

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\  
 Data File : VL035131.D  
 Acq On : 30 Jun 2020 18:55  
 Operator : SY/AP  
 Sample : L3124-02DL 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 01 03:00:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 02:10:36 2020  
 QLast Update : Sat Jun 20 02:10:36 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1293839  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3044564  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2855347  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 2380585  | 10.04    | ppbv | 0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.40% |

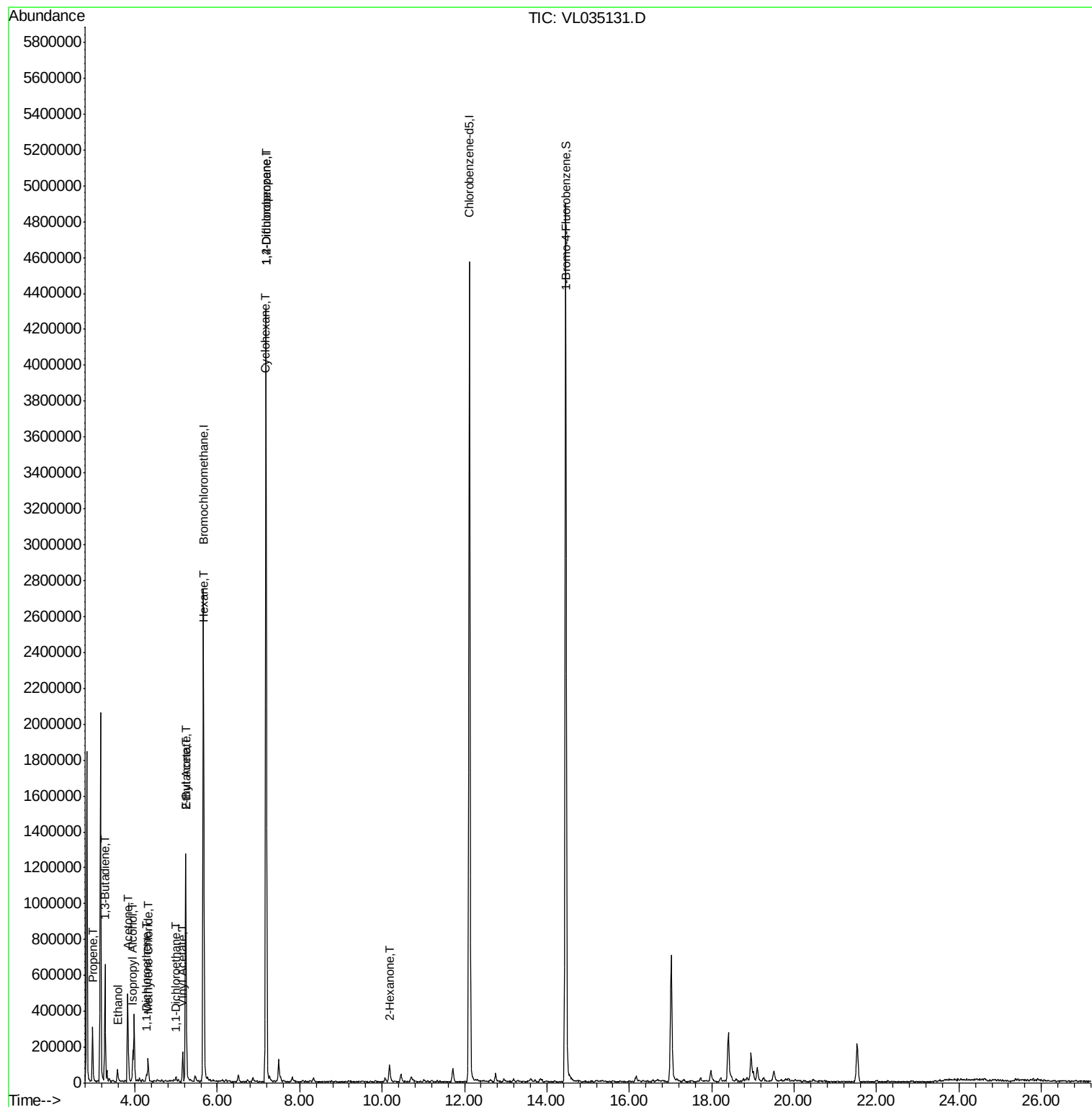
| Target Compounds        |       |    |         |              | Ovalue |
|-------------------------|-------|----|---------|--------------|--------|
| 9) Propene              | 2.97  | 41 | 115515  | 2.041 ppbv   | 94     |
| 13) Ethanol             | 3.58  | 45 | 69996   | 3.274 ppbv   | 91     |
| 15) Acetone             | 3.83  | 43 | 441202  | 2.820 ppbv # | 62     |
| 16) 1,3-Butadiene       | 3.28  | 39 | 154278  | 2.249 ppbv # | 15     |
| 18) 1,1-Dichloroethene  | 4.26  | 96 | 1903    | 0.033 ppbv # | 70     |
| 19) Isopropyl Alcohol   | 3.95  | 45 | 185995  | 1.831 ppbv # | 1      |
| 20) Methylene Chloride  | 4.32  | 84 | 39179   | 0.619 ppbv # | 76     |
| 23) Vinyl Acetate       | 5.16  | 43 | 50325   | 0.265 ppbv # | 9      |
| 24) 1,1-Dichloroethane  | 5.00  | 63 | 15945   | 0.100 ppbv   | 100    |
| 25) Ethyl Acetate       | 5.23  | 43 | 1418535 | 5.025 ppbv # | 75     |
| 26) Hexane              | 5.68  | 57 | 10514   | 0.083 ppbv # | 1      |
| 30) Cyclohexane         | 7.17  | 84 | 3084    | 0.034 ppbv # | 1      |
| 34) 2-Butanone          | 5.23  | 43 | 1418535 | 8.113 ppbv   | 99     |
| 39) 1,2-Dichloropropane | 7.18  | 63 | 805772  | 8.739 ppbv # | 24     |
| 51) 2-Hexanone          | 10.18 | 43 | 80736   | 0.415 ppbv # | 99     |

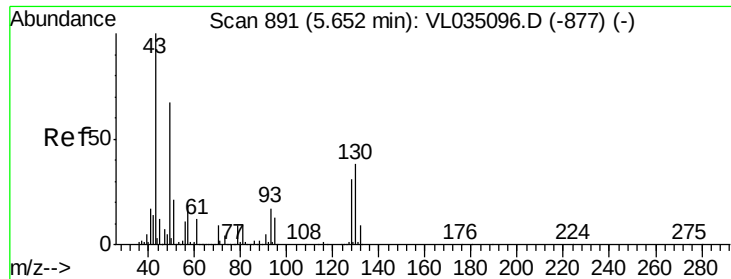
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL063020\  
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Quant Time: Jul 01 03:00:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 02:10:36 2020  
QLast Update : Sat Jun 20 02:10:36 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.01 min

Lab File: VL035131.D

Acq: 30 Jun 2020 18:55

Instrument :  
MSVOA\_L  
ClientSampleId :

