

Data File : VL032418.D  
Acq On : 21 Aug 2018 10:55  
Operator : SY/AP  
Sample : J4576-01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

Quant Time: Aug 21 11:33:31 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081518AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 15 14:58:02 2018  
QLast Update : Wed Aug 15 14:58:02 2018  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.81  | 49   | 1763262  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.34  | 114  | 3430709  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.30 | 117  | 3347986  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds  
68) 1-Bromo-4-Fluorobenzene 14.64 95 2570401 10.06 ppbv 0.00  
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.60%

| Target Compounds               |       |     |         |         | Qvalue |     |
|--------------------------------|-------|-----|---------|---------|--------|-----|
| 2) Dichlorodifluoromethane     | 3.11  | 85  | 56410   | 0.052   | ppbv   | 95  |
| 3) Chlorodifluoromethane       | 3.02  | 51  | 265135  | 1.623   | ppbv # | 72  |
| 4) Chloromethane               | 3.21  | 50  | 58982   | 0.607   | ppbv # | 87  |
| 7) Chloroethane                | 3.38  | 64  | 1506    | 0.046   | ppbv # | 44  |
| 9) Propene                     | 3.27  | 41  | 479976  | 6.866   | ppbv   | 96  |
| 10) Heptane                    | 8.30  | 43  | 15113   | 0.072   | ppbv # | 33  |
| 11) Trichlorofluoromethane     | 4.05  | 101 | 51844   | 0.263   | ppbv   | 94  |
| 12) 1,1,2-Trichlorotrifluoroet | 4.60  | 101 | 6212    | 0.047   | ppbv # | 47  |
| 13) Ethanol                    | 3.69  | 45  | 3829418 | 213.288 | ppbv   | 98  |
| 15) Acetone                    | 3.94  | 43  | 3603524 | 21.510  | ppbv   | 99  |
| 16) 1,3-Butadiene              | 3.38  | 39  | 15285   | 0.221   | ppbv # | 67  |
| 17) tert-Butyl alcohol         | 4.42  | 59  | 61279   | 2.180   | ppbv # | 74  |
| 19) Isopropyl Alcohol          | 4.08  | 45  | 393837  | 3.491   | ppbv # | 1   |
| 20) Methylene Chloride         | 4.46  | 84  | 119554  | 1.890   | ppbv   | 94  |
| 23) Vinyl Acetate              | 5.19  | 43  | 122054  | 0.422   | ppbv # | 53  |
| 25) Ethyl Acetate              | 5.82  | 43  | 342971  | 0.955   | ppbv # | 95  |
| 26) Hexane                     | 5.83  | 57  | 89931   | 0.562   | ppbv # | 30  |
| 27) Carbon Disulfide           | 4.66  | 76  | 9495    | 0.064   | ppbv # | 1   |
| 29) Chloroform                 | 5.90  | 83  | 116514  | 0.497   | ppbv   | 97  |
| 31) cis-1,2-Dichloroethene     | 5.82  | 61  | 33947   | 0.217   | ppbv # | 37  |
| 34) 2-Butanone                 | 5.38  | 43  | 338596  | 1.450   | ppbv   | 96  |
| 36) Benzene                    | 7.06  | 78  | 85159   | 0.293   | ppbv # | 93  |
| 37) 1,2-Dichloroethane         | 6.46  | 62  | 5368    | 0.030   | ppbv # | 77  |
| 39) 1,2-Dichloropropane        | 7.34  | 63  | 930894  | 7.662   | ppbv # | 25  |
| 41) Tetrahydrofuran            | 6.20  | 42  | 198114  | 1.580   | ppbv   | 99  |
| 43) Methyl Methacrylate        | 8.19  | 69  | 11412   | 0.098   | ppbv # | 67  |
| 44) 2,2,4-Trimethylpentane     | 8.05  | 57  | 29975   | 0.057   | ppbv # | 1   |
| 52) Tetrachloroethene          | 11.43 | 164 | 25409   | 0.296   | ppbv   | 85  |
| 53) Toluene                    | 10.00 | 91  | 329271  | 1.033   | ppbv   | 99  |
| 58) Ethyl Benzene              | 12.92 | 91  | 28852   | 0.072   | ppbv   | 97  |
| 59) m/p-Xylene                 | 13.18 | 91  | 134989  | 0.395   | ppbv   | 100 |
| 60) o-Xylene                   | 13.90 | 91  | 62958   | 0.187   | ppbv   | 99  |
| 61) Styrene                    | 13.75 | 104 | 158879  | 0.676   | ppbv   | 98  |
| 69) p-Isopropyltoluene         | 17.87 | 119 | 39488   | 0.085   | ppbv # | 86  |
| 70) n-Butylbenzene             | 18.78 | 91  | 20031   | 0.039   | ppbv # | 86  |
| 73) 1,3,5-Trimethylbenzene     | 16.22 | 105 | 119135  | 0.330   | ppbv   | 98  |
| 74) 1,2,4-Trimethylbenzene     | 16.98 | 105 | 160771  | 0.419   | ppbv # | 69  |
| 79) Naphthalene                | 22.48 | 128 | 27559   | 0.402   | ppbv   | 97  |
| 80) Naphthalene,2-methyl-      | 25.16 | 142 | 5336    | 0.070   | ppbv # | 80  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL082018\  
Quantitation Report (Not Reviewed)

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Operator : SY/AP  
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Instrument :  
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IA1

Quant Time: Aug 21 11:33:31 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL081518AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 15 14:58:02 2018  
QLast Update : Wed Aug 15 14:58:02 2018  
Response via : Initial Calibration

| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data File : VL032418.D

Acq On : 21 Aug 2018 10:55

Operator : SY/AP

Sample : J4576-01

Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
IA1

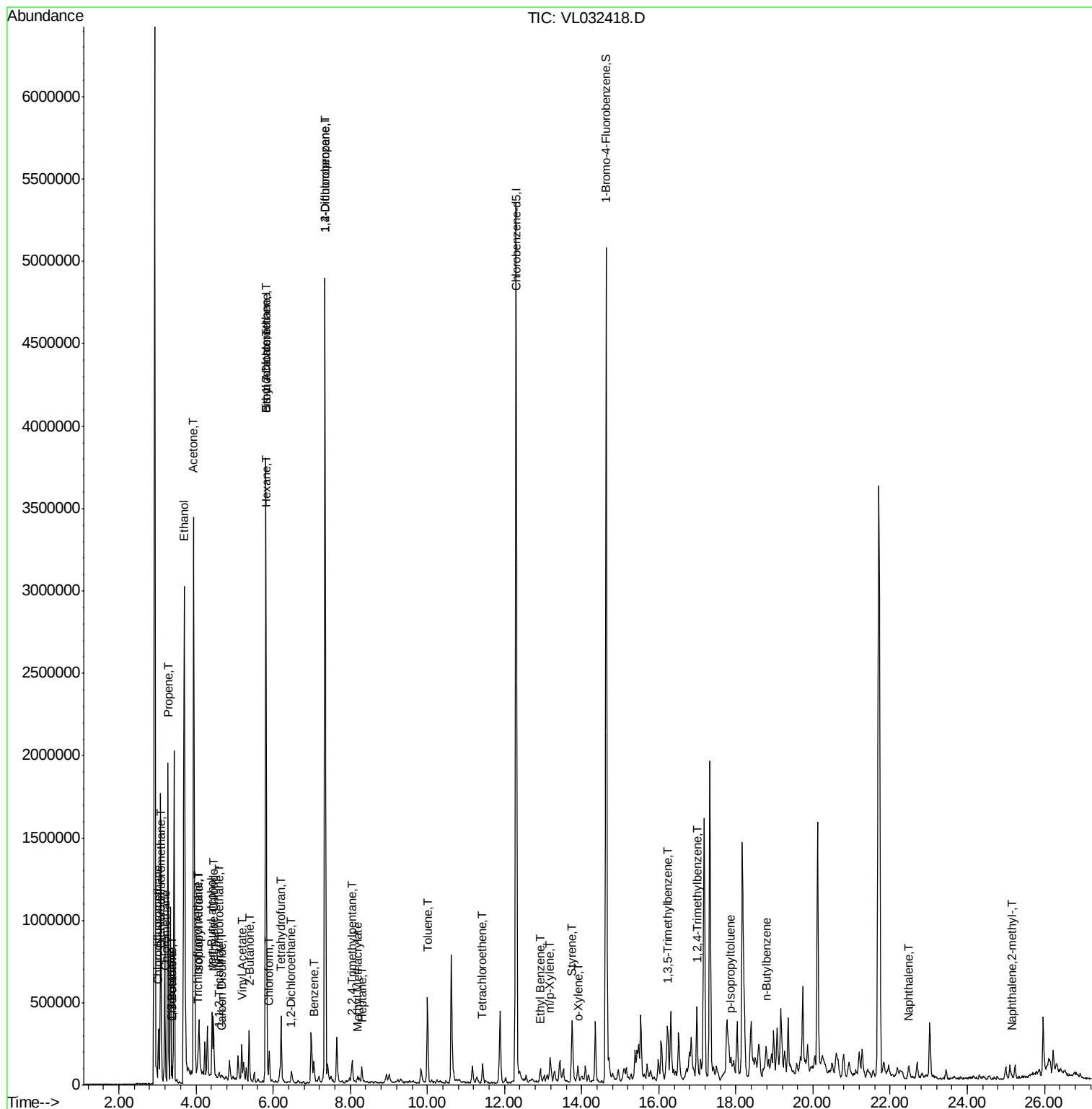
Quant Time: Aug 21 11:33:31 2018

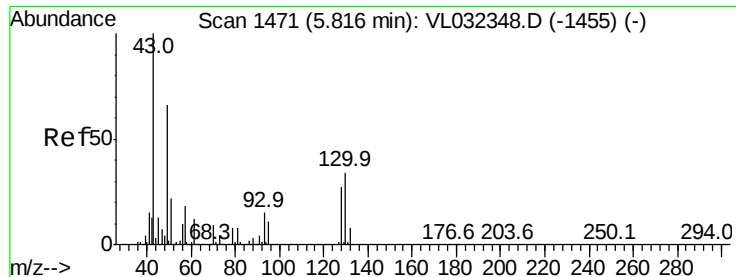
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Aug 15 14:58:02 2018

QLast Update : Wed Aug 15 14:58:02 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampled :

IA1

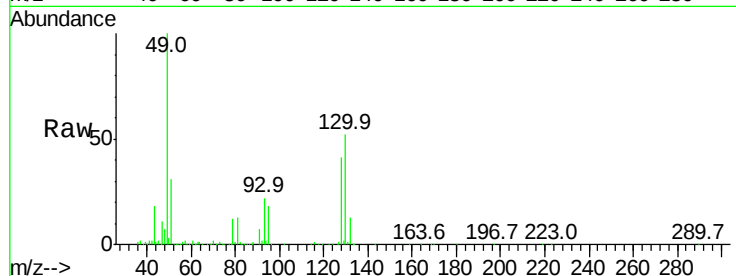
Tgt Ion: 49 Resp: 1763262

Ion Ratio Lower Upper

49 100

128 41.7 20.5 61.6

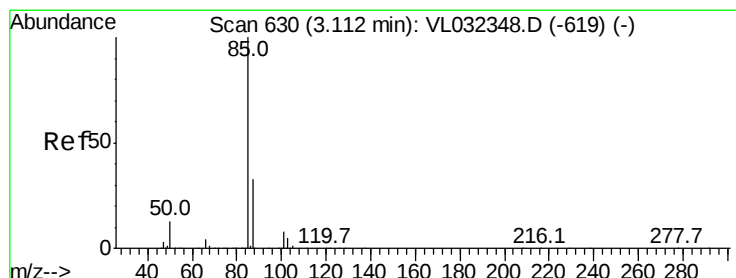
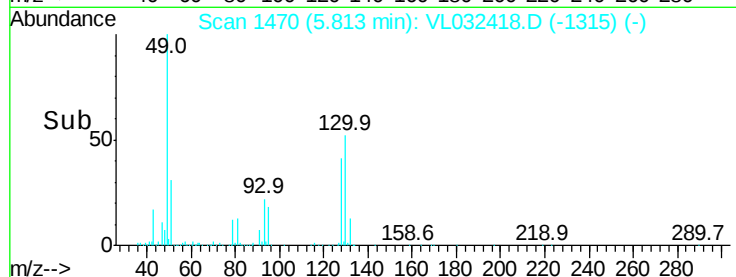
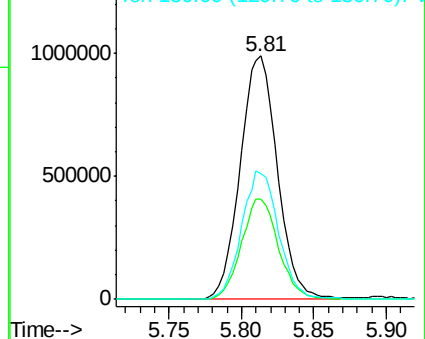
130 52.6 26.2 78.5



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: 0.052 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032418.D

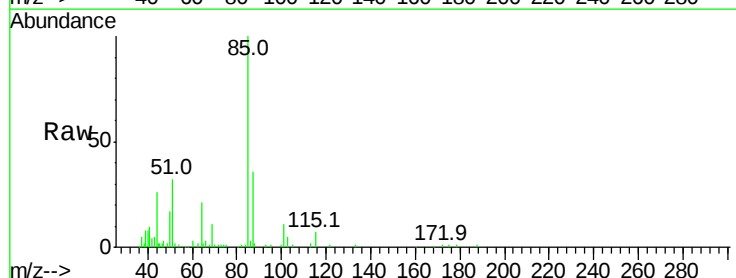
Acq: 21 Aug 2018 10:55

Tgt Ion: 85 Resp: 56410

Ion Ratio Lower Upper

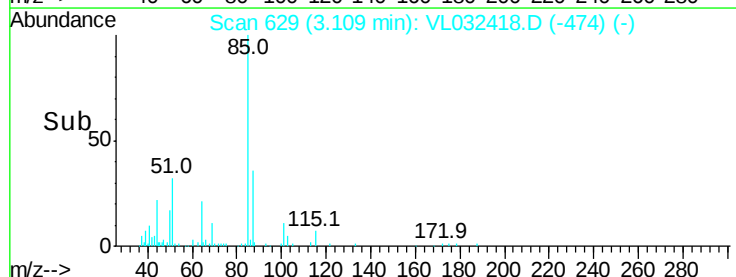
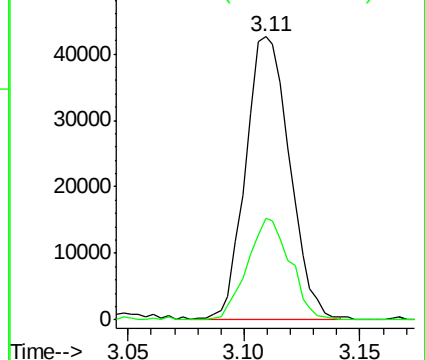
85 100

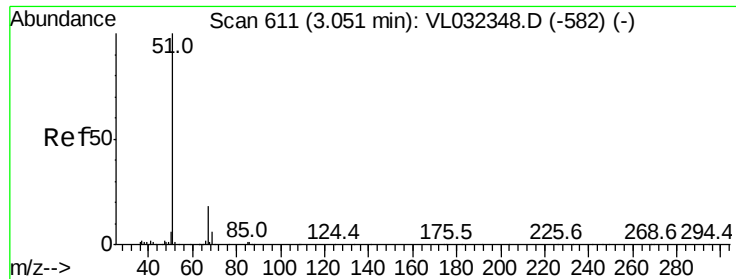
87 35.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

