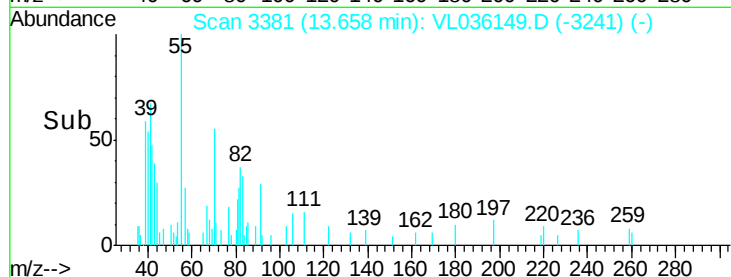
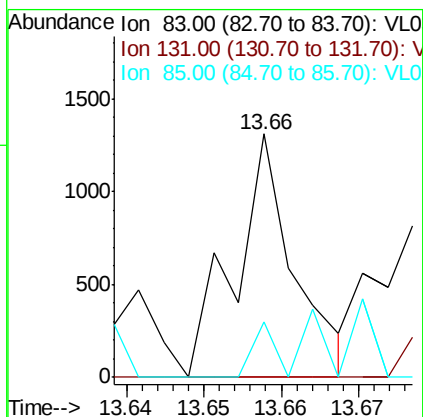
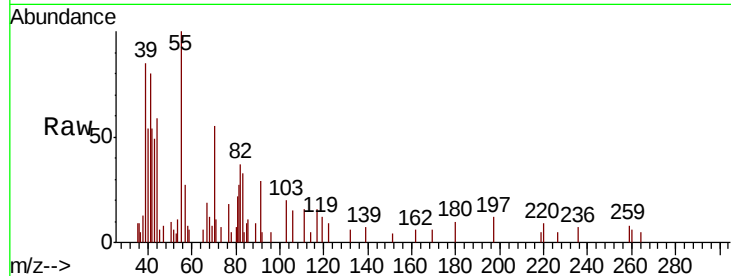
Tgt Ion:105 Resp: 238  
Ion Ratio Lower Upper  
105 100  
120 0.0 20.1 30.1#





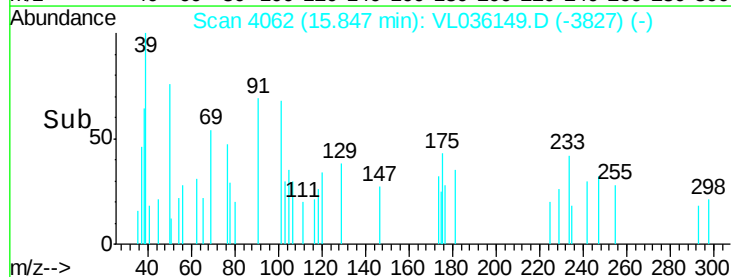
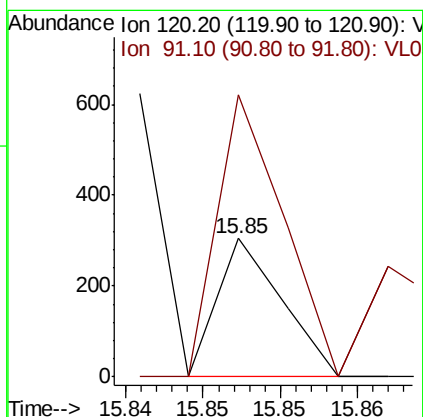
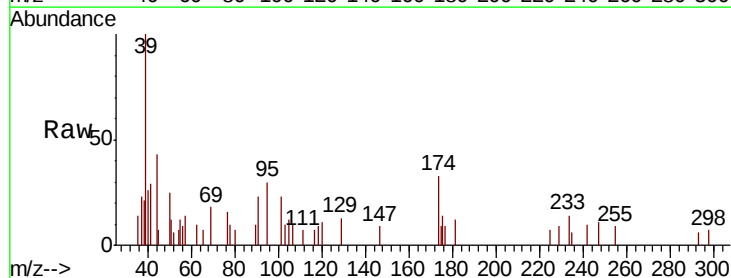
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.004 ppbv  
 RT: 13.66 min Scan# 3381  
 Delta R.T. -0.05 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

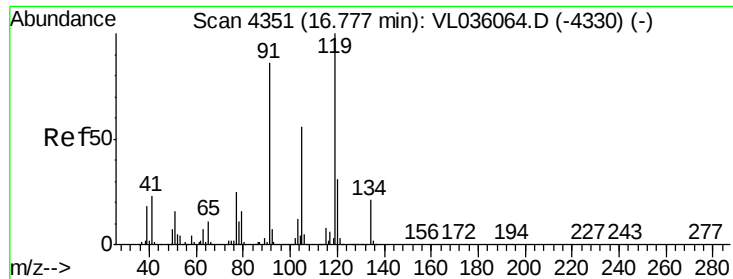
Tot Ion: 83 Resp: 694  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 4.6 13.8#  
 85 0.0 32.5 97.5#



#64  
 n-propylbenzene  
 Concen: 0.001 ppbv  
 RT: 15.85 min Scan# 4062  
 Delta R.T. 0.26 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

