

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL062918\  
 Data File : VL032161.D  
 Acq On : 30 Jun 2018 8:34  
 Operator : SY/AP  
 Sample : J3601-03  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DUPE

Quant Time: Jul 02 00:49:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
 QLast Update : Fri Jun 29 22:27:58 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.84  | 49   | 1666264  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.38  | 114  | 3536292  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.34 | 117  | 3455125  | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.68  | 95    | 2587174  | 9.80     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.00% |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.13  | 85   | 59959    | 0.273  | ppbv   | 92     |
| 3) Chlorodifluoromethane       | 3.04  | 51   | 2190962  | 10.761 | ppbv # | 65     |
| 4) Chloromethane               | 3.23  | 50   | 58985    | 0.543  | ppbv   | 95     |
| 9) Propene                     | 3.30  | 41   | 218320   | 2.301  | ppbv   | 88     |
| 10) Heptane                    | 8.34  | 43   | 94244    | 0.341  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 4.07  | 101  | 64724    | 0.273  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.63  | 101  | 5788     | 0.037  | ppbv # | 19     |
| 13) Ethanol                    | 3.73  | 45   | 1704600  | 59.258 | ppbv   | 100    |
| 15) Acetone                    | 3.96  | 43   | 3316143  | 17.020 | ppbv   | 93     |
| 16) 1,3-Butadiene              | 3.40  | 39   | 19992    | 0.215  | ppbv # | 11     |
| 17) tert-Butyl alcohol         | 4.44  | 59   | 13723    | 0.111  | ppbv # | 73     |
| 19) Isopropyl Alcohol          | 4.12  | 45   | 130261   | 0.805  | ppbv # | 38     |
| 20) Methylene Chloride         | 4.48  | 84   | 421017   | 5.913  | ppbv   | 95     |
| 21) Allyl Chloride             | 4.49  | 41   | 6408     | 0.048  | ppbv # | 21     |
| 23) Vinyl Acetate              | 5.23  | 43   | 128878   | 0.365  | ppbv # | 40     |
| 25) Ethyl Acetate              | 5.85  | 43   | 1332025  | 3.304  | ppbv   | 99     |
| 26) Hexane                     | 5.86  | 57   | 730068   | 3.933  | ppbv   | 89     |
| 27) Carbon Disulfide           | 4.70  | 76   | 17518    | 0.095  | ppbv # | 1      |
| 29) Chloroform                 | 5.93  | 83   | 198691   | 0.735  | ppbv   | 95     |
| 30) Cyclohexane                | 7.34  | 84   | 58128    | 0.332  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.85  | 61   | 115560   | 0.623  | ppbv # | 24     |
| 34) 2-Butanone                 | 5.41  | 43   | 262467   | 1.169  | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.22  | 117  | 11552    | 0.048  | ppbv   | 89     |
| 36) Benzene                    | 7.10  | 78   | 86706    | 0.253  | ppbv # | 91     |
| 37) 1,2-Dichloroethane         | 6.50  | 62   | 54122    | 0.317  | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.38  | 63   | 916095   | 6.786  | ppbv # | 27     |
| 41) Tetrahydrofuran            | 6.24  | 42   | 19296    | 0.143  | ppbv # | 12     |
| 44) 2,2,4-Trimethylpentane     | 8.08  | 57   | 88735    | 0.148  | ppbv # | 69     |
| 50) 4-Methyl-2-Pentanone       | 8.98  | 43   | 49550    | 0.135  | ppbv # | 45     |
| 52) Tetrachloroethene          | 11.46 | 164  | 5094     | 0.041  | ppbv   | 90     |
| 53) Toluene                    | 10.04 | 91   | 1537869  | 3.717  | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.96 | 91   | 346927   | 0.623  | ppbv   | 92     |
| 59) m/p-Xylene                 | 13.22 | 91   | 819227   | 1.835  | ppbv   | 97     |
| 60) o-Xylene                   | 13.94 | 91   | 350135   | 0.787  | ppbv   | 95     |
| 61) Styrene                    | 13.78 | 104  | 68774    | 0.189  | ppbv   | 94     |
| 64) n-propylbenzene            | 15.83 | 120  | 8733     | 0.049  | ppbv # | 22     |
| 72) 4-Ethyltoluene             | 16.09 | 105  | 23594    | 0.041  | ppbv # | 28     |
| 73) 1,3,5-Trimethylbenzene     | 16.25 | 105  | 36412    | 0.067  | ppbv # | 81     |
| 74) 1,2,4-Trimethylbenzene     | 17.02 | 105  | 106979   | 0.196  | ppbv # | 74     |
| 80) Naphthalene,2-methyl-      | 25.20 | 142  | 14735    | 0.082  | ppbv # | 89     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL062918\  
Data File : VL032161.D  
Acq On : 30 Jun 2018 8:34  
Operator : SY/AP  
Sample : J3601-03  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

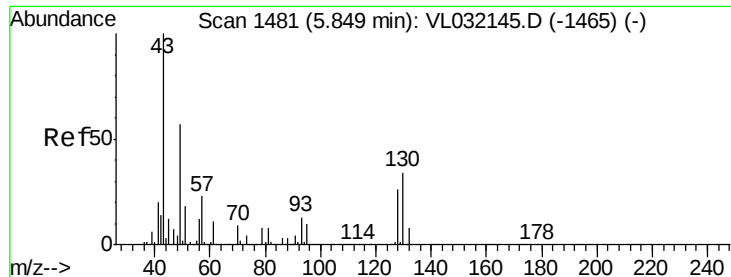
Instrument :  
MSVOA\_L  
ClientSampleId :  
DUPE

Quant Time: Jul 02 00:49:04 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
QLast Update : Fri Jun 29 22:27:58 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

DUPE

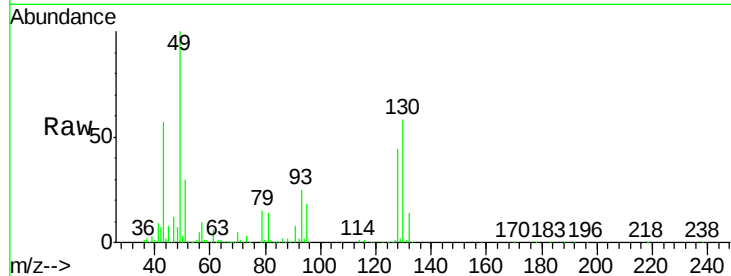
Tgt Ion: 49 Resp: 1666264

Ion Ratio Lower Upper

49 100

128 44.8 23.4 70.0

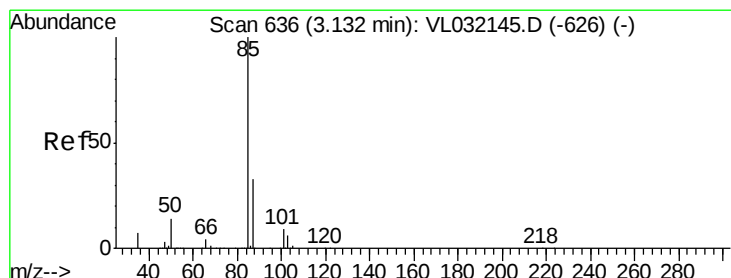
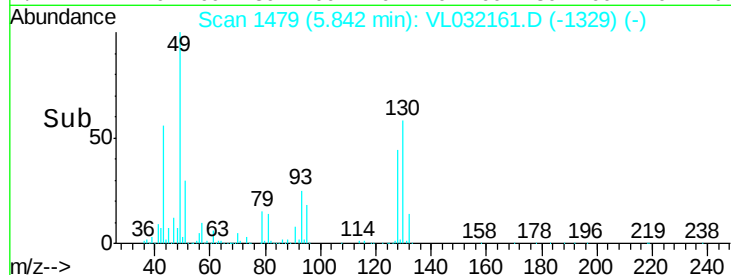
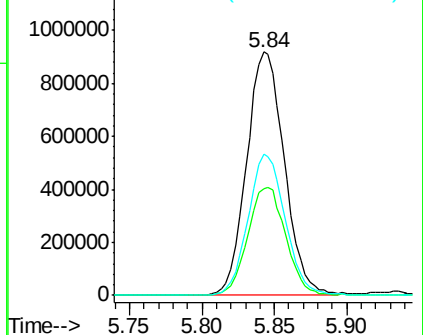
130 57.4 30.3 90.9



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: 0.273 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032161.D

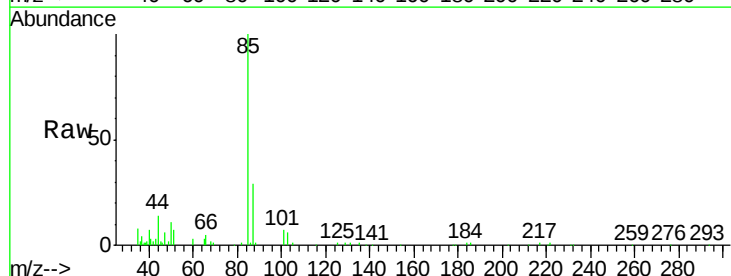
Acq: 30 Jun 2018 8:34

Tgt Ion: 85 Resp: 59959

Ion Ratio Lower Upper

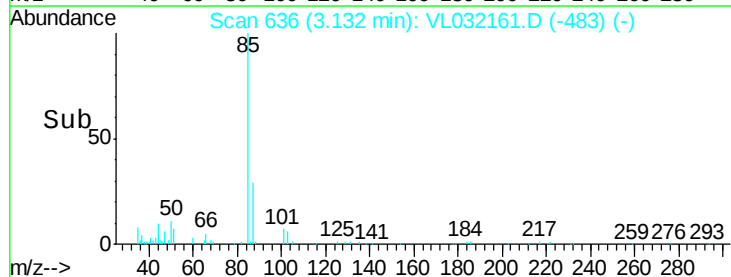
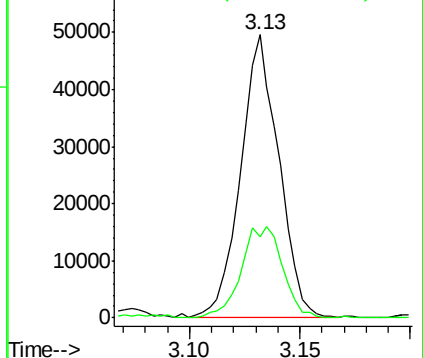
85 100

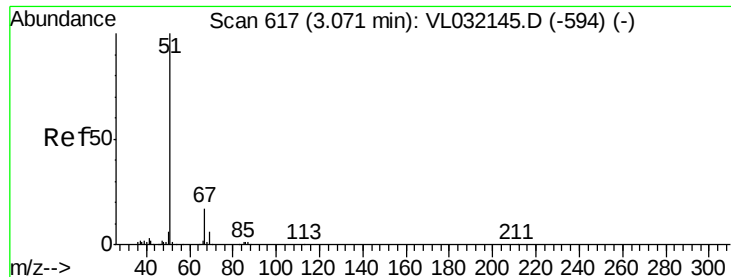
87 28.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.761 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.04 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

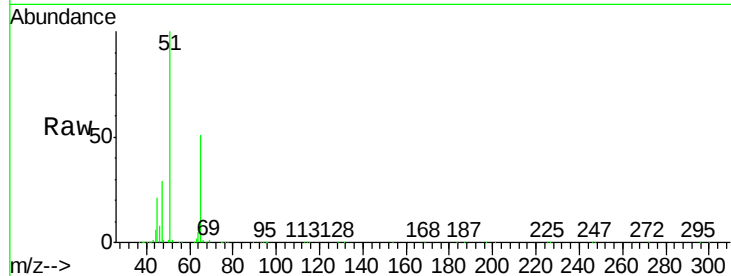
DUPE

Tgt Ion: 51 Resp: 2190962

Ion Ratio Lower Upper

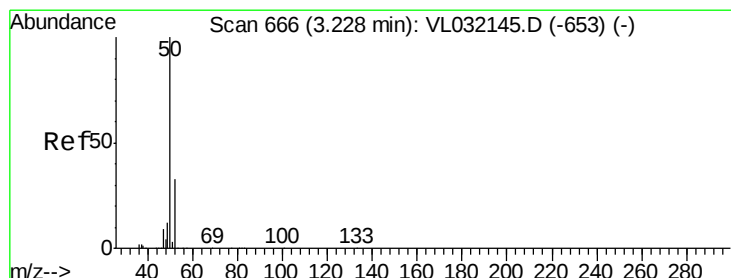
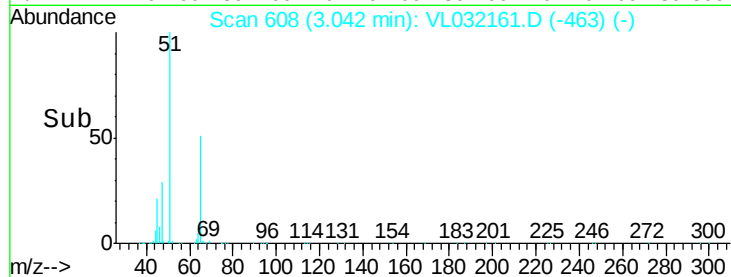
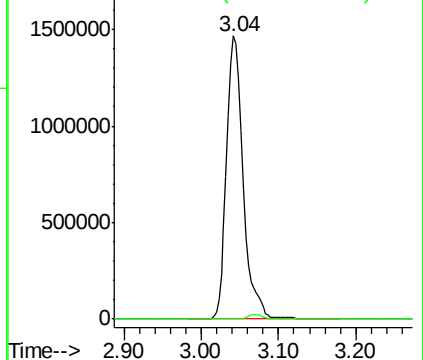
51 100

67 1.4 13.2 19.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.543 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032161.D

