

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\  
 Data File : VL035763.D  
 Acq On : 12 Oct 2020 15:58  
 Operator : SY/AP  
 Sample : L4347-02DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 2DL

Quant Time: Oct 13 00:04:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 23 07:38:05 2020  
 QLast Update : Wed Sep 23 07:38:05 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1185619  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4599516  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 4544286  | 10.00 | ppbv  | -0.03    |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 3347457  | 9.83     | ppbv | -0.02  |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.30% |          |

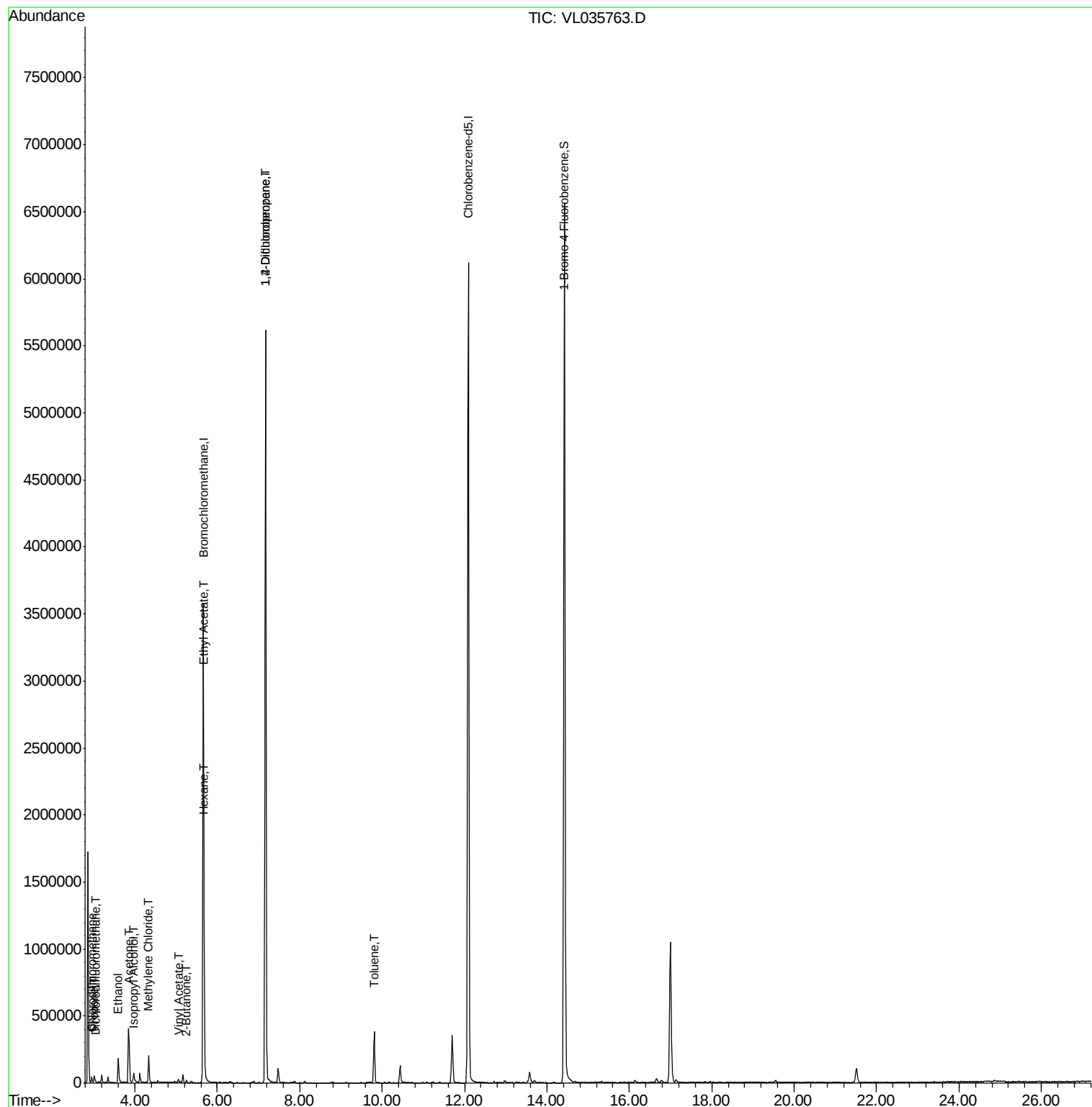
| Target Compounds           | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.04 | 85   | 6494     | 0.033  | ppbv   | 96     |
| 3) Chlorodifluoromethane   | 2.95 | 51   | 30627    | 0.240  | ppbv # | 66     |
| 9) Propene                 | 3.01 | 41   | 12338    | 0.266  | ppbv # | 71     |
| 13) Ethanol                | 3.59 | 45   | 185466   | 16.239 | ppbv   | 100    |
| 15) Acetone                | 3.84 | 43   | 403864   | 3.166  | ppbv   | 99     |
| 19) Isopropyl Alcohol      | 3.97 | 45   | 75760    | 1.092  | ppbv # | 92     |
| 20) Methylene Chloride     | 4.33 | 84   | 86939    | 0.928  | ppbv   | 98     |
| 23) Vinyl Acetate          | 5.05 | 43   | 8391     | 0.054  | ppbv # | 23     |
| 25) Ethyl Acetate          | 5.68 | 43   | 59977    | 0.261  | ppbv   | 97     |
| 26) Hexane                 | 5.68 | 57   | 40189    | 0.319  | ppbv   | 87     |
| 34) 2-Butanone             | 5.25 | 43   | 16392    | 0.108  | ppbv   | 94     |
| 39) 1,2-Dichloropropane    | 7.17 | 63   | 897763   | 8.264  | ppbv # | 31     |
| 53) Toluene                | 9.81 | 91   | 317839   | 0.899  | ppbv   | 95     |

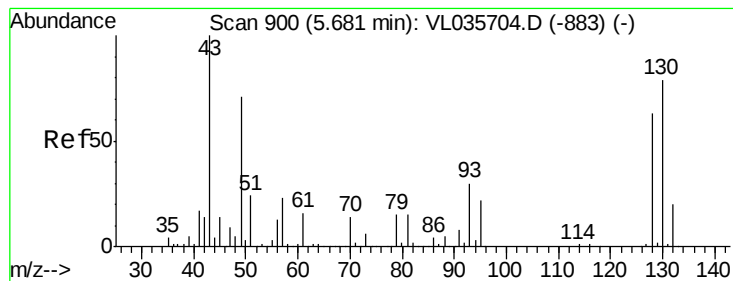
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 23 07:38:05 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampleId :

2DL

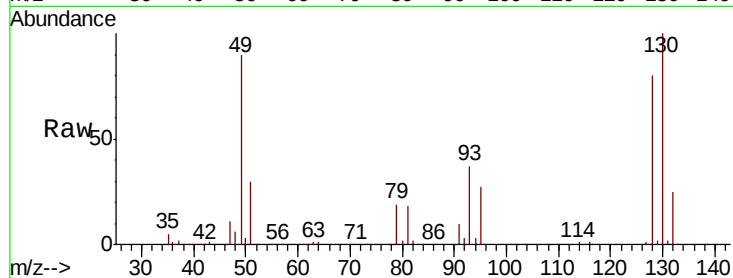
Tot Ion: 49 Resp: 1185619

Ion Ratio Lower Upper

49 100

128 87.0 43.1 129.4

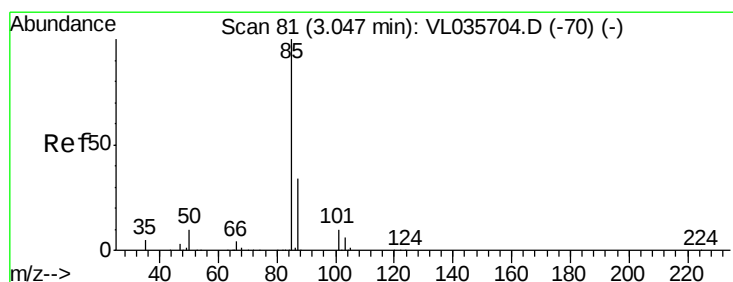
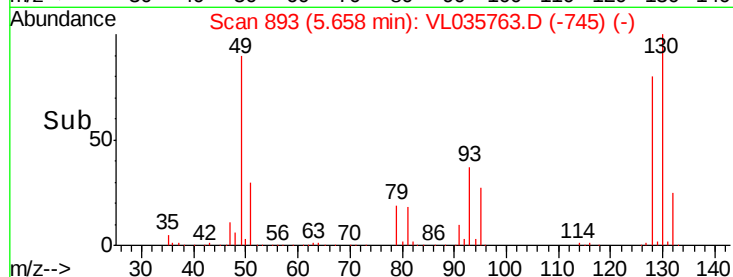
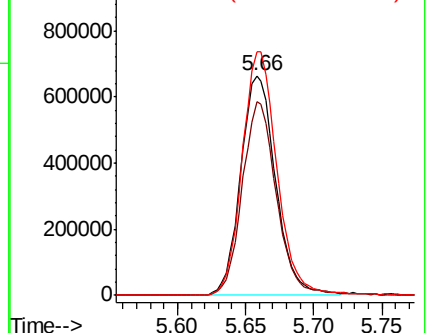
130 111.7 54.9 164.7



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: 0.033 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL035763.D

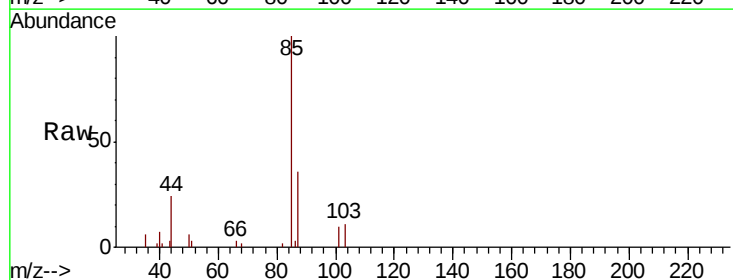
Acq: 12 Oct 2020 15:58

Tgt Ion: 85 Resp: 6494

Ion Ratio Lower Upper

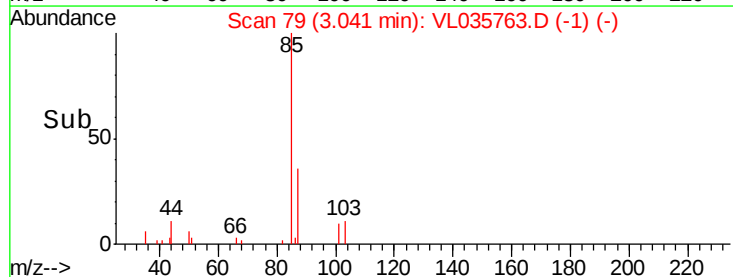
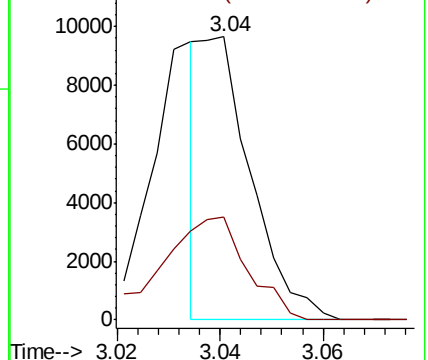
85 100

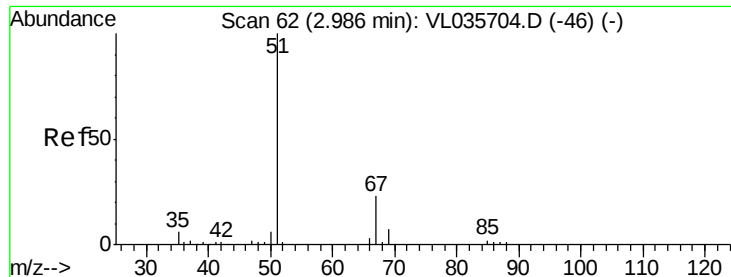
87 36.4 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.240 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.04 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampleId :

