

Data File : VL033594.D

Acq On : 16 Apr 2019 16:14

Operator : SY/AP

Sample : K2241-14 0.1 PPB

Misc : 400ml/MSVOA\_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Quant Time: Apr 17 05:53:35 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 26 16:00:50 2019

QLast Update : Tue Mar 26 16:00:50 2019

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 860188   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2031863  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2005200  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1612616  | 10.26    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.60% |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08  | 85  | 15621  | 0.125 | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.01  | 51  | 11090  | 0.112 | ppbv   | 100    |
| 4) Chloromethane               | 3.17  | 50  | 2246   | 0.043 | ppbv   | 97     |
| 5) Vinyl Chloride              | 3.30  | 62  | 4557   | 0.089 | ppbv   | 97     |
| 6) Bromomethane                | 3.51  | 94  | 1224   | 0.037 | ppbv   | 91     |
| 7) Chloroethane                | 3.60  | 64  | 1181   | 0.062 | ppbv # | 74     |
| 8) Dichlorotetrafluoroethane   | 3.22  | 85  | 12508  | 0.094 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 4.00  | 101 | 15440  | 0.100 | ppbv   | 93     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55  | 101 | 10225  | 0.098 | ppbv   | 93     |
| 14) Bromoethene                | 3.79  | 108 | 1462   | 0.035 | ppbv # | 1      |
| 15) Acetone                    | 3.93  | 43  | 17577  | 0.170 | ppbv # | 88     |
| 16) 1,3-Butadiene              | 3.37  | 39  | 3881   | 0.095 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.39  | 59  | 1117   | 0.059 | ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.35  | 96  | 2416   | 0.054 | ppbv   | 81     |
| 19) Isopropyl Alcohol          | 4.05  | 45  | 7027   | 0.107 | ppbv # | 93     |
| 20) Methylene Chloride         | 4.41  | 84  | 7790   | 0.177 | ppbv # | 90     |
| 21) Allyl Chloride             | 4.48  | 41  | 5428   | 0.083 | ppbv # | 86     |
| 22) trans-1,2-Dichloroethene   | 4.97  | 96  | 4286   | 0.092 | ppbv   | 82     |
| 23) Vinyl Acetate              | 5.16  | 43  | 8372   | 0.057 | ppbv # | 80     |
| 24) 1,1-Dichloroethane         | 5.09  | 63  | 9932   | 0.089 | ppbv # | 93     |
| 26) Hexane                     | 5.78  | 57  | 3860   | 0.045 | ppbv # | 1      |
| 27) Carbon Disulfide           | 4.62  | 76  | 7082   | 0.070 | ppbv # | 43     |
| 28) Methyl tert-Butyl Ether    | 5.13  | 73  | 7529   | 0.061 | ppbv   | 95     |
| 29) Chloroform                 | 5.84  | 83  | 8200   | 0.056 | ppbv   | 90     |
| 31) cis-1,2-Dichloroethene     | 5.64  | 61  | 3581   | 0.042 | ppbv # | 82     |
| 32) 1,1,1-Trichloroethane      | 6.62  | 97  | 11865  | 0.085 | ppbv   | 90     |
| 35) Carbon Tetrachloride       | 7.13  | 117 | 6295   | 0.044 | ppbv   | 96     |
| 36) Benzene                    | 7.00  | 78  | 9743   | 0.057 | ppbv # | 88     |
| 37) 1,2-Dichloroethane         | 6.41  | 62  | 7235   | 0.063 | ppbv   | 98     |
| 38) Trichloroethene            | 7.95  | 130 | 3752   | 0.058 | ppbv # | 80     |
| 39) 1,2-Dichloropropane        | 7.29  | 63  | 532883 | 7.979 | ppbv # | 24     |
| 42) Bromodichloromethane       | 7.91  | 83  | 8916   | 0.057 | ppbv # | 92     |
| 44) 2,2,4-Trimethylpentane     | 7.99  | 57  | 10283  | 0.035 | ppbv # | 46     |
| 45) t-1,3-Dichloropropene      | 9.41  | 75  | 3938   | 0.046 | ppbv # | 73     |
| 49) Bromoform                  | 13.19 | 173 | 4041   | 0.033 | ppbv # | 67     |
| 56) 1,1,1,2-Tetrachloroethane  | 12.28 | 131 | 5614   | 0.061 | ppbv # | 50     |
| 57) Chlorobenzene              | 12.30 | 112 | 13734  | 0.088 | ppbv # | 72     |
| 63) 1,1,2,2-Tetrachloroethane  | 13.83 | 83  | 11458  | 0.067 | ppbv # | 91     |
| 67) sec-Butylbenzene           | 17.46 | 105 | 17131  | 0.042 | ppbv   | 99     |
| 76) 1,4-Dichlorobenzene        | 17.30 | 146 | 8240   | 0.051 | ppbv # | 41     |
| 77) 1,2-Dichlorobenzene        | 17.99 | 146 | 5463   | 0.035 | ppbv # | 37     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL041619\  
Quantitation Report (Not Reviewed)

Data File : VL033594.D  
Acq On : 16 Apr 2019 16:14  
Operator : SY/AP  
Sample : K2241-14 0.1 PPB  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT2-2019

Quant Time: Apr 17 05:53:35 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 26 16:00:50 2019  
QLast Update : Tue Mar 26 16:00:50 2019  
Response via : Initial Calibration

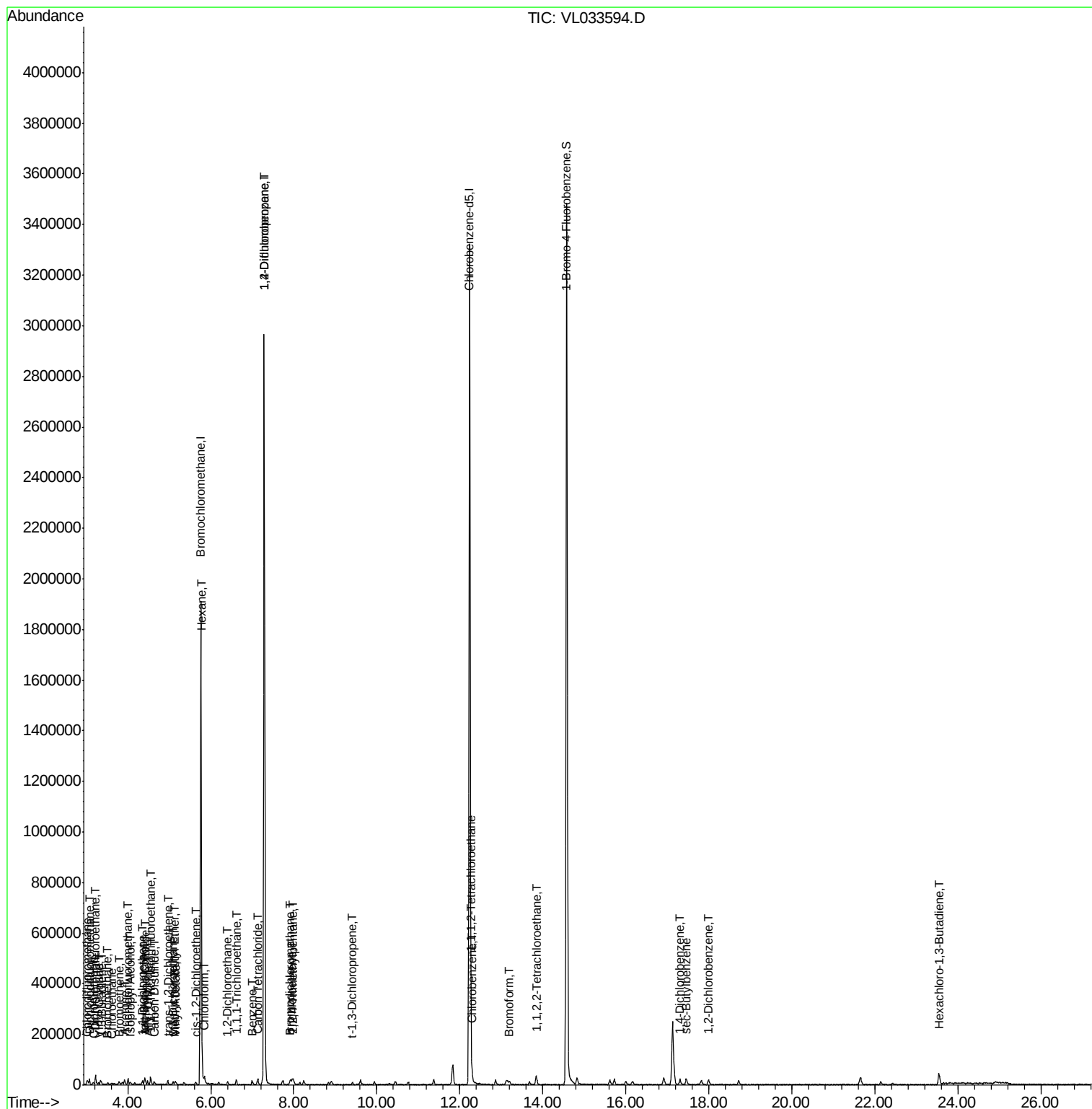
| Internal Standards           | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------------------------------|-------|------|----------|-------|-------|----------|
| 78) Hexachloro-1,3-Butadiene | 23.53 | 225  | 3545     | 0.034 | ppbv  | # 1      |

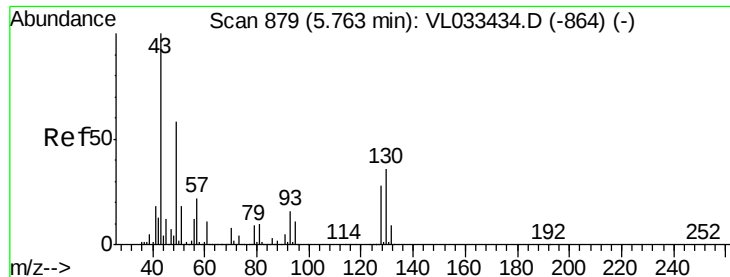
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL033594.D  
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

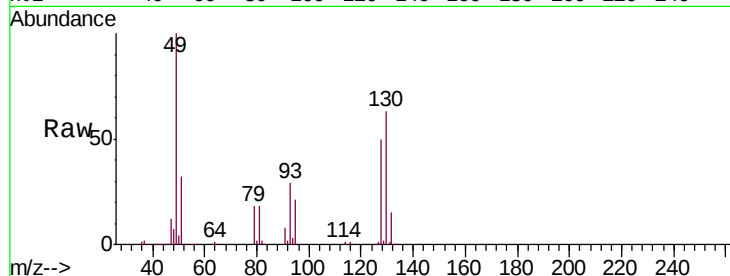
Tgt Ion: 49 Resp: 860188

Ion Ratio Lower Upper

49 100

128 49.1 24.0 72.0

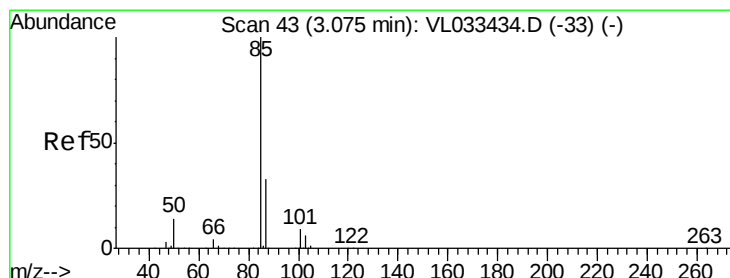
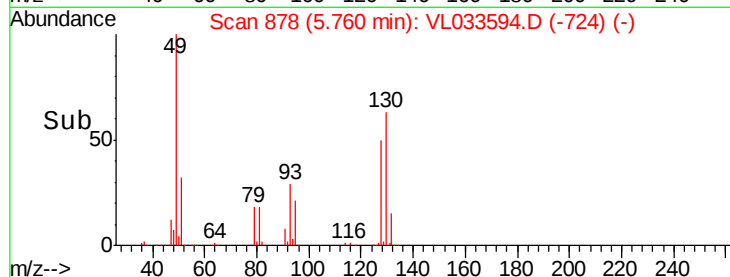
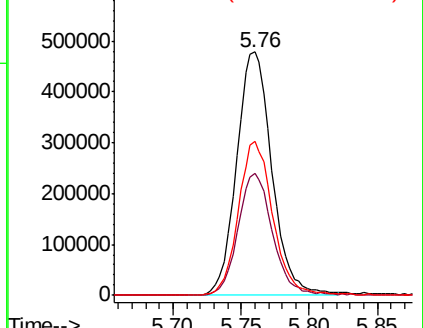
130 61.9 31.2 93.6



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



#2

Dichlorodifluoromethane

Concen: 0.125 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033594.D

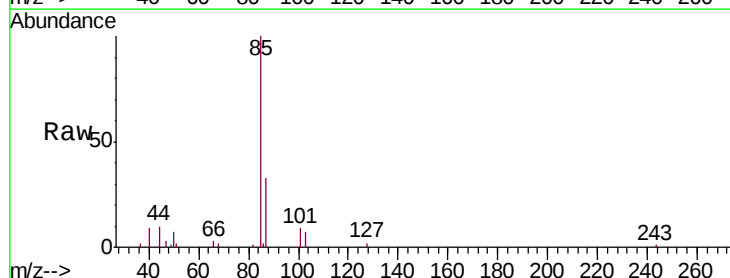
Acq: 16 Apr 2019 16:14

Tgt Ion: 85 Resp: 15621

Ion Ratio Lower Upper

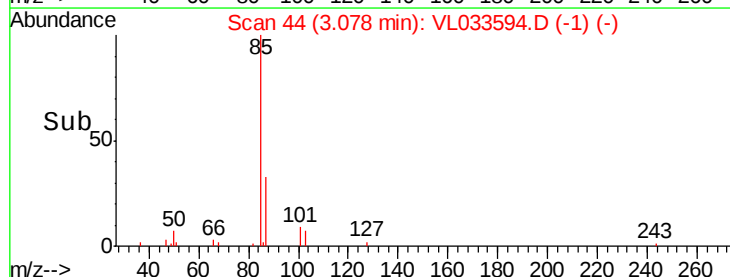
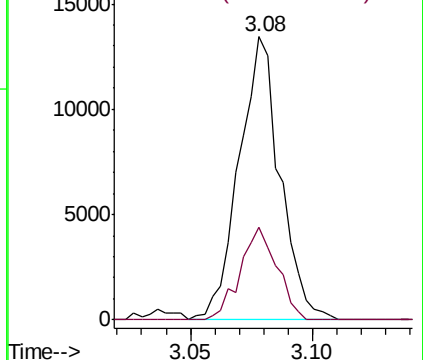
85 100

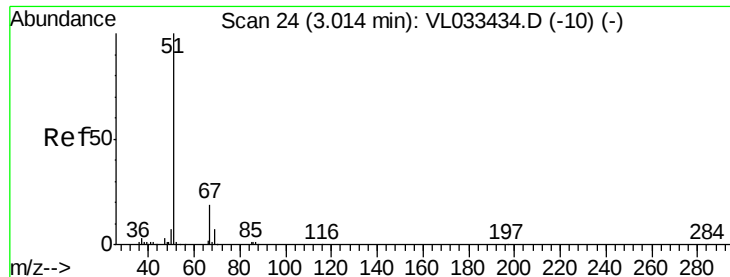
87 32.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.112 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

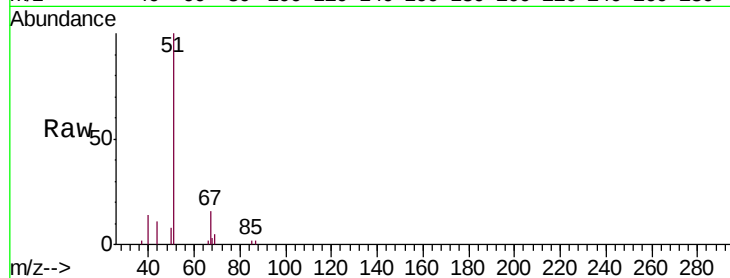
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 51 Resp: 11090

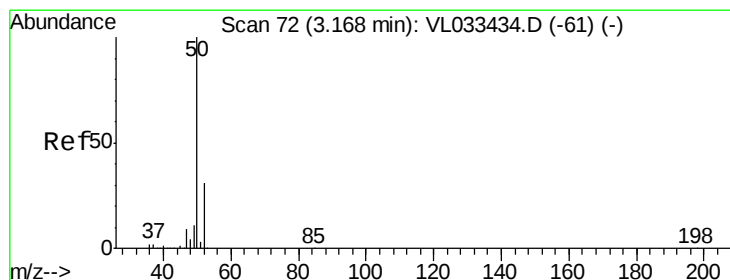
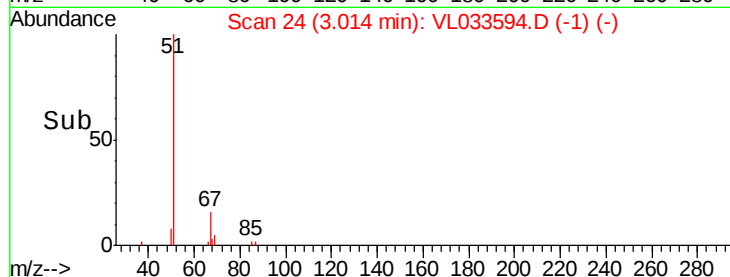
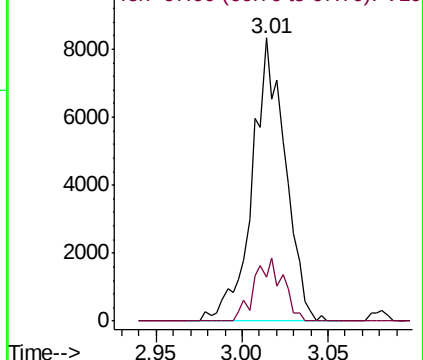
Ion Ratio Lower Upper