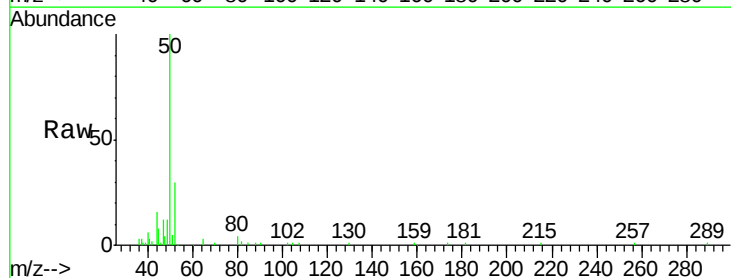
Acq: 30 Jun 2018 8:34

Tgt Ion: 50 Resp: 58985

Ion Ratio Lower Upper

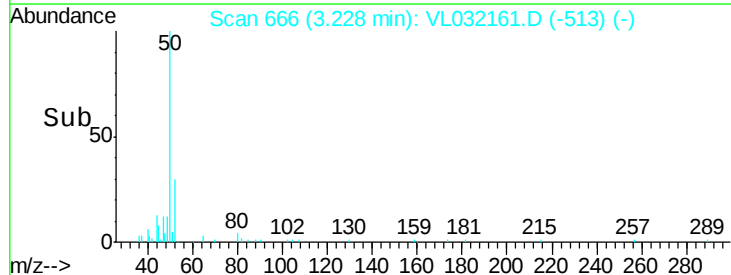
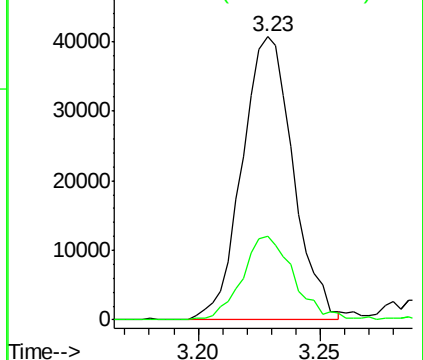
50 100

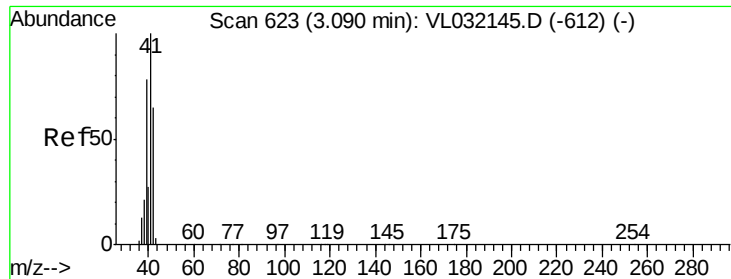
52 29.6 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.301 ppbv

RT: 3.30 min Scan# 687

Delta R.T. 0.20 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

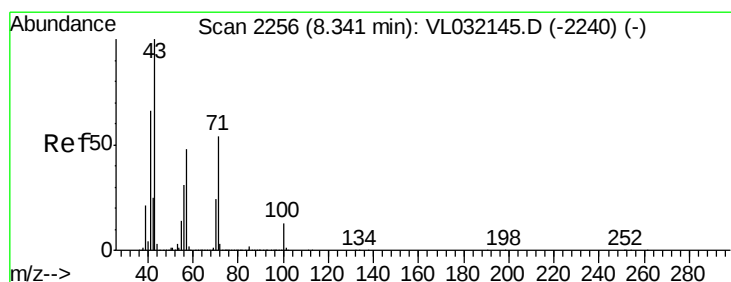
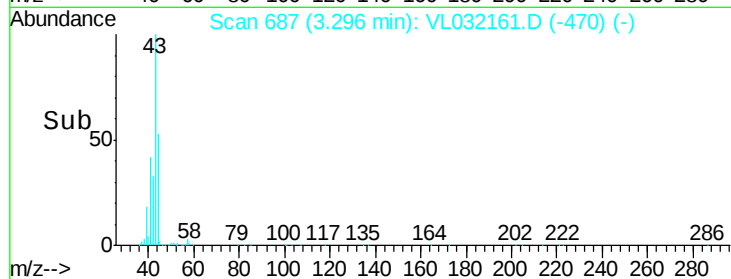
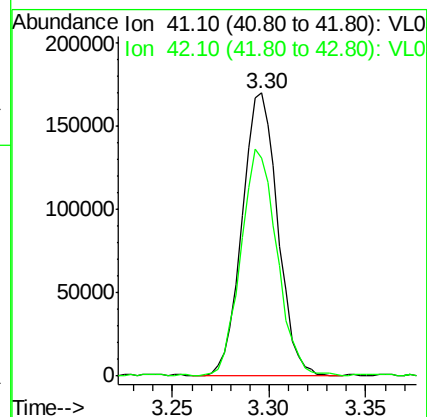
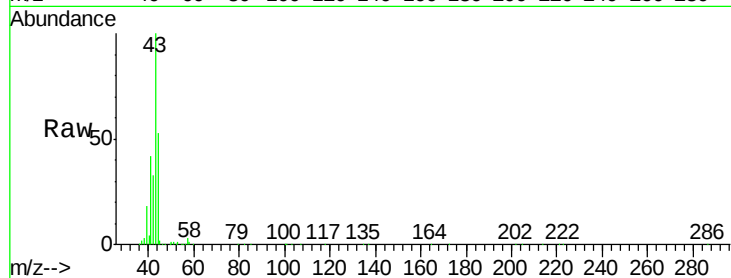
DUPE

Tgt Ion: 41 Resp: 218320

Ion Ratio Lower Upper

41 100

42 80.1 56.2 84.4



#10

Heptane

Concen: 0.341 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032161.D

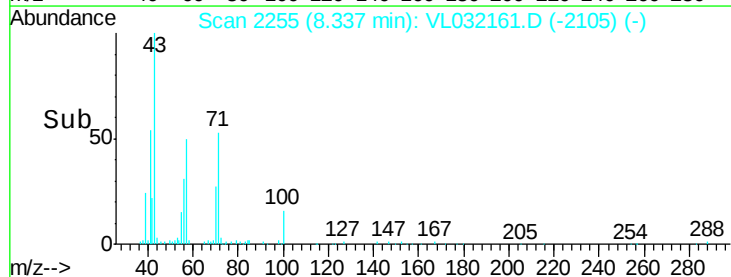
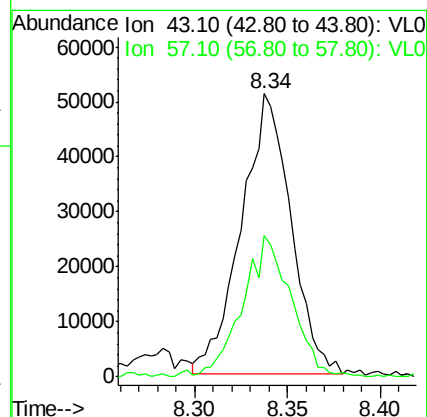
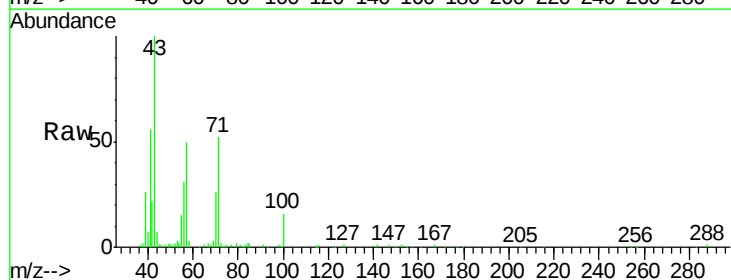
Acq: 30 Jun 2018 8:34

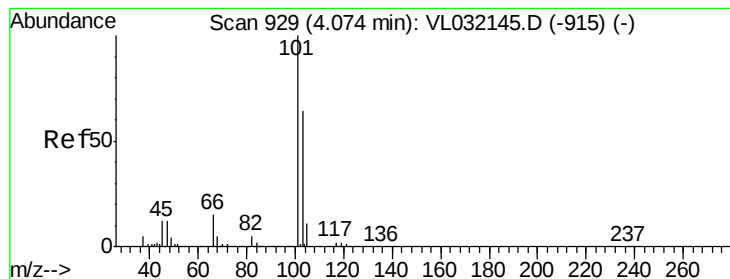
Tgt Ion: 43 Resp: 94244

Ion Ratio Lower Upper

43 100

57 50.6 39.8 59.8





#11

Trichlorofluoromethane

Concen: 0.273 ppbv

RT: 4.07 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

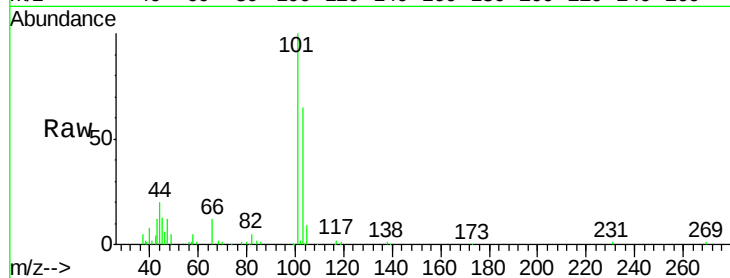
DUPE

Tgt Ion:101 Resp: 64724

Ion Ratio Lower Upper

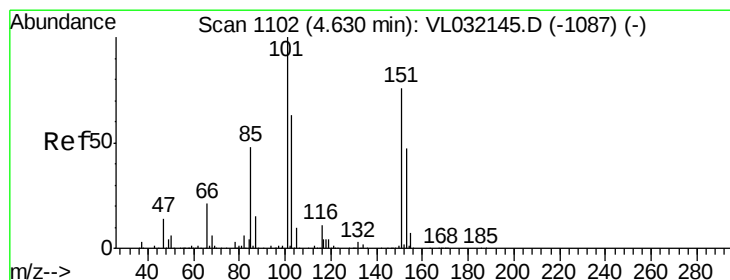
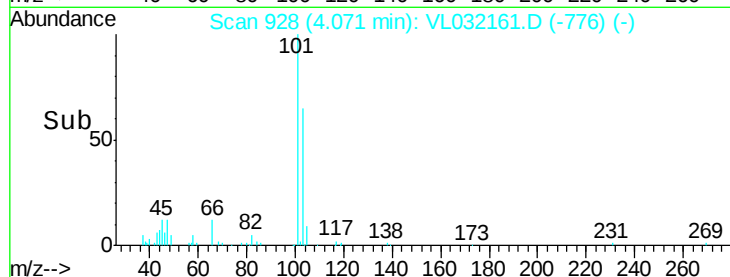
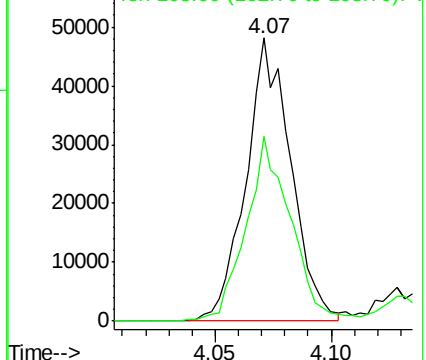
101 100

103 64.3 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: 0.037 ppbv

RT: 4.63 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VL032161.D

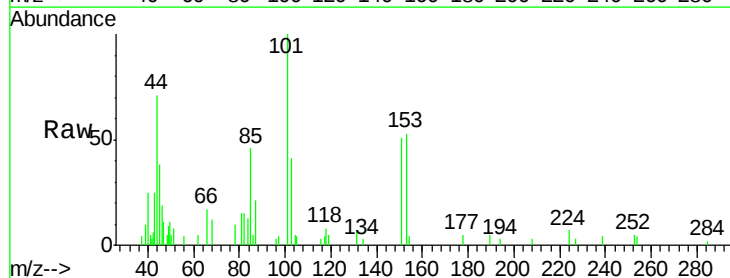
Acq: 30 Jun 2018 8:34

Tgt Ion:101 Resp: 5788

Ion Ratio Lower Upper

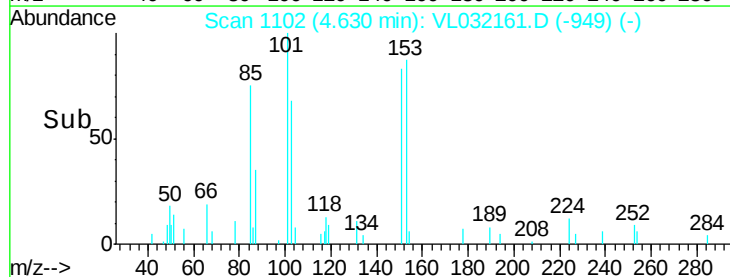
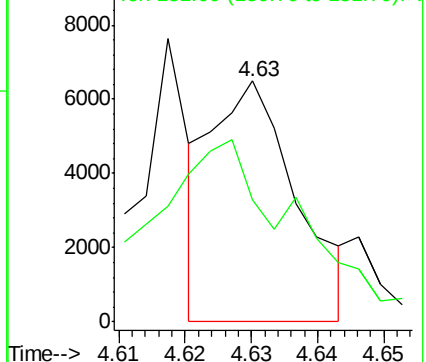
101 100

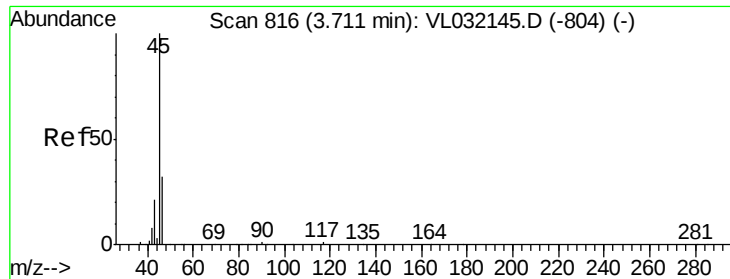
151 141.6 58.8 88.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 59.258 ppbv