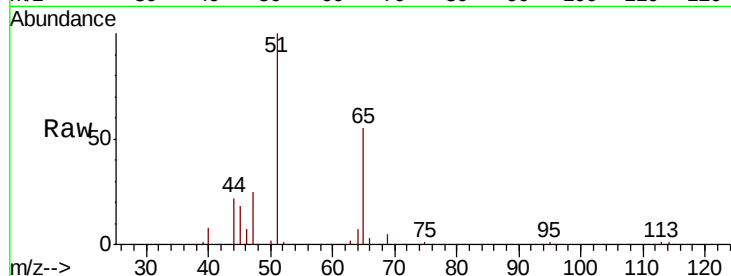
2DL

Tot Ion: 51 Resp: 30627

Ion Ratio Lower Upper

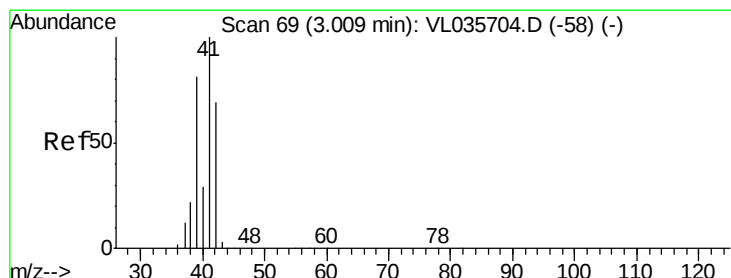
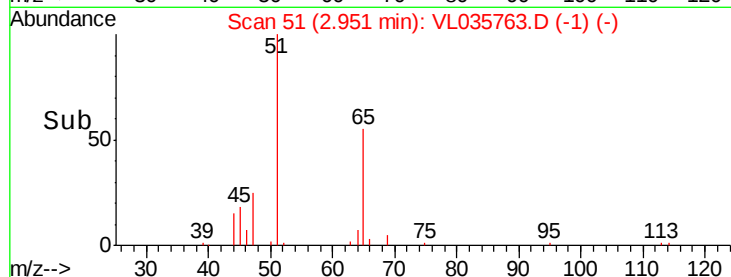
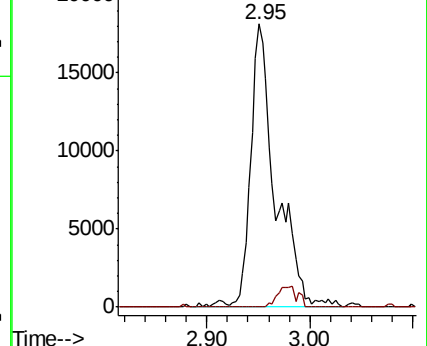
51 100

67 5.9 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.266 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL035763.D

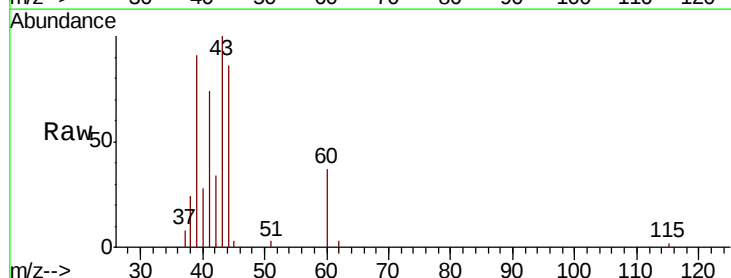
Acq: 12 Oct 2020 15:58

Tgt Ion: 41 Resp: 12338

Ion Ratio Lower Upper

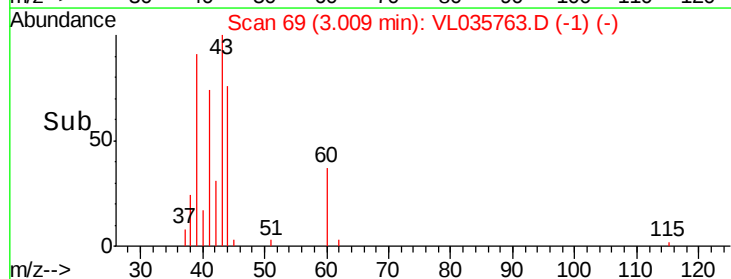
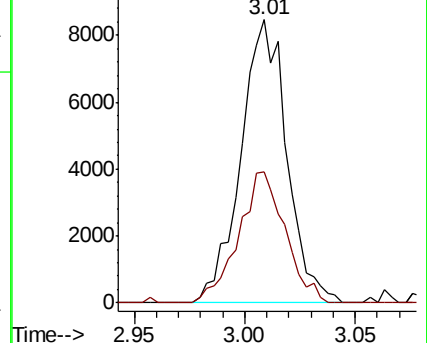
41 100

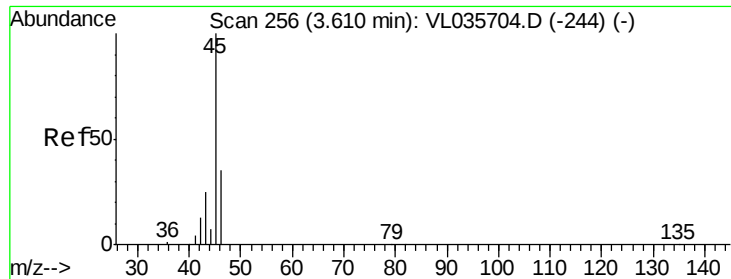
42 46.7 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 16.239 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampleID :

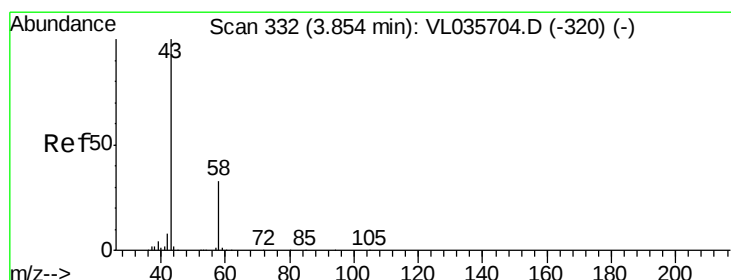
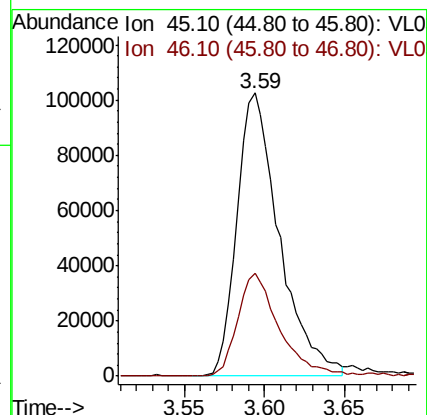
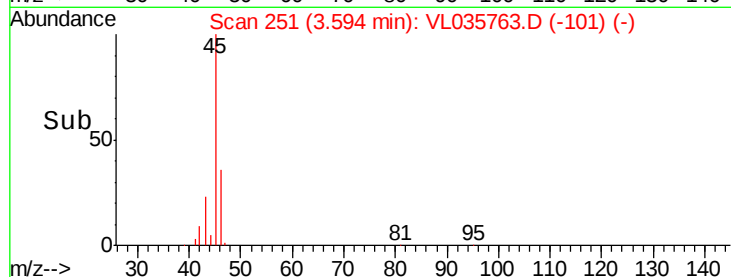
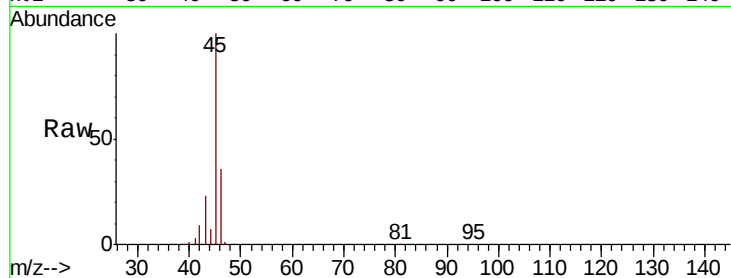
2DL