Tgt Ion:120 Resp: 88  
 Ion Ratio Lower Upper  
 120 100  
 91 546.6 388.9 583.3





#65

tert-Butylbenzene

Concen: 0.000 ppbv

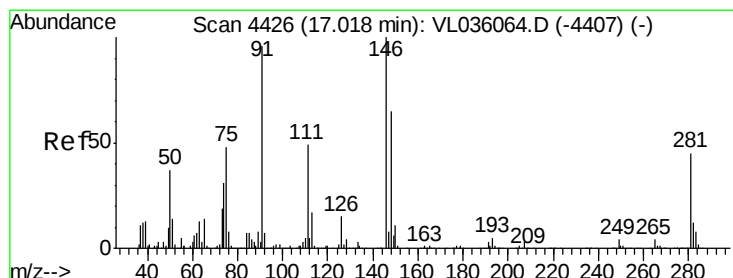
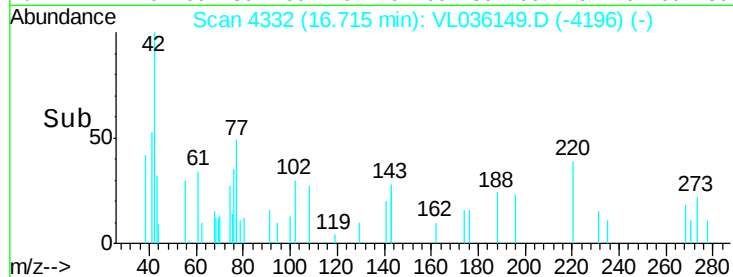
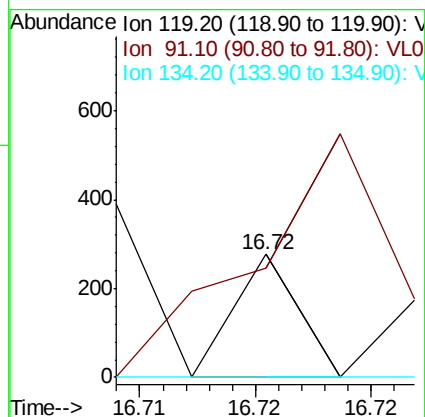
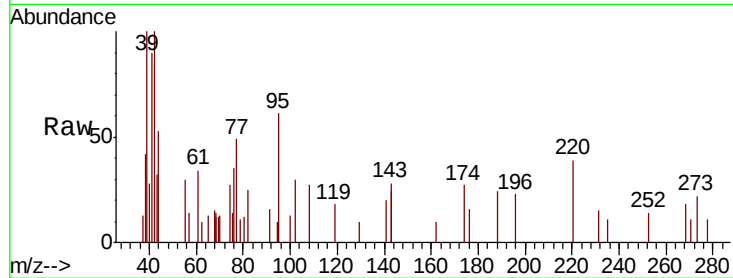
RT: 16.72 min Scan# 4332

Delta R.T. -0.06 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 119   | Resp: | 53     |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 91       | 0.0   | 70.2  | 105.2# |
| 134      | 0.0   | 15.8  | 23.6#  |



#66

Benzyl Chloride

Concen: 0.002 ppbv

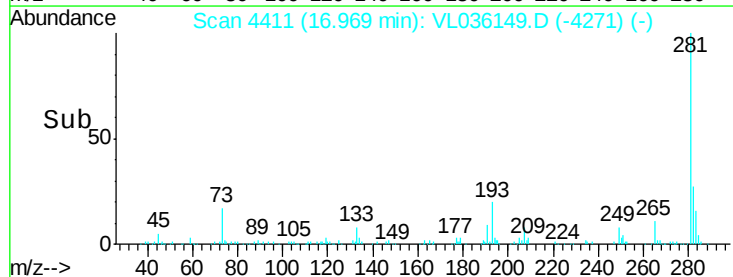
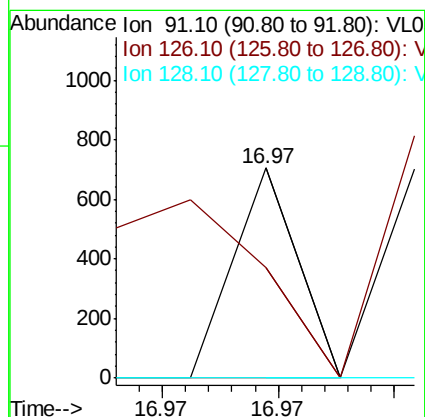
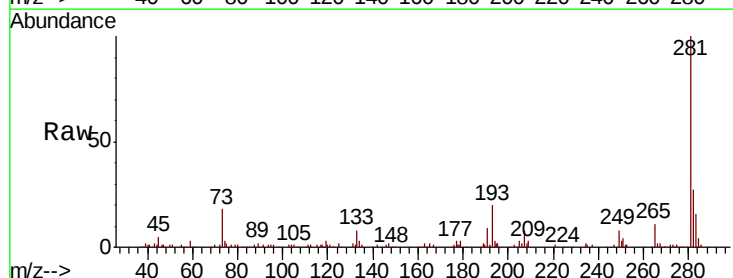
RT: 16.97 min Scan# 4411

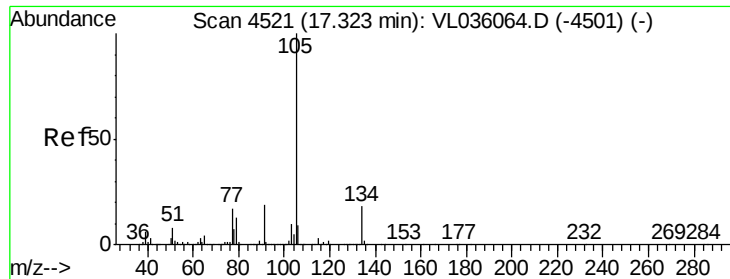
Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 136   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 0.0   | 13.5  | 20.3# |
| 128      | 0.0   | 4.4   | 6.6#  |