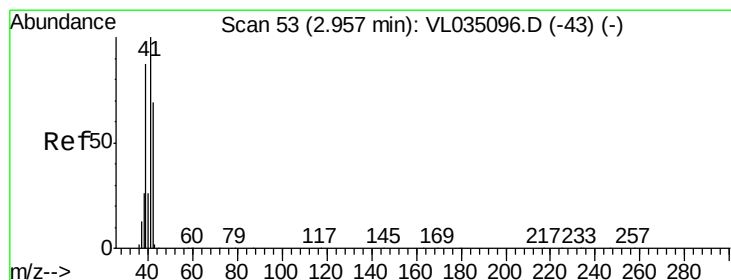
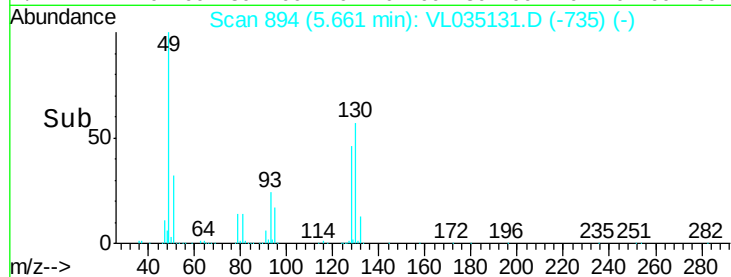
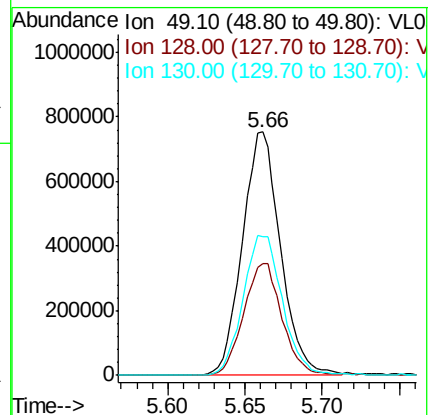
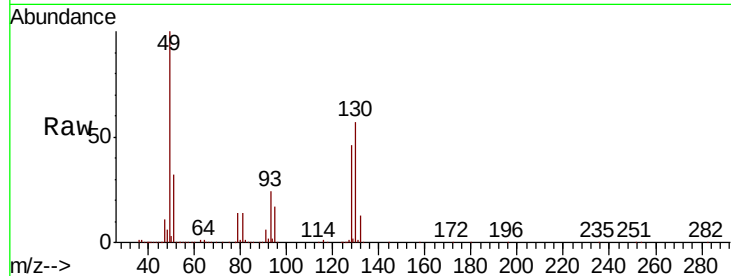
Tot Ion: 49 Resp: 1293839

Ion Ratio Lower Upper

49 100

128 46.7 22.9 68.5

130 59.5 29.0 87.0



#9

Propene

Concen: 2.041 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.02 min

Lab File: VL035131.D

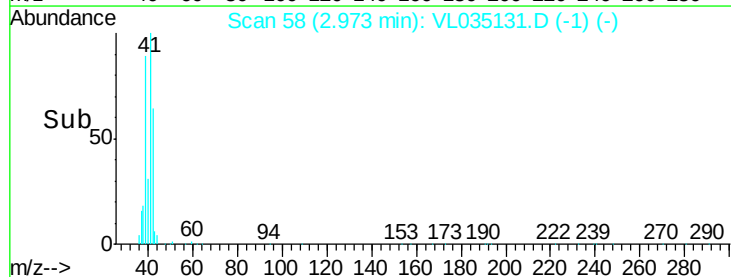
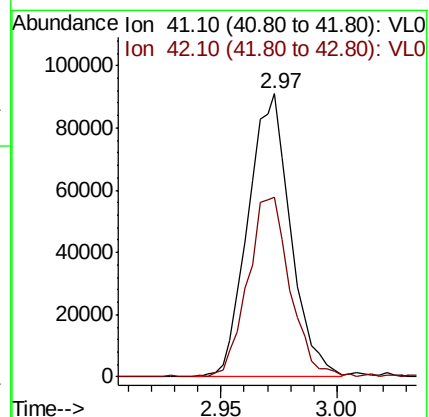
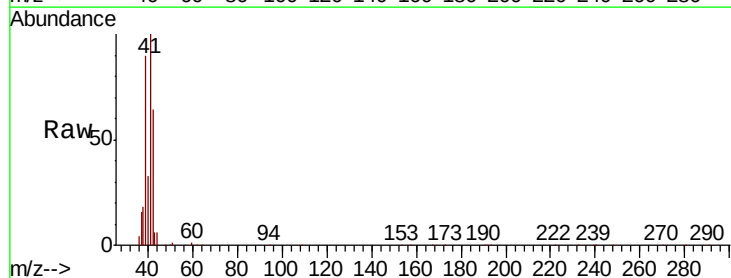
Acq: 30 Jun 2020 18:55

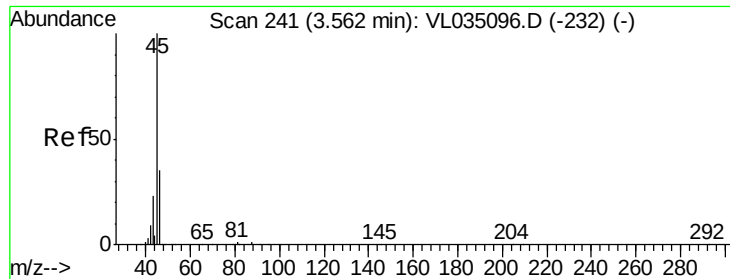
Tgt Ion: 41 Resp: 115515

Ion Ratio Lower Upper

41 100

42 65.0 55.8 83.6

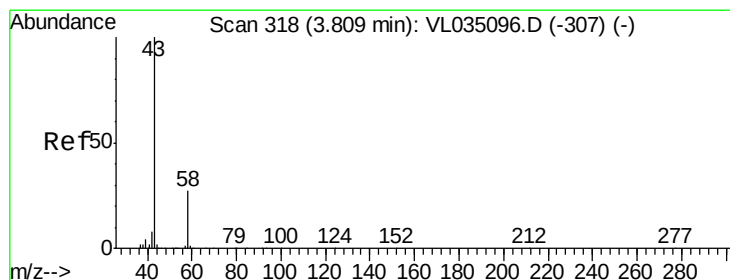
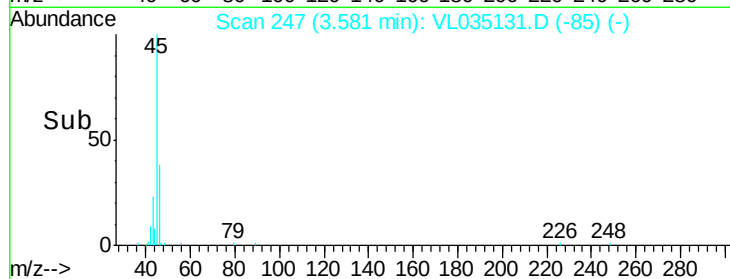
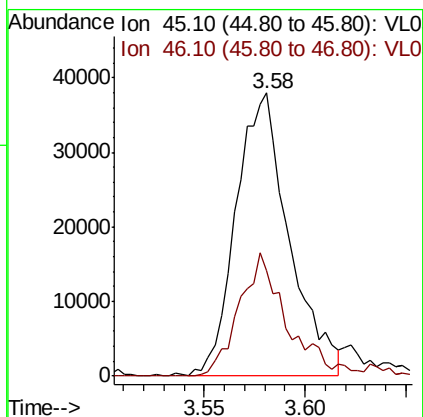
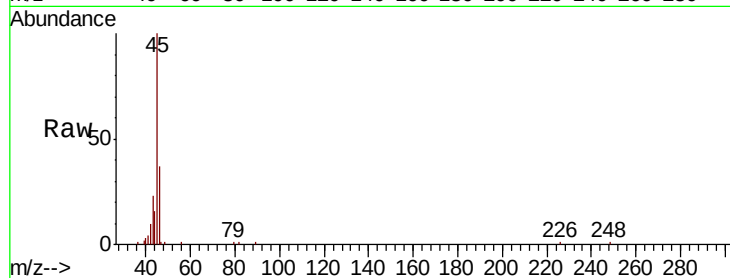




