

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL031720\  
 Data File : VL034918.D  
 Acq On : 17 Mar 2020 16:44  
 Operator : SY/AP  
 Sample : L1952-01DL 10X  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1DL

Quant Time: Mar 18 06:59:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL030920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Mar 09 16:42:53 2020  
 QLast Update : Mon Mar 09 16:42:53 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1029541  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2212751  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2209354  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 1828119  | 10.61    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.10% |

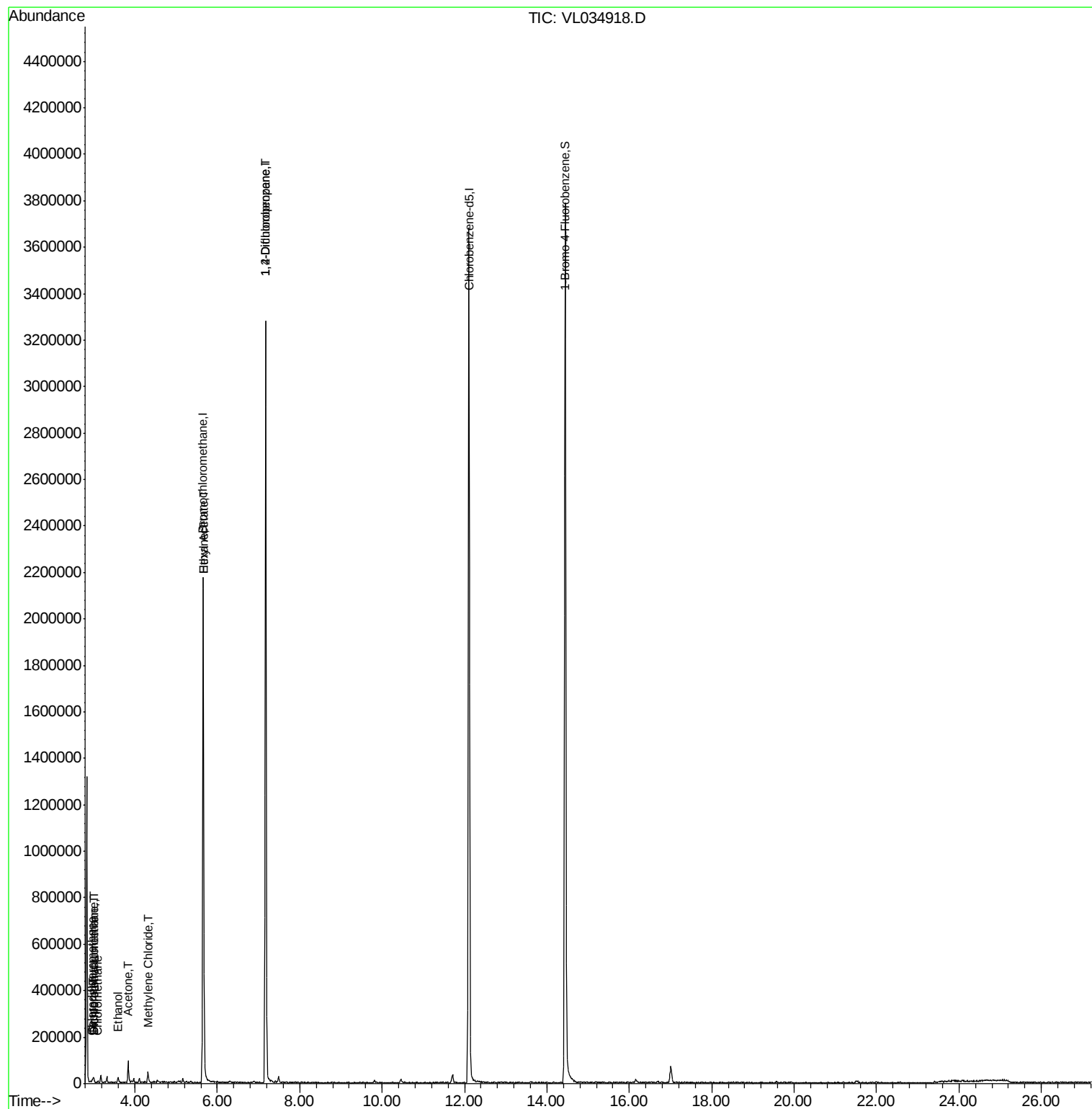
| Target Compounds             | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane   | 3.01 | 85   | 8369     | 0.059 | ppbv   | 99     |
| 3) Chlorodifluoromethane     | 2.95 | 51   | 6724     | 0.058 | ppbv # | 83     |
| 4) Chloromethane             | 3.10 | 50   | 3586     | 0.055 | ppbv # | 66     |
| 8) Dichlorotetrafluoroethane | 3.01 | 85   | 8369     | 0.057 | ppbv # | 17     |
| 9) Propene                   | 2.97 | 41   | 1667     | 0.030 | ppbv # | 15     |
| 13) Ethanol                  | 3.58 | 45   | 10659    | 0.639 | ppbv # | 35     |
| 15) Acetone                  | 3.83 | 43   | 79778    | 0.598 | ppbv # | 89     |
| 20) Methylene Chloride       | 4.32 | 84   | 10339    | 0.245 | ppbv   | 94     |
| 25) Ethyl Acetate            | 5.67 | 43   | 12111    | 0.051 | ppbv # | 79     |
| 26) Hexane                   | 5.67 | 57   | 14112    | 0.138 | ppbv # | 1      |
| 39) 1,2-Dichloropropane      | 7.17 | 63   | 602966   | 7.716 | ppbv # | 22     |