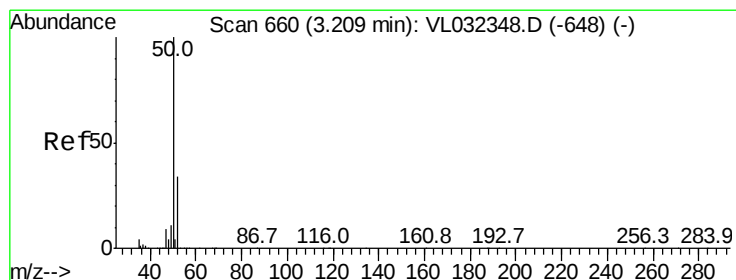
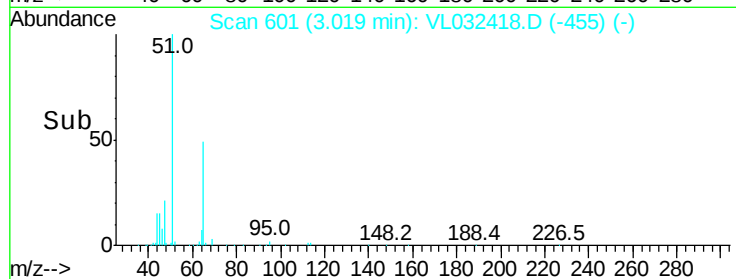
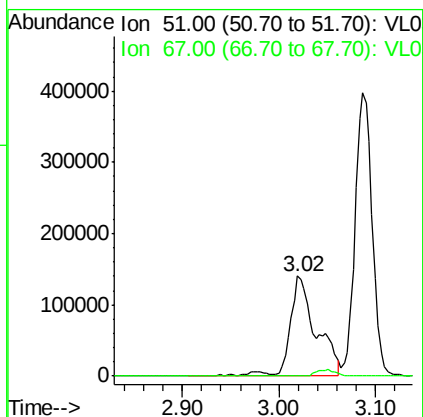
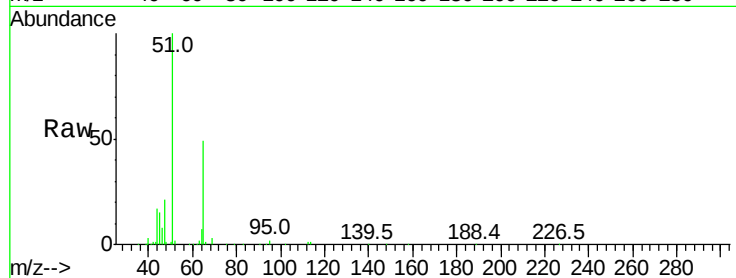




#3  
Chlorodifluoromethane  
Concen: 1.623 ppbv  
RT: 3.02 min Scan# 601  
Delta R.T. -0.03 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

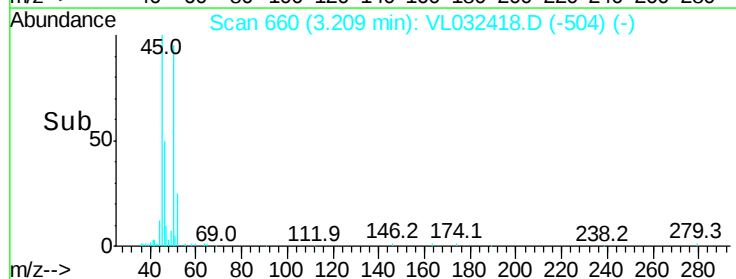
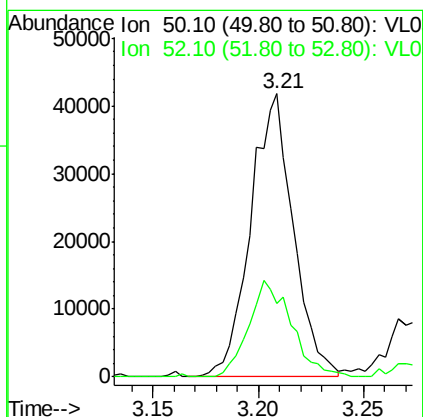
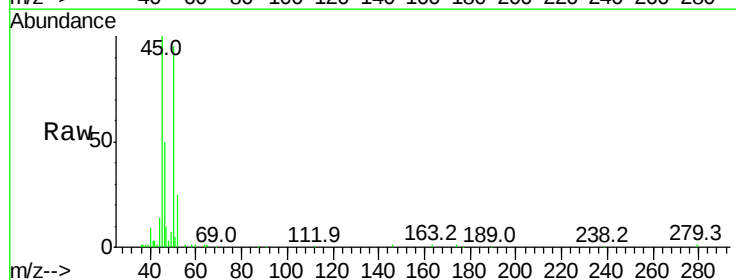
Instrument :  
MSVOA\_L  
ClientSampled :  
IA1

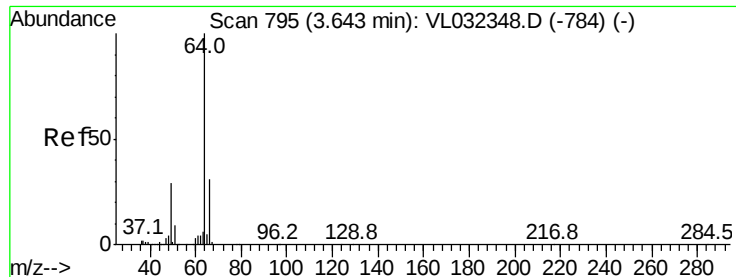
Tgt Ion: 51 Resp: 265135  
Ion Ratio Lower Upper  
51 100  
67 4.9 13.7 20.5#



#4  
Chloromethane  
Concen: 0.607 ppbv  
RT: 3.21 min Scan# 660  
Delta R.T. -0.00 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

Tgt Ion: 50 Resp: 58982  
Ion Ratio Lower Upper  
50 100  
52 25.9 26.8 40.2#





#7

Chloroethane

Concen: 0.046 ppbv

RT: 3.38 min Scan# 713

Delta R.T. -0.26 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

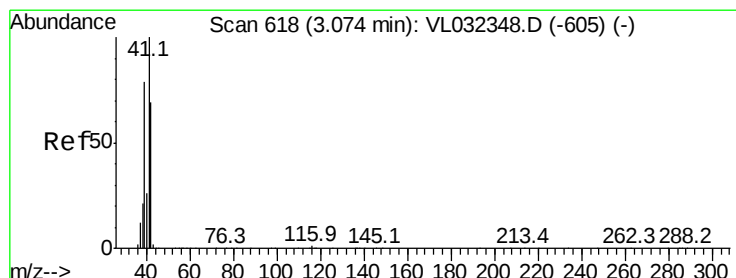
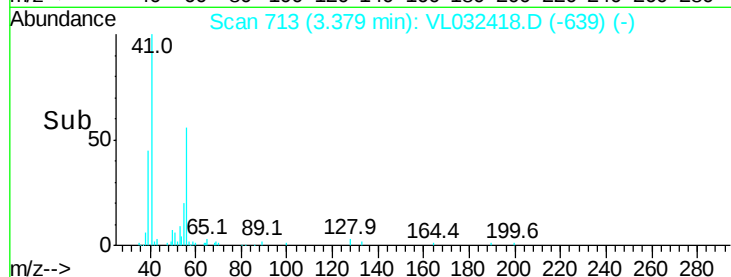
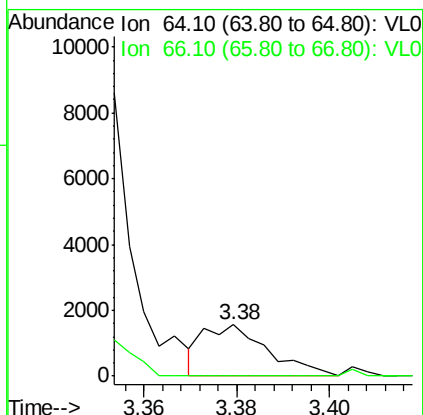
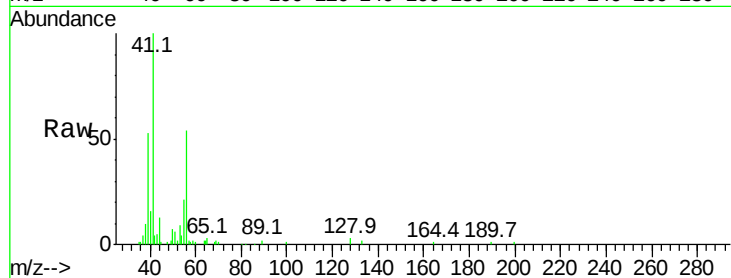
IA1

Tgt Ion: 64 Resp: 1506

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#9

Propene

Concen: 6.866 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.20 min

Lab File: VL032418.D

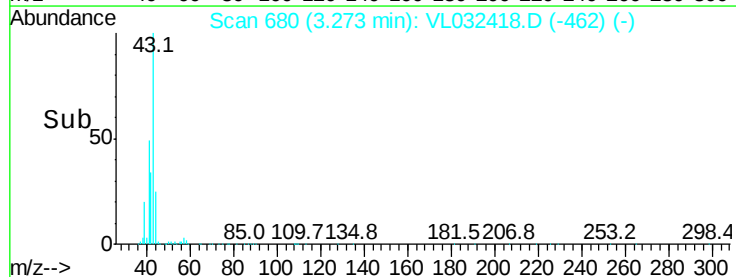
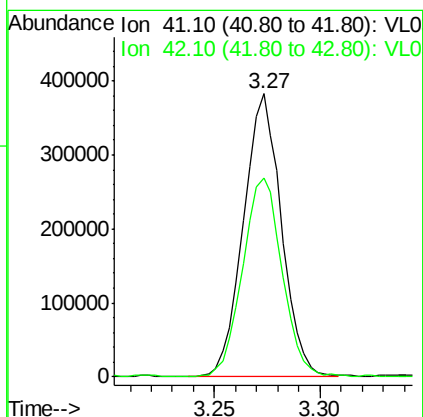
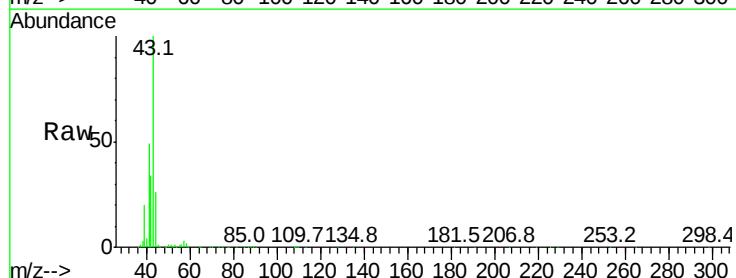
Acq: 21 Aug 2018 10:55

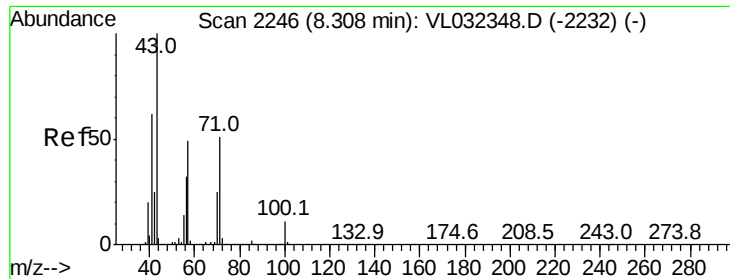
Tgt Ion: 41 Resp: 479976

Ion Ratio Lower Upper

41 100

42 73.2 55.9 83.9





#10

Heptane

Concen: 0.072 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

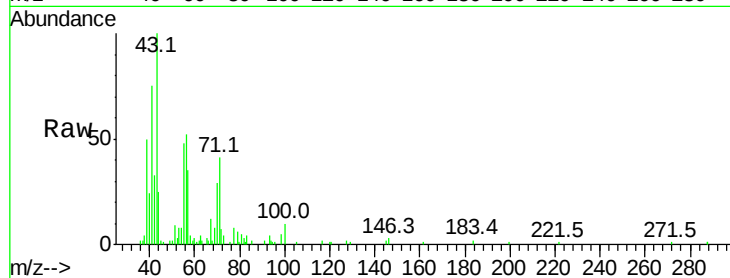
IA1

Tgt Ion: 43 Resp: 15113

Ion Ratio Lower Upper

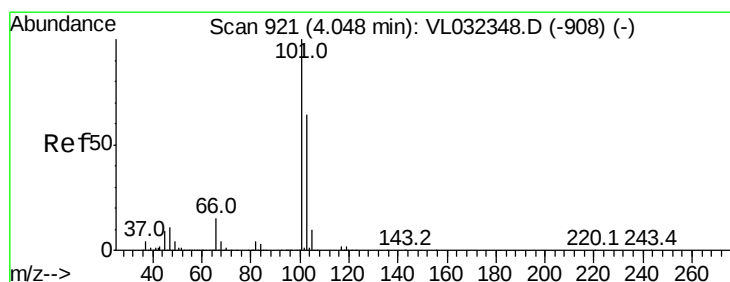
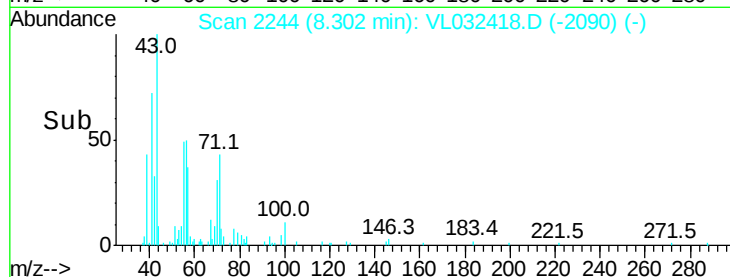
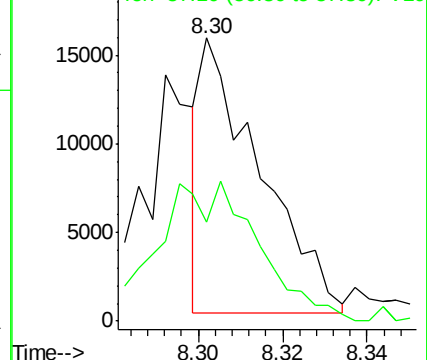
43 100

57 95.3 39.5 59.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.263 ppbv

RT: 4.05 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL032418.D

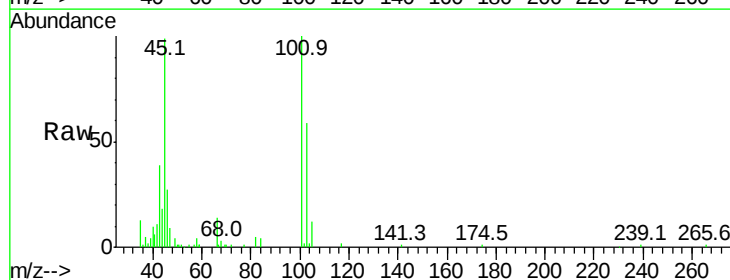
Acq: 21 Aug 2018 10:55

Tgt Ion: 101 Resp: 51844

Ion Ratio Lower Upper

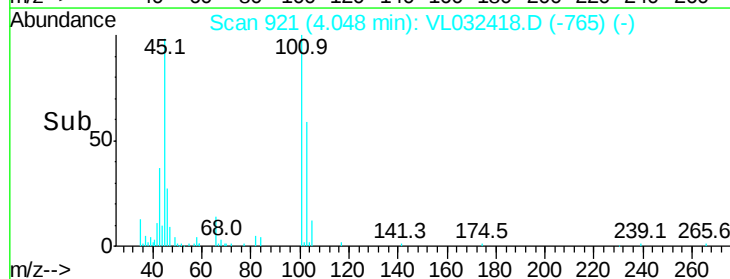
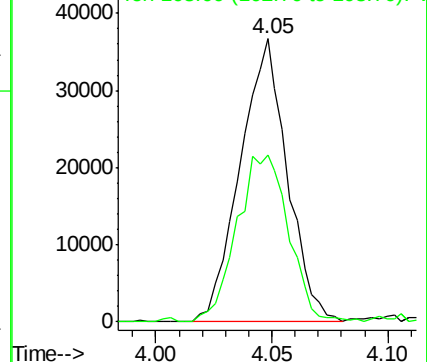
101 100

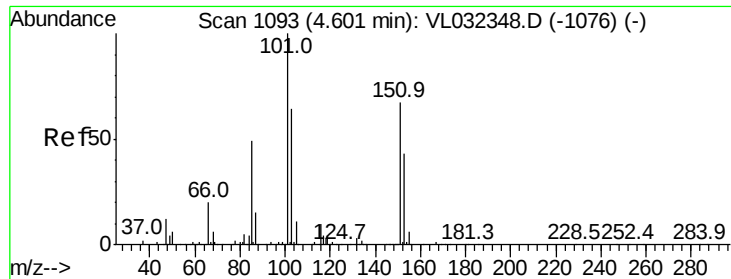
103 59.1 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