#13  
Ethanol  
Concen: 3.274 ppbv  
RT: 3.58 min Scan# 247  
Delta R.T. 0.02 min  
Lab File: VL035131.D  
Acq: 30 Jun 2020 18:55

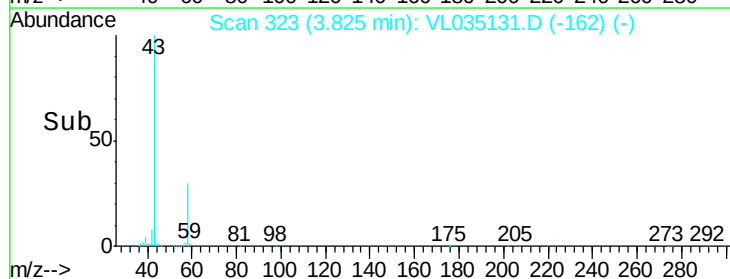
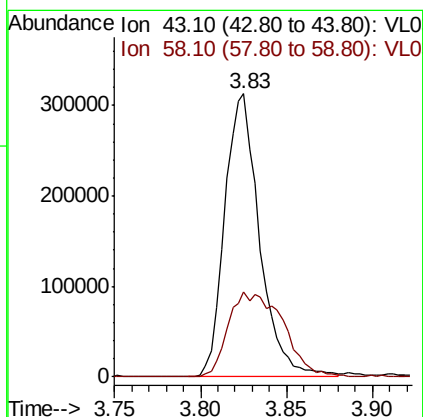
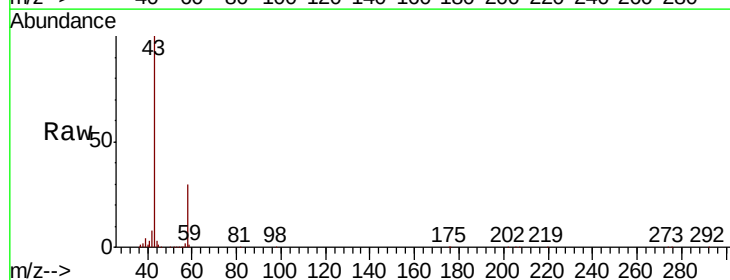
Instrument :  
MSVOA\_L  
ClientSampleId :

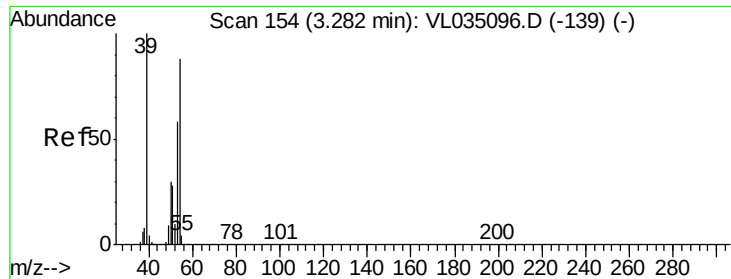
Tot Ion: 45 Resp: 69996  
Ion Ratio Lower Upper  
45 100  
46 40.7 14.2 57.0



#15  
Acetone  
Concen: 2.820 ppbv  
RT: 3.83 min Scan# 323  
Delta R.T. 0.02 min  
Lab File: VL035131.D  
Acq: 30 Jun 2020 18:55

Tgt Ion: 43 Resp: 441202  
Ion Ratio Lower Upper  
43 100  
58 47.0 21.8 32.6#

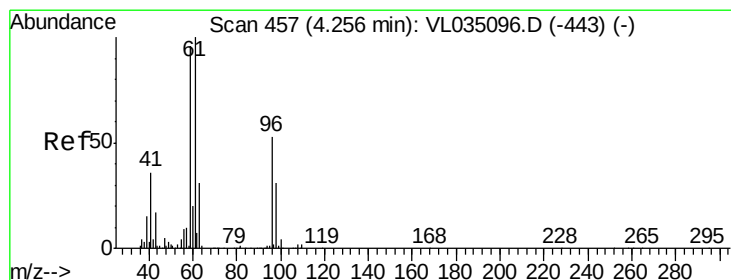
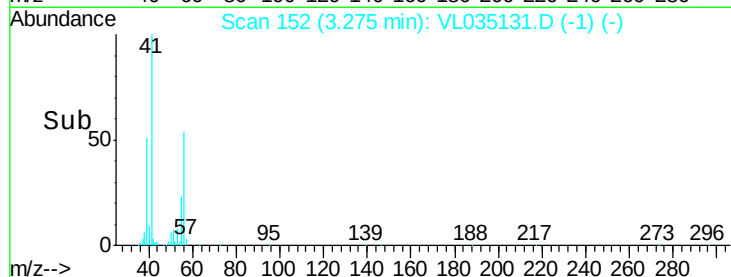
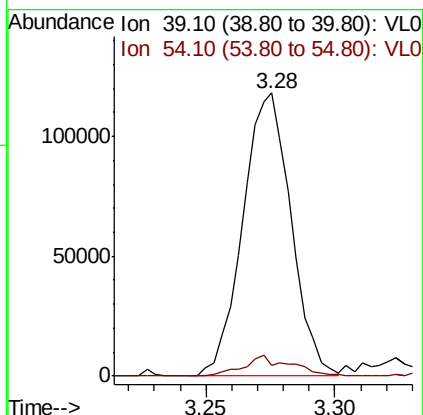
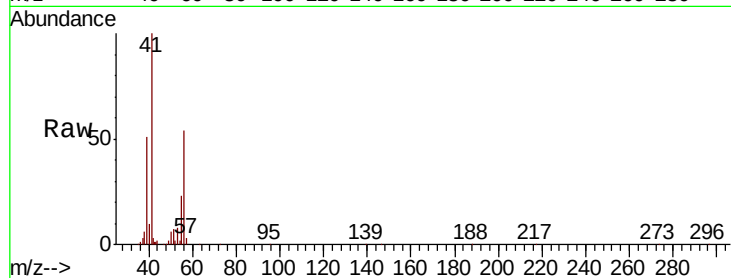




#16  
 1,3-Butadiene  
 Concen: 2.249 ppbv  
 RT: 3.28 min Scan# 152  
 Delta R.T. -0.01 min  
 Lab File: VL035131.D  
 Acq: 30 Jun 2020 18:55

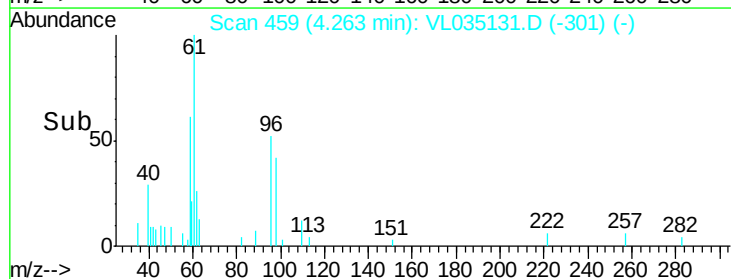
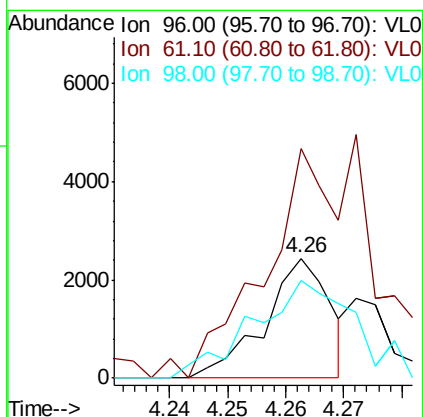
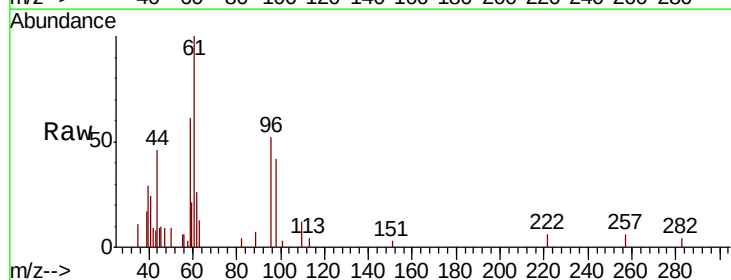
Instrument :  
 MSVOA\_L  
 ClientSampleID :

