

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\  
 Data File : VL033481.D  
 Acq On : 27 Mar 2019 23:29  
 Operator : SY/AP  
 Sample : K2042-15  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Mar 28 07:31:00 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   | 5.75  | 49   | 762734   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 1774100  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.23 | 117  | 1727137  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1384947  | 10.23    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.30% |

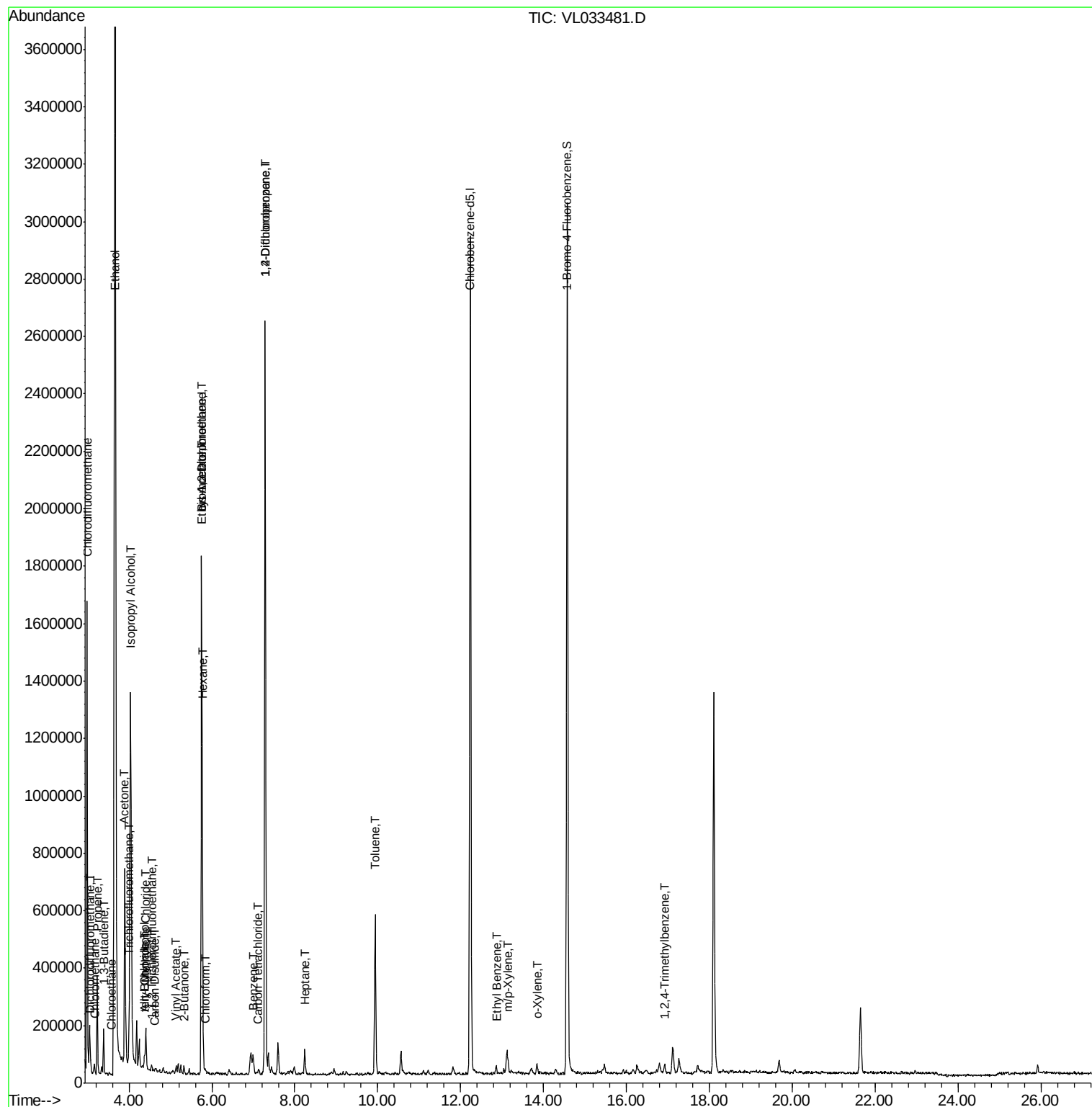
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.07  | 85   | 30882    | 0.278   | ppbv   | 90     |
| 3) Chlorodifluoromethane       | 2.99  | 51   | 937310   | 10.674  | ppbv # | 58     |
| 4) Chloromethane               | 3.17  | 50   | 26118    | 0.562   | ppbv   | 96     |
| 7) Chloroethane                | 3.59  | 64   | 350      | 0.021   | ppbv # | 41     |
| 9) Propene                     | 3.23  | 41   | 76559    | 2.076   | ppbv   | 89     |
| 10) Heptane                    | 8.25  | 43   | 26846    | 0.272   | ppbv   | 96     |
| 11) Trichlorofluoromethane     | 4.00  | 101  | 33416    | 0.244   | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.54  | 101  | 4823     | 0.052   | ppbv # | 67     |
| 13) Ethanol                    | 3.66  | 45   | 6252532  | 655.223 | ppbv   | 65     |
| 15) Acetone                    | 3.89  | 43   | 674284   | 7.352   | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.39  | 39   | 21166    | 0.582   | ppbv # | 21     |
| 17) tert-Butyl alcohol         | 4.37  | 59   | 7103     | 0.421   | ppbv # | 50     |
| 19) Isopropyl Alcohol          | 4.04  | 45   | 1801323  | 31.053  | ppbv   | 99     |
| 20) Methylene Chloride         | 4.41  | 84   | 46968    | 1.206   | ppbv   | 88     |
| 21) Allyl Chloride             | 4.37  | 41   | 1982     | 0.034   | ppbv # | 1      |
| 23) Vinyl Acetate              | 5.14  | 43   | 16515    | 0.127   | ppbv # | 66     |
| 25) Ethyl Acetate              | 5.77  | 43   | 86267    | 0.507   | ppbv # | 96     |
| 26) Hexane                     | 5.78  | 57   | 68329    | 0.903   | ppbv # | 58     |
| 27) Carbon Disulfide           | 4.61  | 76   | 1938     | 0.022   | ppbv # | 1      |
| 29) Chloroform                 | 5.84  | 83   | 3164     | 0.024   | ppbv # | 80     |
| 31) cis-1,2-Dichloroethene     | 5.75  | 61   | 1626     | 0.022   | ppbv # | 47     |
| 34) 2-Butanone                 | 5.33  | 43   | 27896    | 0.262   | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.12  | 117  | 3228     | 0.026   | ppbv # | 83     |
| 36) Benzene                    | 7.00  | 78   | 40953    | 0.275   | ppbv   | 93     |
| 39) 1,2-Dichloropropane        | 7.28  | 63   | 473374   | 8.118   | ppbv # | 23     |
| 53) Toluene                    | 9.94  | 91   | 392366   | 2.268   | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.86 | 91   | 21356    | 0.093   | ppbv   | 89     |
| 59) m/p-Xylene                 | 13.14 | 91   | 17873    | 0.087   | ppbv # | 100    |
| 60) o-Xylene                   | 13.84 | 91   | 15794    | 0.079   | ppbv # | 33     |
| 74) 1,2,4-Trimethylbenzene     | 16.92 | 105  | 16730    | 0.073   | ppbv # | 53     |

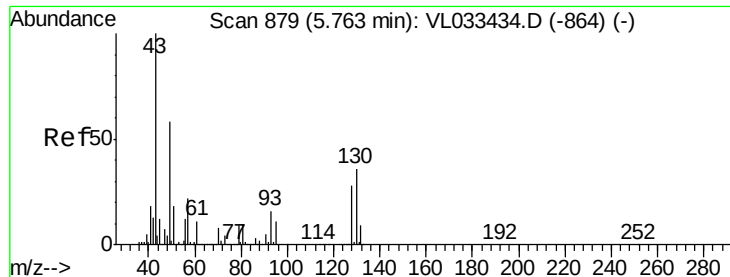
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

ClientSampled :

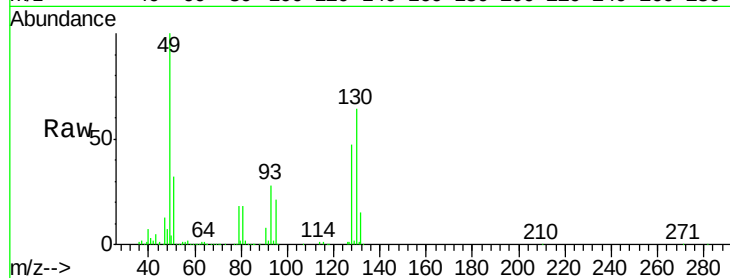
Tot Ion: 49 Resp: 762734

Ion Ratio Lower Upper

49 100

128 48.1 24.0 72.0

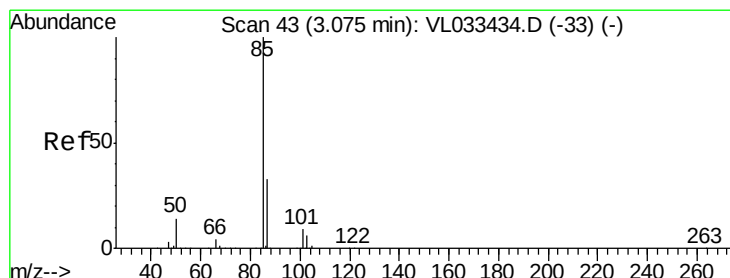
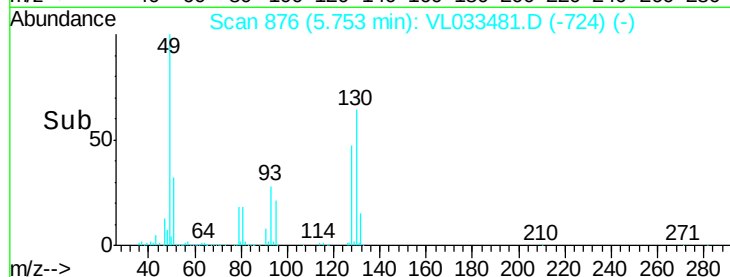
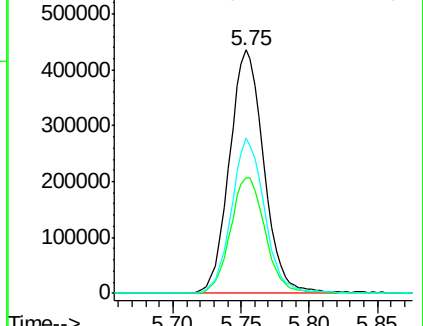
130 61.8 31.2 93.6



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: 0.278 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033481.D

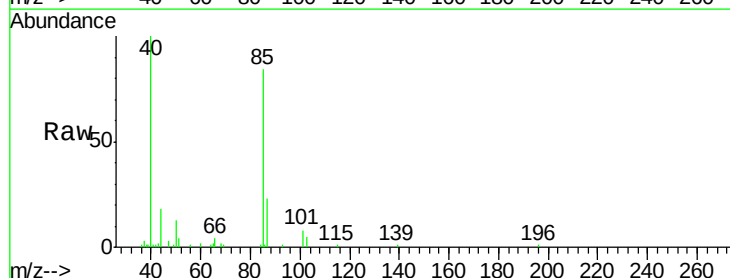
Acq: 27 Mar 2019 23:29

Tgt Ion: 85 Resp: 30882

Ion Ratio Lower Upper

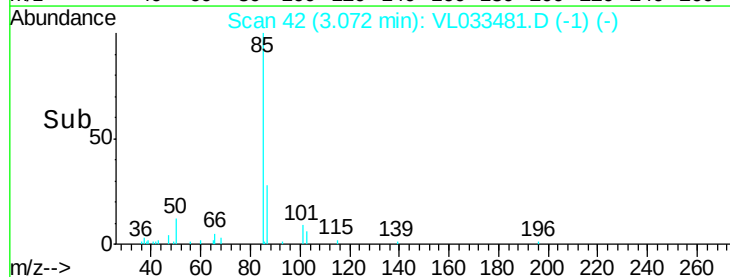
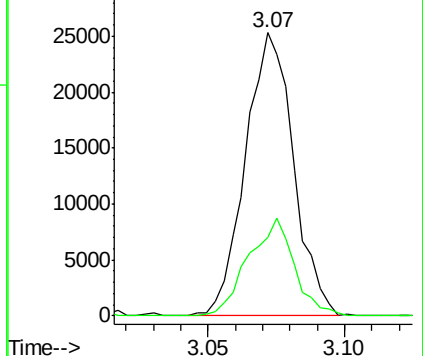
85 100