#67

sec-Butylbenzene

Concen: 0.001 ppbv

RT: 17.26 min Scan# 4502

Delta R.T. -0.06 min

Lab File: VL036149.D

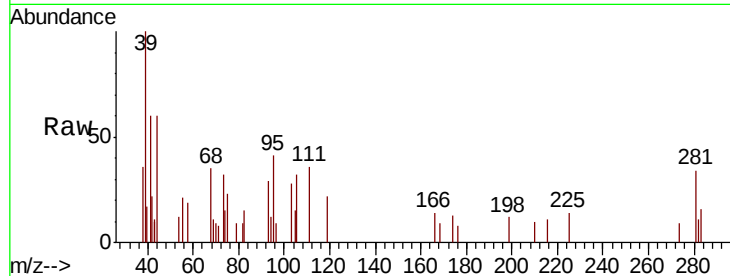
Acq: 11 Dec 2020 4:47

Tot Ion: 105 Resp: 381

Ion Ratio Lower Upper

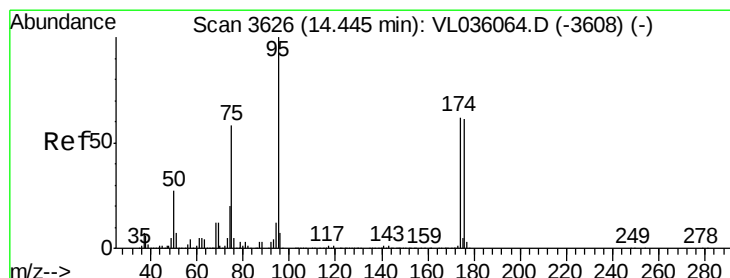
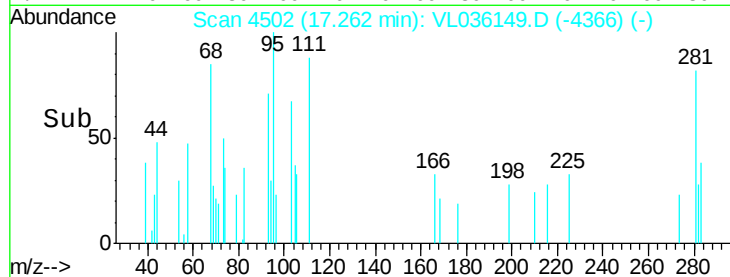
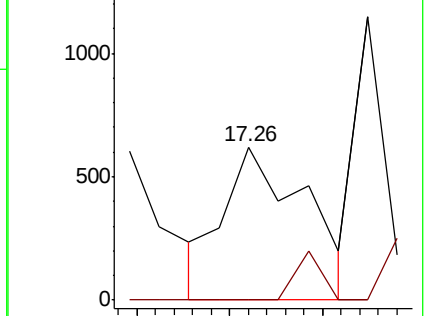
105 100

134 0.0 14.2 21.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.892 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

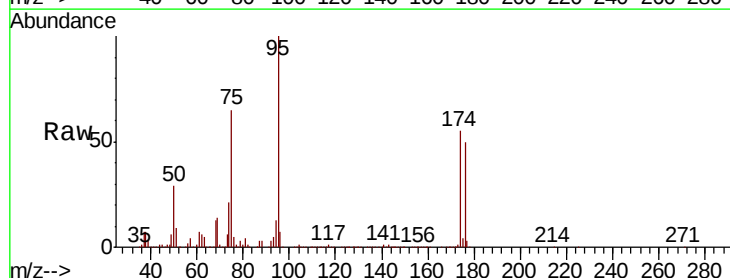
Tgt Ion: 95 Resp: 2064136

Ion Ratio Lower Upper

95 100

174 54.3 50.7 76.1

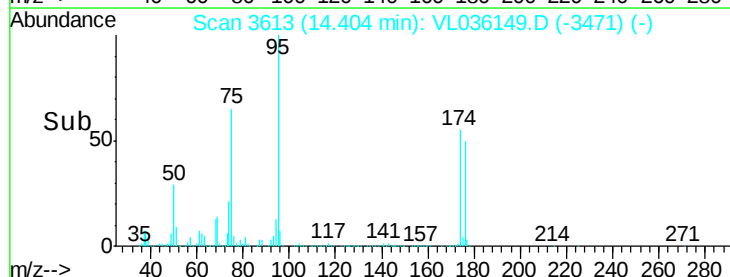
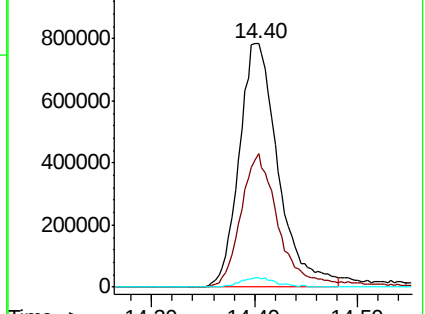
175 3.9 4.0 6.0#

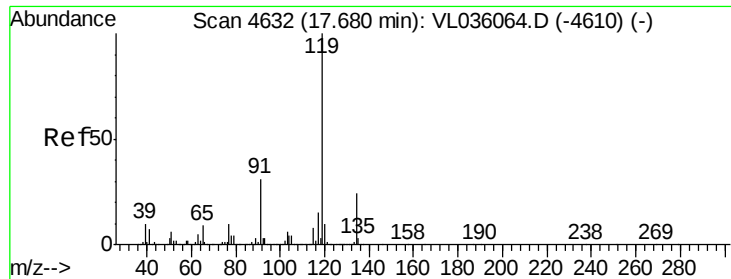


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

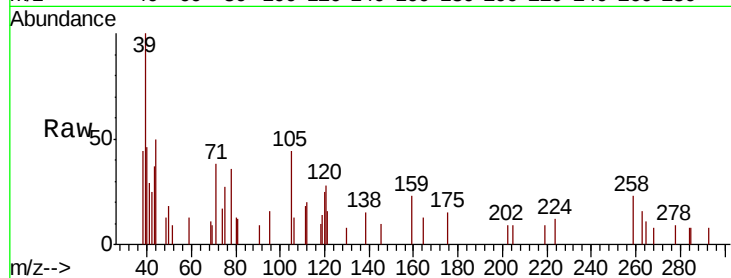
Ion 175.00 (174.70 to 175.70): V



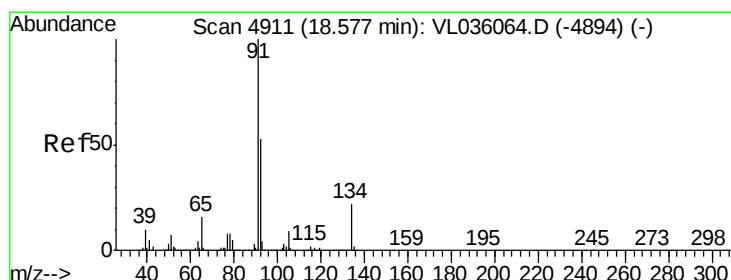
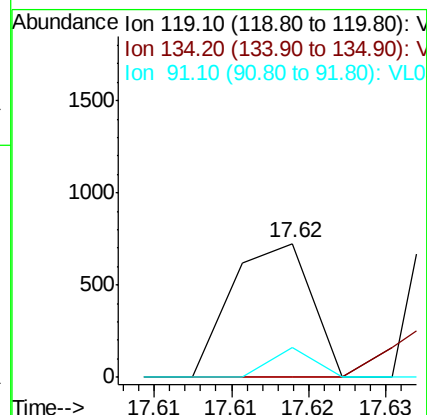
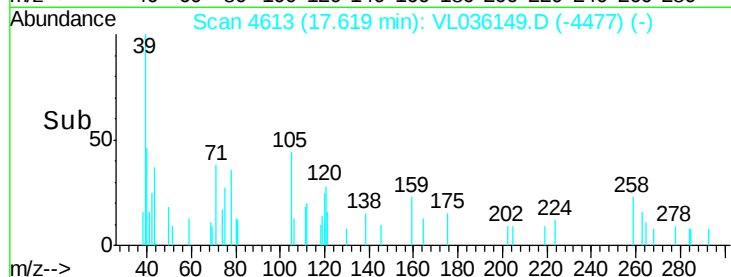