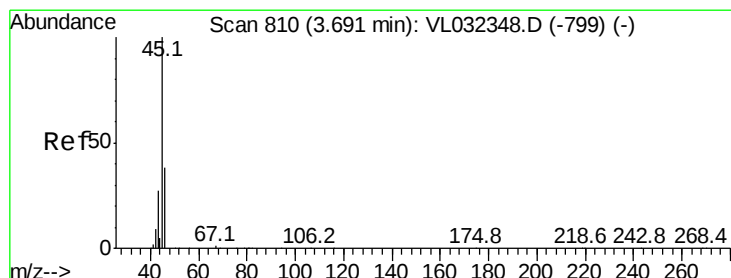
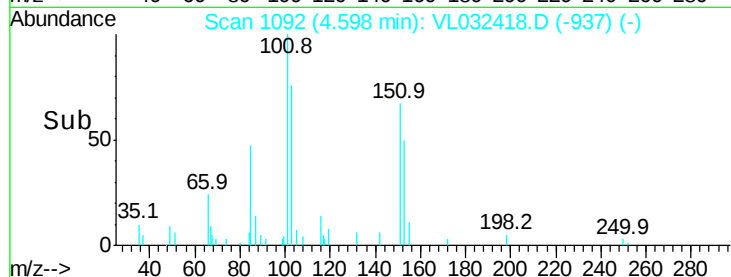
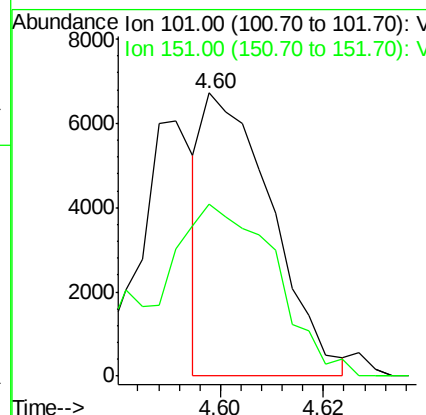
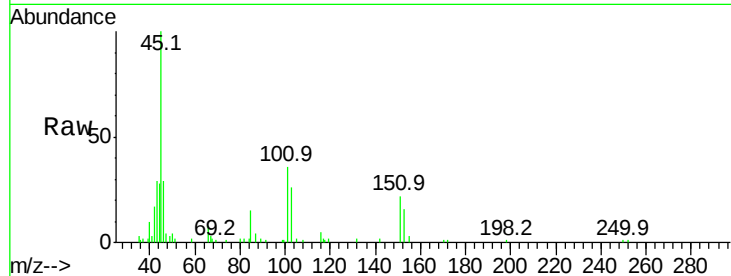




#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.047 ppbv  
 RT: 4.60 min Scan# 1092  
 Delta R.T. -0.00 min  
 Lab File: VL032418.D  
 Acq: 21 Aug 2018 10:55

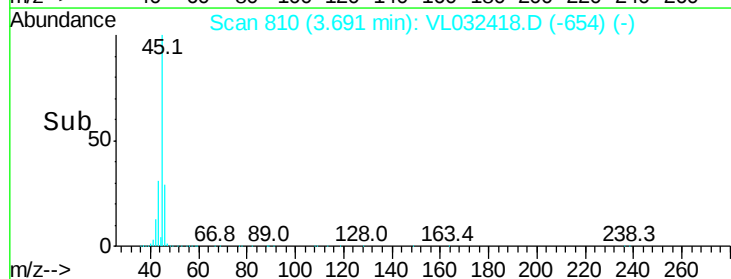
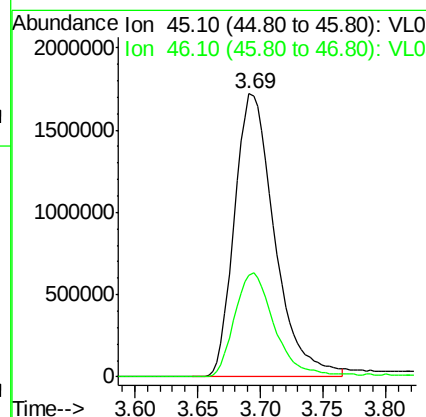
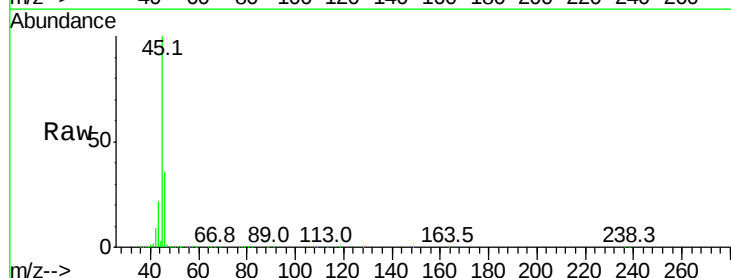
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

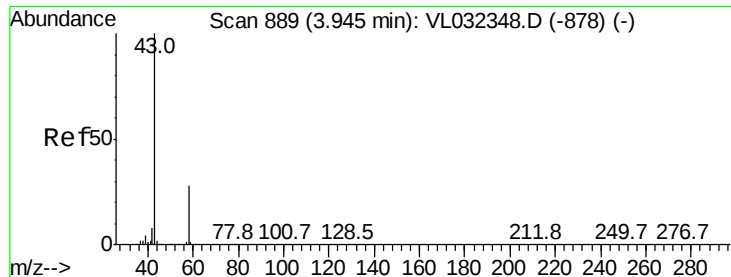
Tgt Ion: 101 Resp: 6212  
 Ion Ratio Lower Upper  
 101 100  
 151 108.8 53.1 79.7#



#13  
 Ethanol  
 Concen: 213.288 ppbv  
 RT: 3.69 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: VL032418.D  
 Acq: 21 Aug 2018 10:55

Tgt Ion: 45 Resp: 3829418  
 Ion Ratio Lower Upper  
 45 100  
 46 37.9 15.6 62.4





#15

Acetone

Concen: 21.510 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

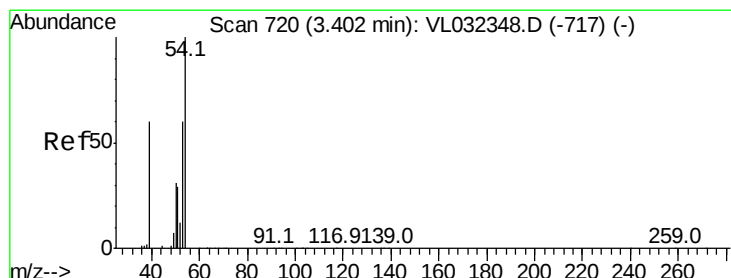
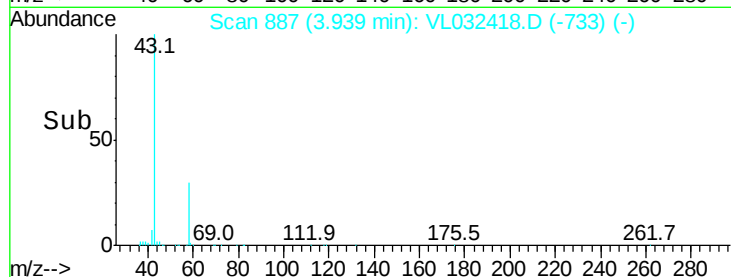
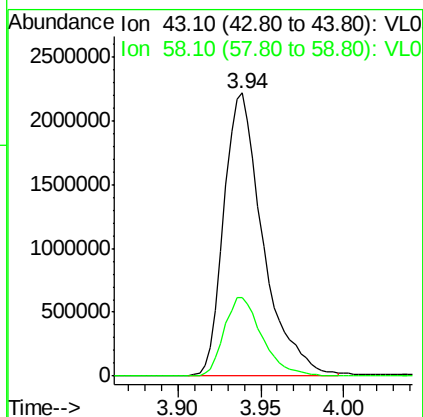
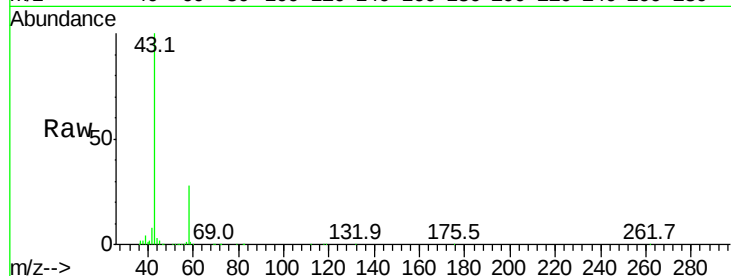
IA1

Tgt Ion: 43 Resp: 3603524

Ion Ratio Lower Upper

43 100

58 27.5 22.4 33.6



#16

1,3-Butadiene

Concen: 0.221 ppbv

RT: 3.38 min Scan# 713

Delta R.T. -0.02 min

Lab File: VL032418.D

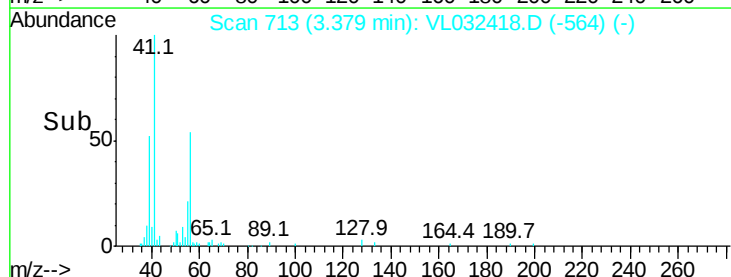
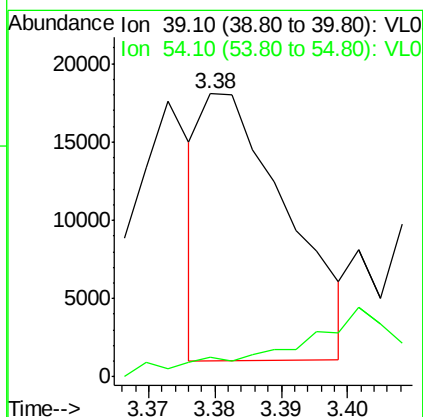
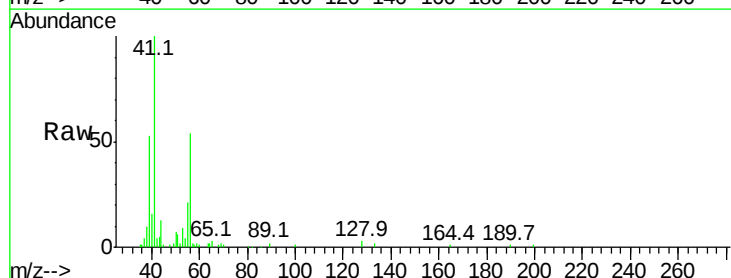
Acq: 21 Aug 2018 10:55

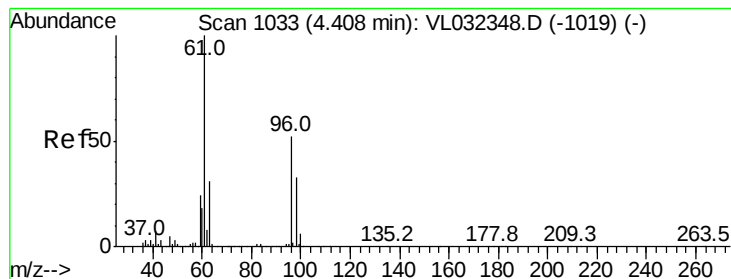
Tgt Ion: 39 Resp: 15285

Ion Ratio Lower Upper

39 100

54 72.8 85.5 128.3#





#17

tert-Butyl alcohol

Concen: 2.180 ppbv

RT: 4.42 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

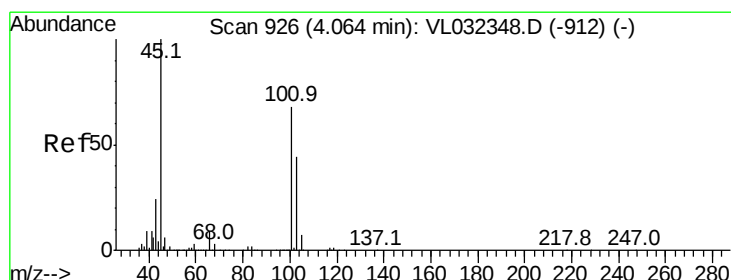
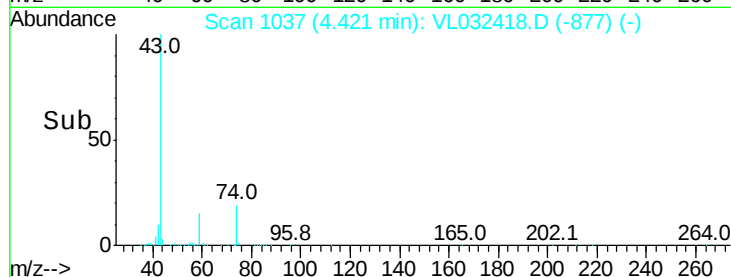
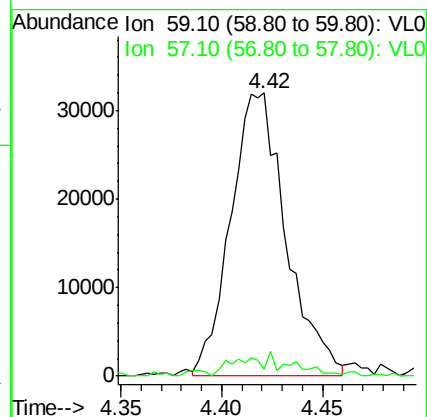
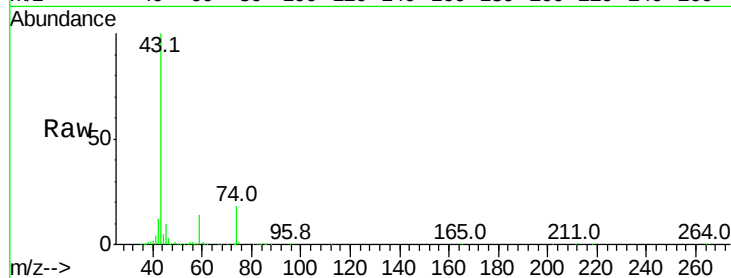
IA1

Tgt Ion: 59 Resp: 61279

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



#19

Isopropyl Alcohol

Concen: 3.491 ppbv

RT: 4.08 min Scan# 930

Delta R.T. 0.01 min

Lab File: VL032418.D

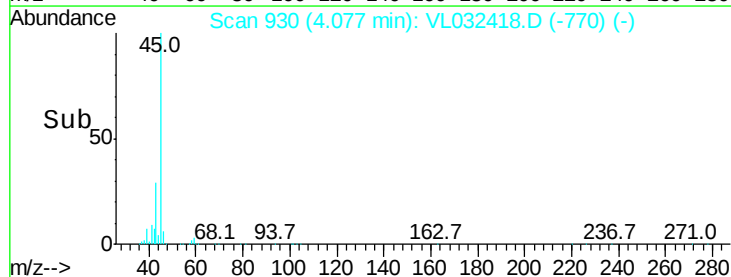
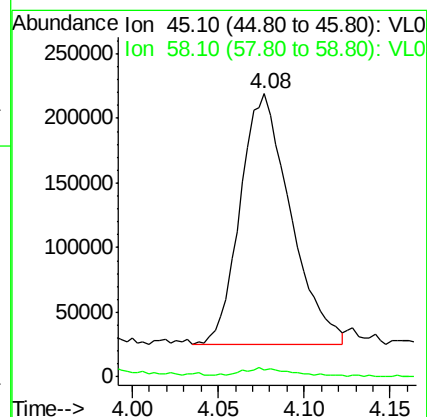
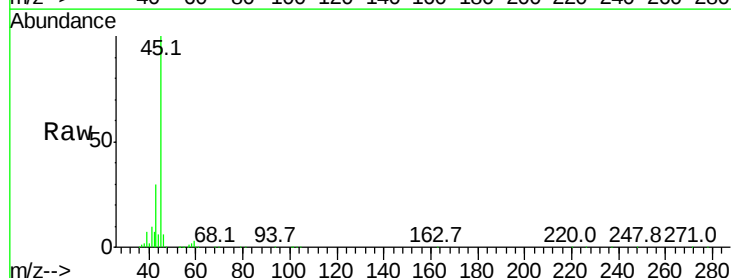
Acq: 21 Aug 2018 10:55