51 100

67 19.4 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0  
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033594.D

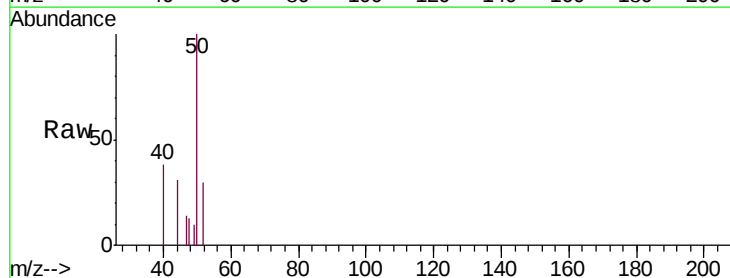
Acq: 16 Apr 2019 16:14

Tgt Ion: 50 Resp: 2246

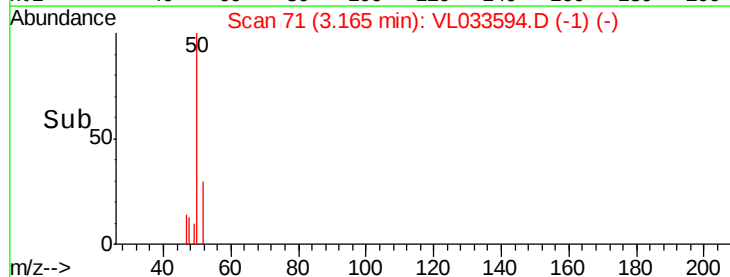
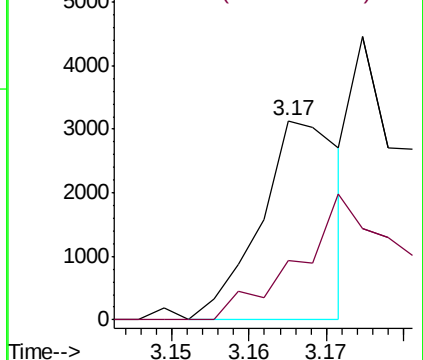
Ion Ratio Lower Upper

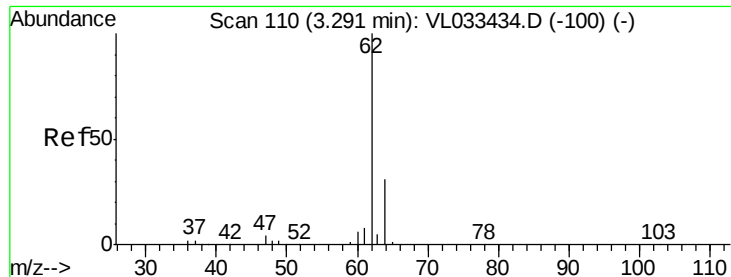
50 100

52 29.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0  
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.089 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

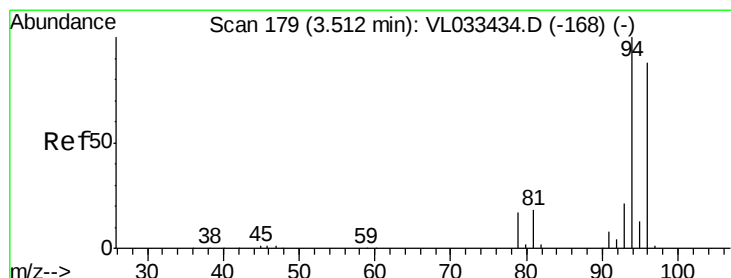
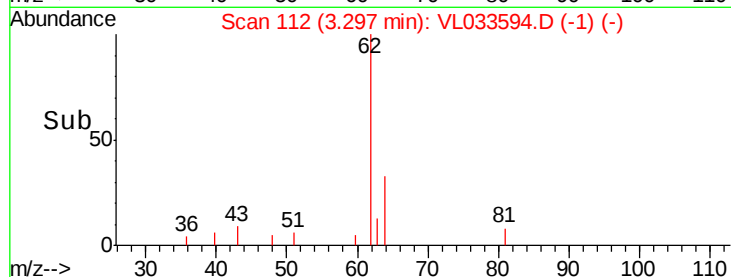
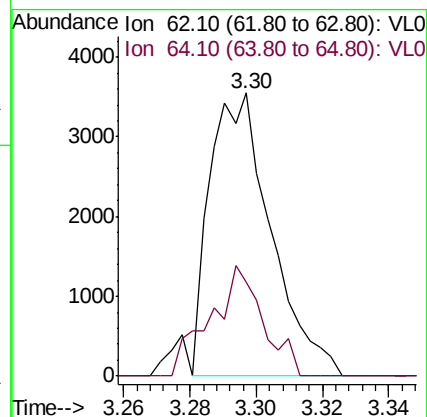
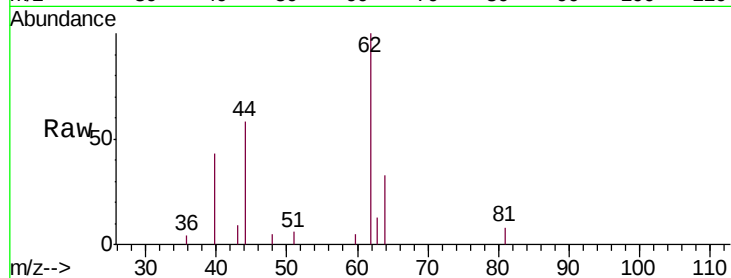
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 62 Resp: 4557

Ion Ratio Lower Upper

62 100

64 29.6 24.9 37.3



#6

Bromomethane

Concen: 0.037 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033594.D

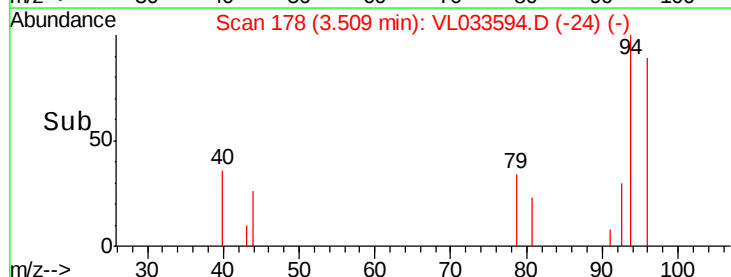
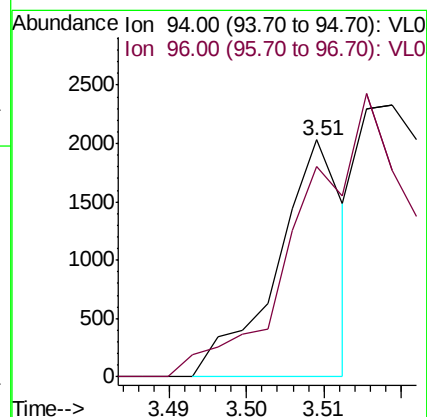
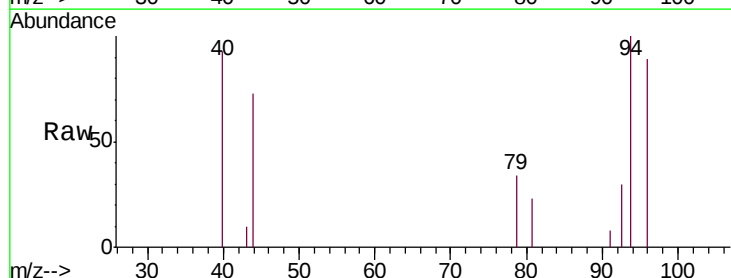
Acq: 16 Apr 2019 16:14

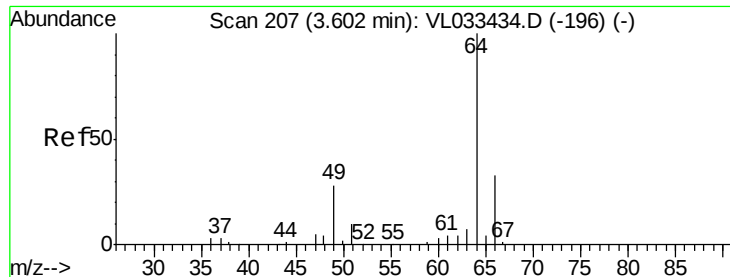
Tgt Ion: 94 Resp: 1224

Ion Ratio Lower Upper

94 100

96 79.3 70.2 105.2





#7

Chloroethane

Concen: 0.062 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

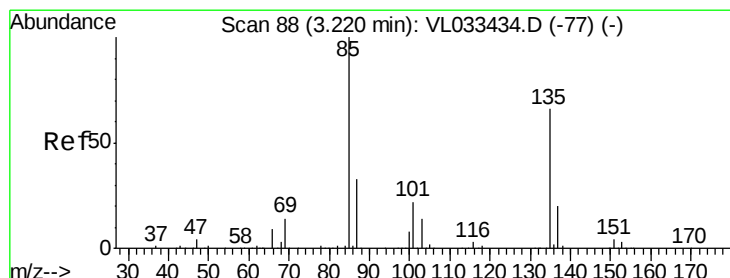
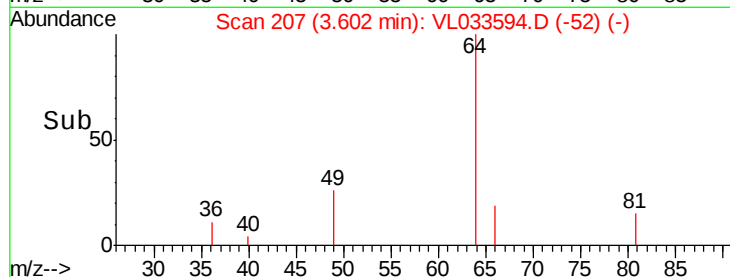
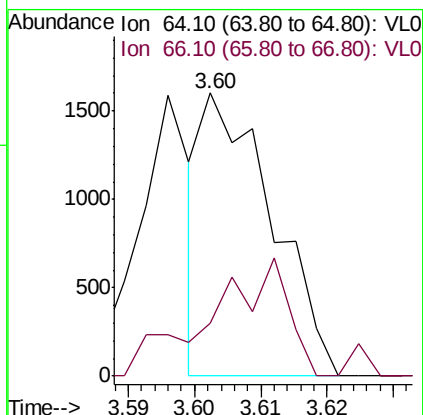
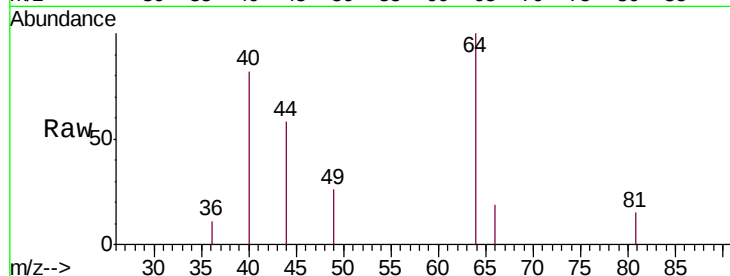
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 64 Resp: 1181

Ion Ratio Lower Upper

64 100

66 18.8 26.7 40.1#



#8

Dichlorotetrafluoroethane

Concen: 0.094 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033594.D

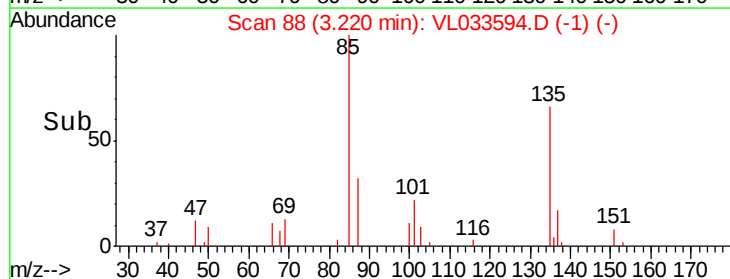
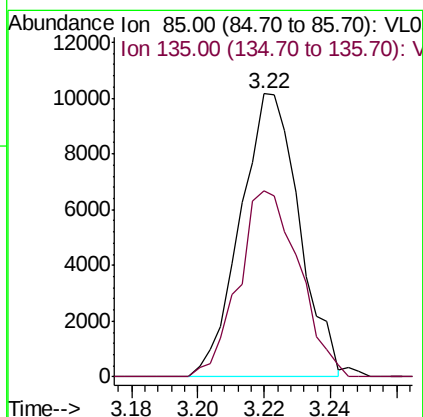
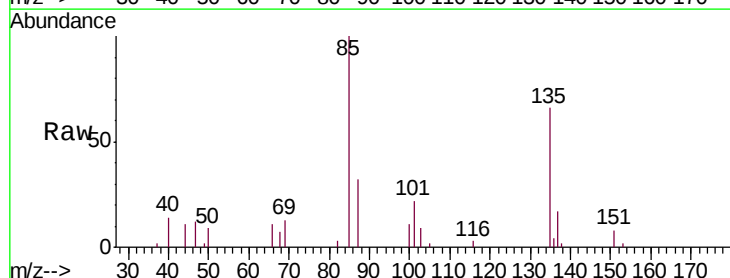
Acq: 16 Apr 2019 16:14

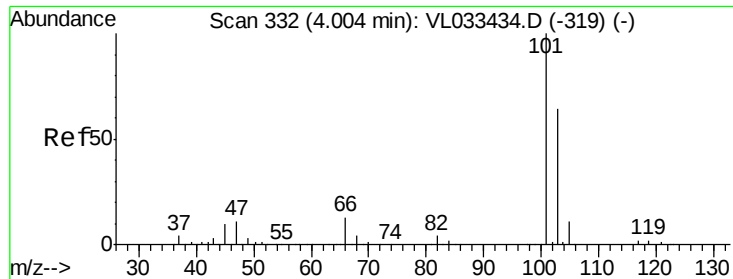
Tgt Ion: 85 Resp: 12508

Ion Ratio Lower Upper

85 100

135 67.4 54.0 81.0





#11

Trichlorofluoromethane

Concen: 0.100 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

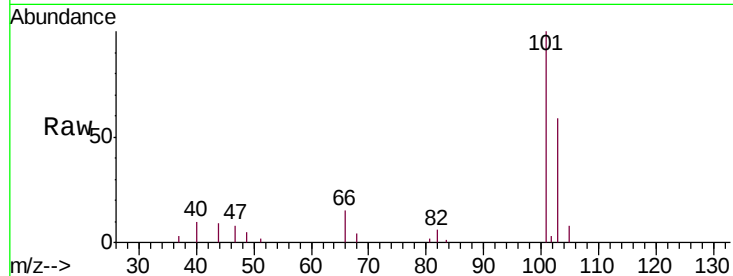
LOD-MDL-AIR-01-QT2-2019

Tgt Ion:101 Resp: 15440

Ion Ratio Lower Upper

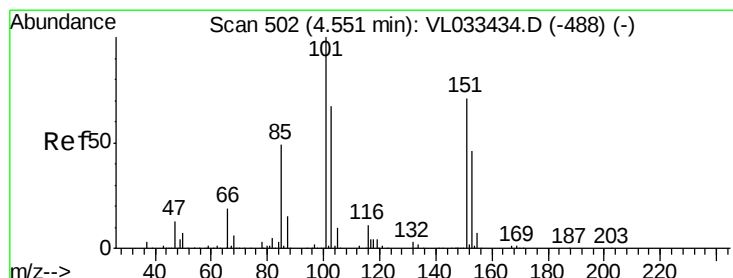
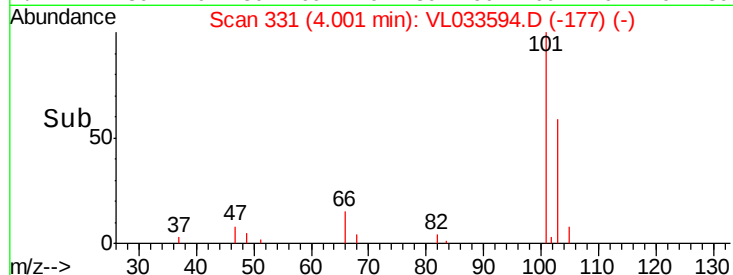
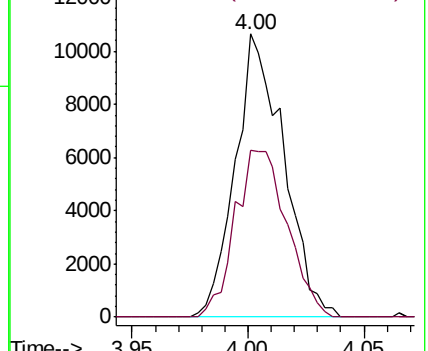
101 100