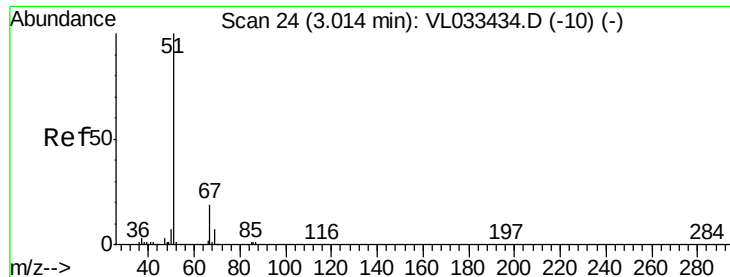
87 27.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

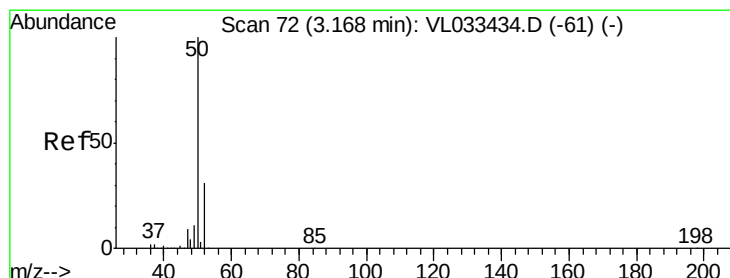
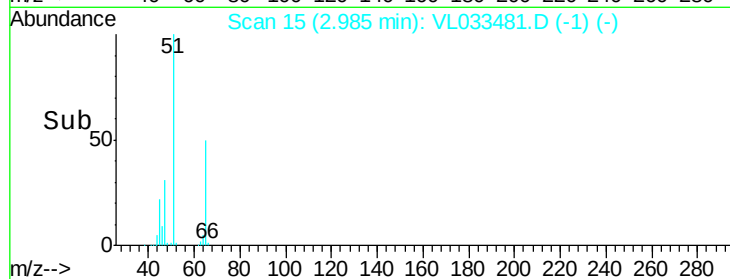
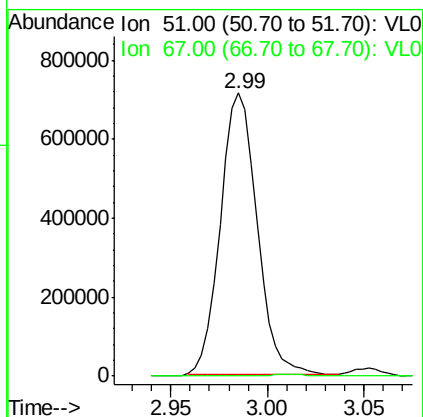
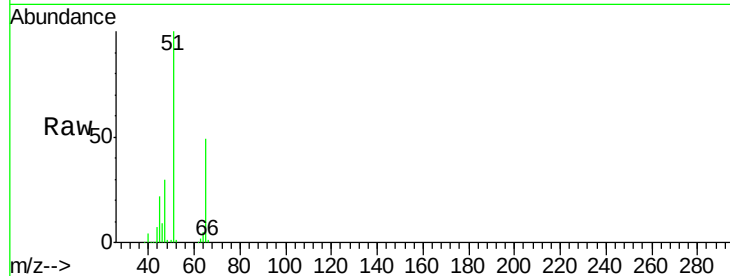




#3  
Chlorodifluoromethane  
Concen: 10.674 ppbv  
RT: 2.99 min Scan# 15  
Delta R.T. -0.03 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

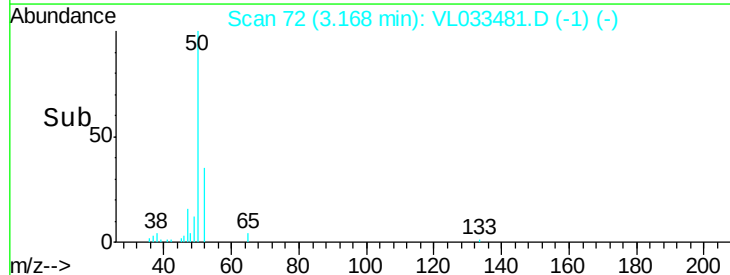
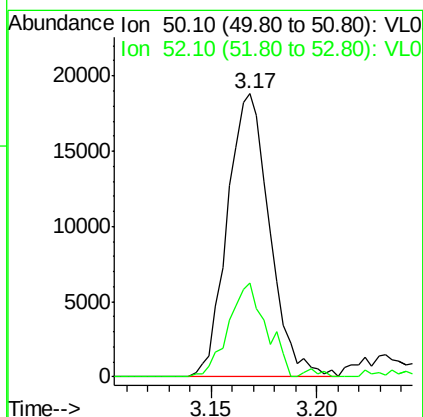
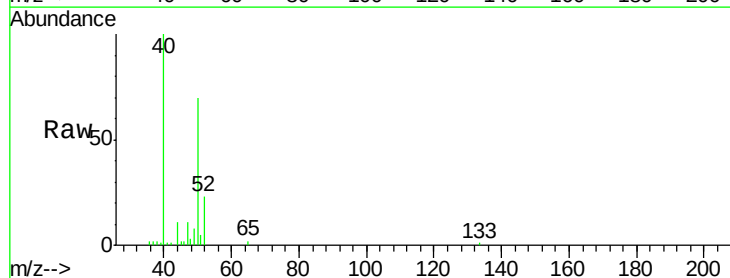
Instrument :  
MSVOA\_L  
ClientSampleId :

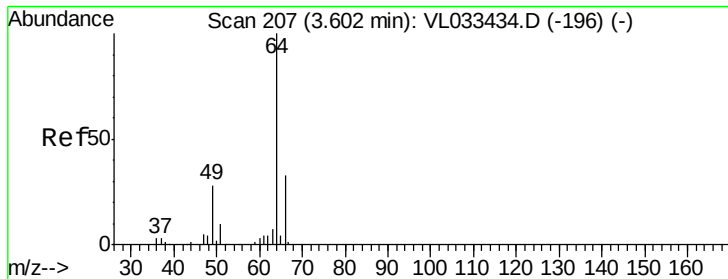
Tot Ion: 51 Resp: 937310  
Ion Ratio Lower Upper  
51 100  
67 0.6 15.7 23.5#



#4  
Chloromethane  
Concen: 0.562 ppbv  
RT: 3.17 min Scan# 72  
Delta R.T. -0.00 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 50 Resp: 26118  
Ion Ratio Lower Upper  
50 100  
52 33.3 25.0 37.6





#7

Chloroethane

Concen: 0.021 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

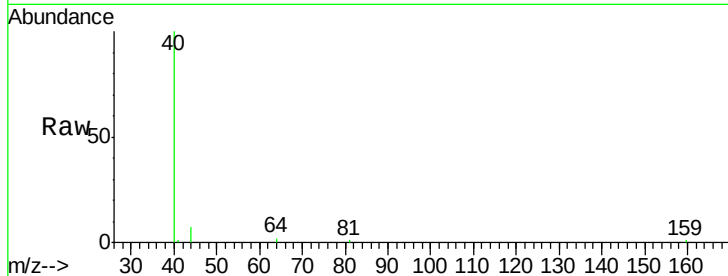
ClientSampleId :

Tot Ion: 64 Resp: 350

Ion Ratio Lower Upper

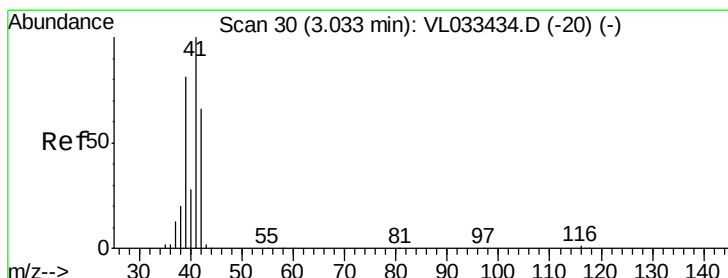
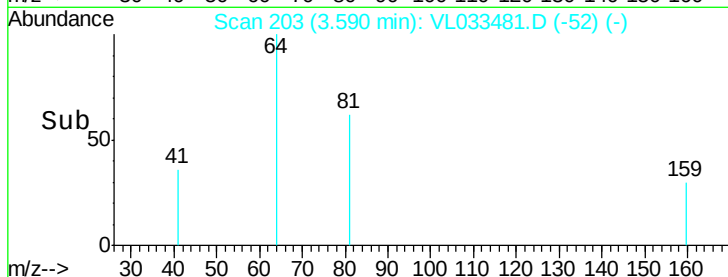
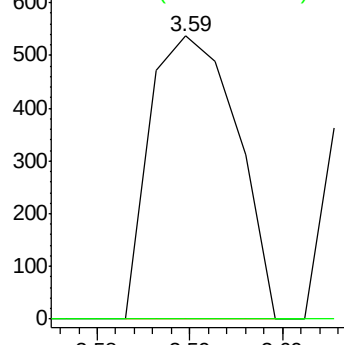
64 100

66 0.0 26.7 40.1#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 2.076 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.20 min

Lab File: VL033481.D

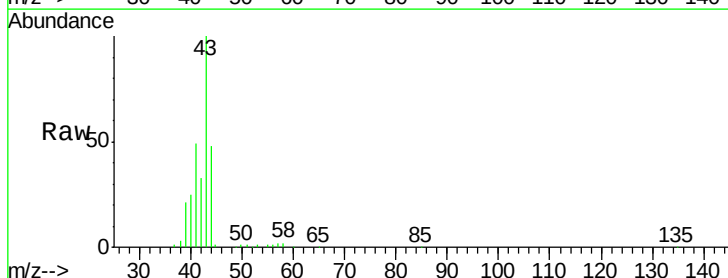
Acq: 27 Mar 2019 23:29

Tgt Ion: 41 Resp: 76559

Ion Ratio Lower Upper

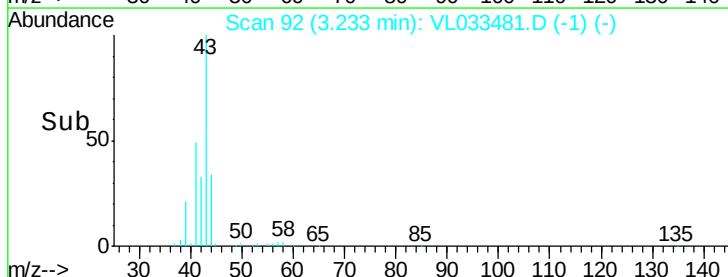
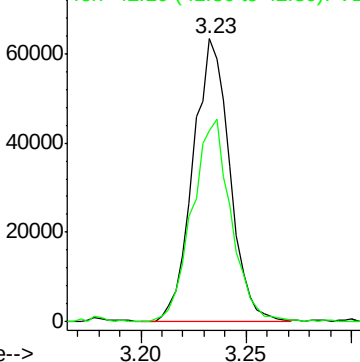
41 100

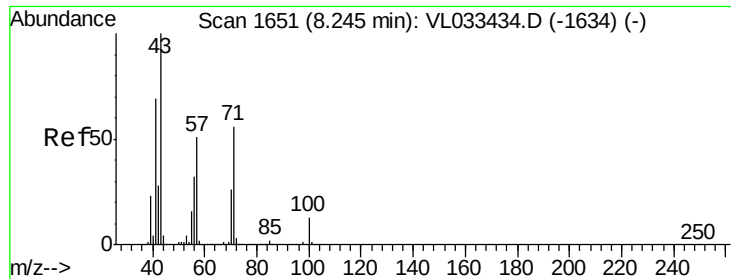
42 76.5 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