Tot Ion: 45 Resp: 185466

Ion Ratio Lower Upper

45 100

46 36.5 14.7 58.7



#15

Acetone

Concen: 3.166 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035763.D

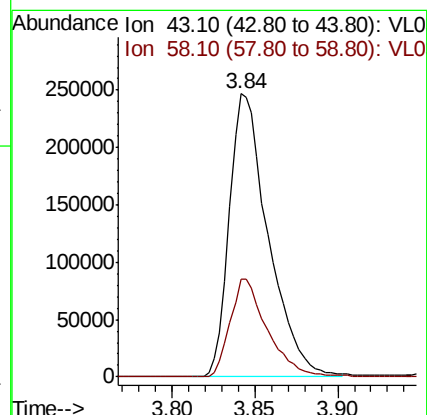
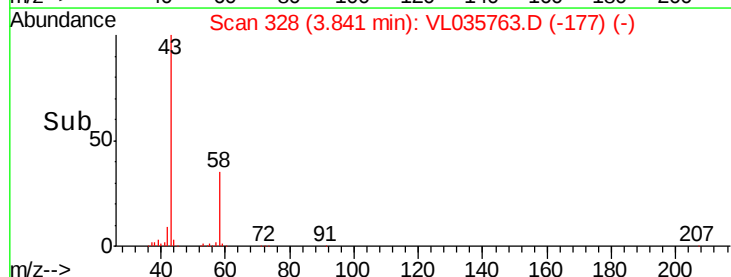
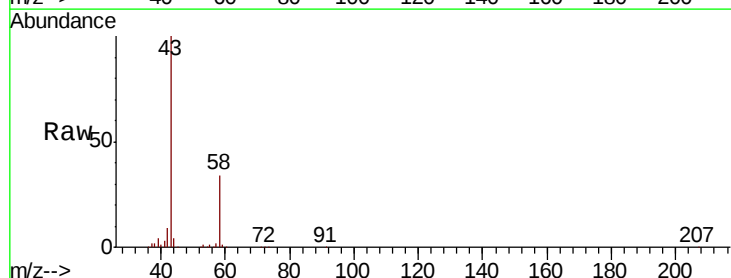
Acq: 12 Oct 2020 15:58

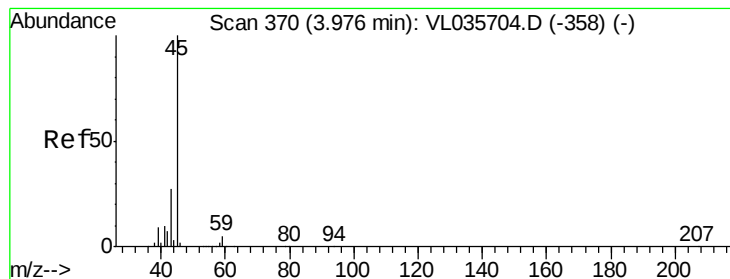
Tgt Ion: 43 Resp: 403864

Ion Ratio Lower Upper

43 100

58 33.3 27.3 40.9





#19

Isopropyl Alcohol

Concen: 1.092 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampleId :

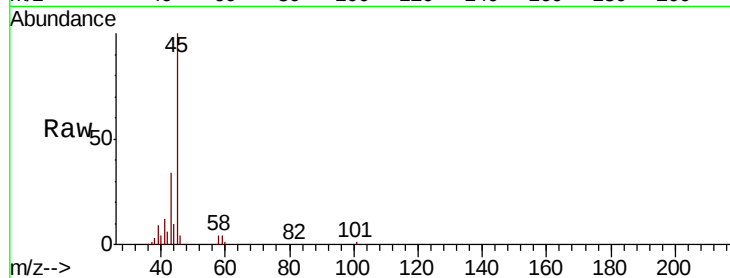
2DL

Tot Ion: 45 Resp: 75760

Ion Ratio Lower Upper

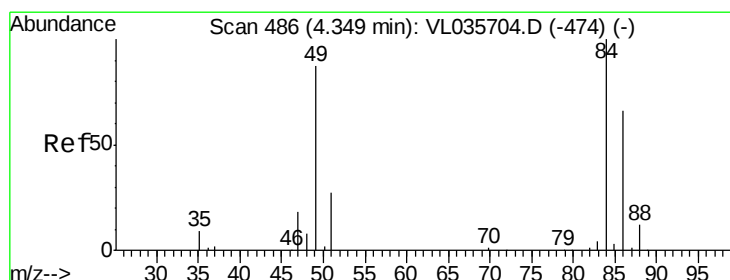
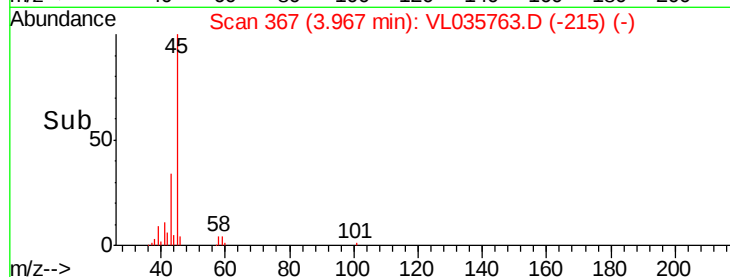
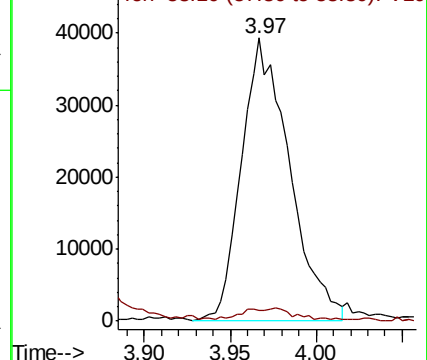
45 100