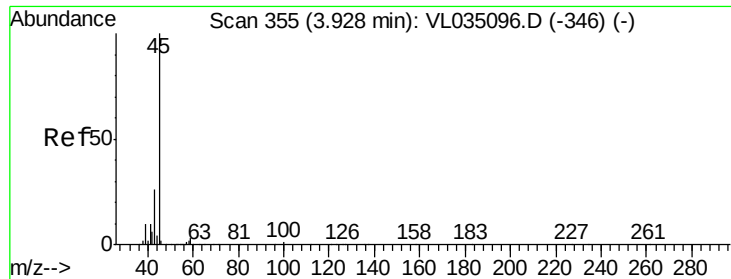
Tot Ion: 39 Resp: 154278  
 Ion Ratio Lower Upper  
 39 100  
 54 7.2 67.0 100.4#



#18  
 1,1-Dichloroethene  
 Concen: 0.033 ppbv  
 RT: 4.26 min Scan# 459  
 Delta R.T. 0.01 min  
 Lab File: VL035131.D  
 Acq: 30 Jun 2020 18:55

Tgt Ion: 96 Resp: 1903  
 Ion Ratio Lower Upper  
 96 100  
 61 241.6 152.2 228.4#  
 98 70.5 47.7 71.5





#19

Isopropyl Alcohol

Concen: 1.831 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.02 min

Lab File: VL035131.D

Acq: 30 Jun 2020 18:55

Instrument :

MSVOA\_L

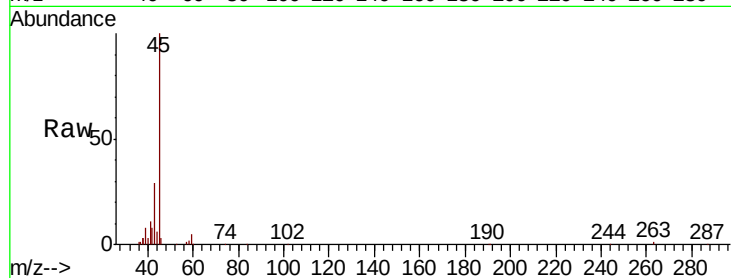
ClientSampled :

Tot Ion: 45 Resp: 185995

Ion Ratio Lower Upper

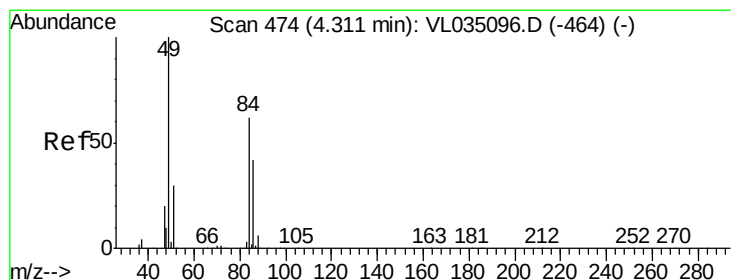
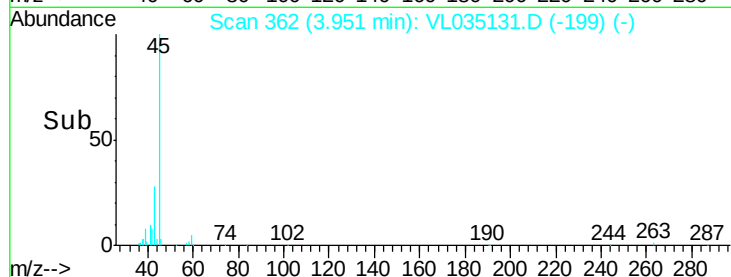
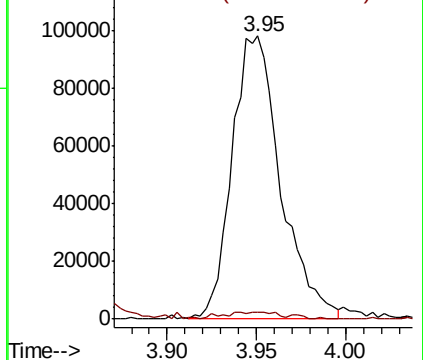
45 100

58 111.3 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.619 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL035131.D

Acq: 30 Jun 2020 18:55

Tgt Ion: 84 Resp: 39179

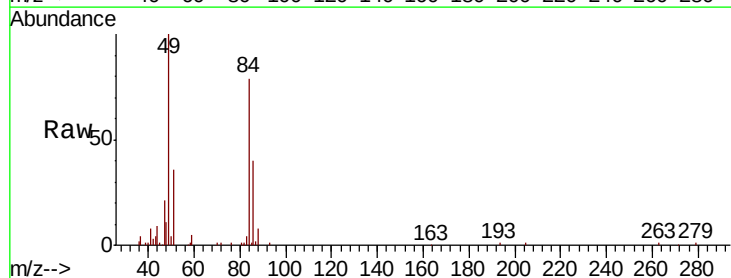
Ion Ratio Lower Upper

84 100

49 122.9 128.8 193.2#

51 44.0 38.7 58.1

86 48.1 54.1 81.1#

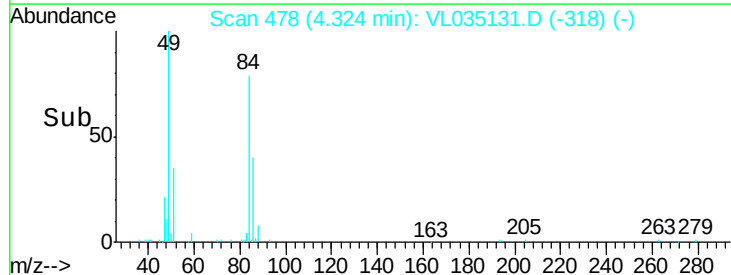
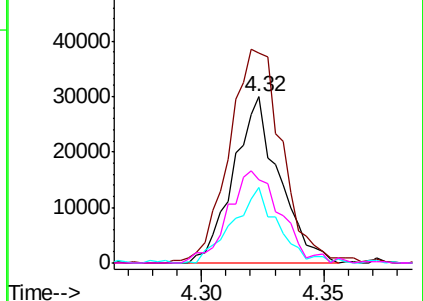


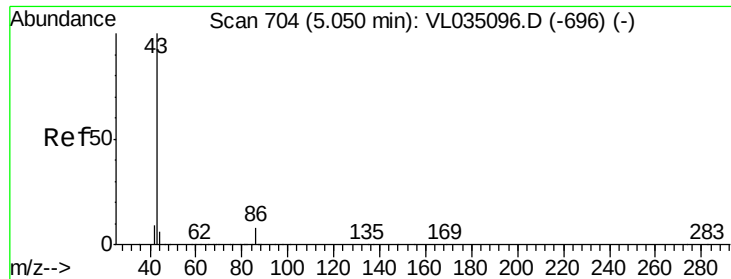
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