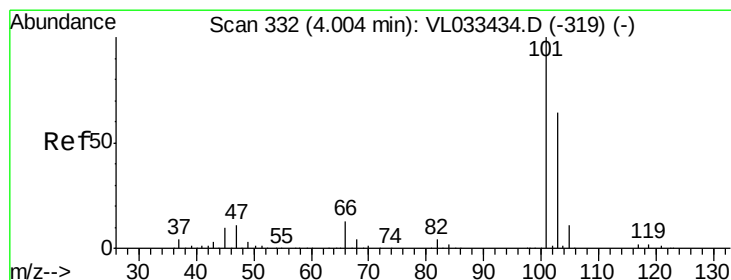
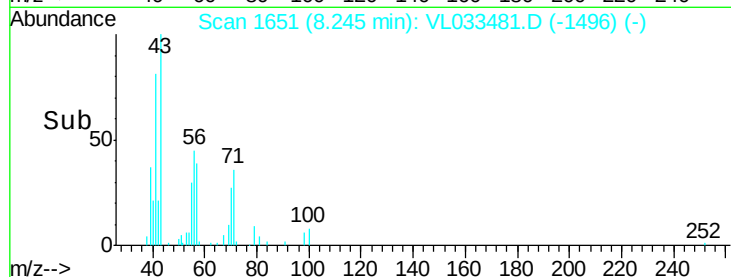
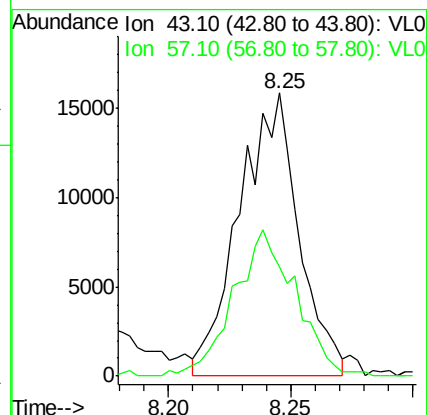
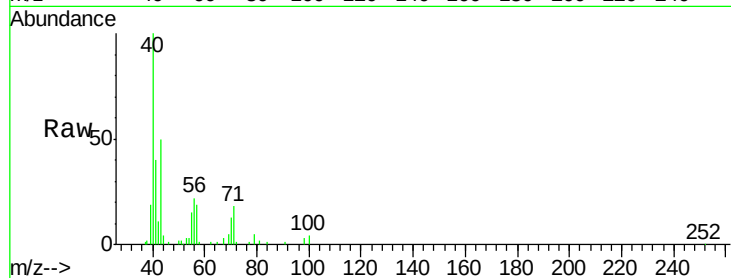




#10  
 Heptane  
 Concen: 0.272 ppbv  
 RT: 8.25 min Scan# 1651  
 Delta R.T. -0.00 min  
 Lab File: VL033481.D  
 Acq: 27 Mar 2019 23:29

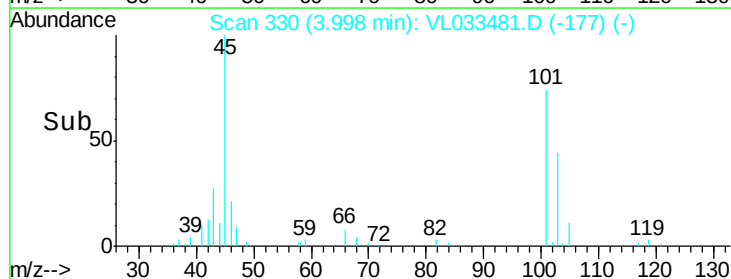
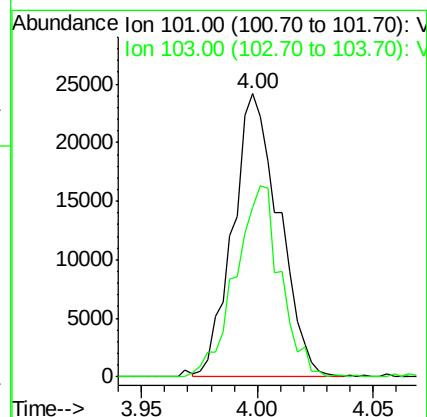
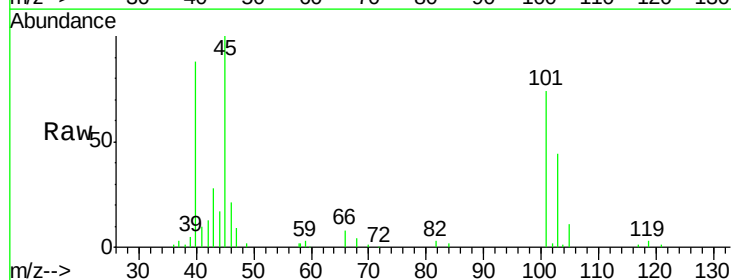
Instrument :  
 MSVOA\_L  
 ClientSampleId :

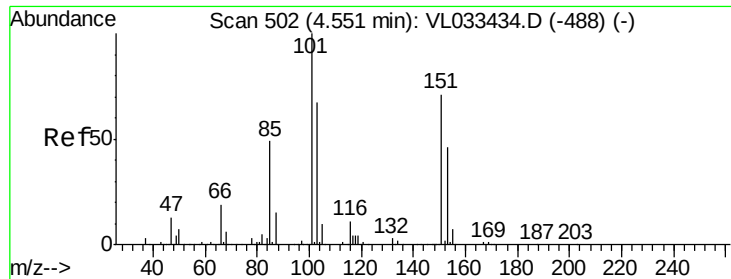
Tot Ion: 43 Resp: 26846  
 Ion Ratio Lower Upper  
 43 100  
 57 53.7 40.6 60.8



#11  
 Trichlorofluoromethane  
 Concen: 0.244 ppbv  
 RT: 4.00 min Scan# 330  
 Delta R.T. -0.01 min  
 Lab File: VL033481.D  
 Acq: 27 Mar 2019 23:29

Tgt Ion:101 Resp: 33416  
 Ion Ratio Lower Upper  
 101 100  
 103 60.1 51.3 76.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.052 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

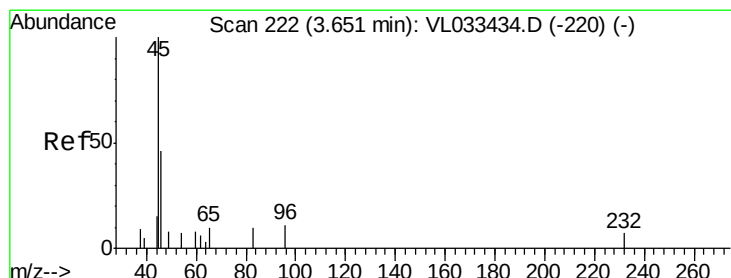
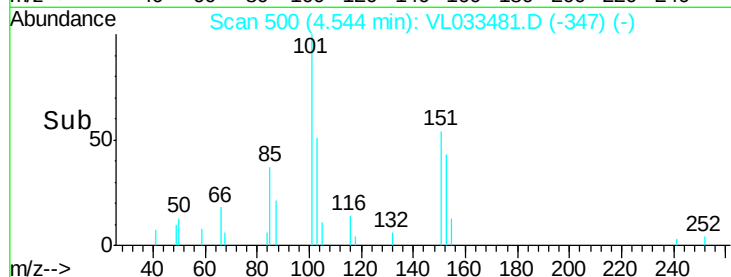
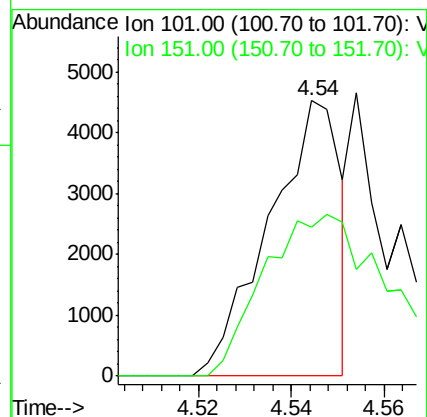
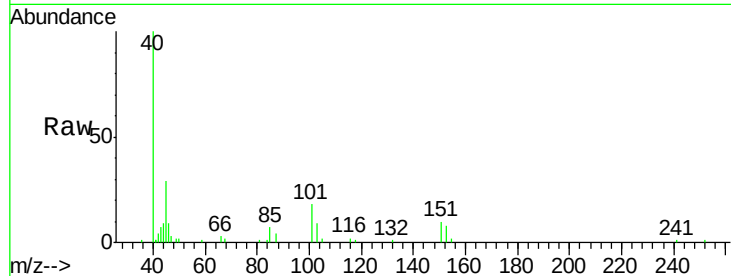
ClientSampleId :

Tot Ion:101 Resp: 4823

Ion Ratio Lower Upper

101 100

151 99.9 57.7 86.5#



#13

Ethanol

Concen: 655.223 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033481.D

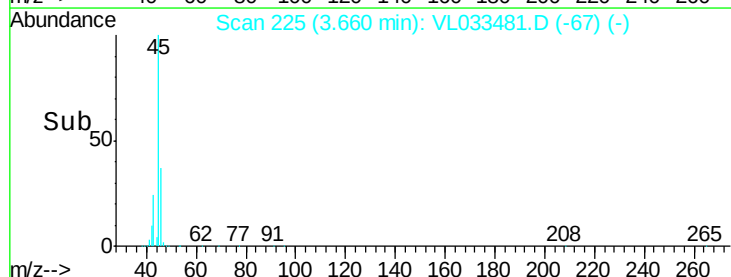
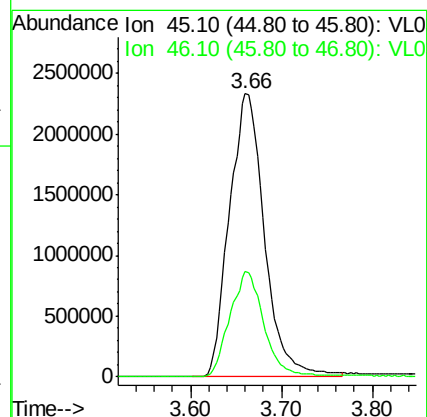
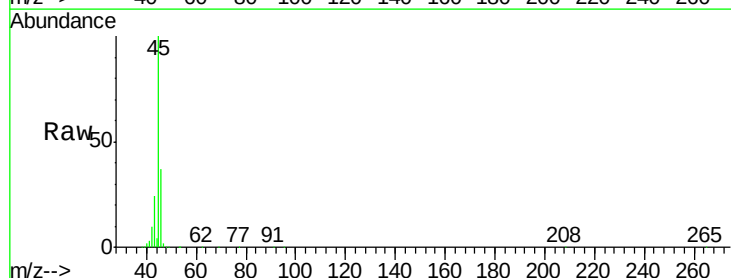
Acq: 27 Mar 2019 23:29

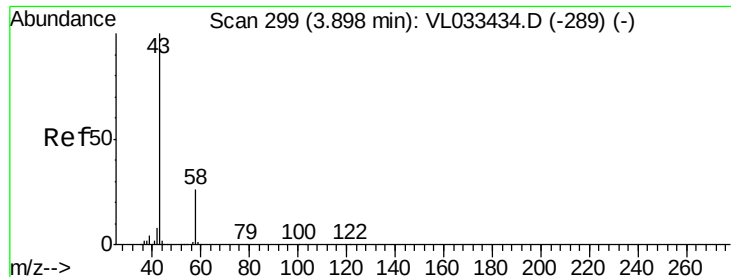
Tgt Ion: 45 Resp: 6252532

Ion Ratio Lower Upper

45 100

46 36.6 25.4 101.8





#15

Acetone

Concen: 7.352 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

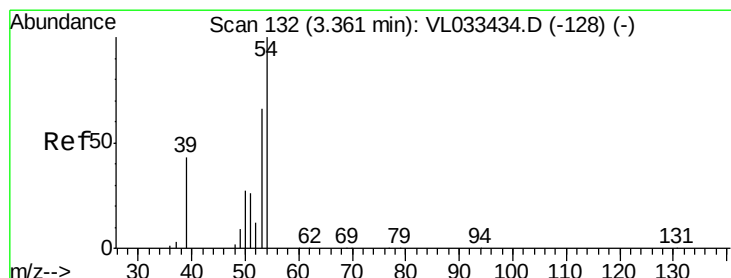
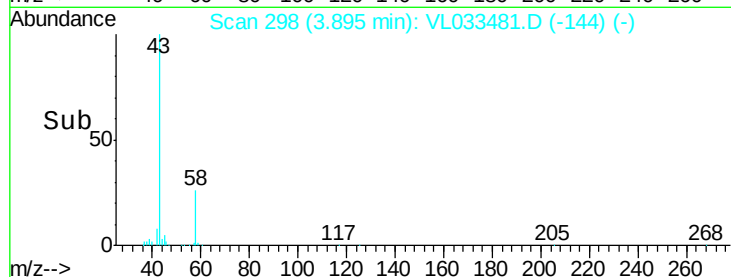
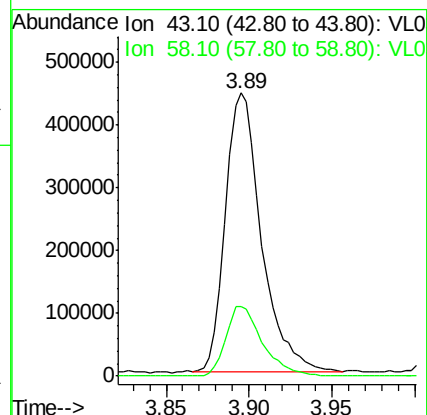
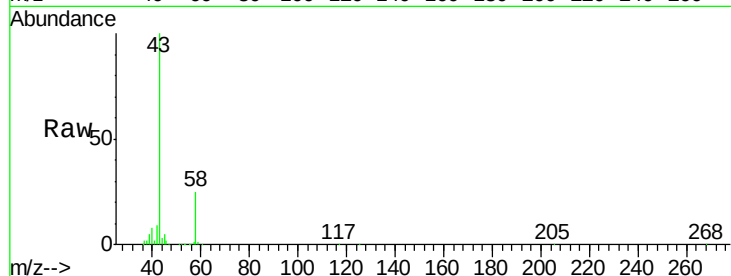
ClientSampleId :