58 6.2 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.928 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Tgt Ion: 84 Resp: 86939

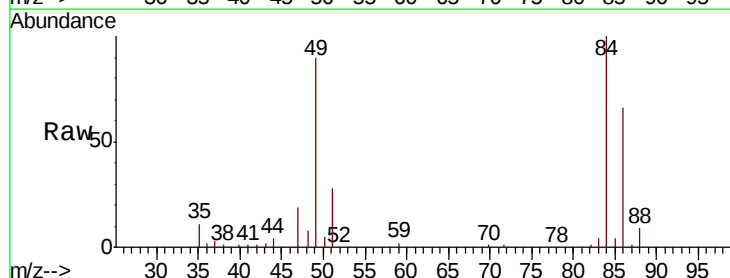
Ion Ratio Lower Upper

84 100

49 90.3 69.8 104.6

51 27.8 21.8 32.8

86 66.4 52.6 78.8

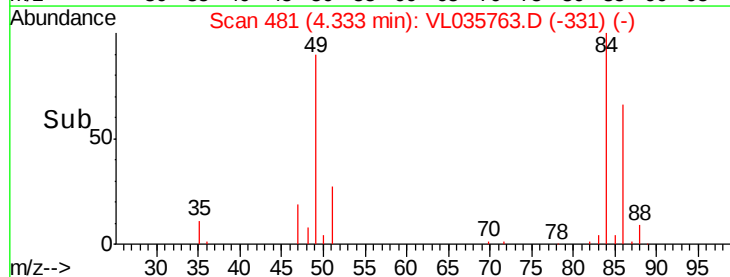
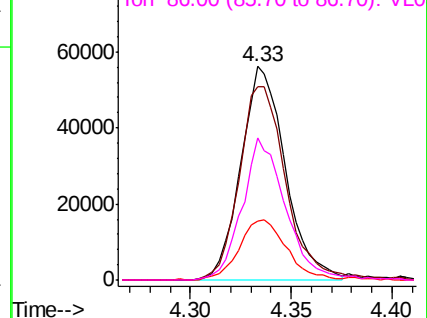


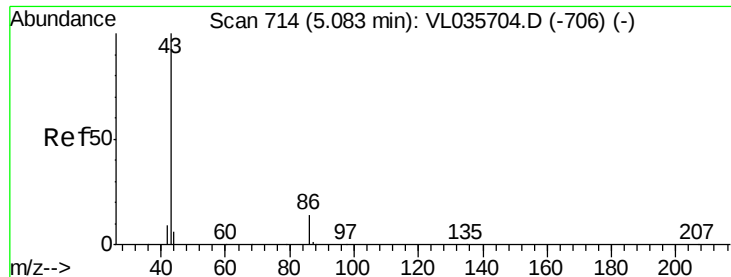
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.054 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.03 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampleId :

2DL

Tot Ion: 43 Resp: 8391

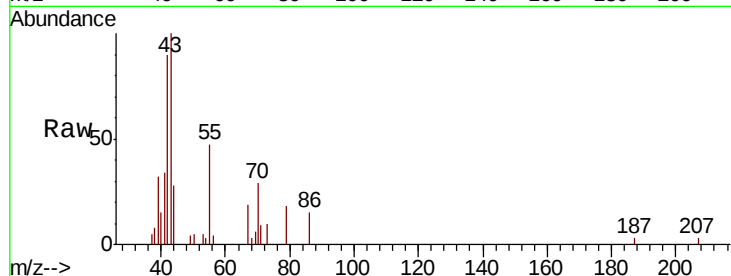
Ion Ratio Lower Upper

43 100

86 15.9 9.7 14.5#

42 82.2 7.9 11.9#

44 0.0 4.8 7.2#

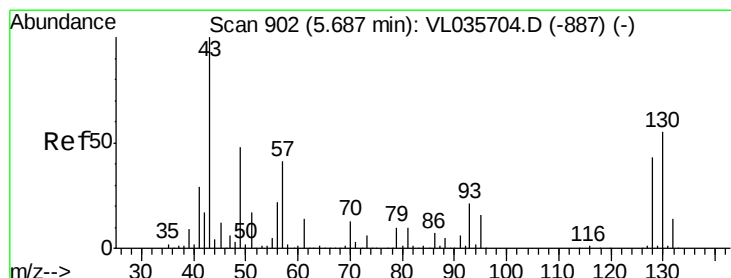
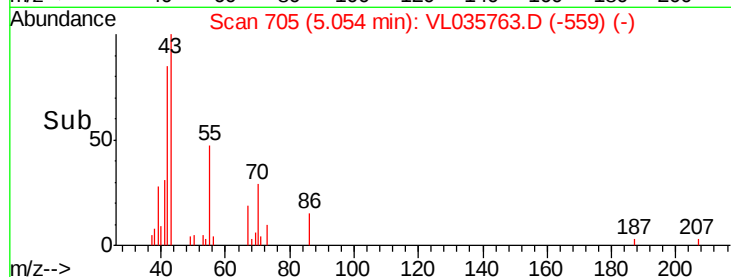
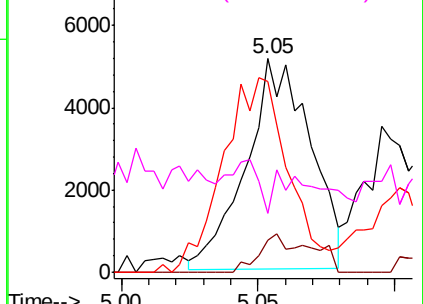


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.261 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Tgt Ion: 43 Resp: 59977