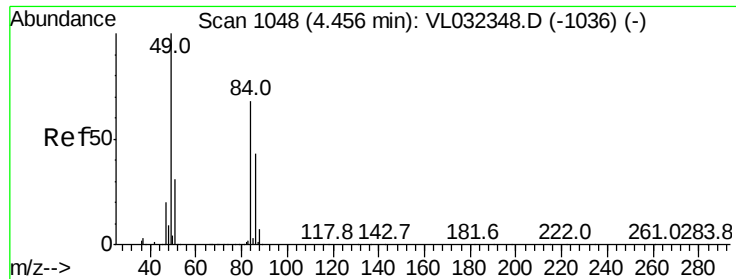
Tgt Ion: 45 Resp: 393837

Ion Ratio Lower Upper

45 100

58 252.0 1.4 2.0#

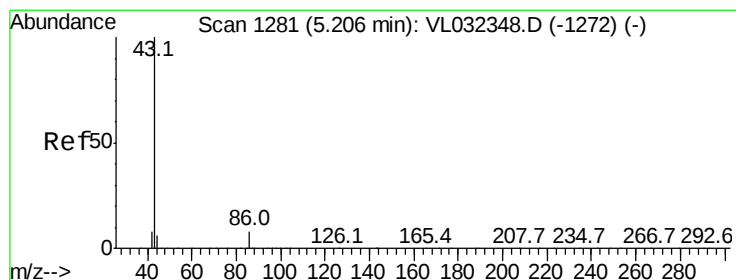
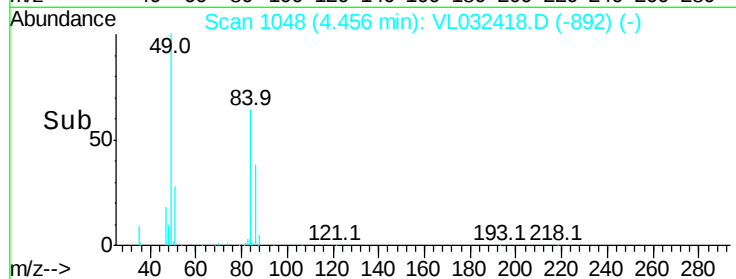
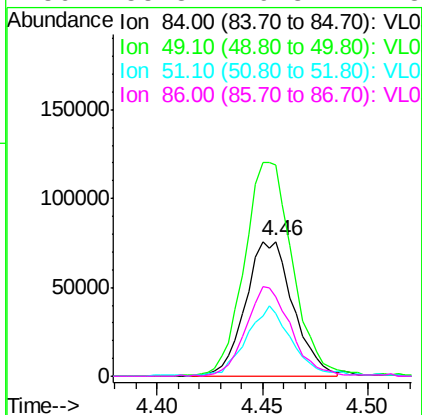
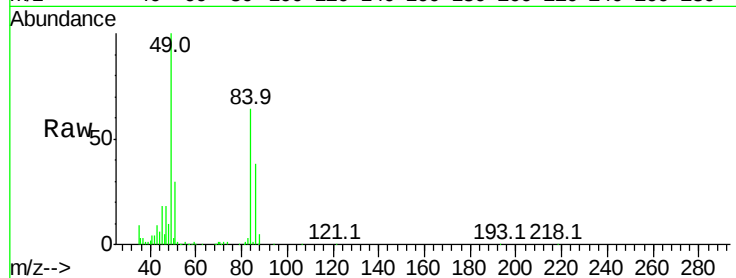




#20  
Methylene Chloride  
Concen: 1.890 ppbv  
RT: 4.46 min Scan# 1048  
Delta R.T. -0.00 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

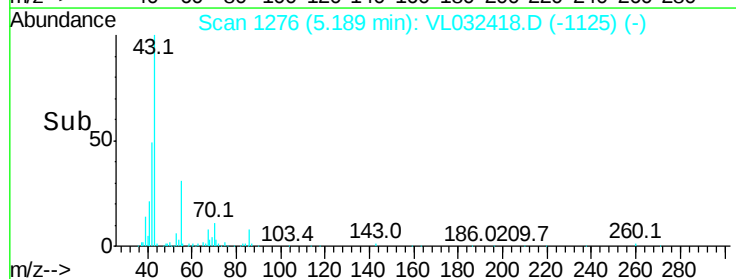
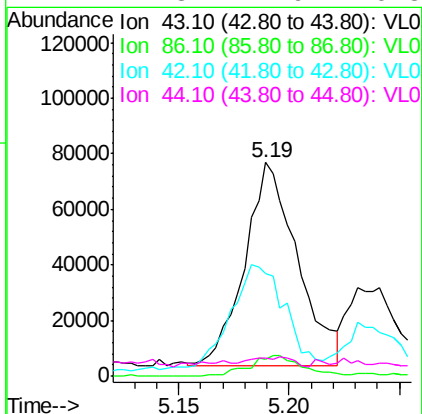
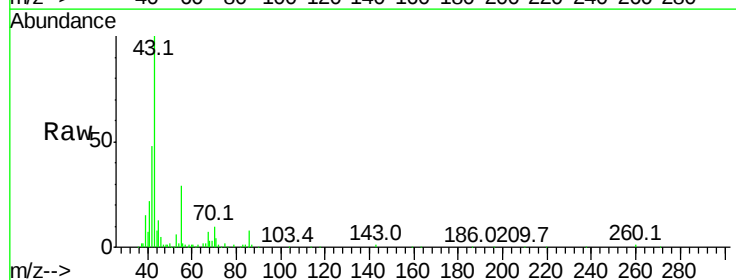
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

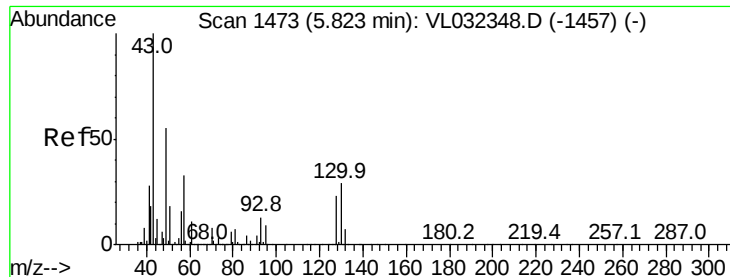
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 119554 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 155.9 | 117.3 | 175.9  |
| 51       | 46.2  | 36.6  | 55.0   |
| 86       | 58.8  | 49.8  | 74.8   |



#23  
Vinyl Acetate  
Concen: 0.422 ppbv  
RT: 5.19 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 122054 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 8.1   | 5.5   | 8.3    |
| 42       | 46.6  | 7.0   | 10.6#  |
| 44       | 2.3   | 4.6   | 6.8#   |

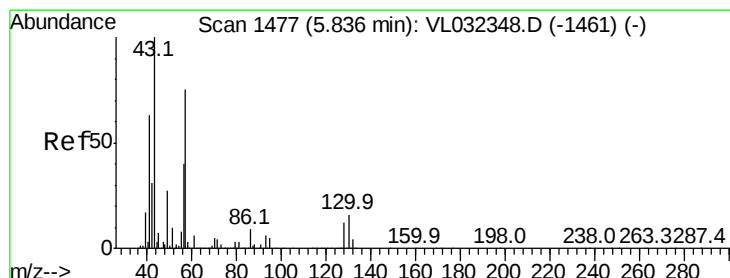
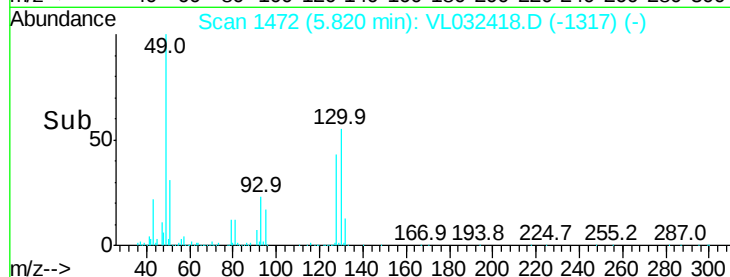
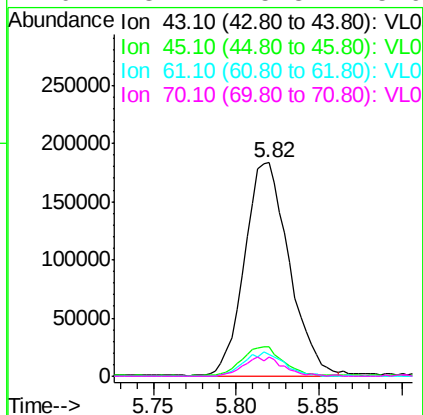
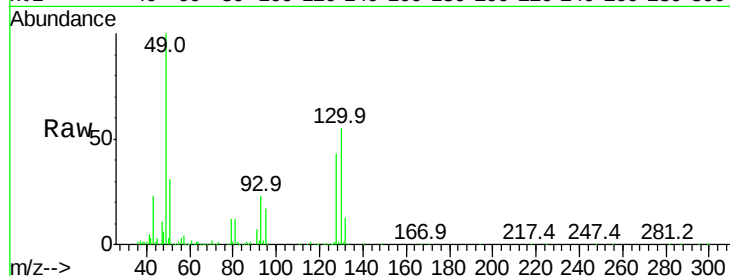




#25  
Ethyl Acetate  
Concen: 0.955 ppbv  
RT: 5.82 min Scan# 1472  
Delta R.T. -0.00 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

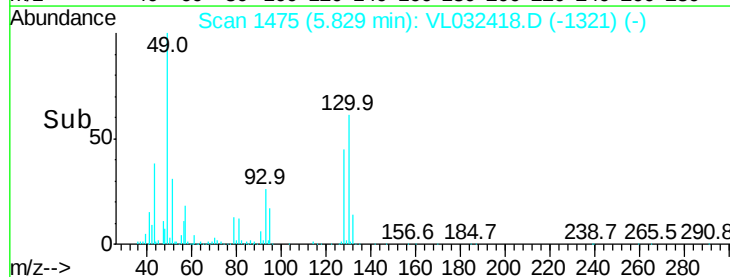
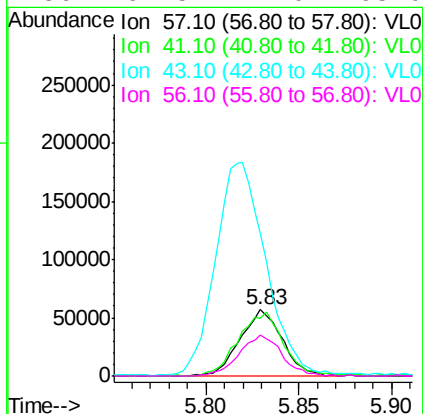
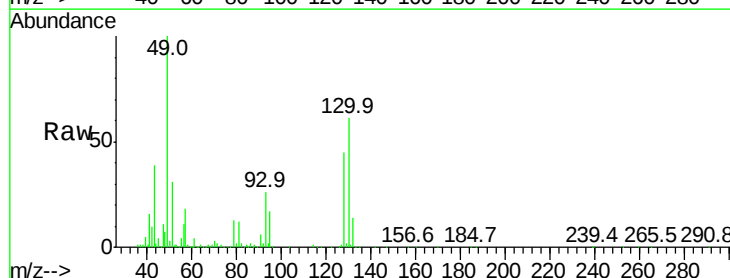
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

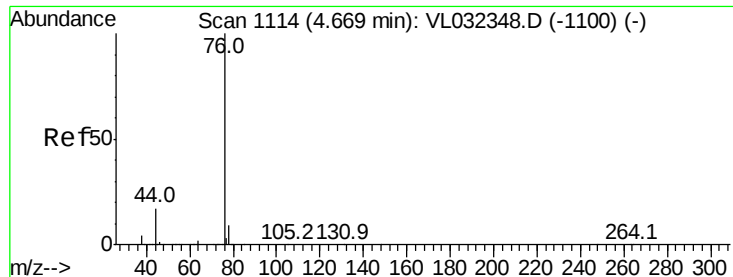
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 342971 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 13.2  | 7.9   | 11.9#  |
| 61       | 10.1  | 7.4   | 11.2   |
| 70       | 8.1   | 5.8   | 8.6    |



#26  
Hexane  
Concen: 0.562 ppbv  
RT: 5.83 min Scan# 1475  
Delta R.T. -0.01 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 89931  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 103.3 | 68.0  | 102.0# |
| 43       | 384.5 | 175.3 | 262.9# |
| 56       | 62.5  | 42.0  | 63.0   |





#27

Carbon Disulfide

Concen: 0.064 ppbv

RT: 4.66 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampled :

IA1

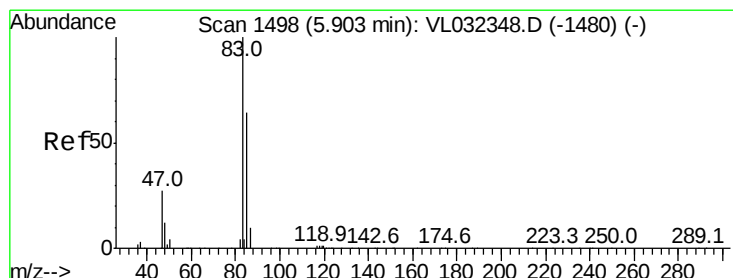
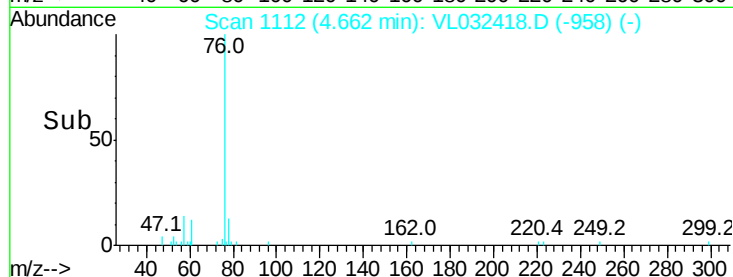
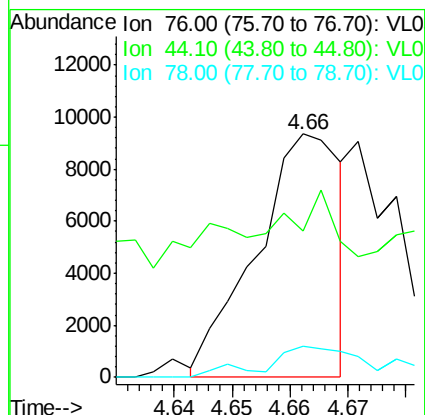
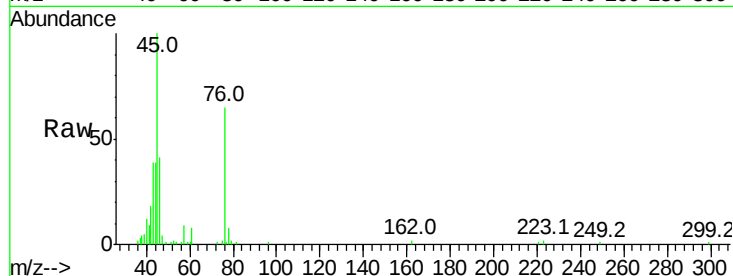
Tgt Ion: 76 Resp: 9495

Ion Ratio Lower Upper

76 100

44 96.3 14.4 21.6#

78 18.8 7.4 11.0#



#29

Chloroform

Concen: 0.497 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032418.D

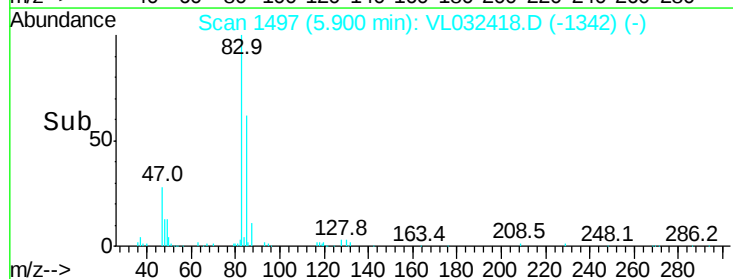
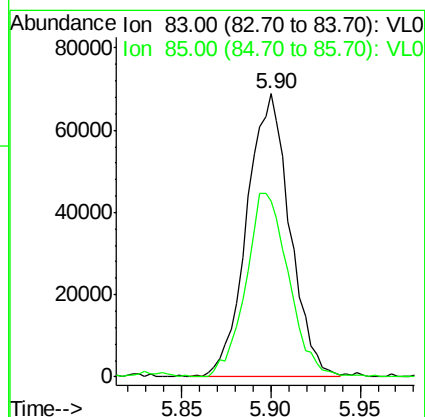
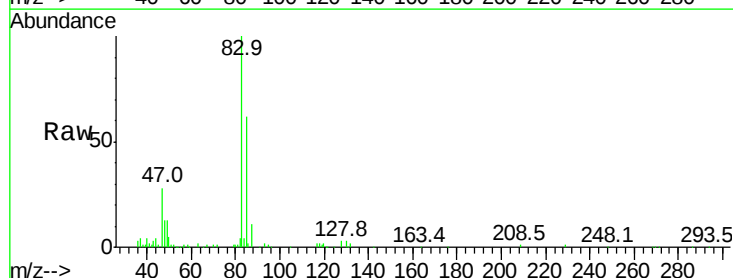
Acq: 21 Aug 2018 10:55