#69  
p-Isopropyltoluene  
Concen: 0.001 ppbv  
RT: 17.62 min Scan# 4613  
Delta R.T. -0.06 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 0.0   | 19.8  | 29.6# |
| 91      | 0.0   | 25.8  | 38.6# |

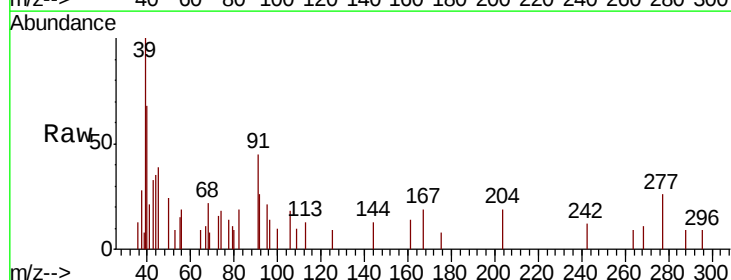


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

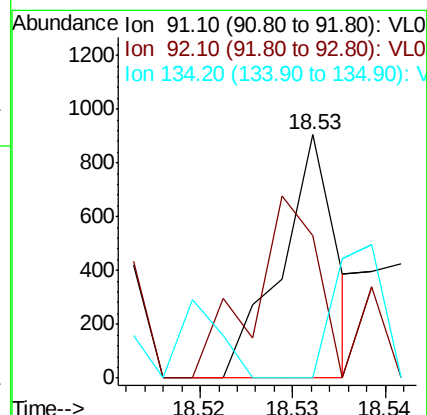
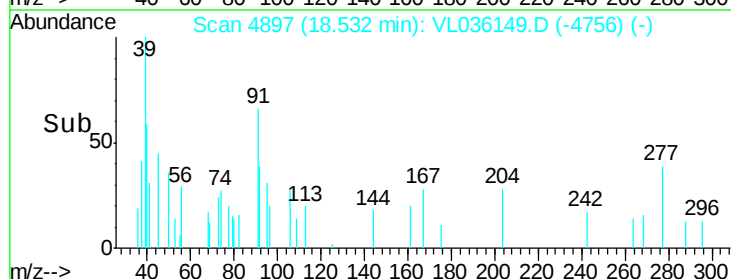


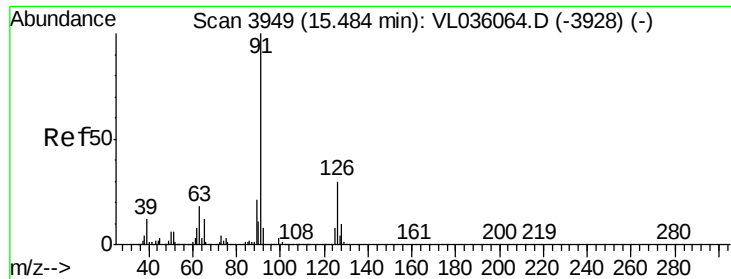
#70  
n-Butylbenzene  
Concen: 0.001 ppbv  
RT: 18.53 min Scan# 4897  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 49.6  | 43.3  | 64.9  |
| 134     | 22.0  | 17.1  | 25.7  |



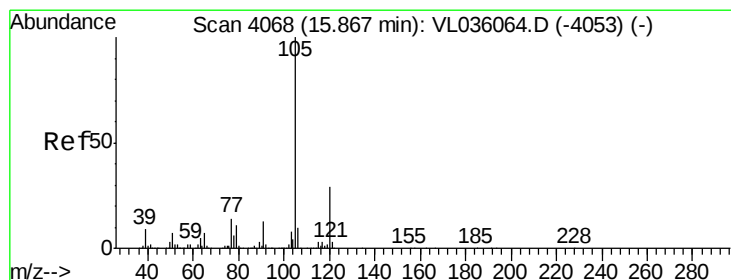
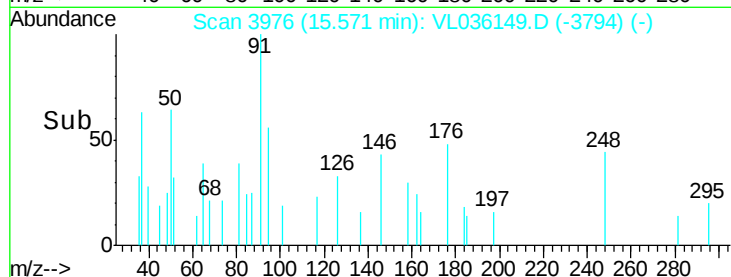
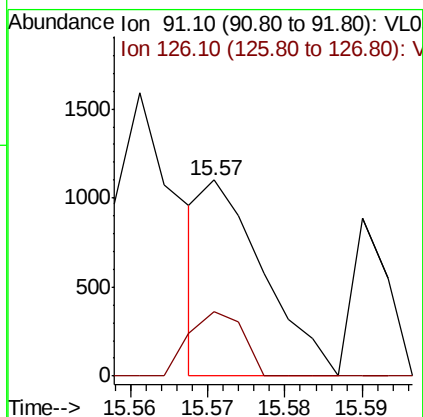
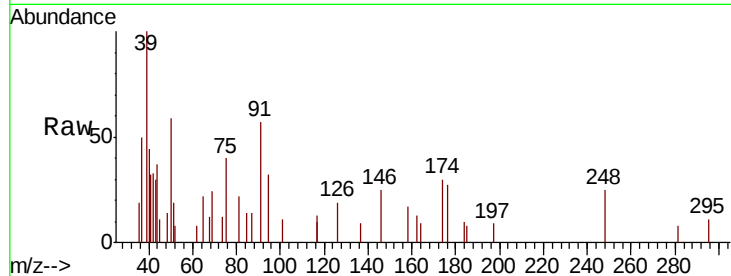
Abundance Ion 91.10 (90.80 to 91.80): V  
Ion 92.10 (91.80 to 92.80): V  
Ion 134.20 (133.90 to 134.90): V