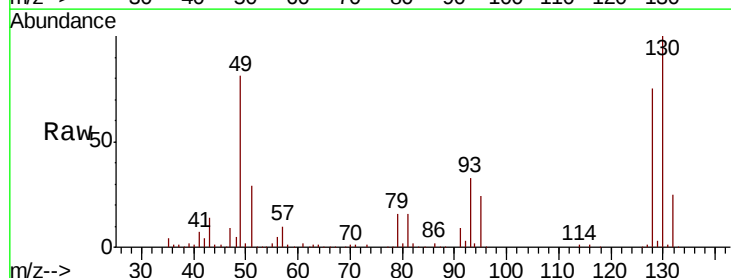
Ion Ratio Lower Upper

43 100

45 10.7 8.6 12.8

61 11.4 10.4 15.6

70 9.2 8.9 13.3

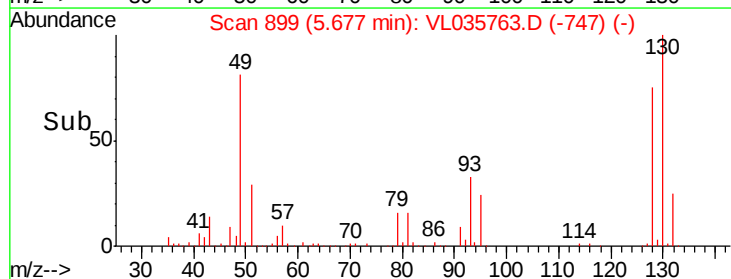
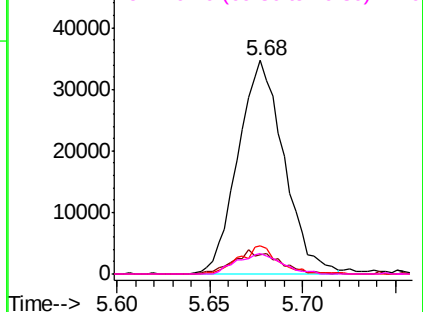


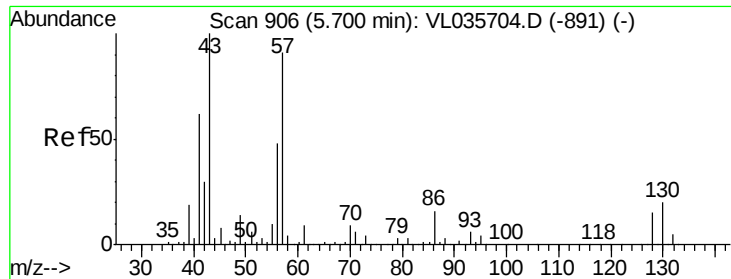
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

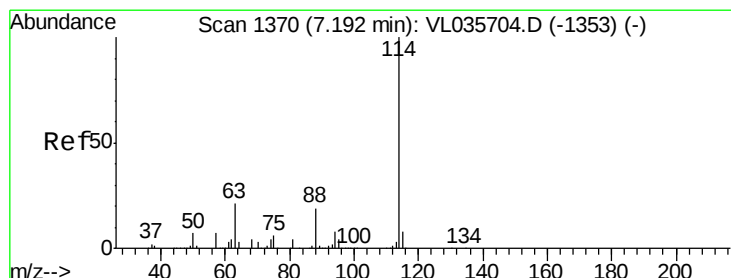
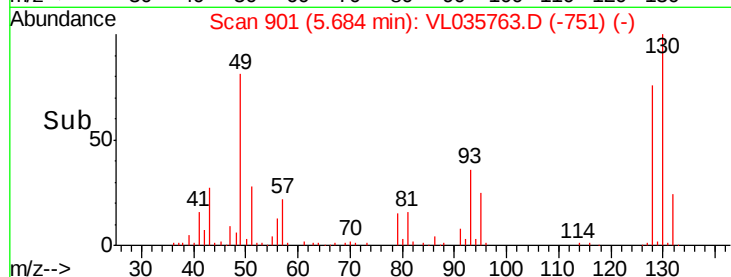
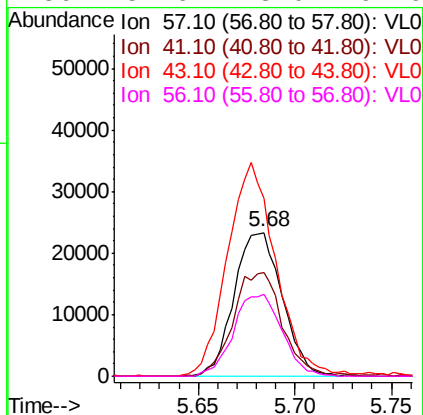
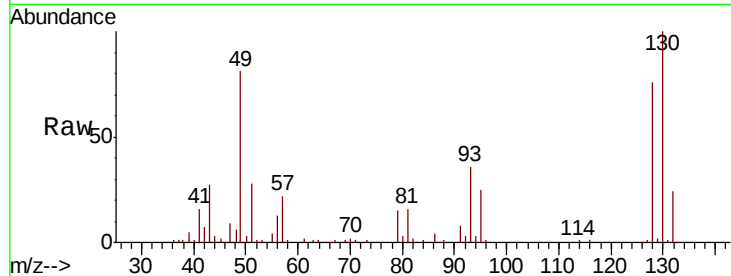




#26  
Hexane  
Concen: 0.319 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.02 min  
Lab File: VL035763.D  
Acq: 12 Oct 2020 15:58

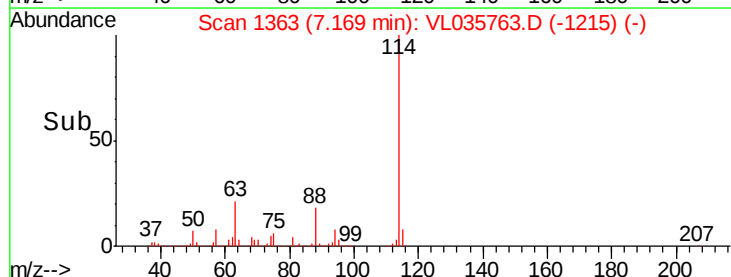
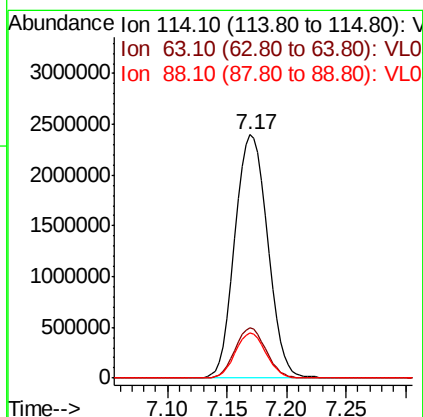
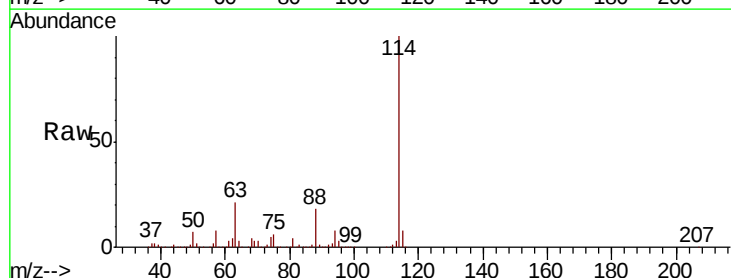
Instrument :  
MSVOA\_L  
ClientSampleId :  
2DL