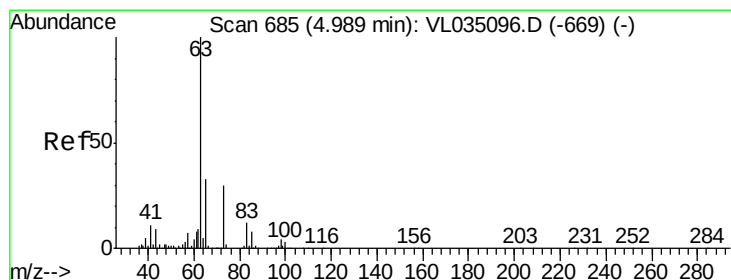
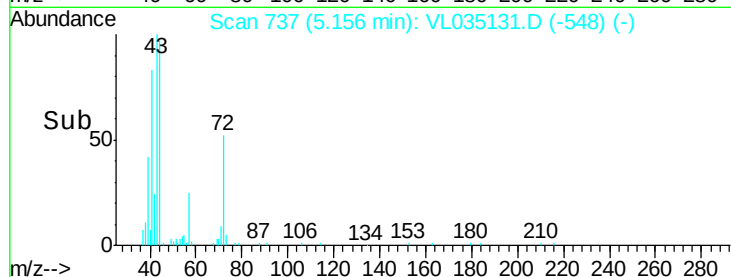
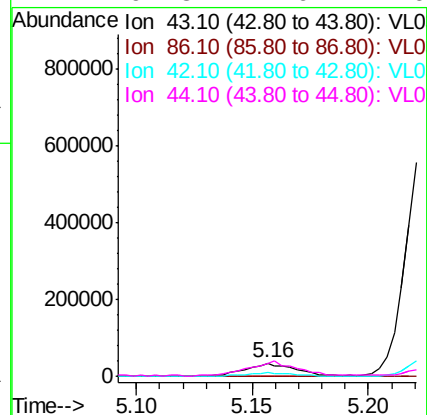
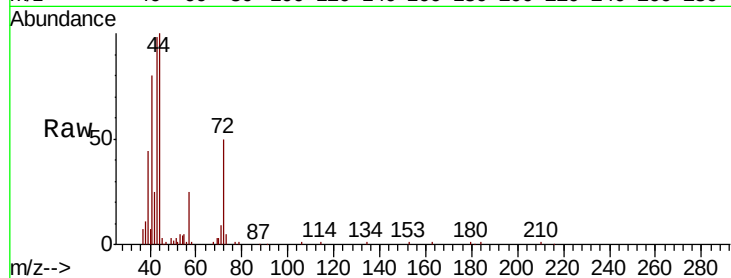




#23  
 Vinyl Acetate  
 Concen: 0.265 ppbv  
 RT: 5.16 min Scan# 737  
 Delta R.T. 0.11 min  
 Lab File: VL035131.D  
 Acq: 30 Jun 2020 18:55

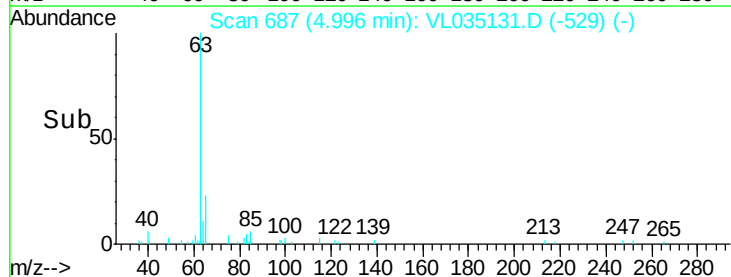
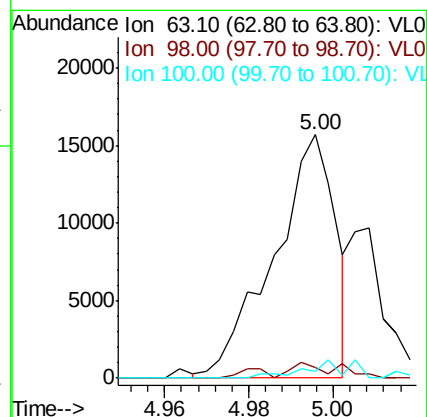
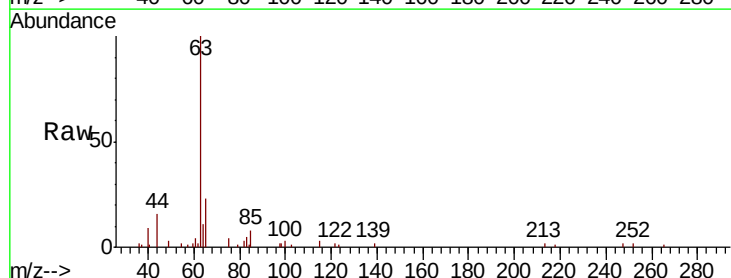
Instrument :  
 MSVOA\_L  
 ClientSampleId :

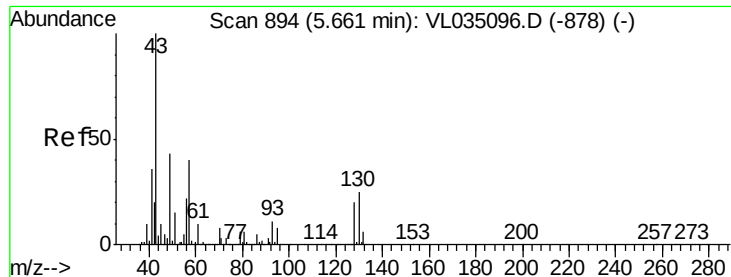
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 50325 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 6.2   | 9.2#  |
| 42       | 25.2  | 8.1   | 12.1# |
| 44       | 97.3  | 4.6   | 7.0#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.100 ppbv  
 RT: 5.00 min Scan# 687  
 Delta R.T. 0.01 min  
 Lab File: VL035131.D  
 Acq: 30 Jun 2020 18:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 15945 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.7   | 2.3   | 6.9   |
| 100      | 3.0   | 1.4   | 4.0   |





#25

Ethyl Acetate

Concen: 5.025 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.43 min

Lab File: VL035131.D

Acq: 30 Jun 2020 18:55

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 43 Resp: 1418535

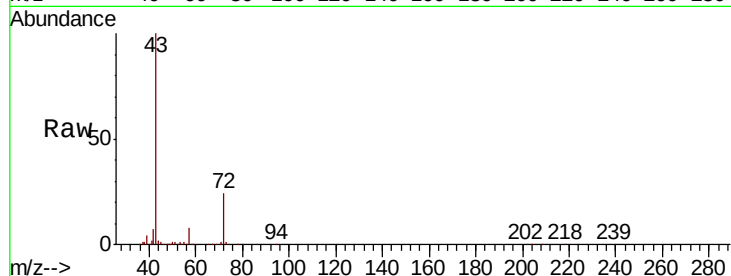
Ion Ratio Lower Upper

43 100

45 0.7 8.4 12.6#

61 0.0 8.0 12.0#

70 0.3 6.3 9.5#

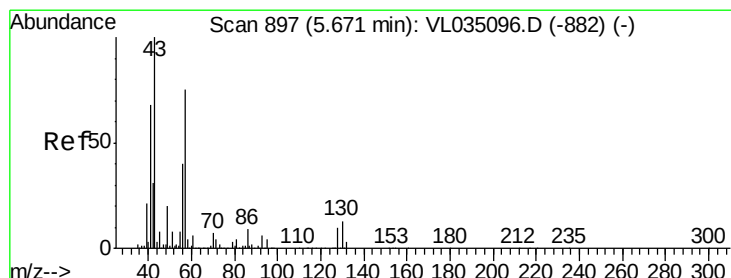
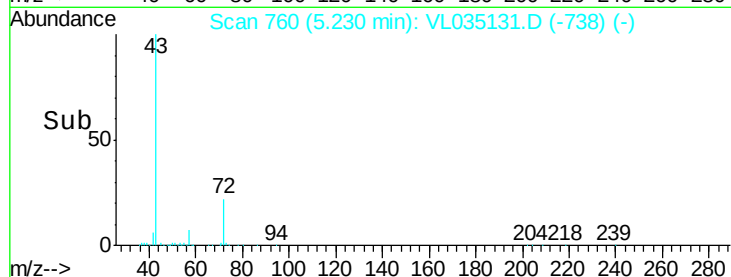
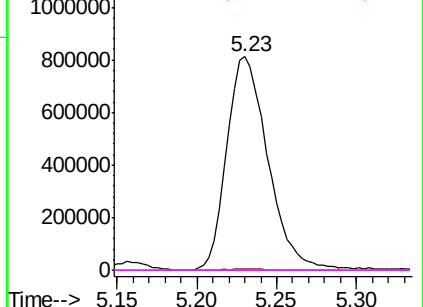