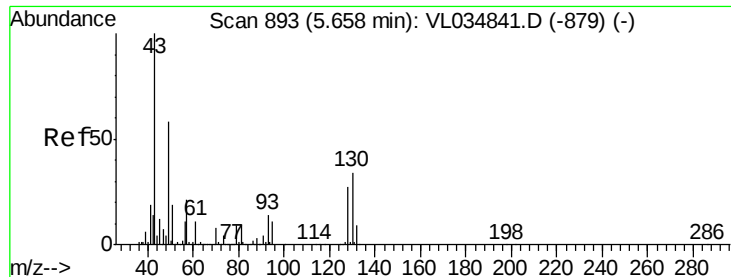
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1DL

Quant Time: Mar 18 06:59:24 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL030920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 09 16:42:53 2020  
QLast Update : Mon Mar 09 16:42:53 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Instrument :

MSVOA\_L

ClientSampleId :

AA-1DL

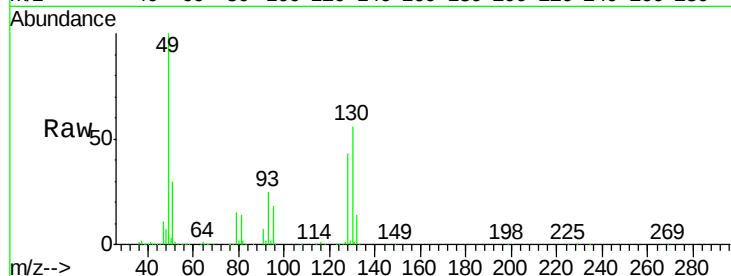
Tgt Ion: 49 Resp: 1029541

Ion Ratio Lower Upper

49 100

128 44.7 23.4 70.3

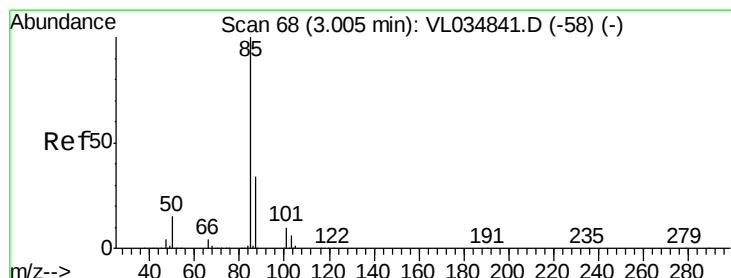
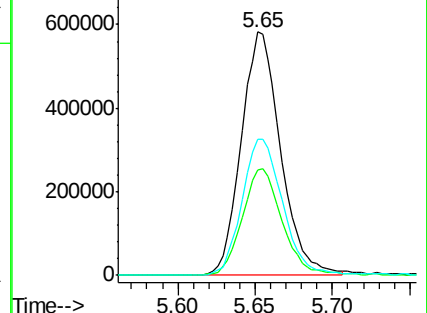
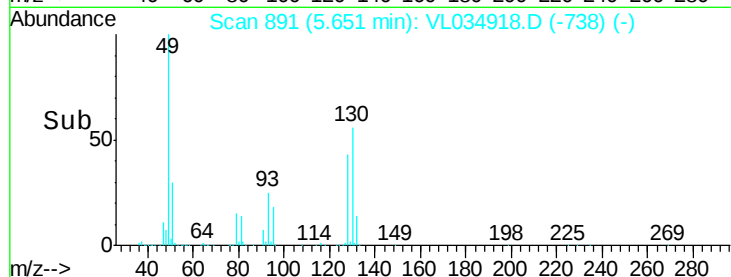
130 58.6 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034918.D

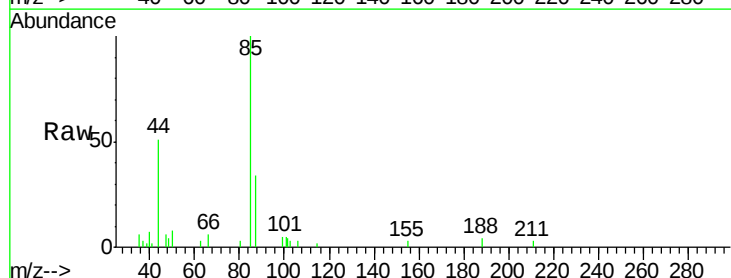
Acq: 17 Mar 2020 16:44

Tgt Ion: 85 Resp: 8369

Ion Ratio Lower Upper

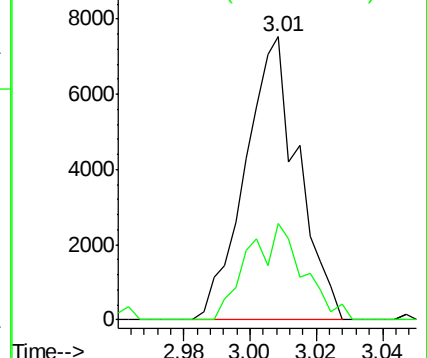
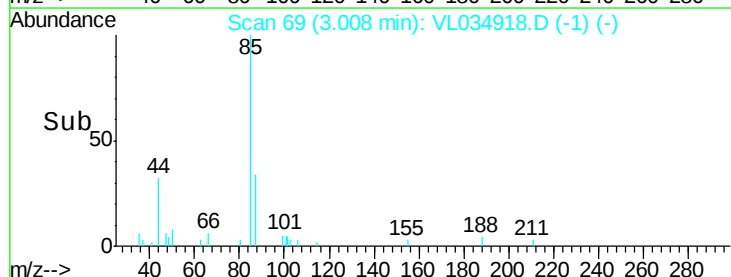
85 100

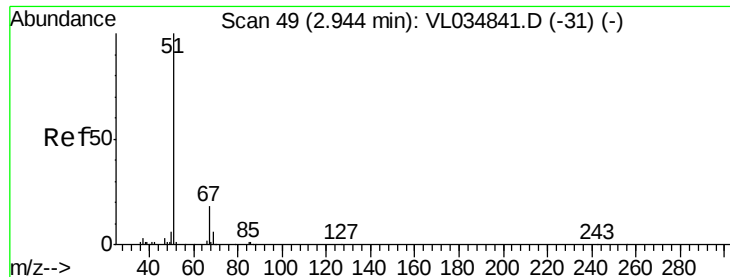
87 34.3 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.058 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Instrument :

