

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\  
 Data File : VL036137.D  
 Acq On : 10 Dec 2020 20:59  
 Operator : SY/AP  
 Sample : L4930-01 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 11 04:29:25 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   | 1327119  | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 2692070  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2387096  | 10.00 | ppbv  | -0.04    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2063521  | 10.89    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 108.90% |

#### Target Compounds

|                                |      |     |        |       | Ovalue     |
|--------------------------------|------|-----|--------|-------|------------|
| 2) Dichlorodifluoromethane     | 3.17 | 85  | 306    | 0.002 | ppbv 97    |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 6453   | 0.043 | ppbv 96    |
| 4) Chloromethane               | 3.12 | 50  | 1809   | 0.024 | ppbv # 75  |
| 5) Vinyl Chloride              | 3.24 | 62  | 273    | 0.003 | ppbv # 44  |
| 6) Bromomethane                | 3.41 | 94  | 118    | 0.003 | ppbv # 1   |
| 7) Chloroethane                | 3.60 | 64  | 74     | 0.003 | ppbv # 40  |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 306    | 0.002 | ppbv # 1   |
| 9) Propene                     | 3.08 | 41  | 759    | 0.010 | ppbv 86    |
| 10) Heptane                    | 8.09 | 43  | 840    | 0.004 | ppbv # 29  |
| 11) Trichlorofluoromethane     | 3.92 | 101 | 502    | 0.003 | ppbv 97    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101 | 189    | 0.002 | ppbv # 12  |
| 13) Ethanol                    | 3.61 | 45  | 28015m | 2.679 | ppbv       |
| 14) Bromoethene                | 3.65 | 108 | 115    | 0.002 | ppbv # 49  |
| 15) Acetone                    | 3.85 | 43  | 89318m | 0.560 | ppbv       |
| 16) 1,3-Butadiene              | 3.32 | 39  | 1437   | 0.018 | ppbv # 11  |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 167    | 0.001 | ppbv # 71  |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 132    | 0.002 | ppbv # 1   |
| 19) Isopropyl Alcohol          | 3.95 | 45  | 134    | 0.001 | ppbv # 100 |
| 20) Methylene Chloride         | 4.33 | 84  | 26046m | 0.398 | ppbv       |
| 21) Allyl Chloride             | 4.39 | 41  | 478    | 0.005 | ppbv # 18  |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 107    | 0.002 | ppbv # 1   |
| 23) Vinyl Acetate              | 5.06 | 43  | 727    | 0.003 | ppbv # 23  |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 414    | 0.003 | ppbv # 88  |
| 25) Ethyl Acetate              | 5.66 | 43  | 2403   | 0.008 | ppbv # 72  |
| 27) Carbon Disulfide           | 4.53 | 76  | 84     | 0.001 | ppbv # 59  |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 33     | 0.000 | ppbv # 51  |
| 29) Chloroform                 | 5.73 | 83  | 662    | 0.004 | ppbv # 23  |
| 30) Cyclohexane                | 7.11 | 84  | 177    | 0.002 | ppbv # 1   |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 277    | 0.002 | ppbv # 41  |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97  | 308    | 0.002 | ppbv # 21  |
| 34) 2-Butanone                 | 5.24 | 43  | 3273   | 0.018 | ppbv # 1   |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 737    | 0.005 | ppbv # 53  |
| 36) Benzene                    | 6.88 | 78  | 3684   | 0.016 | ppbv # 79  |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 186    | 0.001 | ppbv # 83  |
| 38) Trichloroethene            | 7.81 | 130 | 85     | 0.001 | ppbv # 76  |
| 40) 1,4-Dioxane                | 7.82 | 88  | 167    | 0.006 | ppbv # 1   |
| 41) Tetrahydrofuran            | 6.04 | 42  | 95     | 0.001 | ppbv # 40  |
| 42) Bromodichloromethane       | 7.77 | 83  | 549    | 0.003 | ppbv # 63  |
| 43) Methyl Methacrylate        | 8.00 | 69  | 32     | 0.000 | ppbv # 1   |
| 44) 2,2,4-Trimethylpentane     | 7.84 | 57  | 3761   | 0.009 | ppbv # 41  |
| 45) t-1,3-Dichloropropene      | 9.23 | 75  | 204    | 0.002 | ppbv # 42  |

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

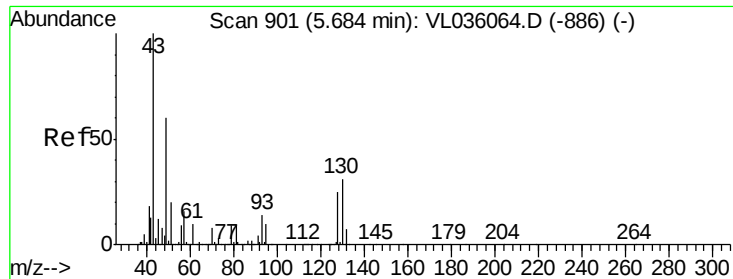
QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 33       | 0.000 | ppbv # | 1        |
| 47) 1,1,2-Trichloroethane     | 9.44  | 97   | 140      | 0.002 | ppbv # | 14       |
| 48) Dibromochloromethane      | 10.27 | 129  | 108      | 0.001 | ppbv   | 89       |
| 49) Bromoform                 | 13.01 | 173  | 281      | 0.003 | ppbv # | 52       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 294      | 0.001 | ppbv # | 40       |
| 51) 2-Hexanone                | 10.10 | 43   | 583      | 0.003 | ppbv # | 29       |
| 52) Tetrachloroethene         | 11.19 | 164  | 44       | 0.001 | ppbv # | 18       |
| 53) Toluene                   | 9.79  | 91   | 55452m   | 0.216 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 10.58 | 107  | 130      | 0.001 | ppbv # | 2        |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 130      | 0.001 | ppbv # | 8        |
| 57) Chlorobenzene             | 12.13 | 112  | 898      | 0.005 | ppbv # | 54       |
| 58) Ethyl Benzene             | 12.93 | 91   | 2715     | 0.008 | ppbv   | 92       |
| 59) m/p-Xylene                | 12.97 | 91   | 3026     | 0.011 | ppbv # | 34       |
| 60) o-Xylene                  | 13.73 | 91   | 218      | 0.001 | ppbv   | 73       |
| 61) Styrene                   | 13.52 | 104  | 612      | 0.004 | ppbv # | 25       |
| 62) Isopropylbenzene          | 14.64 | 105  | 343      | 0.001 | ppbv # | 50       |
| 63) 1,1,2,2-Tetrachloroethane | 13.65 | 83   | 374      | 0.002 | ppbv # | 27       |
| 64) n-propylbenzene           | 15.29 | 120  | 84       | 0.001 | ppbv   | 79       |
| 65) tert-Butylbenzene         | 16.72 | 119  | 595      | 0.002 | ppbv # | 1        |
| 66) Benzyl Chloride           | 17.00 | 91   | 324      | 0.004 | ppbv # | 1        |
| 67) sec-Butylbenzene          | 17.27 | 105  | 460      | 0.001 | ppbv # | 37       |
| 69) p-Isopropyltoluene        | 17.61 | 119  | 260      | 0.001 | ppbv # | 1        |
| 70) n-Butylbenzene            | 18.52 | 91   | 314      | 0.001 | ppbv # | 33       |
| 71) 2-Chlorotoluene           | 15.50 | 91   | 134      | 0.000 | ppbv   | 83       |
| 72) 4-Ethyltoluene            | 15.81 | 105  | 533      | 0.002 | ppbv # | 11       |
| 73) 1,3,5-Trimethylbenzene    | 15.97 | 105  | 355      | 0.001 | ppbv # | 1        |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 778      | 0.003 | ppbv # | 57       |
| 75) 1,3-Dichlorobenzene       | 16.97 | 146  | 164      | 0.001 | ppbv # | 22       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 516      | 0.004 | ppbv # | 57       |
| 77) 1,2-Dichlorobenzene       | 17.79 | 146  | 79       | 0.001 | ppbv # | 21       |
| 78) Hexachloro-1,3-Butadiene  | 23.34 | 225  | 183      | 0.002 | ppbv # | 2        |
| 79) Naphthalene               | 22.19 | 128  | 801      | 0.006 | ppbv # | 77       |
| 80) Naphthalene,2-methyl-     | 24.88 | 142  | 76       | 0.002 | ppbv # | 1        |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 350      | 0.004 | ppbv # | 100      |
| -----                         |       |      |          |       |        |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

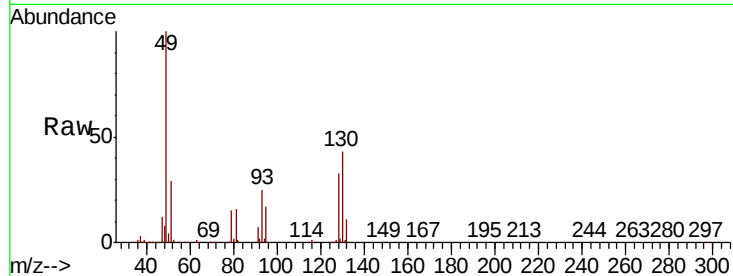
Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tot Ion: 49 Resp: 1327119

| 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

5.65

600000

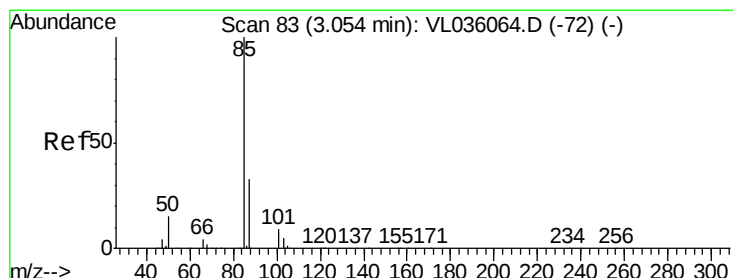
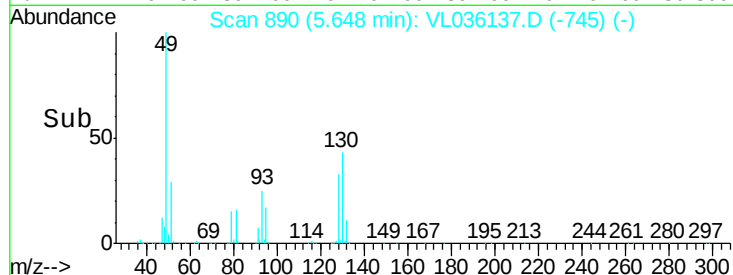
400000

200000

0

Time-->

5.55 5.60 5.65 5.70 5.75



#2

Dichlorodifluoromethane

Concen: 0.002 ppbv

RT: 3.17 min Scan# 120

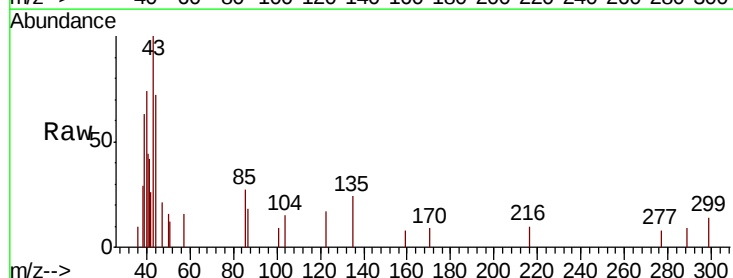
Delta R.T. 0.12 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion: 85 Resp: 306

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 31.4  | 26.5  | 39.7  |



Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.17

600

500

400

300

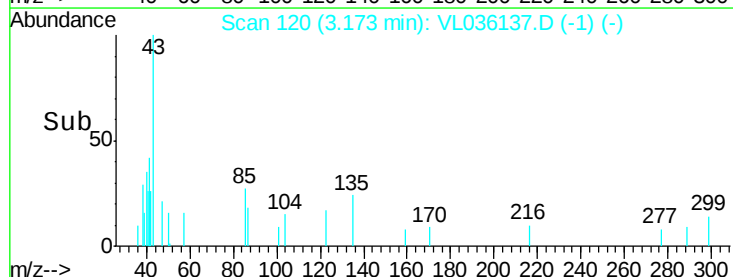
200

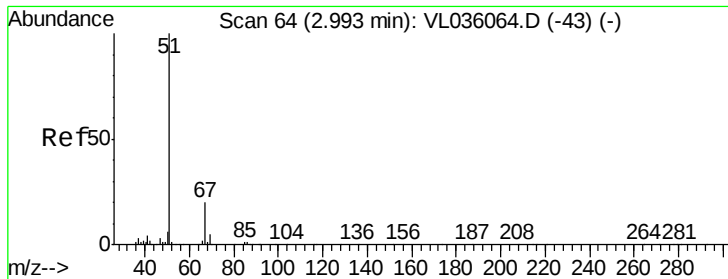
100

0

Time-->

3.17 3.18 3.19





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL036137.D

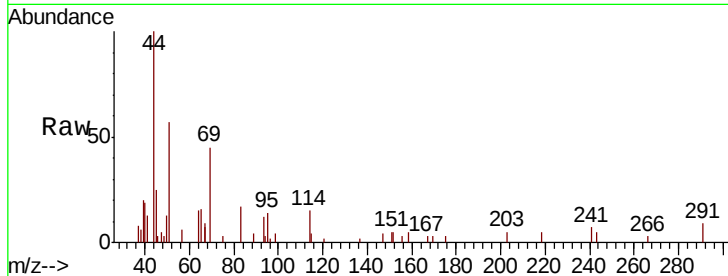
Acq: 10 Dec 2020 20:59

Tot Ion: 51 Resp: 6453

Ion Ratio Lower Upper

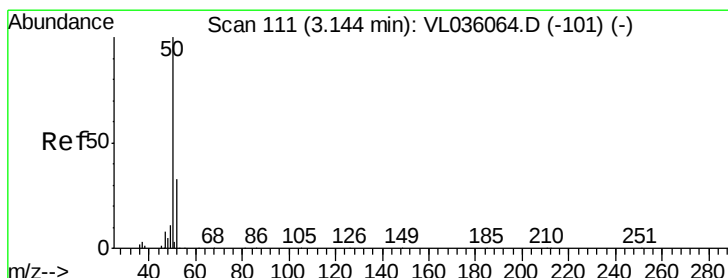
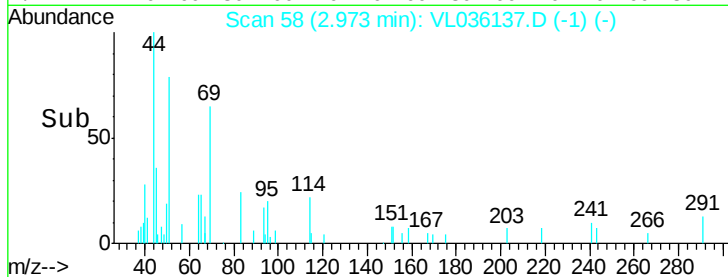
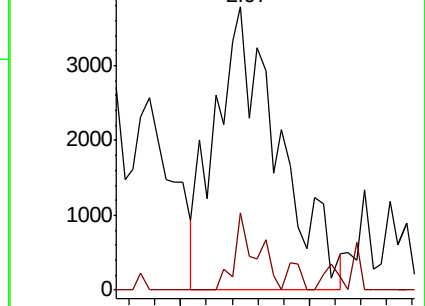
51 100

67 15.9 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.024 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL036137.D

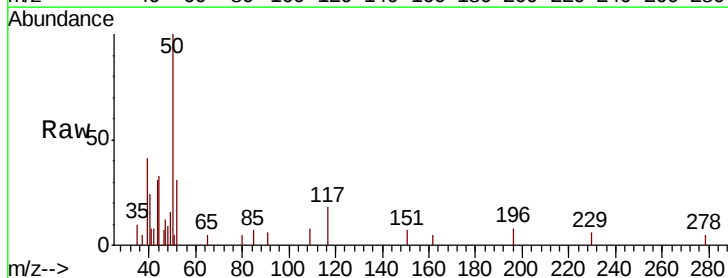
Acq: 10 Dec 2020 20:59

Tgt Ion: 50 Resp: 1809

Ion Ratio Lower Upper

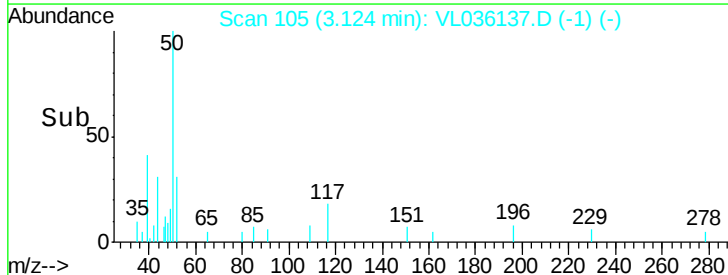
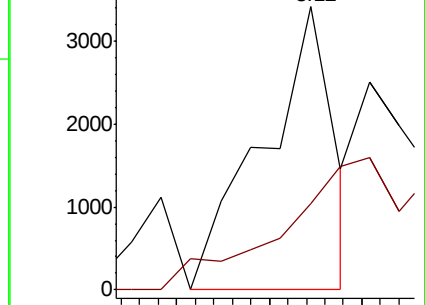
50 100

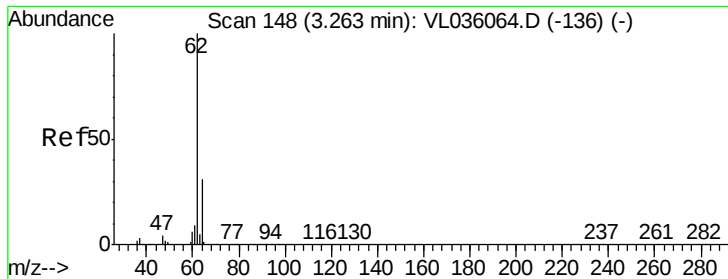
52 18.7 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.003 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL036137.D

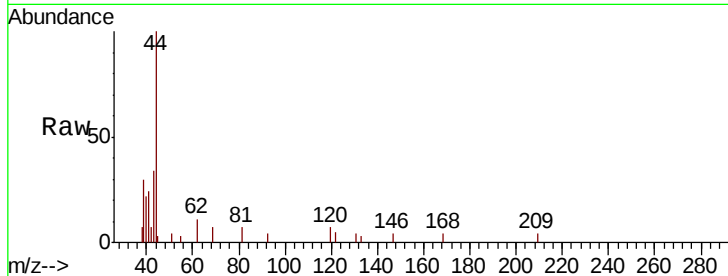
Acq: 10 Dec 2020 20:59

Tot Ion: 62 Resp: 273

Ion Ratio Lower Upper

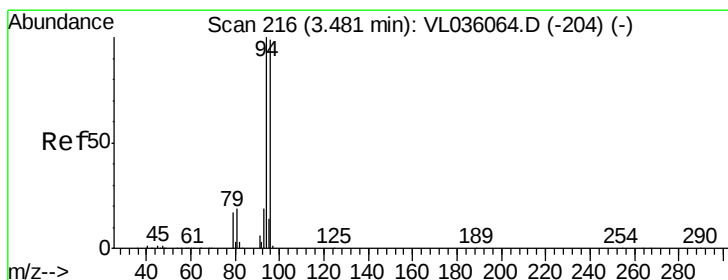
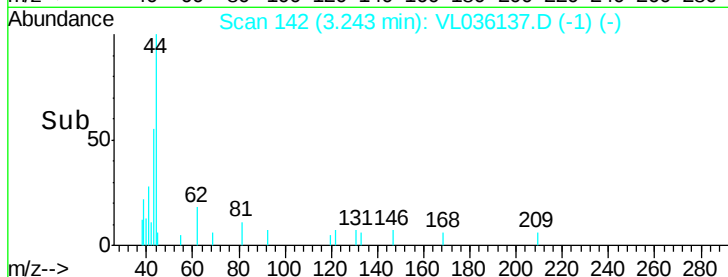
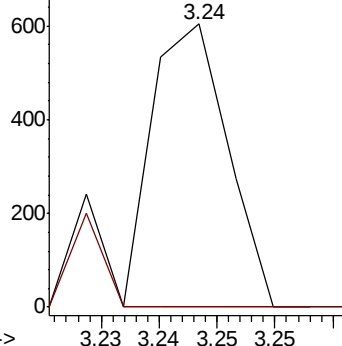
62 100

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: 3.41 min Scan# 195

Delta R.T. -0.07 min

Lab File: VL036137.D

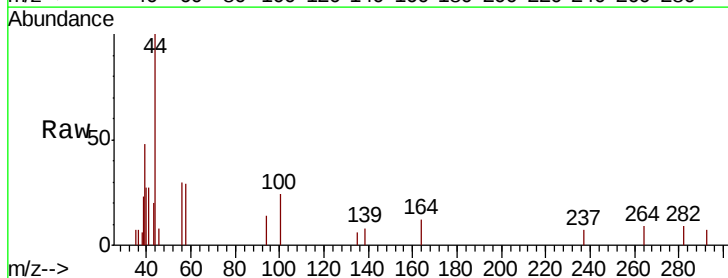
Acq: 10 Dec 2020 20:59

Tgt Ion: 94 Resp: 118

Ion Ratio Lower Upper

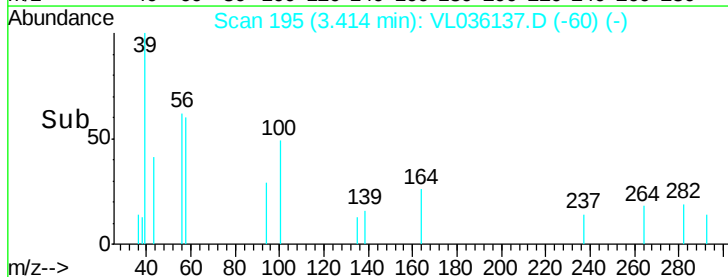
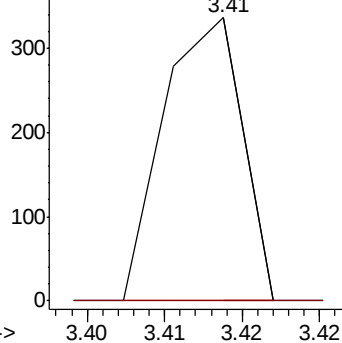
94 100

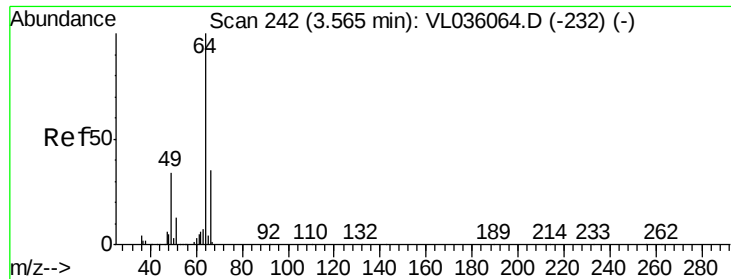
96 0.0 79.4 119.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.003 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.03 min

Lab File: VL036137.D

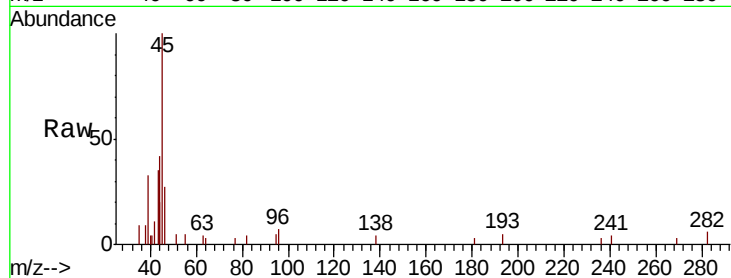
Acq: 10 Dec 2020 20:59

Tot Ion: 64 Resp: 74

Ion Ratio Lower Upper

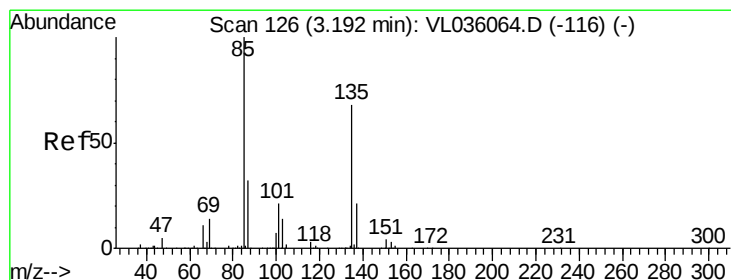
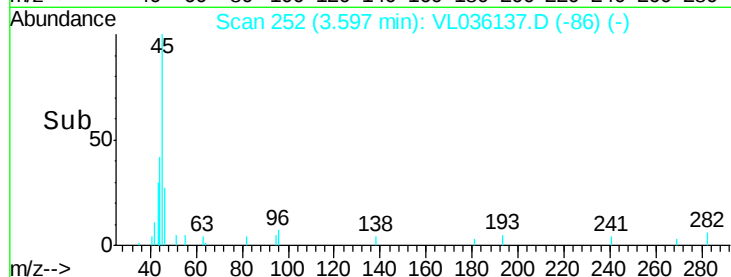
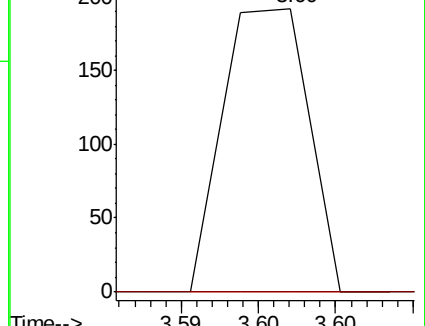
64 100

66 0.0 27.7 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.002 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL036137.D

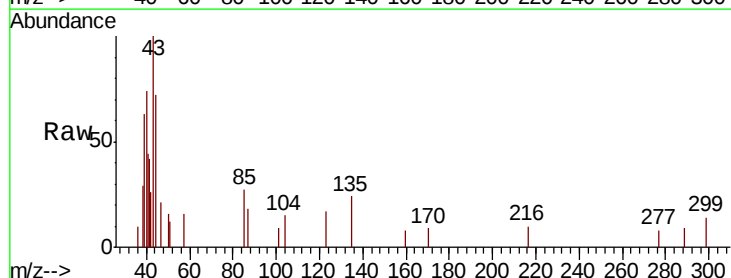
Acq: 10 Dec 2020 20:59

Tgt Ion: 85 Resp: 306

Ion Ratio Lower Upper

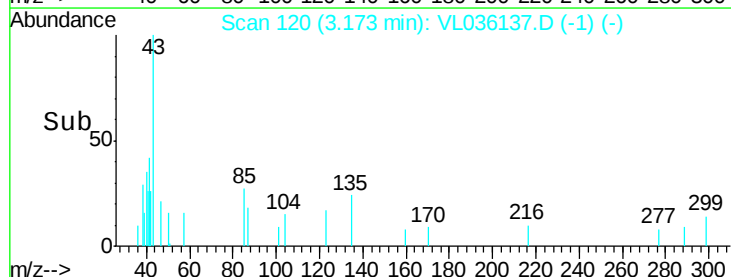
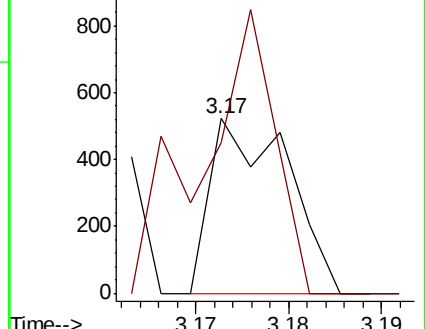
85 100