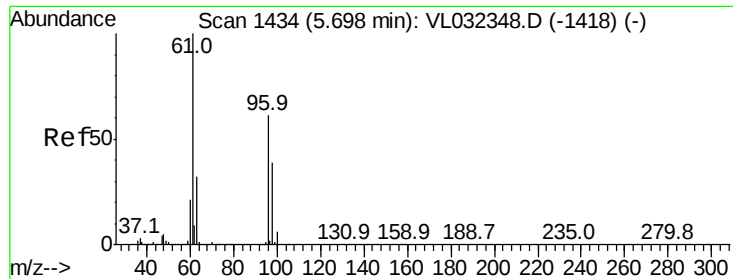
Tgt Ion: 83 Resp: 116514

Ion Ratio Lower Upper

83 100

85 62.2 51.6 77.4

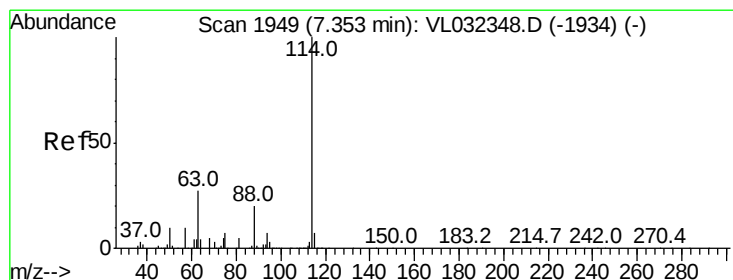
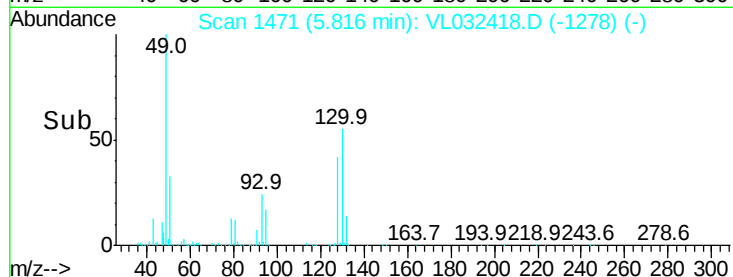
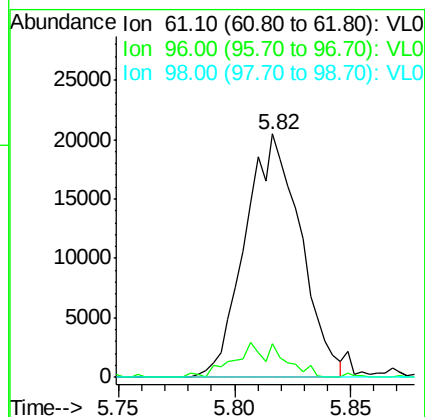
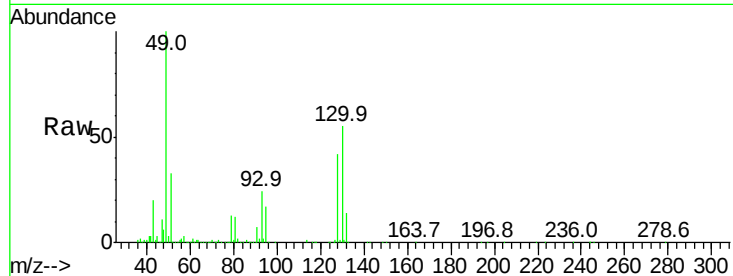




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.217 ppbv  
 RT: 5.82 min Scan# 1471  
 Delta R.T. 0.12 min  
 Lab File: VL032418.D  
 Acq: 21 Aug 2018 10:55

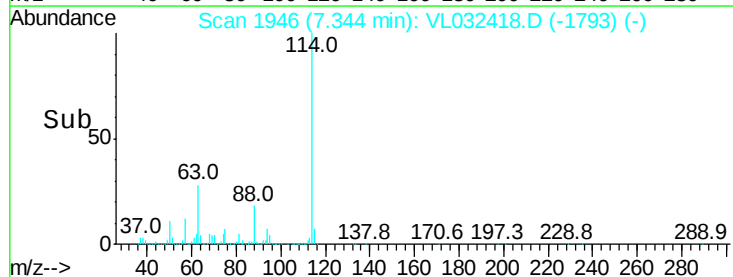
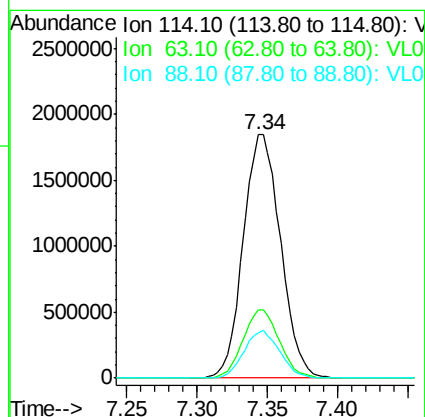
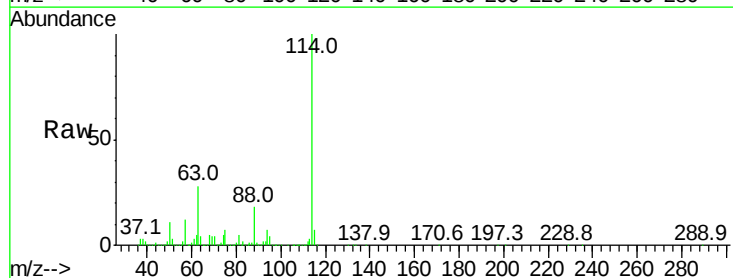
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

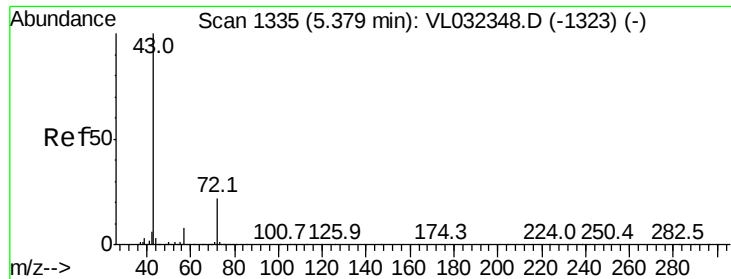
Tgt Ion: 61 Resp: 33947  
 Ion Ratio Lower Upper  
 61 100  
 96 13.6 48.5 72.7#  
 98 0.0 31.0 46.4#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.34 min Scan# 1946  
 Delta R.T. -0.01 min  
 Lab File: VL032418.D  
 Acq: 21 Aug 2018 10:55

Tgt Ion: 114 Resp: 3430709  
 Ion Ratio Lower Upper  
 114 100  
 63 27.3 22.0 33.0  
 88 18.8 15.3 22.9

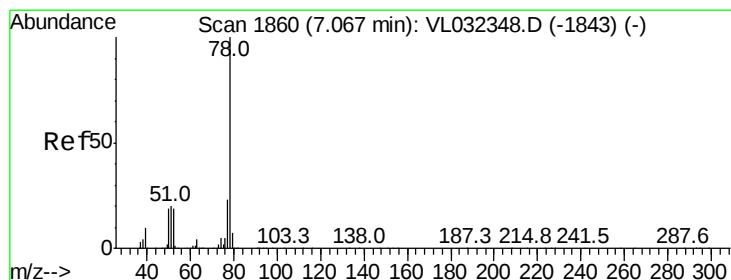
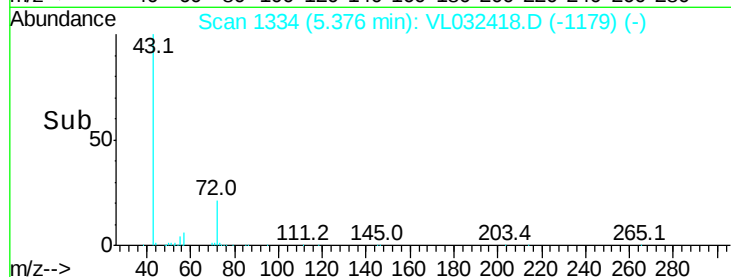
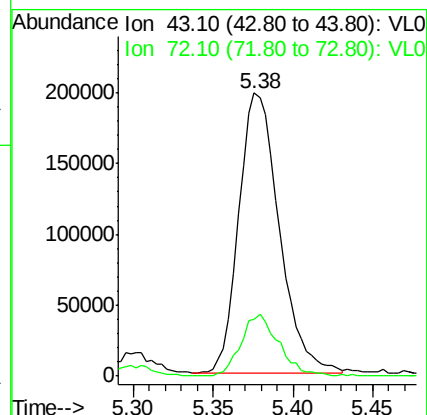
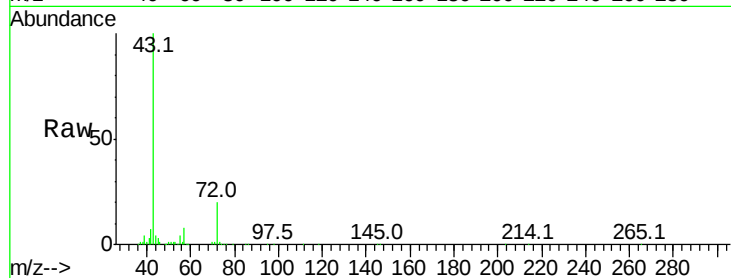




#34  
2-Butanone  
Concen: 1.450 ppbv  
RT: 5.38 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

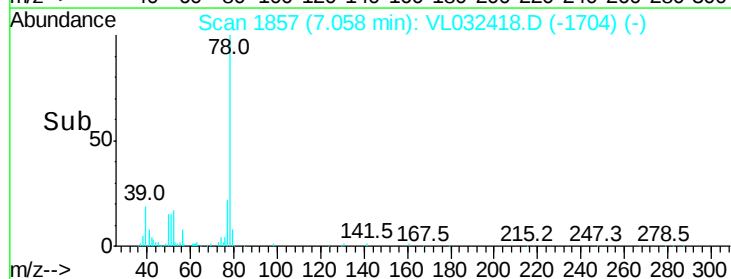
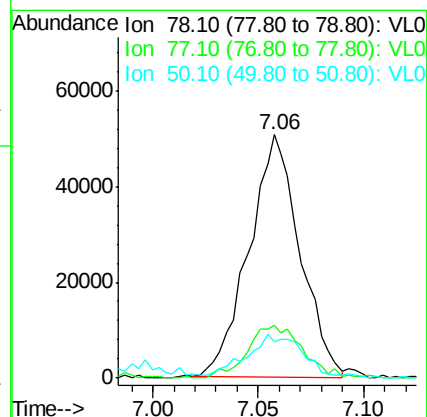
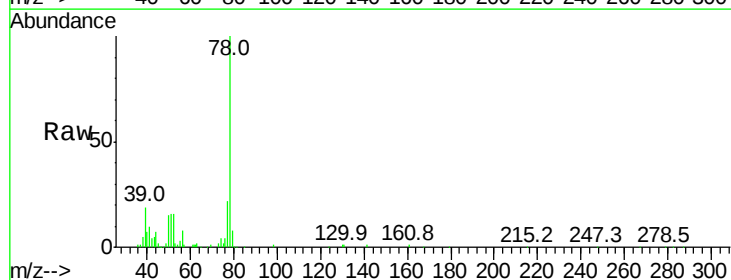
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

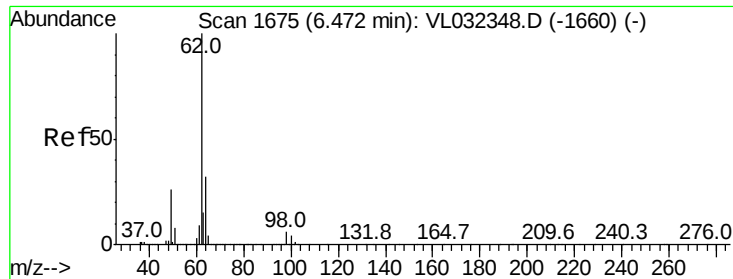
Tgt Ion: 43 Resp: 338596  
Ion Ratio Lower Upper  
43 100  
72 20.6 17.9 26.9



#36  
Benzene  
Concen: 0.293 ppbv  
RT: 7.06 min Scan# 1857  
Delta R.T. -0.01 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

Tgt Ion: 78 Resp: 85159  
Ion Ratio Lower Upper  
78 100  
77 21.3 18.0 27.0  
50 13.7 15.1 22.7#





#37

1,2-Dichloroethane

Concen: 0.030 ppbv

RT: 6.46 min Scan# 1672

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

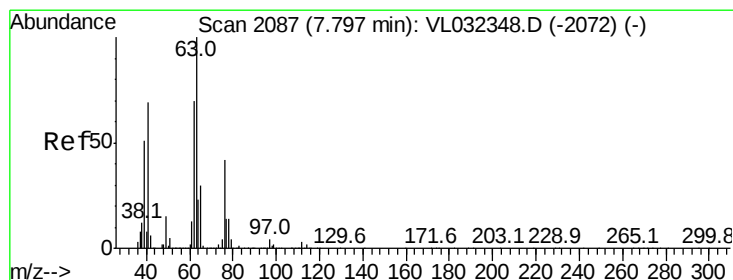
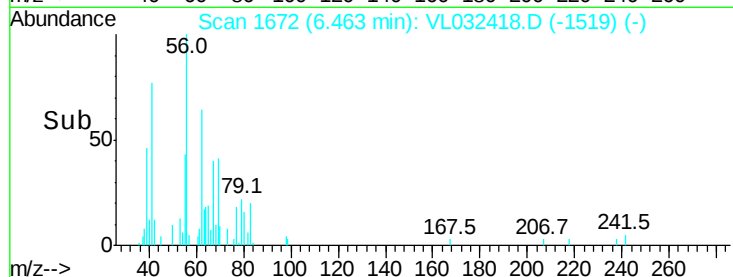
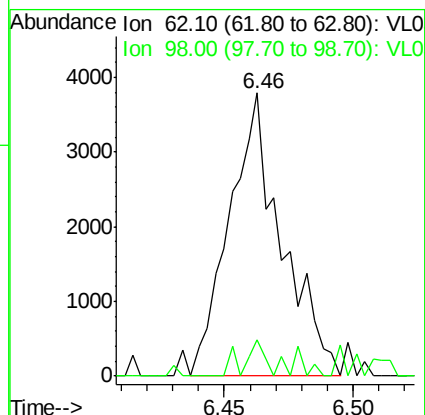
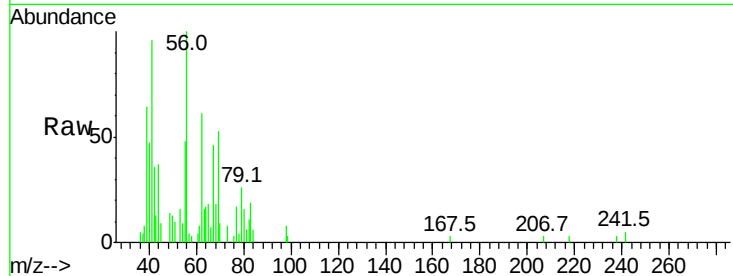
IA1