MSVOA\_L

ClientSampleId :

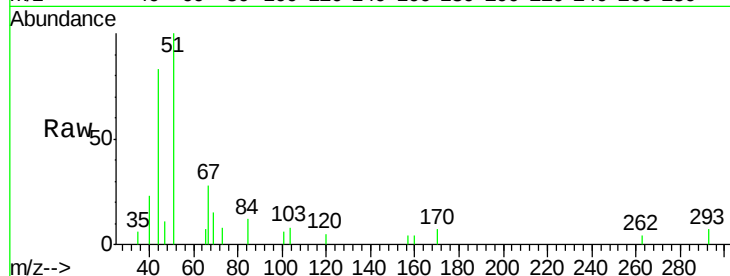
AA-1DL

Tgt Ion: 51 Resp: 6724

Ion Ratio Lower Upper

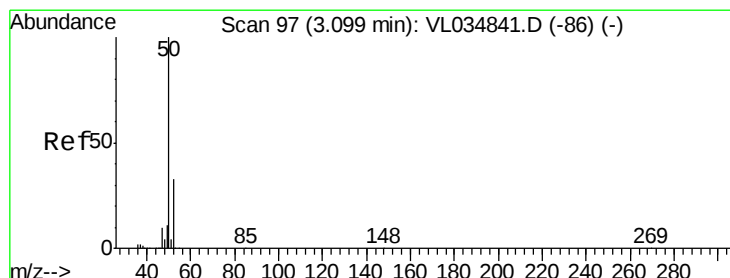
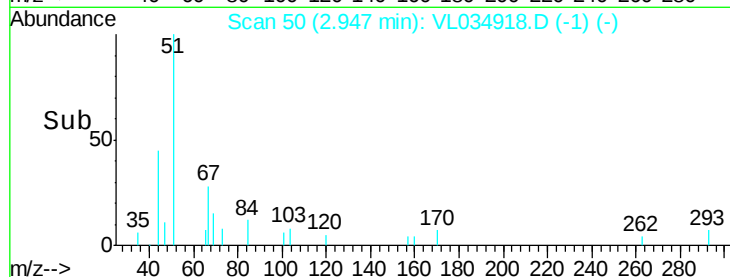
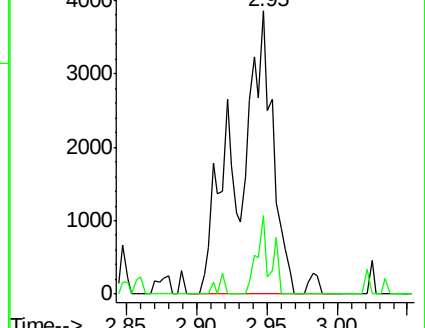
51 100

67 10.3 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: 0.055 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034918.D

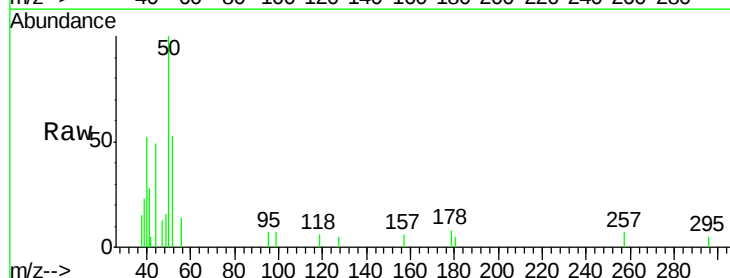
Acq: 17 Mar 2020 16:44

Tgt Ion: 50 Resp: 3586

Ion Ratio Lower Upper

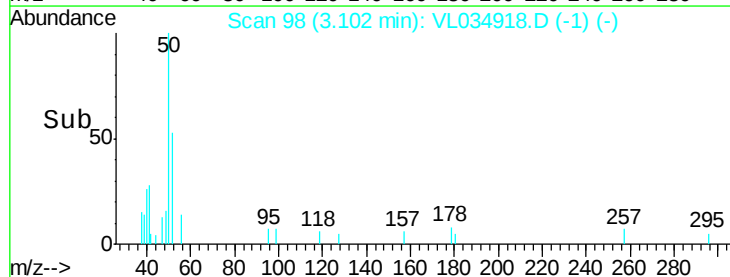
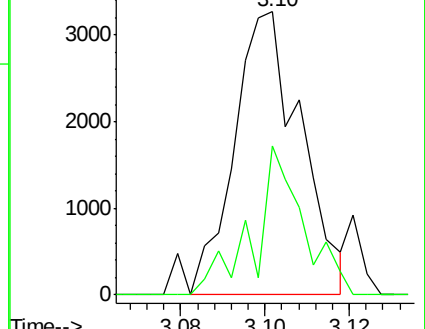
50 100

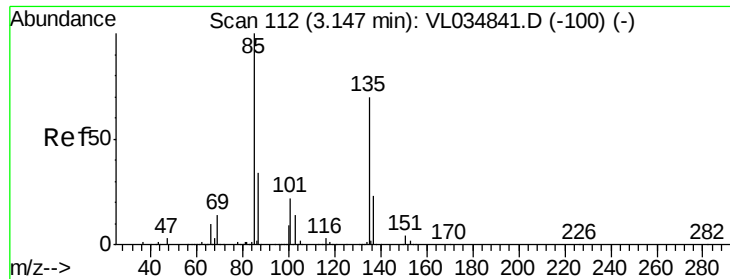
52 52.6 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.057 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.14 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Instrument :

MSVOA\_L

ClientSampleId :