103 59.0 51.3 76.9



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: 0.098 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033594.D

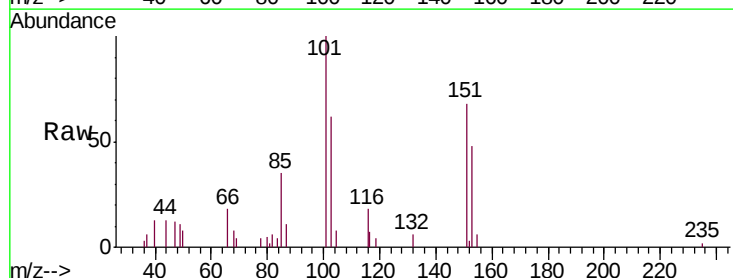
Acq: 16 Apr 2019 16:14

Tgt Ion:101 Resp: 10225

Ion Ratio Lower Upper

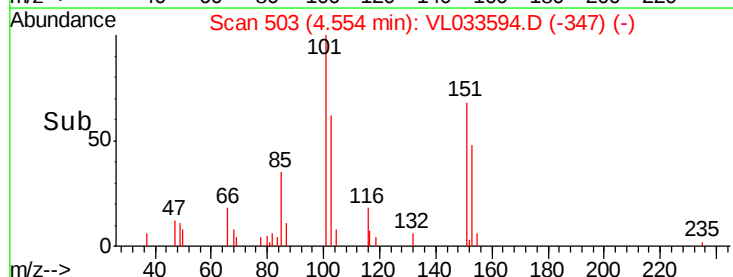
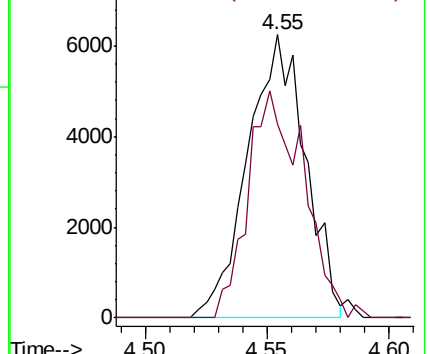
101 100

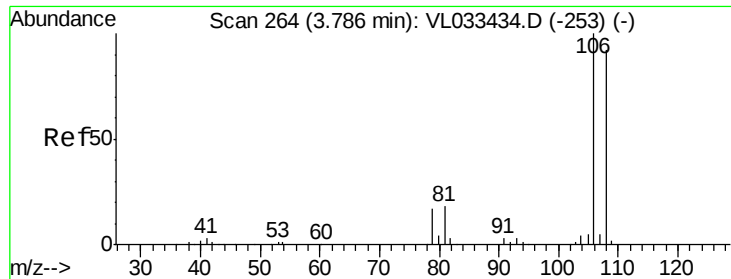
151 77.7 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.035 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

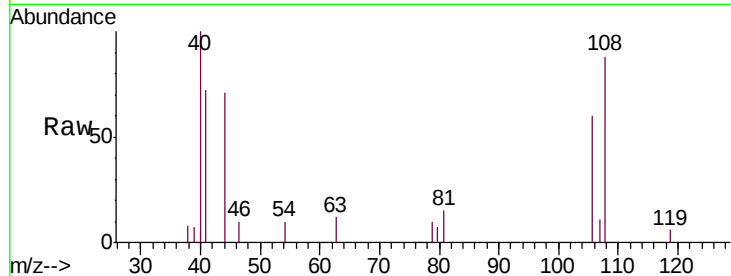
Tgt Ion: 108 Resp: 1462

Ion Ratio Lower Upper

108 100

106 0.0 86.4 129.6#

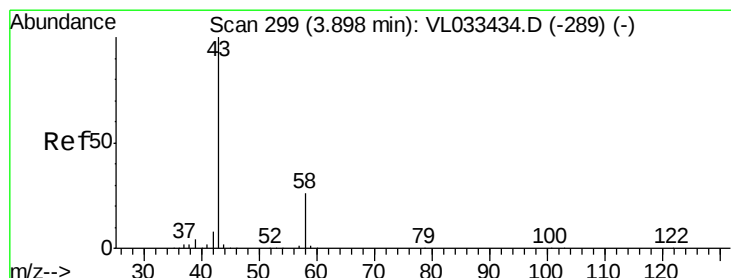
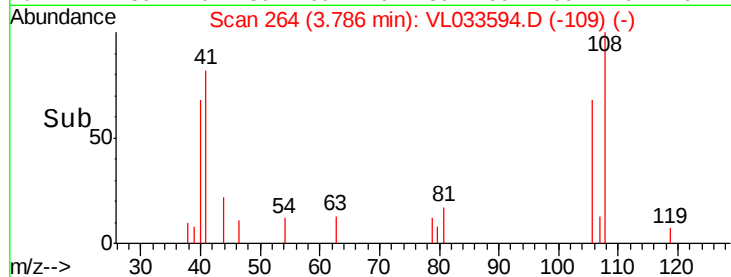
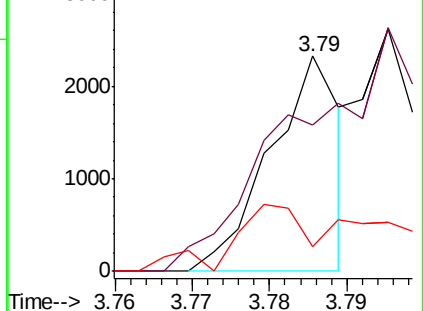
79 66.5 15.8 23.8#



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): VLO



#15

Acetone

Concen: 0.170 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.03 min

Lab File: VL033594.D

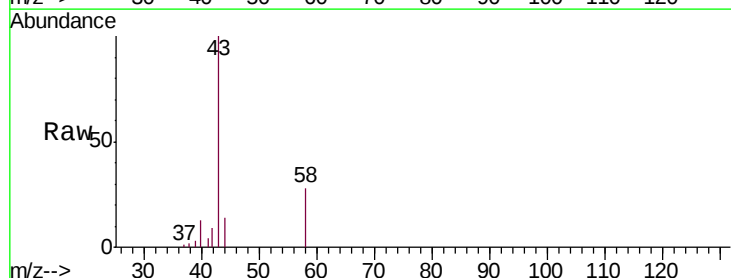
Acq: 16 Apr 2019 16:14

Tgt Ion: 43 Resp: 17577

Ion Ratio Lower Upper

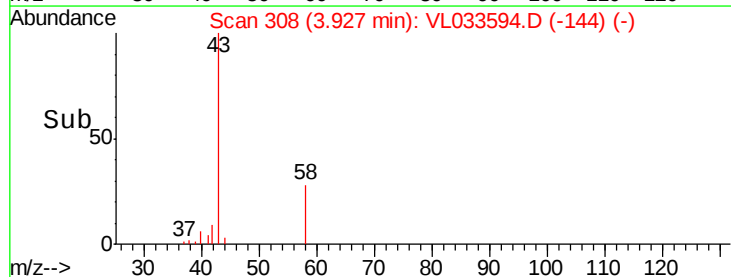
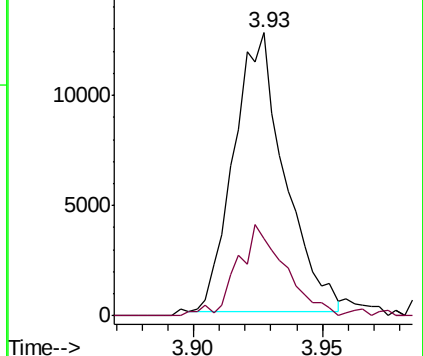
43 100

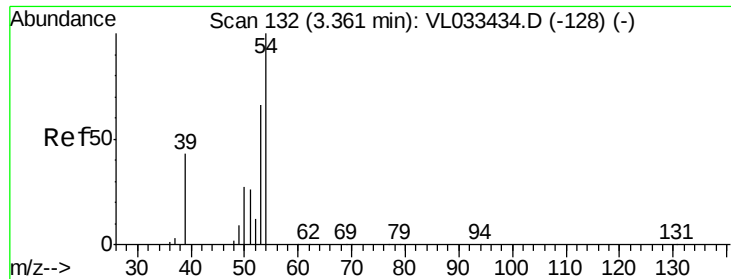
58 31.7 20.5 30.7#



Abundance Ion 43.10 (42.80 to 43.80): VLO

Ion 58.10 (57.80 to 58.80): VLO

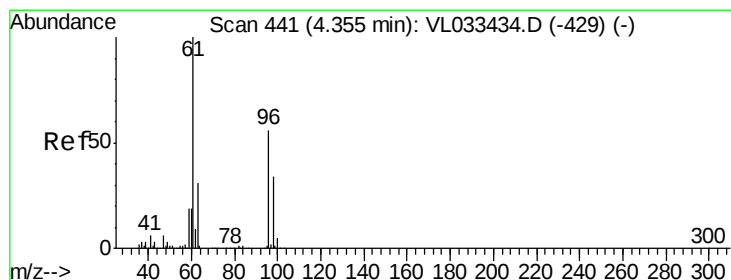
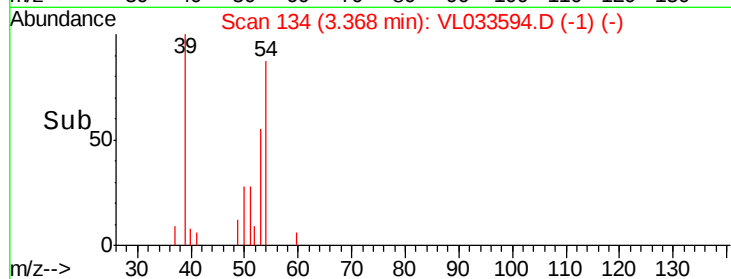
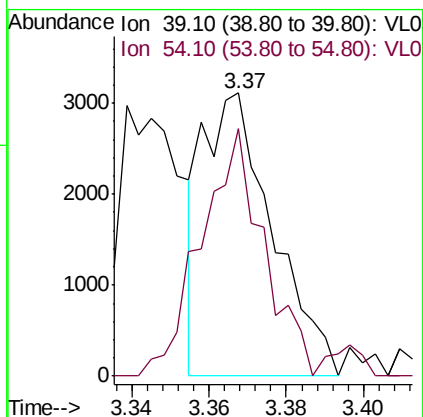
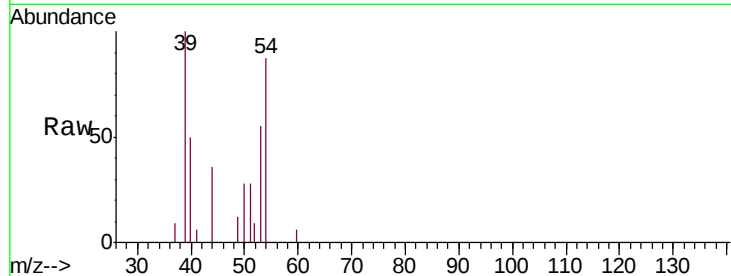




#16  
1,3-Butadiene  
Concen: 0.095 ppbv  
RT: 3.37 min Scan# 134  
Delta R.T. 0.01 min  
Lab File: VL033594.D  
Acq: 16 Apr 2019 16:14

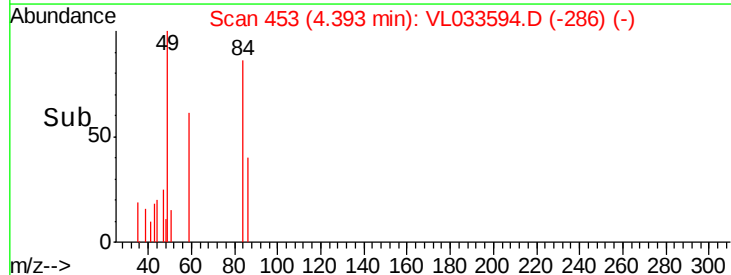
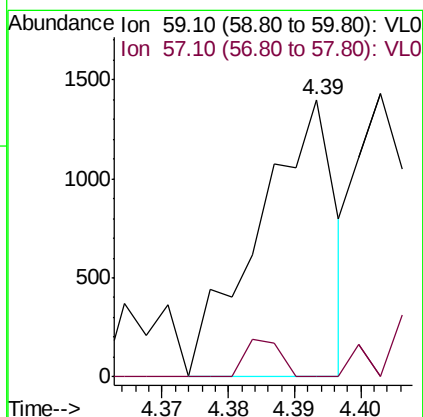
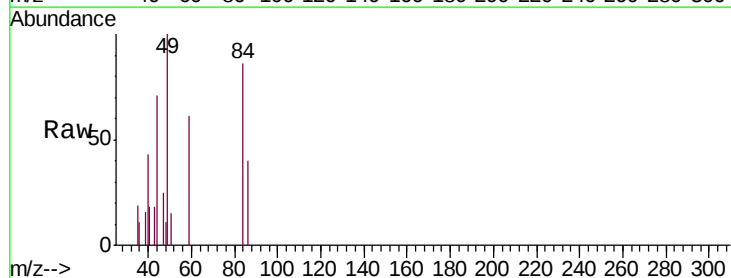
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT2-2019

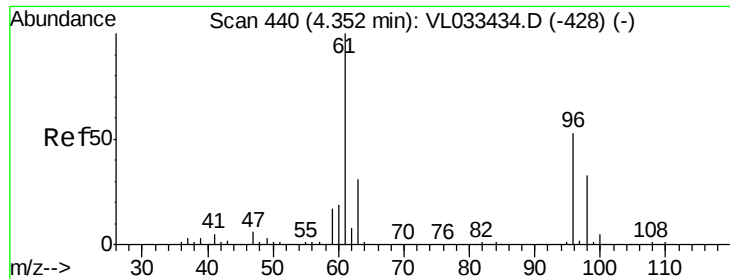
Tgt Ion: 39 Resp: 3881  
Ion Ratio Lower Upper  
39 100  
54 84.8 69.4 104.2



#17  
tert-Butyl alcohol  
Concen: 0.059 ppbv  
RT: 4.39 min Scan# 453  
Delta R.T. 0.04 min  
Lab File: VL033594.D  
Acq: 16 Apr 2019 16:14

Tgt Ion: 59 Resp: 1117  
Ion Ratio Lower Upper  
59 100  
57 9.0 7.8 11.8





#18

1,1-Dichloroethene

Concen: 0.054 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

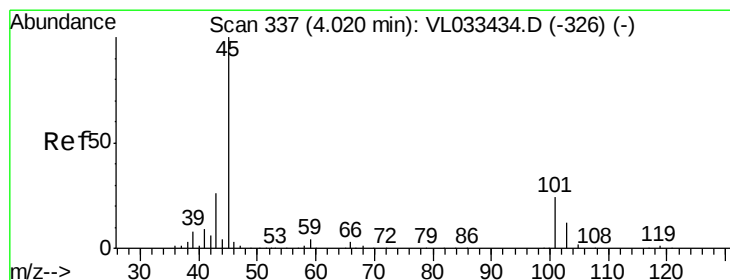
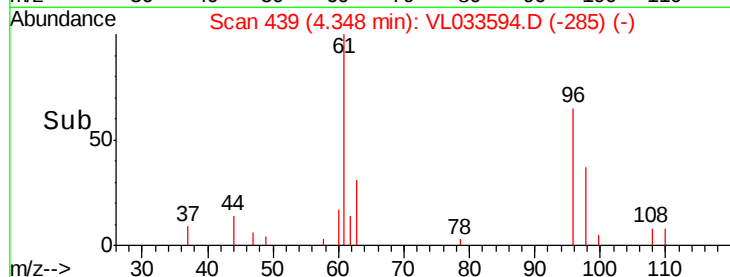
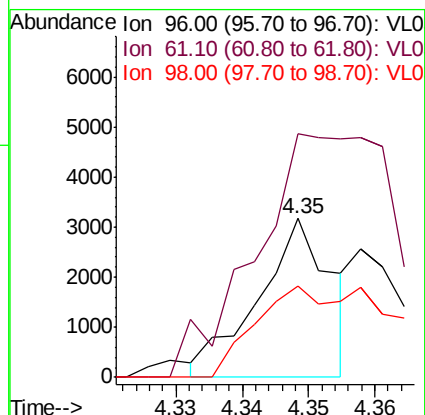
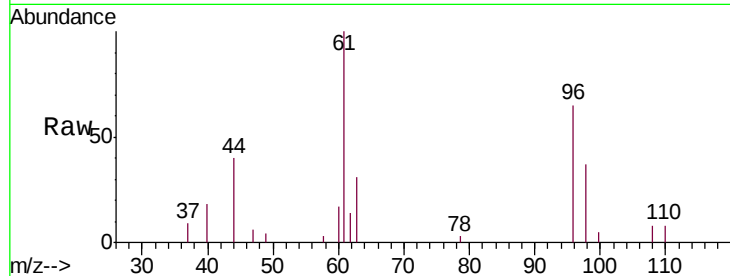
Tgt Ion: 96 Resp: 2416