Tgt Ion: 62 Resp: 5368

Ion Ratio Lower Upper

62 100

98 14.0 5.0 7.6#



#39

1,2-Dichloropropane

Concen: 7.662 ppbv

RT: 7.34 min Scan# 1946

Delta R.T. -0.45 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

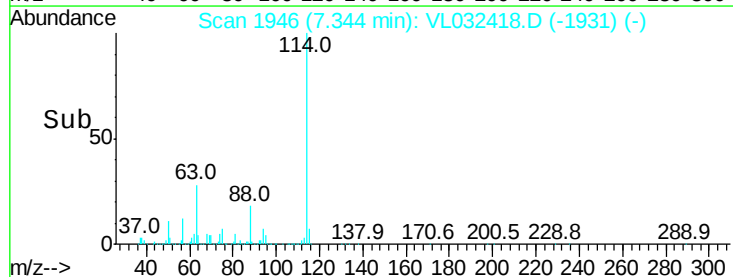
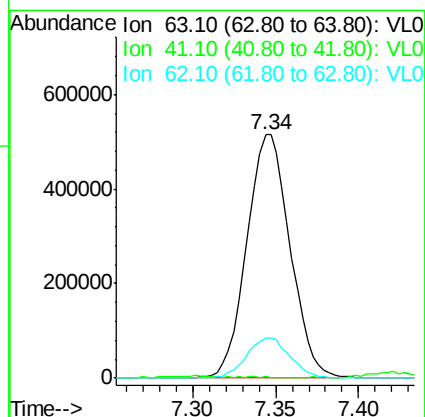
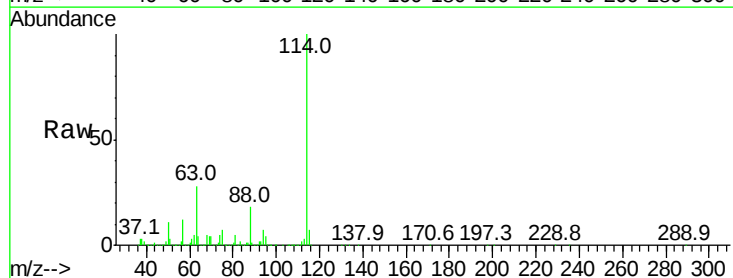
Tgt Ion: 63 Resp: 930894

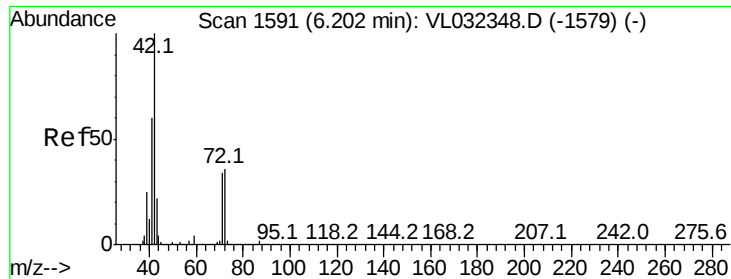
Ion Ratio Lower Upper

63 100

41 0.1 55.5 83.3#

62 16.1 56.3 84.5#

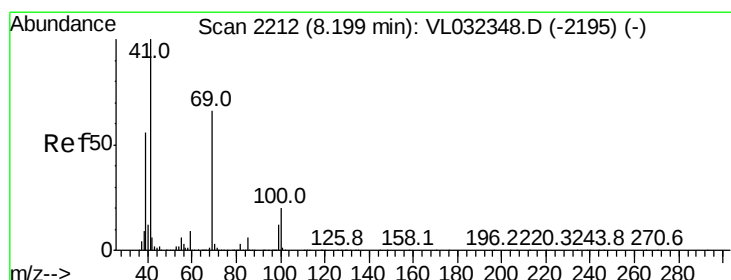
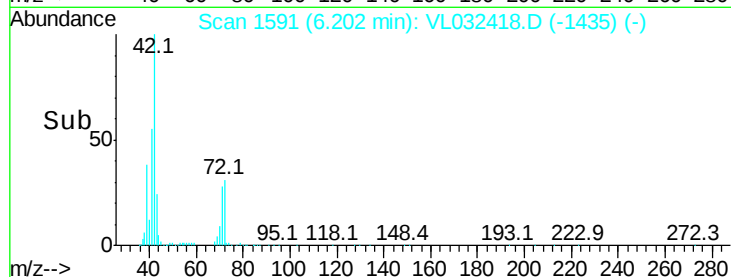
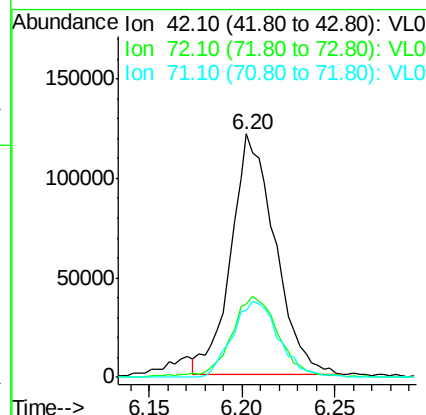
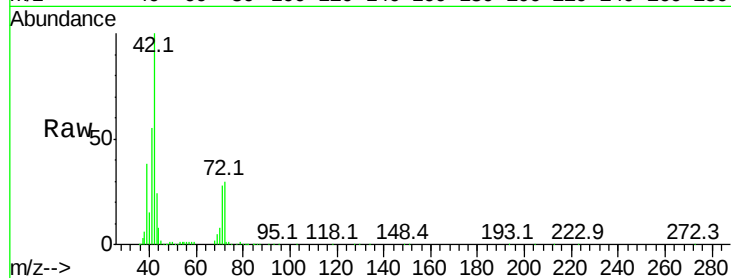




#41  
Tetrahydrofuran  
Concen: 1.580 ppbv  
RT: 6.20 min Scan# 1591  
Delta R.T. -0.00 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

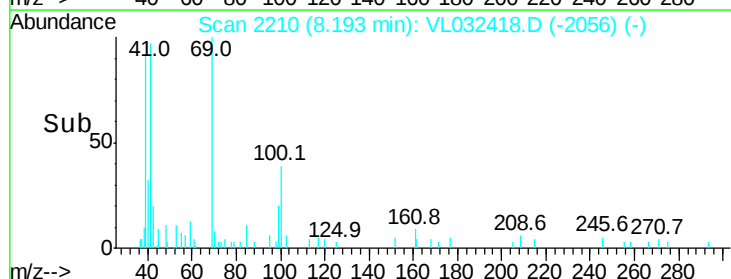
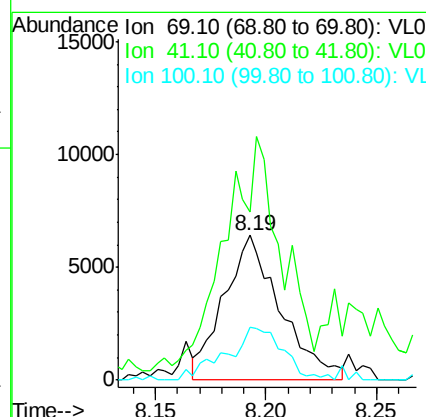
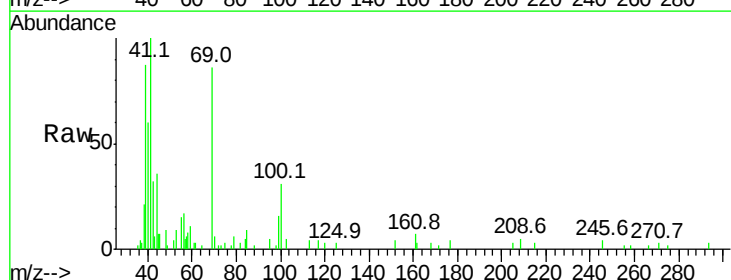
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

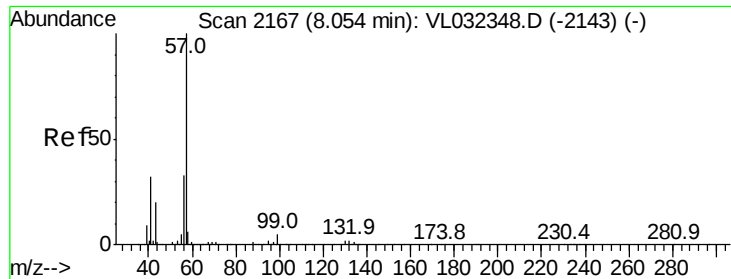
Tgt Ion: 42 Resp: 198114  
Ion Ratio Lower Upper  
42 100  
72 37.2 29.8 44.6  
71 34.1 28.2 42.2



#43  
Methyl Methacrylate  
Concen: 0.098 ppbv  
RT: 8.19 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

Tgt Ion: 69 Resp: 11412  
Ion Ratio Lower Upper  
69 100  
41 193.6 118.6 177.8#  
100 39.2 23.4 35.2#





#44

2,2,4-Trimethylpentane

Concen: 0.057 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.00 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampled :

IA1

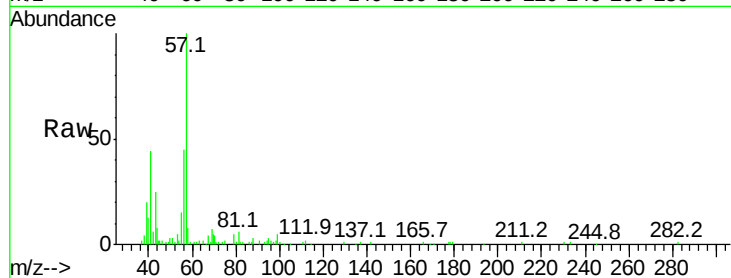
Tgt Ion: 57 Resp: 29975

Ion Ratio Lower Upper

57 100

41 0.0 24.3 36.5#

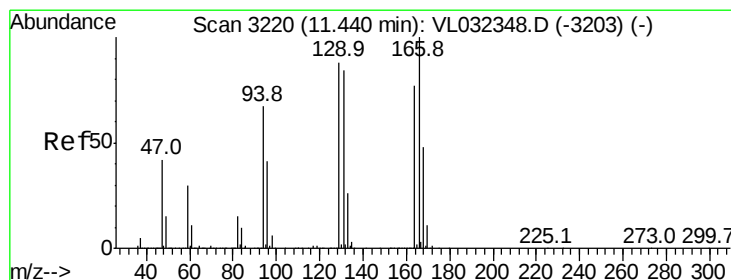
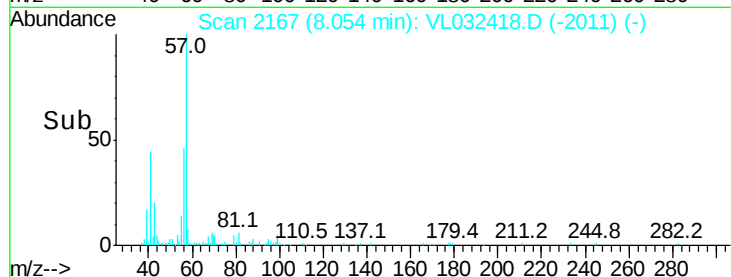
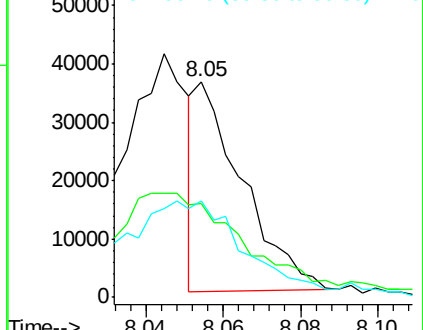
56 136.2 25.7 38.5#



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



#52

Tetrachloroethene

Concen: 0.296 ppbv

RT: 11.43 min Scan# 3218

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Tgt Ion: 164 Resp: 25409

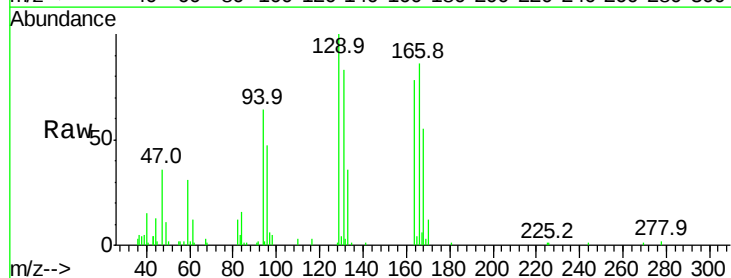
Ion Ratio Lower Upper

164 100

166 105.4 103.5 155.3

129 127.0 90.9 136.3

131 98.6 86.7 130.1

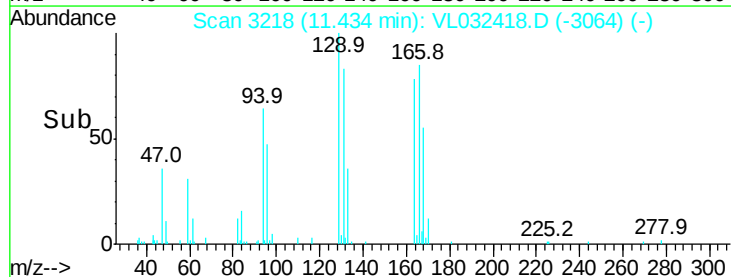
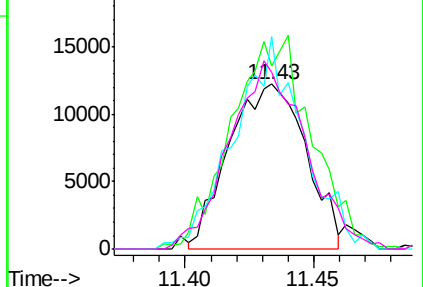


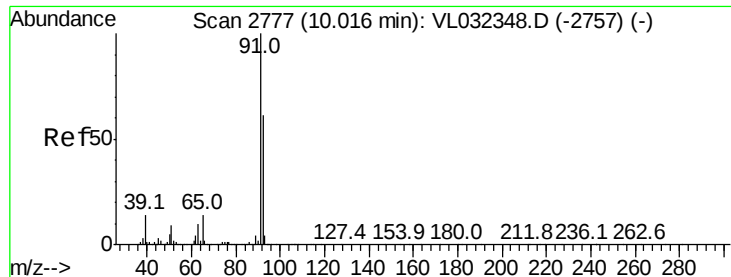
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.033 ppbv

RT: 10.00 min Scan# 2773

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

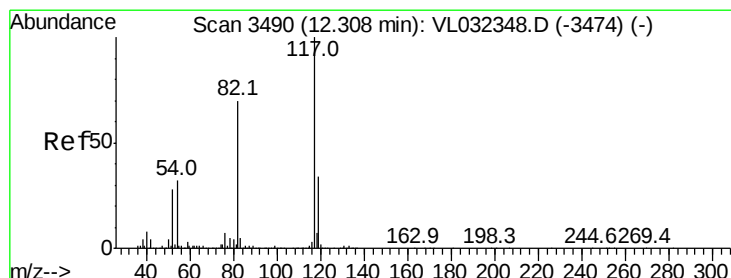
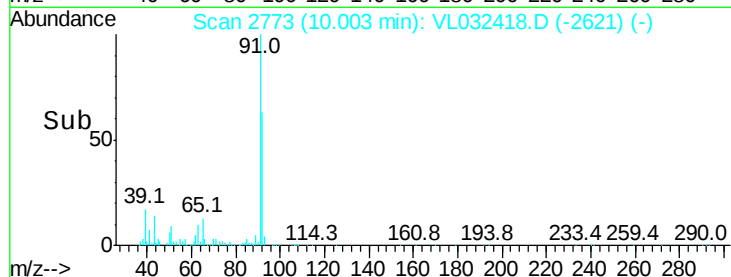
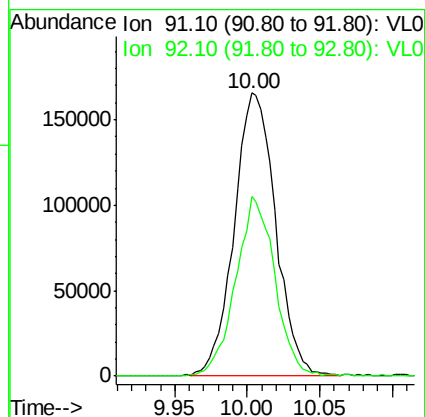
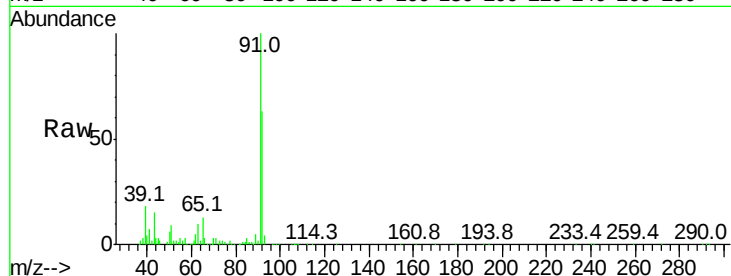
IA1