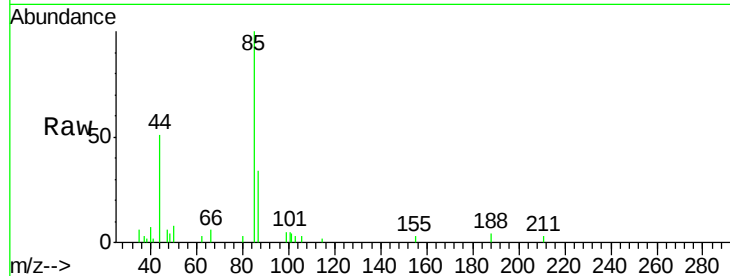
AA-1DL

Tgt Ion: 85 Resp: 8369

Ion Ratio Lower Upper

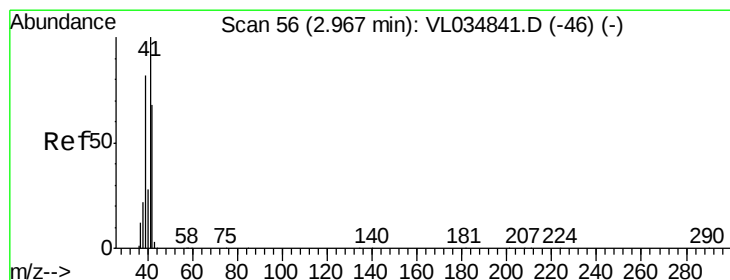
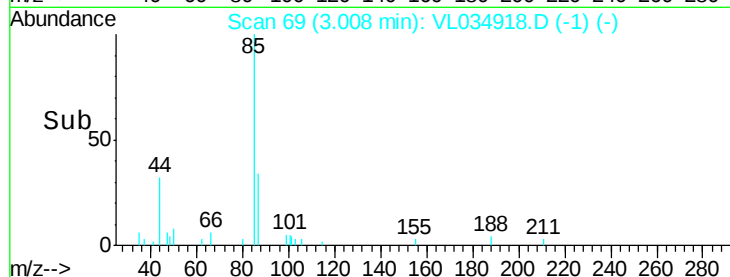
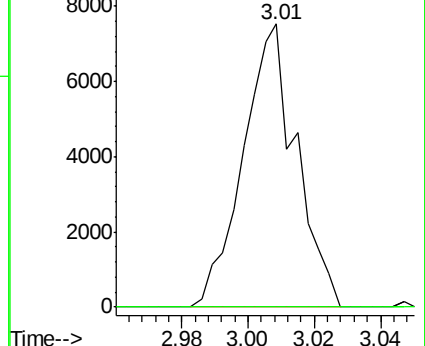
85 100

135 1.2 54.3 81.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.030 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL034918.D

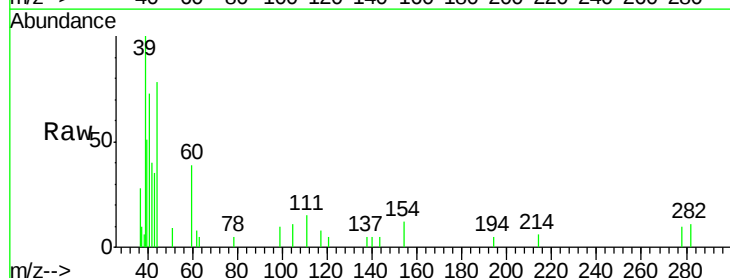
Acq: 17 Mar 2020 16:44

Tgt Ion: 41 Resp: 1667

Ion Ratio Lower Upper

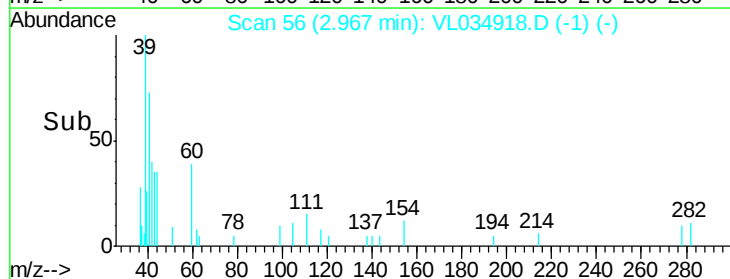
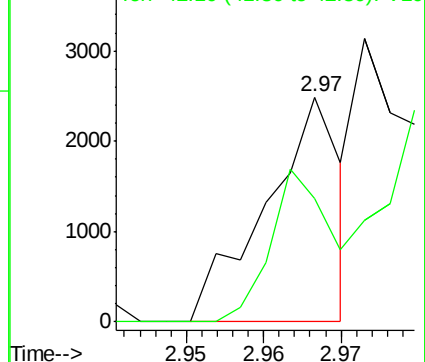
41 100

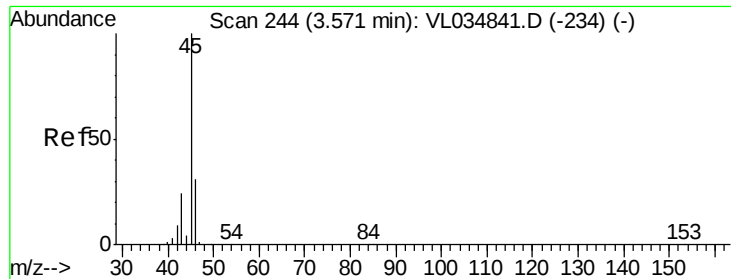
42 0.0 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.639 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Instrument :

MSVOA\_L

ClientSampleId :