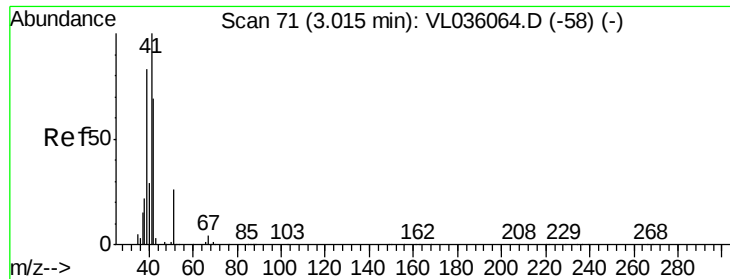
135 155.2 53.8 80.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0





#9

Propene

Concen: 0.010 ppbv

RT: 3.08 min Scan# 92

Delta R.T. 0.07 min

Lab File: VL036137.D

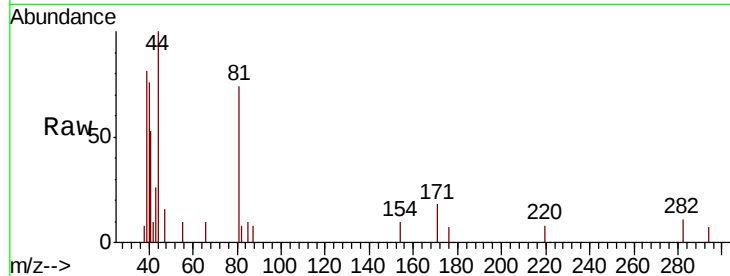
Acq: 10 Dec 2020 20:59

Tot Ion: 41 Resp: 759

Ion Ratio Lower Upper

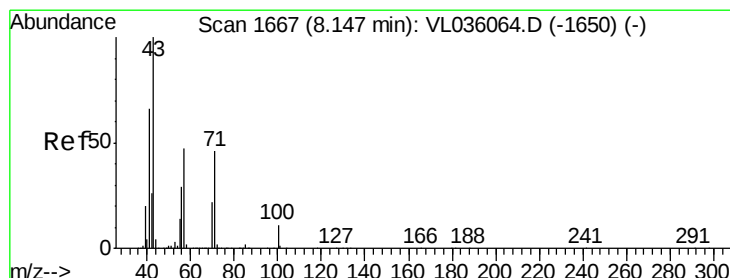
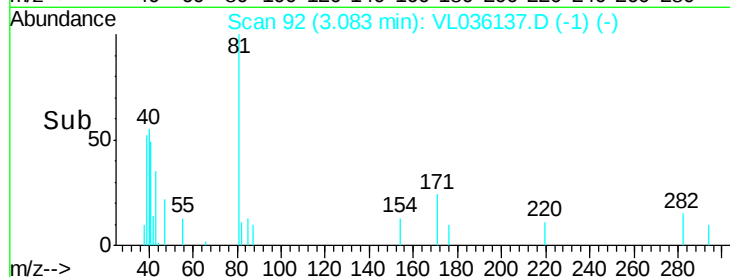
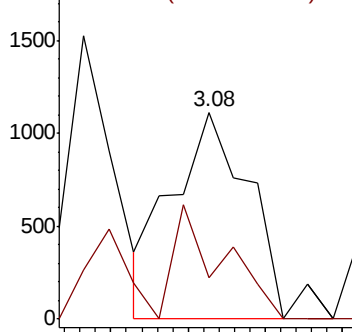
41 100

42 59.9 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: 0.004 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.05 min

Lab File: VL036137.D

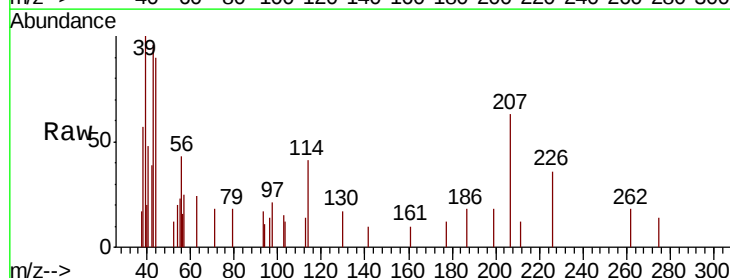
Acq: 10 Dec 2020 20:59

Tgt Ion: 43 Resp: 840

Ion Ratio Lower Upper

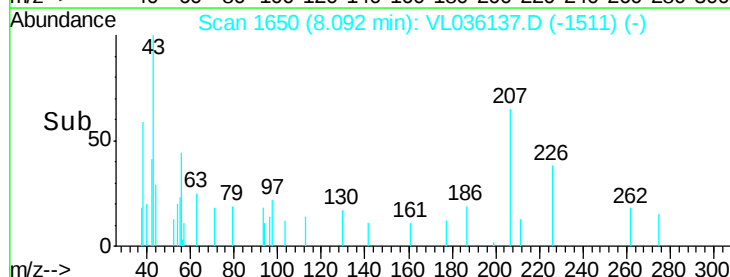
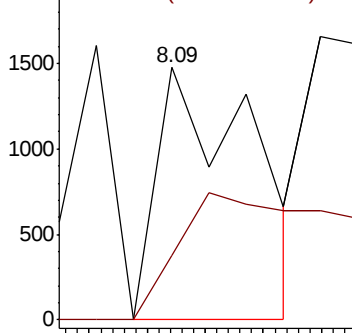
43 100

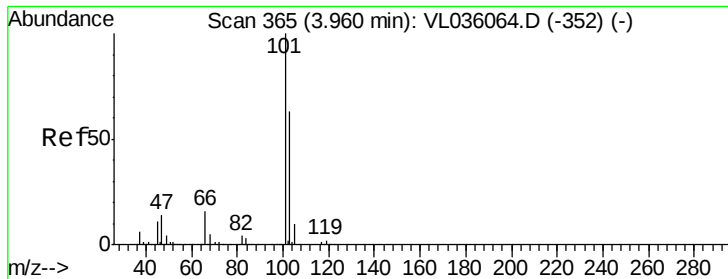
57 0.0 37.9 56.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.003 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.04 min

Lab File: VL036137.D

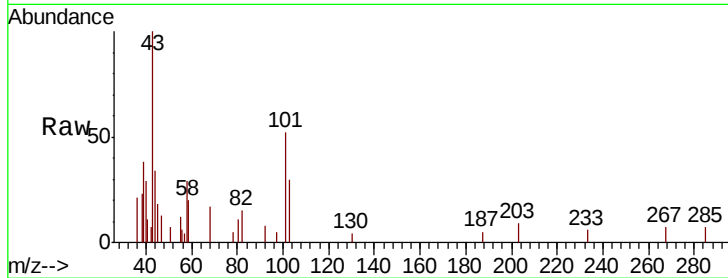
Acq: 10 Dec 2020 20:59

Tot Ion:101 Resp: 502

Ion Ratio Lower Upper

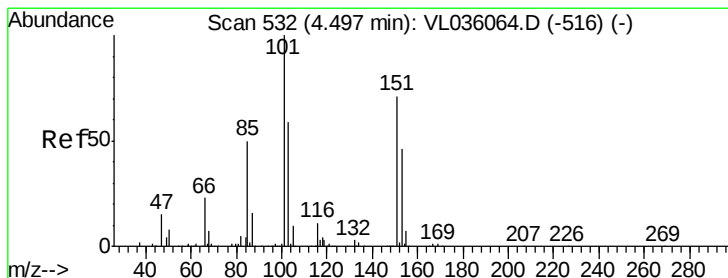
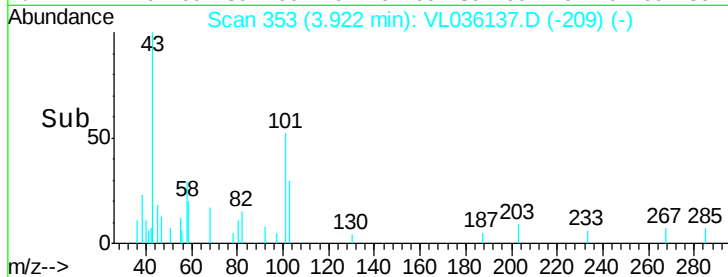
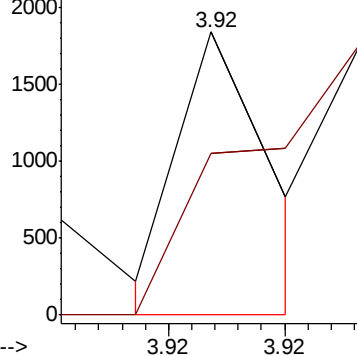
101 100

103 64.9 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: 0.002 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.03 min

Lab File: VL036137.D

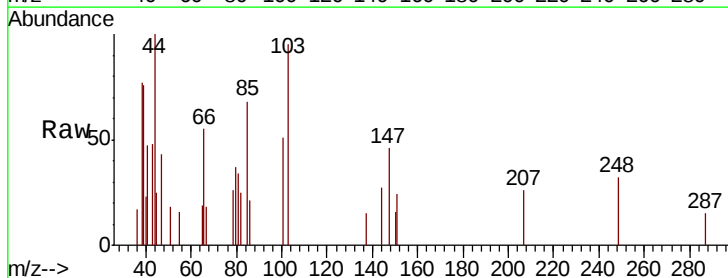
Acq: 10 Dec 2020 20:59

Tgt Ion:101 Resp: 189

Ion Ratio Lower Upper

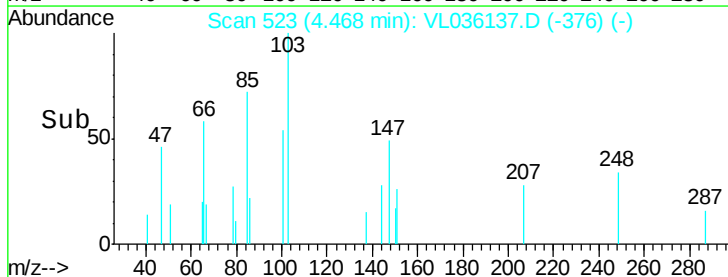
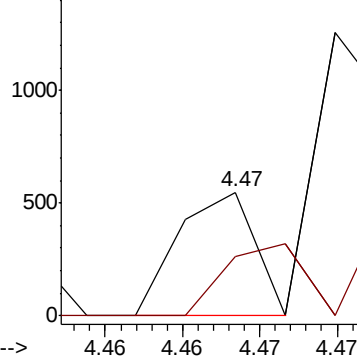
101 100

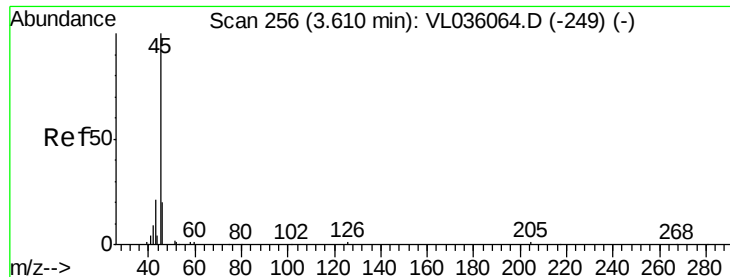
151 0.0 59.3 88.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 2.679 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036137.D

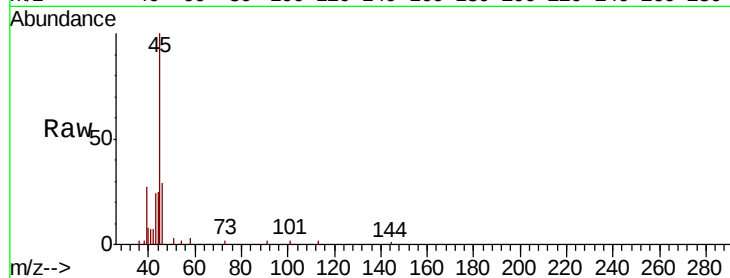
Acq: 10 Dec 2020 20:59

Tot Ion: 45 Resp: 28015

Ion Ratio Lower Upper

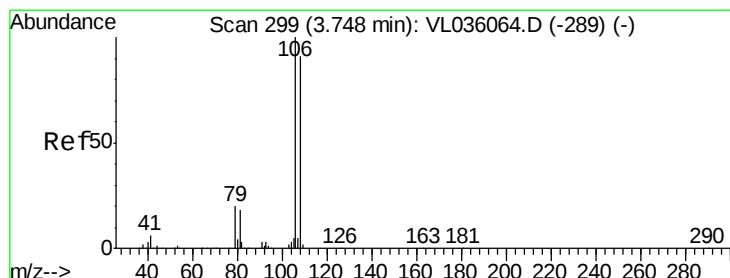
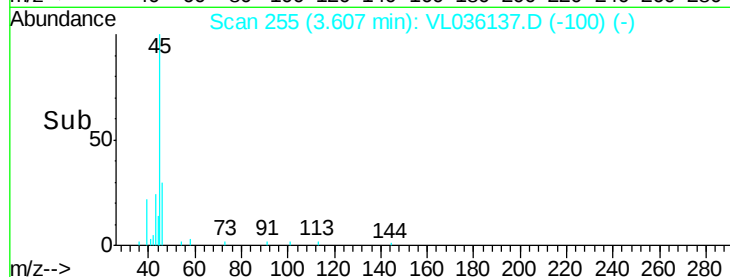
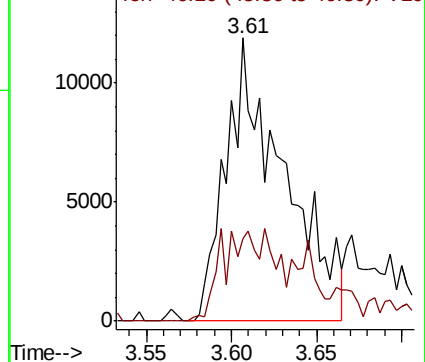
45 100

46 45.2 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: 0.002 ppbv

RT: 3.65 min Scan# 268

Delta R.T. -0.10 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

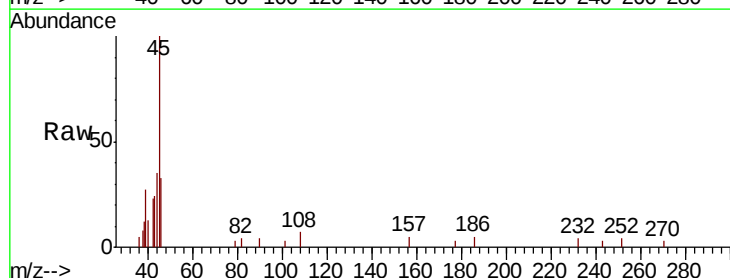
Tgt Ion: 108 Resp: 115

Ion Ratio Lower Upper

108 100

106 120.9 91.0 136.4

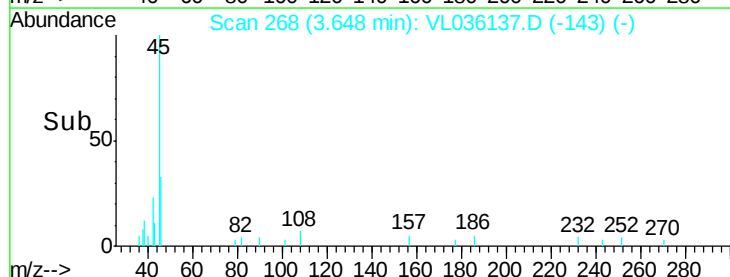
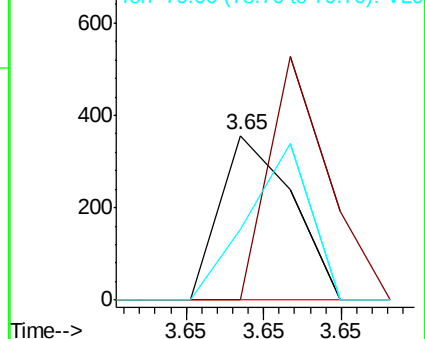
79 151.3 19.3 28.9#

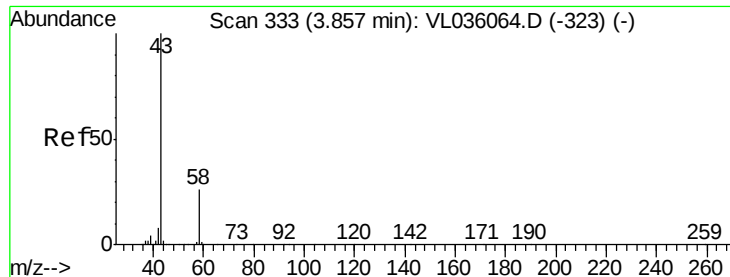


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.560 ppbv m

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL036137.D

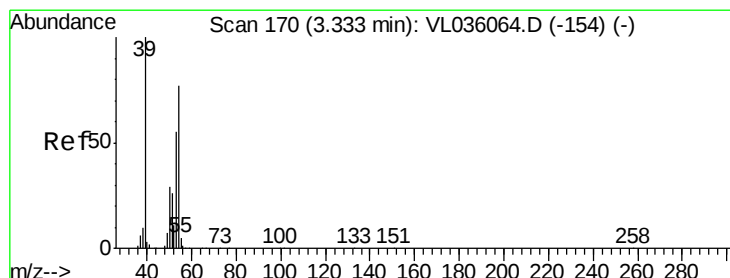
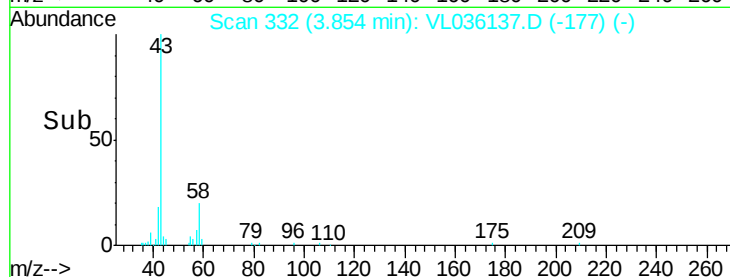
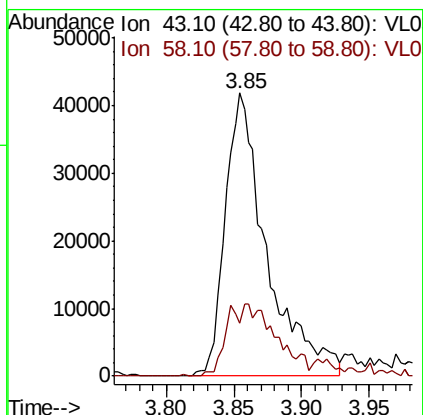
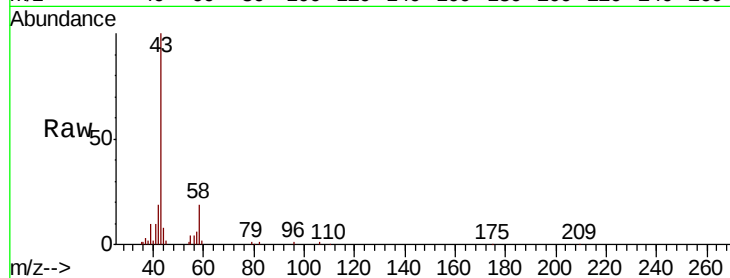
Acq: 10 Dec 2020 20:59

Tot Ion: 43 Resp: 89318

Ion Ratio Lower Upper

43 100

58 35.4 20.9 31.3#



#16

1,3-Butadiene

Concen: 0.018 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.02 min

Lab File: VL036137.D

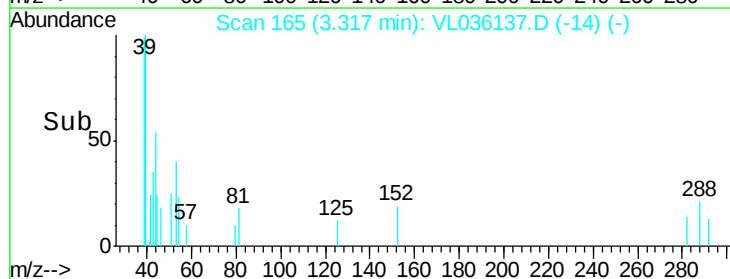
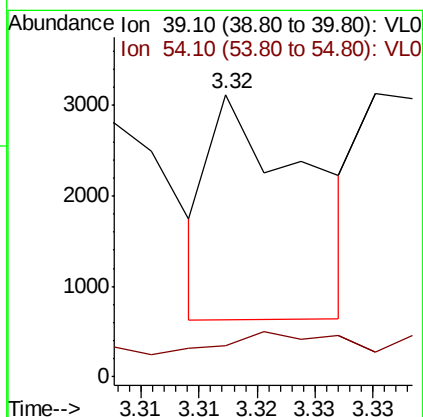
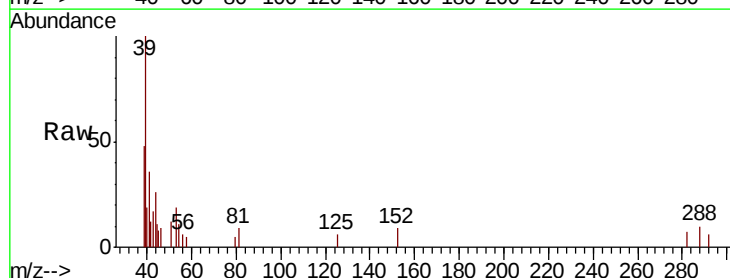
Acq: 10 Dec 2020 20:59

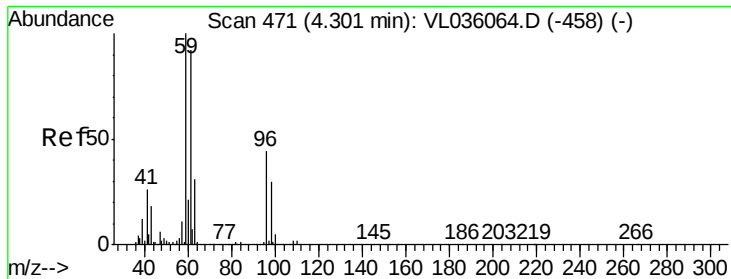
Tgt Ion: 39 Resp: 1437

Ion Ratio Lower Upper

39 100

54 0.0 62.1 93.1#





#17

tert-Butyl alcohol

Concen: 0.001 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL036137.D

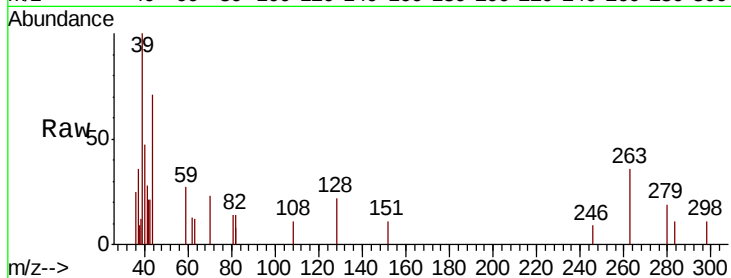
Acq: 10 Dec 2020 20:59

Tot Ion: 59 Resp: 167

Ion Ratio Lower Upper

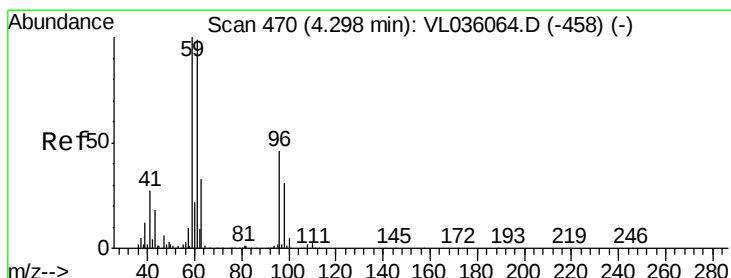
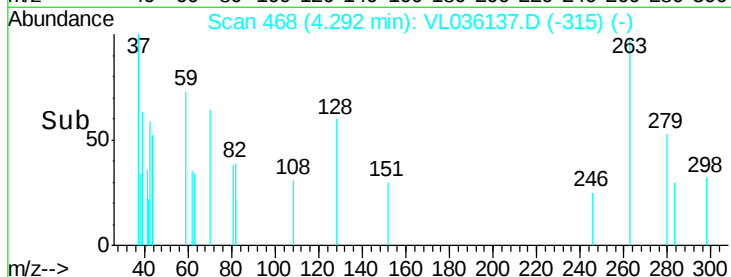
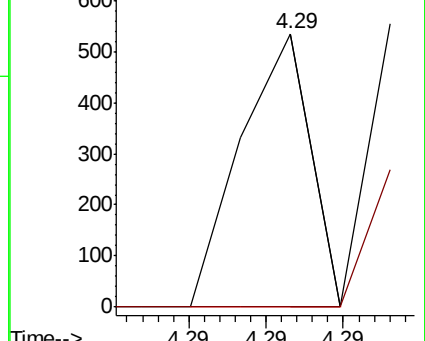
59 100

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: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

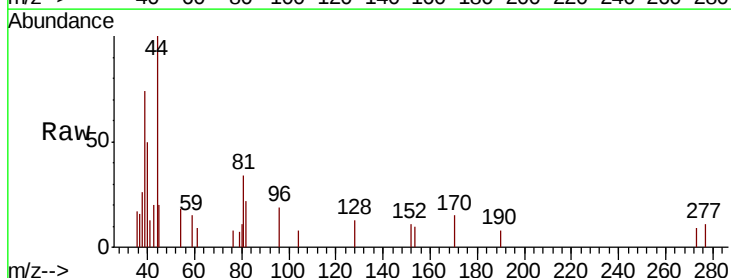
Tgt Ion: 96 Resp: 132

Ion Ratio Lower Upper

96 100

61 0.0 171.4 257.2#

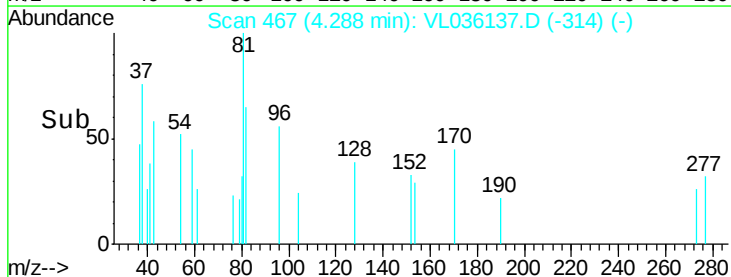
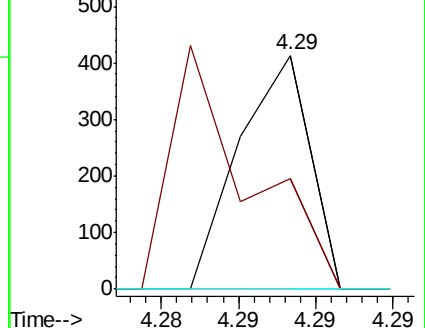
98 0.0 54.2 81.2#

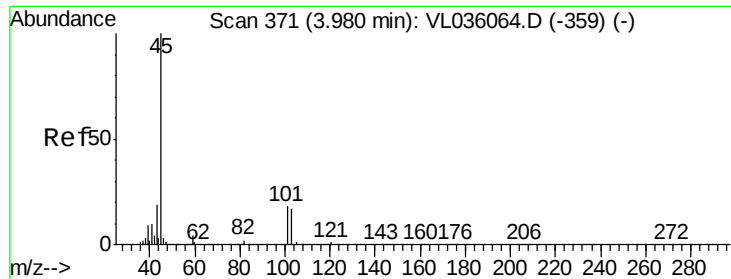


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.001 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.03 min