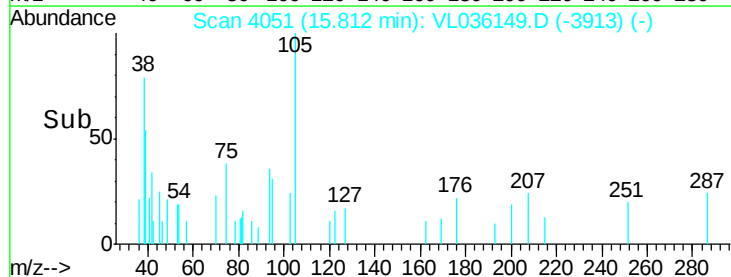
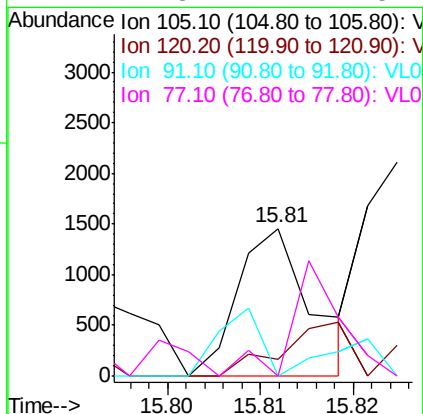
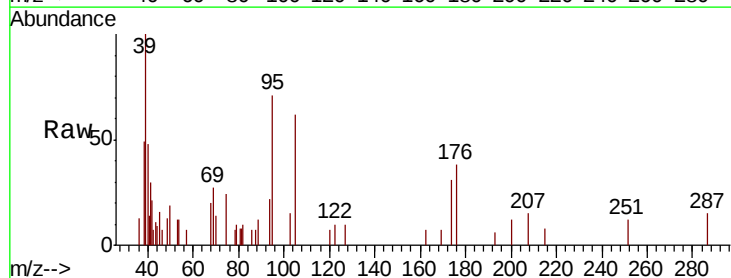
#71  
2-Chlorotoluene  
Concen: 0.002 ppbv  
RT: 15.57 min Scan# 3976  
Delta R.T. 0.09 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

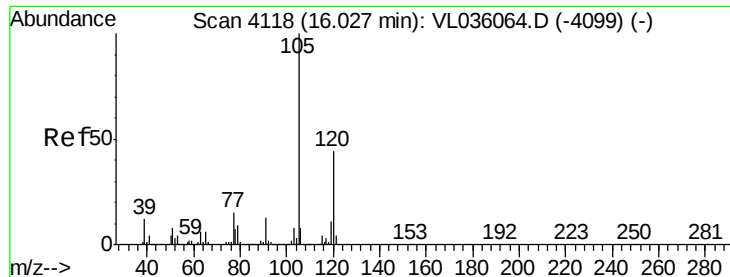
Tot Ion: 91 Resp: 600  
Ion Ratio Lower Upper  
91 100  
126 29.2 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 0.003 ppbv  
RT: 15.81 min Scan# 4051  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

Tgt Ion: 105 Resp: 798  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.6 35.4#  
91 72.3 11.4 17.0#  
77 112.3 12.1 18.1#

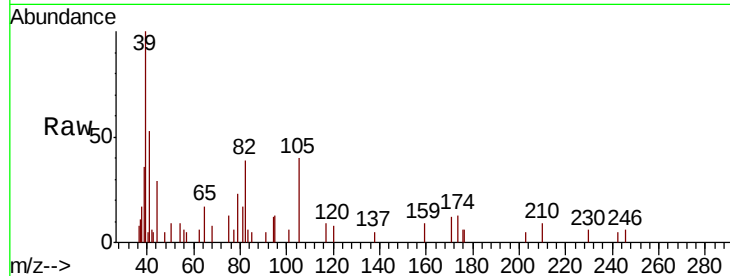




#73

1,3,5-Trimethylbenzene  
Concen: 0.002 ppbv  
RT: 15.98 min Scan# 4102  
Delta R.T. -0.05 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 29.9  | 35.4  | 53.2# |



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

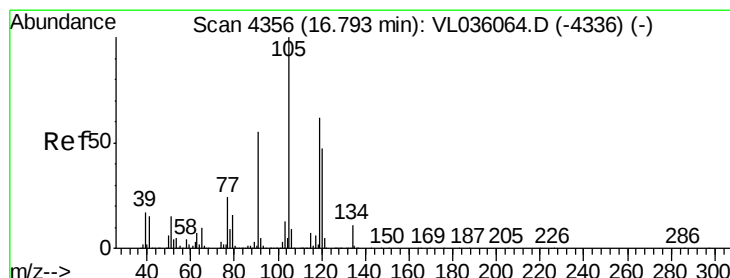
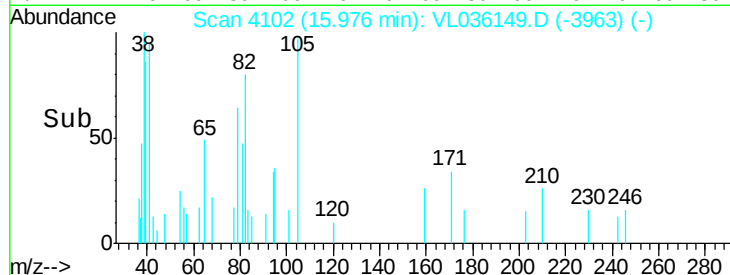
15.98

1000

500

0

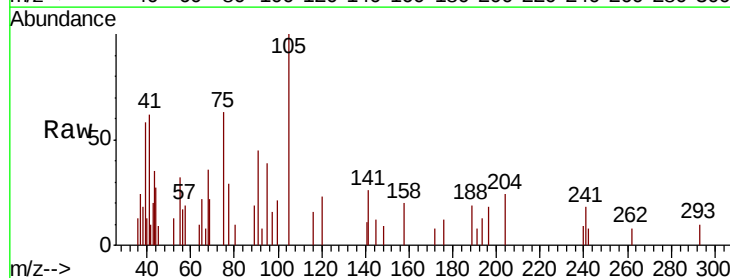
Time-->



#74

1,2,4-Trimethylbenzene  
Concen: 0.004 ppbv  
RT: 16.73 min Scan# 4338  
Delta R.T. -0.06 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 7.7   | 37.4  | 56.0# |
| 91      | 36.1  | 45.6  | 68.4# |
| 77      | 10.4  | 19.4  | 29.2# |