Tot Ion: 43 Resp: 674284

Ion Ratio Lower Upper

43 100

58 25.5 20.5 30.7



#16

1,3-Butadiene

Concen: 0.582 ppbv

RT: 3.39 min Scan# 140

Delta R.T. 0.03 min

Lab File: VL033481.D

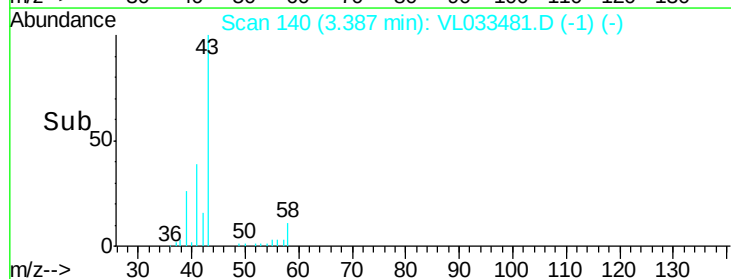
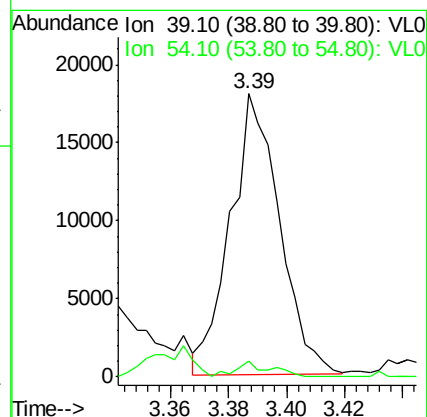
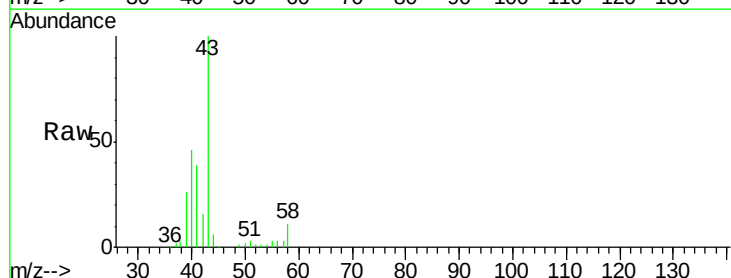
Acq: 27 Mar 2019 23:29

Tgt Ion: 39 Resp: 21166

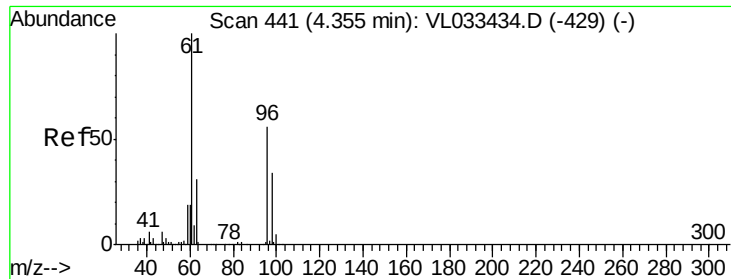
Ion Ratio Lower Upper

39 100

54 13.8 69.4 104.2#





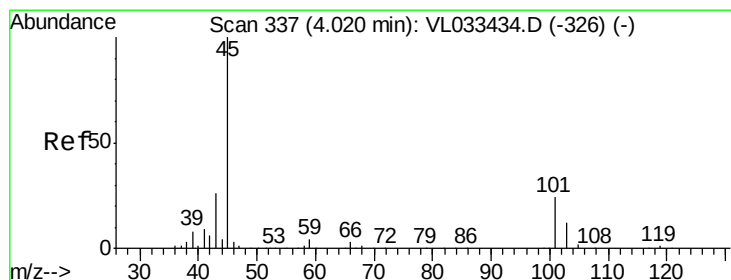
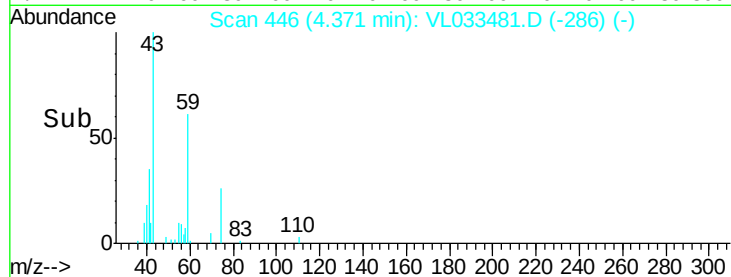
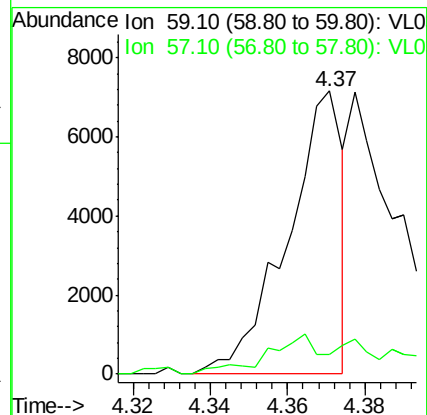
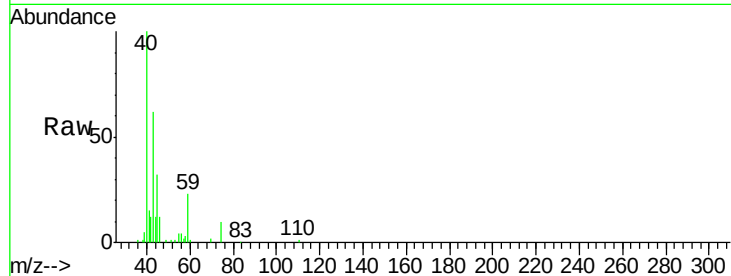


#17

tert-Butyl alcohol  
Concen: 0.421 ppbv  
RT: 4.37 min Scan# 446  
Delta R.T. 0.02 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Instrument :  
MSVOA\_L  
ClientSampleId :

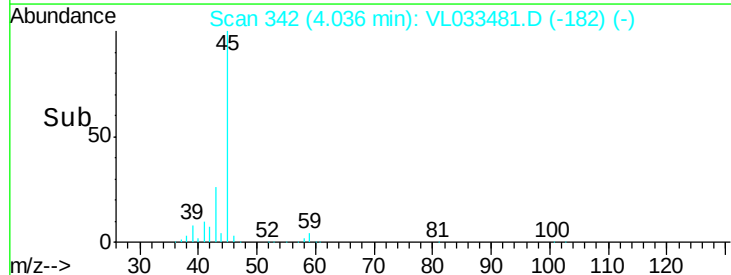
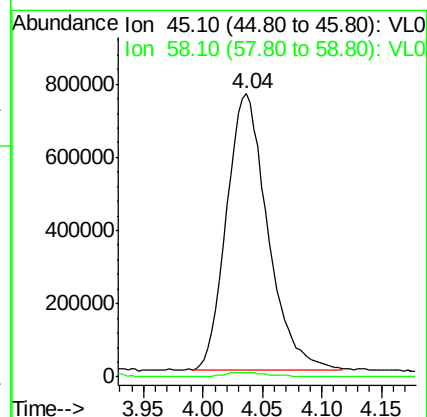
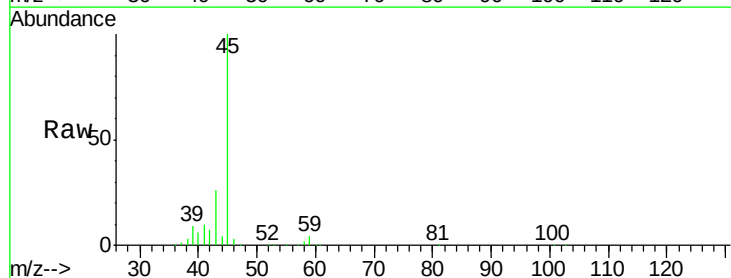
Tot Ion: 59 Resp: 7103  
Ion Ratio Lower Upper  
59 100  
57 28.4 7.8 11.8#

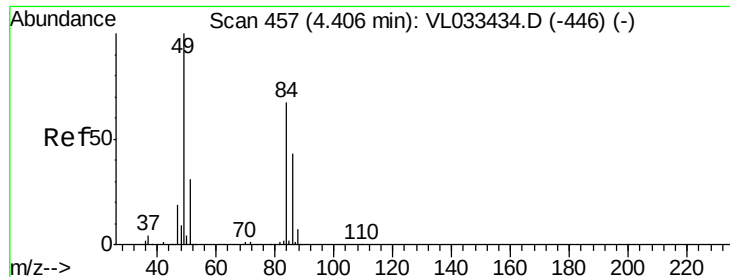


#19

Isopropyl Alcohol  
Concen: 31.053 ppbv  
RT: 4.04 min Scan# 342  
Delta R.T. 0.02 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 45 Resp: 1801323  
Ion Ratio Lower Upper  
45 100  
58 2.0 1.4 2.2

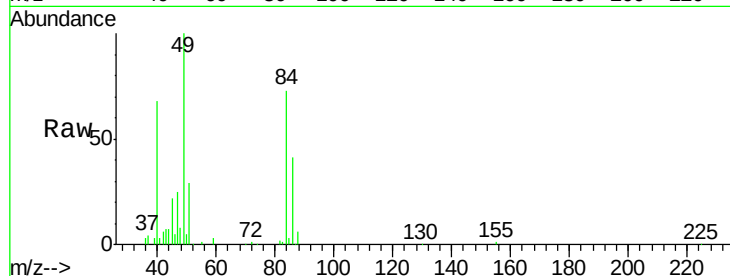




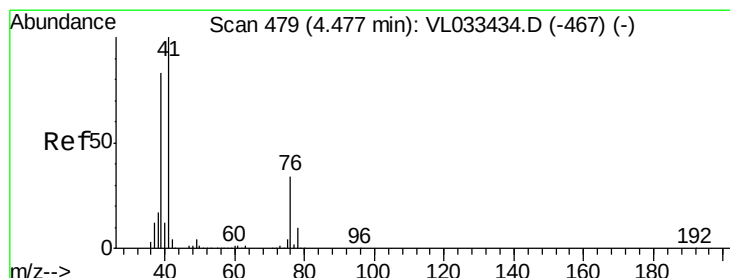
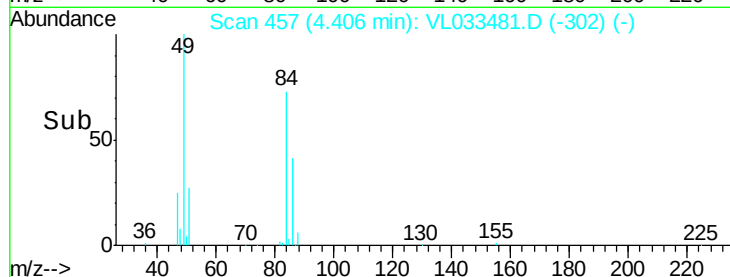
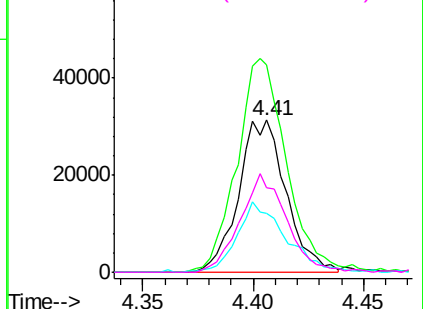
#20  
Methvlene Chloride  
Concen: 1.206 ppbv  
RT: 4.41 min Scan# 457  
Delta R.T. -0.00 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 84 Resp: 46968  
Ion Ratio Lower Upper  
84 100  
49 135.0 120.0 180.0  
51 38.2 36.7 55.1  
86 55.9 51.9 77.9