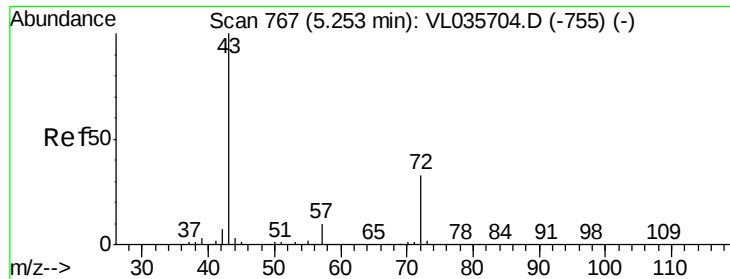
Tot Ion: 57 Resp: 40189  
Ion Ratio Lower Upper  
57 100  
41 74.4 57.9 86.9  
43 152.1 143.8 215.6  
56 57.6 43.0 64.6



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1363  
Delta R.T. -0.02 min  
Lab File: VL035763.D  
Acq: 12 Oct 2020 15:58

Tgt Ion: 114 Resp: 4599516  
Ion Ratio Lower Upper  
114 100  
63 19.6 16.1 24.1  
88 17.4 14.1 21.1





#34

2-Butanone

Concen: 0.108 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampled :

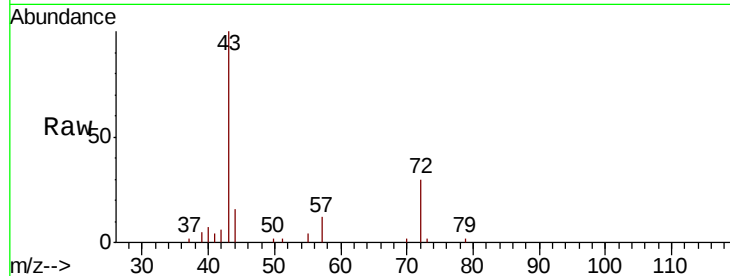
2DL

Tot Ion: 43 Resp: 16392

Ion Ratio Lower Upper

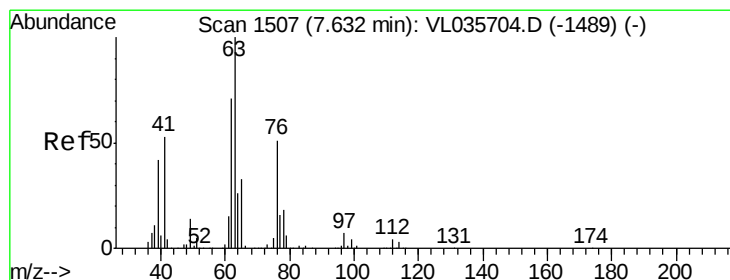
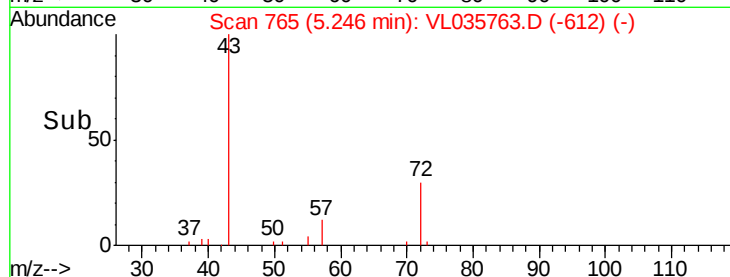
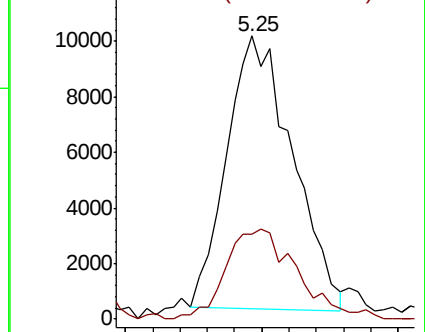
43 100

72 35.8 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 8.264 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.46 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

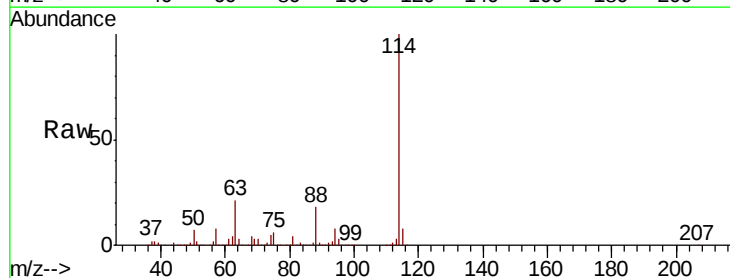
Tgt Ion: 63 Resp: 897763

Ion Ratio Lower Upper

63 100

41 0.0 42.6 63.8#

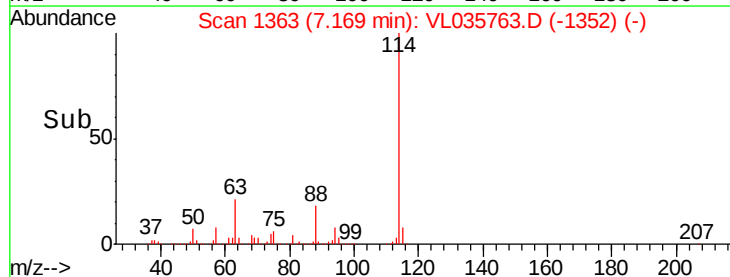
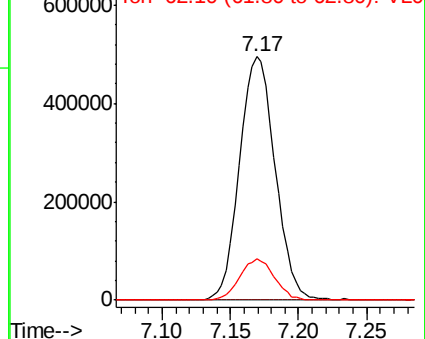
62 16.9 56.5 84.7#