Ion Ratio Lower Upper

96 100

61 153.0 149.8 224.6

98 63.5 48.7 73.1



#19

Isopropyl Alcohol

Concen: 0.107 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033594.D

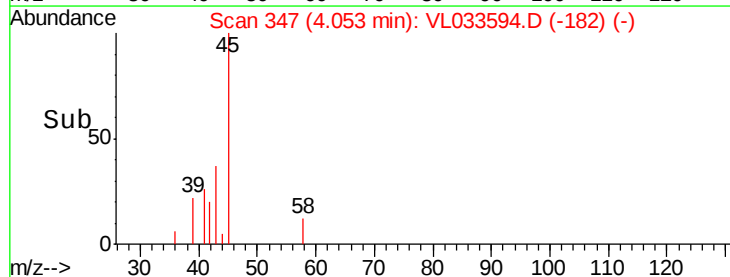
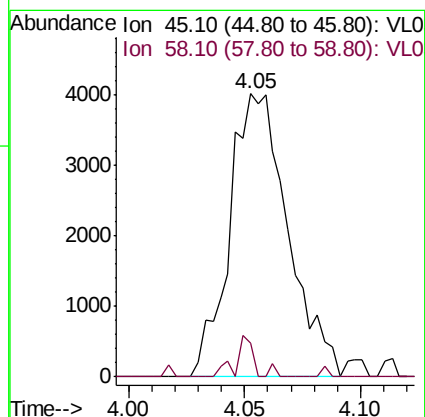
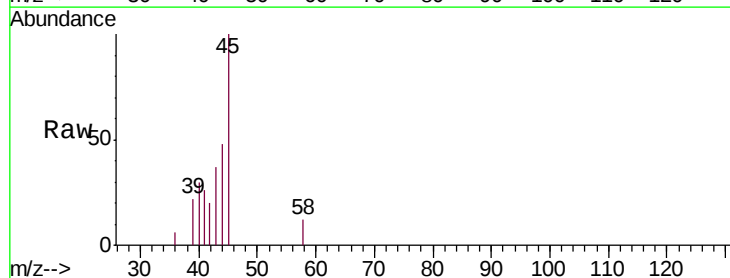
Acq: 16 Apr 2019 16:14

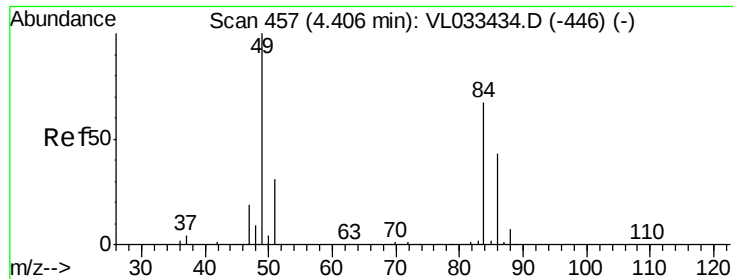
Tgt Ion: 45 Resp: 7027

Ion Ratio Lower Upper

45 100

58 4.5 1.4 2.2#

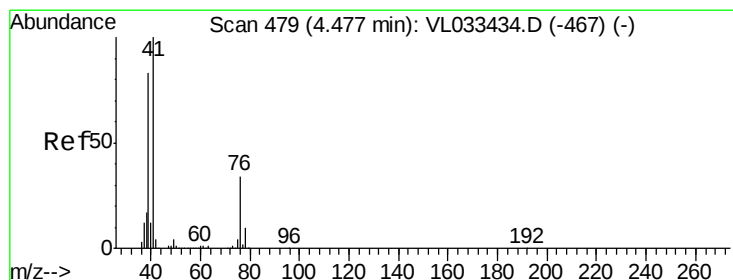
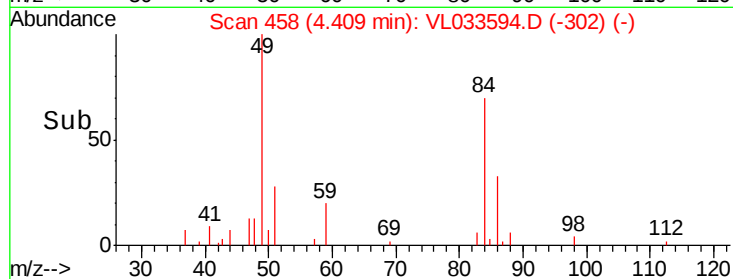
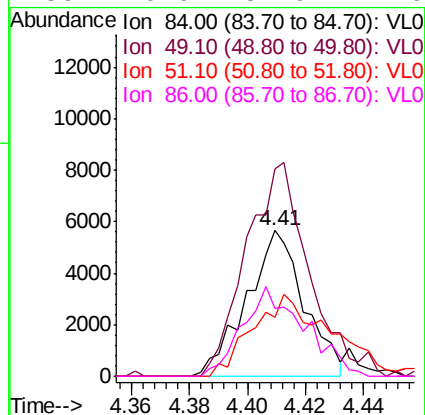
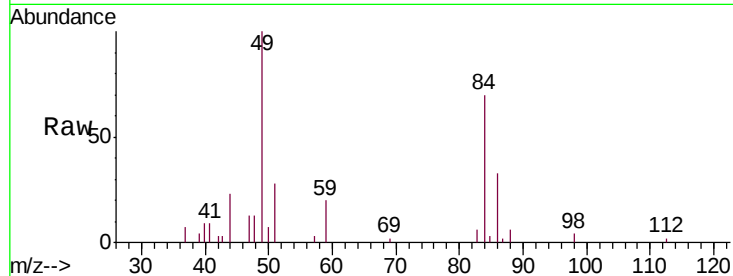




#20  
Methylene Chloride  
Concen: 0.177 ppbv  
RT: 4.41 min Scan# 458  
Delta R.T. 0.00 min  
Lab File: VL033594.D  
Acq: 16 Apr 2019 16:14

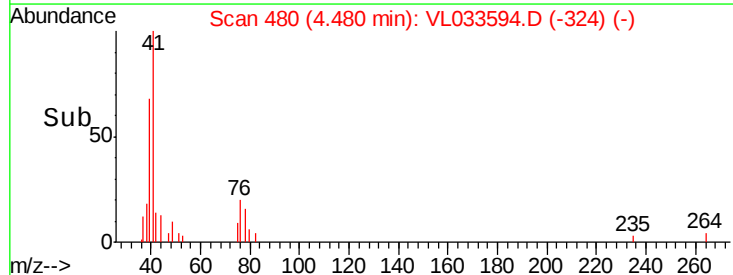
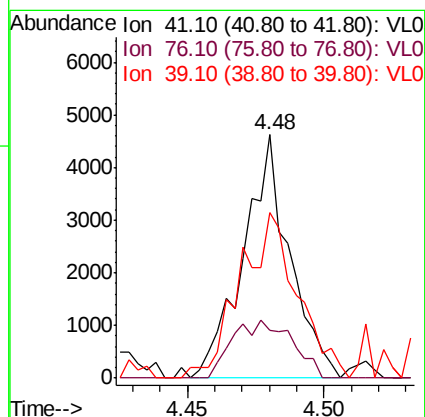
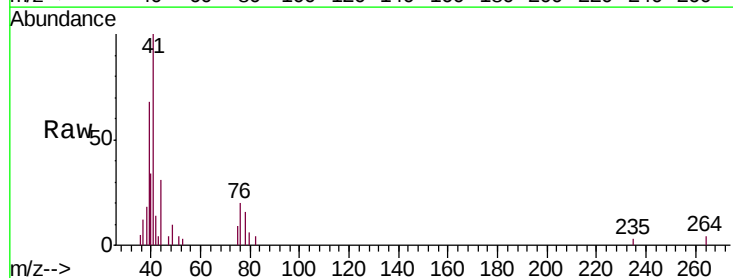
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT2-2019

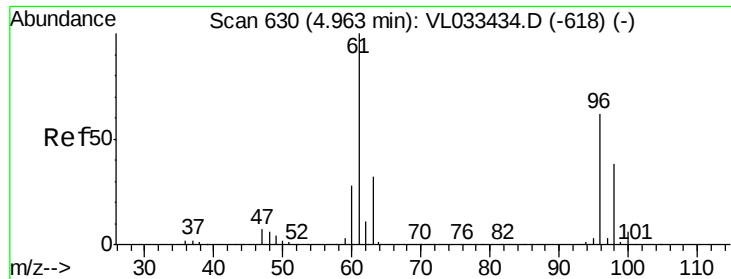
Tgt Ion: 84 Resp: 7790  
Ion Ratio Lower Upper  
84 100  
49 142.4 120.0 180.0  
51 40.0 36.7 55.1  
86 49.9 51.9 77.9#



#21  
Allyl Chloride  
Concen: 0.083 ppbv  
RT: 4.48 min Scan# 480  
Delta R.T. 0.00 min  
Lab File: VL033594.D  
Acq: 16 Apr 2019 16:14

Tgt Ion: 41 Resp: 5428  
Ion Ratio Lower Upper  
41 100  
76 30.8 25.4 38.2  
39 98.1 65.3 97.9#





#22

trans-1,2-Dichloroethene

Concen: 0.092 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

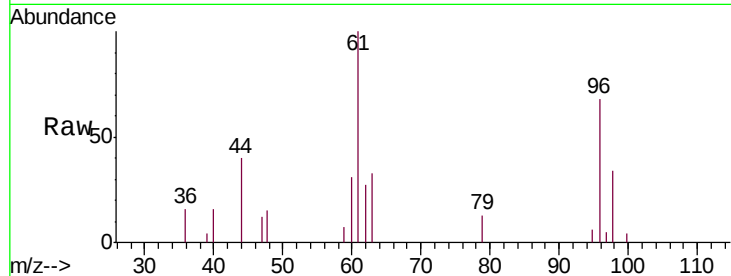
Tgt Ion: 96 Resp: 4286

Ion Ratio Lower Upper

96 100

61 135.5 128.9 193.3

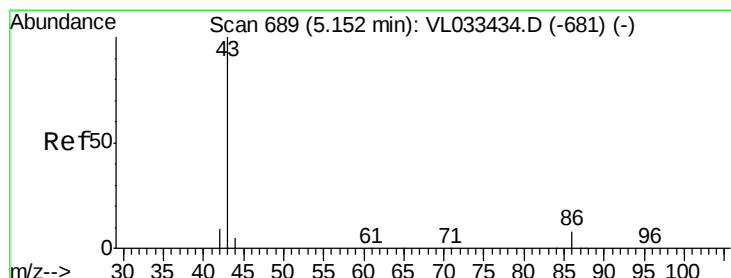
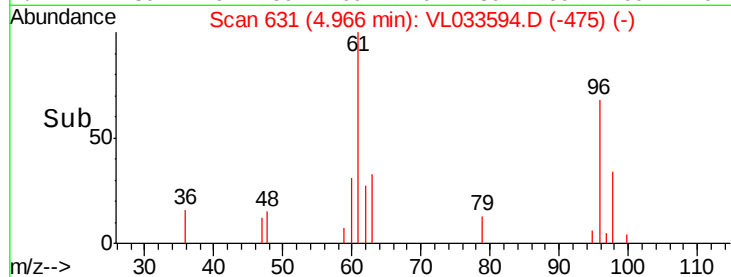
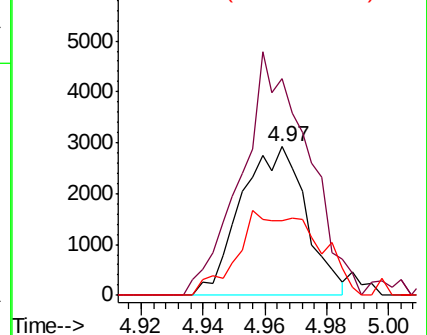
98 50.2 49.5 74.3



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: 0.057 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Tgt Ion: 43 Resp: 8372

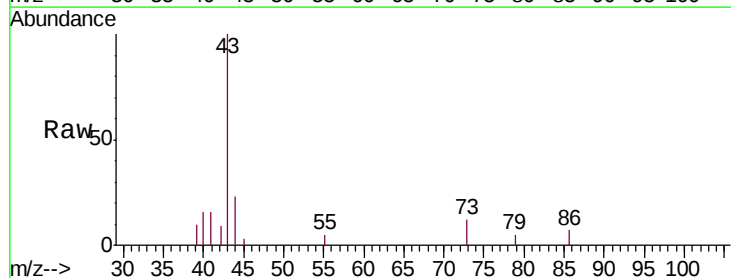
Ion Ratio Lower Upper

43 100

86 0.0 5.6 8.4#

42 0.8 8.0 12.0#

44 7.6 3.9 5.9#

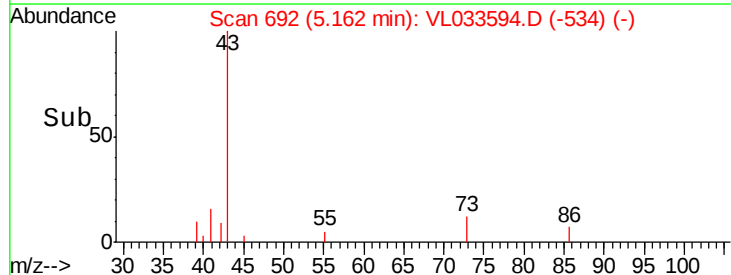
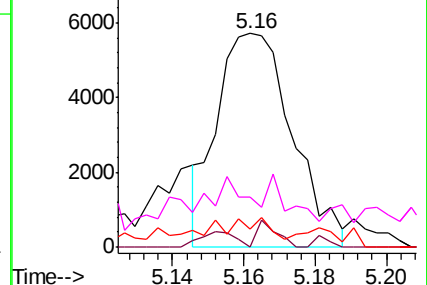


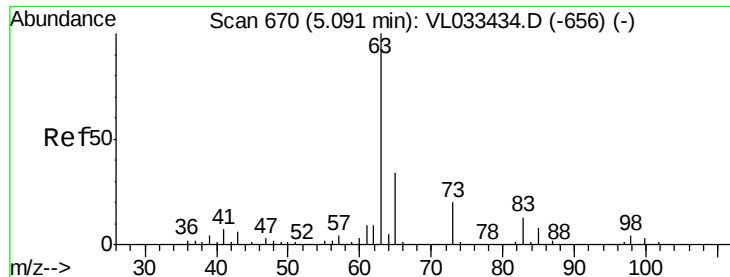
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.089 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

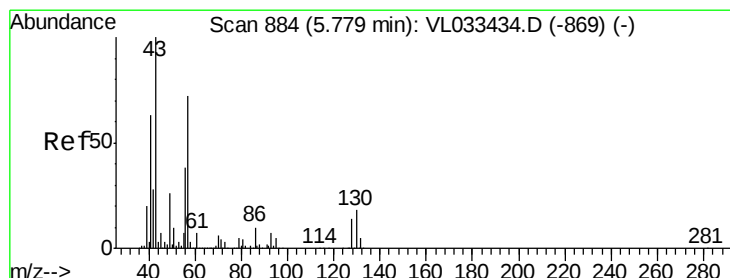
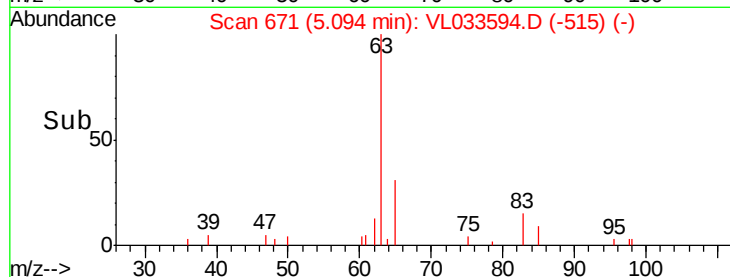
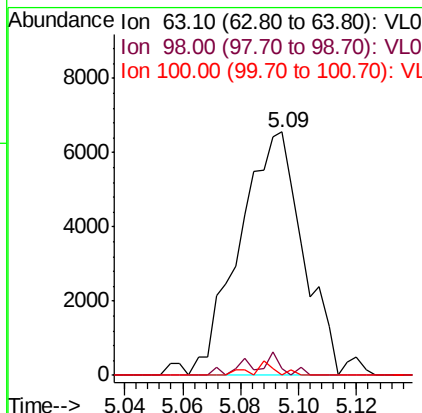
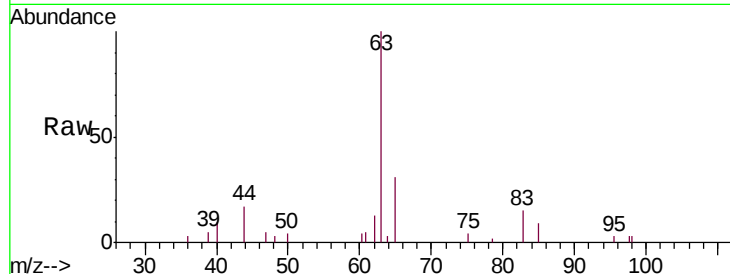
Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 9932  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 2.7   | 2.2   | 6.6   |
| 100      | 0.0   | 1.5   | 4.4#  |