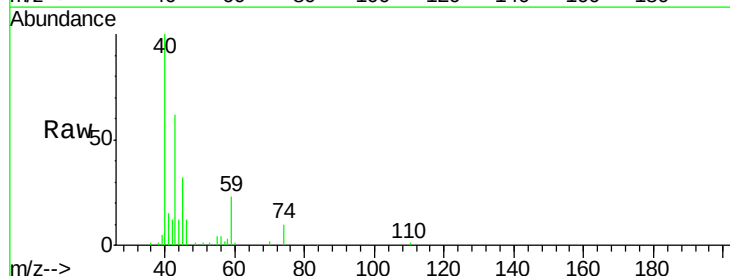


Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0

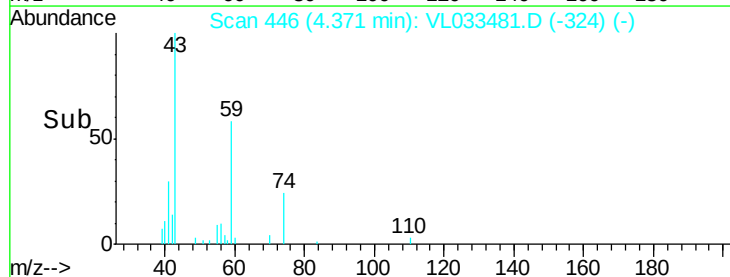
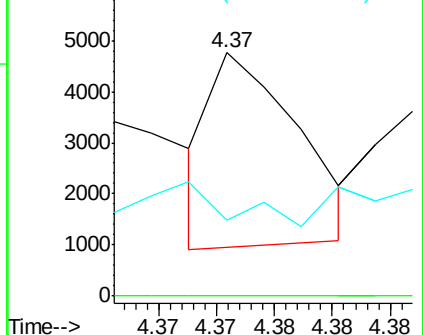


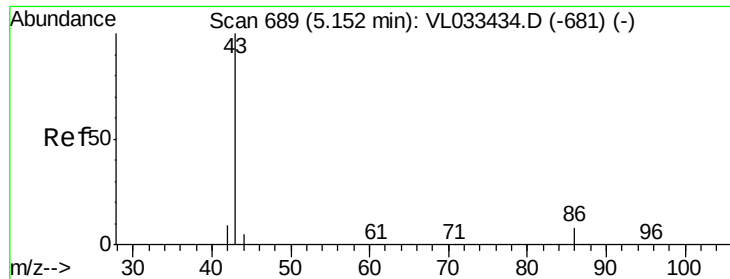
#21  
Allyl Chloride  
Concen: 0.034 ppbv  
RT: 4.37 min Scan# 446  
Delta R.T. -0.11 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 41 Resp: 1982  
Ion Ratio Lower Upper  
41 100  
76 0.0 25.4 38.2#  
39 318.0 65.3 97.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.127 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 43 Resp: 16515

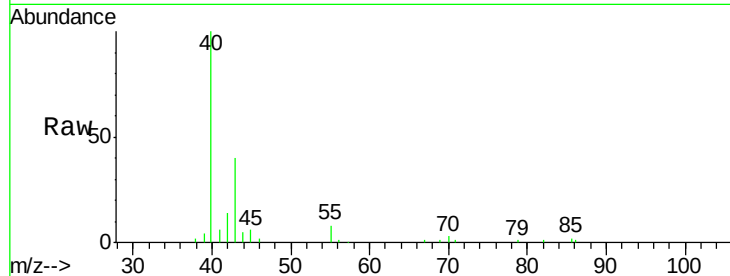
Ion Ratio Lower Upper

43 100

86 3.3 5.6 8.4#

42 34.8 8.0 12.0#

44 5.1 3.9 5.9

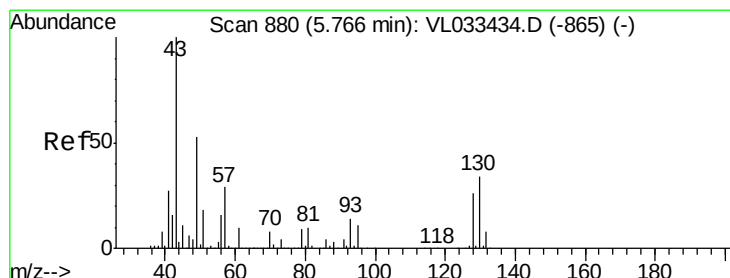
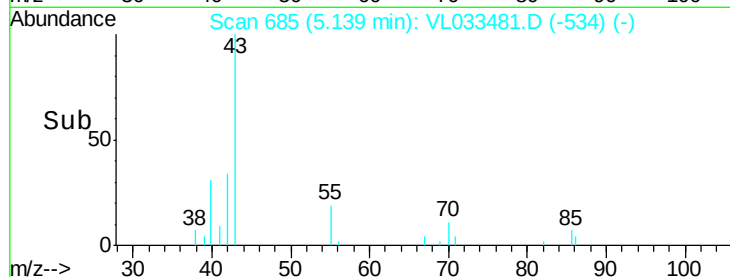
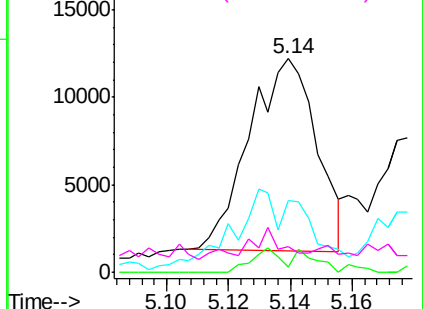


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.507 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Tgt Ion: 43 Resp: 86267

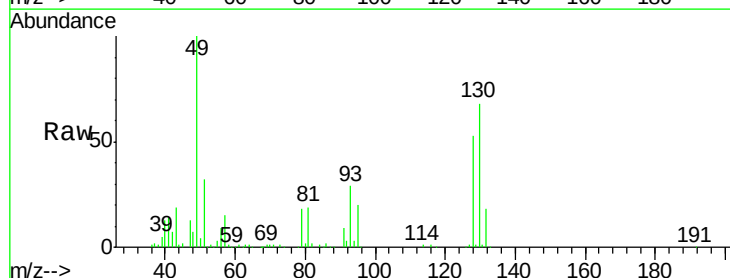
Ion Ratio Lower Upper

43 100

45 10.3 7.8 11.6

61 6.6 7.3 10.9#

70 5.3 5.6 8.4#

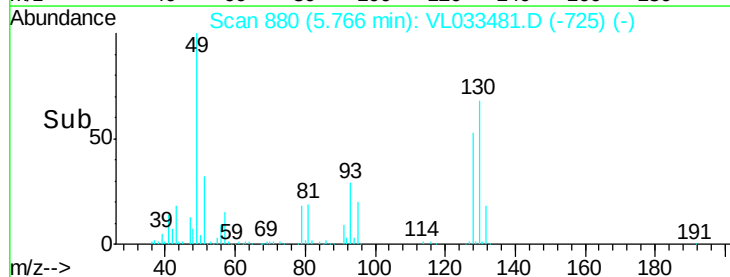
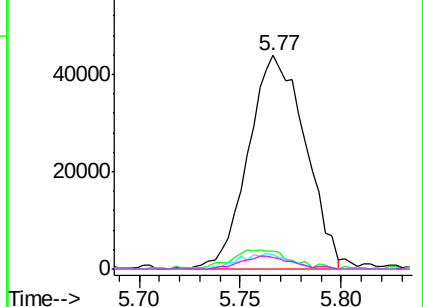


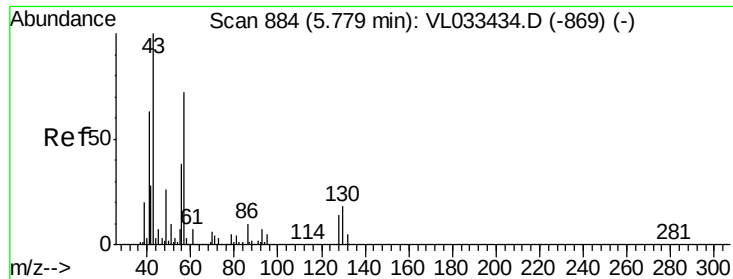
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

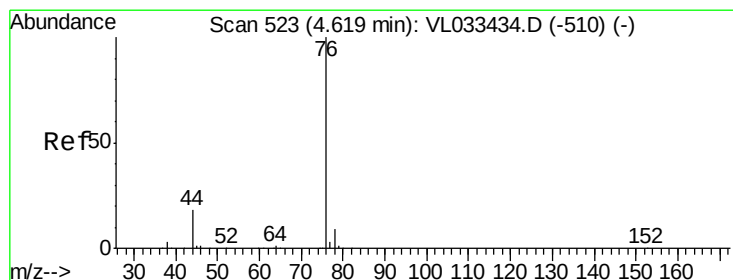
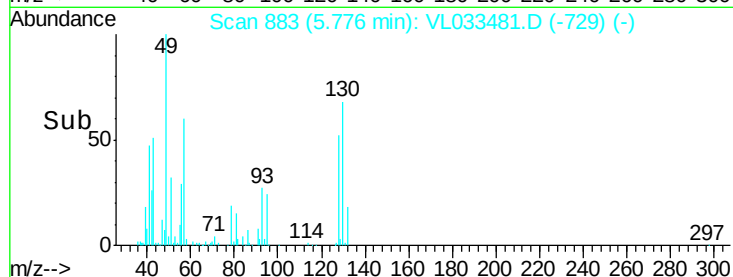
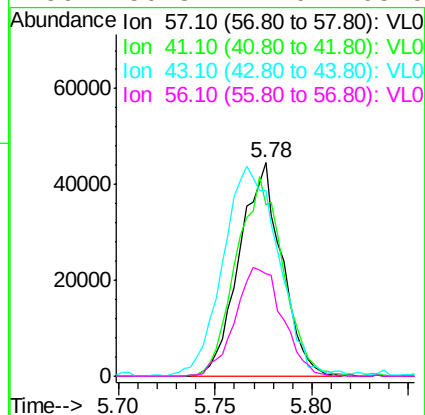
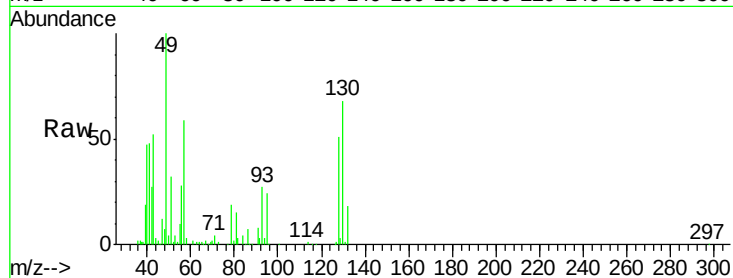




#26  
Hexane  
Concen: 0.903 ppbv  
RT: 5.78 min Scan# 883  
Delta R.T. -0.00 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

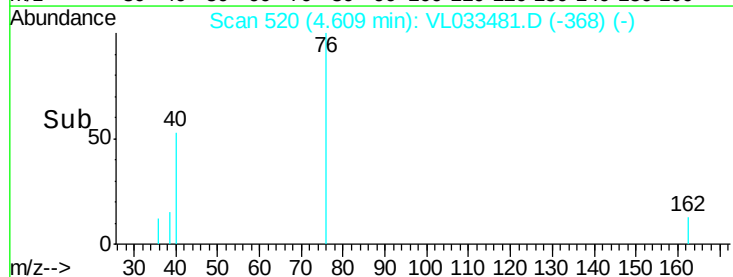
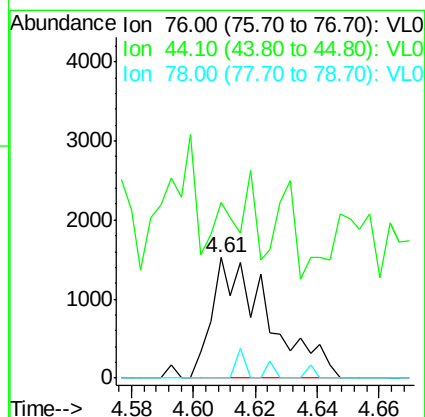
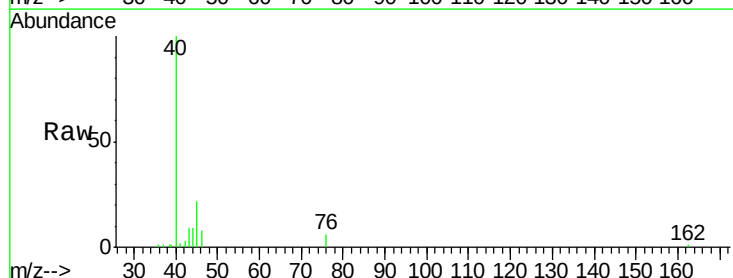
Instrument :  
MSVOA\_L  
ClientSampleId :

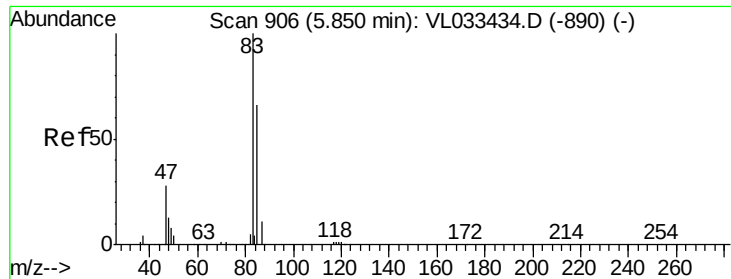
Tot Ion: 57 Resp: 68329  
Ion Ratio Lower Upper  
57 100  
41 102.6 70.7 106.1  
43 129.7 182.6 274.0#  
56 56.8 42.0 63.0