RT: 3.73 min Scan# 822

Delta R.T. 0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

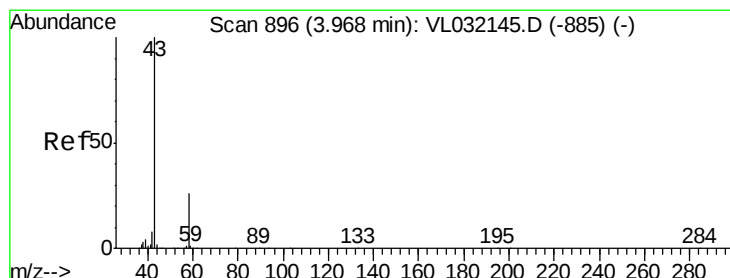
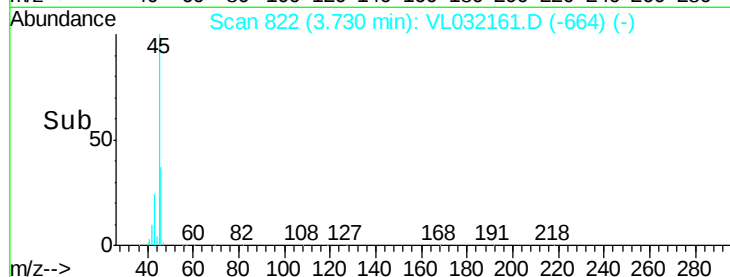
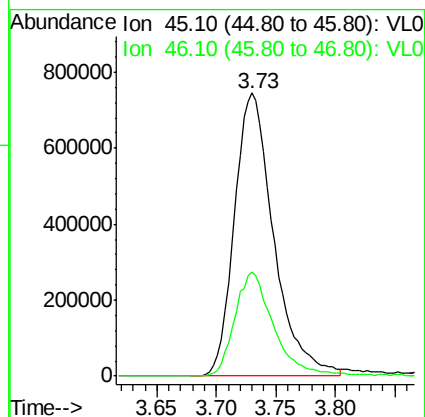
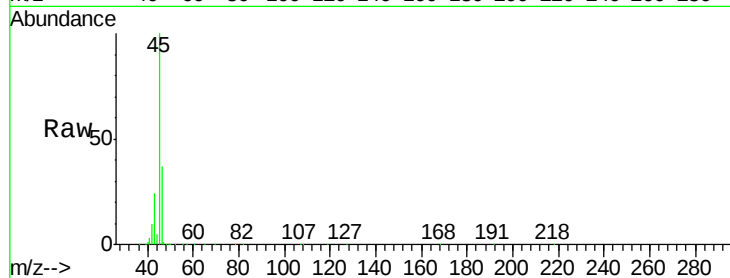
DUPE

Tgt Ion: 45 Resp: 1704600

Ion Ratio Lower Upper

45 100

46 36.8 14.6 58.4



#15

Acetone

Concen: 17.020 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032161.D

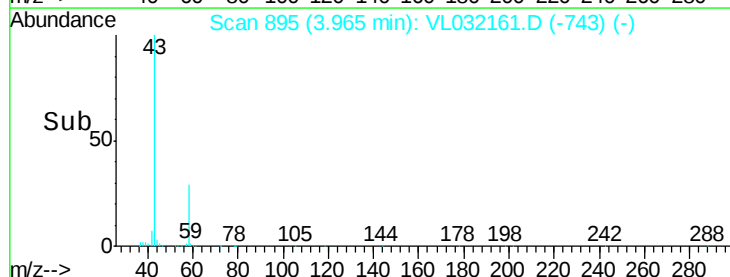
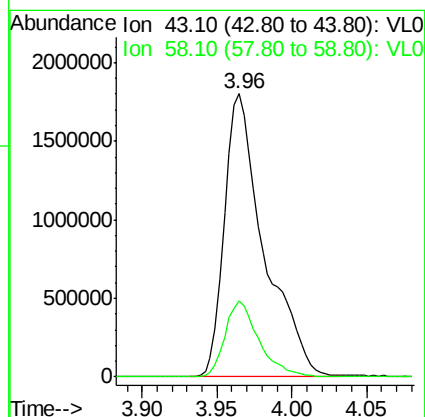
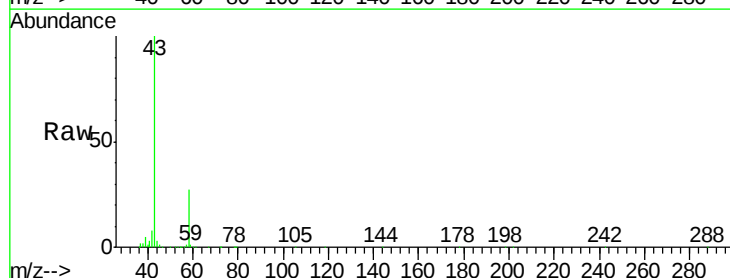
Acq: 30 Jun 2018 8:34

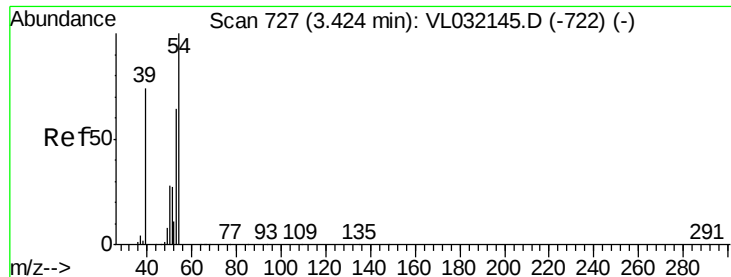
Tgt Ion: 43 Resp: 3316143

Ion Ratio Lower Upper

43 100

58 23.2 21.4 32.0





#16

1,3-Butadiene

Concen: 0.215 ppbv

RT: 3.40 min Scan# 719

Delta R.T. -0.03 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

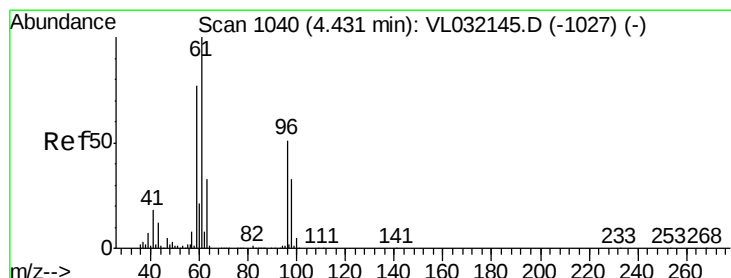
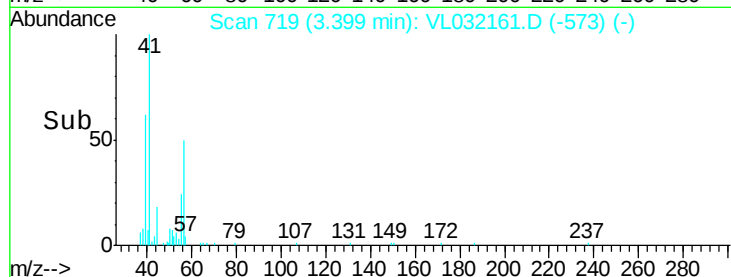
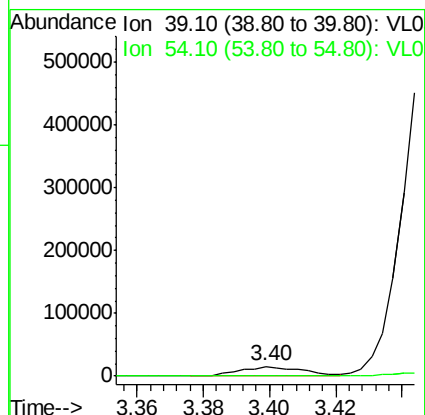
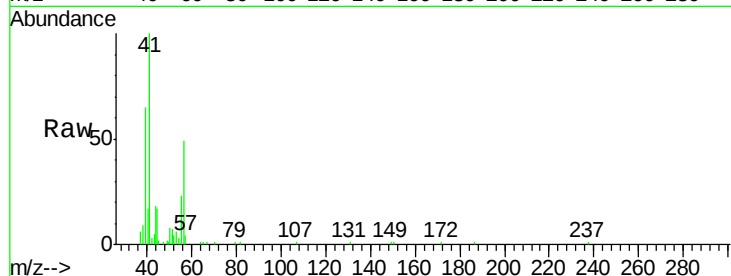
DUPE

Tgt Ion: 39 Resp: 19992

Ion Ratio Lower Upper

39 100

54 8.0 75.8 113.6#



#17

tert-Butyl alcohol

Concen: 0.111 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VL032161.D

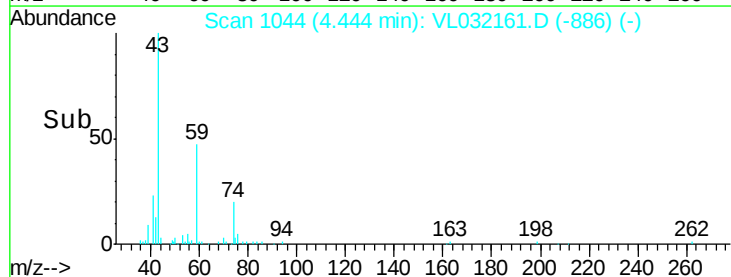
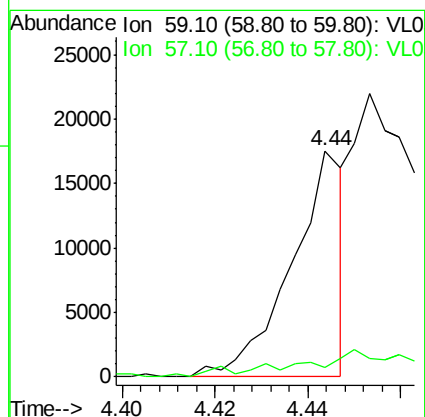
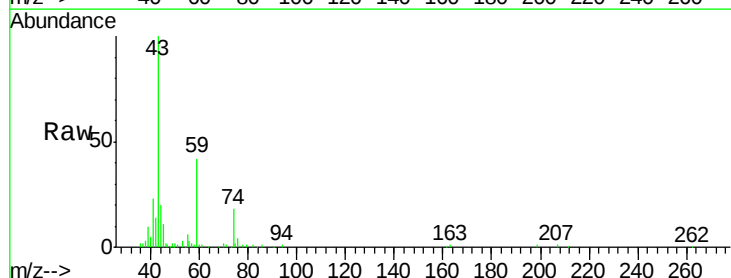
Acq: 30 Jun 2018 8:34

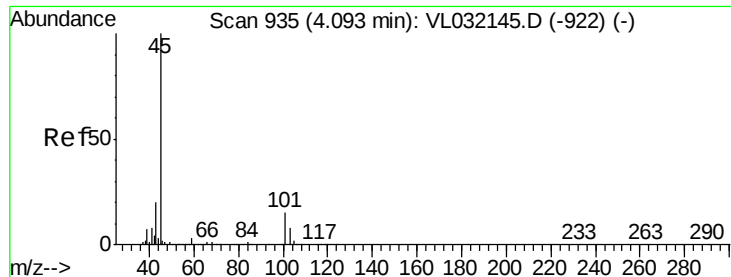
Tgt Ion: 59 Resp: 13723

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#19

Isopropyl Alcohol

Concen: 0.805 ppbv

RT: 4.12 min Scan# 943

Delta R.T. 0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

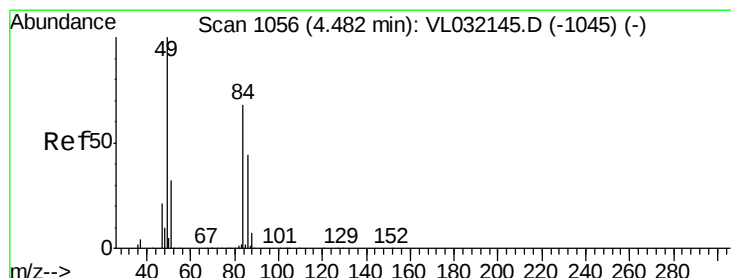
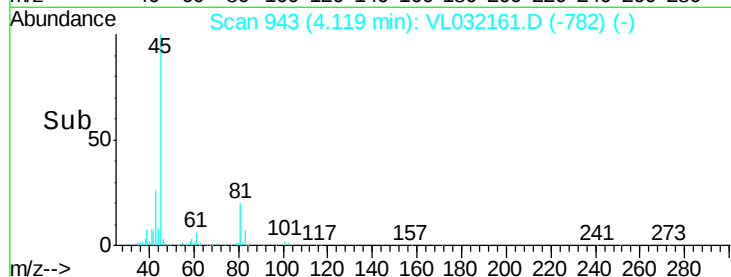
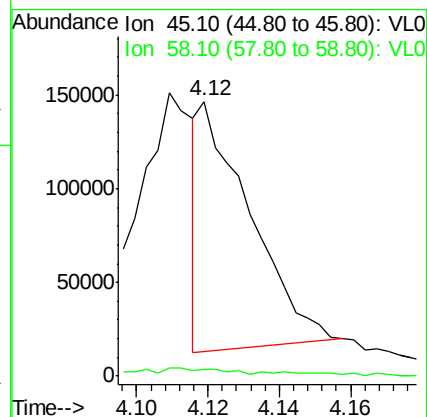
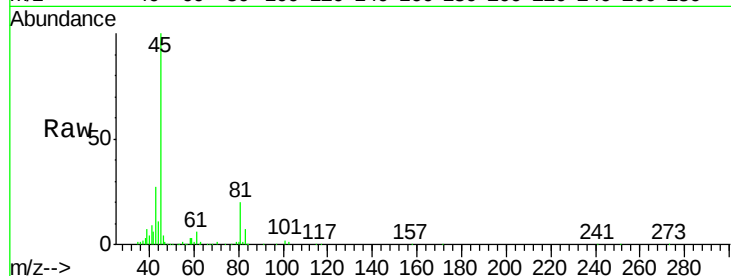
DUPE

Tgt Ion: 45 Resp: 130261

Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.0#



#20

Methylene Chloride

Concen: 5.913 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Tgt Ion: 84 Resp: 421017