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.083 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL035131.D

Acq: 30 Jun 2020 18:55

Tgt Ion: 57 Resp: 10514

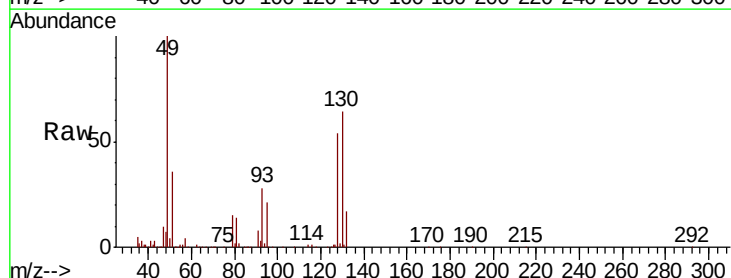
Ion Ratio Lower Upper

57 100

41 165.0 72.9 109.3#

43 0.0 181.3 271.9#

56 94.0 43.1 64.7#

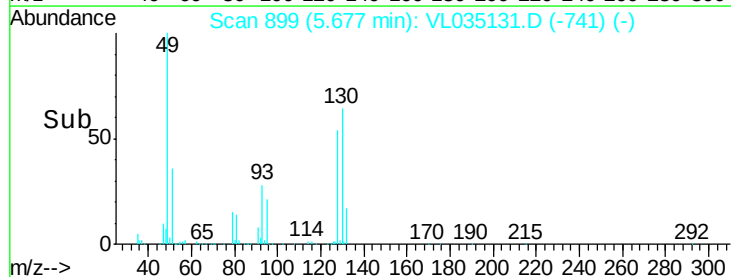
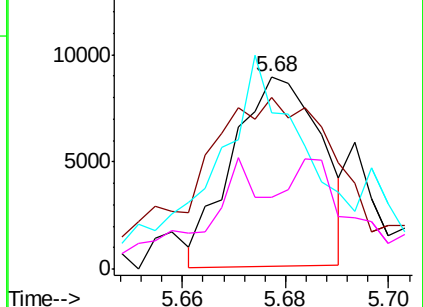


Abundance Ion 57.10 (56.80 to 57.80): VL0

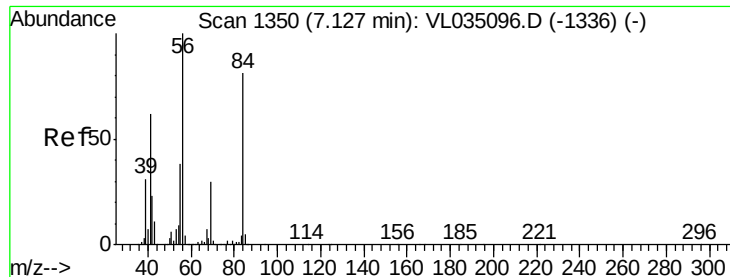
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



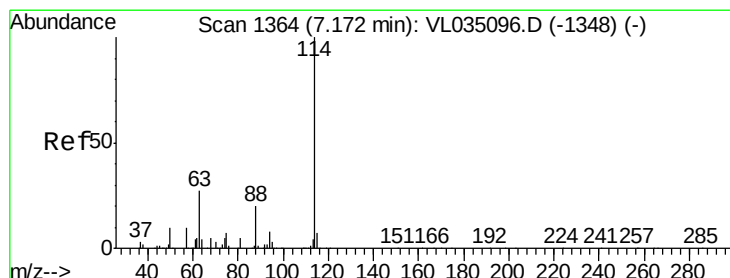
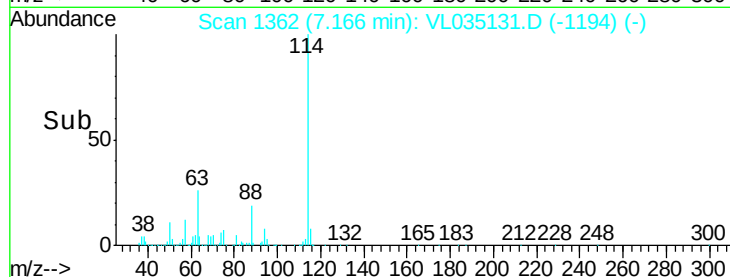
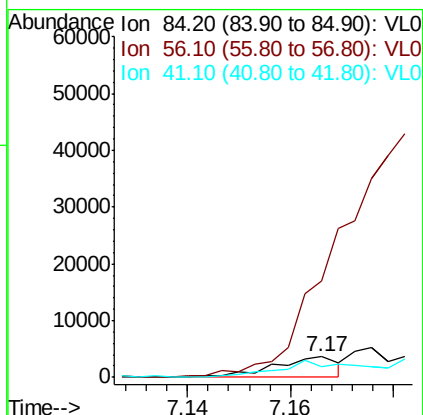
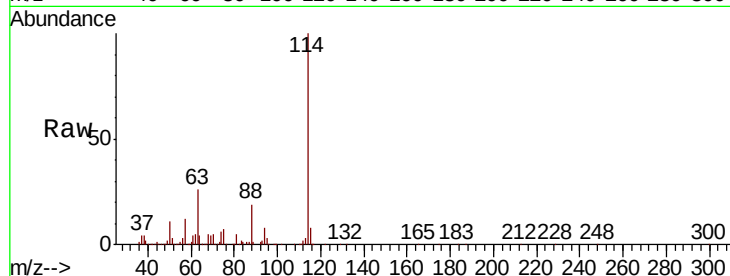




#30  
Cvclohexane  
Concen: 0.034 ppbv  
RT: 7.17 min Scan# 1362  
Delta R.T. 0.04 min  
Lab File: VL035131.D  
Acq: 30 Jun 2020 18:55