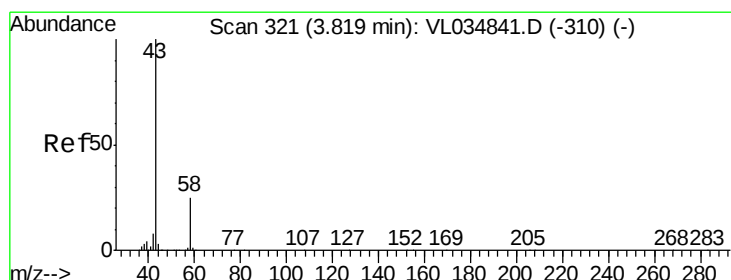
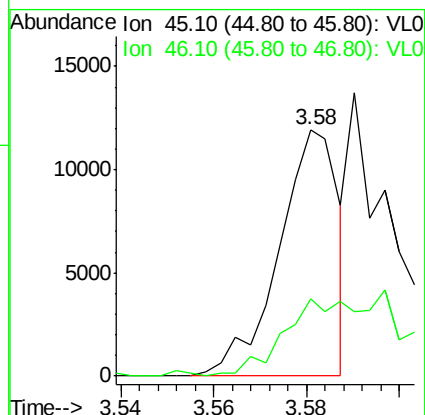
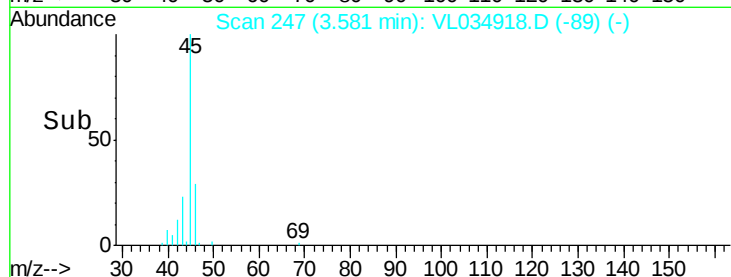
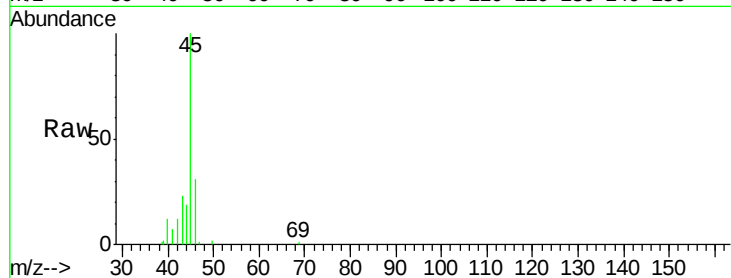
AA-1DL

Tgt Ion: 45 Resp: 10659

Ion Ratio Lower Upper

45 100

46 0.0 16.0 64.0#



#15

Acetone

Concen: 0.598 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.02 min

Lab File: VL034918.D

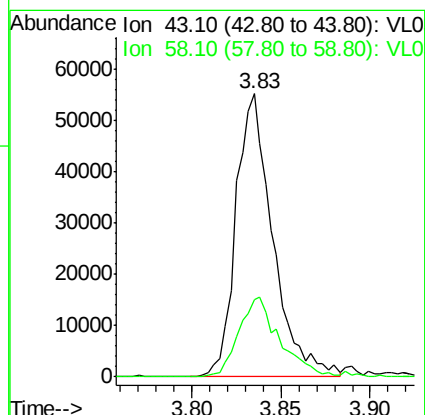
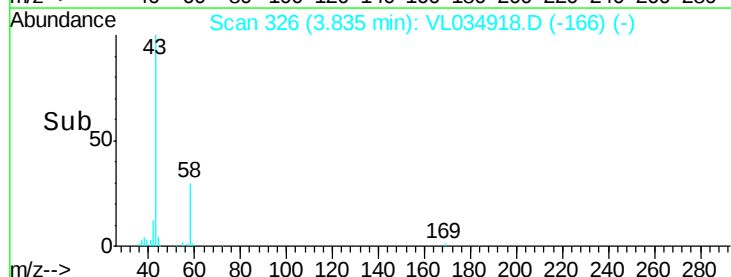
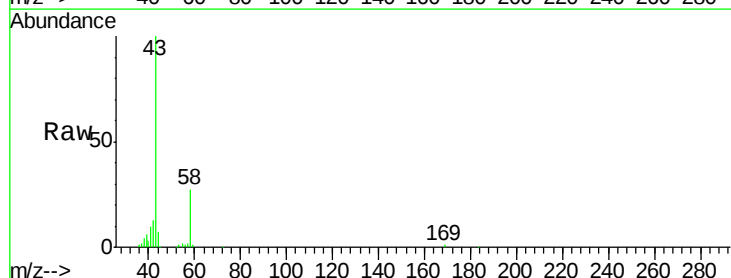
Acq: 17 Mar 2020 16:44

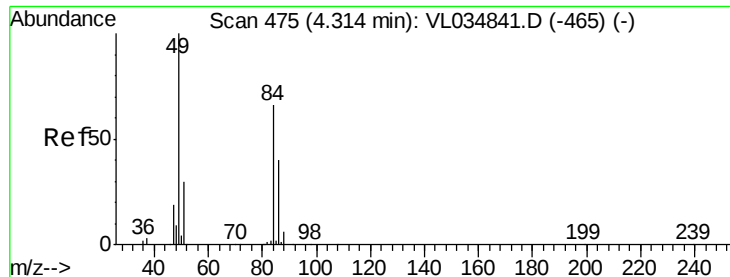
Tgt Ion: 43 Resp: 79778

Ion Ratio Lower Upper

43 100

58 31.8 21.0 31.6#





#20

Methylene Chloride

Concen: 0.245 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Instrument :

MSVOA\_L

ClientSampleId :