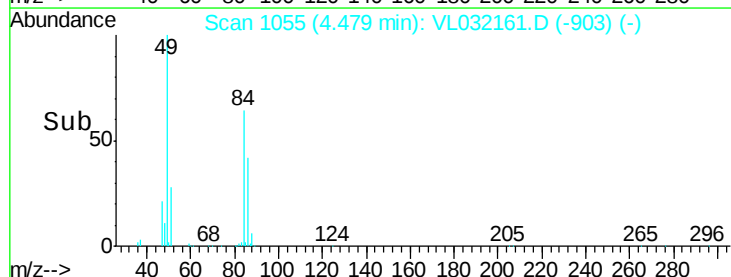
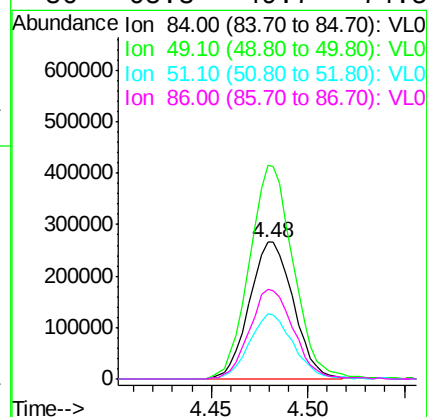
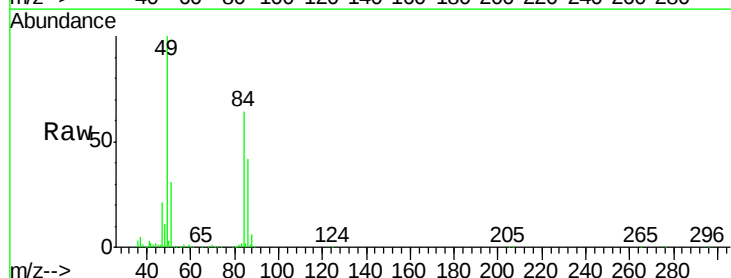
Ion Ratio Lower Upper

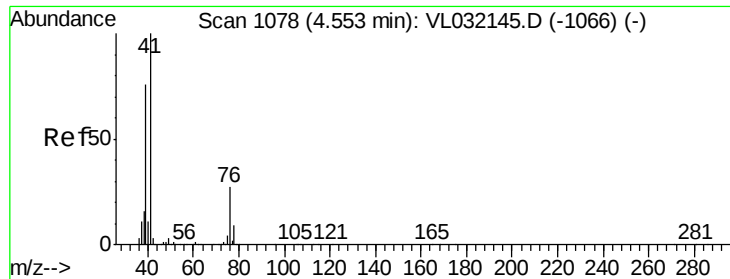
84 100

49 156.2 119.6 179.4

51 47.8 36.3 54.5

86 65.3 49.7 74.5

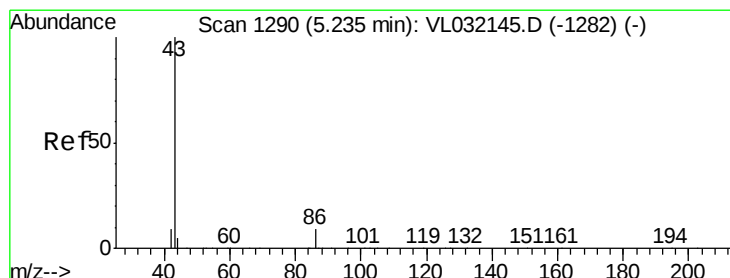
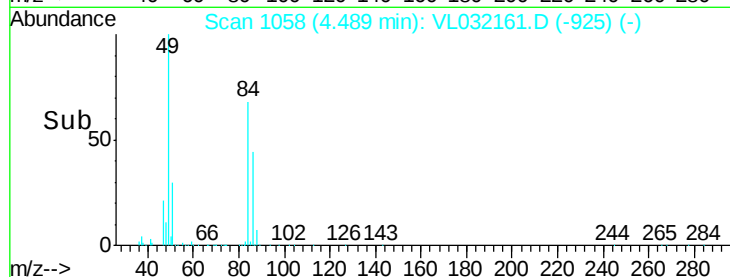
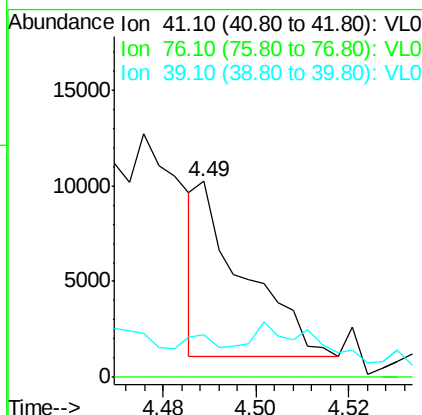
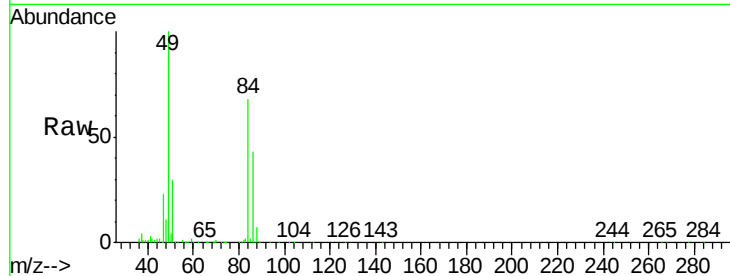




#21  
 Allyl Chloride  
 Concen: 0.048 ppbv  
 RT: 4.49 min Scan# 1058  
 Delta R.T. -0.07 min  
 Lab File: VL032161.D  
 Acq: 30 Jun 2018 8:34

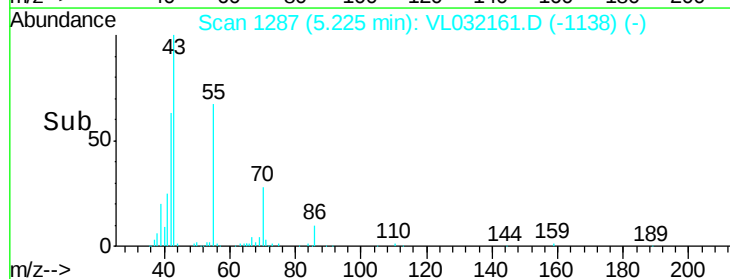
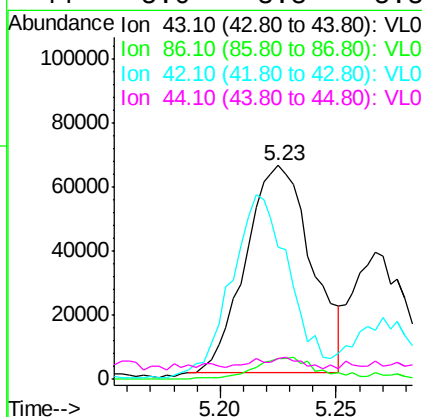
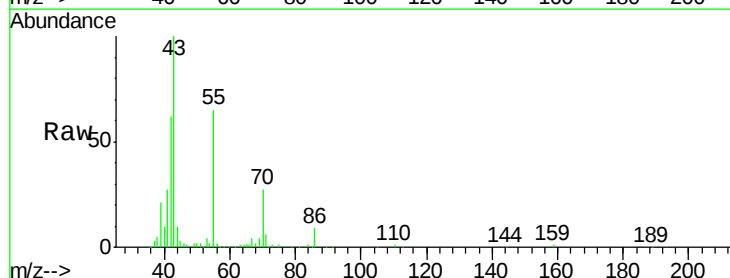
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DUPE

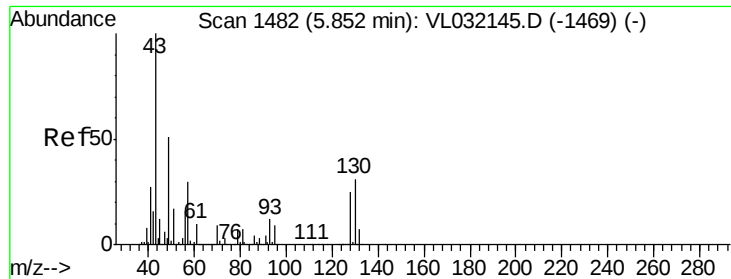
Tgt Ion: 41 Resp: 6408  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 22.5 33.7#  
 39 0.0 60.5 90.7#



#23  
 Vinyl Acetate  
 Concen: 0.365 ppbv  
 RT: 5.23 min Scan# 1287  
 Delta R.T. -0.02 min  
 Lab File: VL032161.D  
 Acq: 30 Jun 2018 8:34

Tgt Ion: 43 Resp: 128878  
 Ion Ratio Lower Upper  
 43 100  
 86 9.8 6.2 9.4#  
 42 59.6 6.9 10.3#  
 44 5.0 3.8 5.8



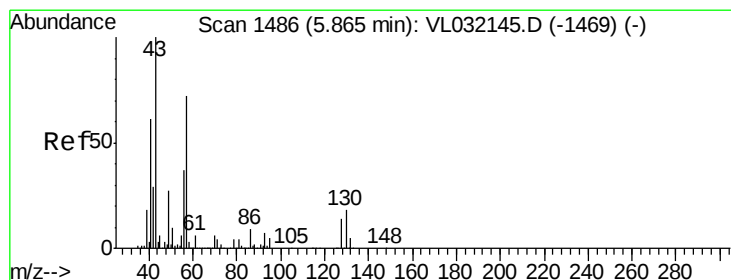
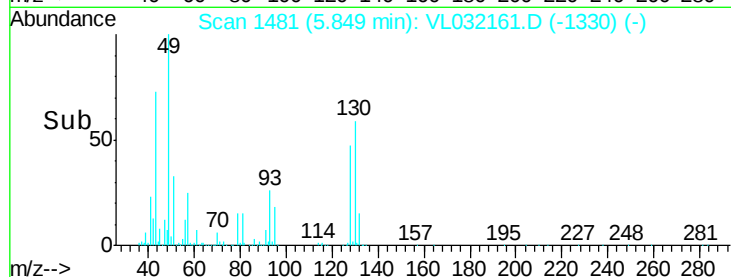
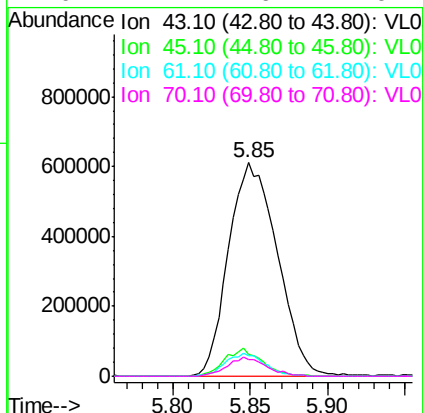
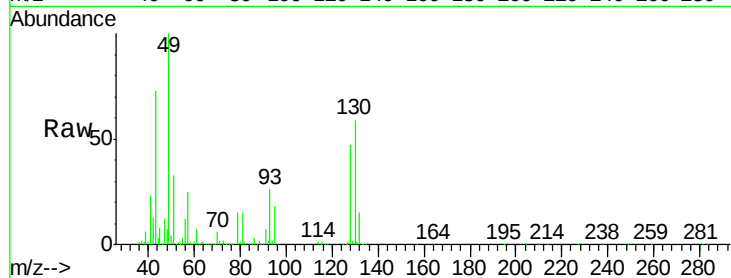


#25  
Ethyl Acetate  
Concen: 3.304 ppbv  
RT: 5.85 min Scan# 1481  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
DUPE

Tgt Ion: 43 Resp: 1332025

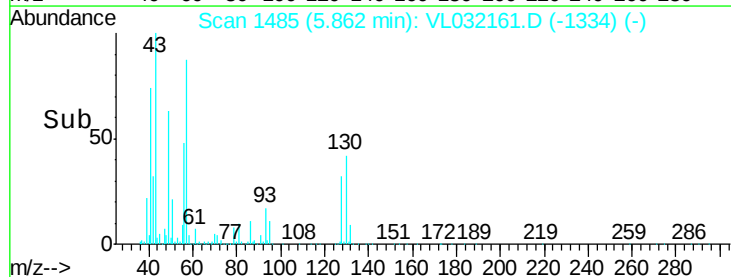
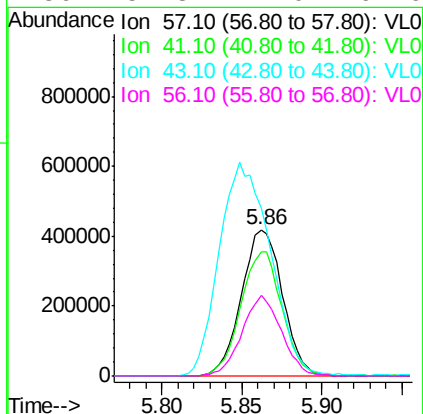
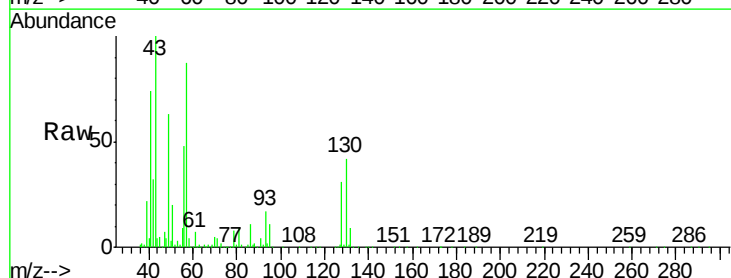
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 7.8   | 11.8  |
| 61  | 8.7   | 7.4   | 11.0  |
| 70  | 7.2   | 6.1   | 9.1   |

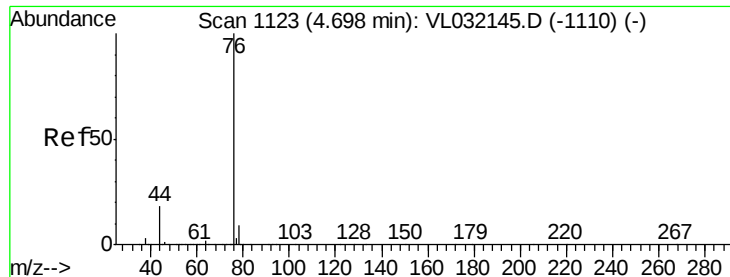


#26  
Hexane  
Concen: 3.933 ppbv  
RT: 5.86 min Scan# 1485  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

Tgt Ion: 57 Resp: 730068

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 86.1  | 68.6  | 103.0 |
| 43  | 183.9 | 168.6 | 252.8 |
| 56  | 52.8  | 41.0  | 61.6  |