#27  
Carbon Disulfide  
Concen: 0.022 ppbv  
RT: 4.61 min Scan# 520  
Delta R.T. -0.01 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 76 Resp: 1938  
Ion Ratio Lower Upper  
76 100  
44 92.4 14.8 22.2#  
78 0.0 7.6 11.4#

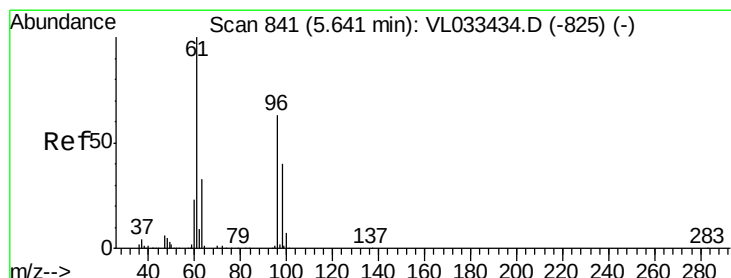
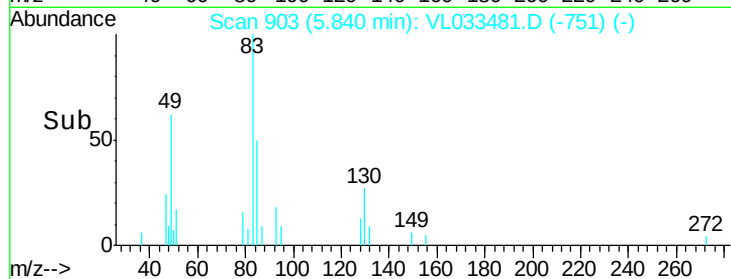
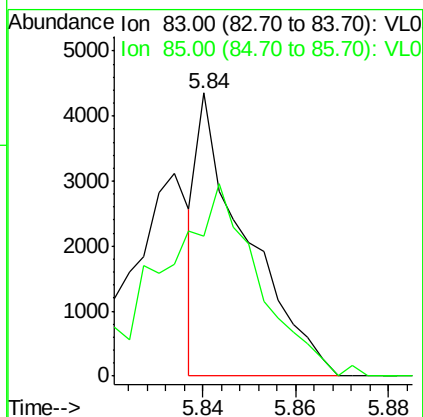
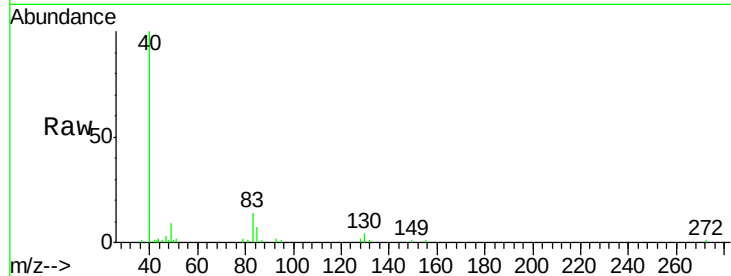




#29  
Chloroform  
Concen: 0.024 ppbv  
RT: 5.84 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

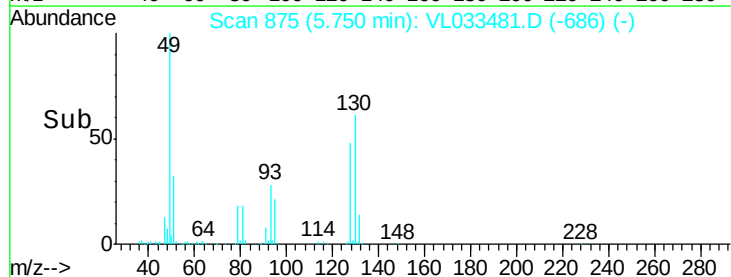
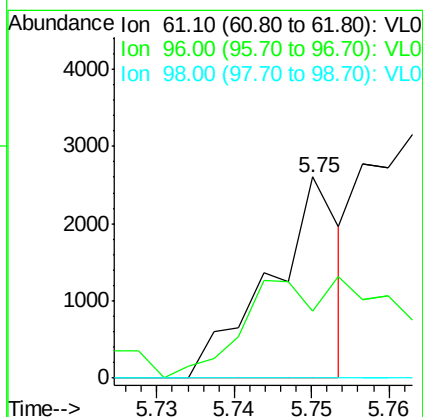
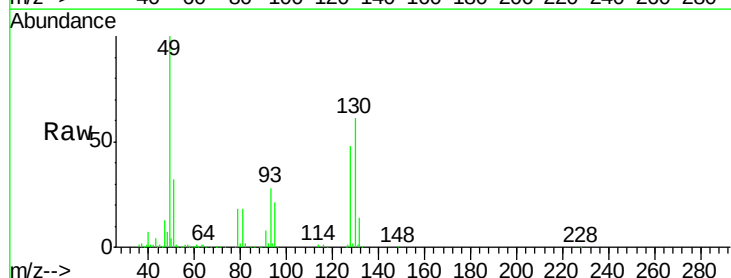
Instrument :  
MSVOA\_L  
ClientSampled :

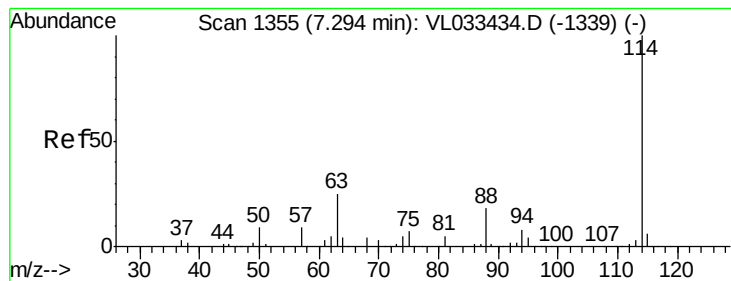
Tot Ion: 83 Resp: 3164  
Ion Ratio Lower Upper  
83 100  
85 49.7 52.6 79.0#



#31  
cis-1,2-Dichloroethene  
Concen: 0.022 ppbv  
RT: 5.75 min Scan# 875  
Delta R.T. 0.11 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 61 Resp: 1626  
Ion Ratio Lower Upper  
61 100  
96 27.6 50.6 76.0#  
98 0.0 32.2 48.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

ClientSampleId :

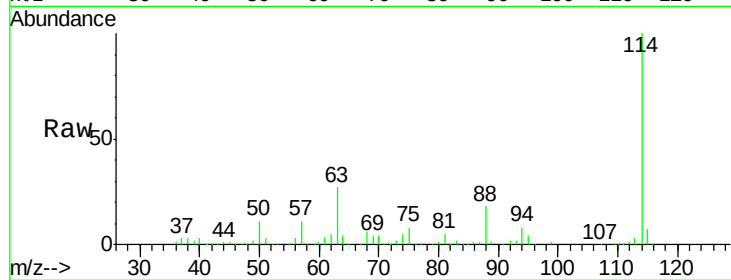
Tot Ion:114 Resp: 1774100

Ion Ratio Lower Upper

114 100

63 26.8 21.5 32.3

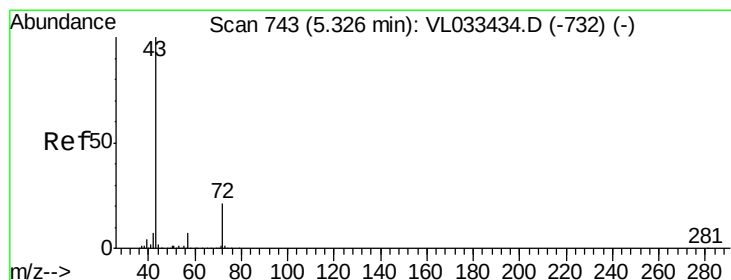
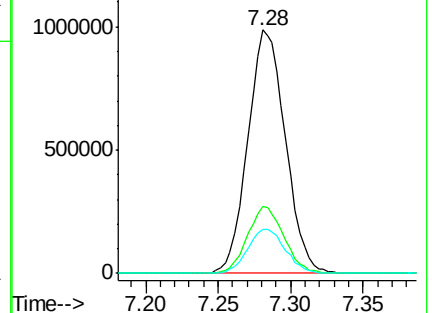
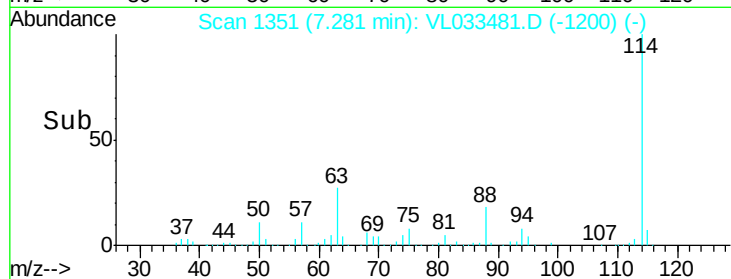
88 18.3 14.5 21.7



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



#34

2-Butanone

Concen: 0.262 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033481.D

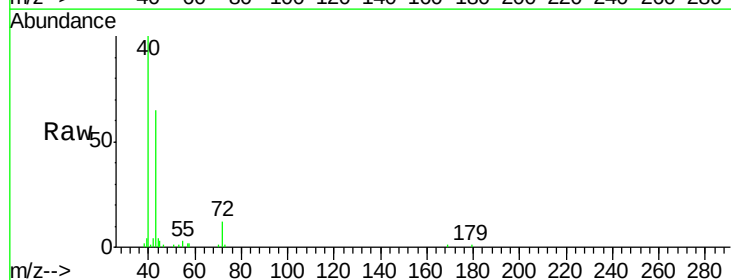
Acq: 27 Mar 2019 23:29

Tgt Ion: 43 Resp: 27896

Ion Ratio Lower Upper

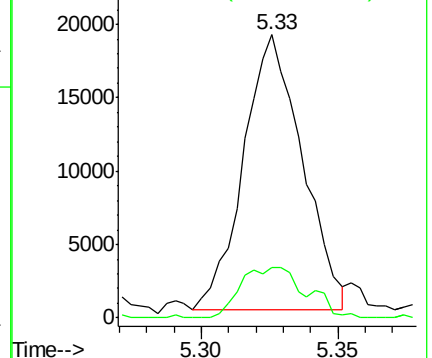
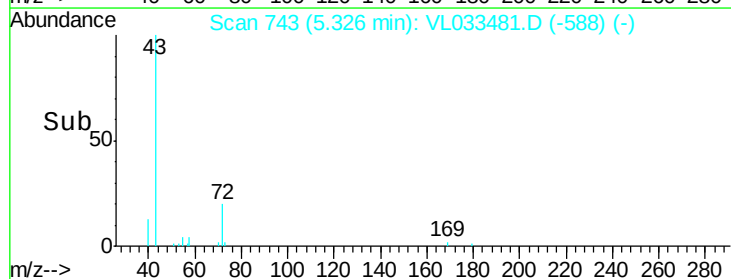
43 100

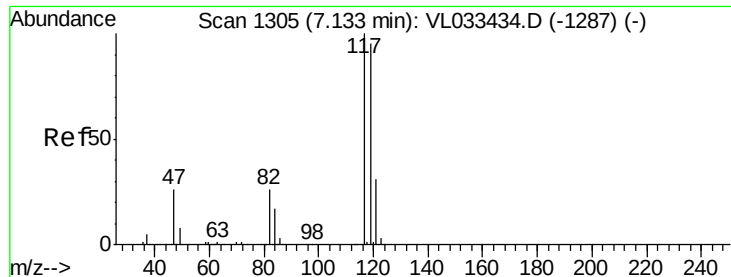
72 20.7 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.026 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

ClientSampleId :