#26

Hexane

Concen: 0.045 ppbv

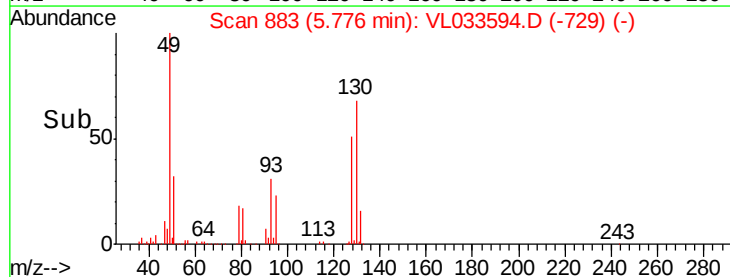
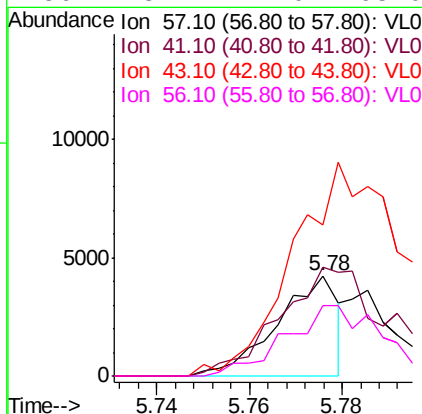
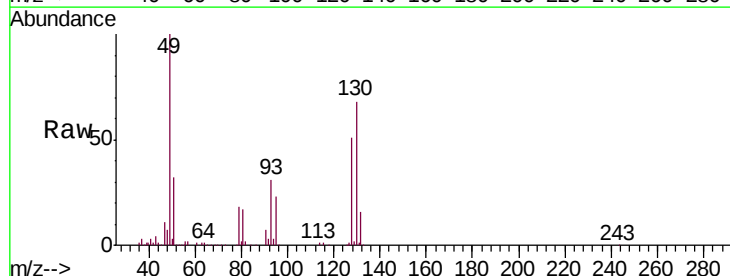
RT: 5.78 min Scan# 883

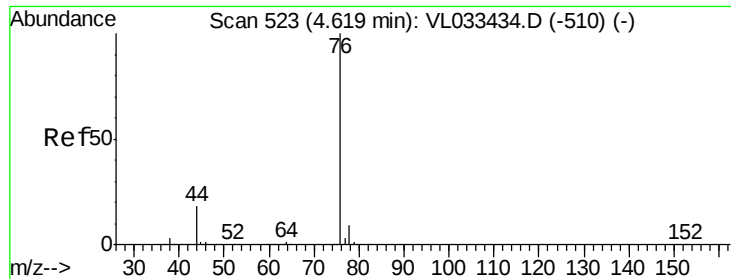
Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 3860   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 191.7 | 70.7  | 106.1# |
| 43       | 421.3 | 182.6 | 274.0# |
| 56       | 115.2 | 42.0  | 63.0#  |

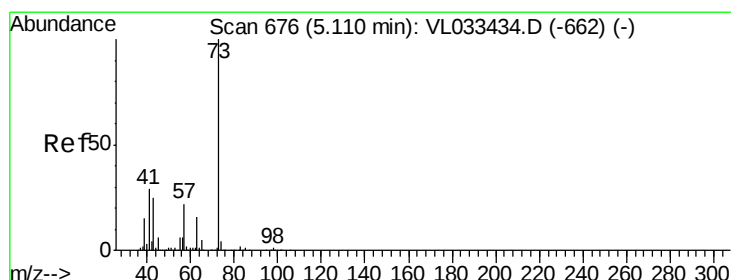
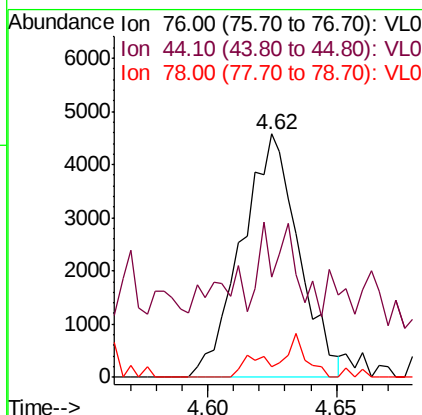
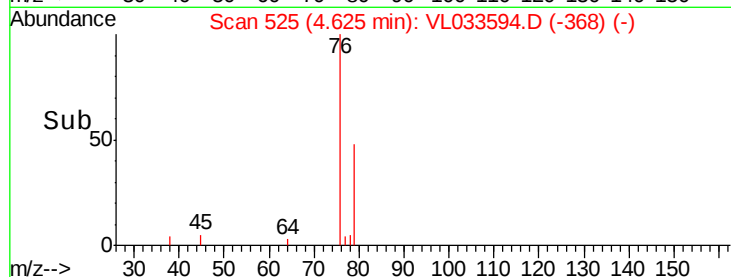
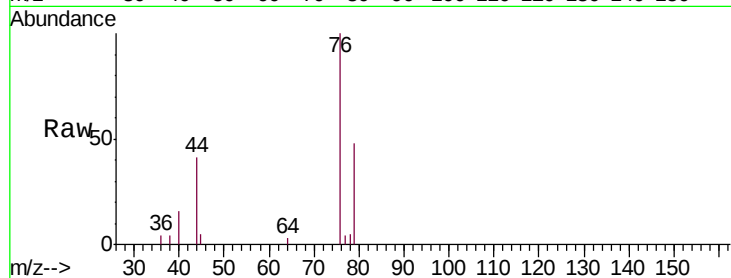




#27  
Carbon Disulfide  
Concen: 0.070 ppbv  
RT: 4.62 min Scan# 525  
Delta R.T. 0.01 min  
Lab File: VL033594.D  
Acq: 16 Apr 2019 16:14

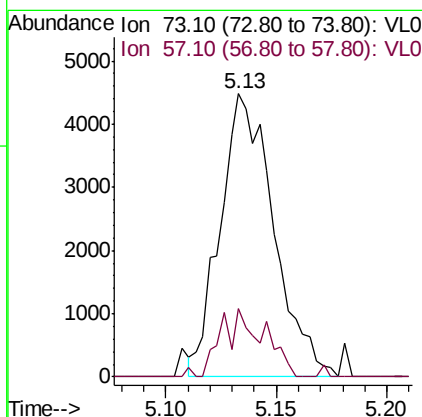
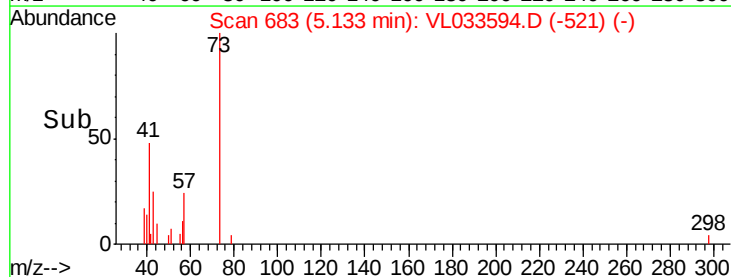
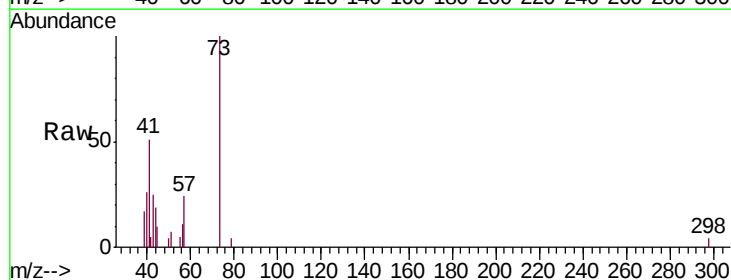
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT2-2019

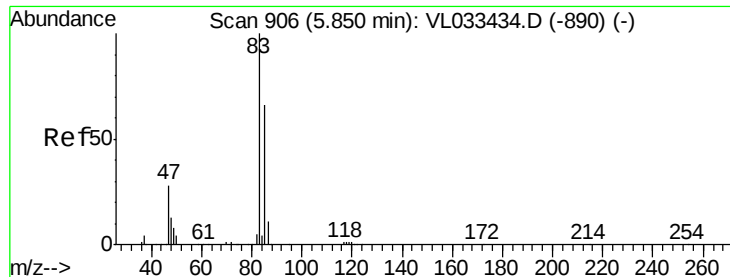
Tgt Ion: 76 Resp: 7082  
Ion Ratio Lower Upper  
76 100  
44 56.5 14.8 22.2#  
78 10.7 7.6 11.4



#28  
Methyl tert-Butyl Ether  
Concen: 0.061 ppbv  
RT: 5.13 min Scan# 683  
Delta R.T. 0.02 min  
Lab File: VL033594.D  
Acq: 16 Apr 2019 16:14

Tgt Ion: 73 Resp: 7529  
Ion Ratio Lower Upper  
73 100  
57 19.5 17.4 26.2





#29

Chloroform

Concen: 0.056 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

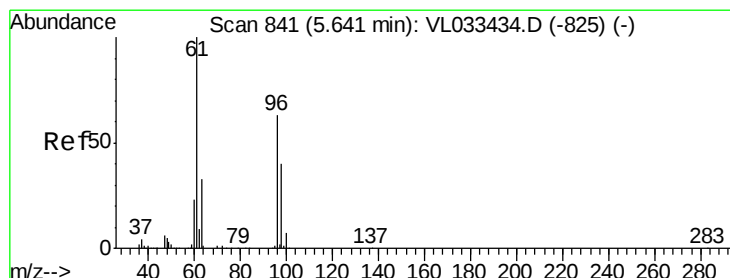
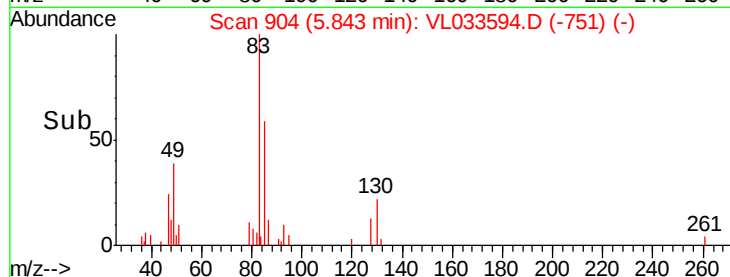
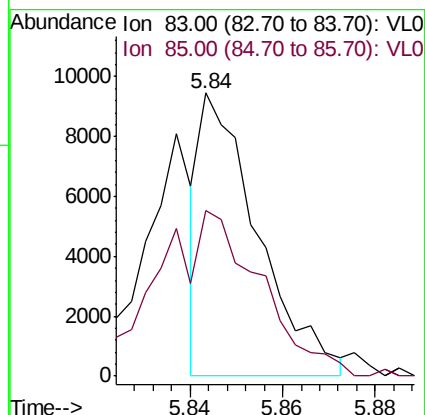
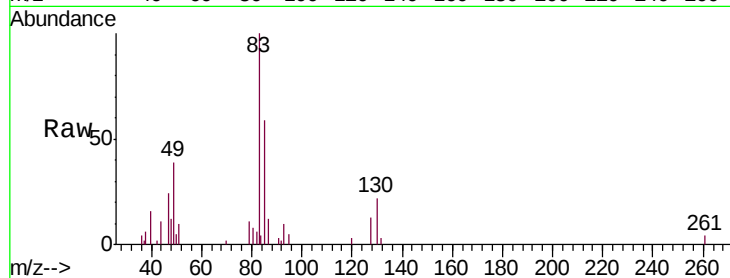
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 83 Resp: 8200

Ion Ratio Lower Upper

83 100

85 57.7 52.6 79.0



#31

cis-1,2-Dichloroethene

Concen: 0.042 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

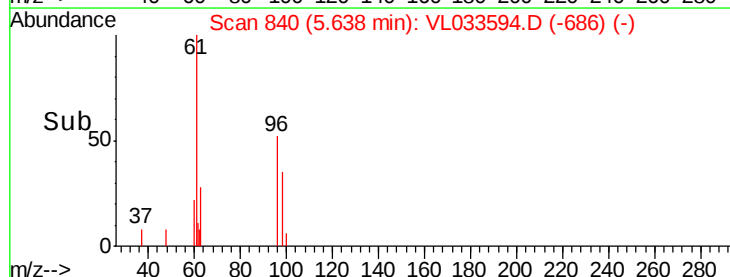
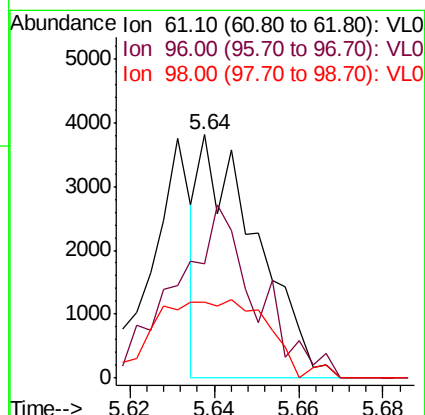
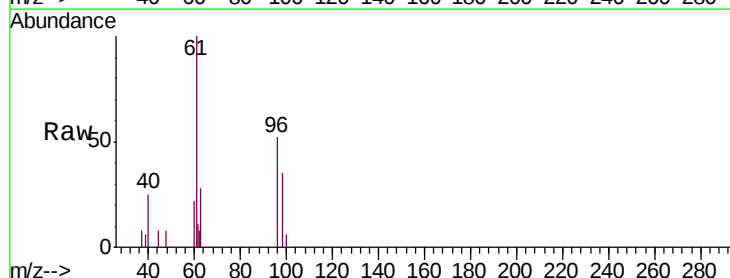
Tgt Ion: 61 Resp: 3581

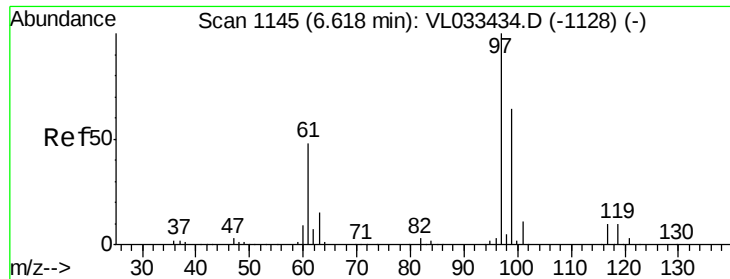
Ion Ratio Lower Upper

61 100

96 47.0 50.6 76.0#

98 31.2 32.2 48.2#

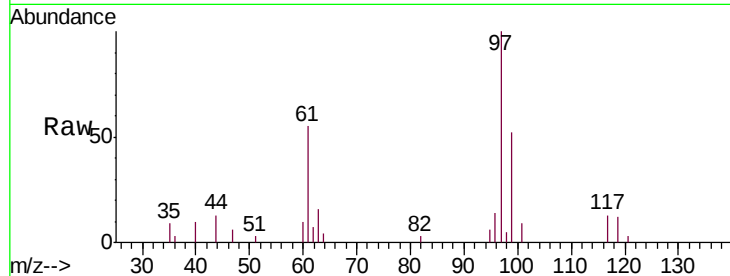




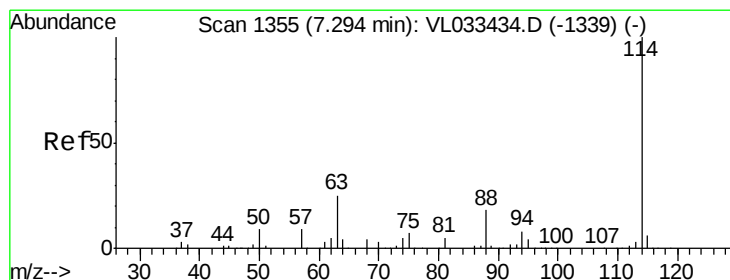
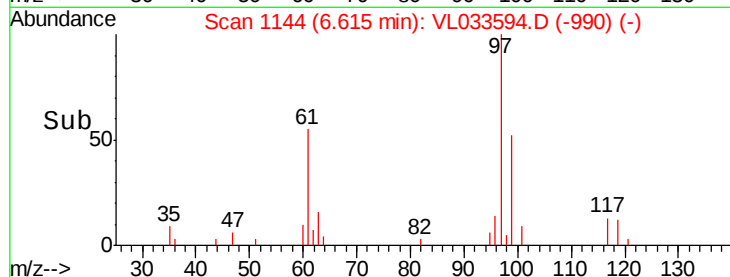
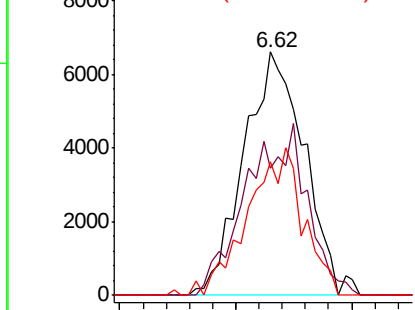
#32  
 1,1,1-Trichloroethane  
 Concen: 0.085 ppbv  
 RT: 6.62 min Scan# 1144  
 Delta R.T. -0.00 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 97 Resp: 11865  
 Ion Ratio Lower Upper  
 97 100  
 99 71.1 51.5 77.3  
 61 56.1 38.8 58.2