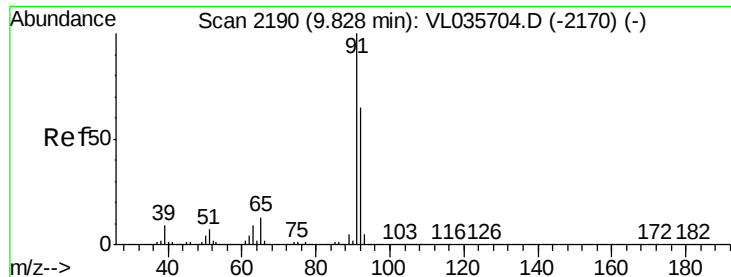


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.899 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.02 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampled :

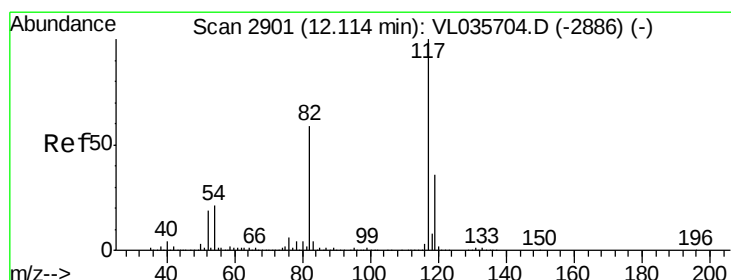
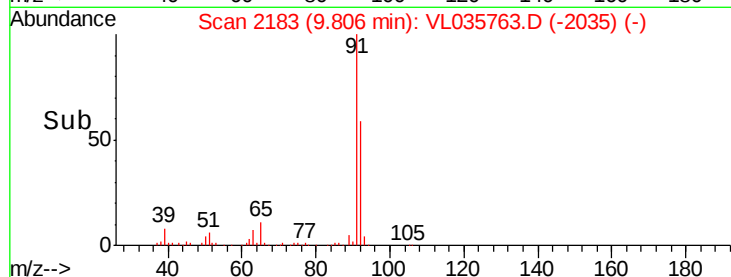
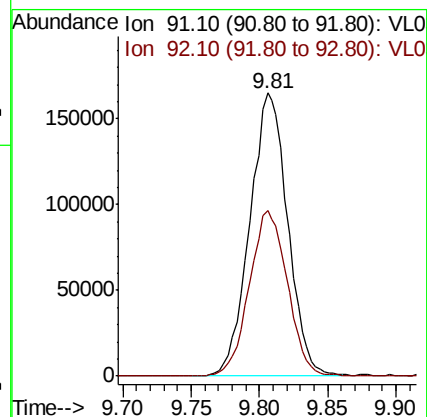
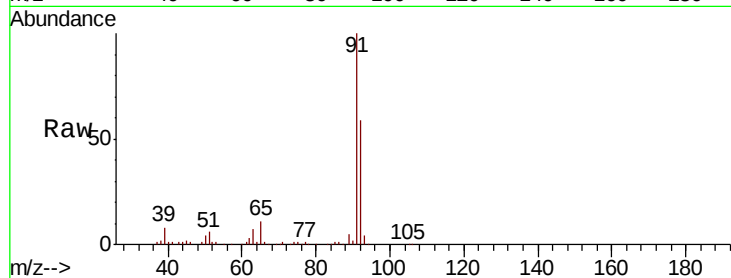
2DL

Tot Ion: 91 Resp: 317839

Ion Ratio Lower Upper

91 100

92 58.9 50.0 75.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.03 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

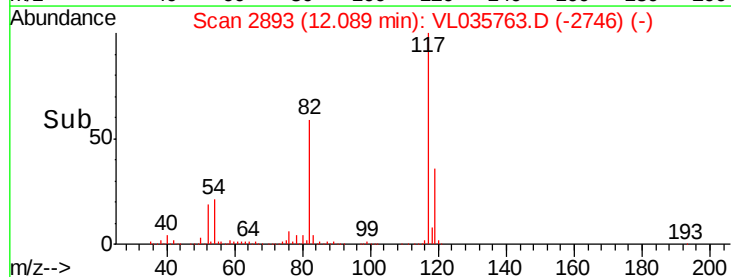
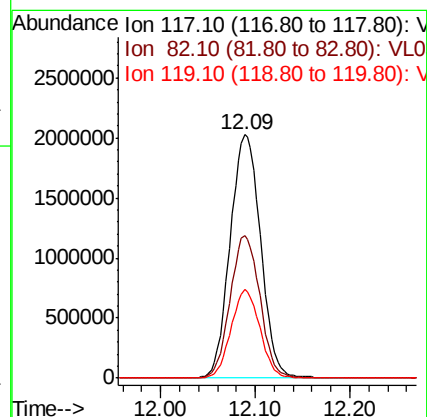
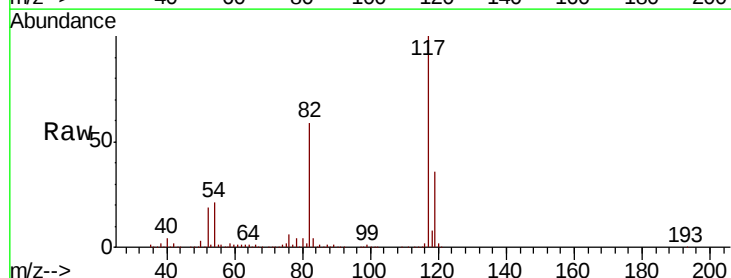
Tgt Ion: 117 Resp: 4544286

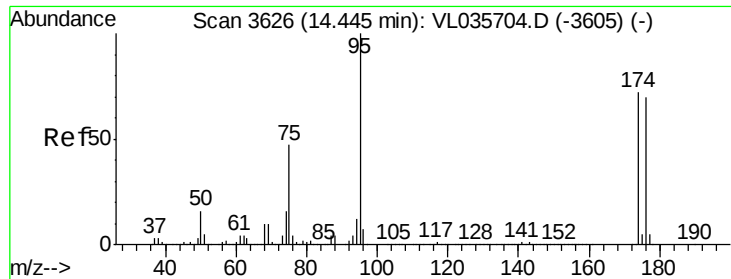
Ion Ratio Lower Upper

117 100

82 57.4 46.1 69.1

119 34.7 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.830 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.02 min

Lab File: VL035763.D

Acq: 12 Oct 2020 15:58

Instrument :

MSVOA\_L

ClientSampleId :

2DL

Tot Ion: 95 Resp: 3347457

Ion Ratio Lower Upper

95 100

174 76.9 59.6 89.4

175 5.5 4.2 6.4