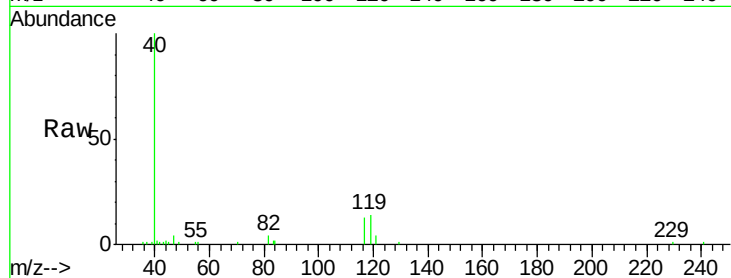
Tot Ion:117 Resp: 3228

Ion Ratio Lower Upper

117 100

119 73.3 75.8 113.8#

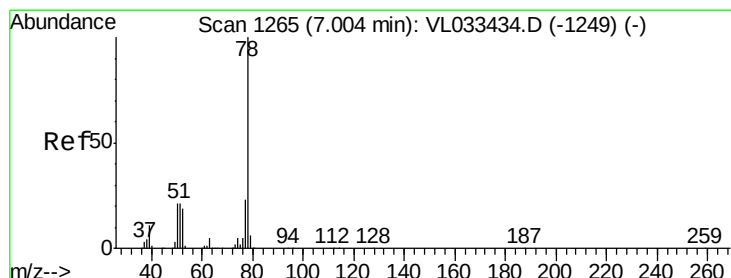
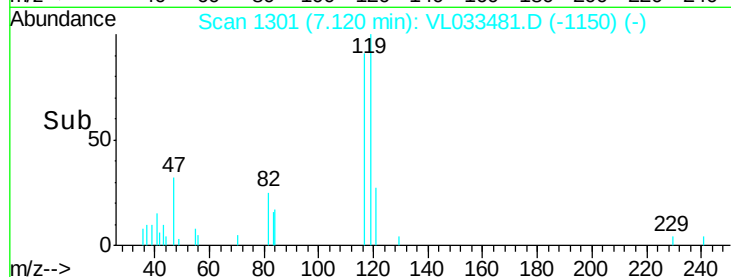
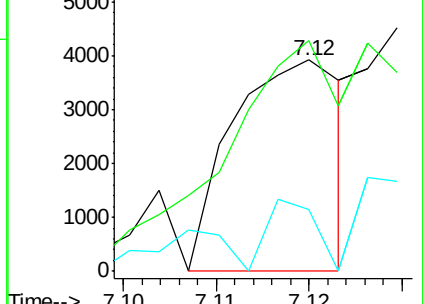
121 29.2 24.7 37.1



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: 0.275 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

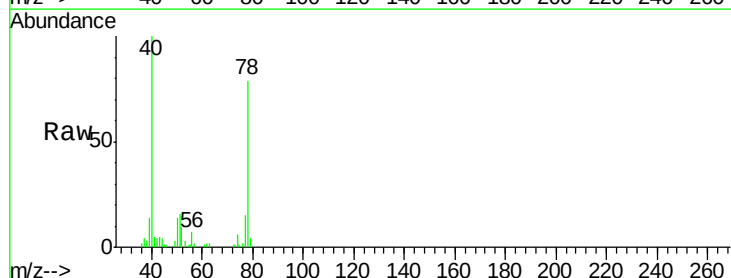
Tgt Ion: 78 Resp: 40953

Ion Ratio Lower Upper

78 100

77 18.6 18.1 27.1

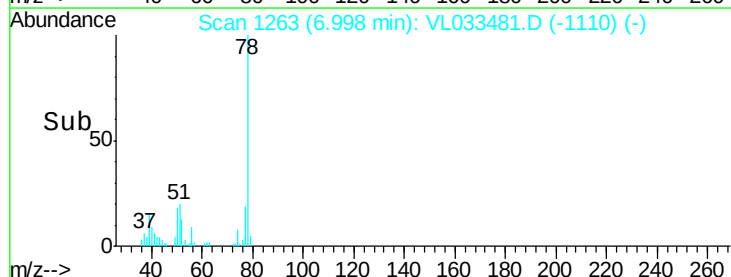
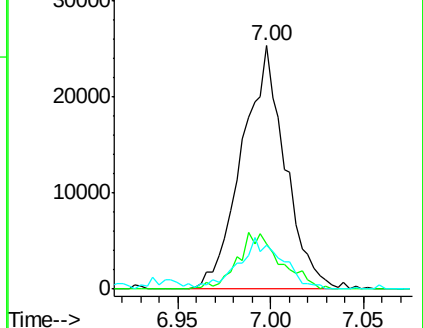
50 18.1 16.7 25.1

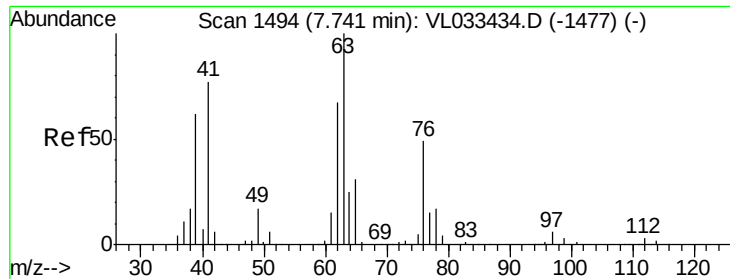


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

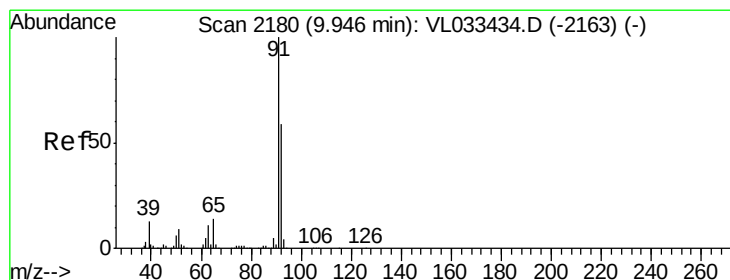
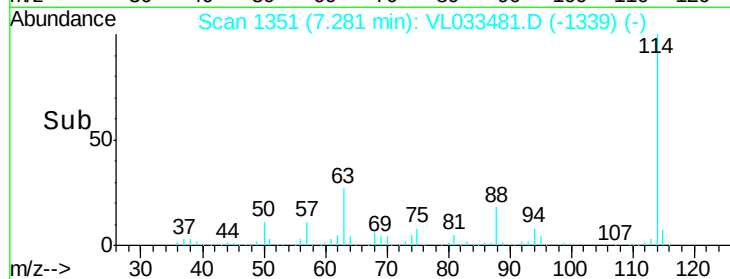
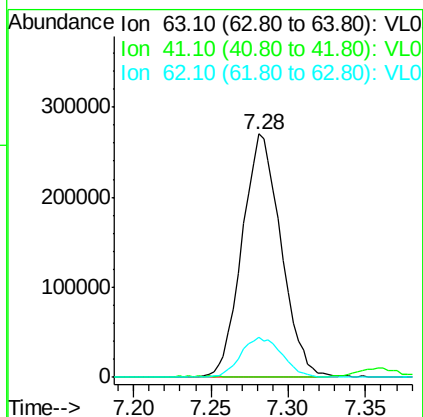
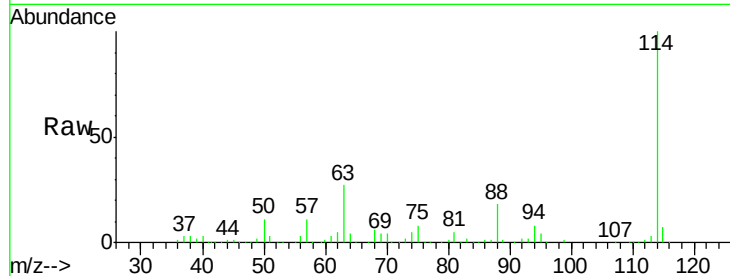




#39  
 1,2-Dichloropropane  
 Concen: 8.118 ppbv  
 RT: 7.28 min Scan# 1351  
 Delta R.T. -0.46 min  
 Lab File: VL033481.D  
 Acq: 27 Mar 2019 23:29

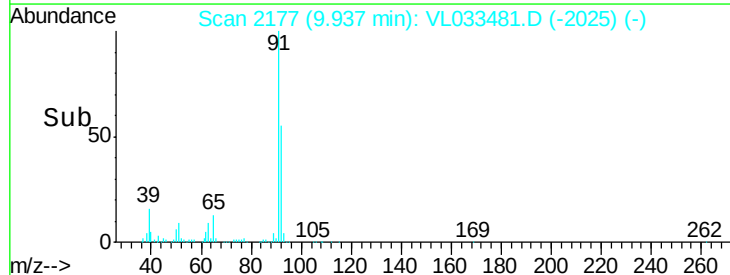
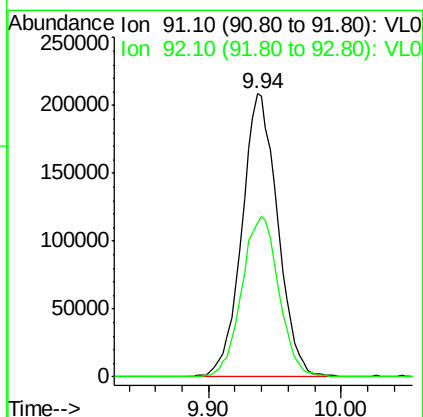
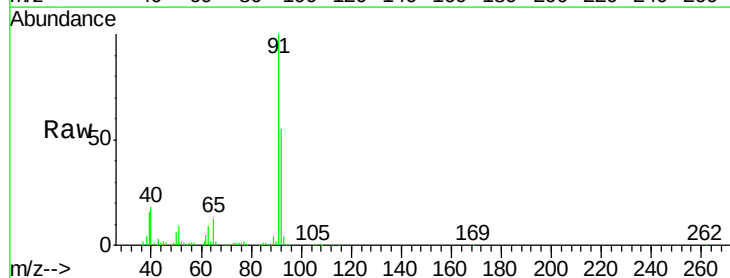
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 63 Resp: 473374  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 61.2 91.8#  
 62 16.7 54.0 81.0#

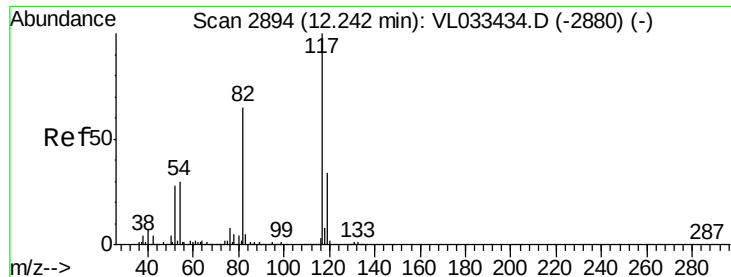


#53  
 Toluene  
 Concen: 2.268 ppbv  
 RT: 9.94 min Scan# 2177  
 Delta R.T. -0.01 min  
 Lab File: VL033481.D  
 Acq: 27 Mar 2019 23:29

Tgt Ion: 91 Resp: 392366  
 Ion Ratio Lower Upper  
 91 100  
 92 58.7 47.4 71.0



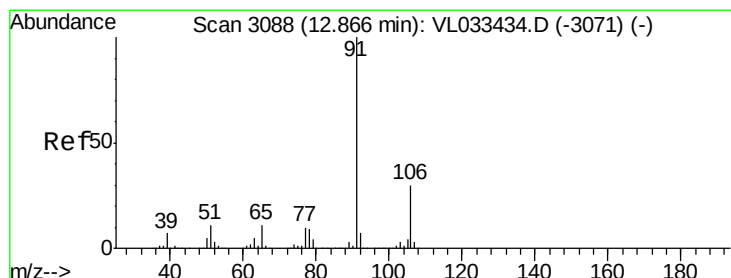
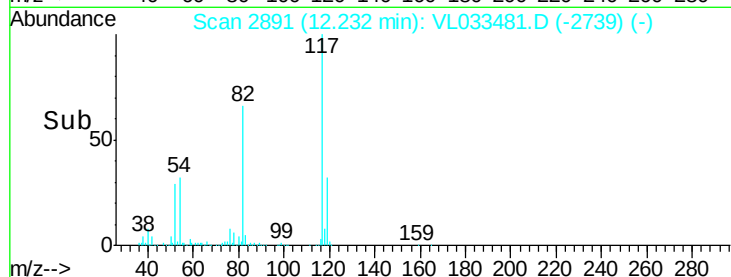
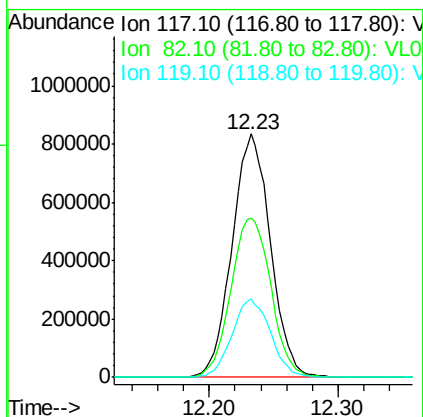
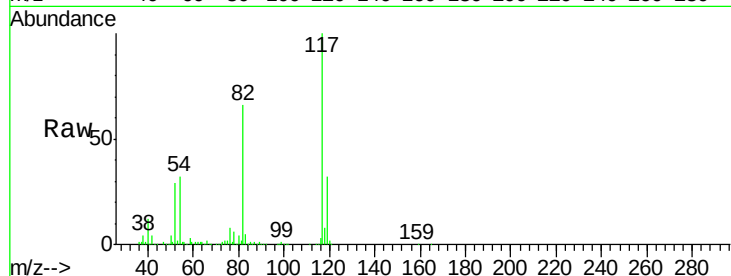