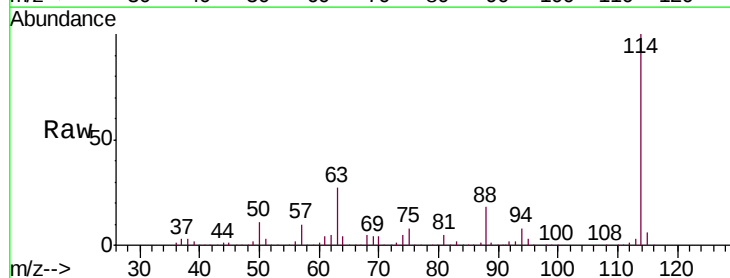


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0  
 Ion 61.10 (60.80 to 61.80): VL0

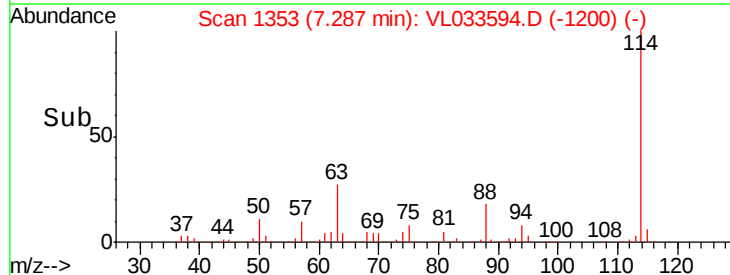
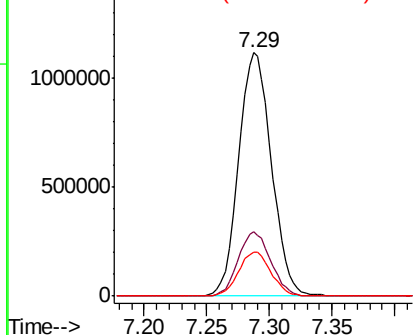


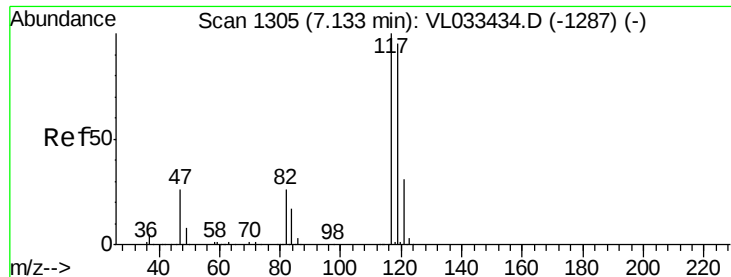
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.29 min Scan# 1353  
 Delta R.T. -0.01 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Tgt Ion: 114 Resp: 2031863  
 Ion Ratio Lower Upper  
 114 100  
 63 26.4 21.5 32.3  
 88 18.1 14.5 21.7



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





#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

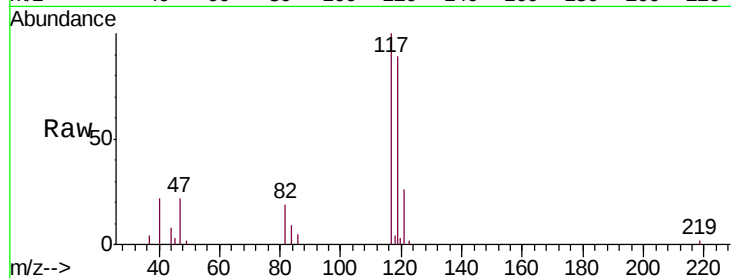
Tgt Ion:117 Resp: 6295

Ion Ratio Lower Upper

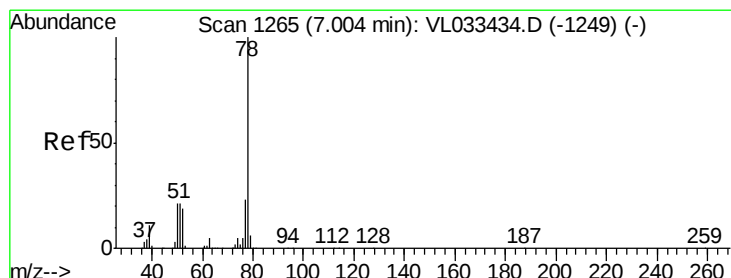
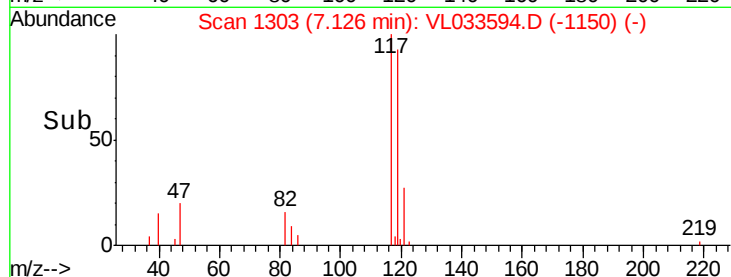
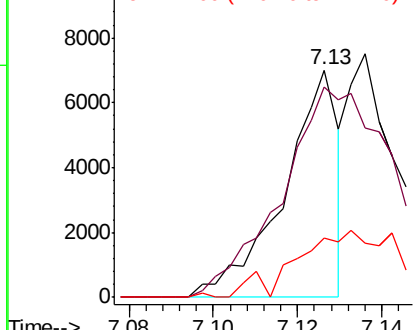
117 100

119 92.6 75.8 113.8

121 25.9 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.057 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

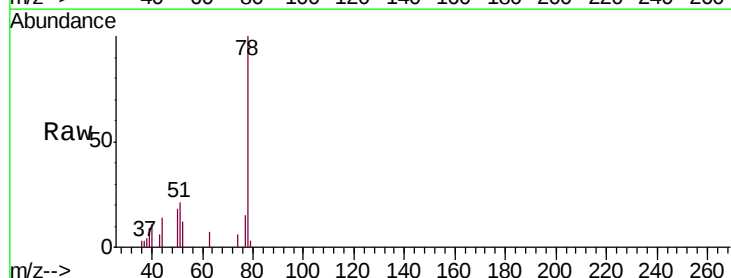
Tgt Ion: 78 Resp: 9743

Ion Ratio Lower Upper

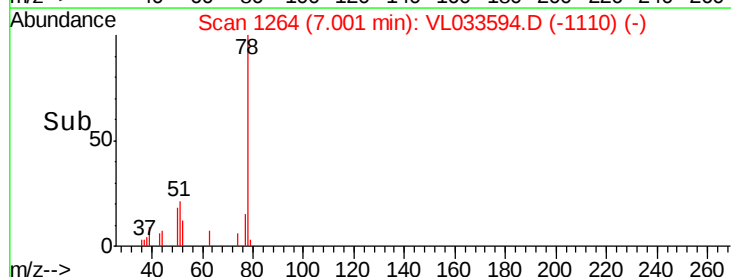
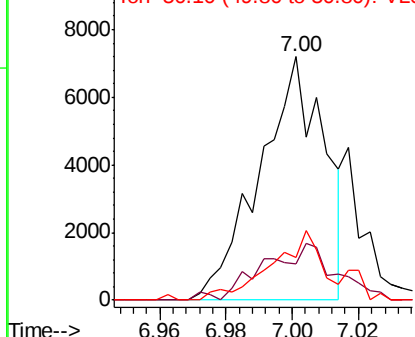
78 100

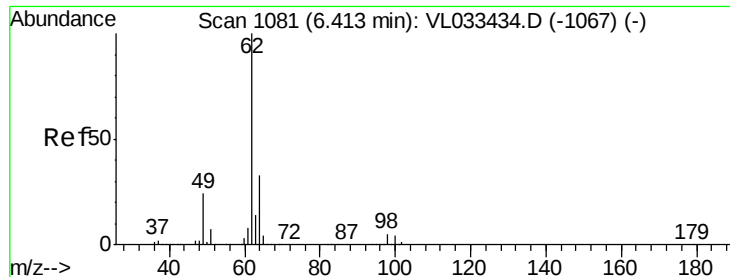
77 14.9 18.1 27.1#

50 17.6 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0

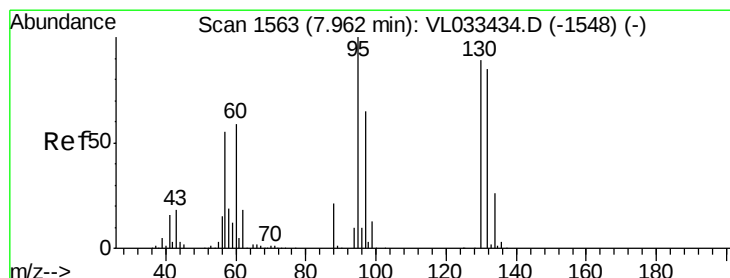
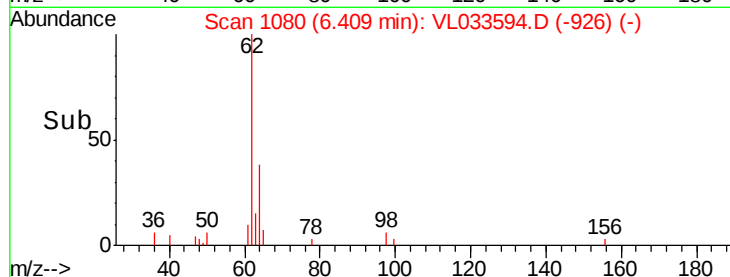
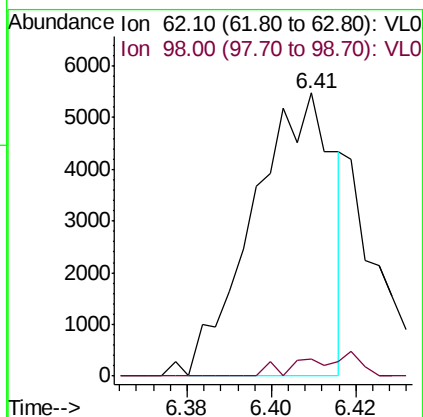
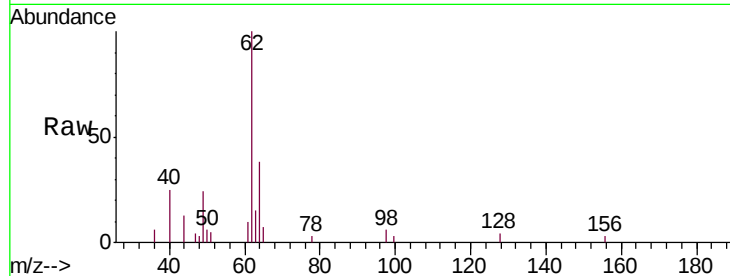




#37  
 1,2-Dichloroethane  
 Concen: 0.063 ppbv  
 RT: 6.41 min Scan# 1080  
 Delta R.T. -0.00 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

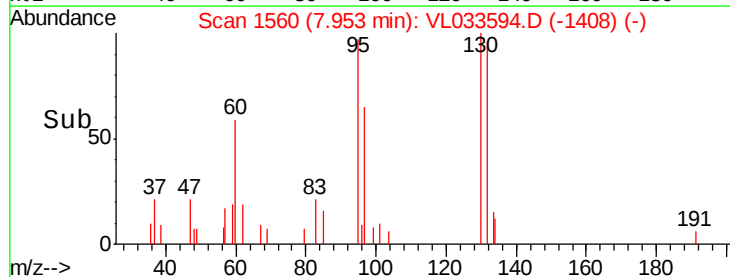
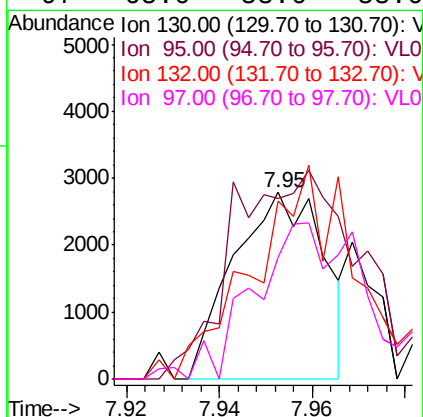
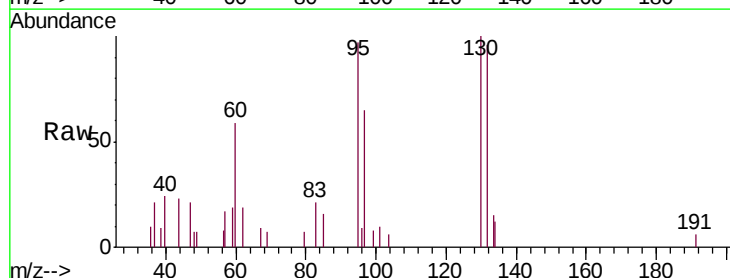
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2019

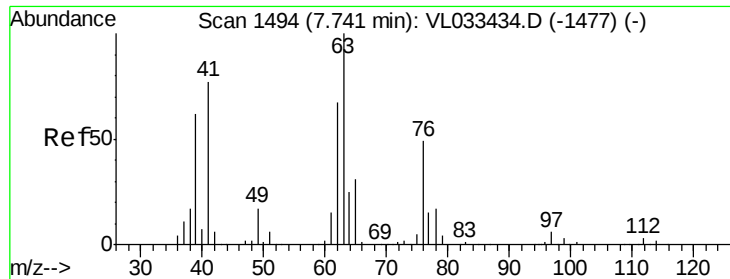
Tgt Ion: 62 Resp: 7235  
 Ion Ratio Lower Upper  
 62 100  
 98 6.3 4.4 6.6



#38  
 Trichloroethene  
 Concen: 0.058 ppbv  
 RT: 7.95 min Scan# 1560  
 Delta R.T. -0.01 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Tgt Ion: 130 Resp: 3752  
 Ion Ratio Lower Upper  
 130 100  
 95 81.0 89.8 134.8#  
 132 77.9 76.6 115.0  
 97 65.0 58.6 88.0





#39

1,2-Dichloropropane

Concen: 7.979 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

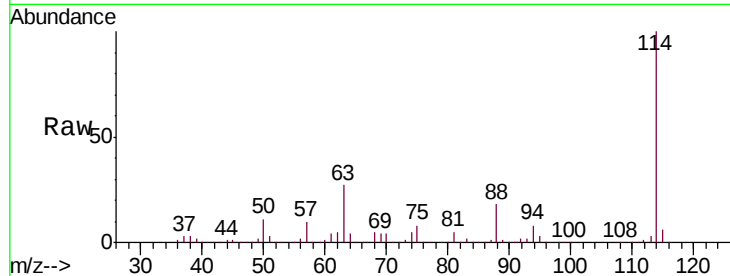
Tgt Ion: 63 Resp: 532883

Ion Ratio Lower Upper

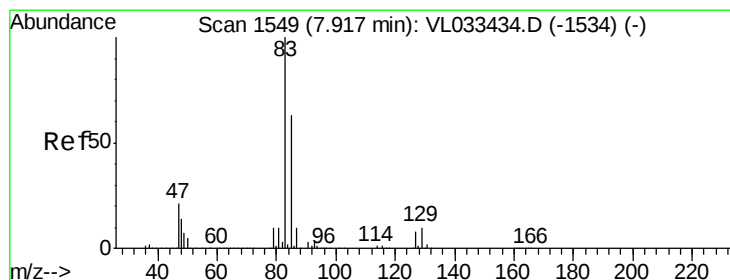
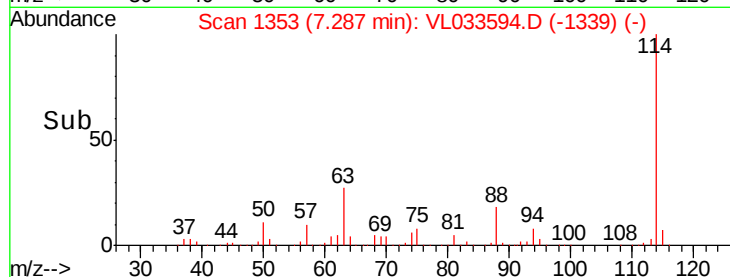
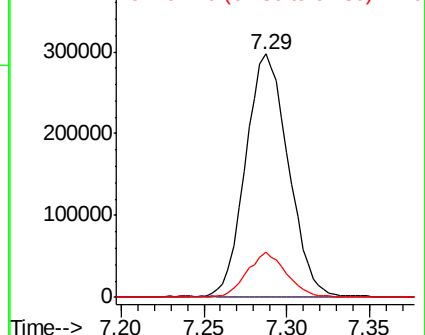
63 100