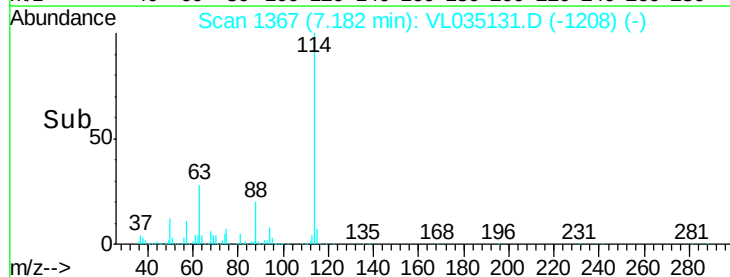
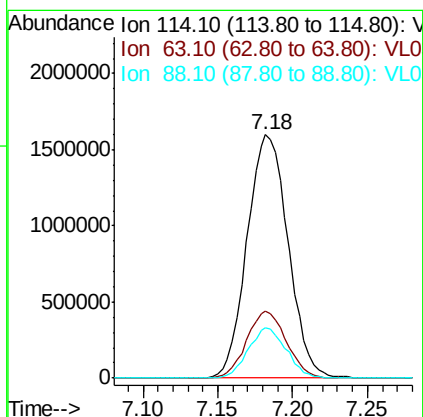
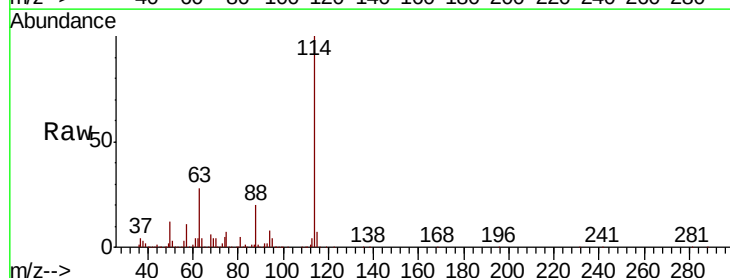
Instrument :  
MSVOA\_L  
ClientSampled :

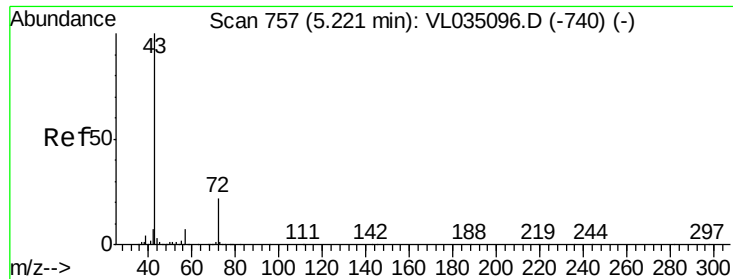
Tot Ion: 84 Resp: 3084  
Ion Ratio Lower Upper  
84 100  
56 0.0 108.0 162.0#  
41 0.0 65.6 98.4#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.18 min Scan# 1367  
Delta R.T. 0.01 min  
Lab File: VL035131.D  
Acq: 30 Jun 2020 18:55

Tgt Ion: 114 Resp: 3044564  
Ion Ratio Lower Upper  
114 100  
63 26.8 21.9 32.9  
88 19.3 15.6 23.4

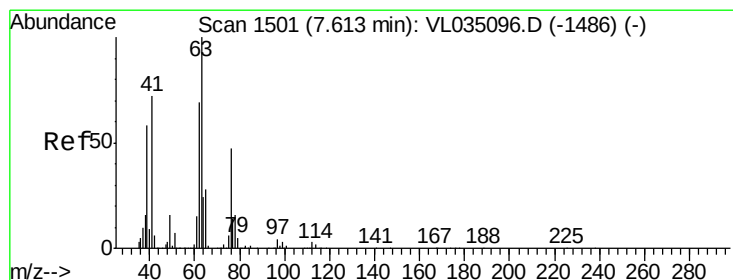
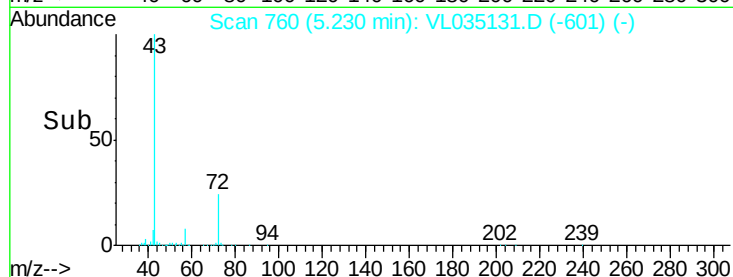
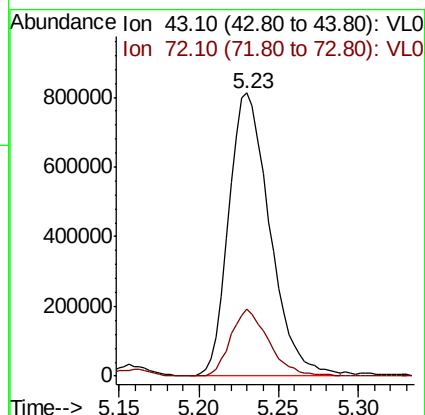
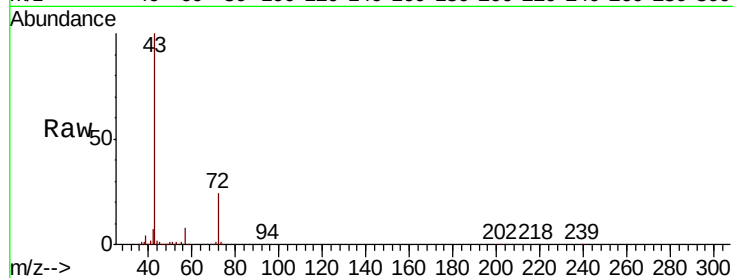




#34  
 2-Butanone  
 Concen: 8.113 ppbv  
 RT: 5.23 min Scan# 760  
 Delta R.T. 0.01 min  
 Lab File: VL035131.D  
 Acq: 30 Jun 2020 18:55

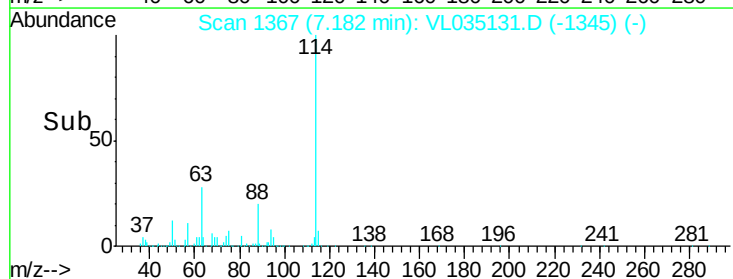
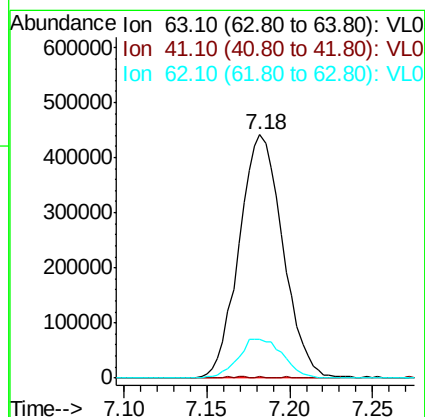
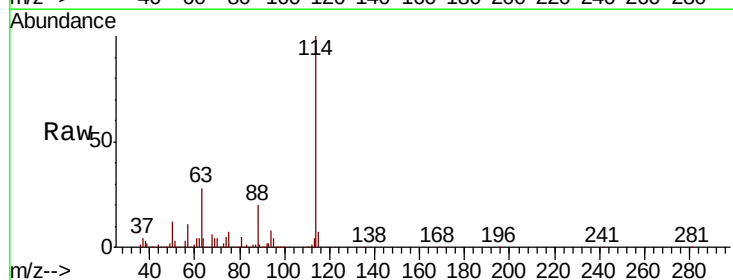
Instrument :  
 MSVOA\_L  
 ClientSampleId :

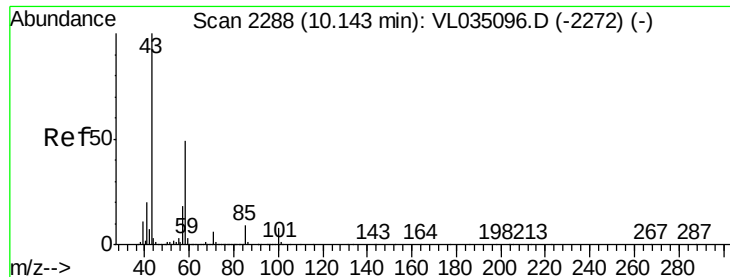
Tot Ion: 43 Resp: 1418535  
 Ion Ratio Lower Upper  
 43 100  
 72 22.2 18.3 27.5