Lab File: VL036137.D

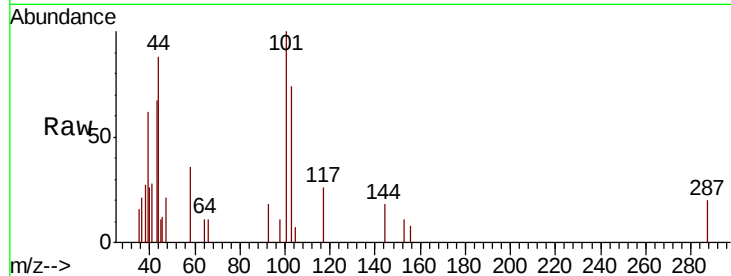
Acq: 10 Dec 2020 20:59

Tot Ion: 45 Resp: 134

Ion Ratio Lower Upper

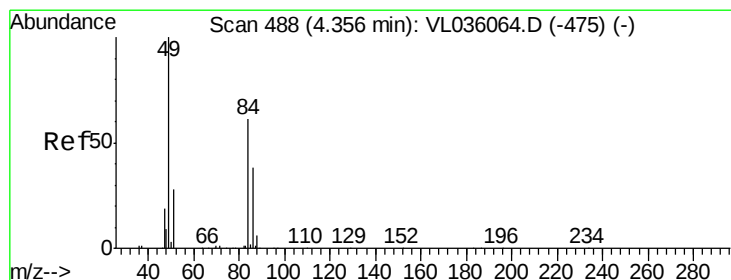
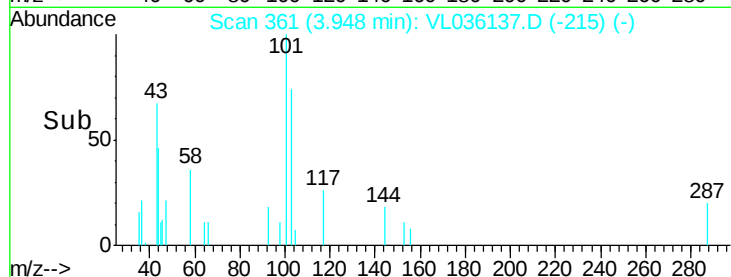
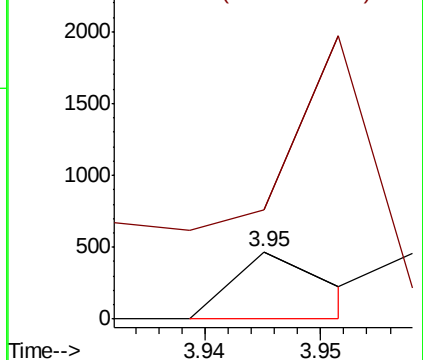
45 100

58 1135.1 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.398 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. -0.03 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion: 84 Resp: 26046

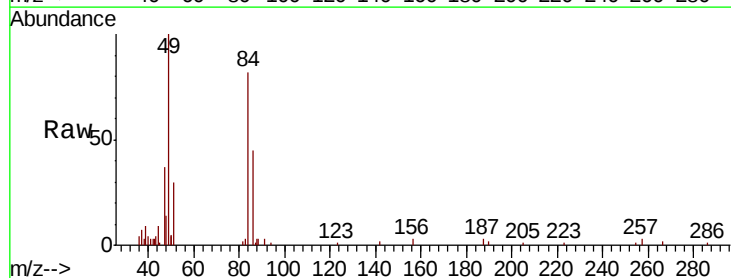
Ion Ratio Lower Upper

84 100

49 122.0 133.0 199.4#

51 36.5 38.9 58.3#

86 54.8 48.8 73.2

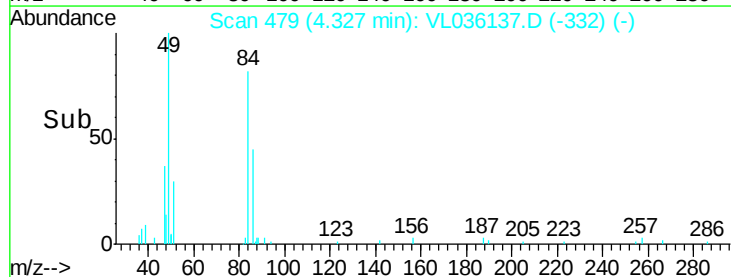
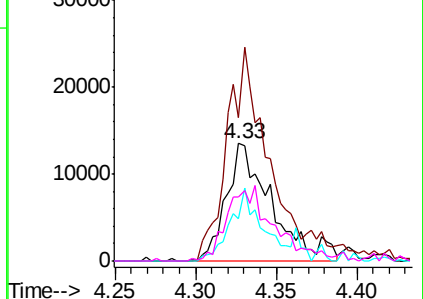


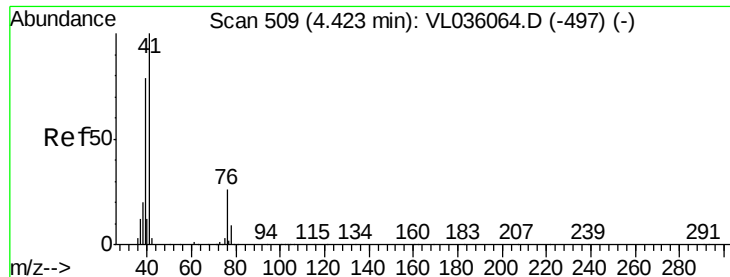
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allvl Chloride

Concen: 0.005 ppbv

RT: 4.39 min Scan# 498

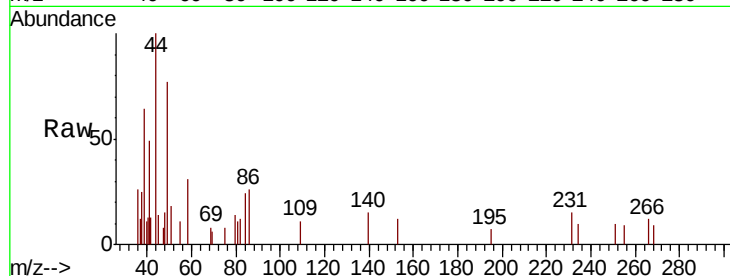
Delta R.T. -0.04 min

Lab File: VL036137.D

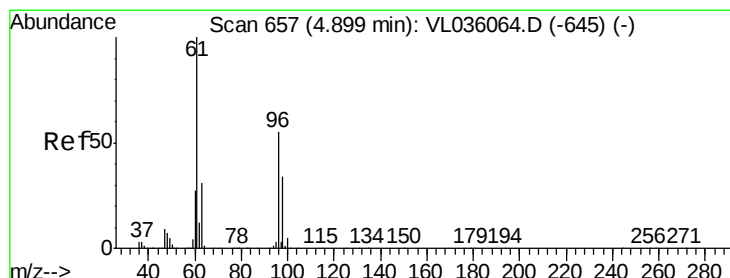
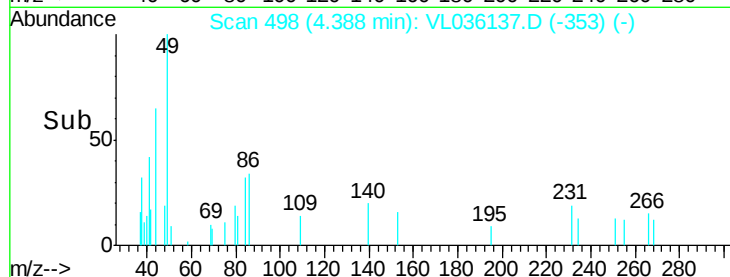
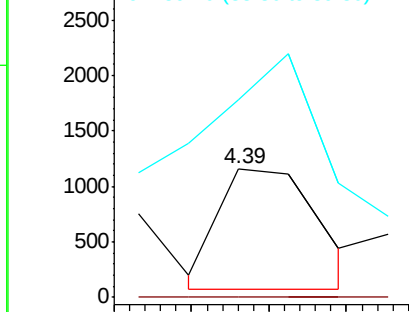
Acq: 10 Dec 2020 20:59

Tot Ion: 41 Resp: 478

| 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: 0.002 ppbv

RT: 4.86 min Scan# 645

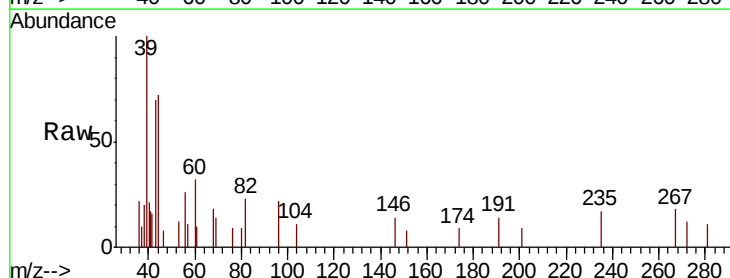
Delta R.T. -0.04 min

Lab File: VL036137.D

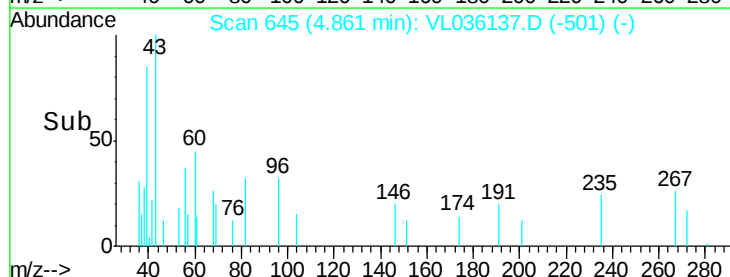
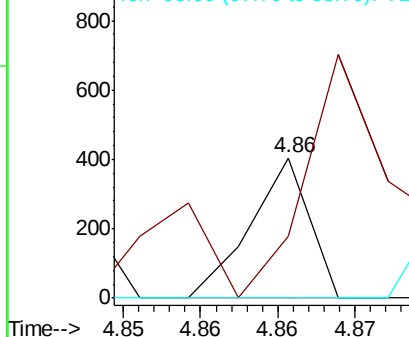
Acq: 10 Dec 2020 20:59

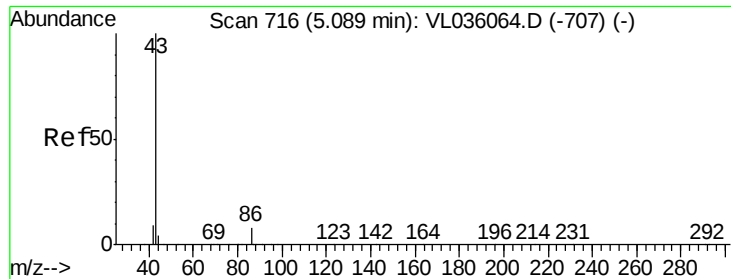
Tgt Ion: 96 Resp: 107

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 0.0   | 145.7 | 218.5# |
| 98  | 0.0   | 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: 0.003 ppbv

RT: 5.06 min Scan# 706

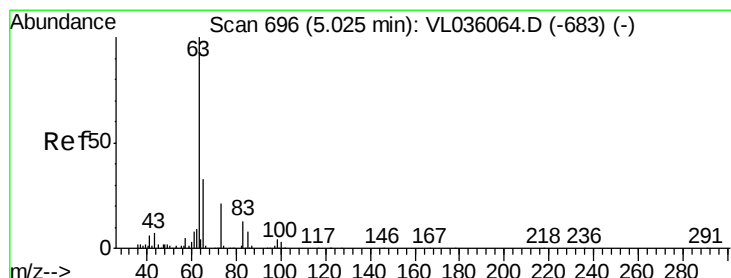
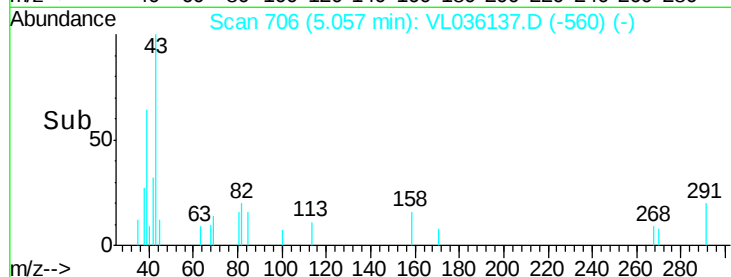
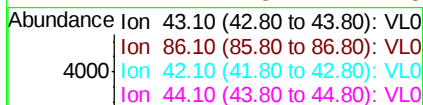
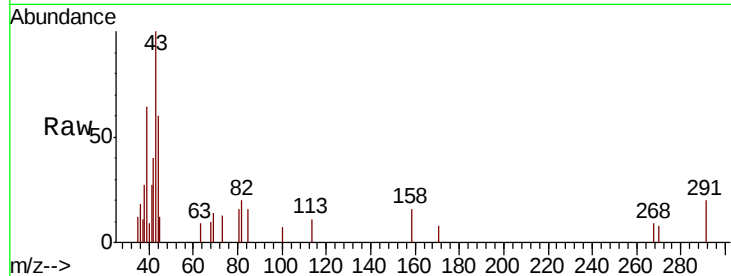
Delta R.T. -0.03 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tot Ion: 43 Resp: 727

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.0   | 5.0   | 7.4#  |
| 42  | 52.4  | 7.8   | 11.6# |
| 44  | 27.4  | 3.2   | 4.8#  |



#24

1,1-Dichloroethane

Concen: 0.003 ppbv

RT: 4.99 min Scan# 686

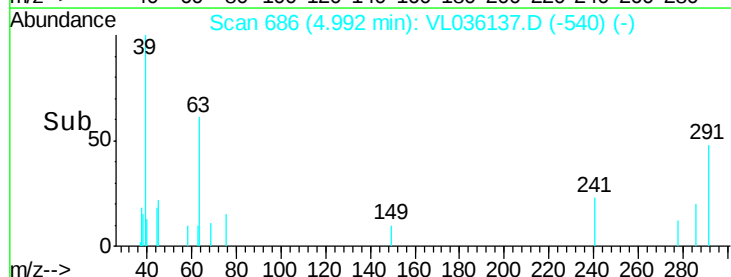
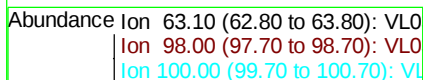
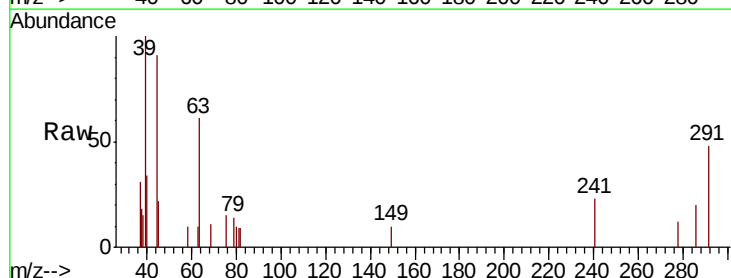
Delta R.T. -0.03 min

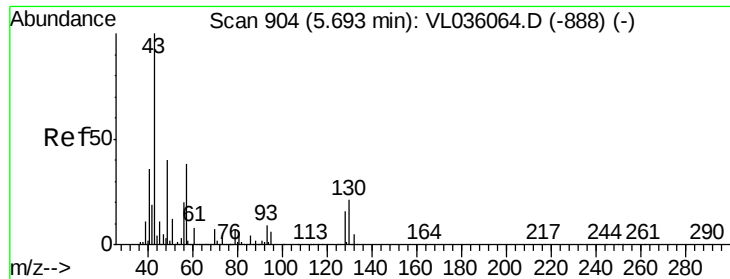
Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion: 63 Resp: 414

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 0.0   | 2.2   | 6.6#  |
| 100 | 0.0   | 1.5   | 4.4#  |





#25

Ethyl Acetate

Concen: 0.008 ppbv

RT: 5.66 min Scan# 893

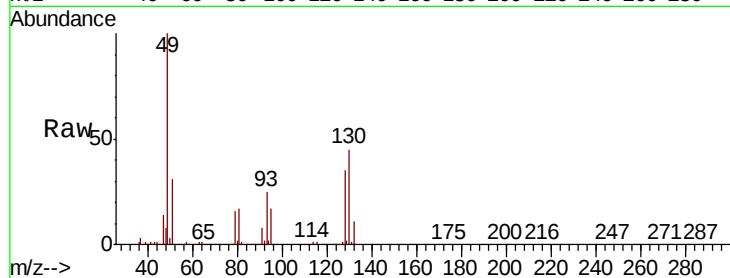
Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tot Ion: 43 Resp: 2403

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 22.2  | 8.2   | 12.4# |
| 61  | 13.1  | 7.4   | 11.2# |
| 70  | 22.7  | 5.4   | 8.0#  |



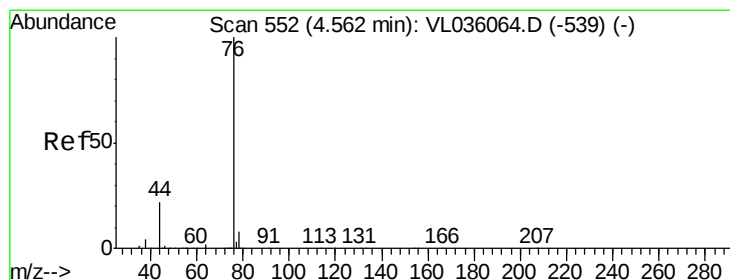
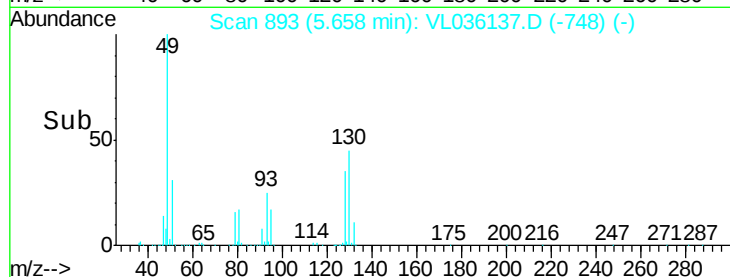
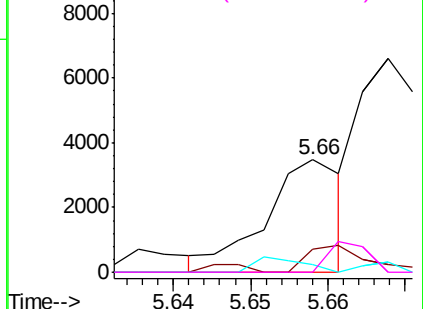
Abundance

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



#27

Carbon Disulfide

Concen: 0.001 ppbv

RT: 4.53 min Scan# 542

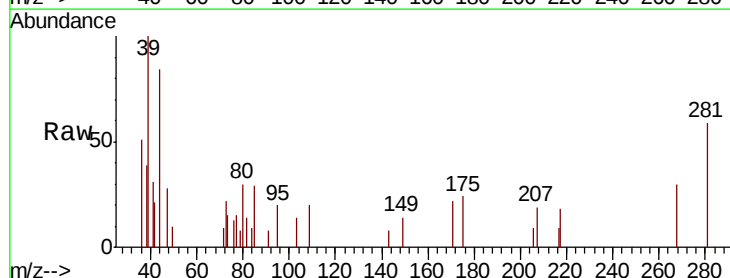
Delta R.T. -0.03 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion: 76 Resp: 84

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

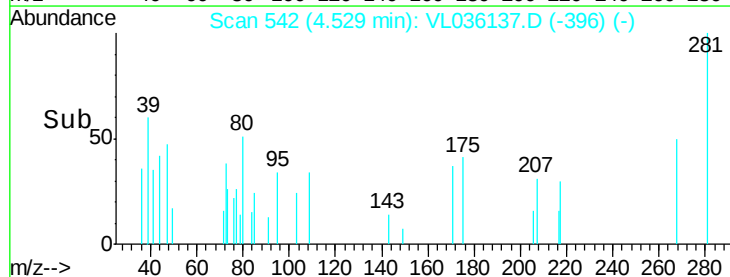
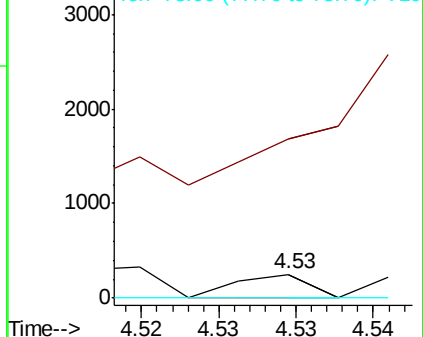


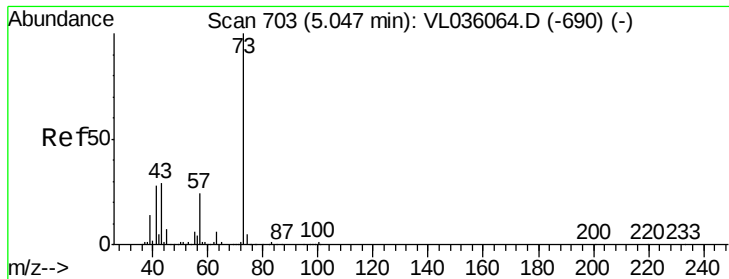
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

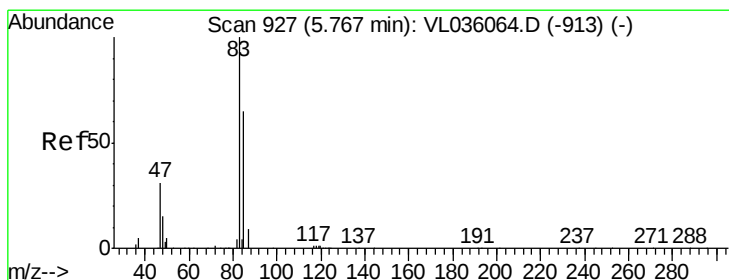
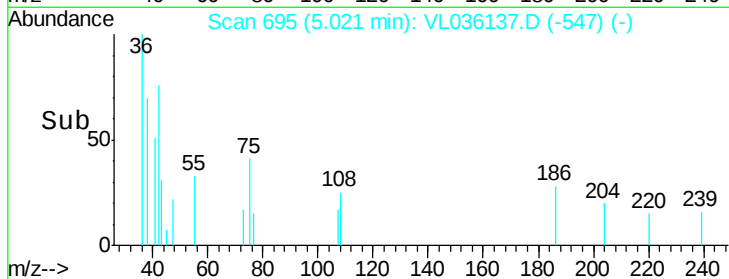
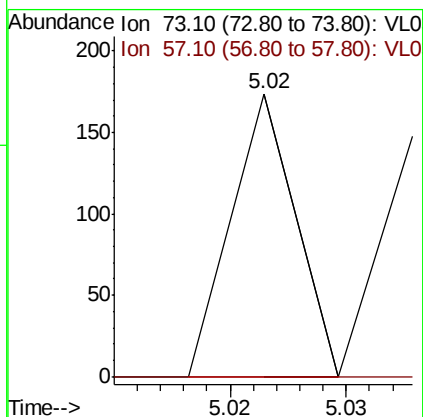
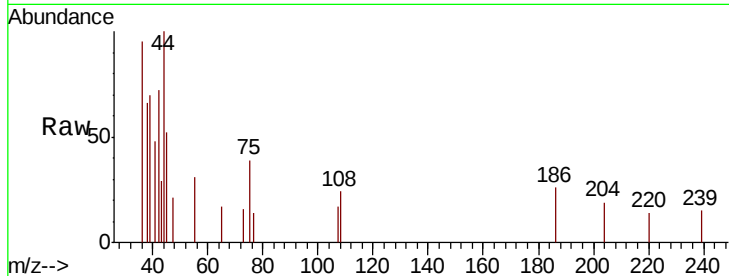
Ion 78.00 (77.70 to 78.70): VL0





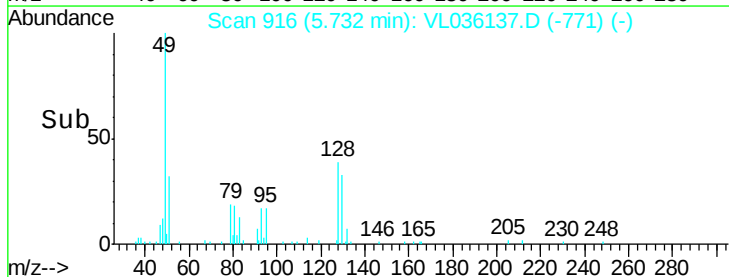
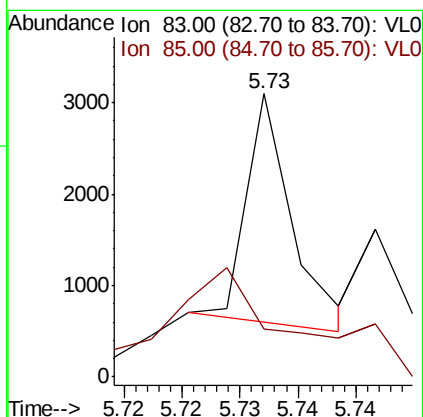
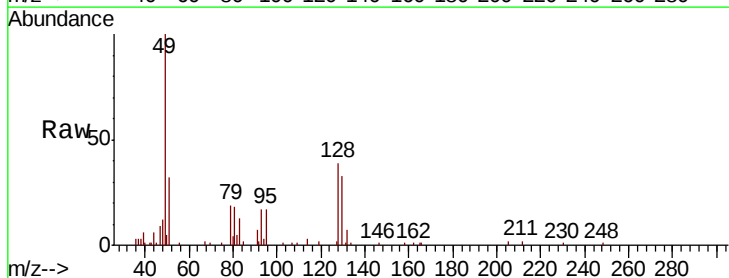
#28  
Methvl tert-Butvl Ether  
Concen: 0.000 ppbv  
RT: 5.02 min Scan# 695  
Delta R.T. -0.03 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

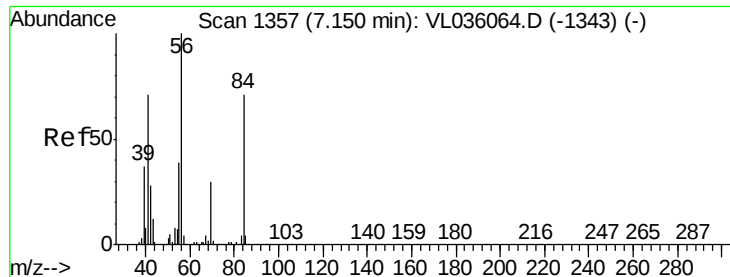
Tot Ion: 73 Resp: 33  
Ion Ratio Lower Upper  
73 100  
57 0.0 19.2 28.8#



#29  
Chloroform  
Concen: 0.004 ppbv  
RT: 5.73 min Scan# 916  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

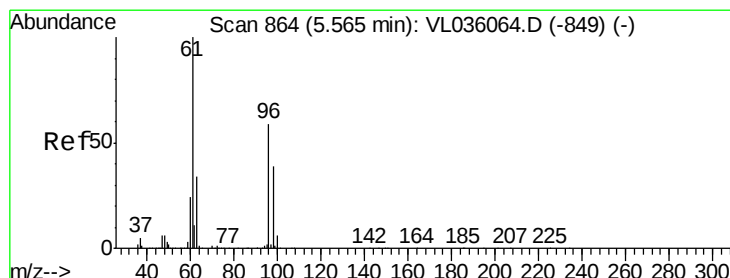
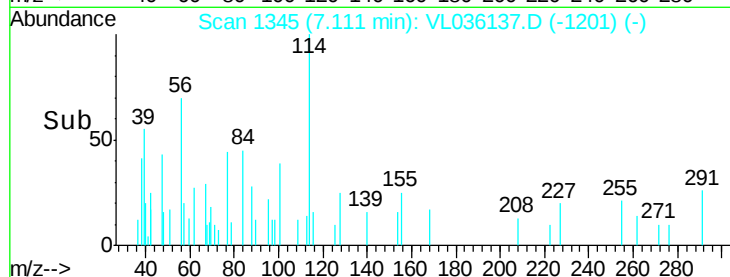
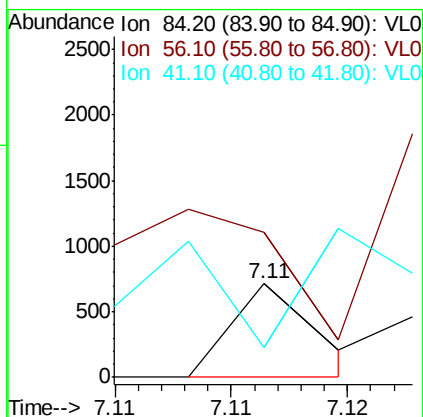
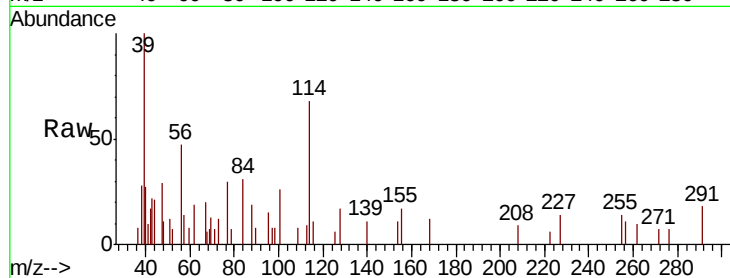
Tgt Ion: 83 Resp: 662  
Ion Ratio Lower Upper  
83 100  
85 4.1 51.8 77.6#