41 0.1 61.2 91.8#

62 18.5 54.0 81.0#



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



#42

Bromodichloromethane

Concen: 0.057 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

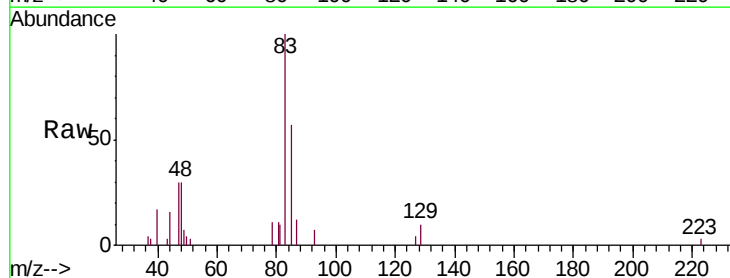
Tgt Ion: 83 Resp: 8916

Ion Ratio Lower Upper

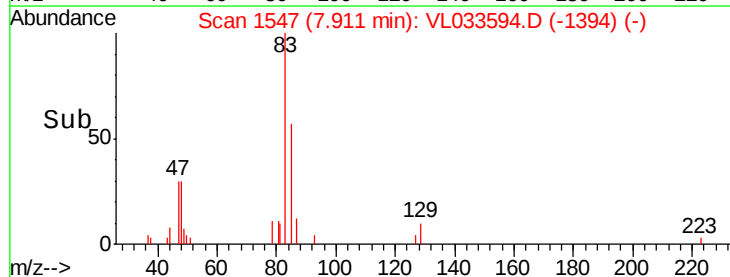
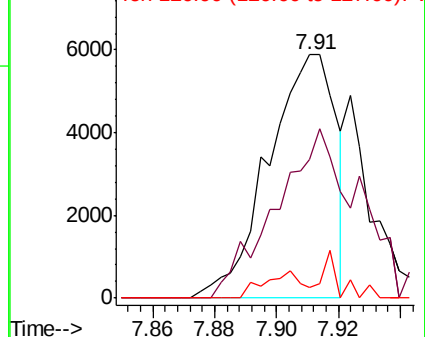
83 100

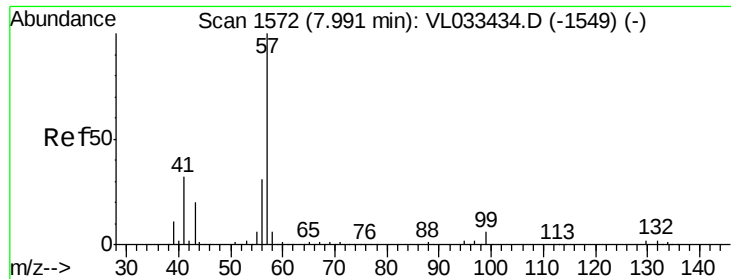
85 57.1 50.7 76.1

127 4.4 6.6 9.8#



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





#44

2,2,4-Trimethylpentane

Concen: 0.035 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

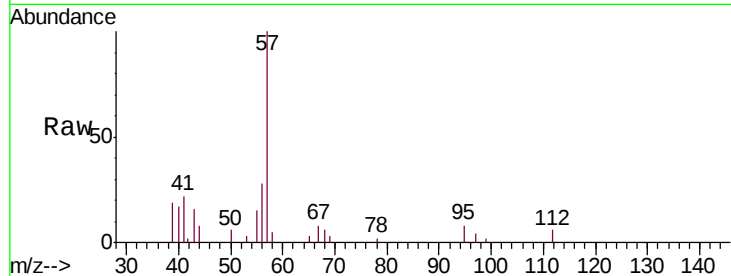
Tgt Ion: 57 Resp: 10283

Ion Ratio Lower Upper

57 100

41 65.7 26.0 39.0#

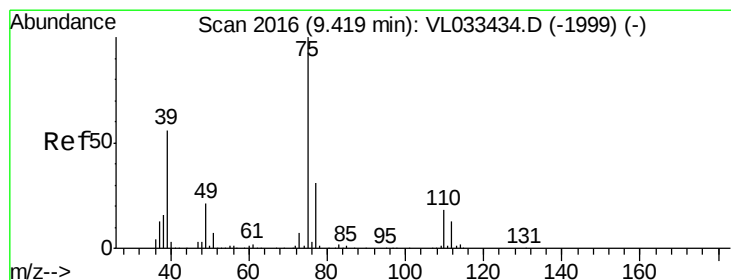
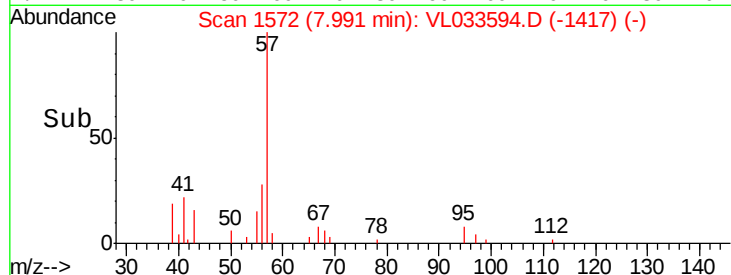
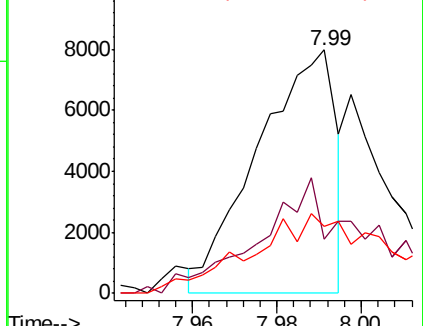
56 57.1 24.6 37.0#



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: 0.046 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033594.D

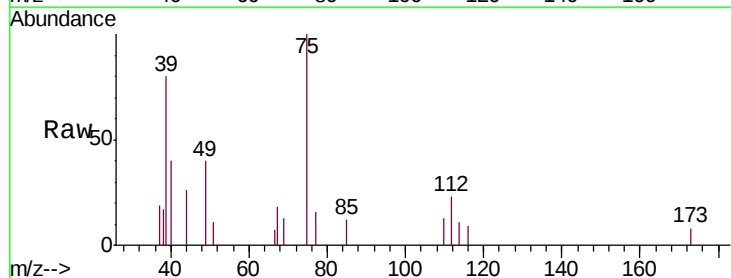
Acq: 16 Apr 2019 16:14

Tgt Ion: 75 Resp: 3938

Ion Ratio Lower Upper

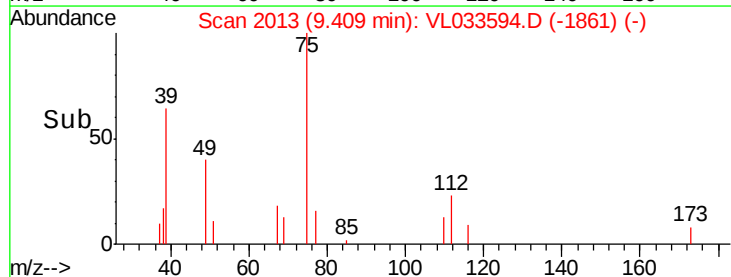
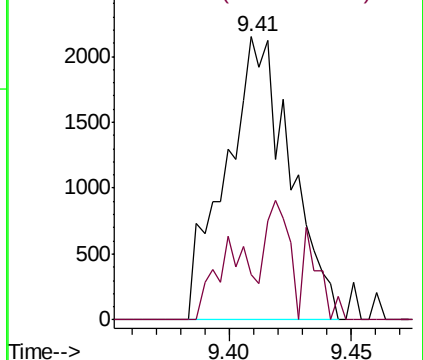
75 100

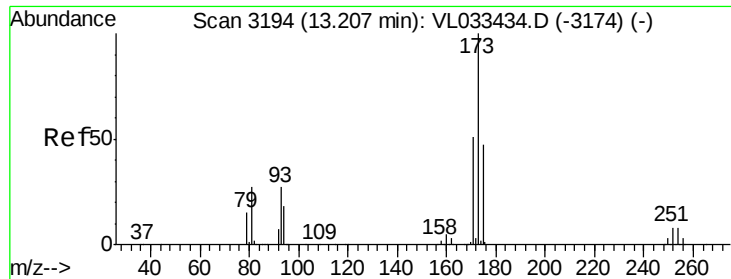
77 16.1 24.5 36.7#



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#49

Bromoform

Concen: 0.033 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. -0.02 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

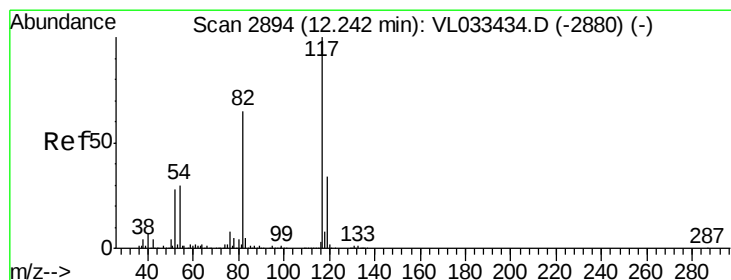
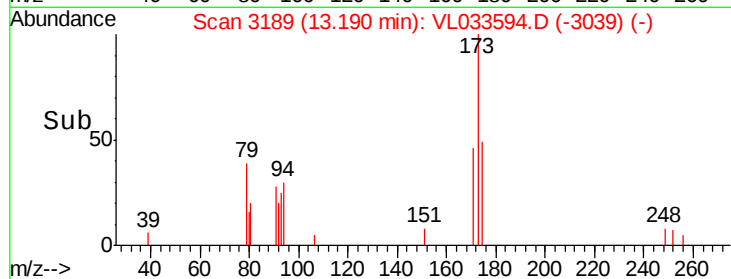
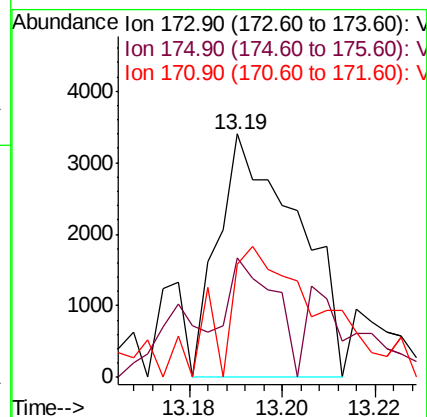
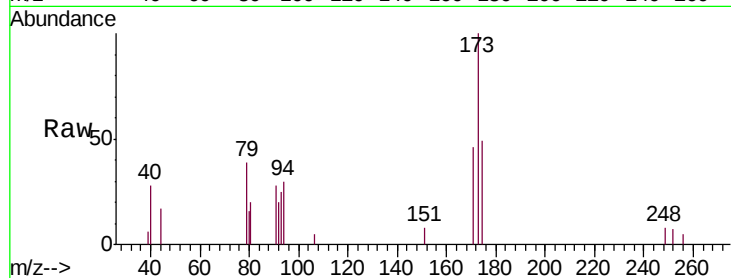
Tgt Ion:173 Resp: 4041

Ion Ratio Lower Upper

173 100

175 73.9 39.3 58.9#

171 72.7 41.2 61.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

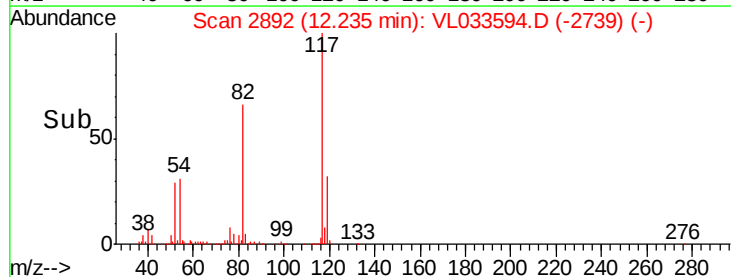
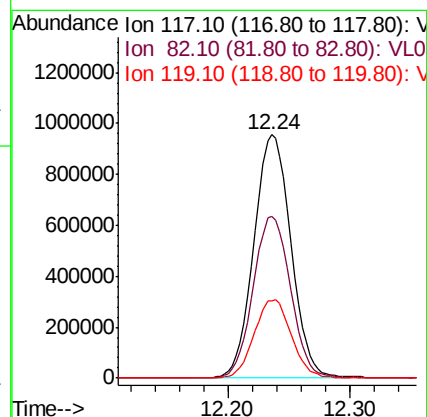
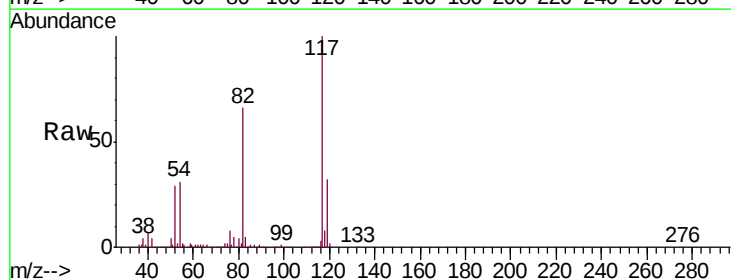
Tgt Ion:117 Resp: 2005200

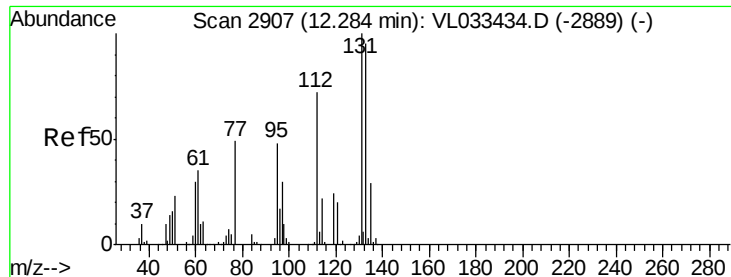
Ion Ratio Lower Upper

117 100

82 67.3 51.5 77.3

119 32.5 25.5 38.3

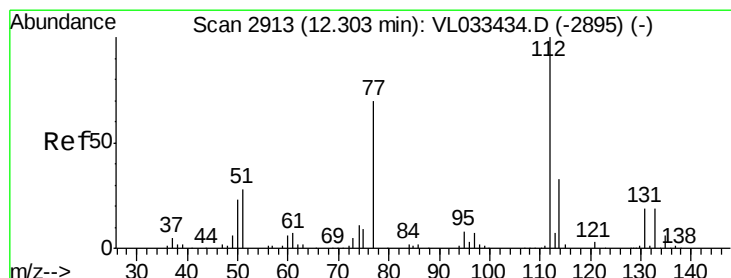
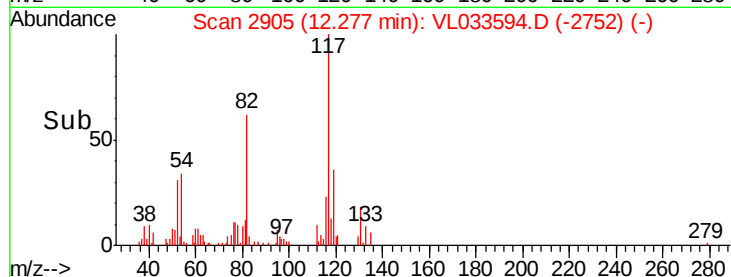
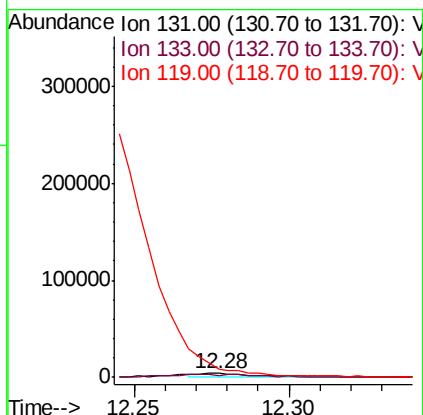
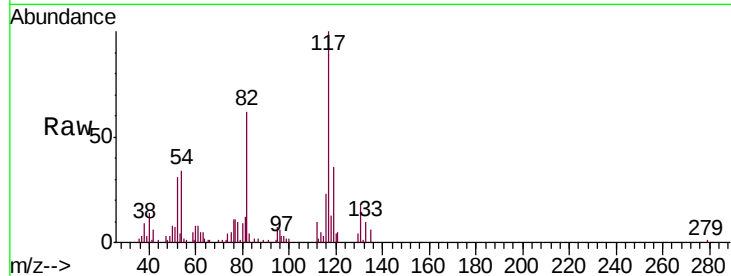




#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 0.061 ppbv  
 RT: 12.28 min Scan# 2905  
 Delta R.T. -0.01 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

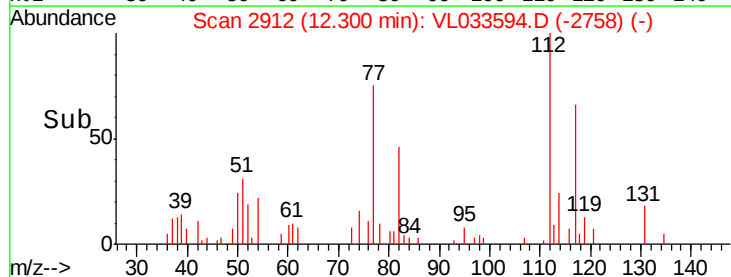
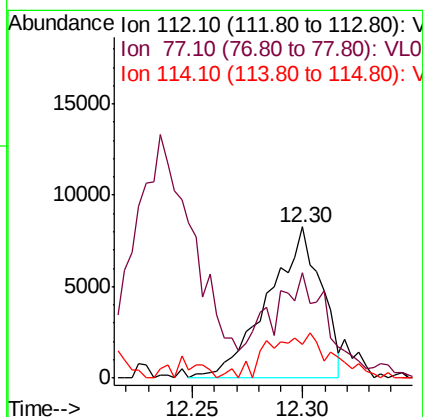
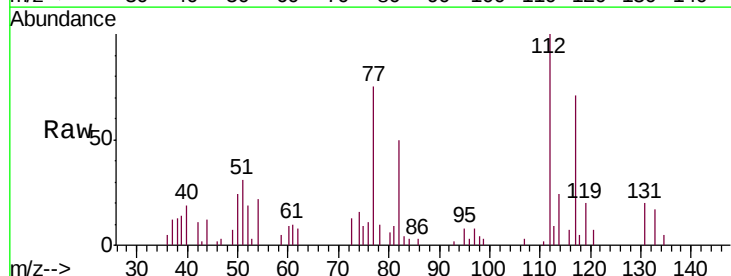
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2019