#39  
 1,2-Dichloropropane  
 Concen: 8.739 ppbv  
 RT: 7.18 min Scan# 1367  
 Delta R.T. -0.43 min  
 Lab File: VL035131.D  
 Acq: 30 Jun 2020 18:55

Tgt Ion: 63 Resp: 805772  
 Ion Ratio Lower Upper  
 63 100  
 41 0.8 58.0 87.0#  
 62 16.0 55.4 83.0#

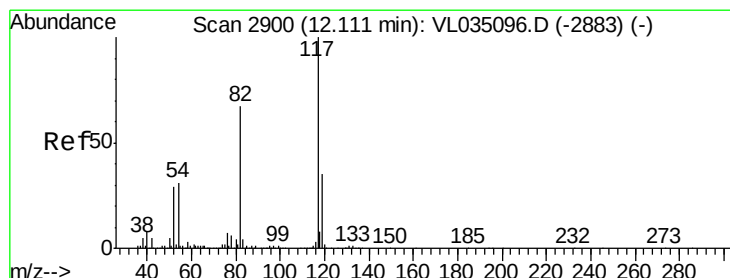
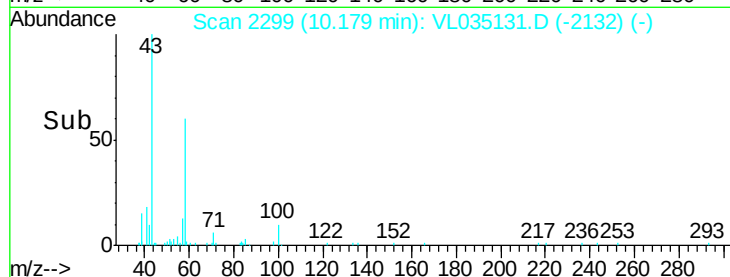
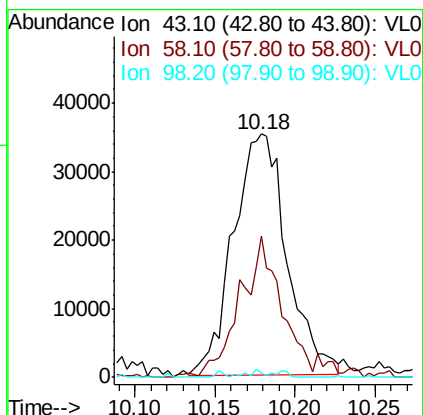
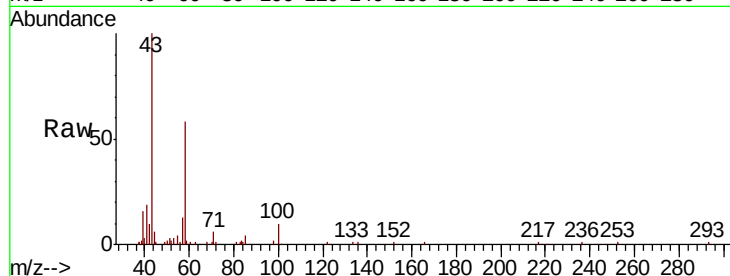




#51  
2-Hexanone  
Concen: 0.415 ppbv  
RT: 10.18 min Scan# 2299  
Delta R.T. 0.04 min  
Lab File: VL035131.D  
Acq: 30 Jun 2020 18:55

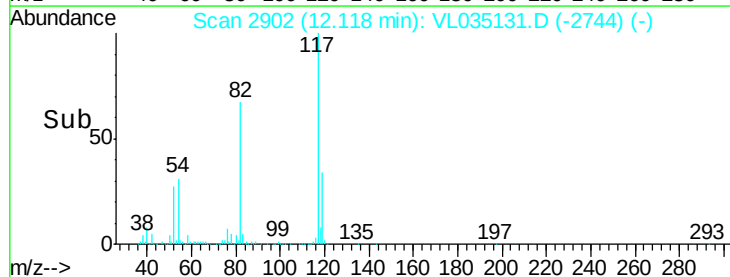
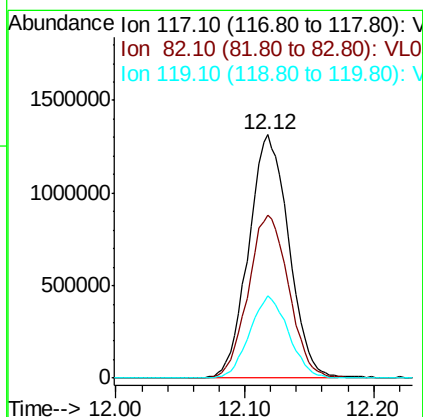
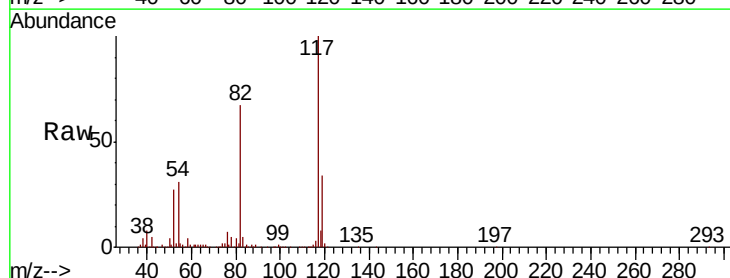
Instrument :  
MSVOA\_L  
ClientSampled :

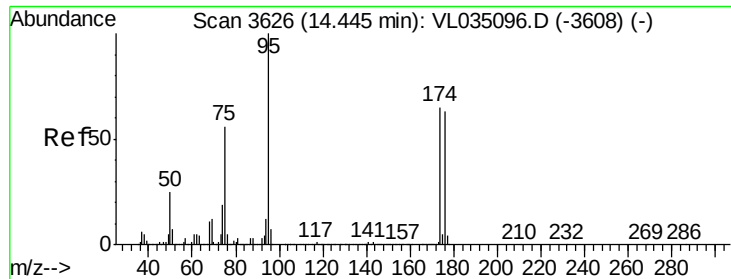
Tot Ion: 43 Resp: 80736  
Ion Ratio Lower Upper  
43 100  
58 49.4 39.2 58.8  
98 1.9 0.3 0.5#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. 0.01 min  
Lab File: VL035131.D  
Acq: 30 Jun 2020 18:55

Tgt Ion: 117 Resp: 2855347  
Ion Ratio Lower Upper  
117 100  
82 67.8 50.4 75.6  
119 32.8 25.4 38.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.037 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.01 min

Lab File: VL035131.D

Acq: 30 Jun 2020 18:55

Instrument :

MSVOA\_L

ClientSampleId :

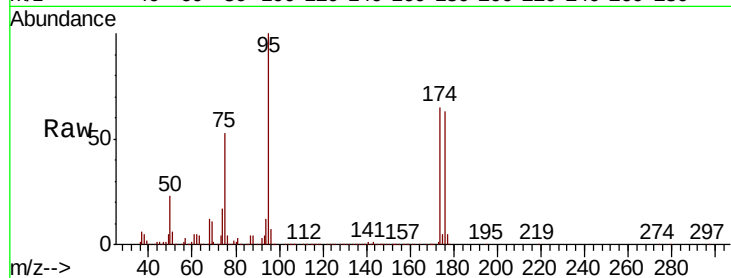
Tot Ion: 95 Resp: 2380585

Ion Ratio Lower Upper

95 100

174 66.8 52.2 78.2

175 5.0 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