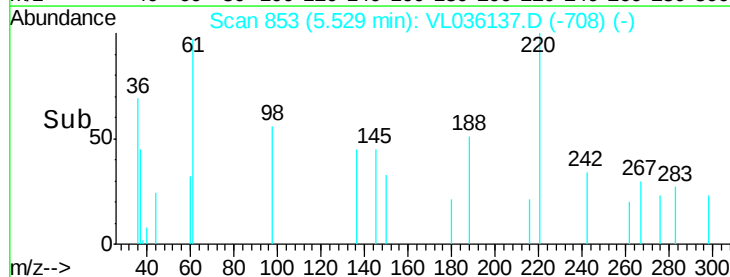
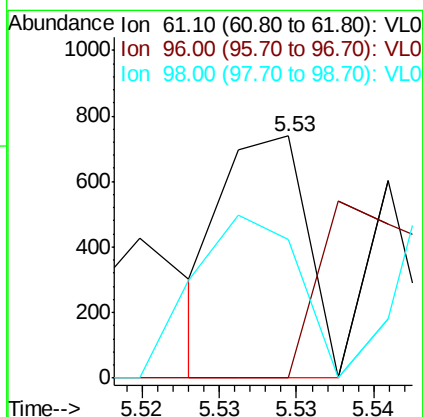
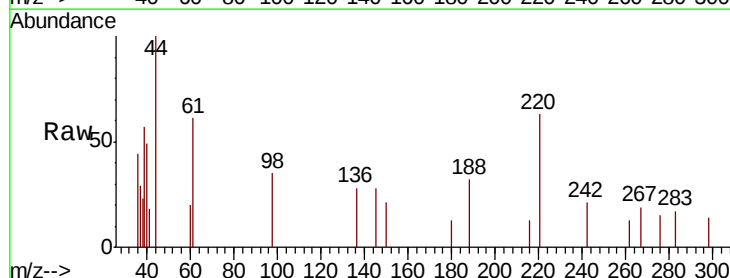
#30  
Cvclohexane  
Concen: 0.002 ppbv  
RT: 7.11 min Scan# 1345  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

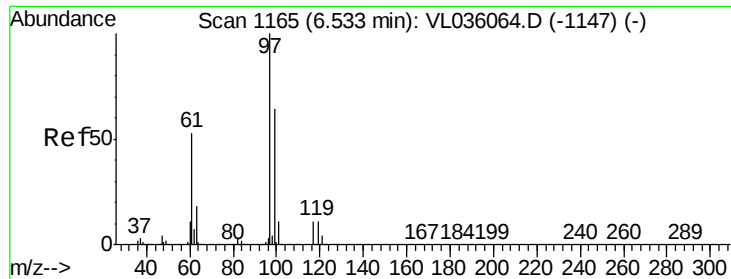
Tot Ion: 84 Resp: 177  
Ion Ratio Lower Upper  
84 100  
56 0.0 128.0 192.0#  
41 0.0 81.3 121.9#



#31  
cis-1,2-Dichloroethene  
Concen: 0.002 ppbv  
RT: 5.53 min Scan# 853  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

Tgt Ion: 61 Resp: 277  
Ion Ratio Lower Upper  
61 100  
96 0.0 47.3 70.9#  
98 57.2 31.4 47.0#





#32

1,1,1-Trichloroethane

Concen: 0.002 ppbv

RT: 6.49 min Scan# 1151

Delta R.T. -0.05 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

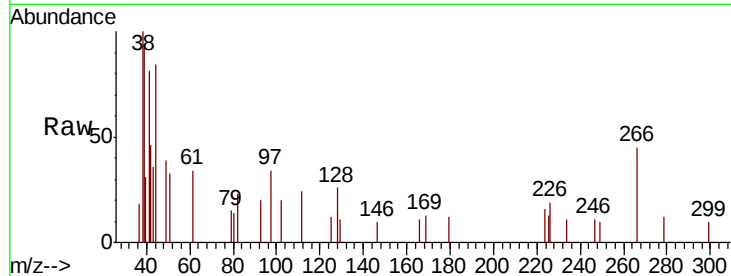
Tot Ion: 97 Resp: 308

Ion Ratio Lower Upper

97 100

99 0.0 52.4 78.6#

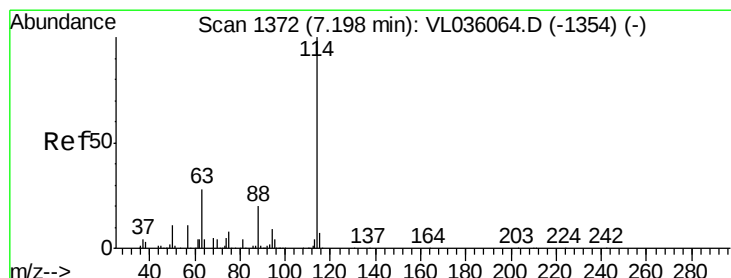
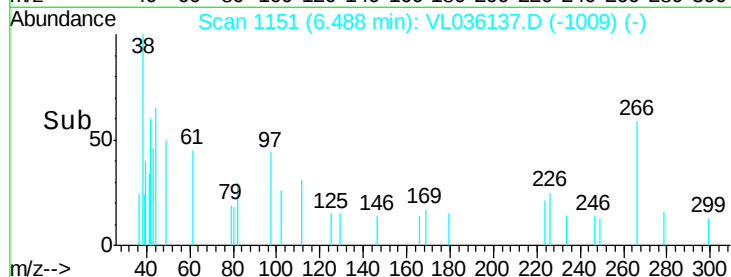
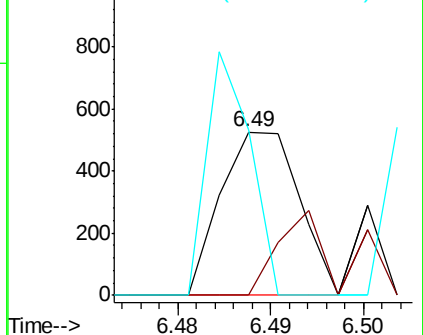
61 0.0 43.4 65.0#



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

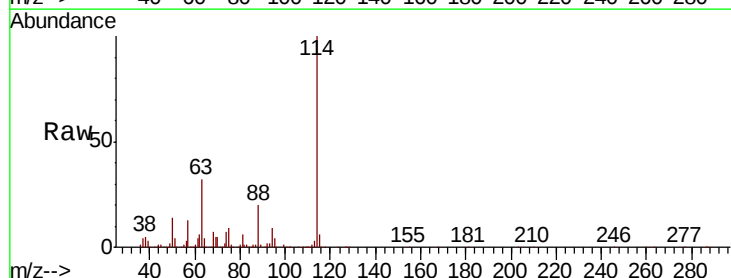
Tgt Ion: 114 Resp: 2692070

Ion Ratio Lower Upper

114 100

63 32.7 23.6 35.4

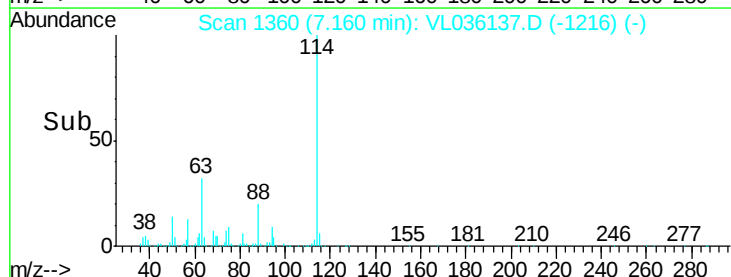
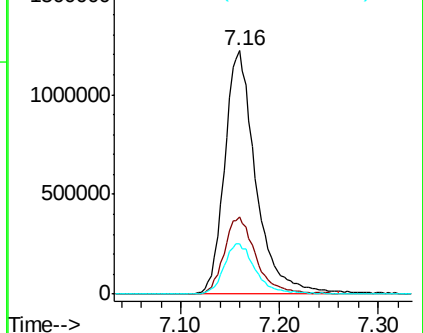
88 21.0 15.8 23.6

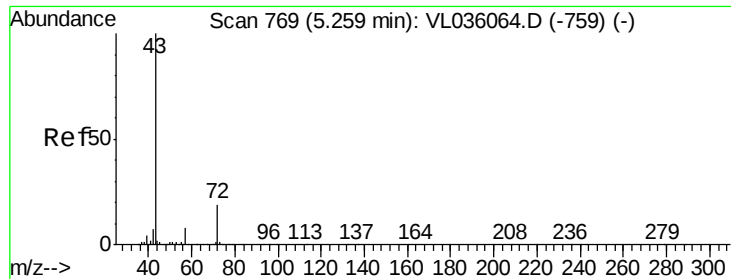


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

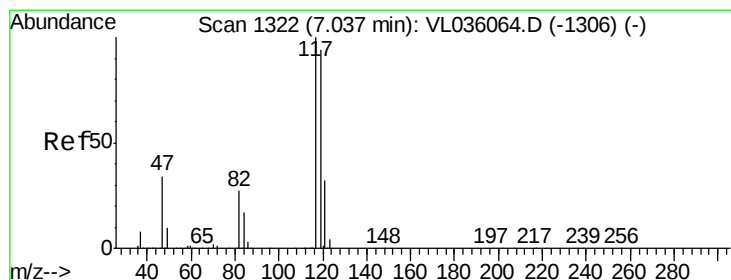
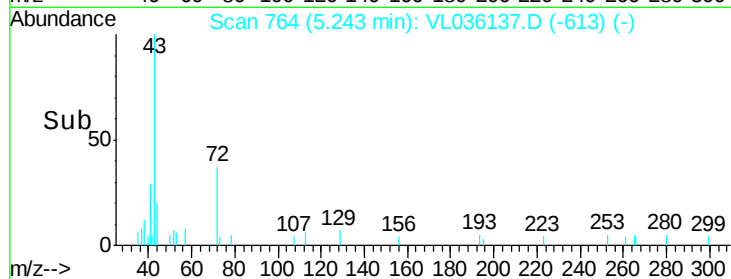
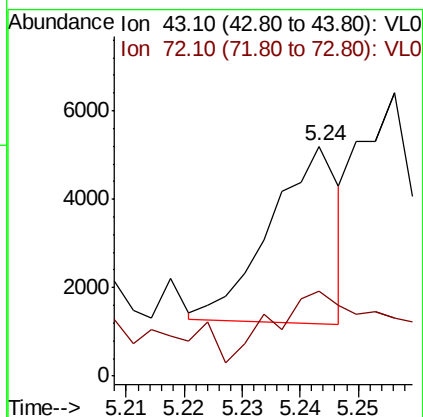
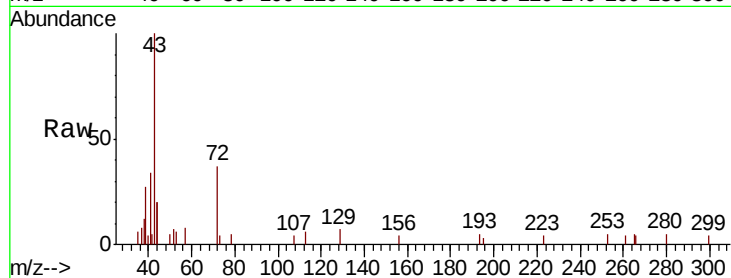
Ion 88.10 (87.80 to 88.80): VL0





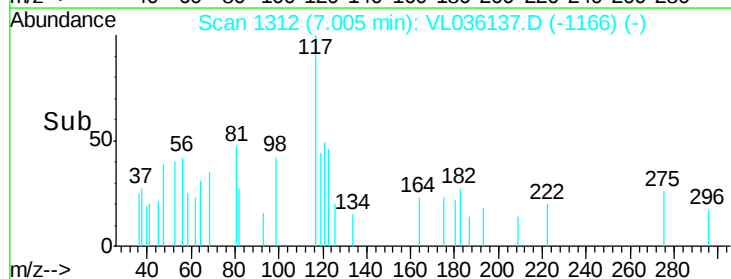
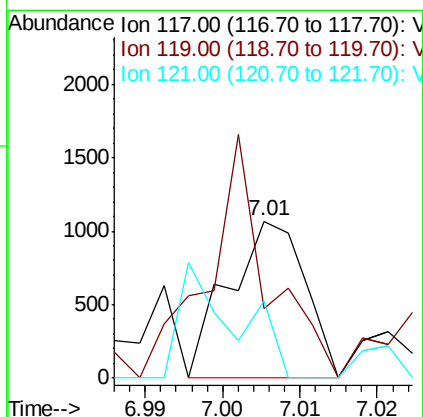
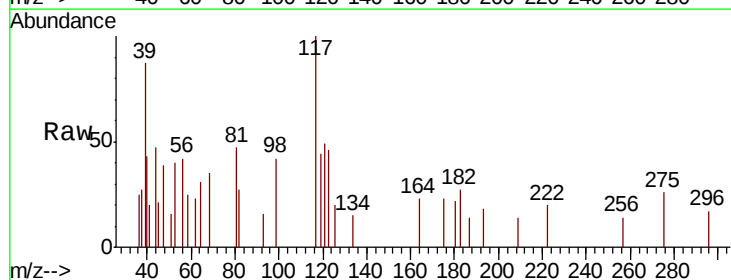
#34  
2-Butanone  
Concen: 0.018 ppbv  
RT: 5.24 min Scan# 764  
Delta R.T. -0.02 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

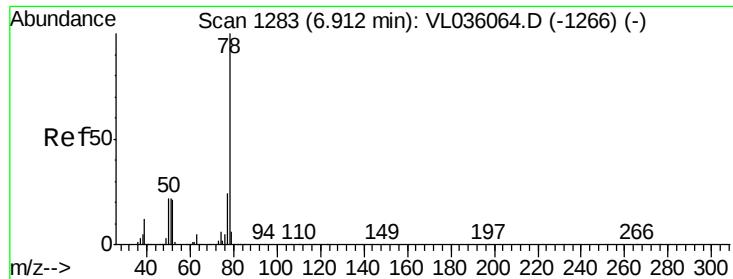
Tot Ion: 43 Resp: 3273  
Ion Ratio Lower Upper  
43 100  
72 130.5 16.5 24.7#



#35  
Carbon Tetrachloride  
Concen: 0.005 ppbv  
RT: 7.01 min Scan# 1312  
Delta R.T. -0.03 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

Tgt Ion: 117 Resp: 737  
Ion Ratio Lower Upper  
117 100  
119 44.0 75.1 112.7#  
121 49.5 25.6 38.4#





#36

Benzene

Concen: 0.016 ppbv

RT: 6.88 min Scan# 1272

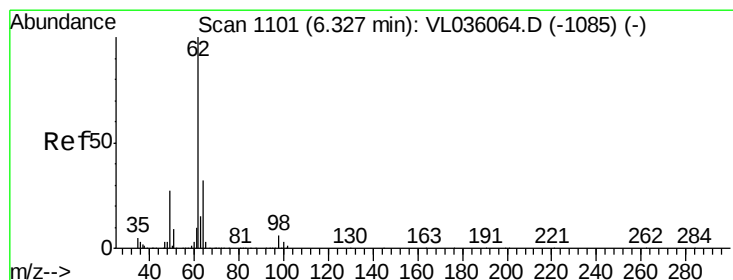
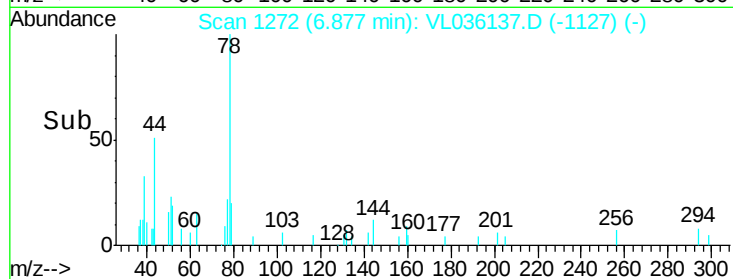
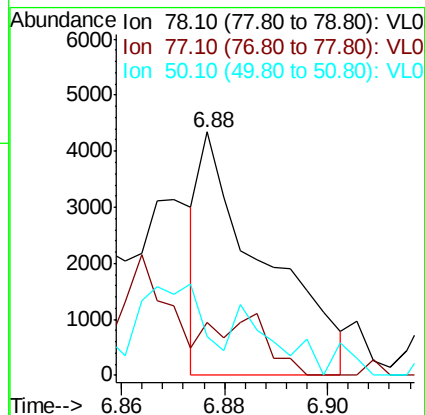
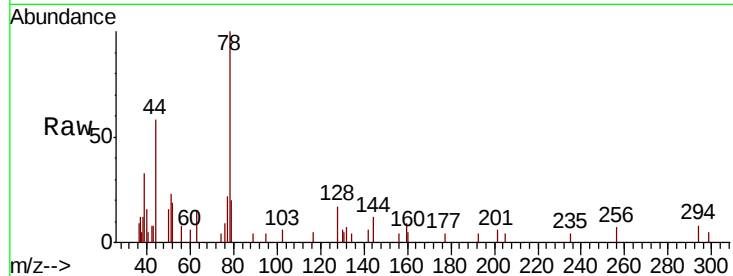
Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tot Ion: 78 Resp: 3684

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 26.4  | 19.4  | 29.2  |
| 50  | 3.4   | 17.8  | 26.8# |



#37

1,2-Dichloroethane

Concen: 0.001 ppbv

RT: 6.30 min Scan# 1092

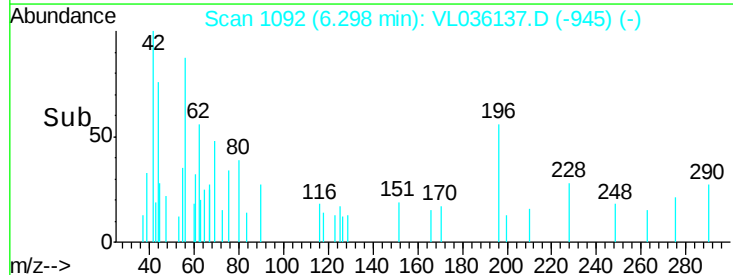
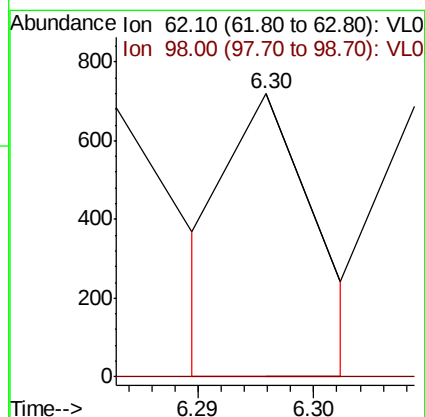
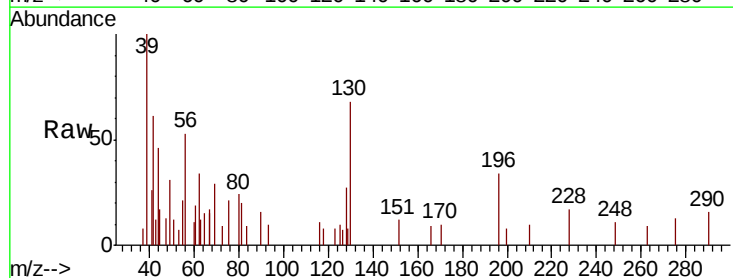
Delta R.T. -0.03 min

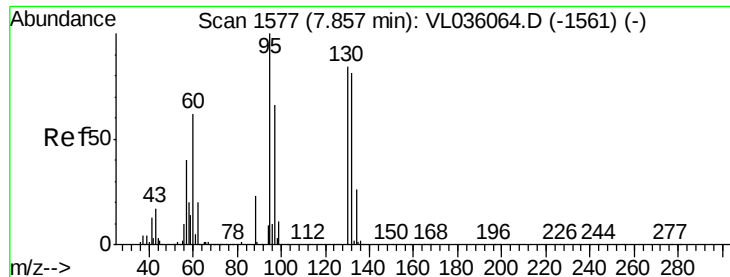
Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion: 62 Resp: 186

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 98  | 0.0   | 4.6   | 7.0#  |





#38

Trichloroethene

Concen: 0.001 ppbv

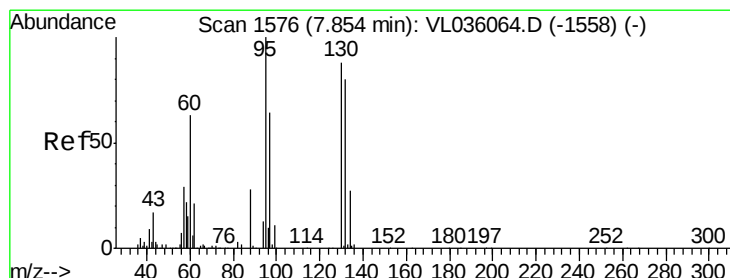
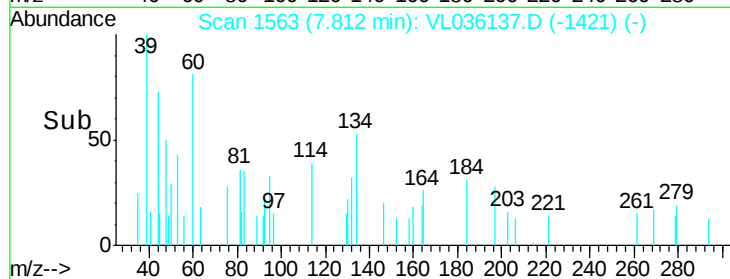
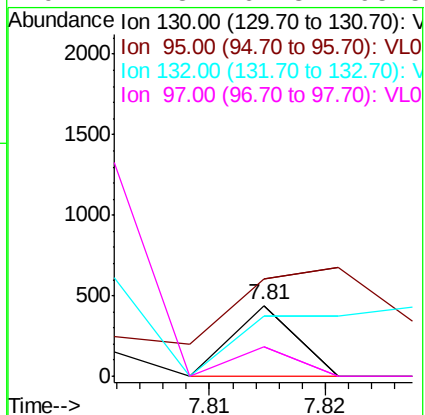
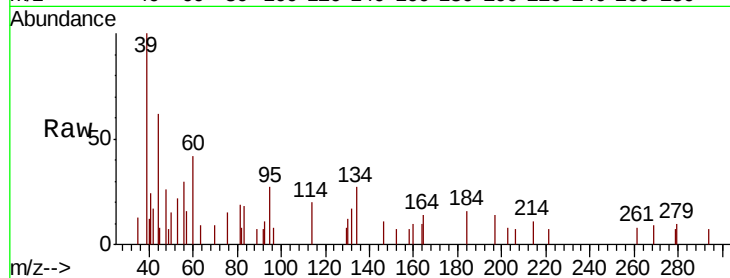
RT: 7.81 min Scan# 1563

Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 130   | Resp: | 85     |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 92.7  | 95.2  | 142.8# |
| 132      | 85.6  | 76.9  | 115.3  |
| 97       | 41.8  | 62.3  | 93.5#  |



#40

1,4-Dioxane

Concen: 0.006 ppbv

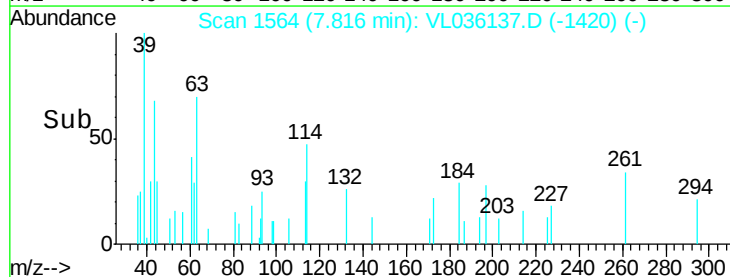
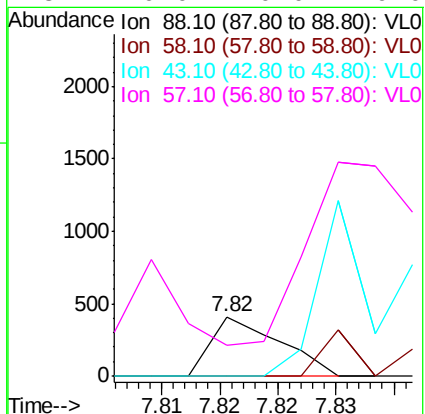
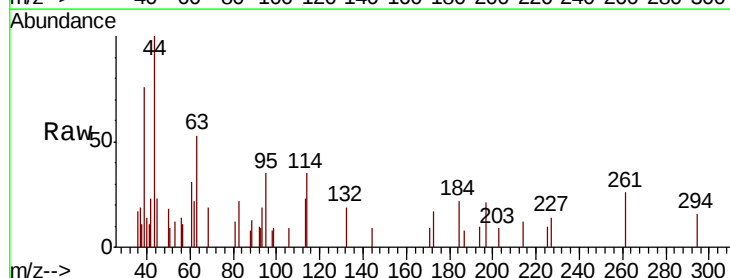
RT: 7.82 min Scan# 1564

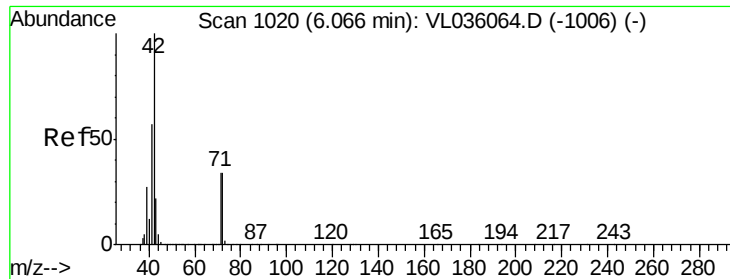
Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 88    | Resp: | 167    |
| 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    |