AA-1DL

Tgt Ion: 84 Resp: 10339

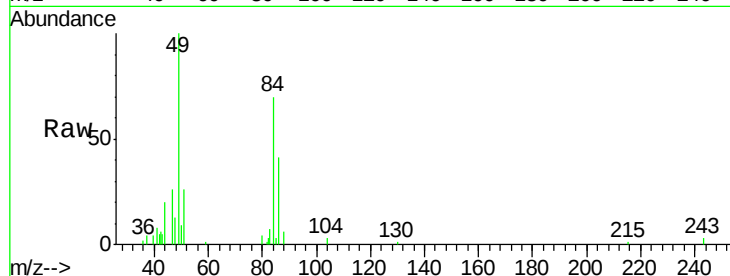
Ion Ratio Lower Upper

84 100

49 143.7 121.5 182.3

51 37.1 36.6 55.0

86 59.2 48.2 72.2

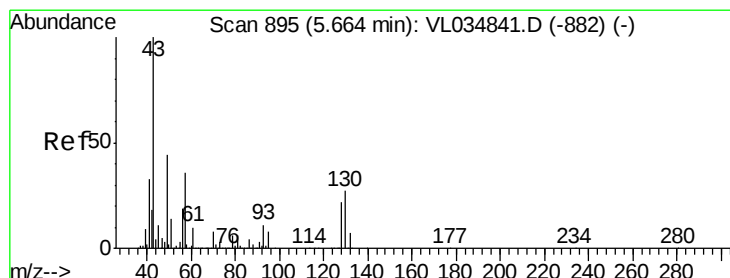
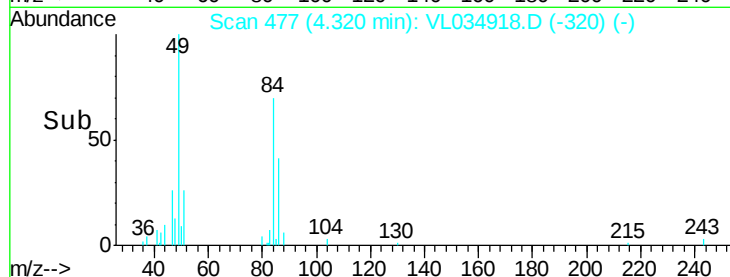
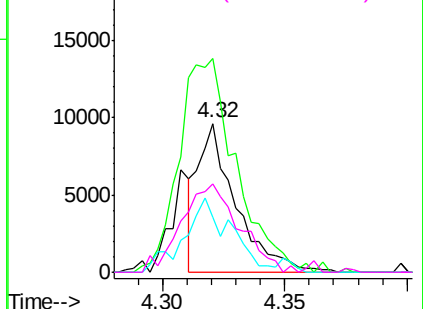


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.051 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Tgt Ion: 43 Resp: 12111

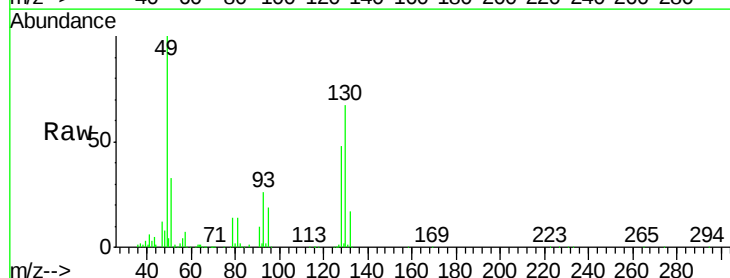
Ion Ratio Lower Upper

43 100

45 3.8 8.2 12.2#

61 0.0 7.8 11.6#

70 0.0 5.8 8.8#

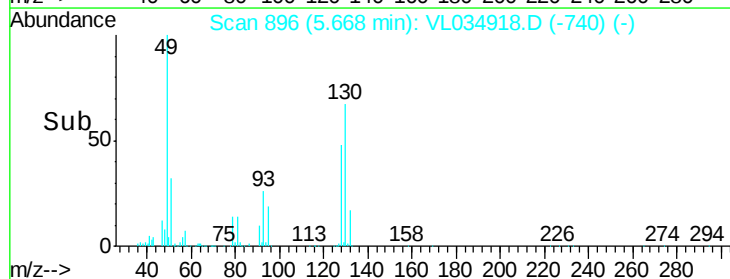
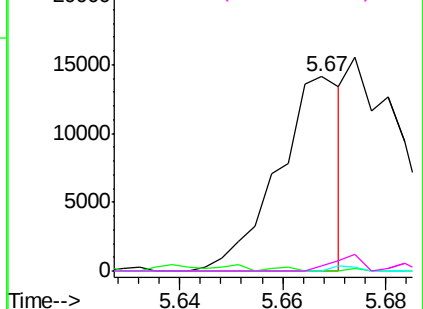


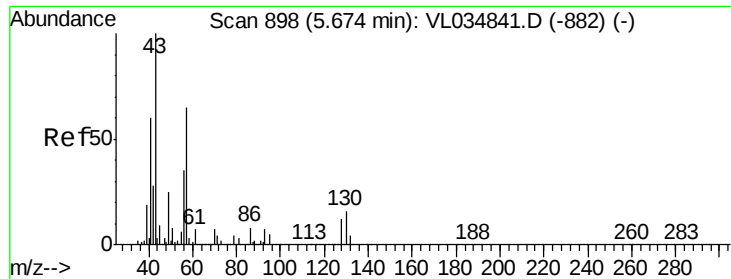
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