#27

Carbon Disulfide

Concen: 0.095 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

DUPE

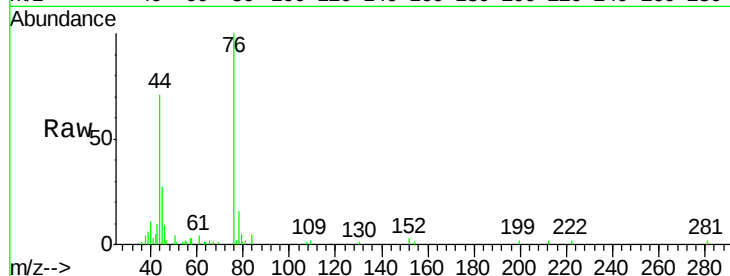
Tgt Ion: 76 Resp: 17518

Ion Ratio Lower Upper

76 100

44 101.3 15.1 22.7#

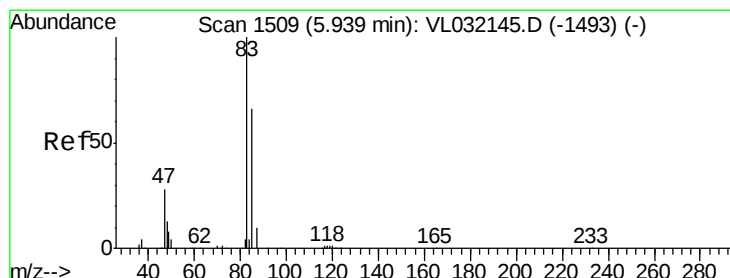
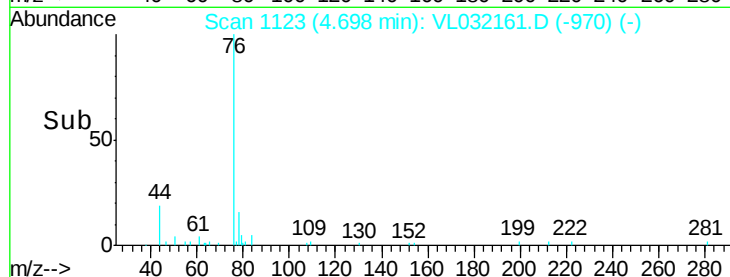
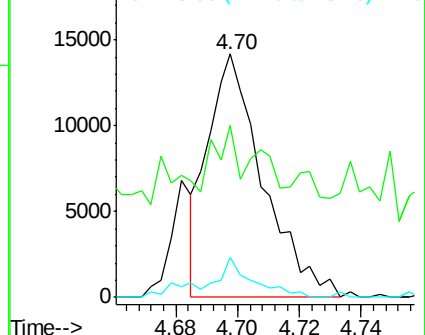
78 13.7 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.735 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VL032161.D

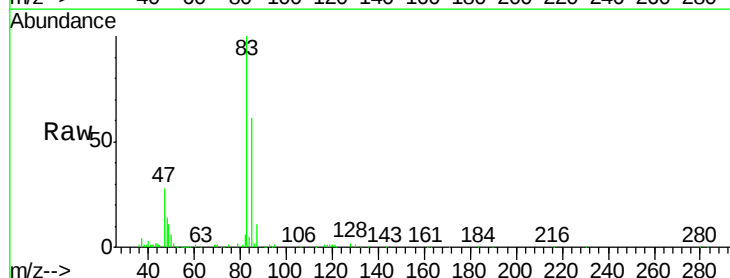
Acq: 30 Jun 2018 8:34

Tgt Ion: 83 Resp: 198691

Ion Ratio Lower Upper

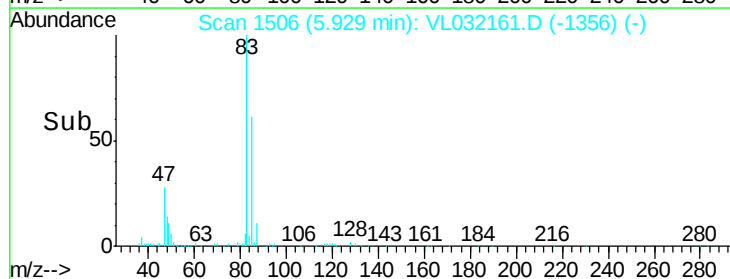
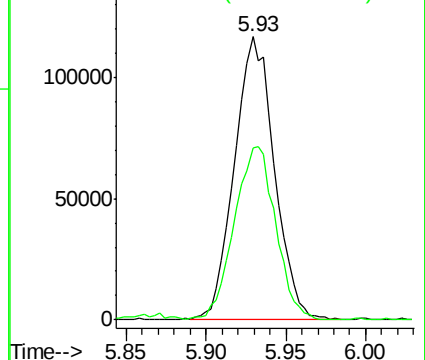
83 100

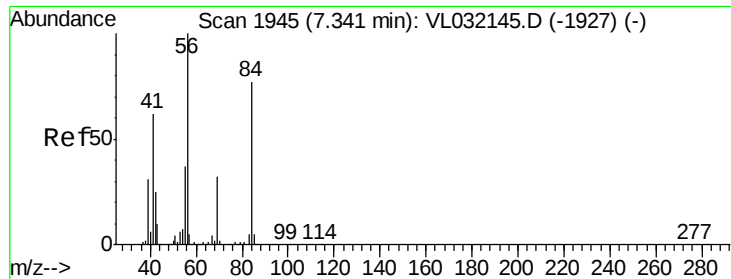
85 60.9 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

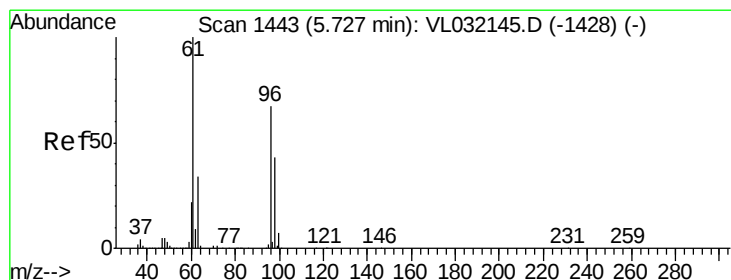
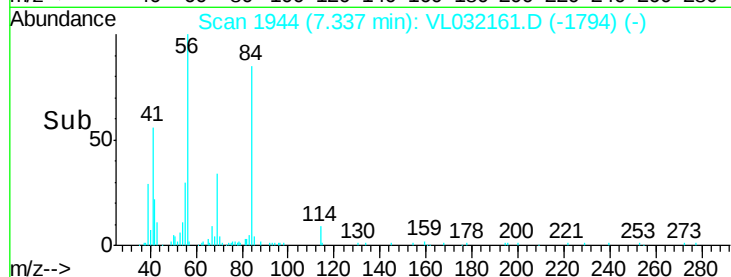
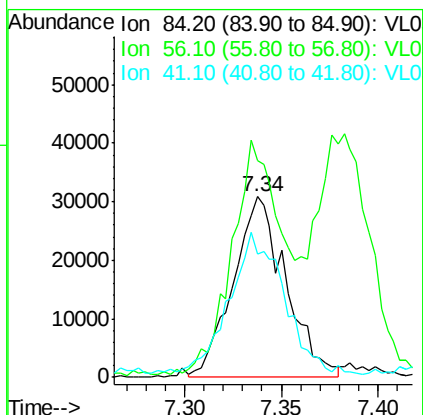
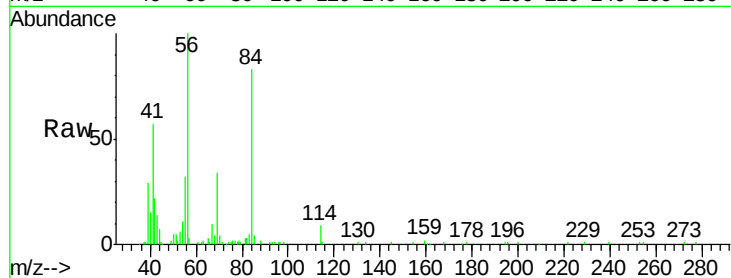




#30  
Cyclohexane  
Concen: 0.332 ppbv  
RT: 7.34 min Scan# 1944  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

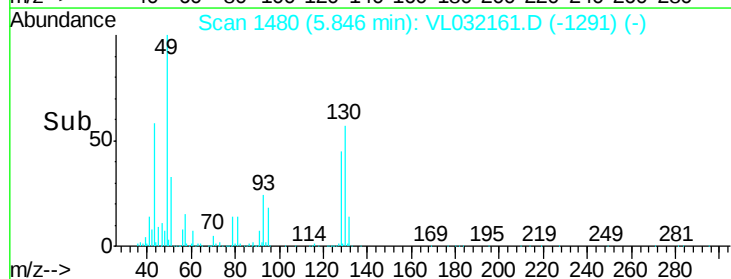
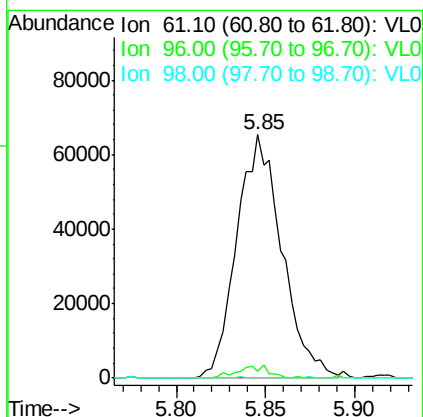
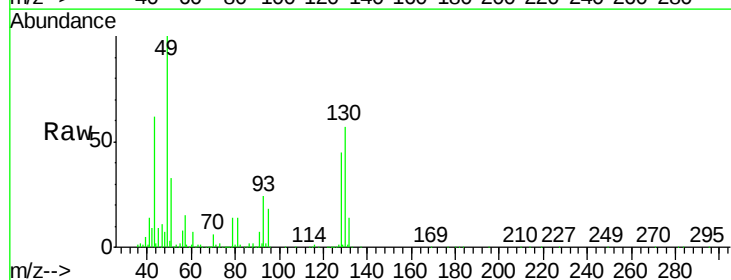
Instrument :  
MSVOA\_L  
ClientSampleId :  
DUPE

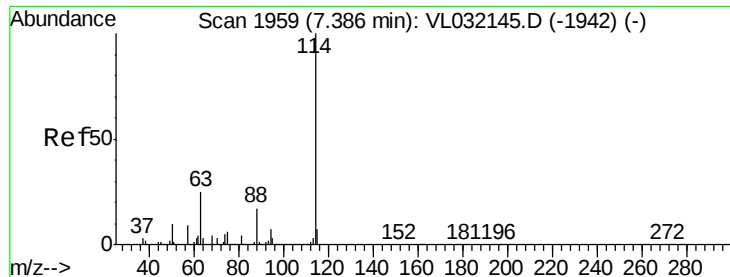
Tgt Ion: 84 Resp: 58128  
Ion Ratio Lower Upper  
84 100  
56 134.1 109.1 163.7  
41 81.2 64.6 96.8



#31  
cis-1,2-Dichloroethene  
Concen: 0.623 ppbv  
RT: 5.85 min Scan# 1480  
Delta R.T. 0.11 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

Tgt Ion: 61 Resp: 115560  
Ion Ratio Lower Upper  
61 100  
96 2.7 54.2 81.4#  
98 0.0 34.6 52.0#

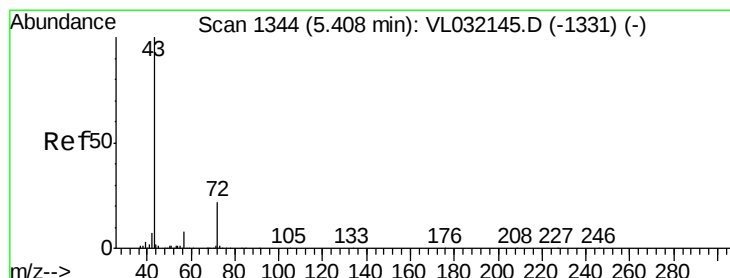
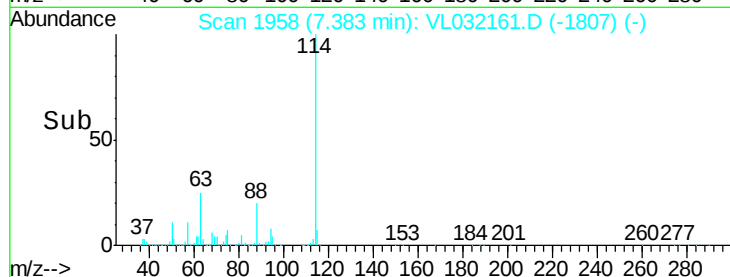
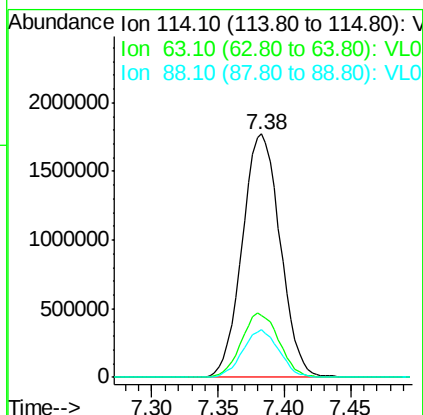
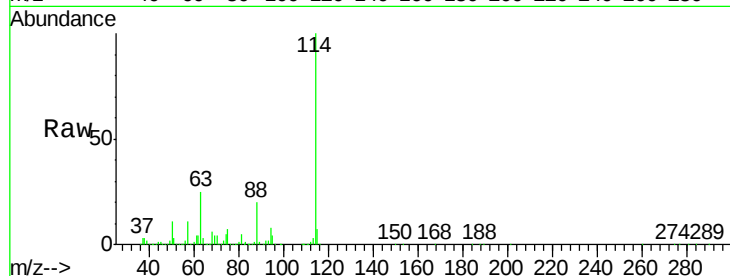




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.38 min Scan# 1958  
 Delta R.T. -0.02 min  
 Lab File: VL032161.D  
 Acq: 30 Jun 2018 8:34