#41

Tetrahydrofuran

Concen: 0.001 ppbv

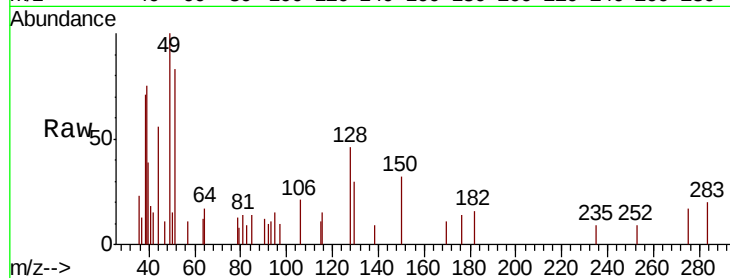
RT: 6.04 min Scan# 1013

Delta R.T. -0.02 min

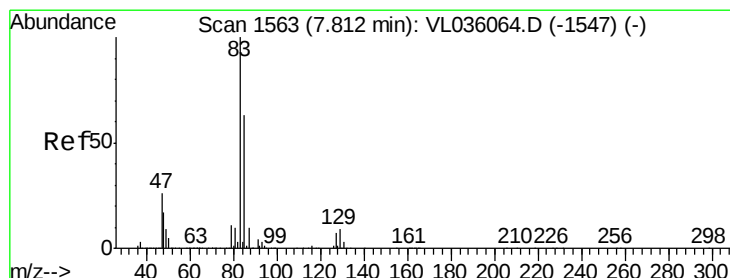
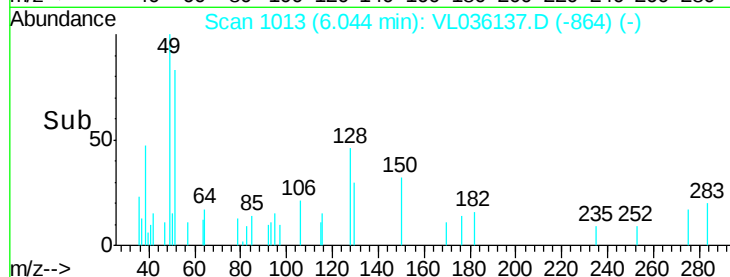
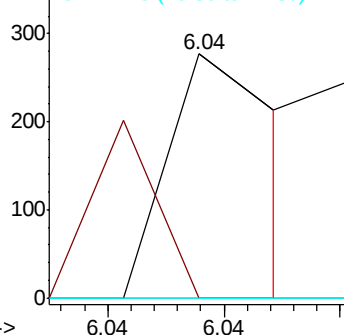
Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 95    |
| 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

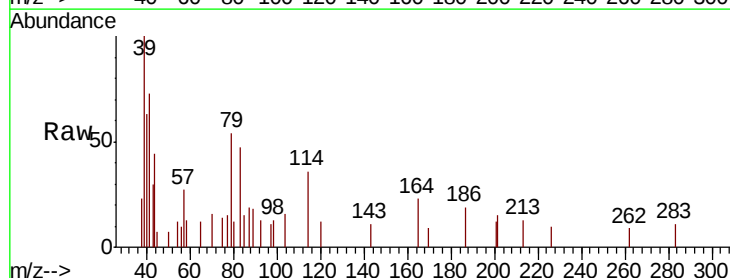
RT: 7.77 min Scan# 1549

Delta R.T. -0.04 min

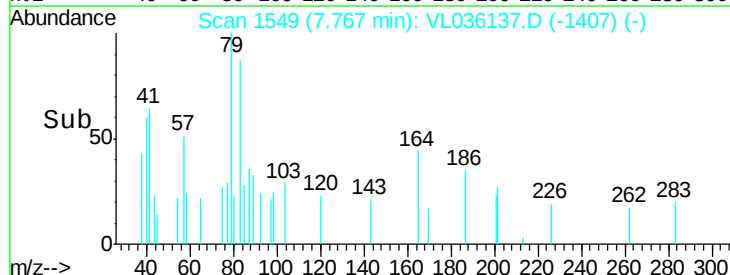
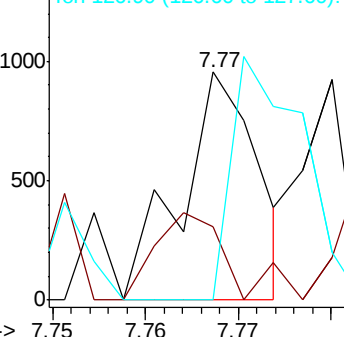
Lab File: VL036137.D

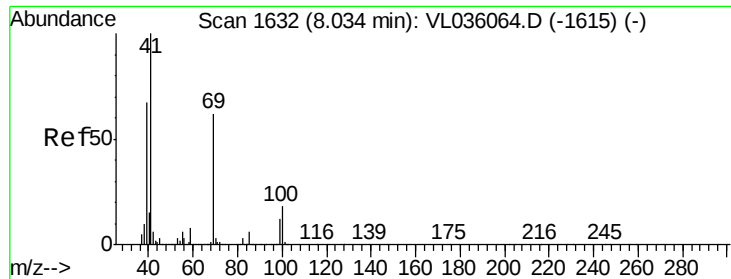
Acq: 10 Dec 2020 20:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 549   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 32.3  | 50.2  | 75.2# |
| 127      | 0.0   | 5.5   | 8.3#  |



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





#43

Methyl Methacrylate

Concen: 0.000 ppbv

RT: 8.00 min Scan# 1620

Delta R.T. -0.04 min

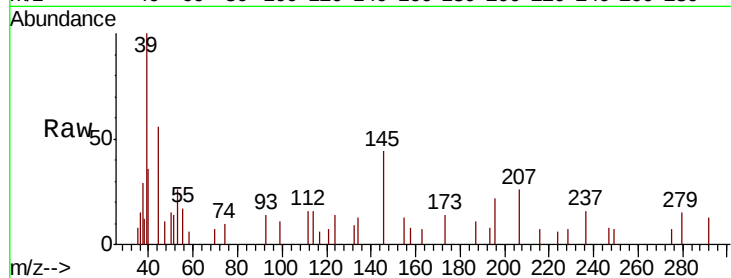
Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tot Ion: 69 Resp: 32

Ion Ratio Lower Upper

|     |        |       |        |
|-----|--------|-------|--------|
| 69  | 100    |       |        |
| 41  | 4393.8 | 133.0 | 199.6# |
| 100 | 0.0    | 25.4  | 38.0#  |

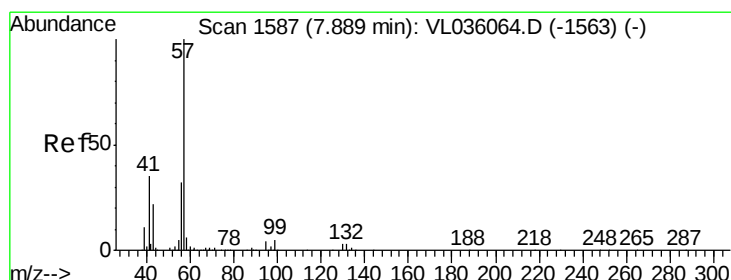
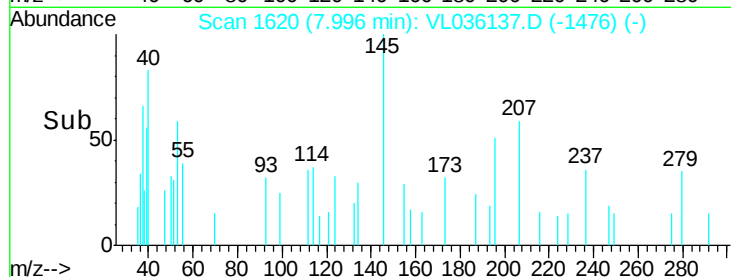
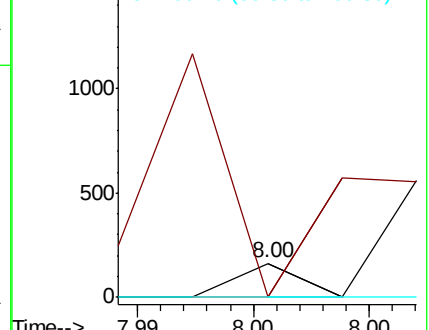


Abundance

Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.009 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.04 min

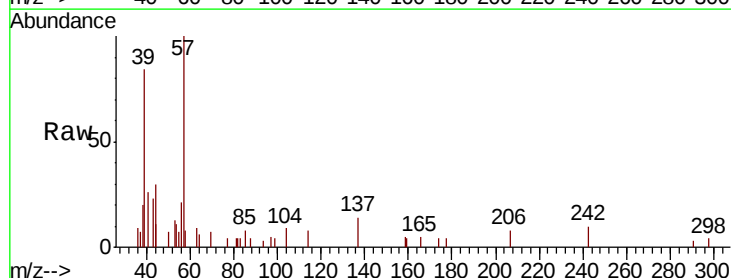
Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion: 57 Resp: 3761

Ion Ratio Lower Upper

|    |     |      |       |
|----|-----|------|-------|
| 57 | 100 |      |       |
| 41 | 0.0 | 28.9 | 43.3# |
| 56 | 0.0 | 25.3 | 37.9# |

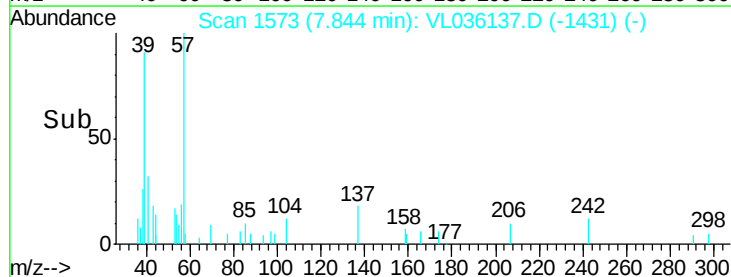
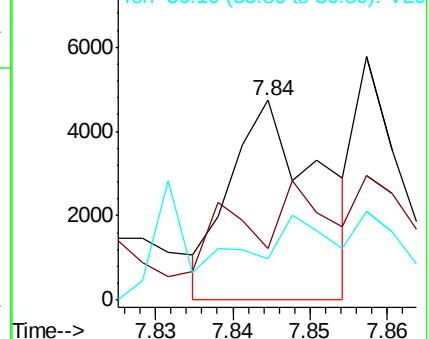


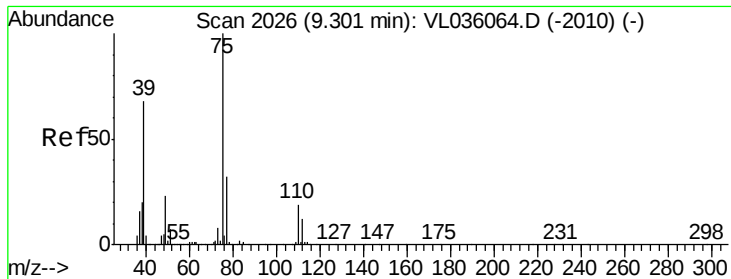
Abundance

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: 9.23 min Scan# 2003

Delta R.T. -0.07 min

Lab File: VL036137.D

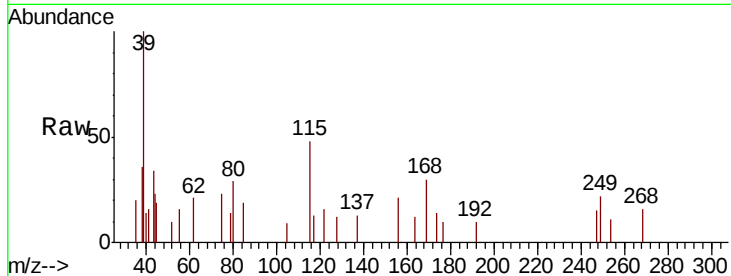
Acq: 10 Dec 2020 20:59

Tot Ion: 75 Resp: 204

Ion Ratio Lower Upper

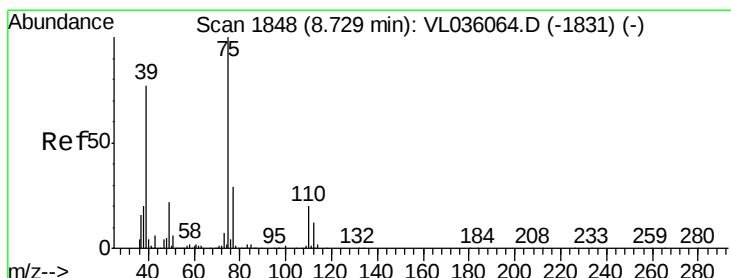
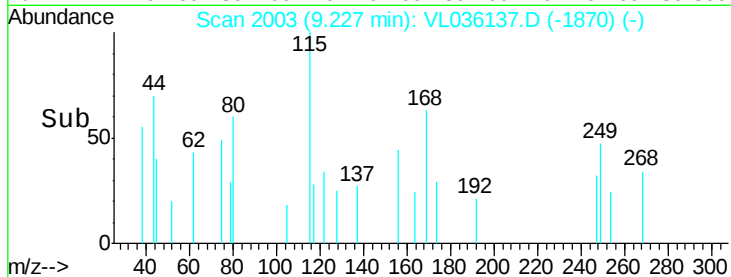
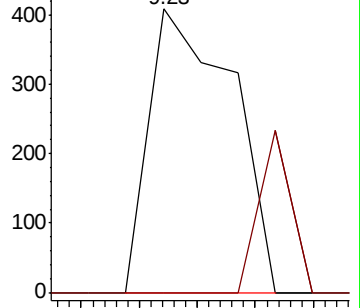
75 100

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: VL036137.D

Acq: 10 Dec 2020 20:59

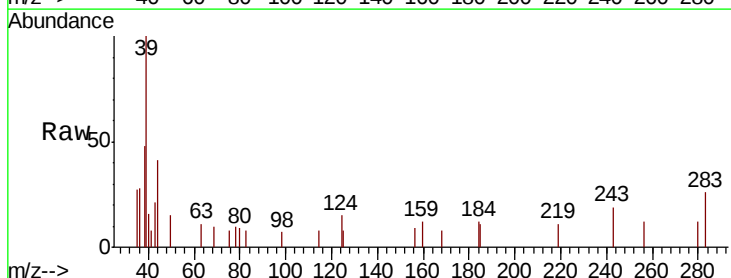
Tgt Ion: 75 Resp: 33

Ion Ratio Lower Upper

75 100

39 316.0 61.6 92.4#

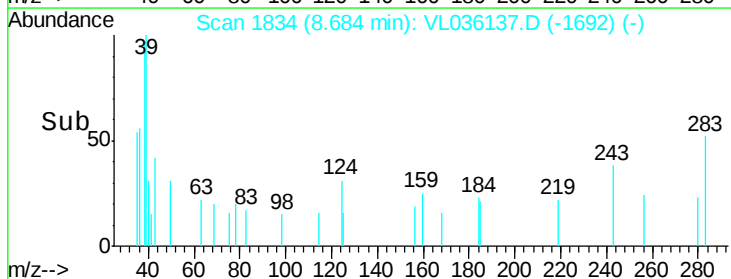
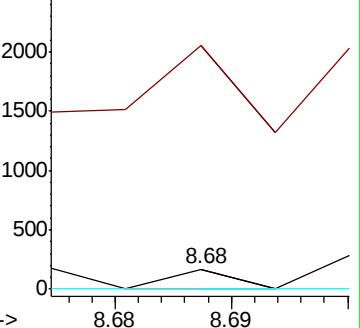
77 0.0 23.0 34.6#

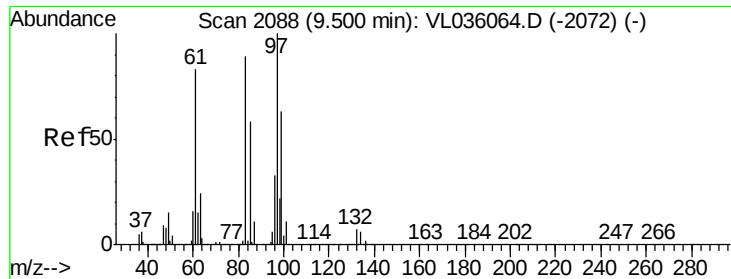


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

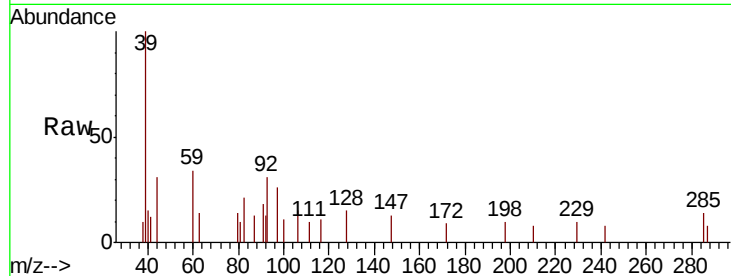
Ion 77.00 (76.70 to 77.70): VL0



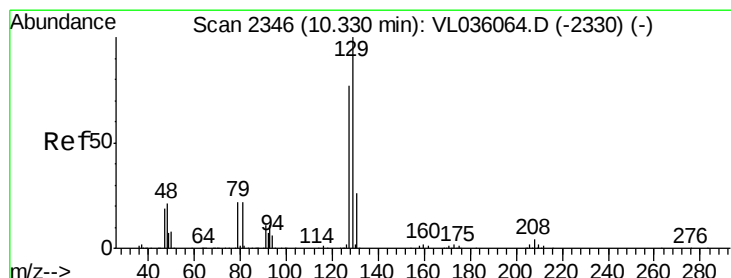
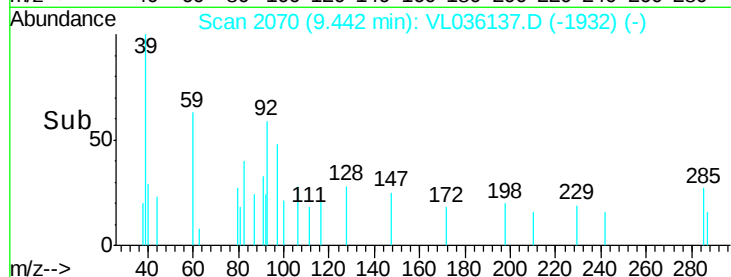
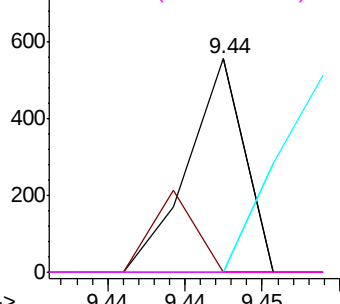


#47  
 1,1,2-Trichloroethane  
 Concen: 0.002 ppbv  
 RT: 9.44 min Scan# 2070  
 Delta R.T. -0.06 min  
 Lab File: VL036137.D  
 Acq: 10 Dec 2020 20:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 140    |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 0.0   | 71.4  | 107.2# |
| 85       | 0.0   | 46.6  | 70.0#  |
| 99       | 0.0   | 50.7  | 76.1#  |

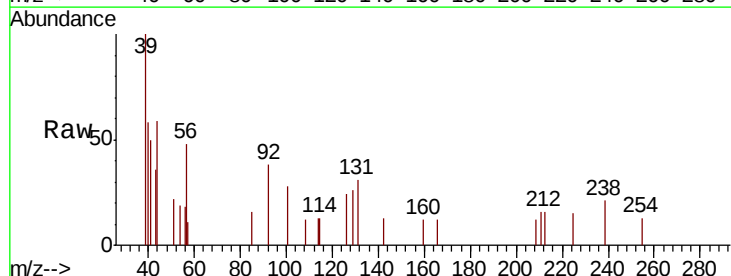


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

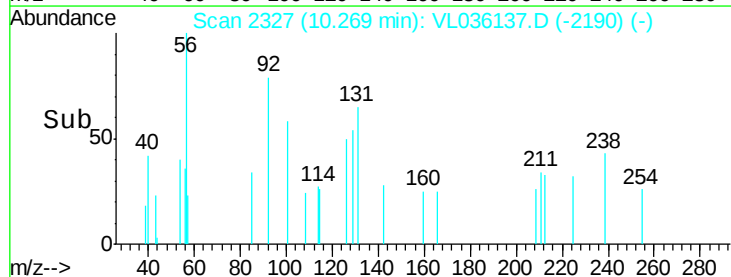
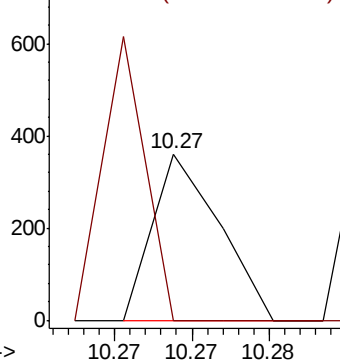


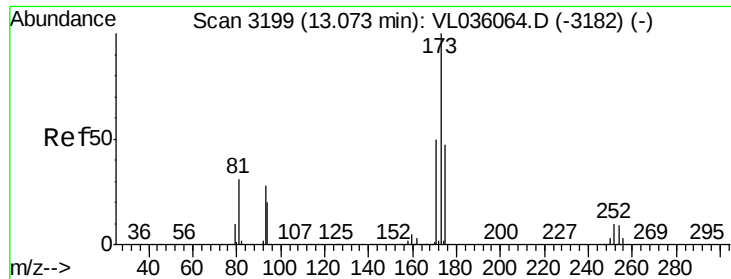
#48  
 Dibromochloromethane  
 Concen: 0.001 ppbv  
 RT: 10.27 min Scan# 2327  
 Delta R.T. -0.06 min  
 Lab File: VL036137.D  
 Acq: 10 Dec 2020 20:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 108   |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 88.0  | 39.0  | 117.0 |



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.003 ppbv

RT: 13.01 min Scan# 3178

Delta R.T. -0.07 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

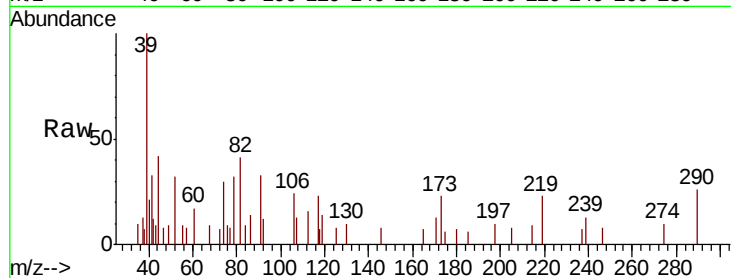
Tot Ion:173 Resp: 281

Ion Ratio Lower Upper

173 100

175 63.0 39.8 59.6#

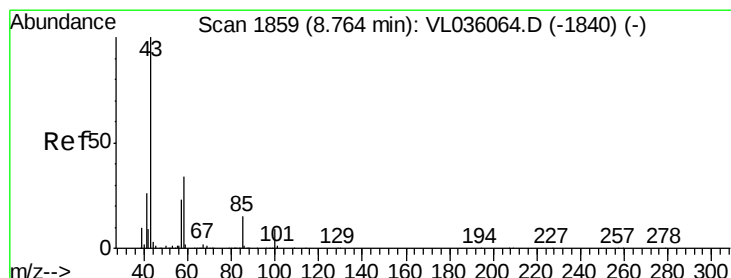
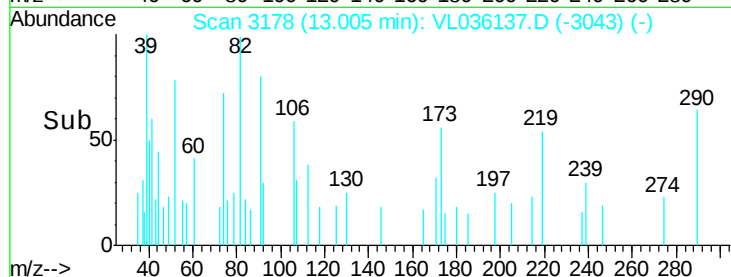
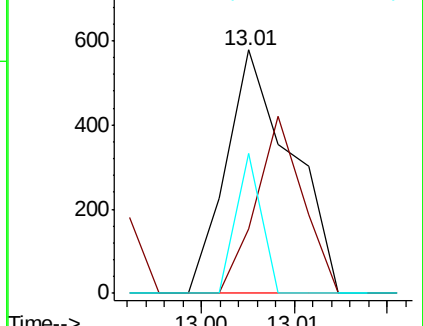
171 0.0 42.5 63.7#



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



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.03 min

Lab File: VL036137.D

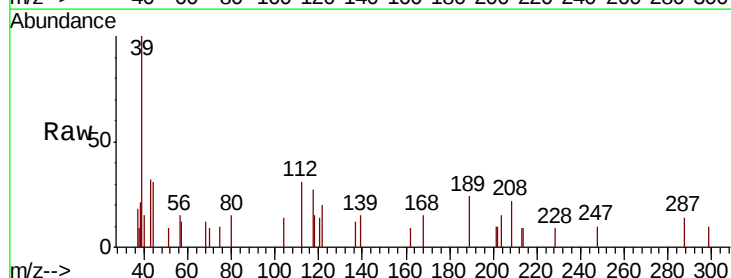
Acq: 10 Dec 2020 20:59

Tgt Ion: 43 Resp: 294

Ion Ratio Lower Upper

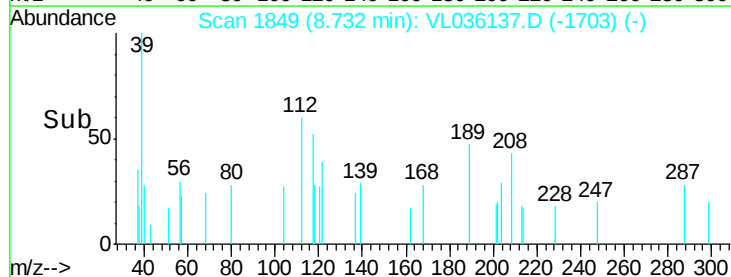
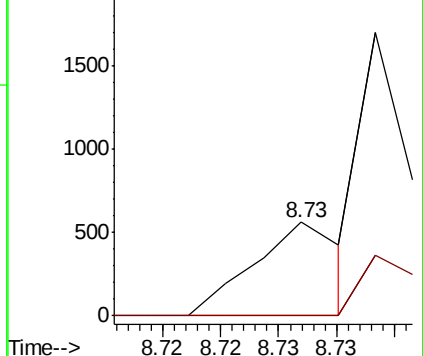
43 100

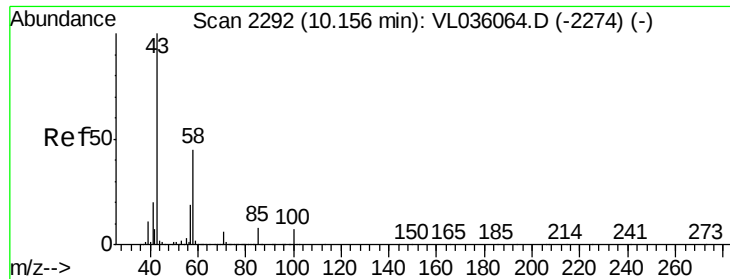
58 0.0 27.4 41.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

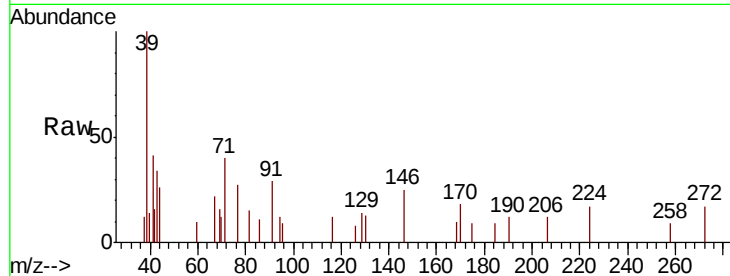
Ion 58.10 (57.80 to 58.80): VL0



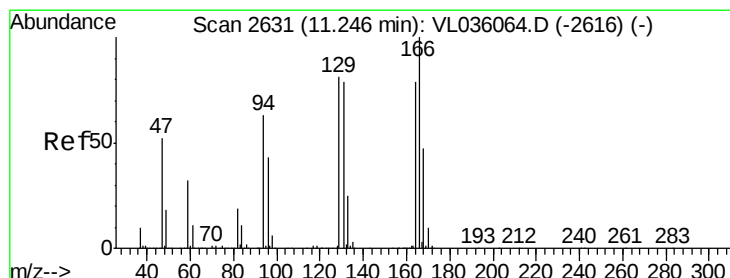
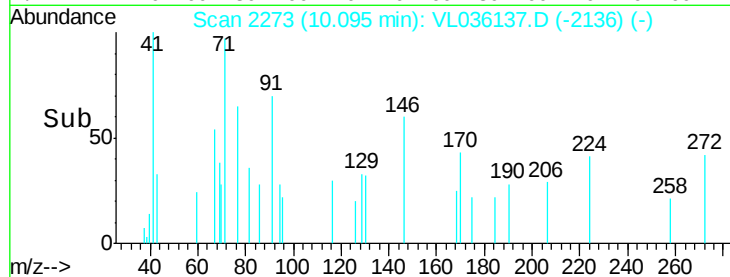
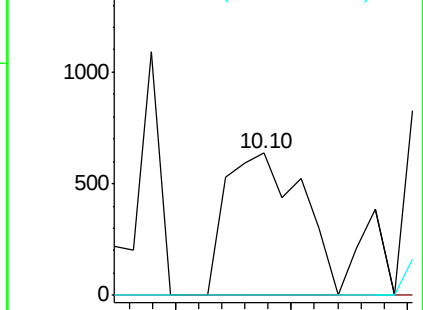