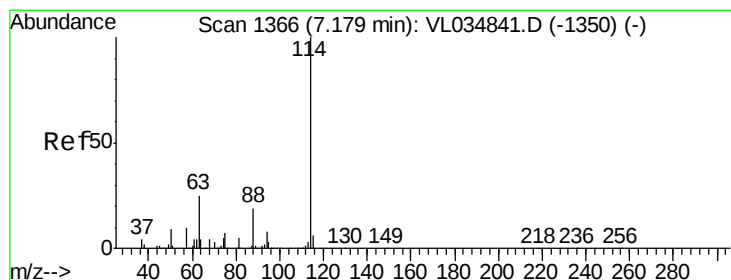
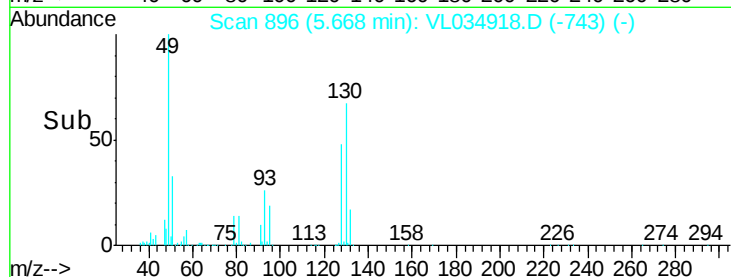
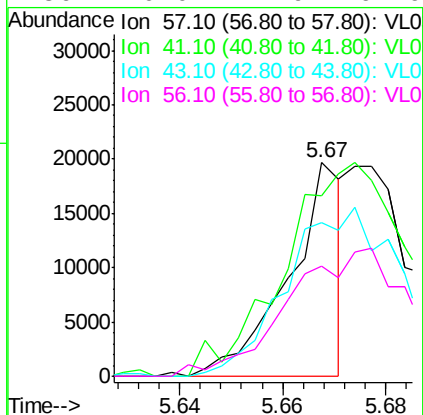
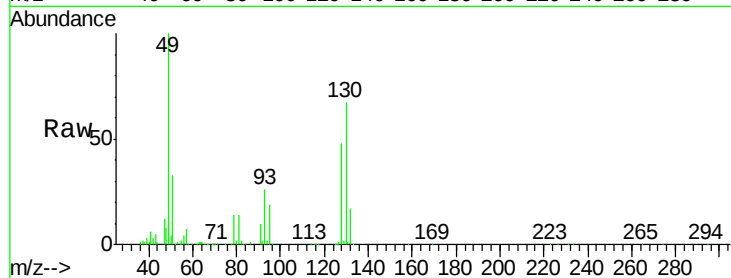




#26  
Hexane  
Concen: 0.138 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: VL034918.D  
Acq: 17 Mar 2020 16:44

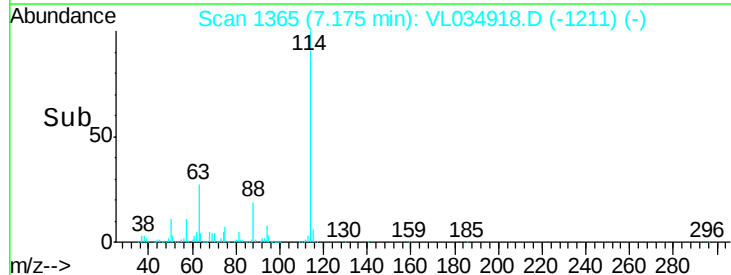
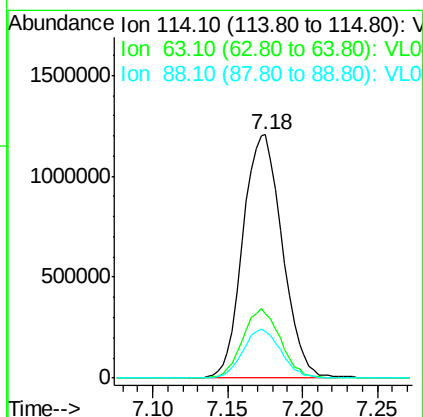
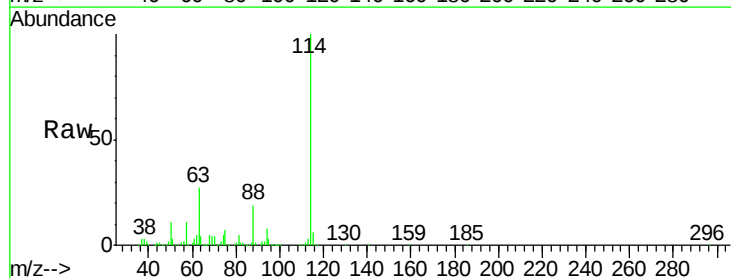
Instrument :  
MSVOA\_L  
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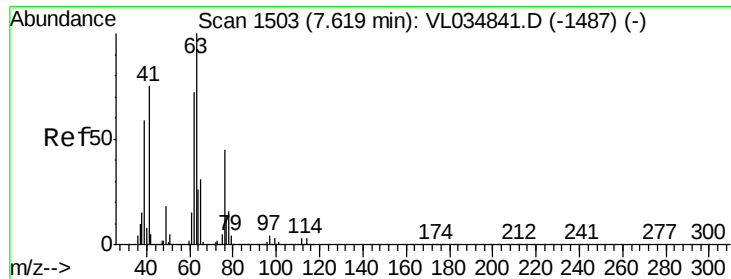
Tgt Ion: 57 Resp: 14112  
Ion Ratio Lower Upper  
57 100  
41 0.0 72.6 109.0#  
43 0.0 183.8 275.6#  
56 0.0 41.9 62.9#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.18 min Scan# 1365  
Delta R.T. -0.00 min  
Lab File: VL034918.D  
Acq: 17 Mar 2020 16:44

Tgt Ion: 114 Resp: 2212751  
Ion Ratio Lower Upper  
114 100  
63 27.5 20.6 31.0  
88 19.4 15.0 22.6