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

4000

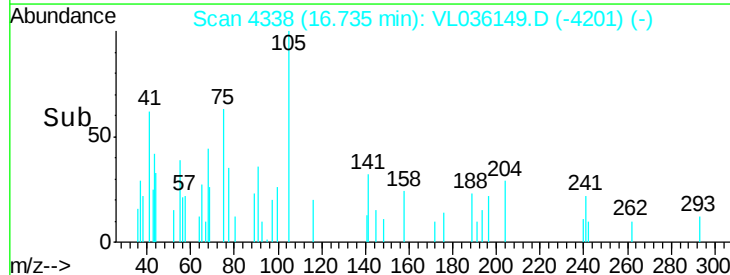
3000

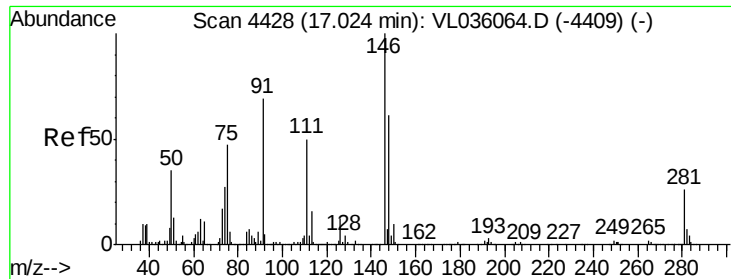
2000

1000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 0.003 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. -0.04 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

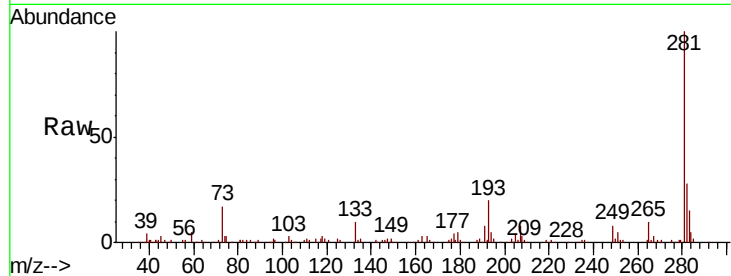
Tot Ion:146 Resp: 427

Ion Ratio Lower Upper

146 100

111 510.1 25.1 75.3#

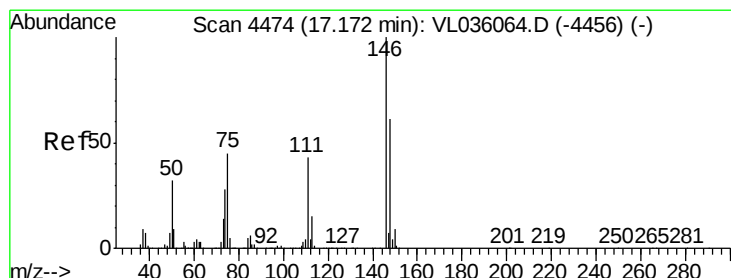
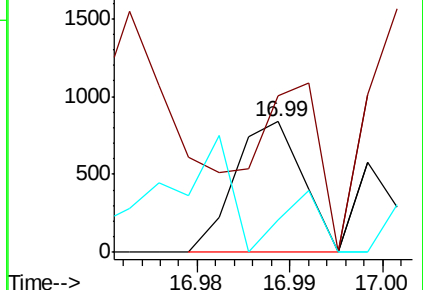
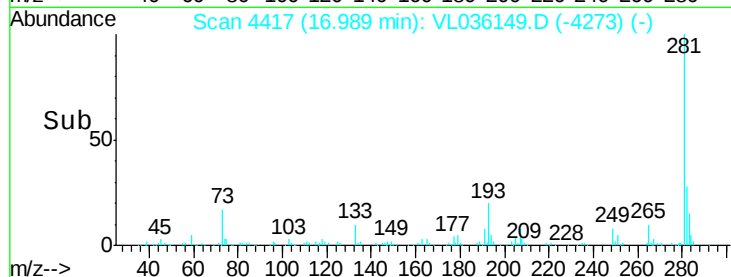
148 224.8 32.9 98.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.001 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. -0.06 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

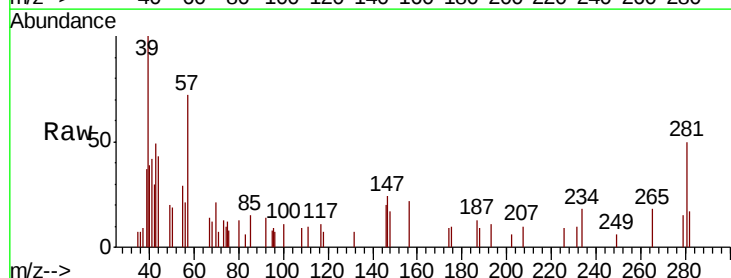
Tgt Ion:146 Resp: 182

Ion Ratio Lower Upper

146 100

111 106.6 24.3 72.8#

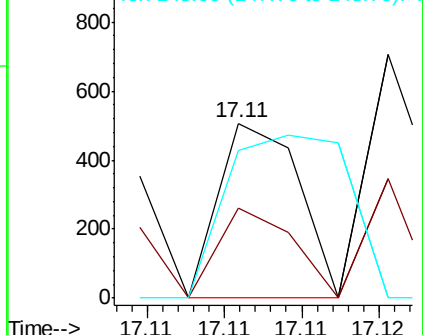
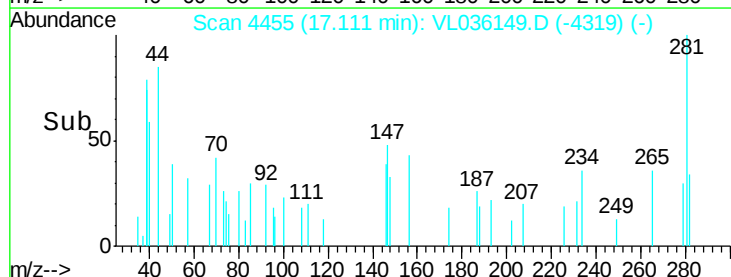
148 469.2 32.8 98.3#