#51  
2-Hexanone  
Concen: 0.003 ppbv  
RT: 10.10 min Scan# 2273  
Delta R.T. -0.06 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 583   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 38.7  | 58.1# |
| 98       | 0.0   | 0.1   | 0.1#  |

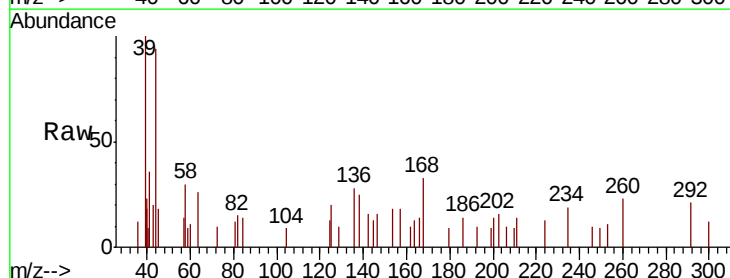


Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0

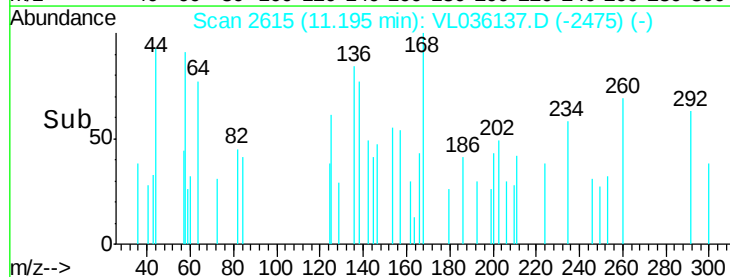
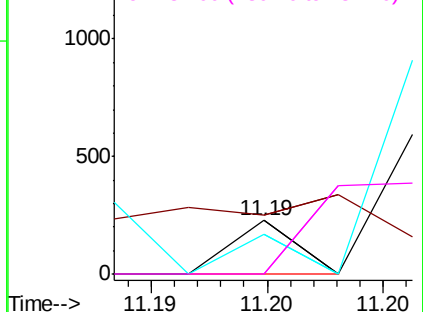


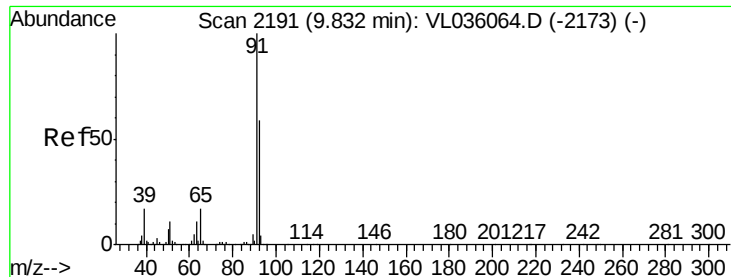
#52  
Tetrachloroethene  
Concen: 0.001 ppbv  
RT: 11.19 min Scan# 2615  
Delta R.T. -0.05 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 44     |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 166      | 0.0   | 101.9 | 152.9# |
| 129      | 74.9  | 82.1  | 123.1# |
| 131      | 0.0   | 80.8  | 121.2# |



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





#53

Toluene

Concen: 0.216 ppbv m

RT: 9.79 min Scan# 2178

Delta R.T. -0.04 min

Lab File: VL036137.D

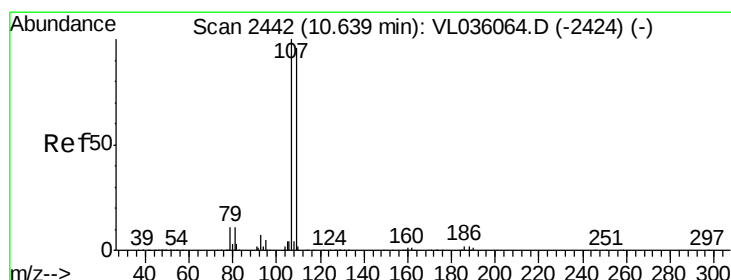
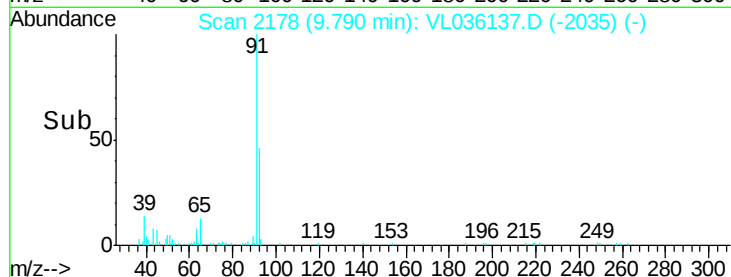
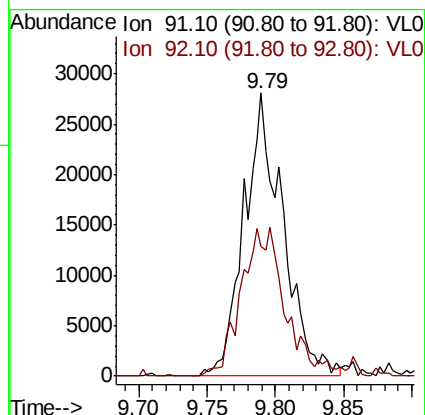
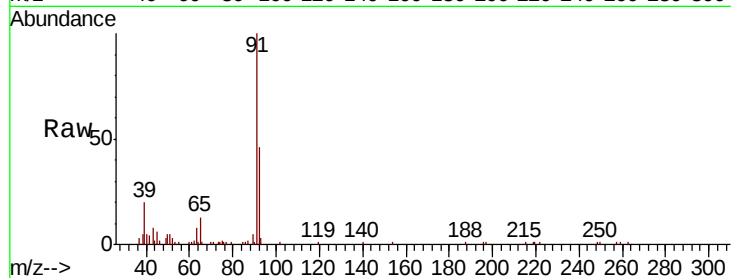
Acq: 10 Dec 2020 20:59

Tot Ion: 91 Resp: 55452

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.05 min

Lab File: VL036137.D

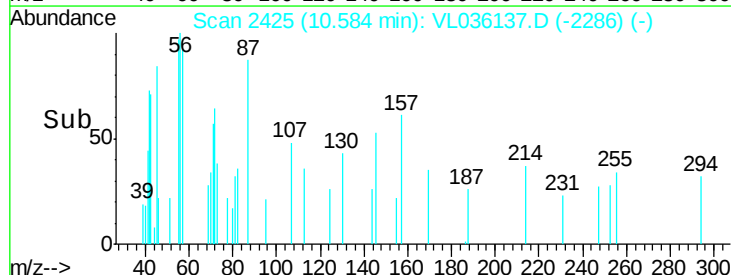
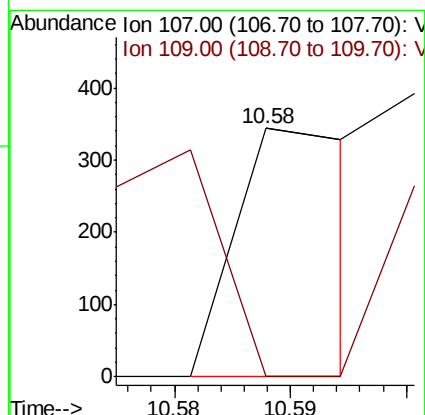
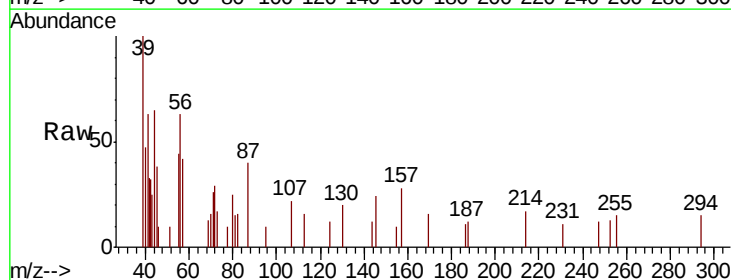
Acq: 10 Dec 2020 20:59

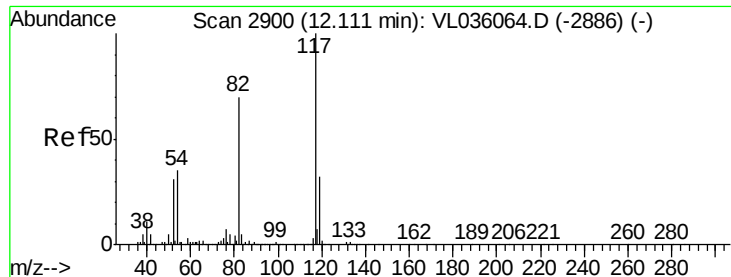
Tgt Ion: 107 Resp: 130

Ion Ratio Lower Upper

107 100

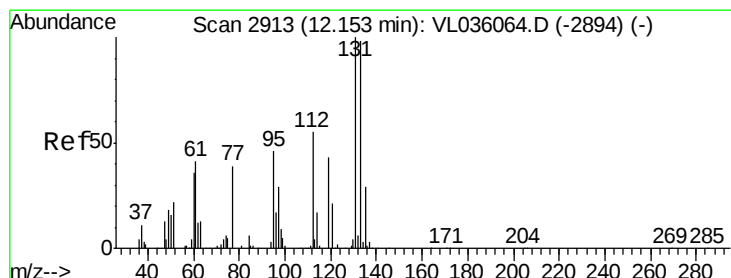
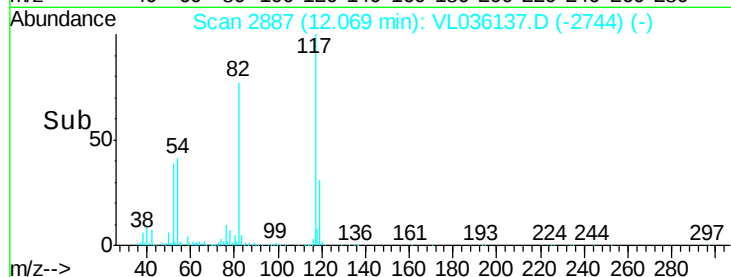
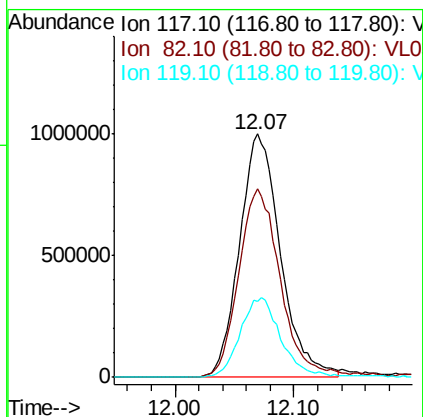
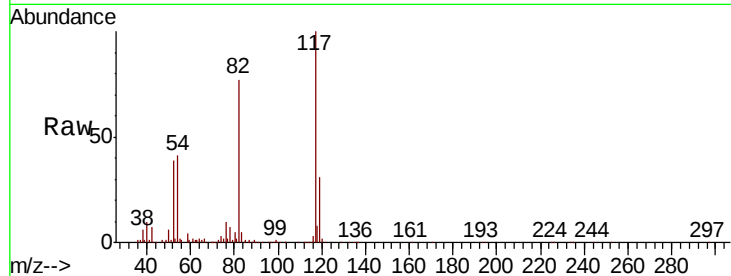
109 0.0 76.6 115.0#





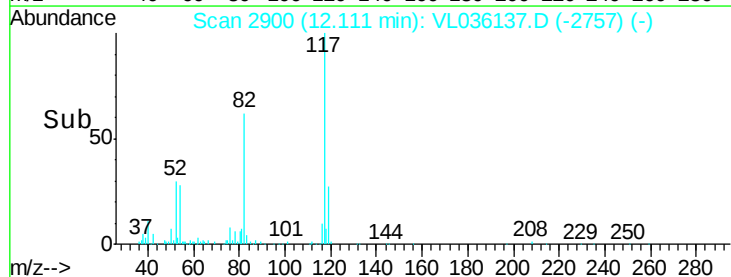
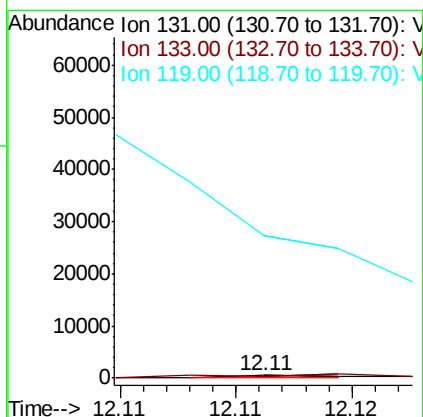
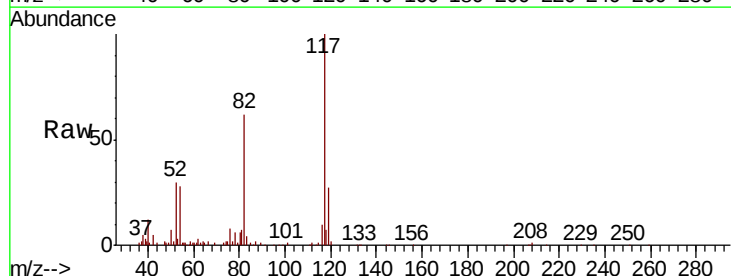
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2887  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

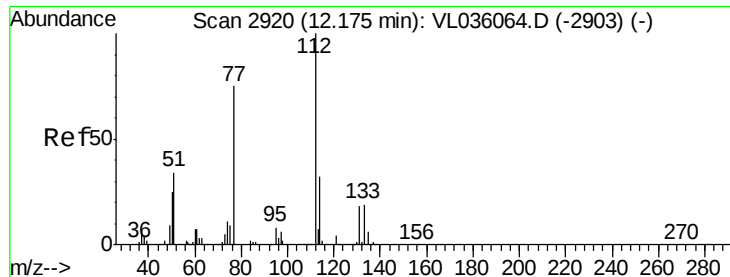
Tot Ion:117 Resp: 2387096  
Ion Ratio Lower Upper  
117 100  
82 80.5 0.0 0.0#  
119 33.3 0.0 0.0#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.001 ppbv  
RT: 12.11 min Scan# 2900  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

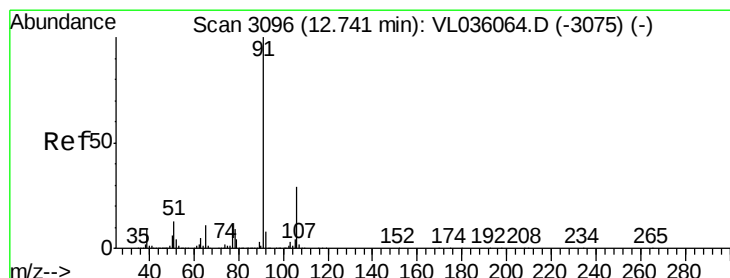
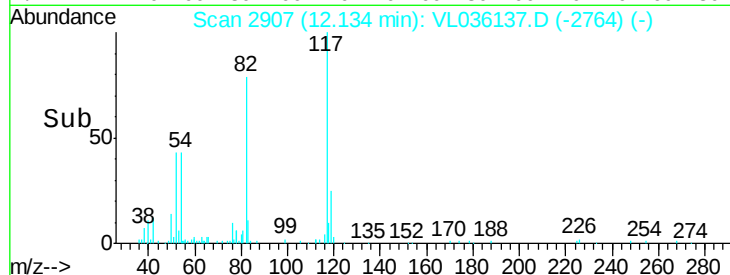
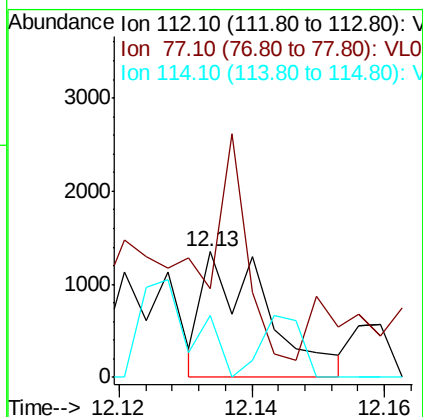
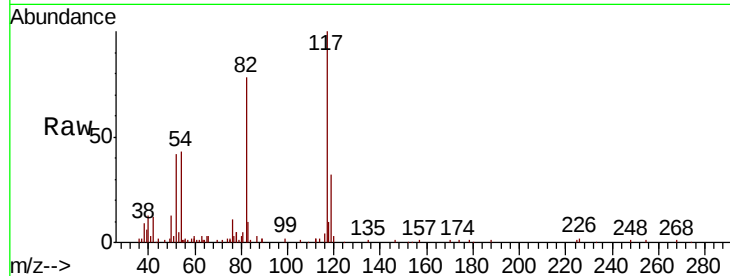
Tgt Ion:131 Resp: 130  
Ion Ratio Lower Upper  
131 100  
133 0.0 77.7 116.5#  
119 0.0 51.6 77.4#





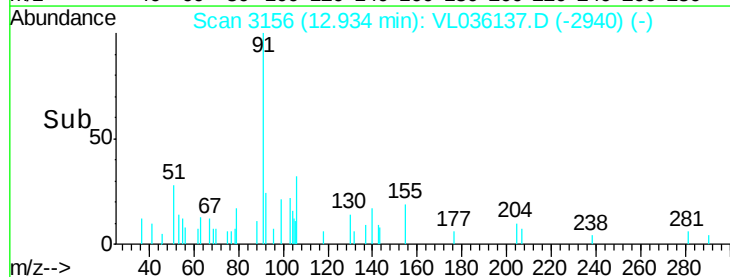
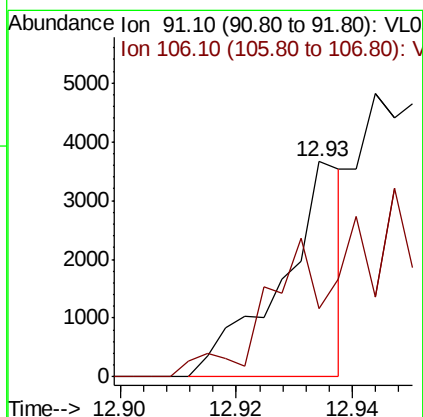
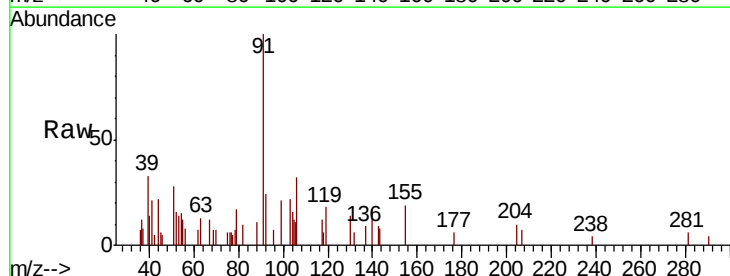
#57  
Chlorobenzene  
Concen: 0.005 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

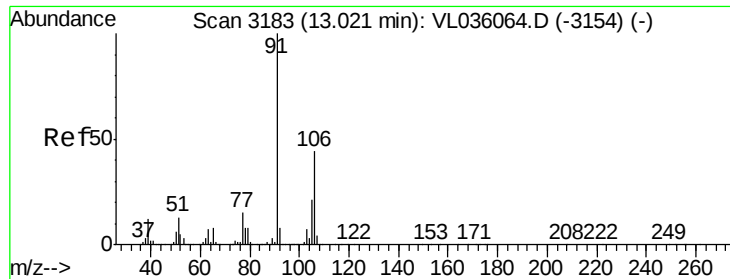
Tot Ion:112 Resp: 898  
Ion Ratio Lower Upper  
112 100  
77 37.3 60.5 90.7#  
114 59.7 29.2 35.6#



#58  
Ethyl Benzene  
Concen: 0.008 ppbv  
RT: 12.93 min Scan# 3156  
Delta R.T. 0.19 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

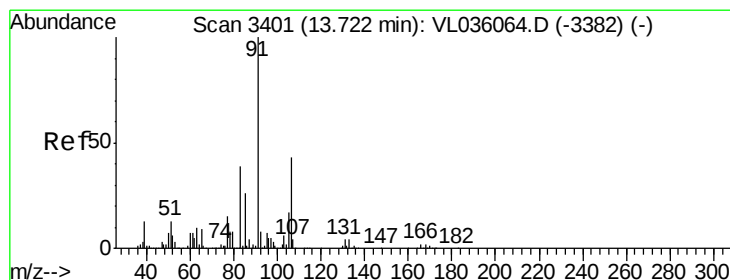
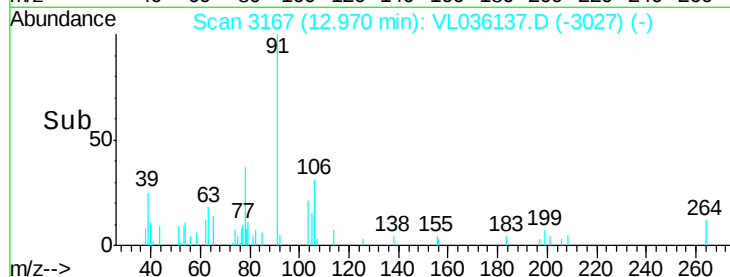
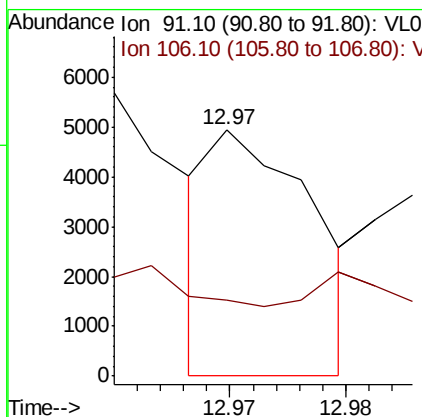
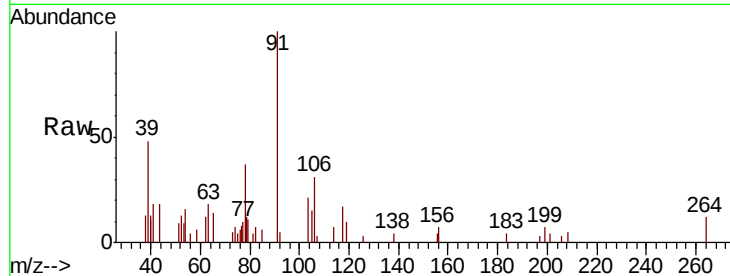
Tgt Ion: 91 Resp: 2715  
Ion Ratio Lower Upper  
91 100  
106 24.7 23.0 34.4





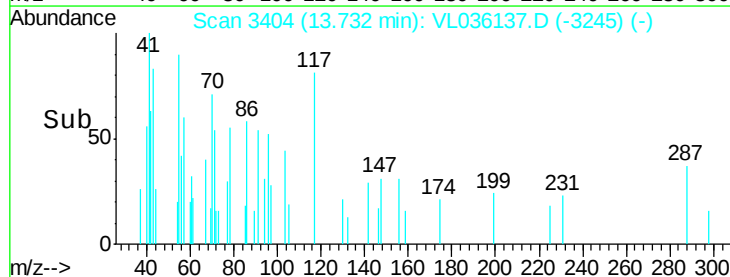
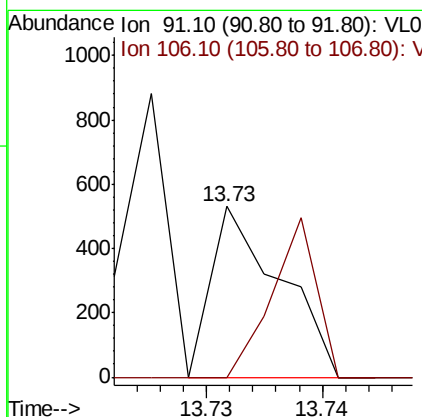
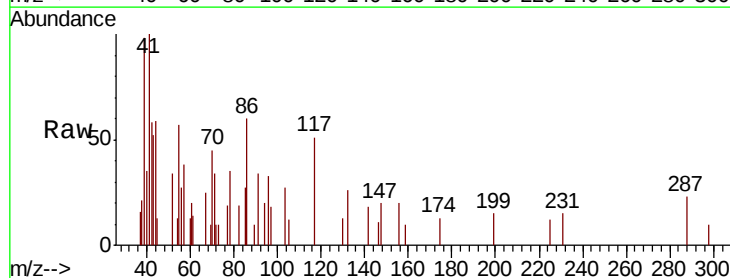
#59  
m/p-Xylene  
Concen: 0.011 ppbv  
RT: 12.97 min Scan# 3167  
Delta R.T. -0.05 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

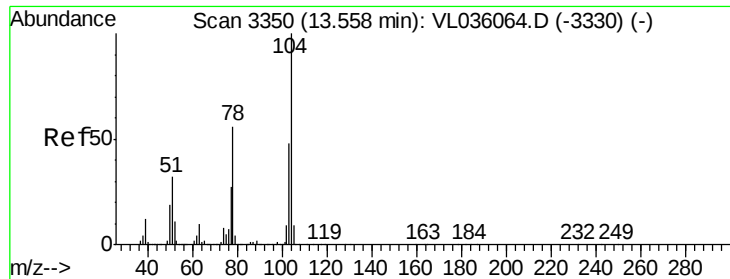
Tot Ion: 91 Resp: 3026  
Ion Ratio Lower Upper  
91 100  
106 0.0 33.6 50.4#



#60  
o-Xylene  
Concen: 0.001 ppbv  
RT: 13.73 min Scan# 3404  
Delta R.T. 0.01 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

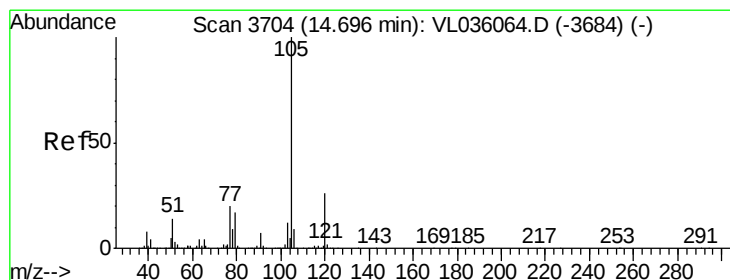
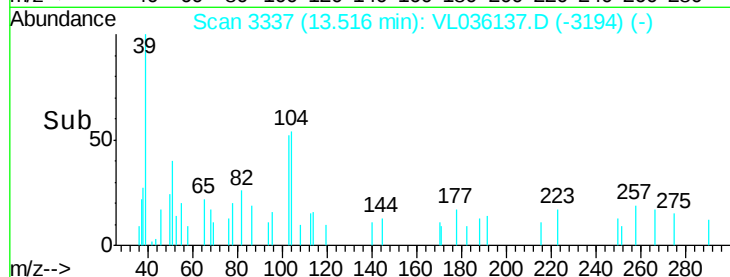
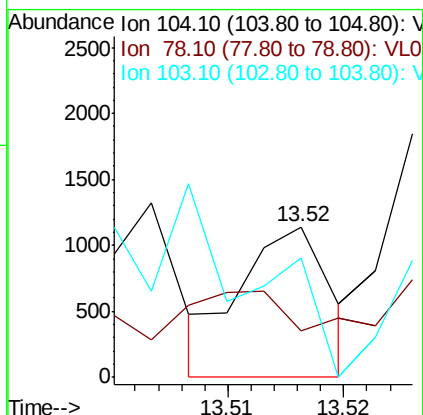
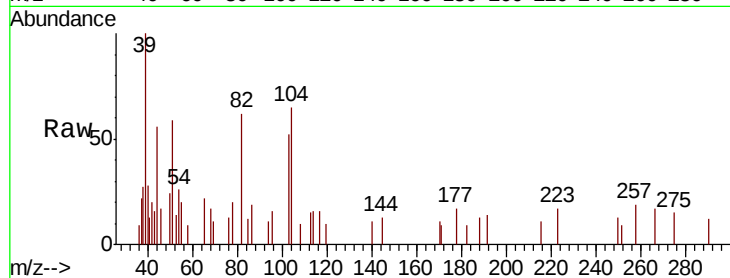
Tgt Ion: 91 Resp: 218  
Ion Ratio Lower Upper  
91 100  
106 60.6 21.6 64.6