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.23 min Scan# 2891  
Delta R.T. -0.01 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

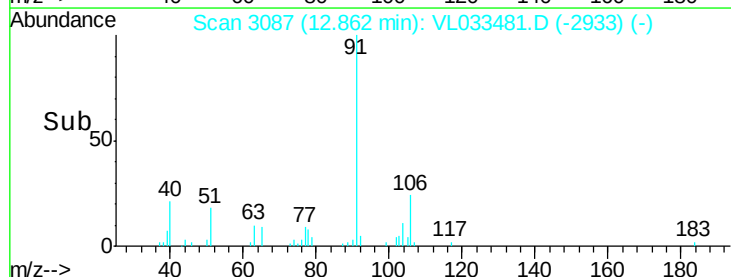
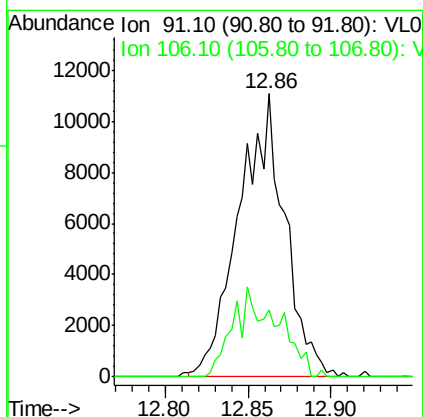
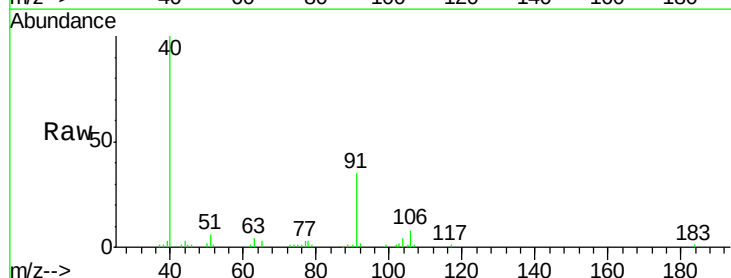
Instrument :  
MSVOA\_L  
ClientSampleId :

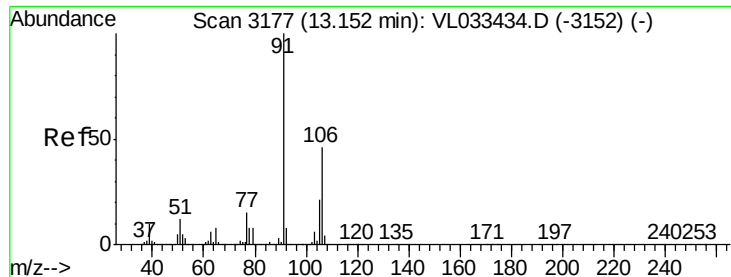
Tot Ion:117 Resp: 1727137  
Ion Ratio Lower Upper  
117 100  
82 68.6 51.5 77.3  
119 32.5 25.5 38.3



#58  
Ethyl Benzene  
Concen: 0.093 ppbv  
RT: 12.86 min Scan# 3087  
Delta R.T. -0.00 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 91 Resp: 21356  
Ion Ratio Lower Upper  
91 100  
106 23.8 23.8 35.6

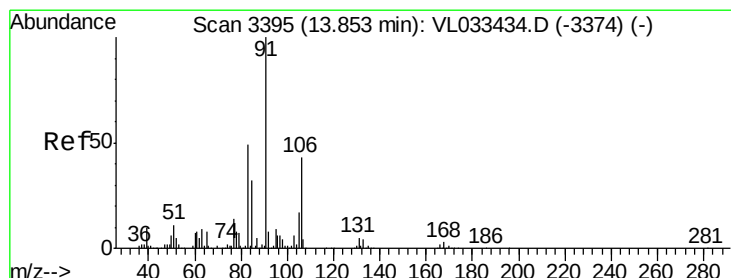
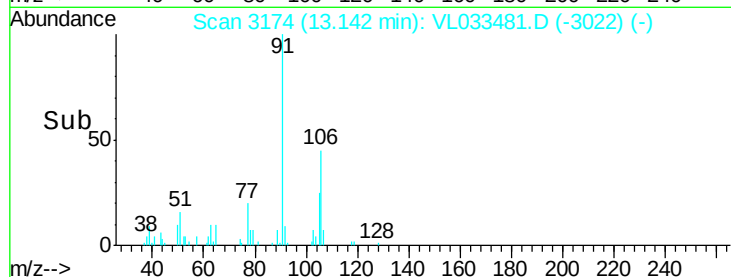
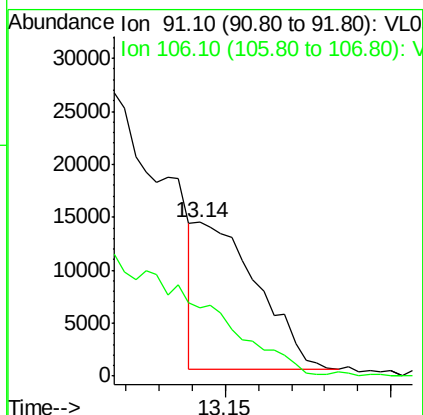
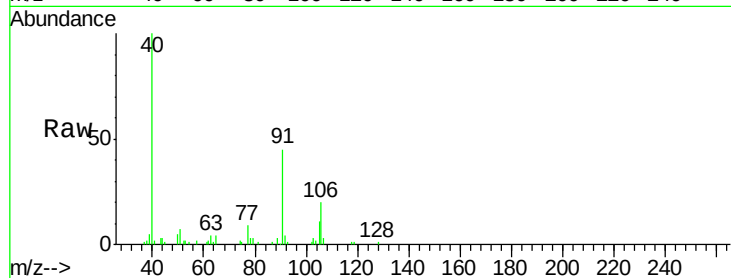




#59  
m/p-Xylene  
Concen: 0.087 ppbv  
RT: 13.14 min Scan# 3174  
Delta R.T. -0.01 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

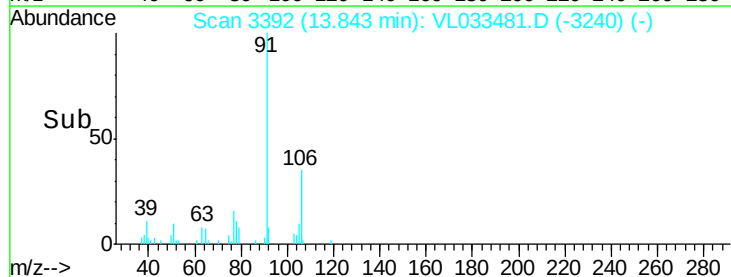
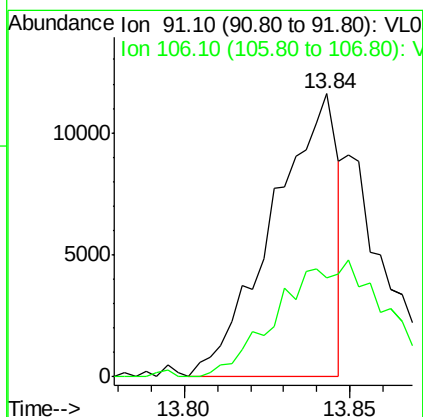
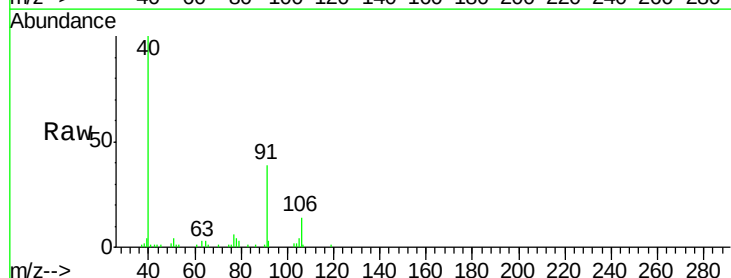
Instrument :  
MSVOA\_L  
ClientSampled :

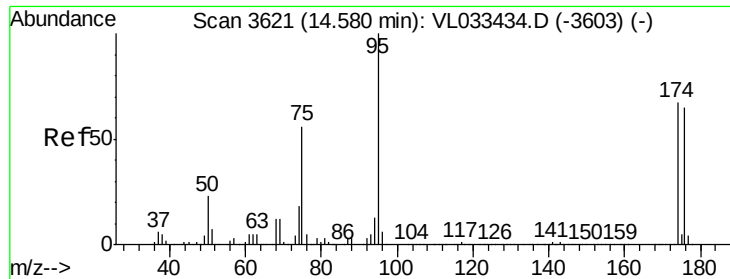
Tot Ion: 91 Resp: 17873  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0



#60  
o-Xylene  
Concen: 0.079 ppbv  
RT: 13.84 min Scan# 3392  
Delta R.T. -0.01 min  
Lab File: VL033481.D  
Acq: 27 Mar 2019 23:29

Tgt Ion: 91 Resp: 15794  
Ion Ratio Lower Upper  
91 100  
106 0.0 21.4 64.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.228 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Instrument :

MSVOA\_L

ClientSampleId :

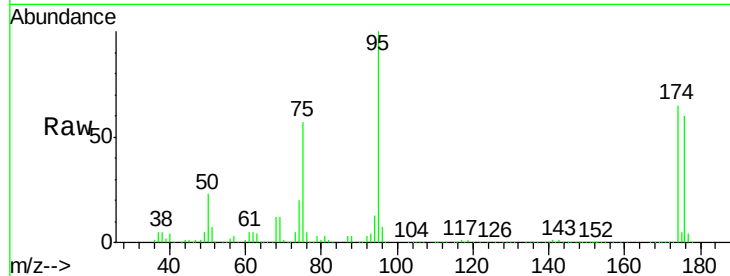
Tot Ion: 95 Resp: 1384947

Ion Ratio Lower Upper

95 100

174 65.8 52.9 79.3

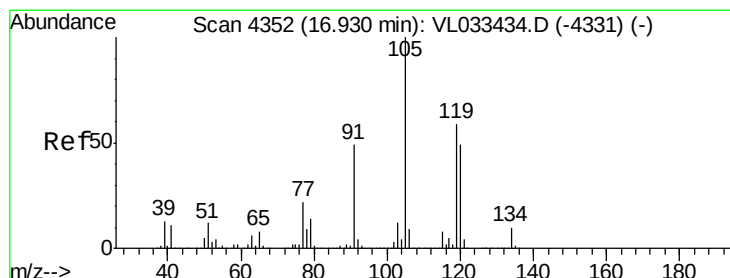
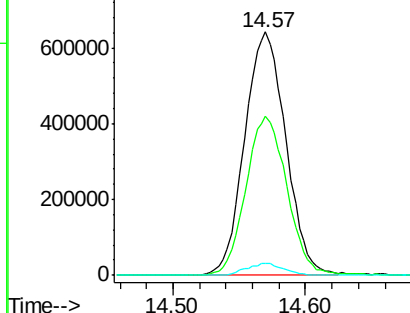
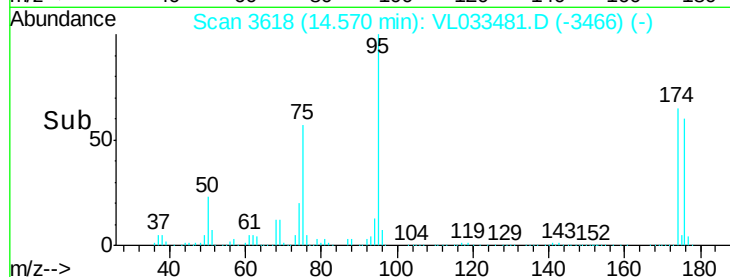
175 4.7 3.8 5.6



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



#74

1,2,4-Trimethylbenzene

Concen: 0.073 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033481.D

Acq: 27 Mar 2019 23:29

Tgt Ion: 105 Resp: 16730

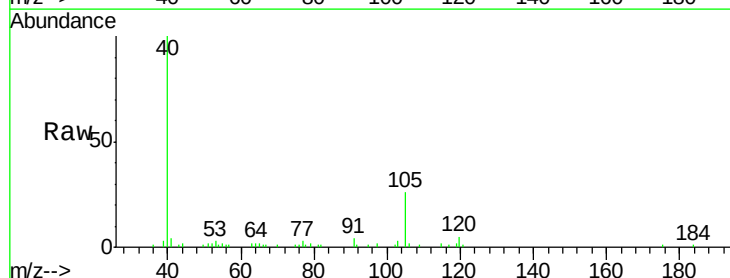
Ion Ratio Lower Upper

105 100

120 4.7 39.0 58.6#

91 18.0 40.0 60.0#

77 17.9 17.5 26.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