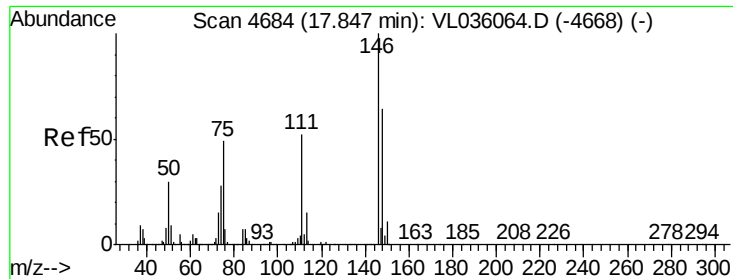


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.001 ppbv

RT: 17.80 min Scan# 4668

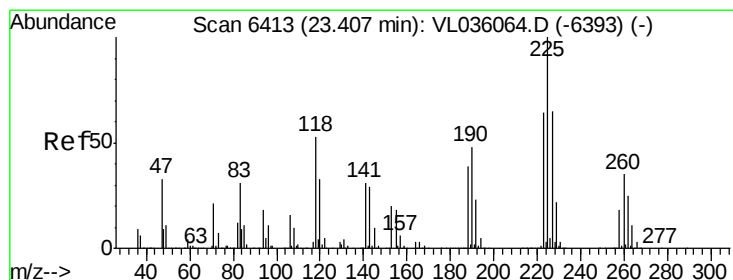
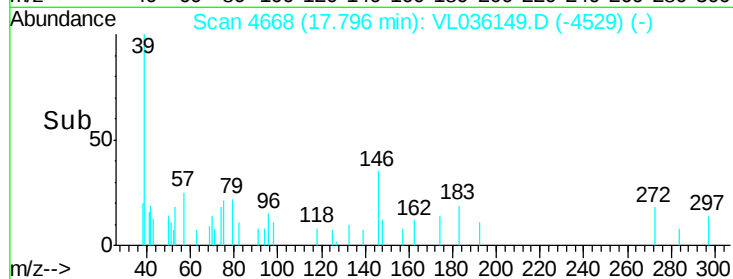
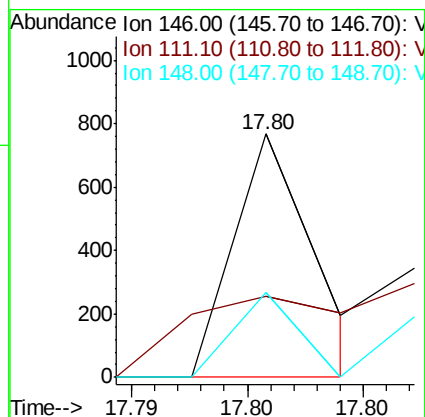
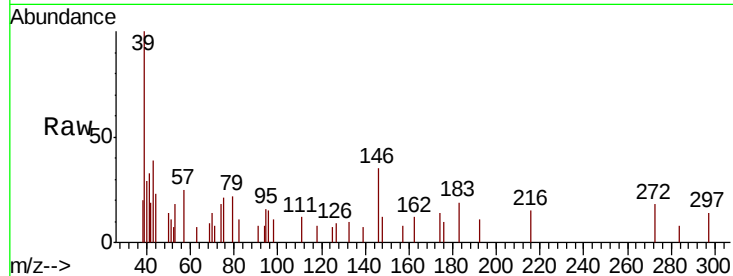
Delta R.T. -0.05 min

Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tot Ion:146 Resp: 186

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 98.9  | 26.1  | 78.2# |
| 148 | 0.0   | 33.1  | 99.5# |



#78

Hexachloro-1,3-Butadiene

Concen: 0.001 ppbv

RT: 23.36 min Scan# 6398

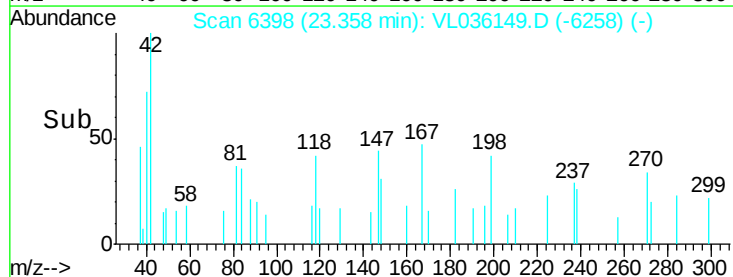
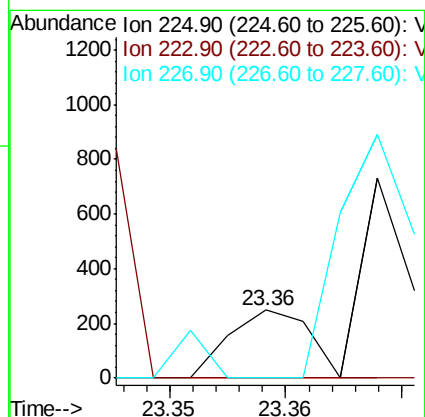
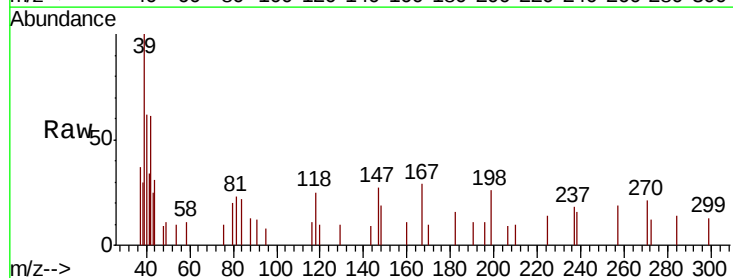
Delta R.T. -0.05 min