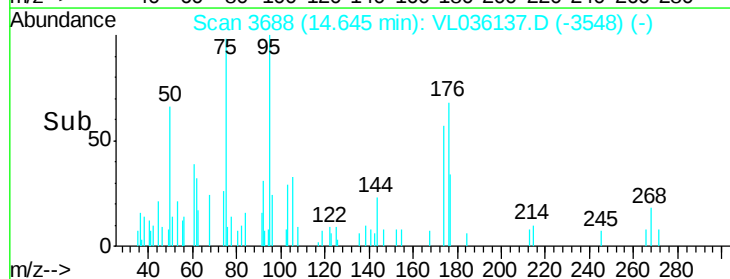
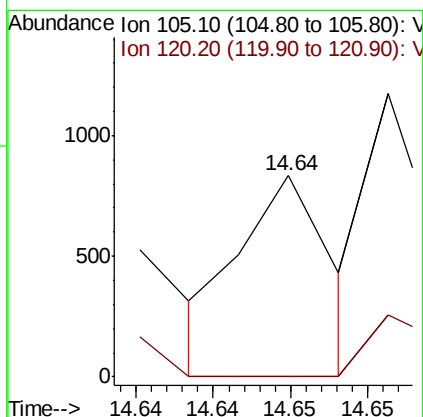
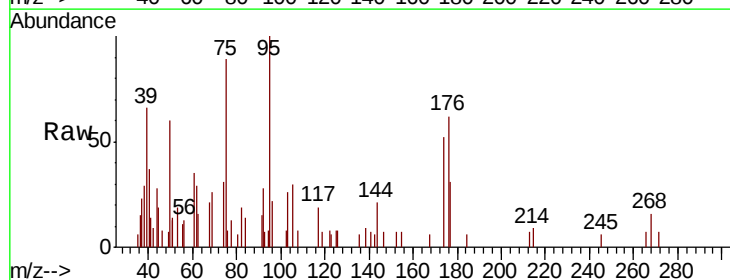
#61  
Stvrene  
Concen: 0.004 ppbv  
RT: 13.52 min Scan# 3337  
Delta R.T. -0.04 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

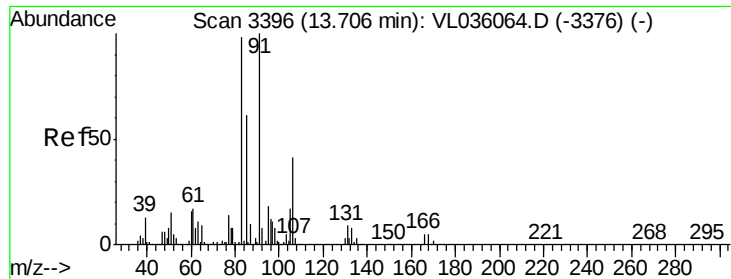
Tot Ion:104 Resp: 612  
Ion Ratio Lower Upper  
104 100  
78 0.0 45.8 68.8#  
103 0.0 38.6 57.8#



#62  
Isopropylbenzene  
Concen: 0.001 ppbv  
RT: 14.64 min Scan# 3688  
Delta R.T. -0.05 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

Tgt Ion:105 Resp: 343  
Ion Ratio Lower Upper  
105 100  
120 0.0 20.1 30.1#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.002 ppbv

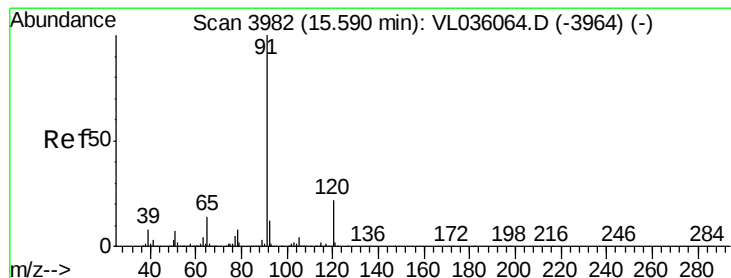
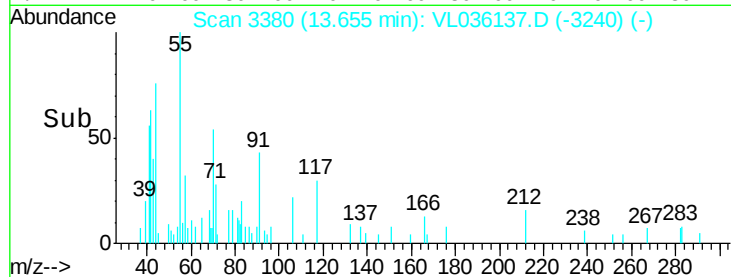
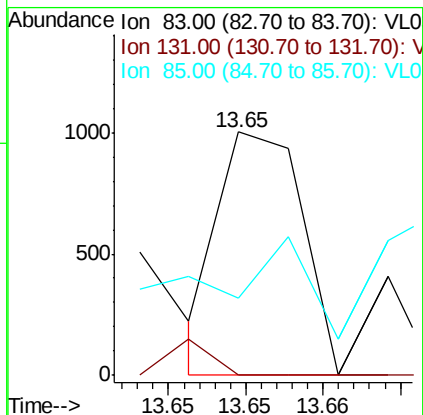
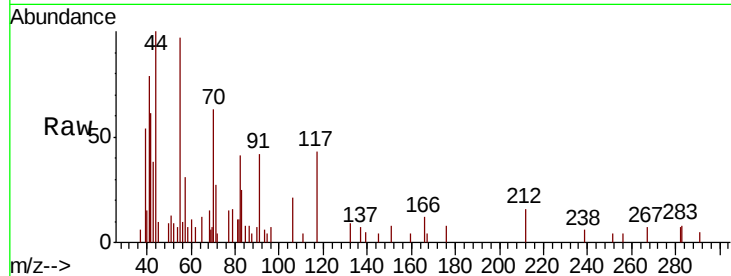
RT: 13.65 min Scan# 3380

Delta R.T. -0.05 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

| Tot Ion | 83    | Resp  | 374   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 131     | 7.8   | 4.6   | 13.8  |
| 85      | 0.0   | 32.5  | 97.5# |



#64

n-propylbenzene

Concen: 0.001 ppbv

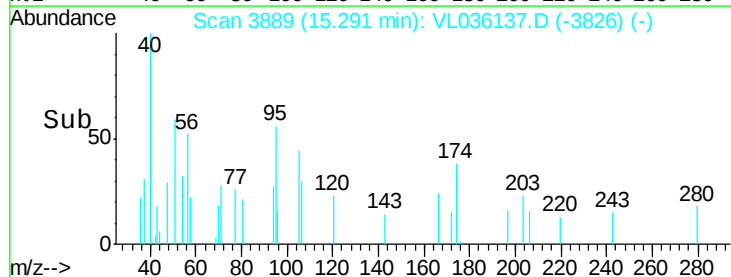
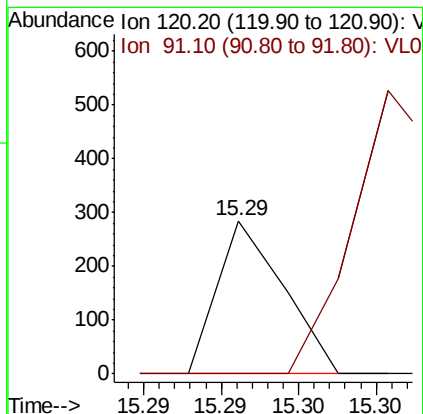
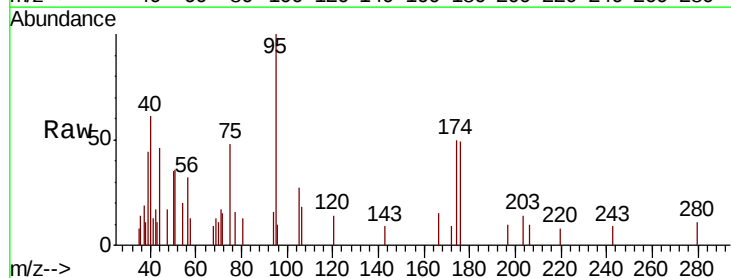
RT: 15.29 min Scan# 3889

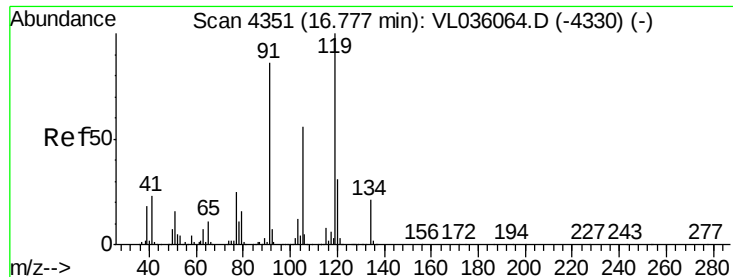
Delta R.T. -0.30 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

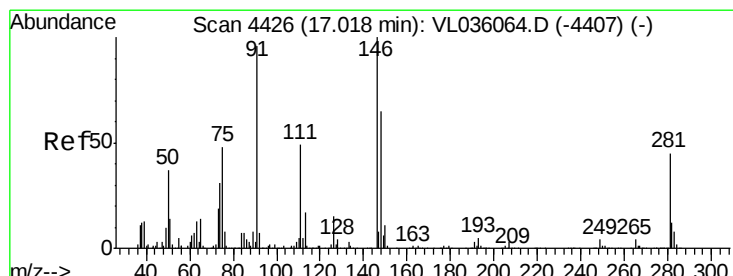
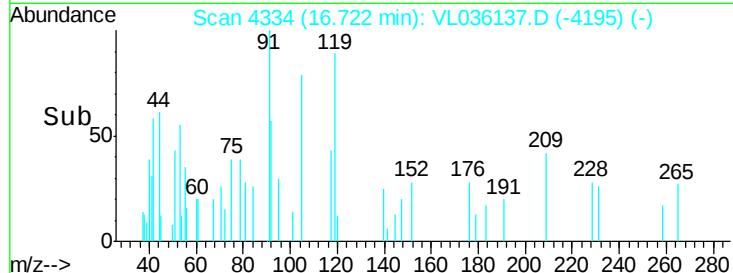
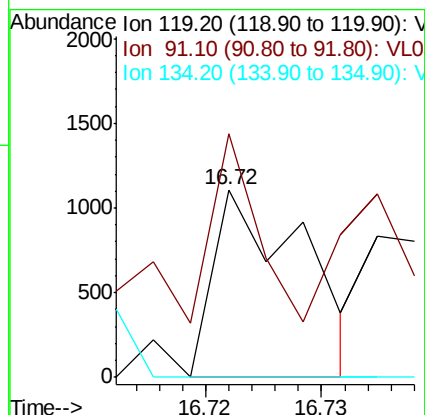
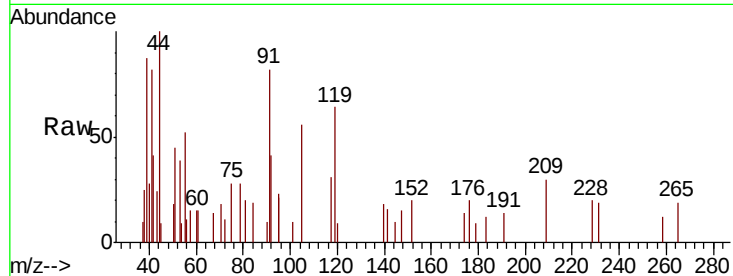
| Tgt Ion | 120   | Resp  | 84    |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 120     | 100   |       |       |
| 91      | 429.8 | 388.9 | 583.3 |





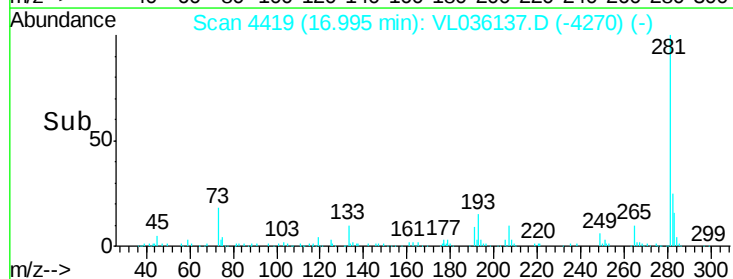
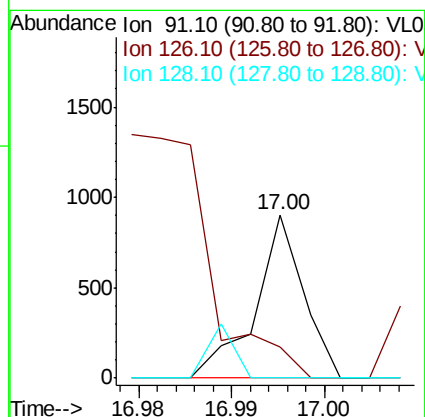
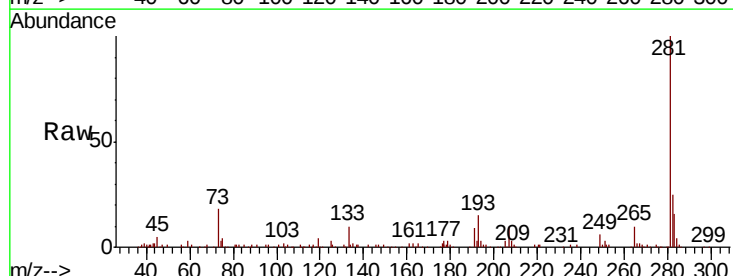
#65  
tert-Butylbenzene  
Concen: 0.002 ppbv  
RT: 16.72 min Scan# 4334  
Delta R.T. -0.05 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

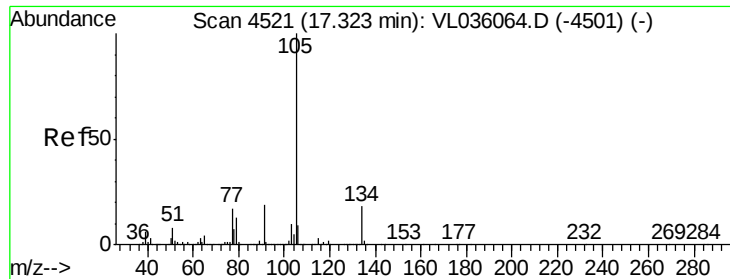
Tot Ion: 119 Resp: 595  
Ion Ratio Lower Upper  
119 100  
91 542.9 70.2 105.2#  
134 0.0 15.8 23.6#



#66  
Benzyl Chloride  
Concen: 0.004 ppbv  
RT: 17.00 min Scan# 4419  
Delta R.T. -0.02 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

Tgt Ion: 91 Resp: 324  
Ion Ratio Lower Upper  
91 100  
126 273.5 13.5 20.3#  
128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.001 ppbv

RT: 17.27 min Scan# 4504

Delta R.T. -0.05 min

Lab File: VL036137.D

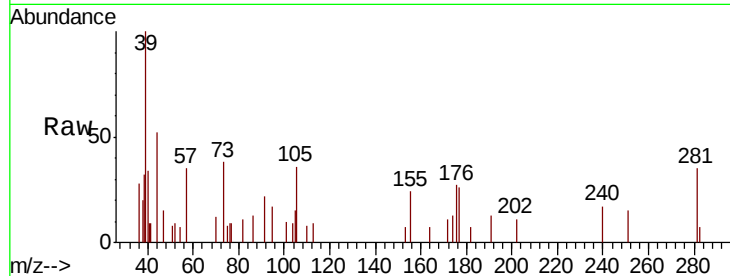
Acq: 10 Dec 2020 20:59

Tot Ion: 105 Resp: 460

Ion Ratio Lower Upper

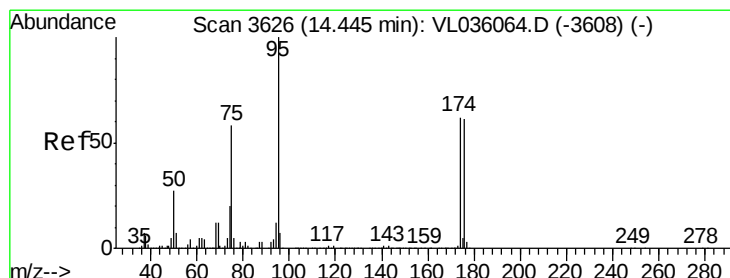
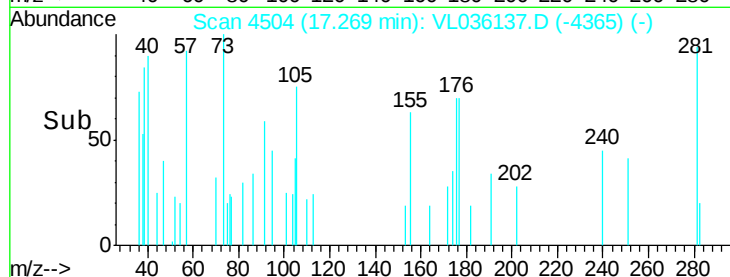
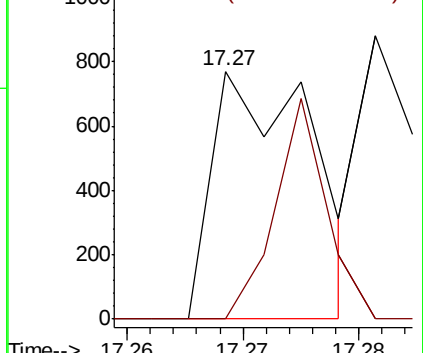
105 100

134 45.7 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: 10.887 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

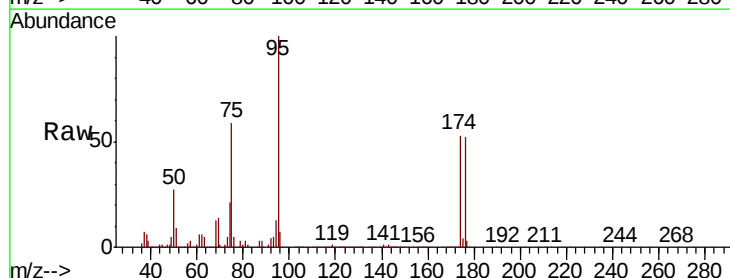
Tgt Ion: 95 Resp: 2063521

Ion Ratio Lower Upper

95 100

174 54.5 50.7 76.1

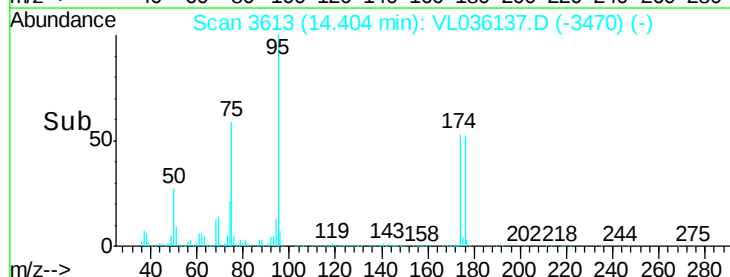
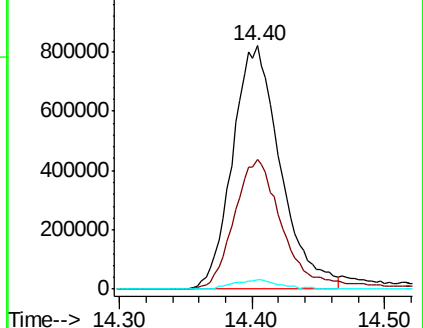
175 4.0 4.0 6.0#

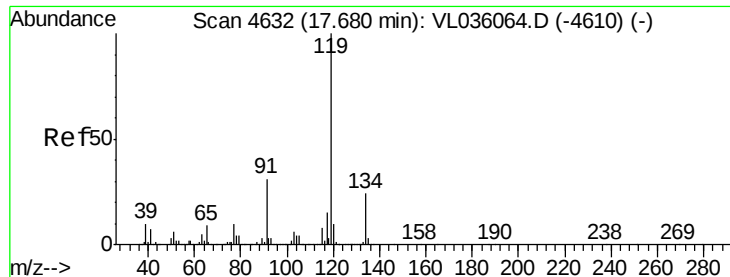


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

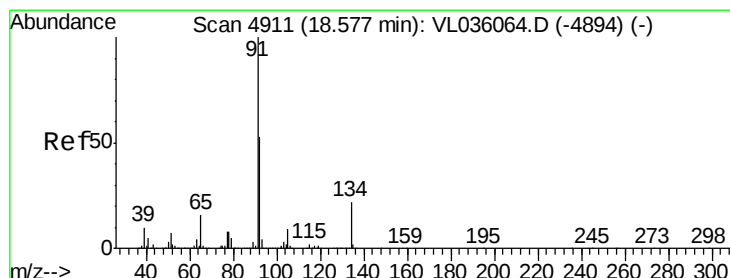
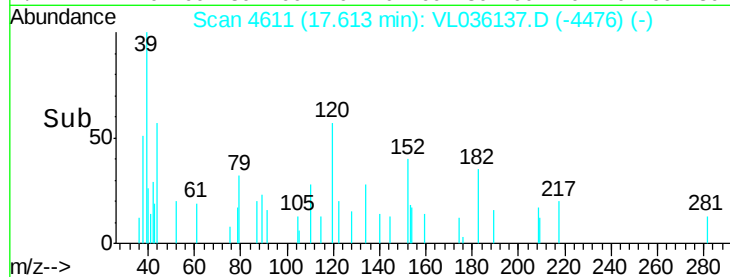
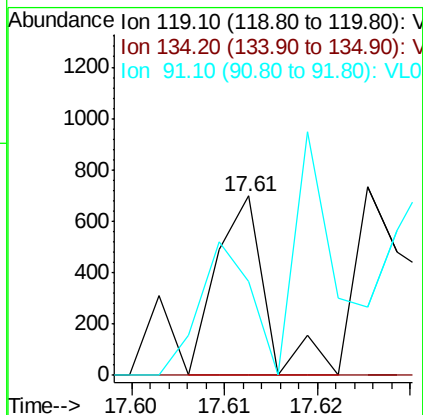
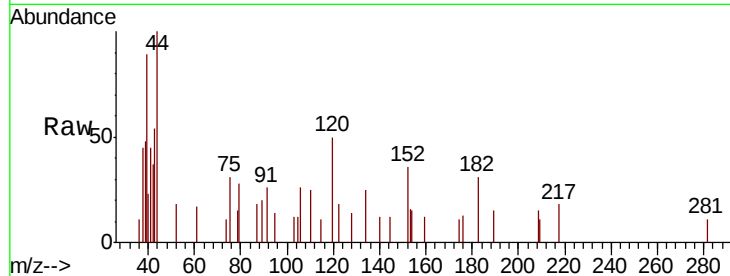
Ion 175.00 (174.70 to 175.70): V





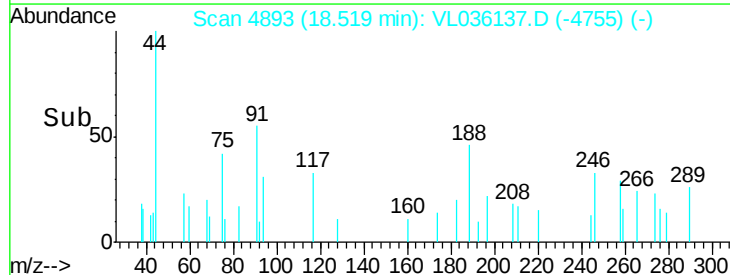
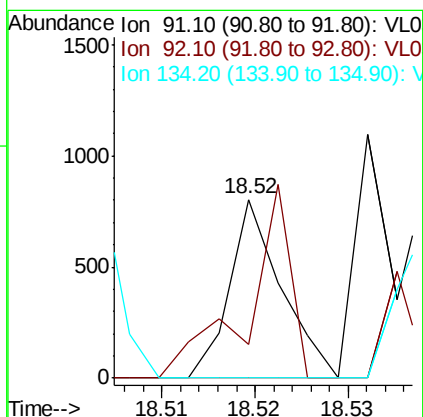
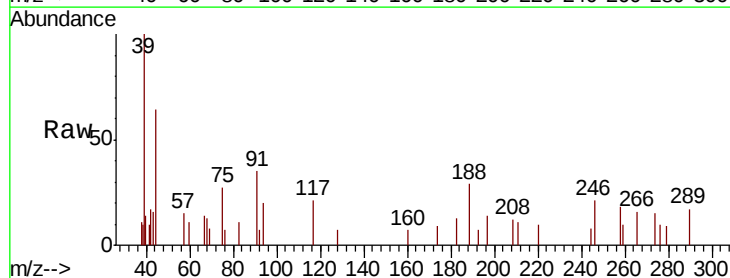
#69  
 p-Isopropyltoluene  
 Concen: 0.001 ppbv  
 RT: 17.61 min Scan# 4611  
 Delta R.T. -0.07 min  
 Lab File: VL036137.D  
 Acq: 10 Dec 2020 20:59

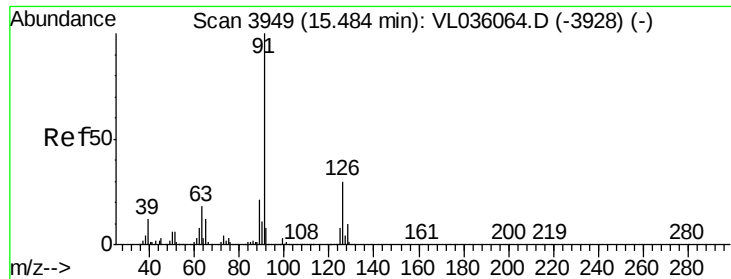
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 0.0   | 19.8  | 29.6# |
| 91      | 363.1 | 25.8  | 38.6# |



#70  
 n-Butylbenzene  
 Concen: 0.001 ppbv  
 RT: 18.52 min Scan# 4893  
 Delta R.T. -0.06 min  
 Lab File: VL036137.D  
 Acq: 10 Dec 2020 20:59