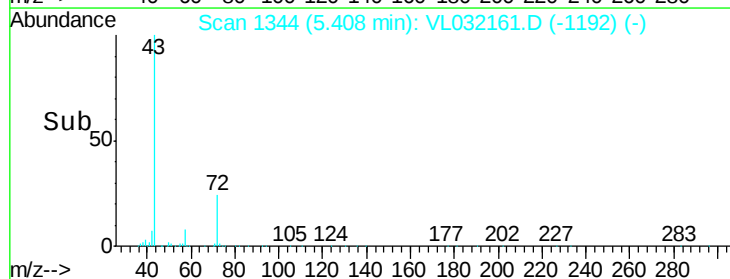
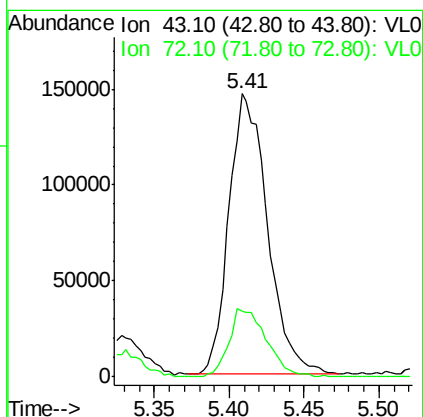
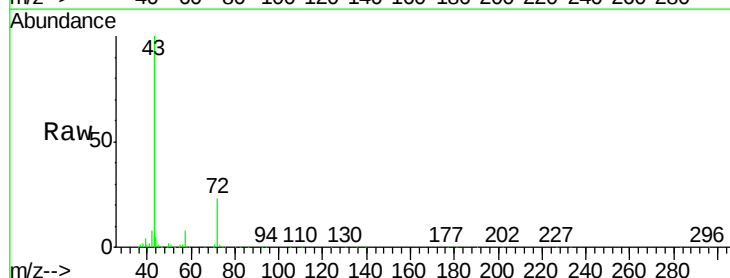
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DUPE

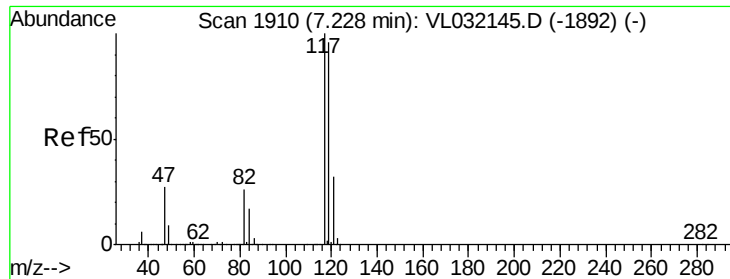
Tgt Ion: 114 Resp: 3536292  
 Ion Ratio Lower Upper  
 114 100  
 63 26.2 19.1 28.7  
 88 18.7 13.9 20.9



#34  
 2-Butanone  
 Concen: 1.169 ppbv  
 RT: 5.41 min Scan# 1344  
 Delta R.T. -0.01 min  
 Lab File: VL032161.D  
 Acq: 30 Jun 2018 8:34

Tgt Ion: 43 Resp: 262467  
 Ion Ratio Lower Upper  
 43 100  
 72 23.9 18.4 27.6

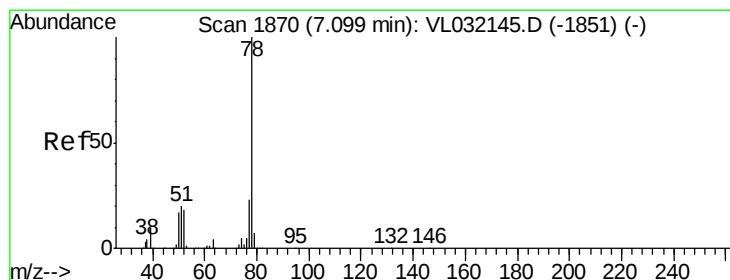
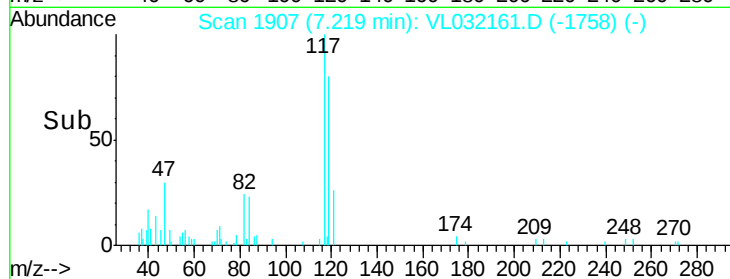
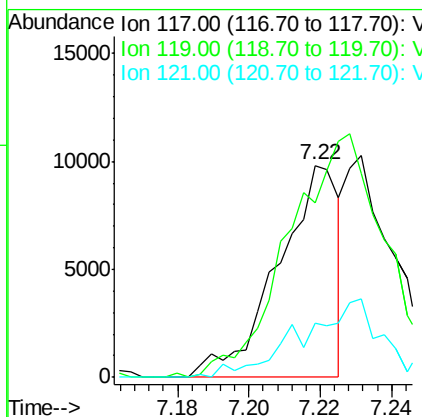
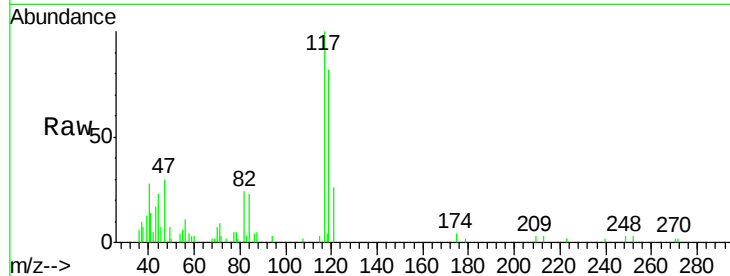




#35  
Carbon Tetrachloride  
Concen: 0.048 ppbv  
RT: 7.22 min Scan# 1907  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

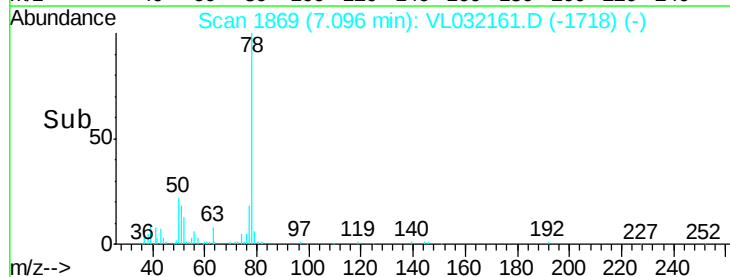
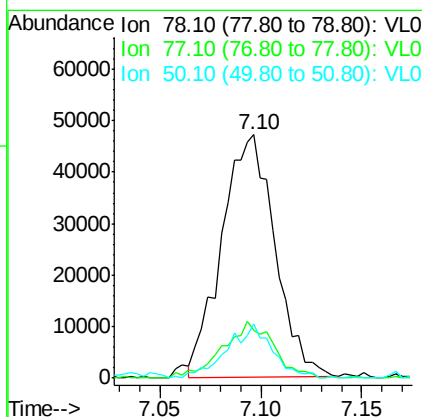
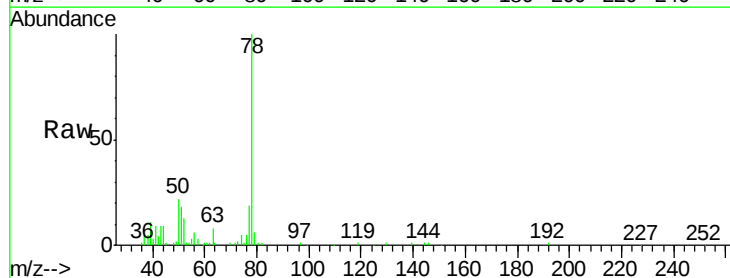
Instrument :  
MSVOA\_L  
ClientSampleId :  
DUPE

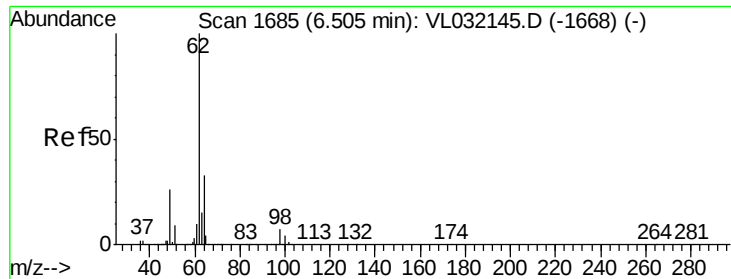
Tgt Ion: 117 Resp: 11552  
Ion Ratio Lower Upper  
117 100  
119 82.5 74.8 112.2  
121 25.8 24.0 36.0



#36  
Benzene  
Concen: 0.253 ppbv  
RT: 7.10 min Scan# 1869  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

Tgt Ion: 78 Resp: 86706  
Ion Ratio Lower Upper  
78 100  
77 18.7 17.7 26.5  
50 22.7 14.0 21.0#





#37

1,2-Dichloroethane

Concen: 0.317 ppbv

RT: 6.50 min Scan# 1682

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

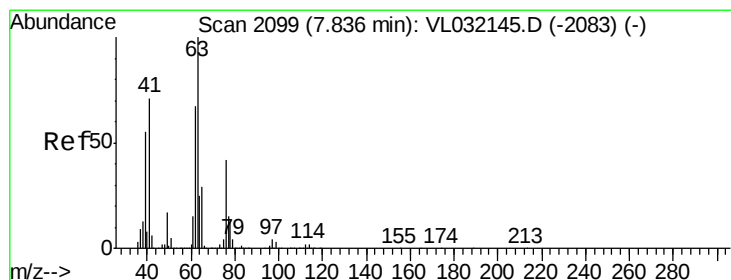
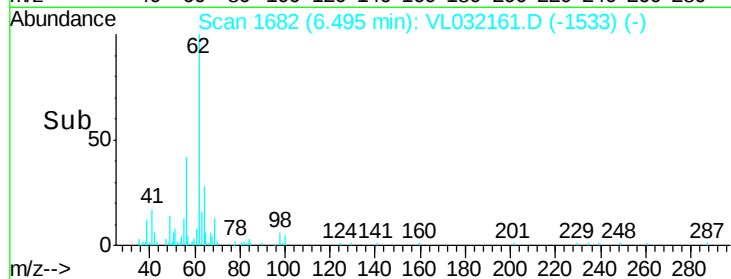
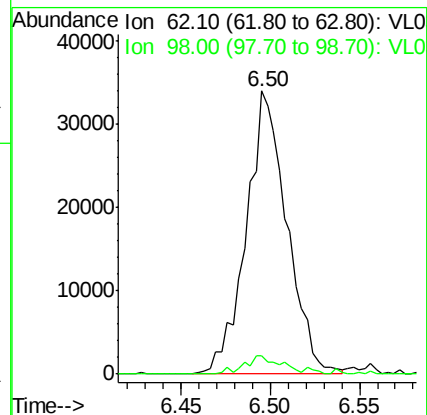
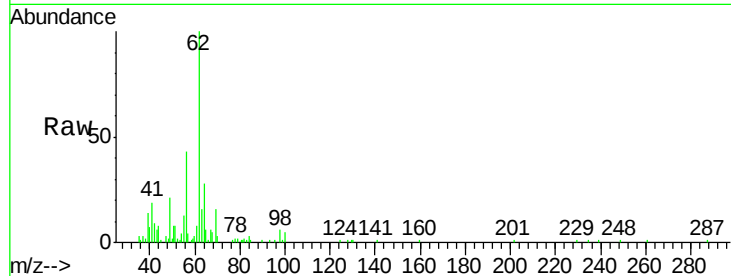
DUPE

Tgt Ion: 62 Resp: 54122

Ion Ratio Lower Upper

62 100

98 6.6 5.8 8.6



#39

1,2-Dichloropropane

Concen: 6.786 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.47 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

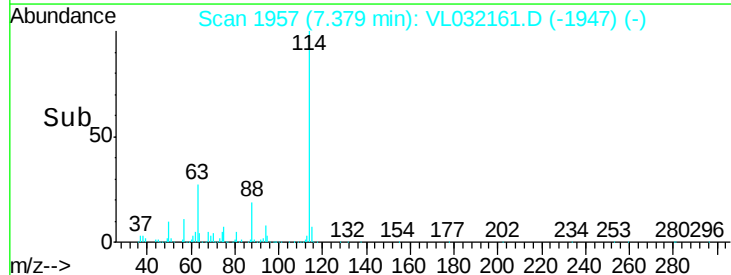
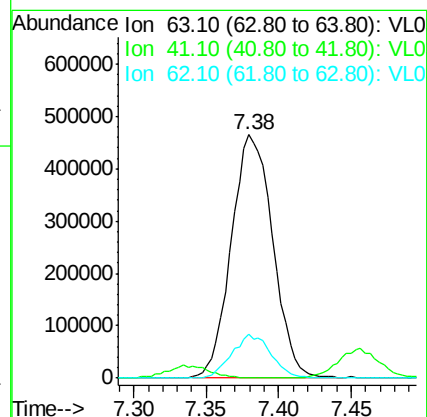
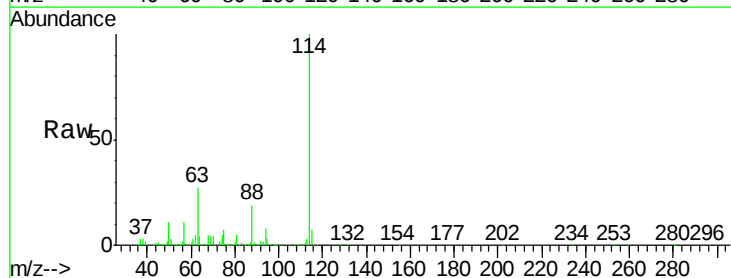
Tgt Ion: 63 Resp: 916095

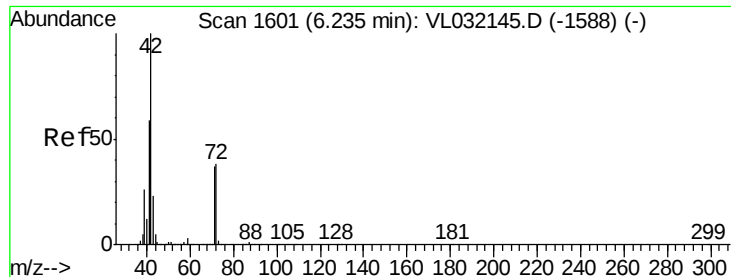
Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