Tgt Ion: 91 Resp: 329271

Ion Ratio Lower Upper

91 100

92 60.2 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3487

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

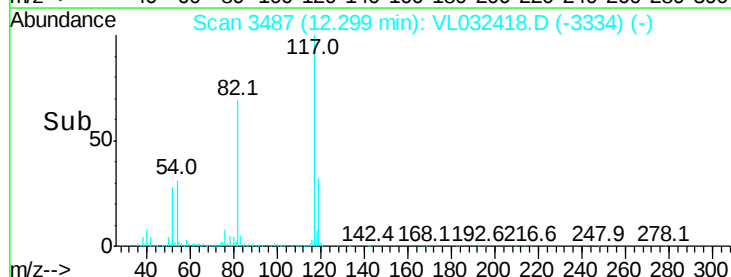
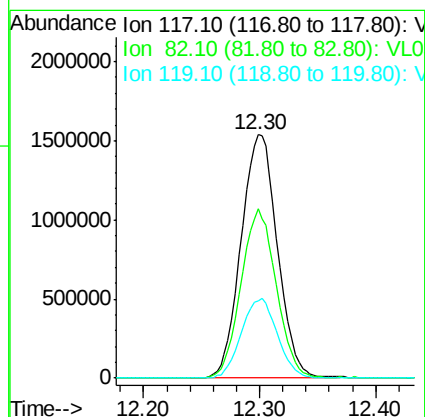
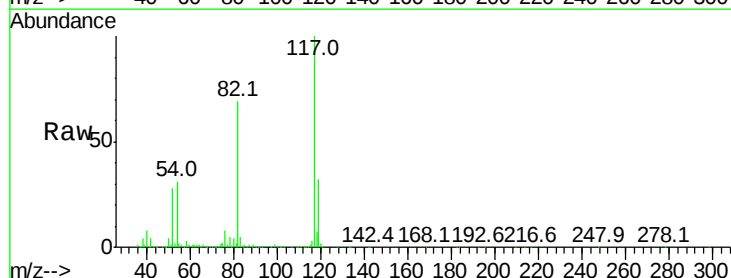
Tgt Ion: 117 Resp: 3347986

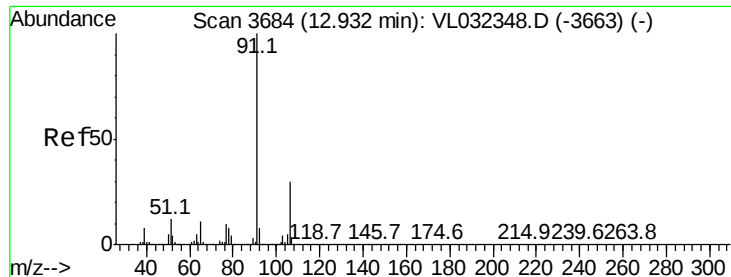
Ion Ratio Lower Upper

117 100

82 67.3 55.1 82.7

119 32.4 46.0 69.0#





#58

Ethyl Benzene

Concen: 0.072 ppbv

RT: 12.92 min Scan# 3680

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

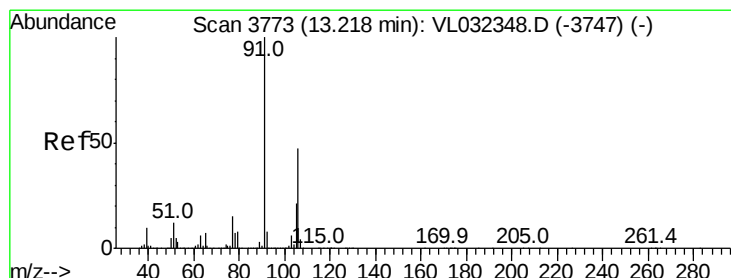
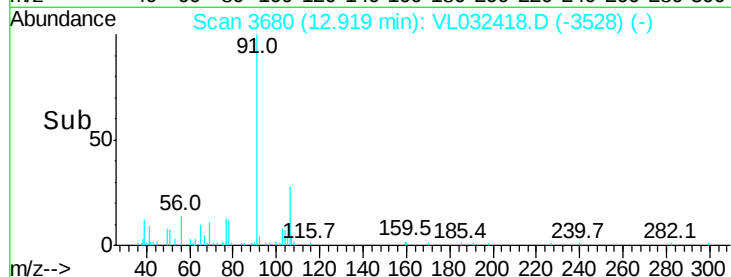
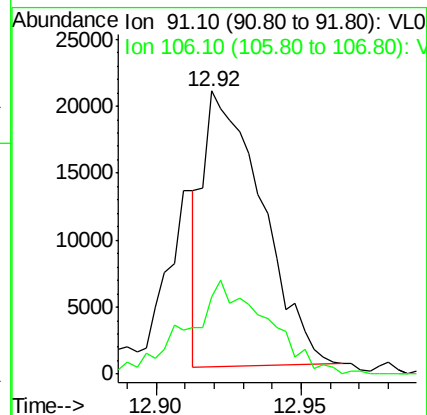
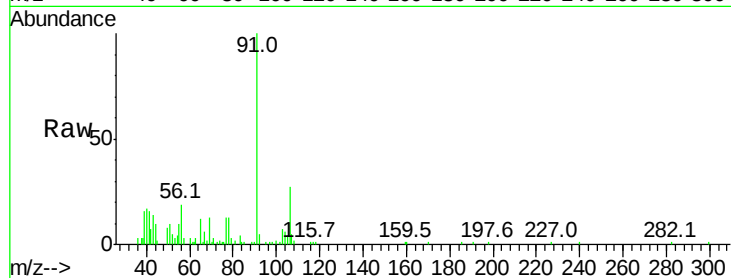
IA1

Tgt Ion: 91 Resp: 28852

Ion Ratio Lower Upper

91 100

106 28.5 24.3 36.5



#59

m/p-Xylene

Concen: 0.395 ppbv

RT: 13.18 min Scan# 3761

Delta R.T. -0.04 min

Lab File: VL032418.D

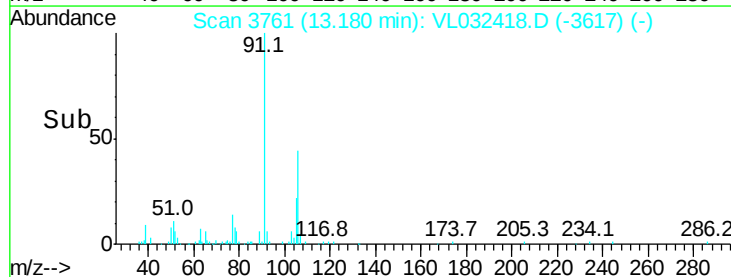
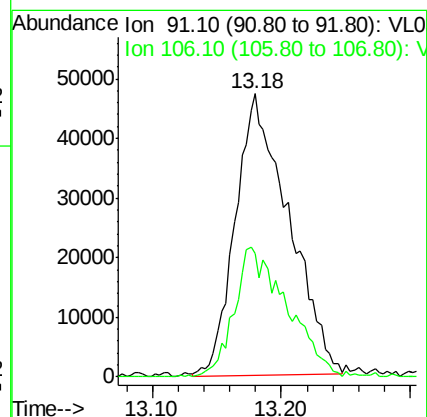
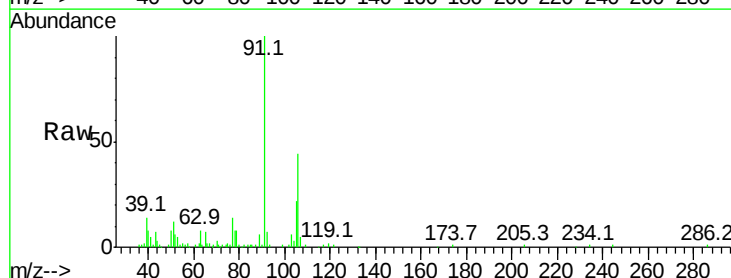
Acq: 21 Aug 2018 10:55

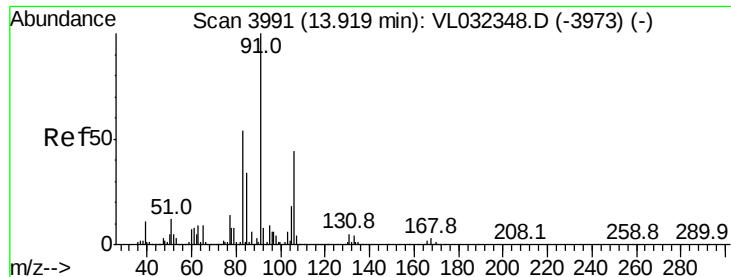
Tgt Ion: 91 Resp: 134989

Ion Ratio Lower Upper

91 100

106 46.2 37.0 55.4

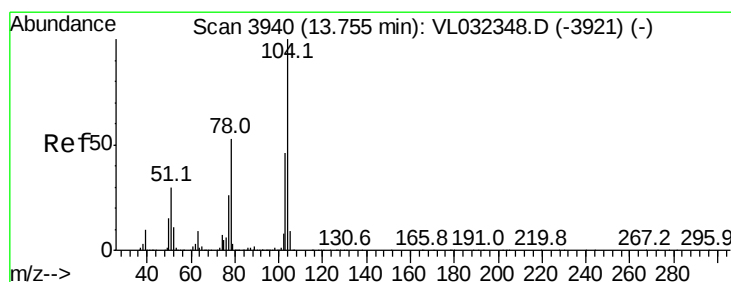
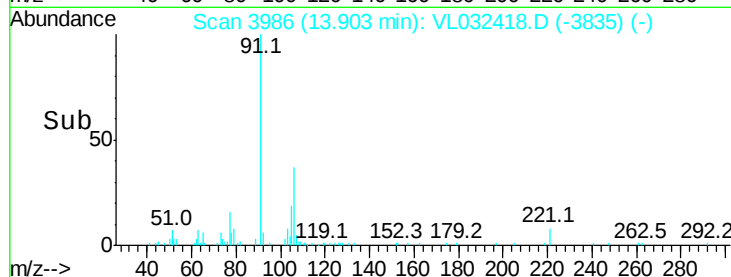
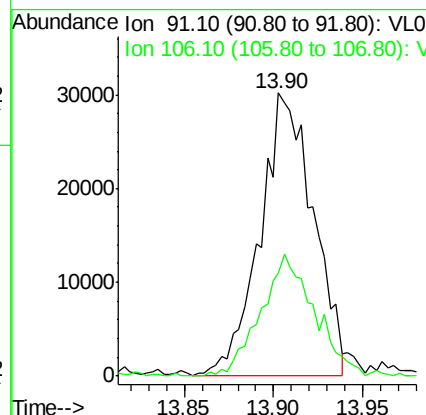
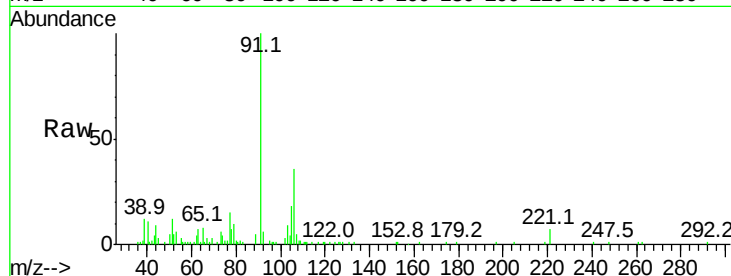




#60  
o-Xylene  
Concen: 0.187 ppbv  
RT: 13.90 min Scan# 3986  
Delta R.T. -0.02 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

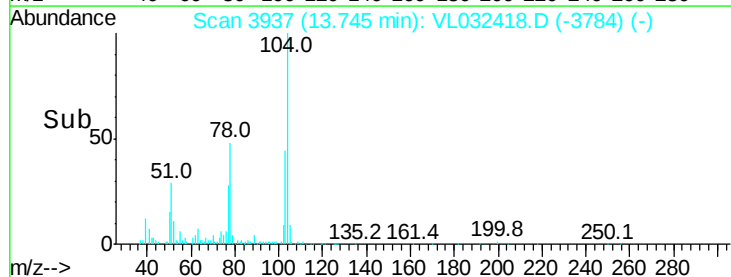
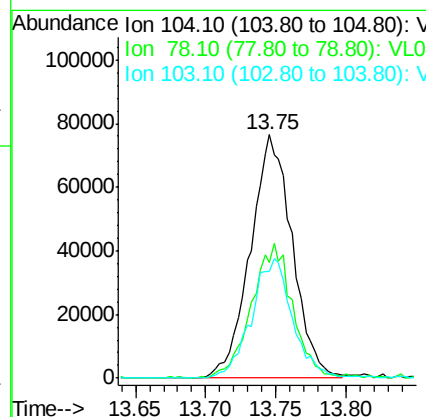
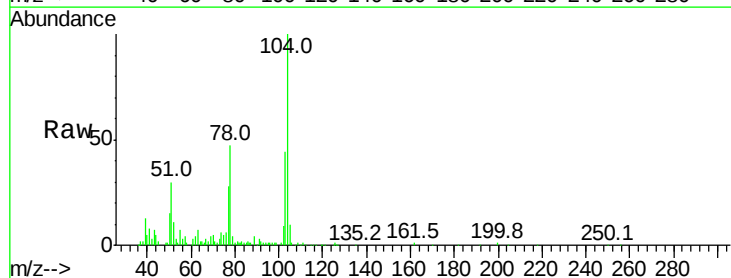
Instrument :  
MSVOA\_L  
ClientSampled :  
IA1

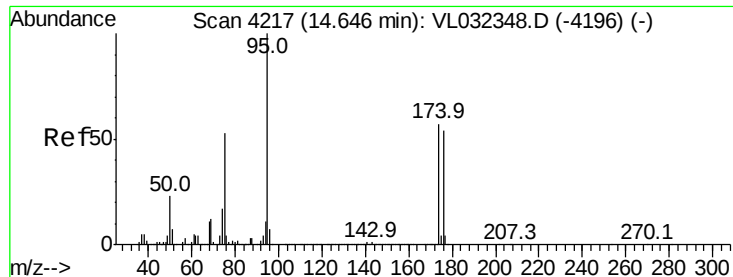
Tgt Ion: 91 Resp: 62958  
Ion Ratio Lower Upper  
91 100  
106 43.6 22.3 66.8



#61  
Styrene  
Concen: 0.676 ppbv  
RT: 13.75 min Scan# 3937  
Delta R.T. -0.01 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

Tgt Ion: 104 Resp: 158879  
Ion Ratio Lower Upper  
104 100  
78 54.5 42.6 64.0  
103 48.6 38.0 57.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.063 ppbv

RT: 14.64 min Scan# 4214

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

IA1

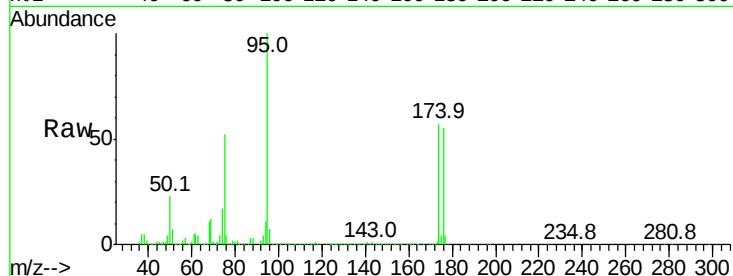
Tgt Ion: 95 Resp: 2570401

Ion Ratio Lower Upper

95 100

174 58.1 46.2 69.4

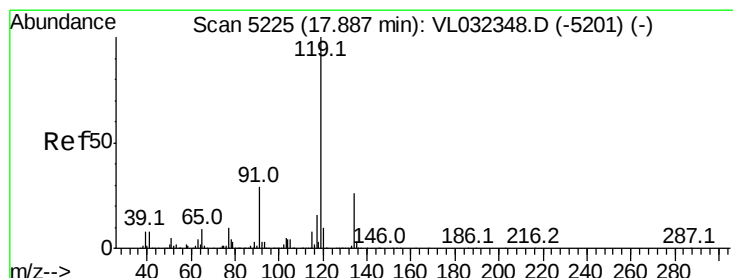
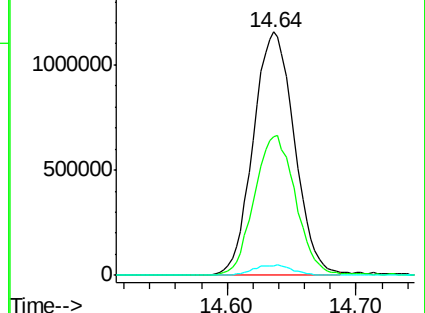
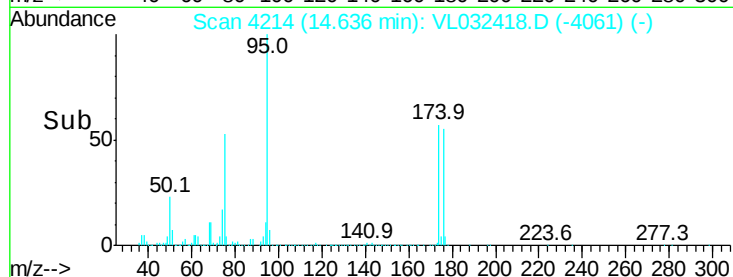
175 4.2 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.085 ppbv