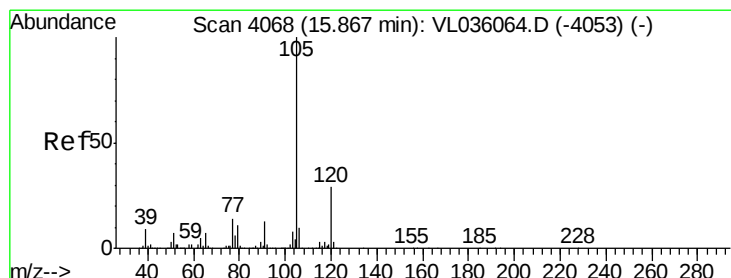
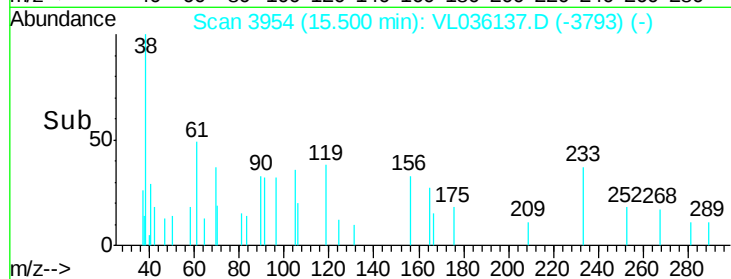
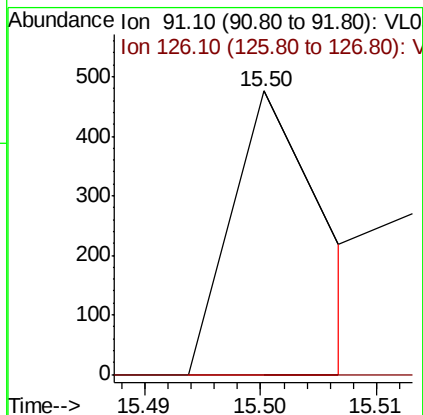
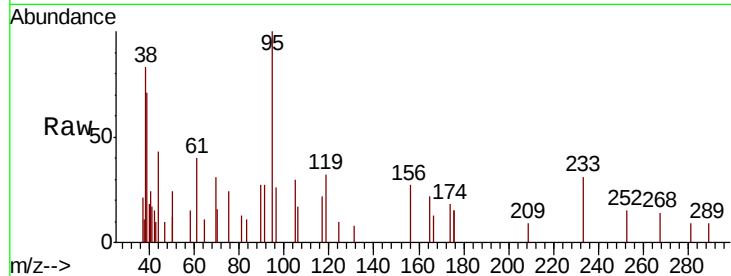
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 43.3  | 64.9# |
| 134     | 0.0   | 17.1  | 25.7# |





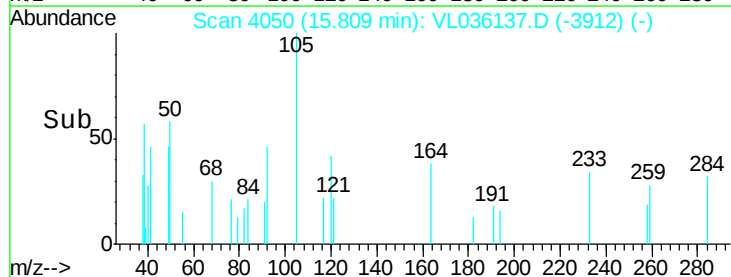
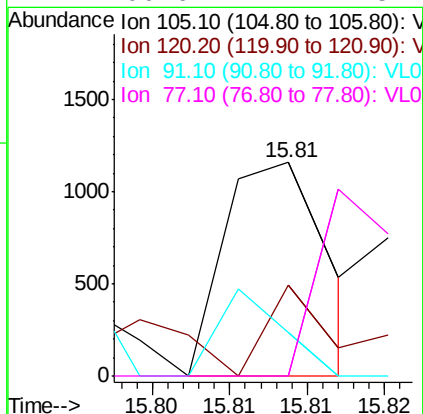
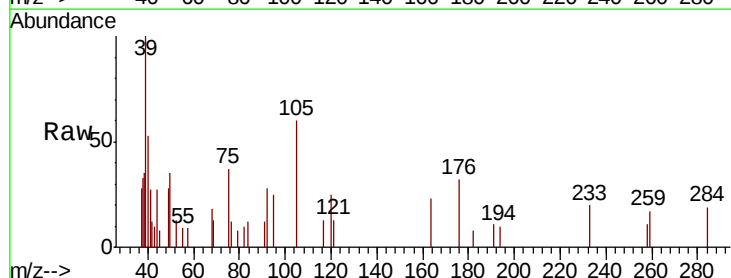
#71  
2-Chlorotoluene  
Concen: 0.000 ppbv  
RT: 15.50 min Scan# 3954  
Delta R.T. 0.02 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

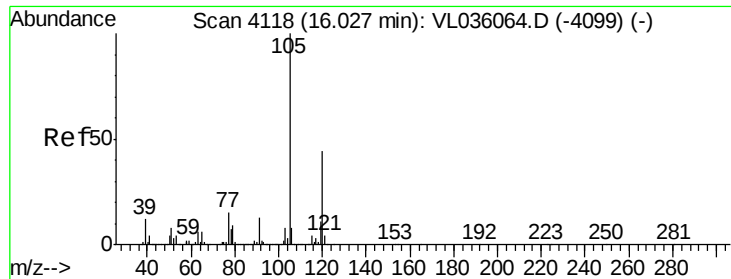
Tot Ion: 91 Resp: 134  
Ion Ratio Lower Upper  
91 100  
126 38.1 11.6 46.4



#72  
4-Ethyltoluene  
Concen: 0.002 ppbv  
RT: 15.81 min Scan# 4050  
Delta R.T. -0.06 min  
Lab File: VL036137.D  
Acq: 10 Dec 2020 20:59

Tgt Ion: 105 Resp: 533  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.6 35.4#  
91 0.0 11.4 17.0#  
77 100.6 12.1 18.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.001 ppbv

RT: 15.97 min Scan# 4101

Delta R.T. -0.05 min

Lab File: VL036137.D

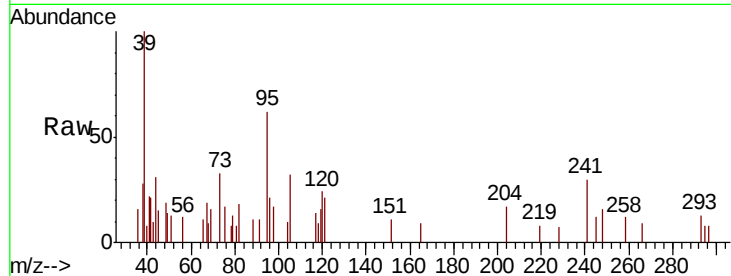
Acq: 10 Dec 2020 20:59

Tot Ion:105 Resp: 355

Ion Ratio Lower Upper

105 100

120 109.6 35.4 53.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500

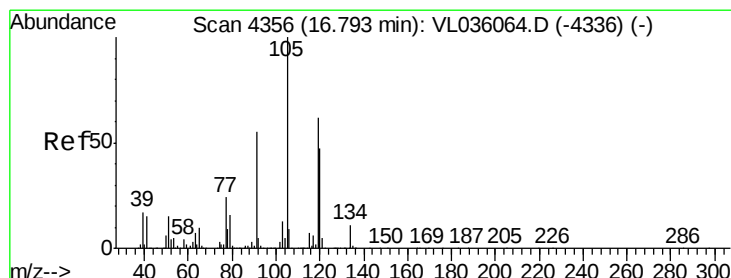
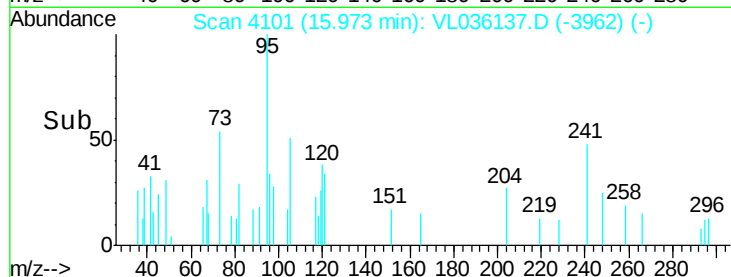
1000

500

0

15.96 15.97 15.98

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.003 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.05 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion:105 Resp: 778

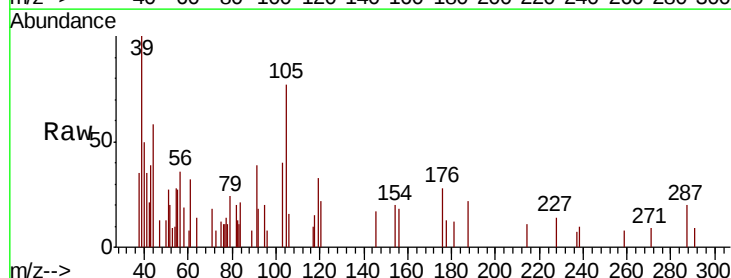
Ion Ratio Lower Upper

105 100

120 18.0 37.4 56.0#

91 26.8 45.6 68.4#

77 0.0 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

3000

2500

2000

1500

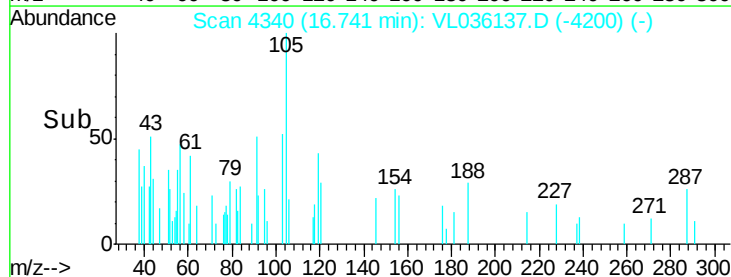
1000

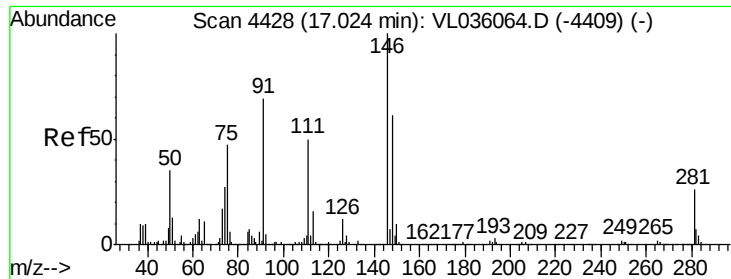
500

0

16.73 16.74

Time-->





#75

1,3-Dichlorobenzene

Concen: 0.001 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.05 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

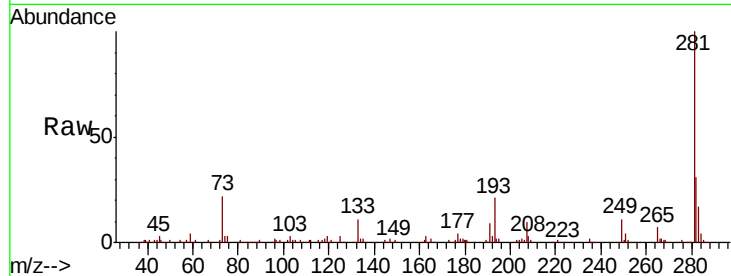
Tot Ion:146 Resp: 164

Ion Ratio Lower Upper

146 100

111 0.0 25.1 75.3#

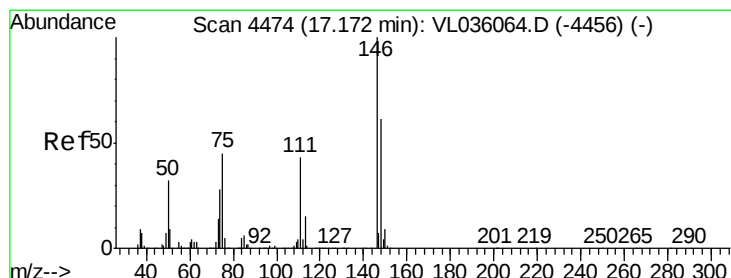
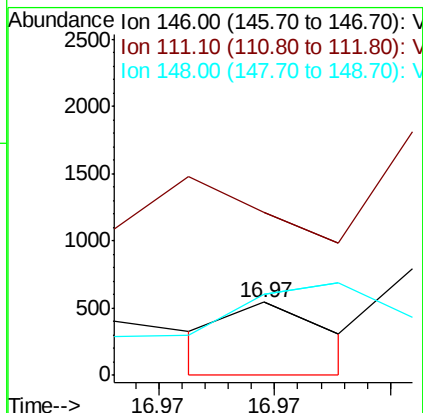
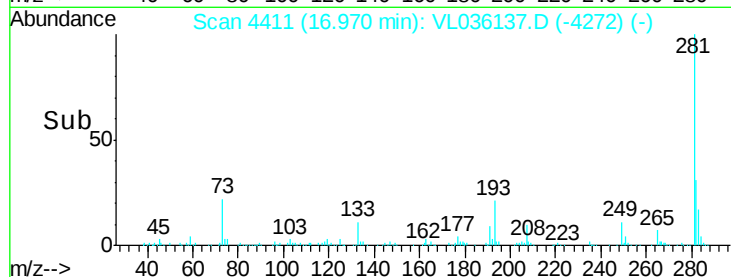
148 0.0 32.9 98.6#



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: 0.004 ppbv

RT: 17.12 min Scan# 4457

Delta R.T. -0.05 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

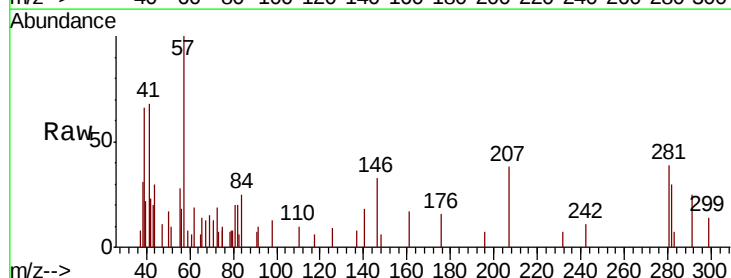
Tgt Ion:146 Resp: 516

Ion Ratio Lower Upper

146 100

111 0.0 24.3 72.8#

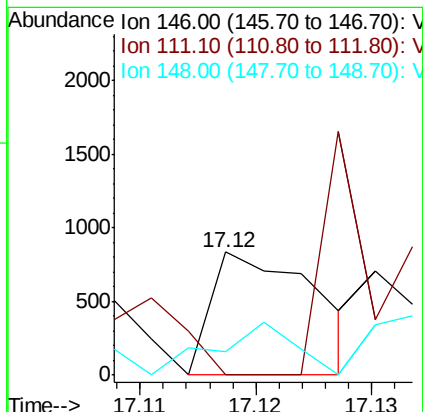
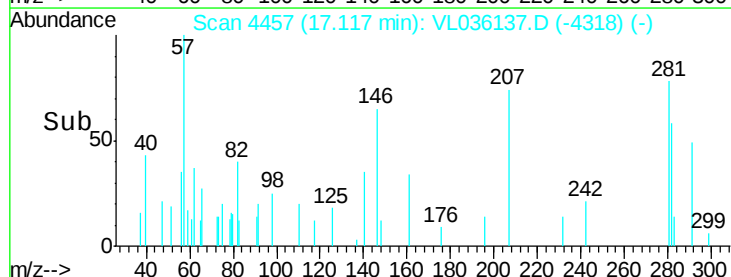
148 48.3 32.8 98.3

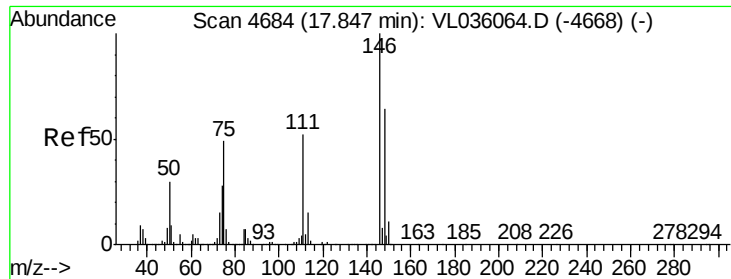


Abundance Ion 146.00 (145.70 to 146.70): V

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: 17.79 min Scan# 4665

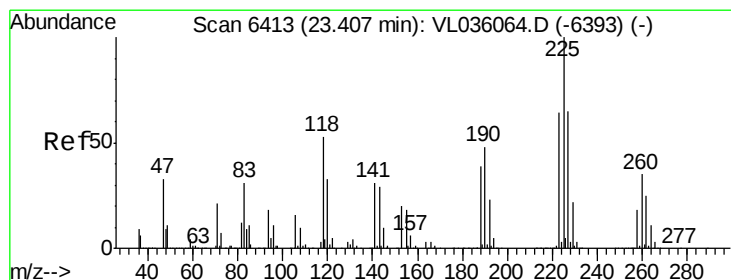
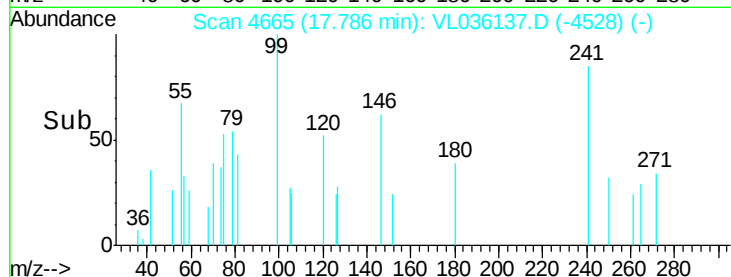
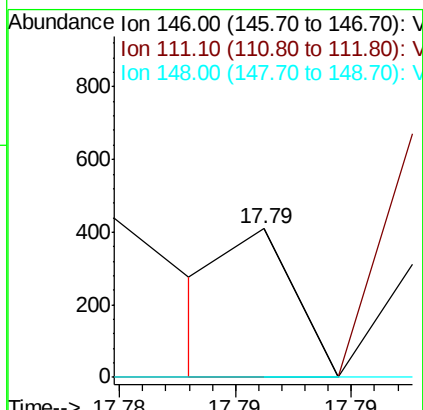
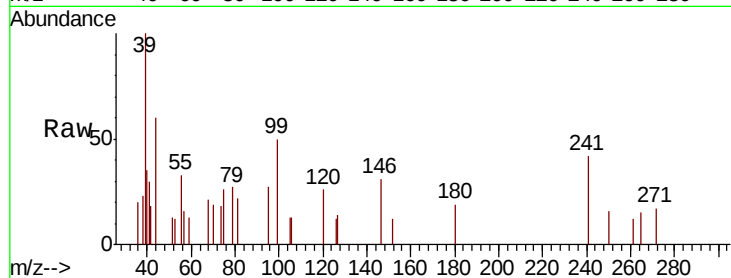
Delta R.T. -0.06 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tot Ion:146 Resp: 79

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



#78

Hexachloro-1,3-Butadiene

Concen: 0.002 ppbv

RT: 23.34 min Scan# 6392

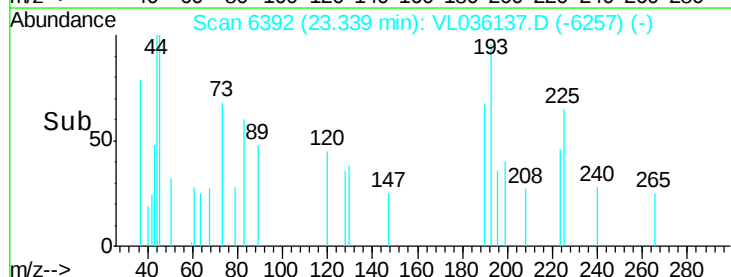
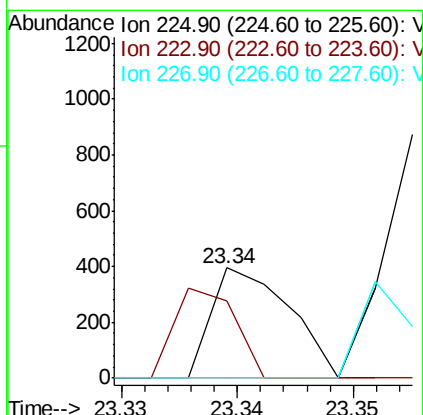
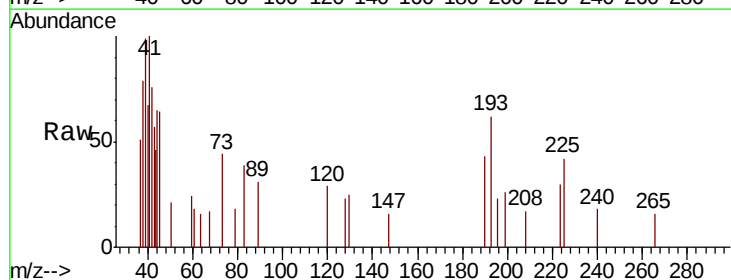
Delta R.T. -0.07 min

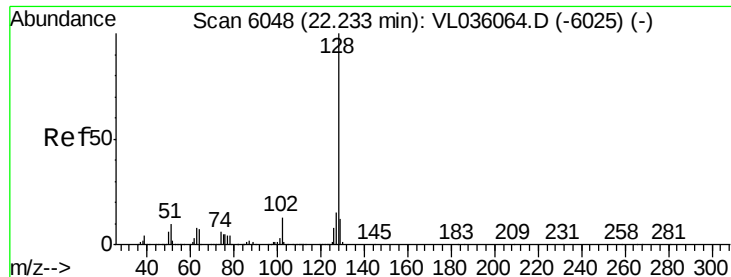
Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

Tgt Ion:225 Resp: 183

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 153.0 | 51.1  | 76.7# |
| 227 | 0.0   | 51.7  | 77.5# |





#79

Naphthalene

Concen: 0.006 ppbv

RT: 22.19 min Scan# 6035

Delta R.T. -0.04 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

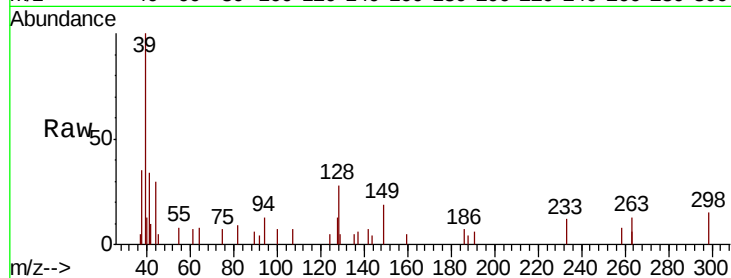
Tot Ion:128 Resp: 801

Ion Ratio Lower Upper

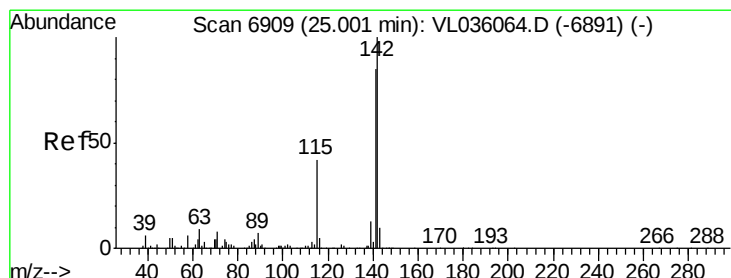
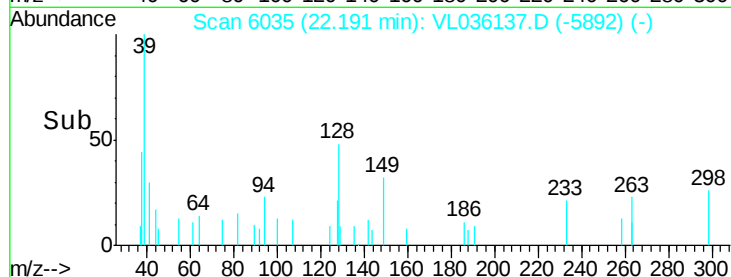
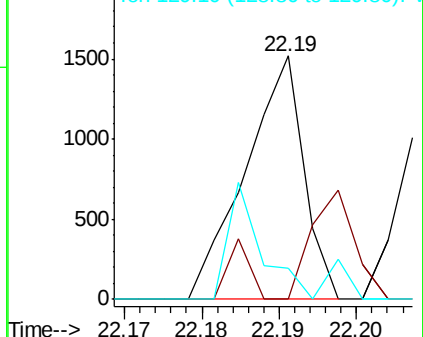
128 100

127 30.7 11.7 17.5#

129 13.0 9.3 13.9



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: 0.002 ppbv

RT: 24.88 min Scan# 6870

Delta R.T. -0.13 min

Lab File: VL036137.D

Acq: 10 Dec 2020 20:59

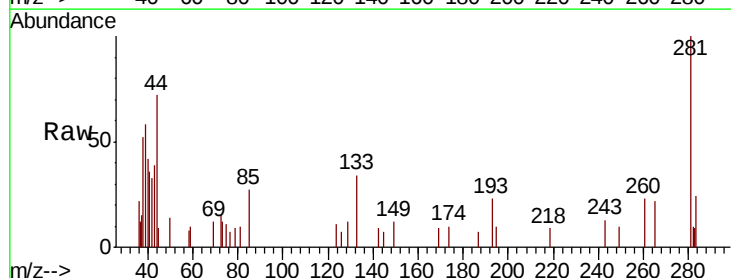
Tgt Ion:142 Resp: 76

Ion Ratio Lower Upper

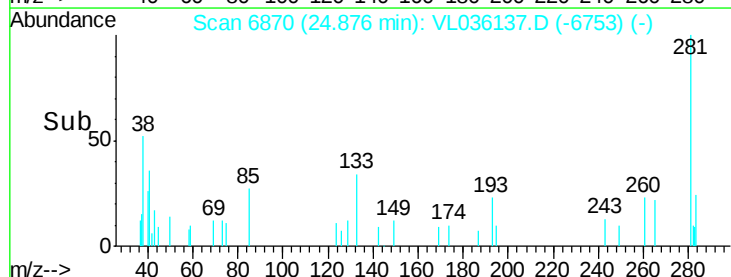
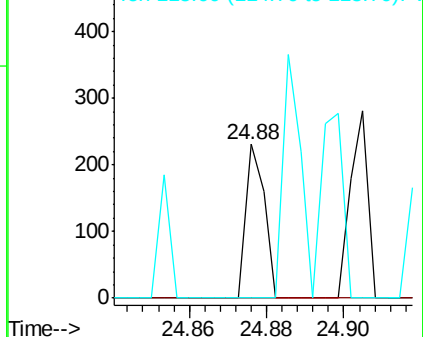
142 100

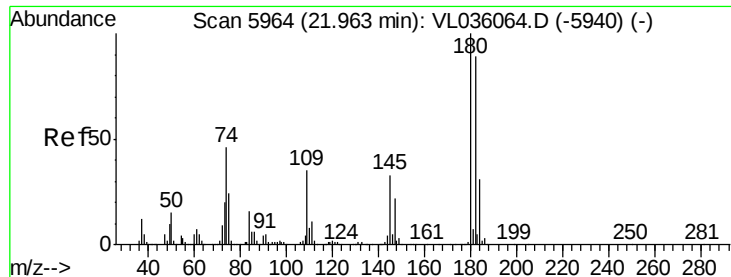
141 0.0 64.3 96.5#

115 285.5 33.9 50.9#



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V

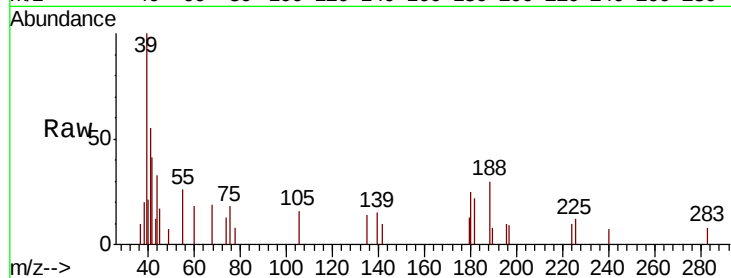




#81

1,2,4-Trichlorobenzene  
 Concen: 0.004 ppbv  
 RT: 21.91 min Scan# 5949  
 Delta R.T. -0.05 min  
 Lab File: VL036137.D  
 Acq: 10 Dec 2020 20:59

|           |       |       |     |
|-----------|-------|-------|-----|
| Tot Ion:  | 180   | Resp: | 350 |
| Ion Ratio | Lower | Upper |     |
| 180       | 100   |       |     |
| 182       | 0.0   | 0.0   | 0.0 |
| 184       | 0.0   | 0.0   | 0.0 |



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