62 18.1 54.8 82.2#





#41

Tetrahydrofuran

Concen: 0.143 ppbv

RT: 6.24 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

DUPE

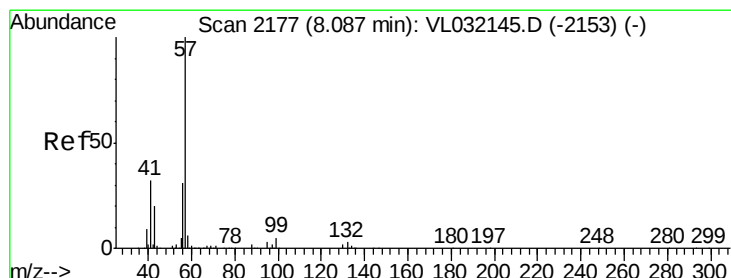
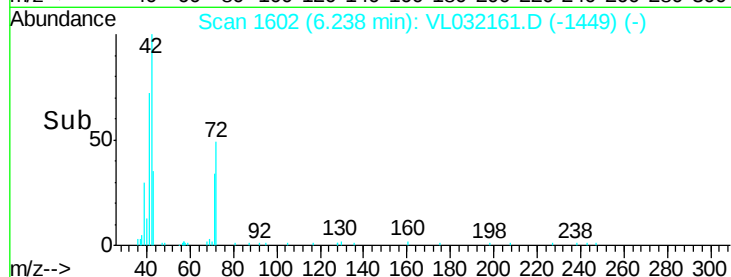
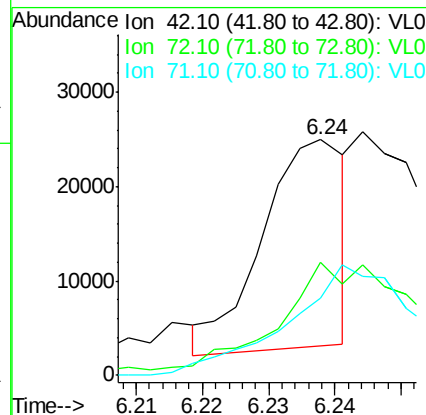
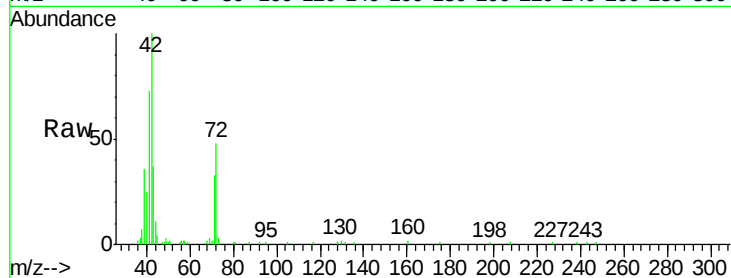
Tgt Ion: 42 Resp: 19296

Ion Ratio Lower Upper

42 100

72 107.5 31.1 46.7#

71 0.0 29.5 44.3#



#44

2,2,4-Trimethylpentane

Concen: 0.148 ppbv

RT: 8.08 min Scan# 2174

Delta R.T. -0.03 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

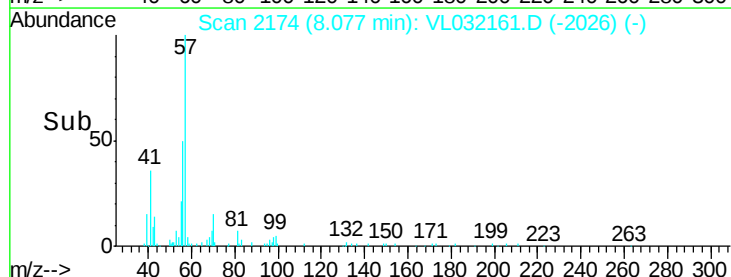
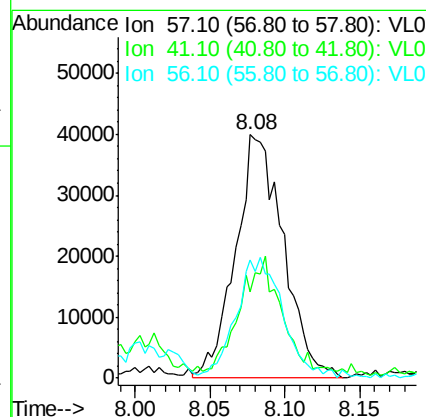
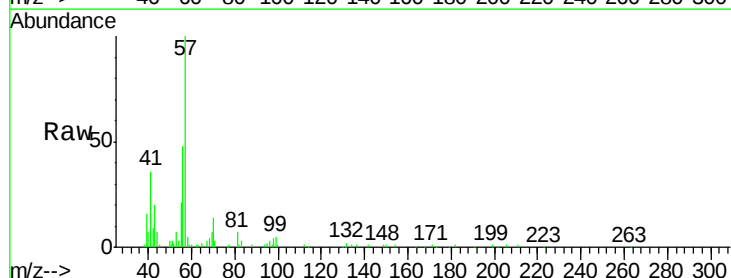
Tgt Ion: 57 Resp: 88735

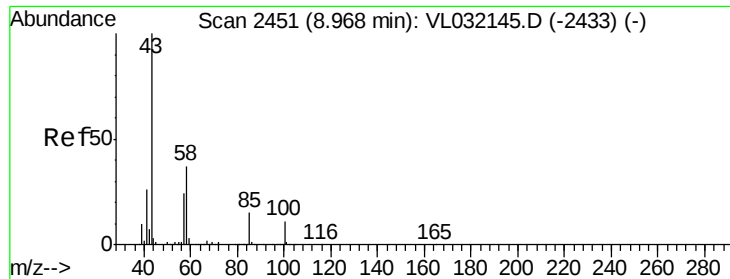
Ion Ratio Lower Upper

57 100

41 48.0 24.3 36.5#

56 47.4 25.1 37.7#

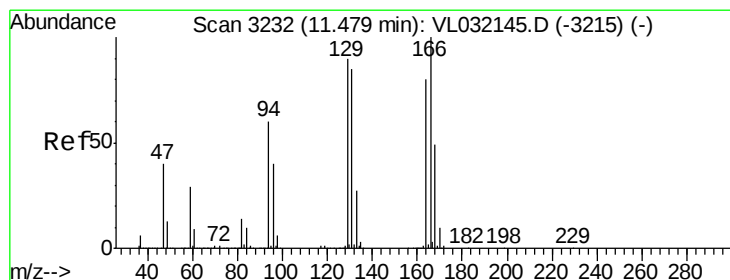
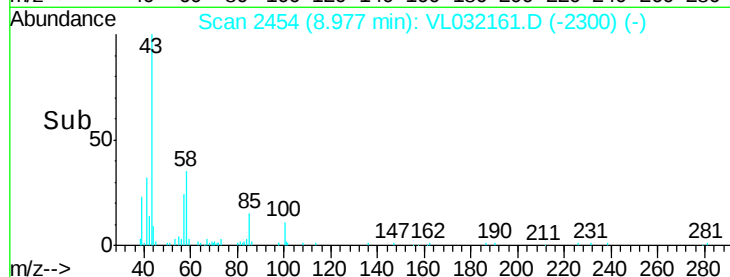
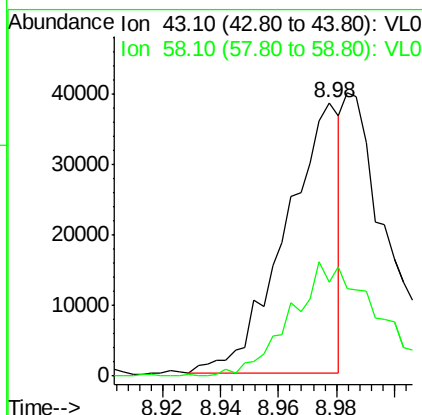
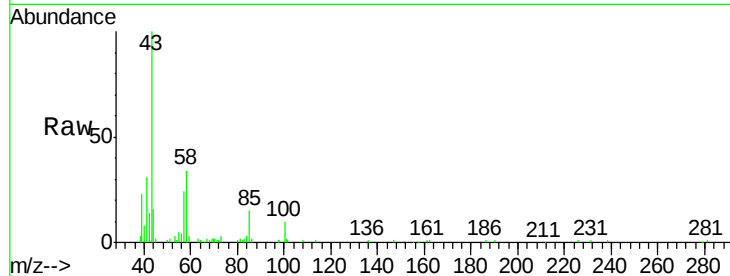




#50  
 4-Methyl-2-Pentanone  
 Concen: 0.135 ppbv  
 RT: 8.98 min Scan# 2454  
 Delta R.T. -0.01 min  
 Lab File: VL032161.D  
 Acq: 30 Jun 2018 8:34

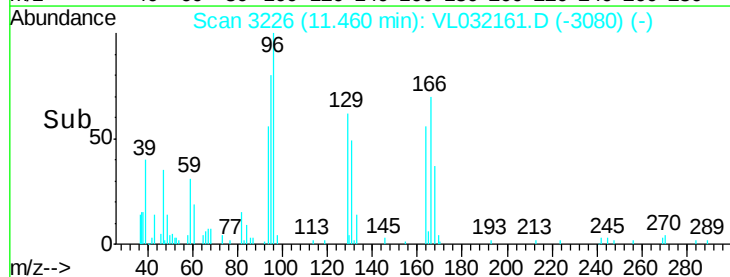
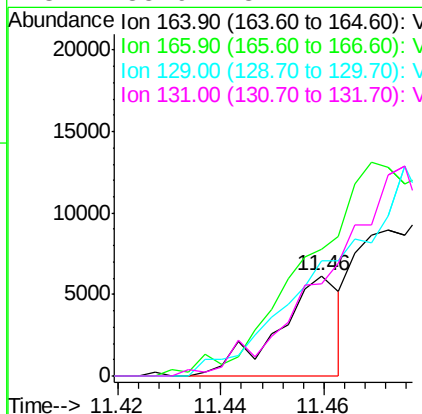
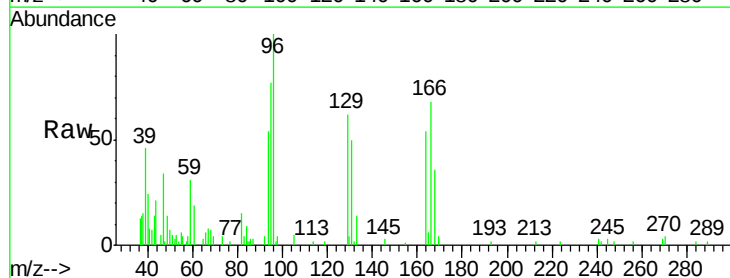
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DUPE

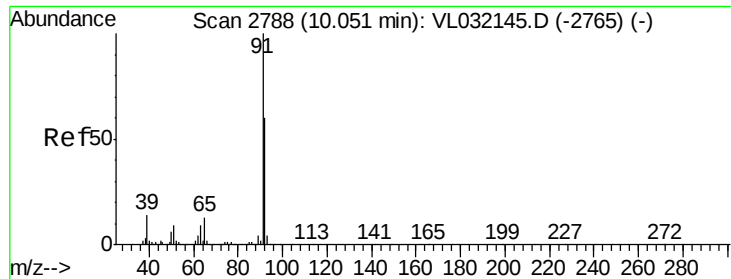
Tgt Ion: 43 Resp: 49550  
 Ion Ratio Lower Upper  
 43 100  
 58 69.8 29.8 44.6#



#52  
 Tetrachloroethene  
 Concen: 0.041 ppbv  
 RT: 11.46 min Scan# 3226  
 Delta R.T. -0.03 min  
 Lab File: VL032161.D  
 Acq: 30 Jun 2018 8:34

Tgt Ion: 164 Resp: 5094  
 Ion Ratio Lower Upper  
 164 100  
 166 122.2 100.6 151.0  
 129 115.3 84.0 126.0  
 131 85.9 82.7 124.1





#53

Toluene

Concen: 3.717 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

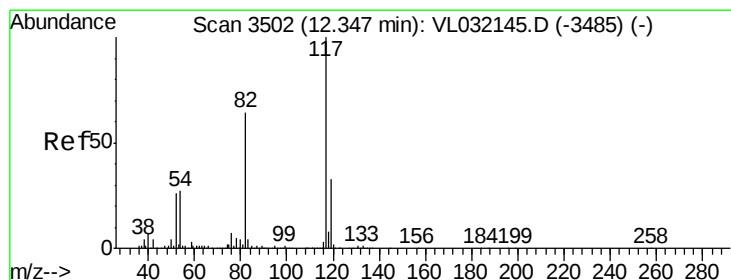
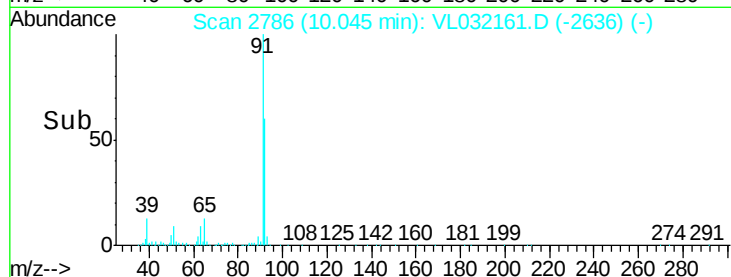
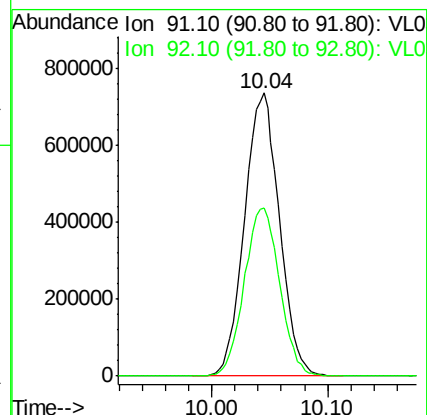
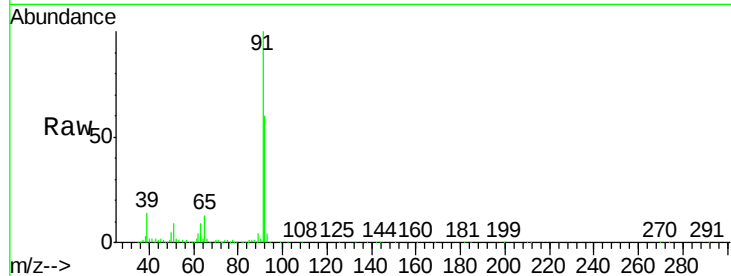
DUPE