RT: 17.87 min Scan# 5219

Delta R.T. -0.02 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

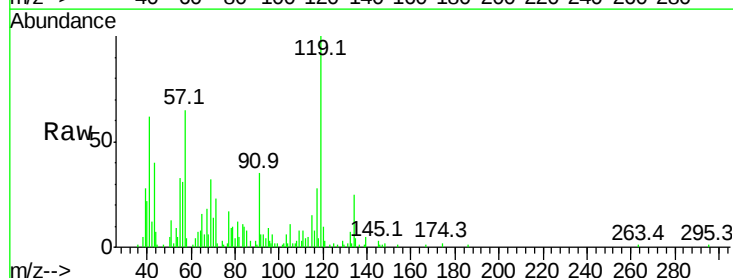
Tgt Ion: 119 Resp: 39488

Ion Ratio Lower Upper

119 100

134 30.0 20.4 30.6

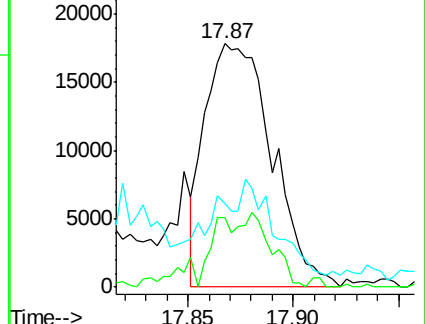
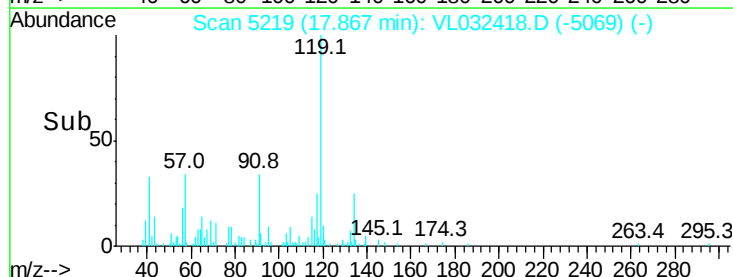
91 39.9 23.6 35.4#

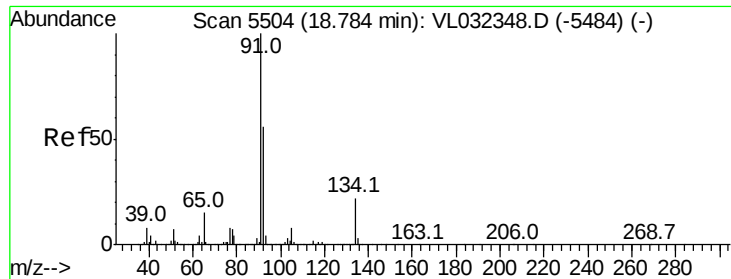


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

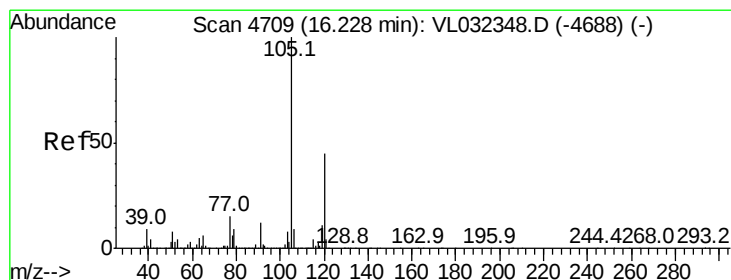
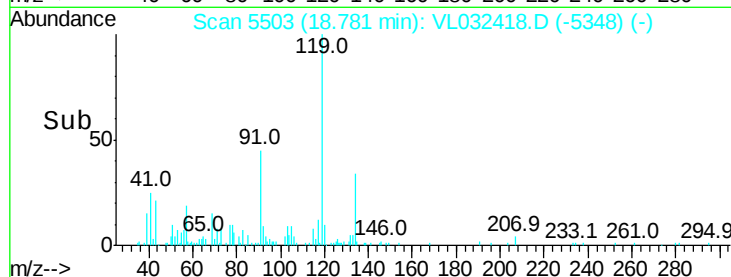
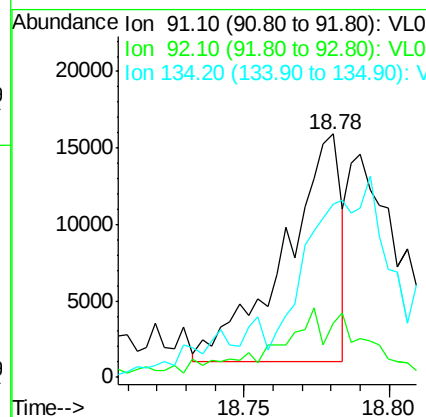
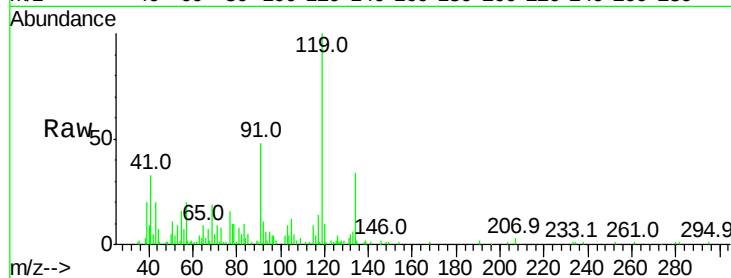




#70  
n-Butylbenzene  
Concen: 0.039 ppbv  
RT: 18.78 min Scan# 5503  
Delta R.T. -0.00 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

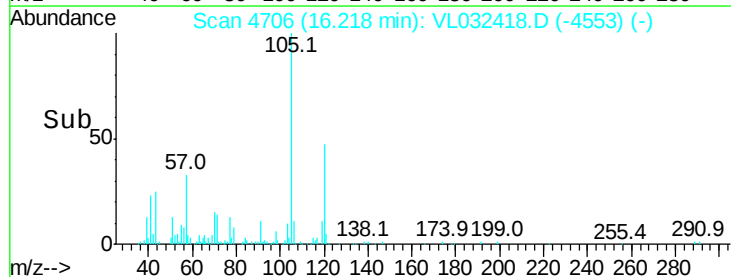
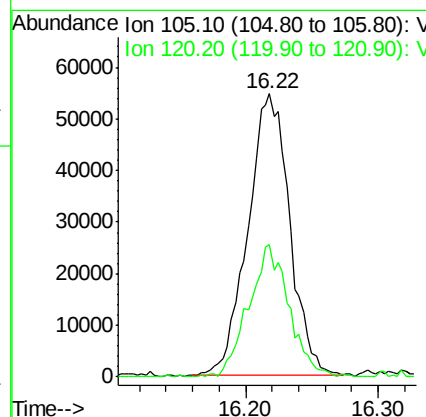
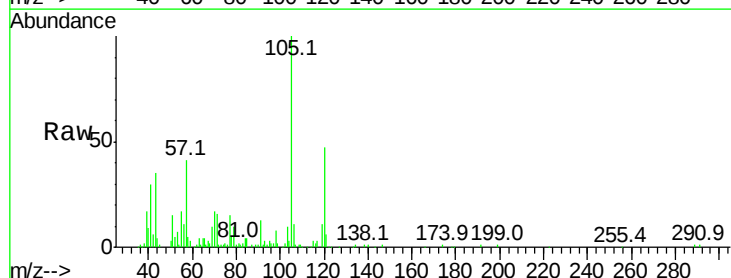
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

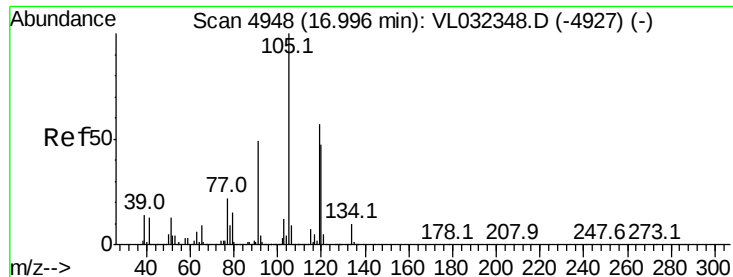
Tgt Ion: 91 Resp: 20031  
Ion Ratio Lower Upper  
91 100  
92 55.9 43.9 65.9  
134 0.0 17.3 25.9#



#73  
1,3,5-Trimethylbenzene  
Concen: 0.330 ppbv  
RT: 16.22 min Scan# 4706  
Delta R.T. -0.01 min  
Lab File: VL032418.D  
Acq: 21 Aug 2018 10:55

Tgt Ion:105 Resp: 119135  
Ion Ratio Lower Upper  
105 100  
120 47.0 36.3 54.5





#74

1,2,4-Trimethylbenzene

Concen: 0.419 ppbv

RT: 16.98 min Scan# 4944

Delta R.T. -0.01 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 160771

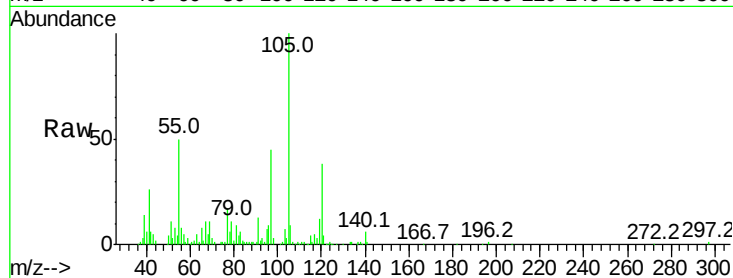
Ion Ratio Lower Upper

105 100

120 37.9 37.6 56.4

91 12.0 39.9 59.9#

77 16.3 17.8 26.8#

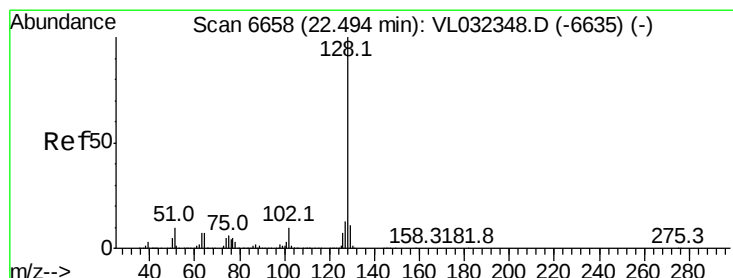
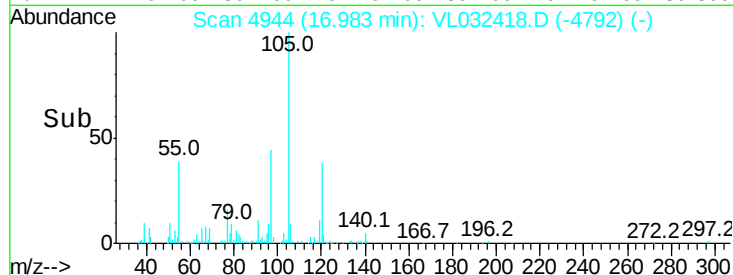
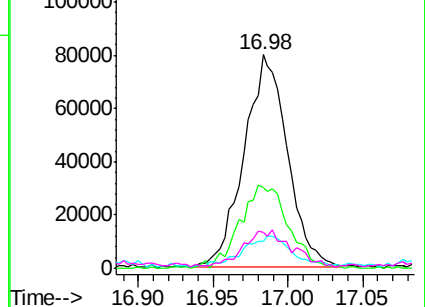


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.402 ppbv

RT: 22.48 min Scan# 6653

Delta R.T. -0.02 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

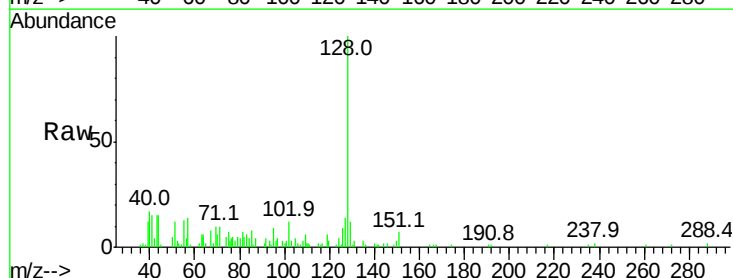
Tgt Ion:128 Resp: 27559

Ion Ratio Lower Upper

128 100

127 14.8 10.3 15.5

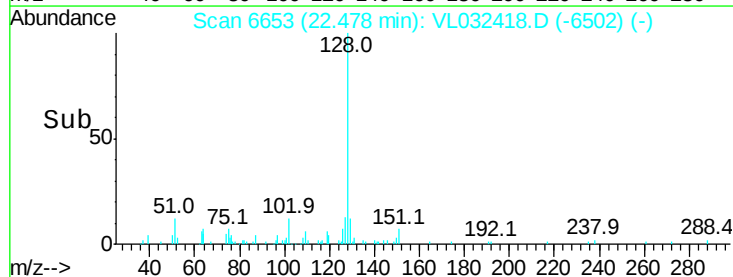
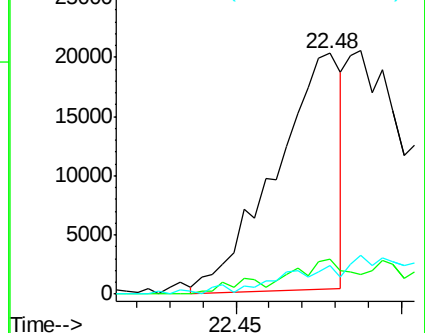
129 11.1 8.6 13.0

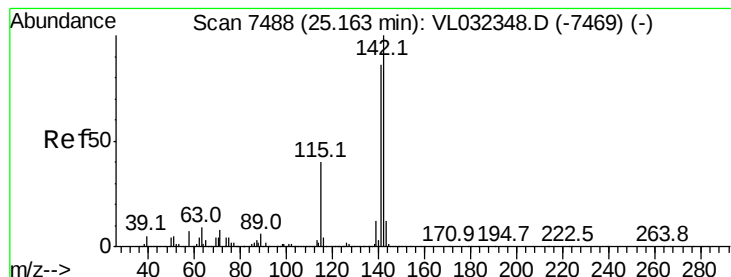


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.070 ppbv

RT: 25.16 min Scan# 7487

Delta R.T. -0.00 min

Lab File: VL032418.D

Acq: 21 Aug 2018 10:55

Instrument :

MSVOA\_L

ClientSampleId :

IA1

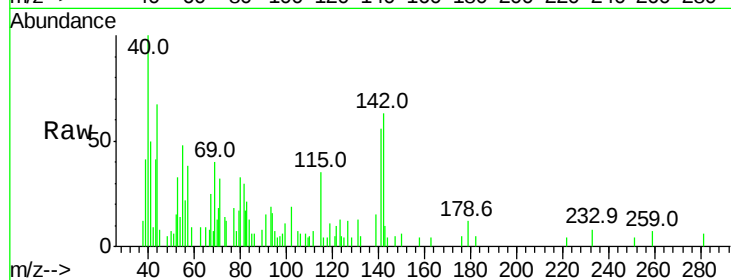
Tgt Ion:142 Resp: 5336

Ion Ratio Lower Upper

142 100

141 93.1 66.7 100.1

115 63.7 31.0 46.6#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