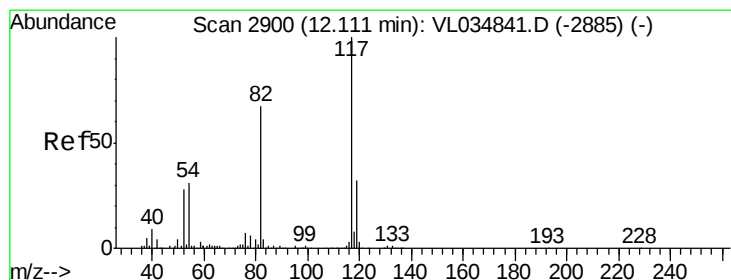
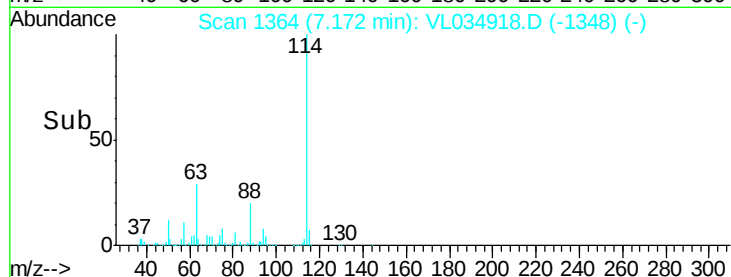
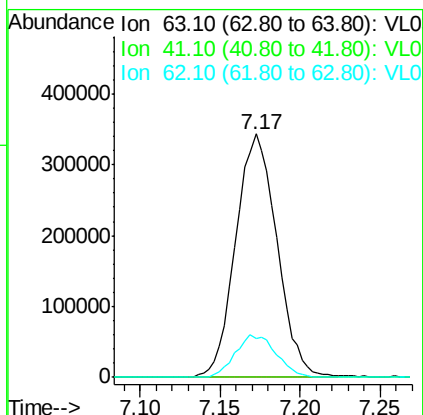
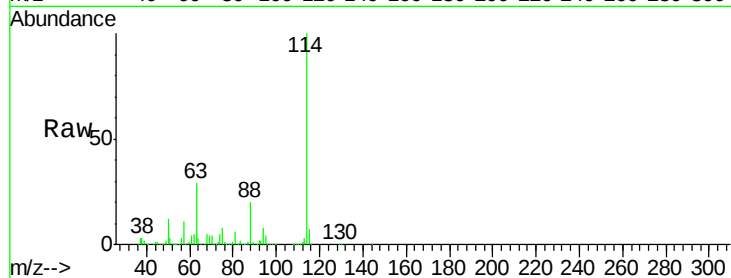




#39  
 1,2-Dichloropropane  
 Concen: 7.716 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.45 min  
 Lab File: VL034918.D  
 Acq: 17 Mar 2020 16:44

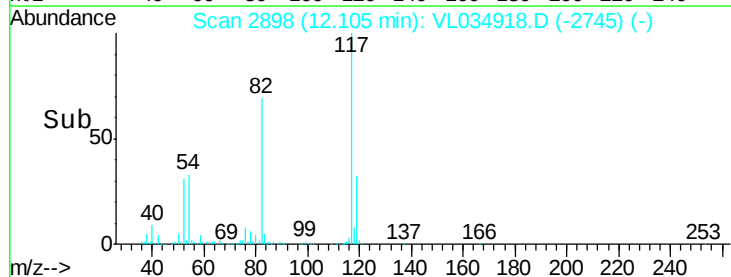
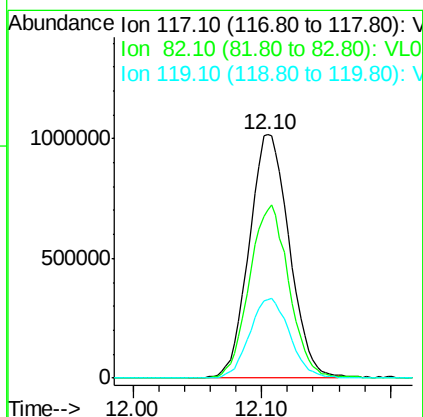
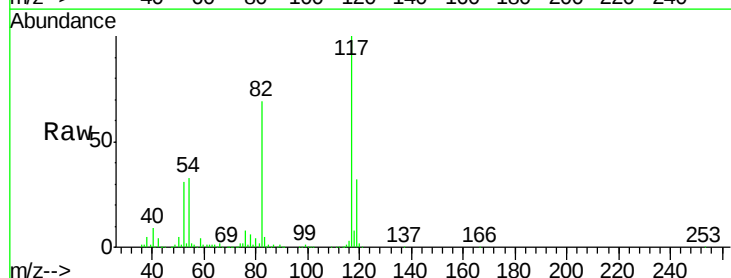
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1DL

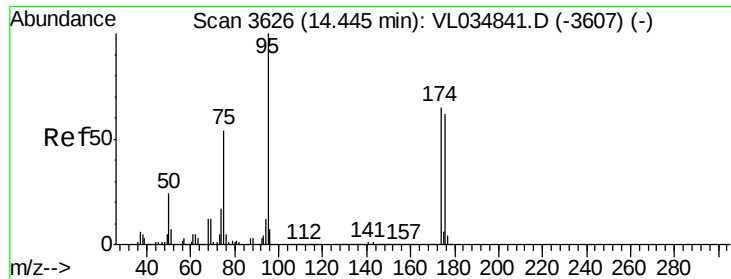
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.0   | 59.8  | 89.8# |
| 62      | 16.0  | 57.6  | 86.4# |



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.10 min Scan# 2898  
 Delta R.T. -0.01 min  
 Lab File: VL034918.D  
 Acq: 17 Mar 2020 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 70.6  | 51.1  | 76.7  |
| 119     | 32.9  | 27.3  | 40.9  |





#68

1-Bromo-4-Fluorobenzene

Concen: 10.610 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL034918.D

Acq: 17 Mar 2020 16:44

Instrument :

MSVOA\_L

ClientSampleId :

AA-1DL

Tgt Ion: 95 Resp: 1828119

Ion Ratio Lower Upper

95 100

174 64.8 55.2 82.8

175 4.7 4.3 6.5