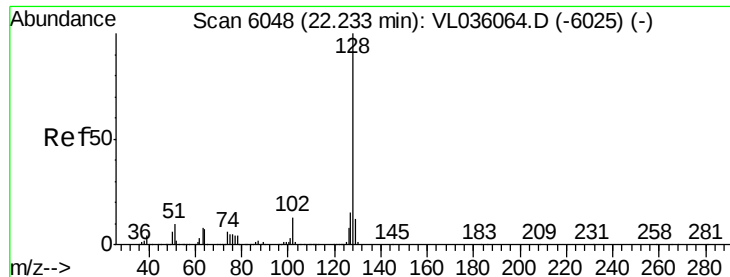
Lab File: VL036149.D

Acq: 11 Dec 2020 4:47

Tgt Ion:225 Resp: 118

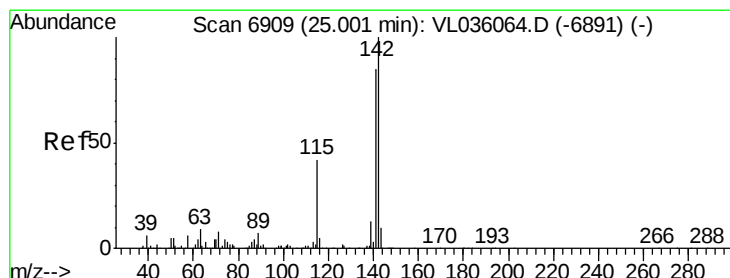
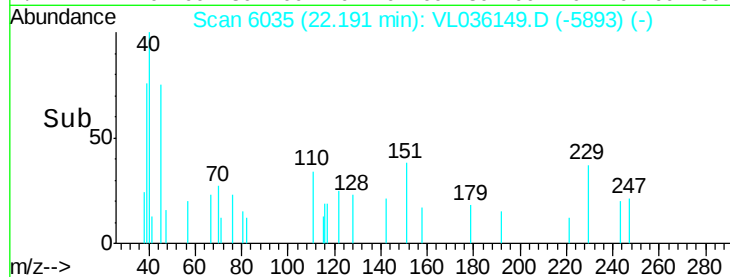
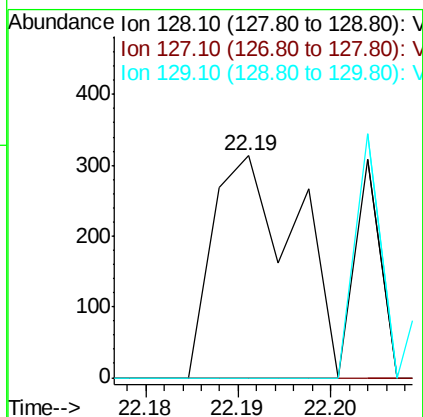
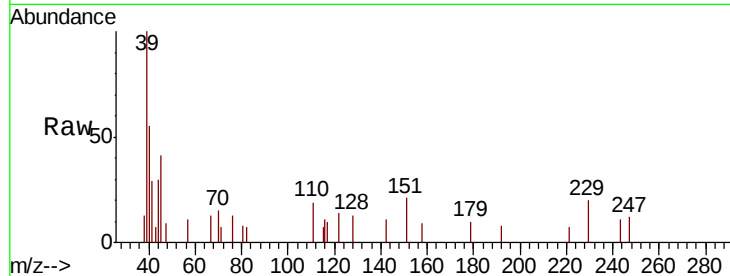
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 61.9  | 51.1  | 76.7  |
| 227 | 0.0   | 51.7  | 77.5# |





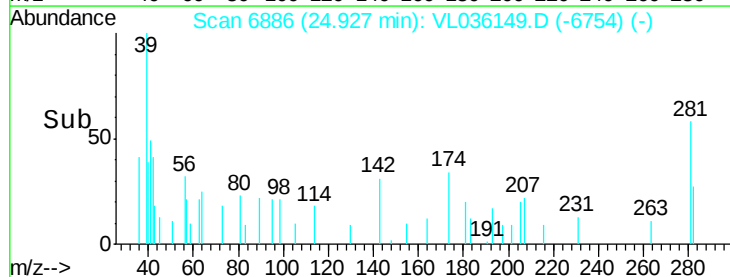
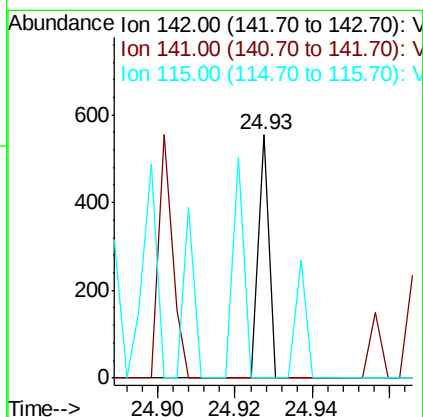
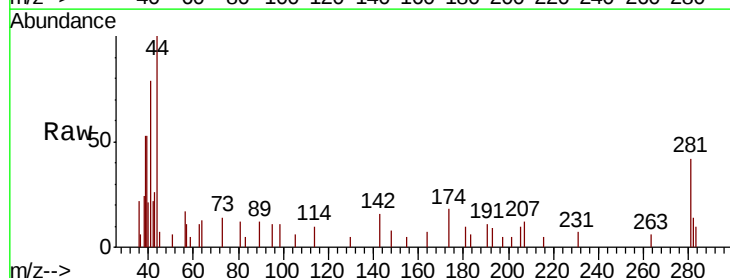
#79  
Naphthalene  
Concen: 0.001 ppbv  
RT: 22.19 min Scan# 6035  
Delta R.T. -0.04 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

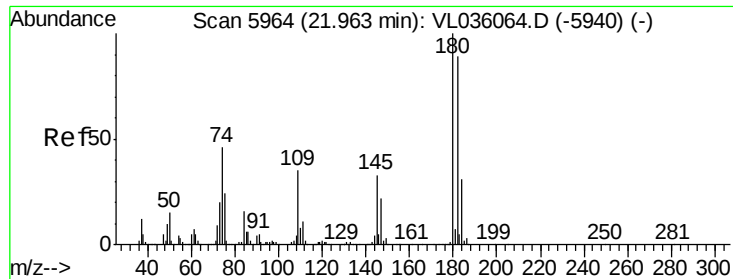
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 11.7  | 17.5# |
| 129     | 0.0   | 9.3   | 13.9# |



#80  
Naphthalene, 2-methyl-  
Concen: 0.003 ppbv  
RT: 24.93 min Scan# 6886  
Delta R.T. -0.07 min  
Lab File: VL036149.D  
Acq: 11 Dec 2020 4:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 0.0   | 64.3  | 96.5# |
| 115     | 474.8 | 33.9  | 50.9# |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.001 ppbv  
 RT: 21.90 min Scan# 5945  
 Delta R.T. -0.06 min  
 Lab File: VL036149.D  
 Acq: 11 Dec 2020 4:47

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 180   | Resp: | 77   |
| Ion Ratio | Lower | Upper |      |
| 180       | 100   |       |      |
| 182       | 0.0   | 0.0   | 0.0  |
| 184       | 198.7 | 0.0   | 0.0# |