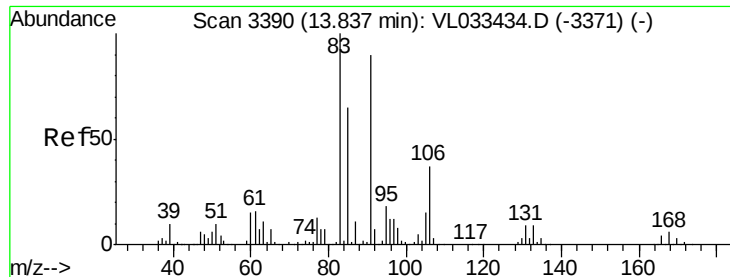
Tgt Ion:131 Resp: 5614  
 Ion Ratio Lower Upper  
 131 100  
 133 129.2 76.2 114.4#  
 119 0.0 45.0 67.6#



#57  
 Chlorobenzene  
 Concen: 0.088 ppbv  
 RT: 12.30 min Scan# 2912  
 Delta R.T. -0.00 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Tgt Ion:112 Resp: 13734  
 Ion Ratio Lower Upper  
 112 100  
 77 48.8 57.3 85.9#  
 114 17.2 29.8 36.4#

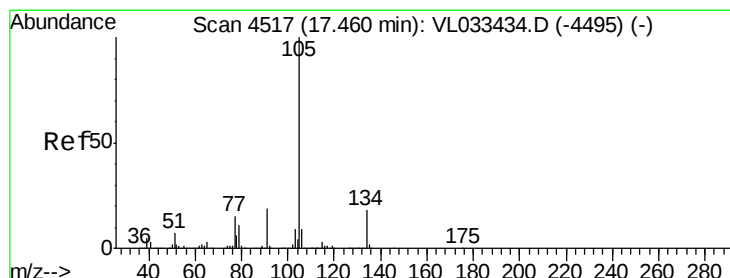
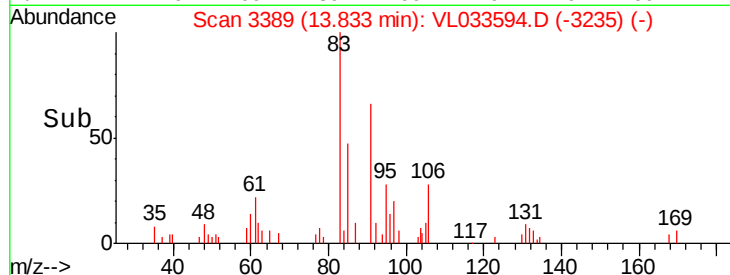
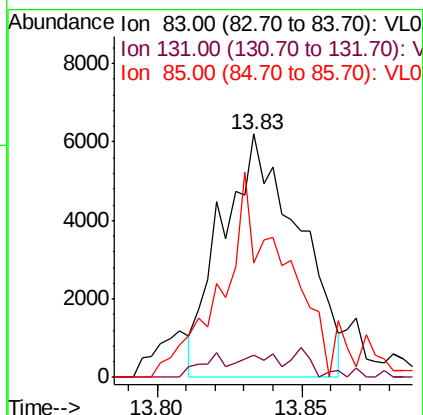
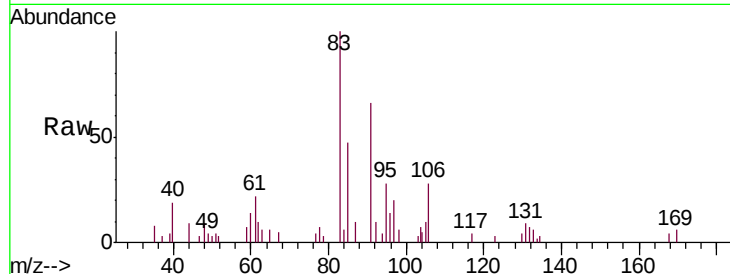




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.067 ppbv  
 RT: 13.83 min Scan# 3389  
 Delta R.T. -0.00 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

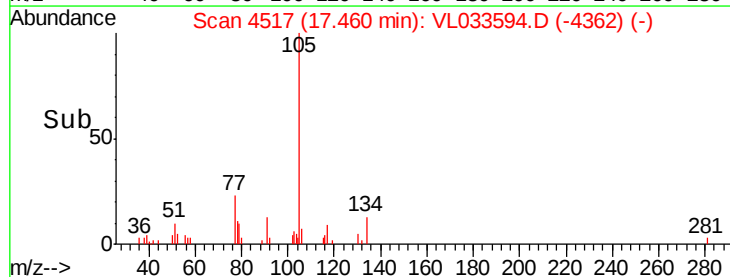
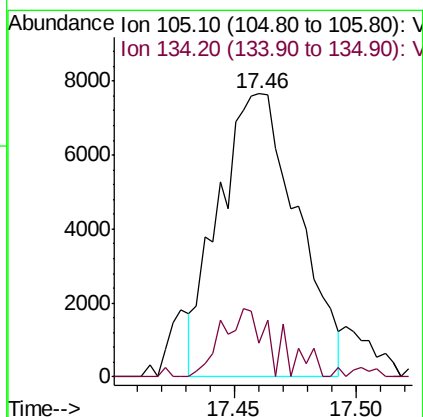
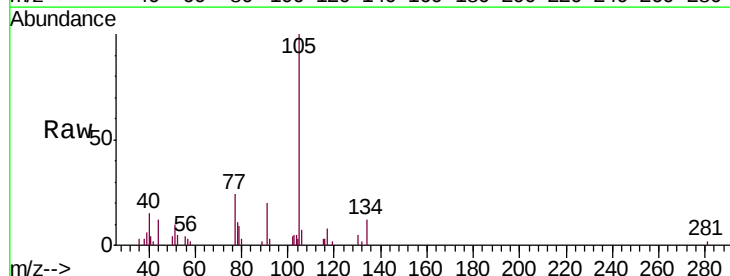
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2019

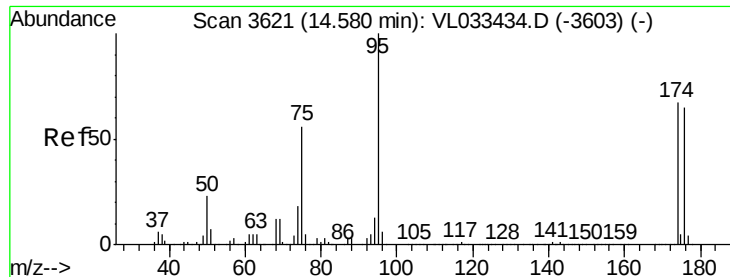
Tgt Ion: 83 Resp: 11458  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 4.7 14.0#  
 85 70.8 32.7 98.1



#67  
 sec-Butylbenzene  
 Concen: 0.042 ppbv  
 RT: 17.46 min Scan# 4517  
 Delta R.T. -0.00 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Tgt Ion: 105 Resp: 17131  
 Ion Ratio Lower Upper  
 105 100  
 134 17.9 14.6 21.8

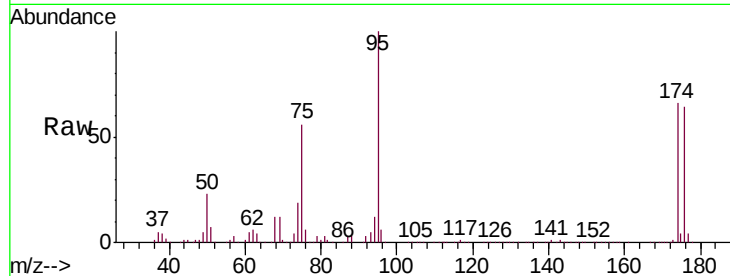




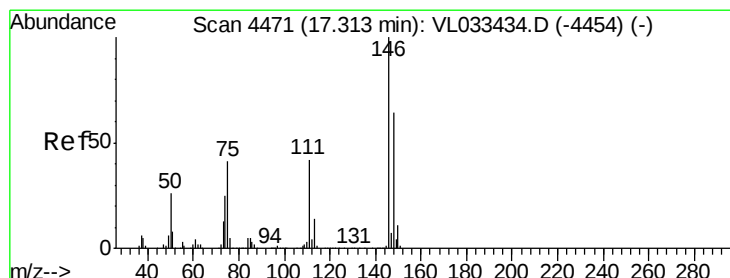
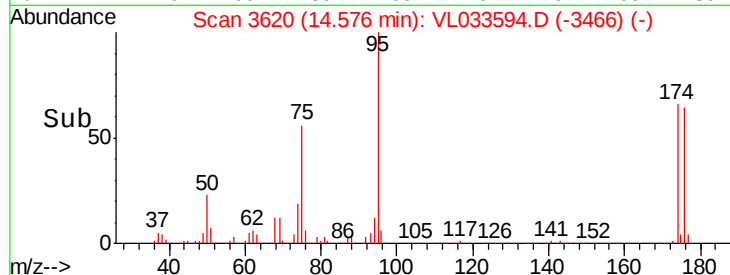
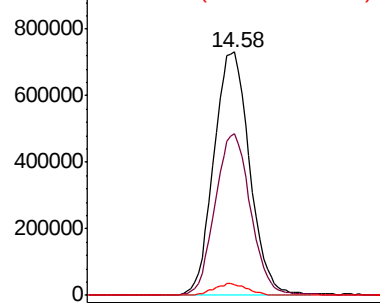
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.258 ppbv  
 RT: 14.58 min Scan# 3620  
 Delta R.T. -0.00 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 95 Resp: 1612616  
 Ion Ratio Lower Upper  
 95 100  
 174 66.4 52.9 79.3  
 175 4.7 3.8 5.6

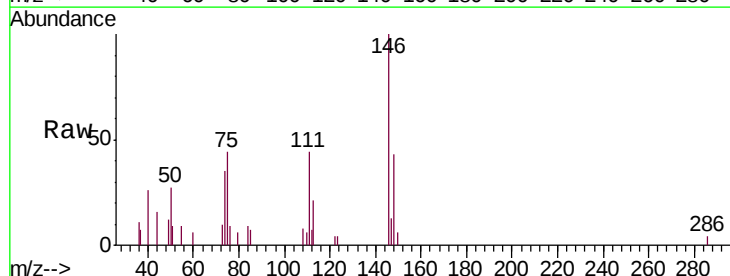


Abundance Ion 95.10 (94.80 to 95.80): VL0  
 Ion 174.00 (173.70 to 174.70): V  
 Ion 175.00 (174.70 to 175.70): V

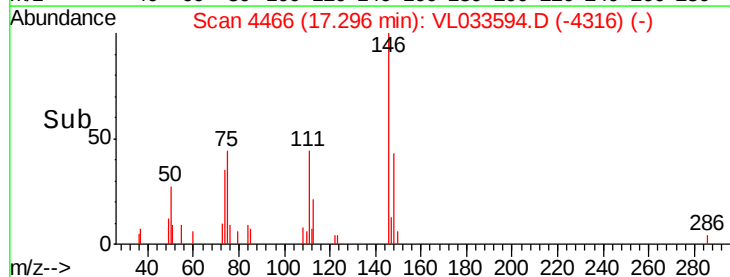
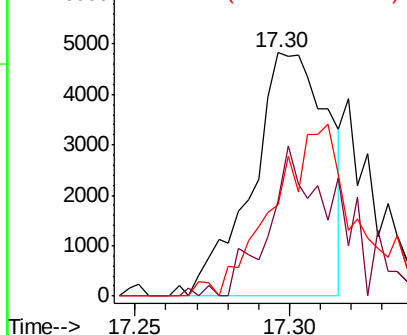


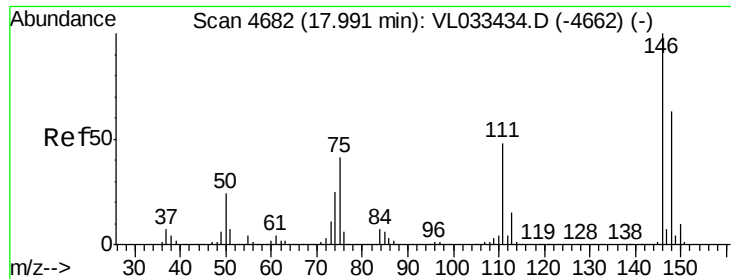
#76  
 1,4-Dichlorobenzene  
 Concen: 0.051 ppbv  
 RT: 17.30 min Scan# 4466  
 Delta R.T. -0.02 min  
 Lab File: VL033594.D  
 Acq: 16 Apr 2019 16:14

Tgt Ion: 146 Resp: 8240  
 Ion Ratio Lower Upper  
 146 100  
 111 58.9 21.7 65.1  
 148 0.0 32.0 96.2#



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: 0.035 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

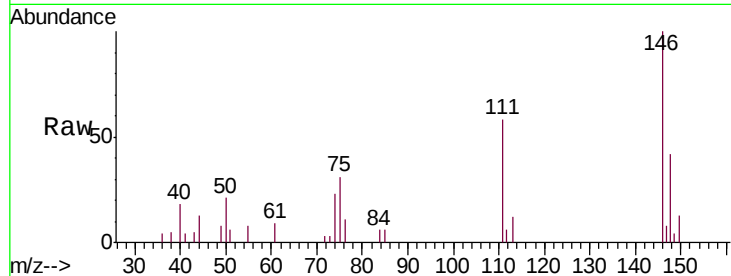
Tgt Ion:146 Resp: 5463

Ion Ratio Lower Upper

146 100

111 95.6 23.5 70.5#

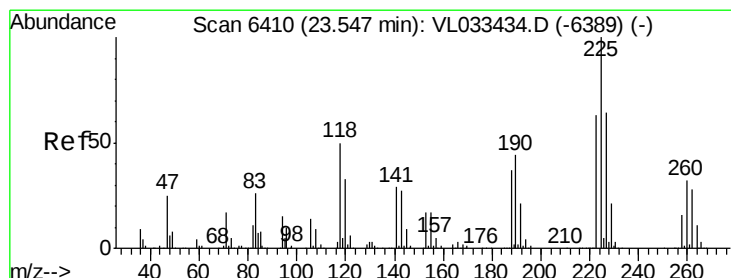
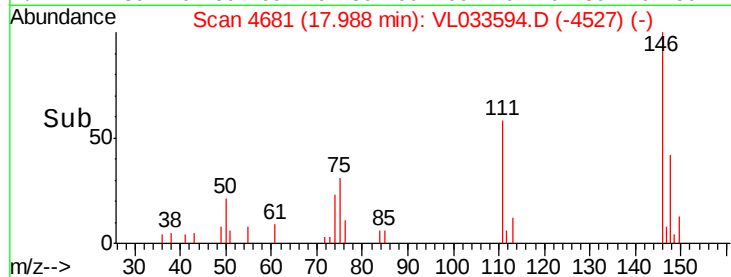
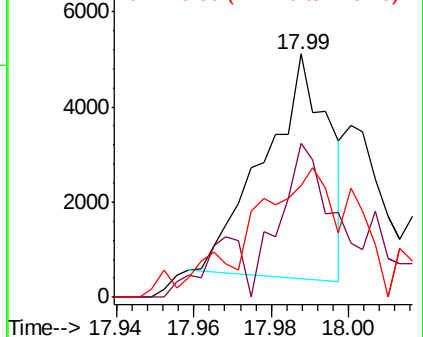
148 107.7 32.0 96.0#



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



#78

Hexachloro-1,3-Butadiene

Concen: 0.034 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. -0.01 min

Lab File: VL033594.D

Acq: 16 Apr 2019 16:14

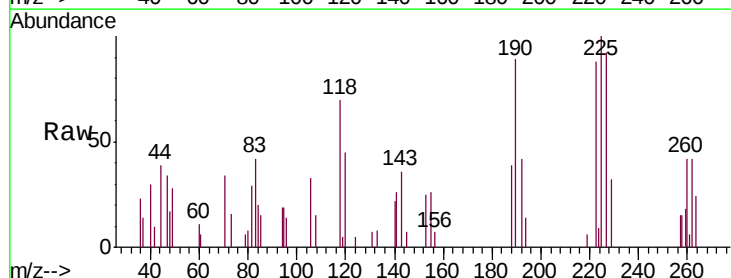
Tgt Ion:225 Resp: 3545

Ion Ratio Lower Upper

225 100

223 210.8 50.0 75.0#

227 0.0 51.1 76.7#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