Tgt Ion: 91 Resp: 1537869

Ion Ratio Lower Upper

91 100

92 60.5 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

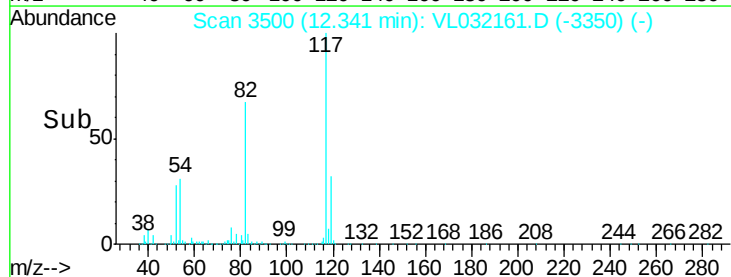
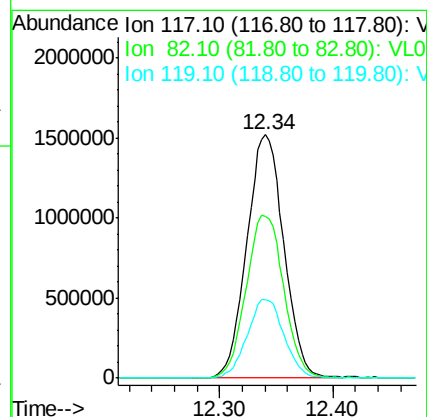
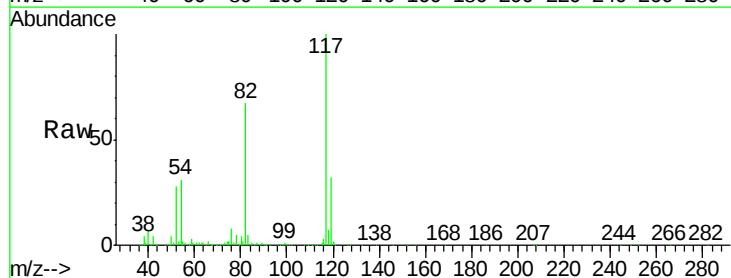
Tgt Ion: 117 Resp: 3455125

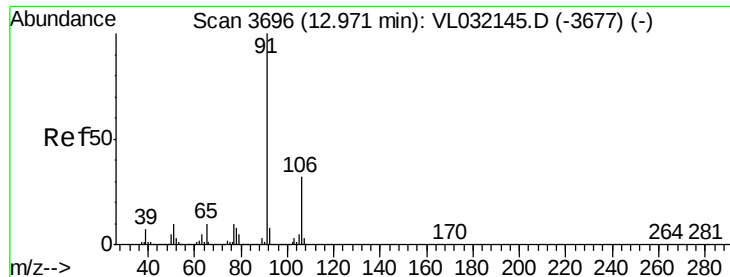
Ion Ratio Lower Upper

117 100

82 68.3 47.8 71.8

119 32.3 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.623 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

Instrument :

MSVOA\_L

ClientSampleId :

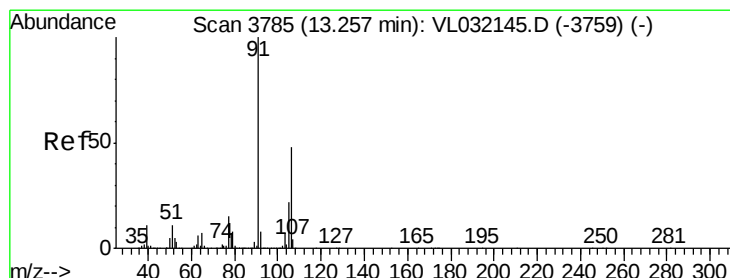
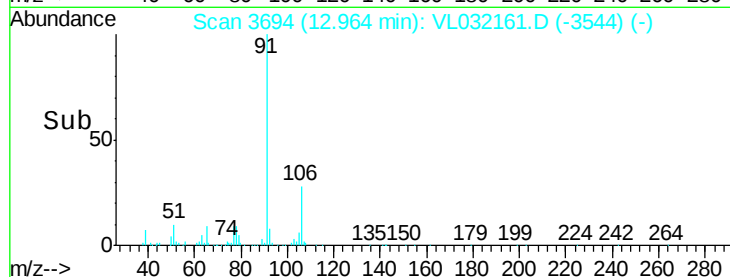
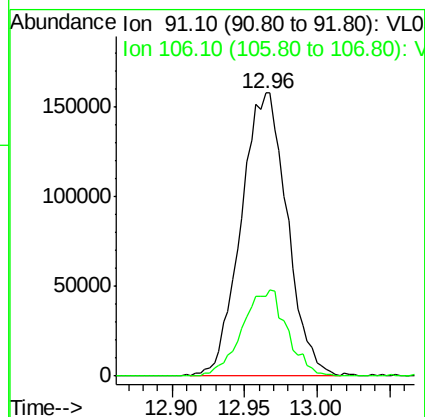
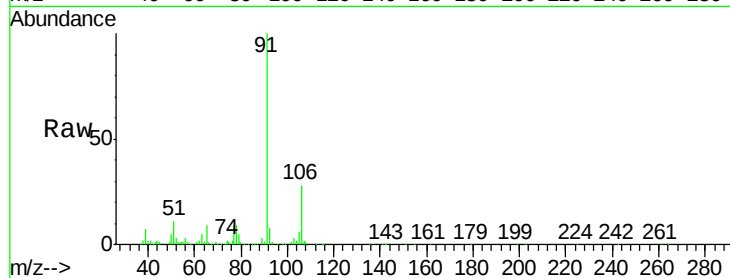
DUPE

Tgt Ion: 91 Resp: 346927

Ion Ratio Lower Upper

91 100

106 28.4 26.5 39.7



#59

m/p-Xylene

Concen: 1.835 ppbv

RT: 13.22 min Scan# 3773

Delta R.T. -0.05 min

Lab File: VL032161.D

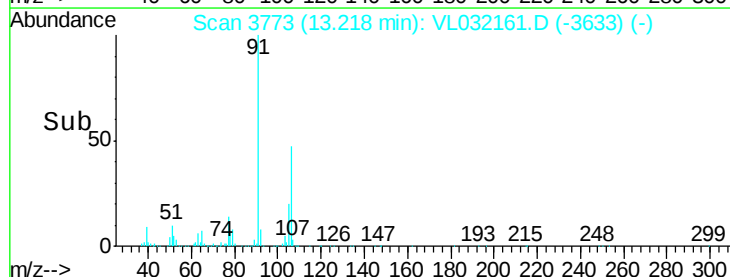
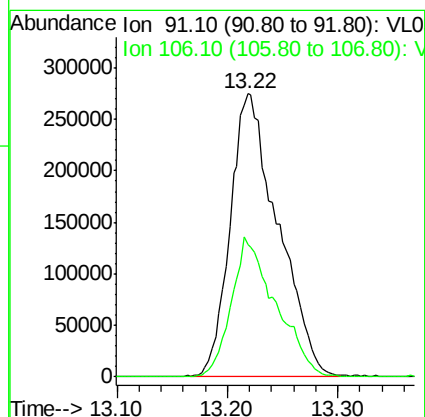
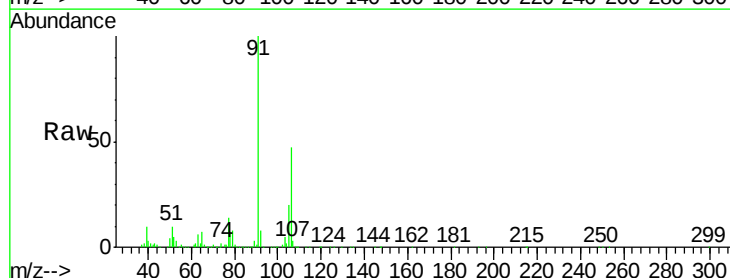
Acq: 30 Jun 2018 8:34

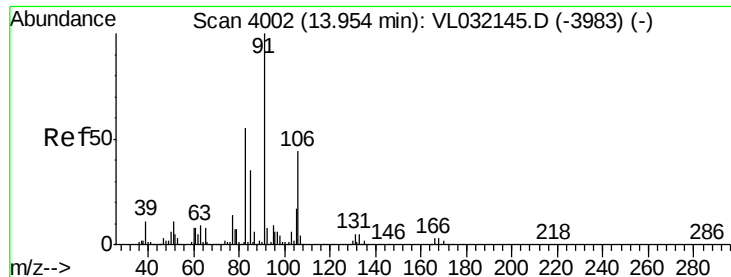
Tgt Ion: 91 Resp: 819227

Ion Ratio Lower Upper

91 100

106 46.1 38.6 58.0

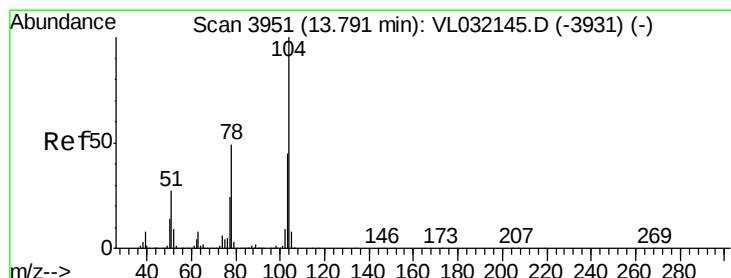
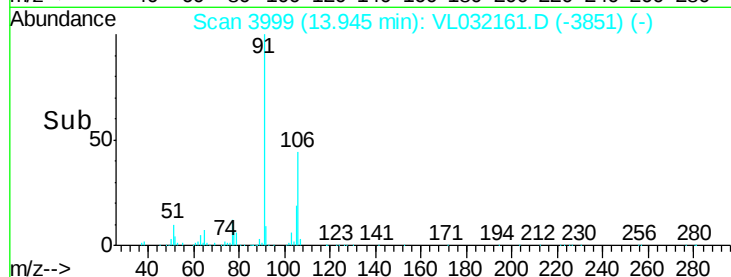
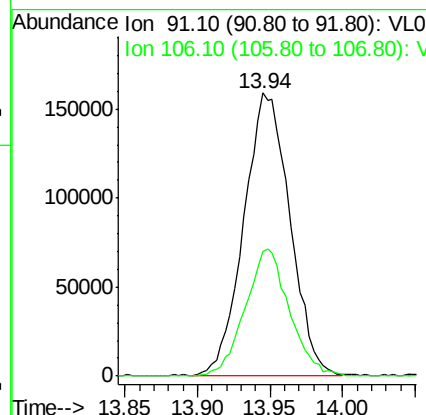
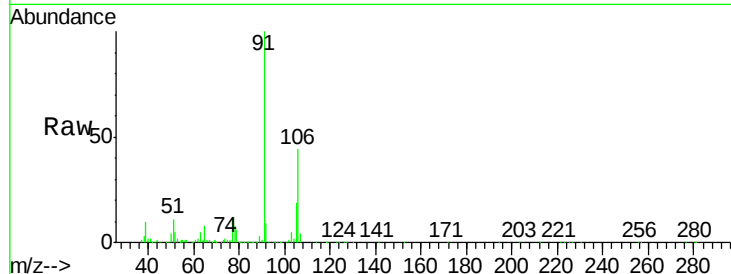




#60  
o-Xylene  
Concen: 0.787 ppbv  
RT: 13.94 min Scan# 3999  
Delta R.T. -0.03 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

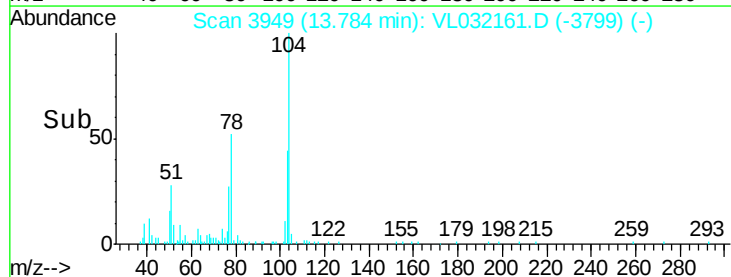
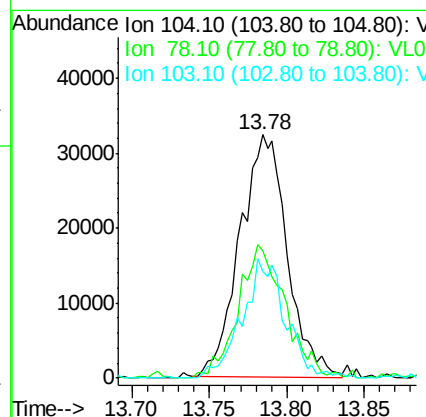
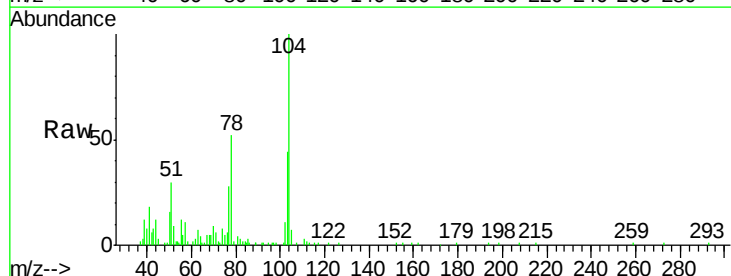
Instrument :  
MSVOA\_L  
ClientSampleId :  
DUPE

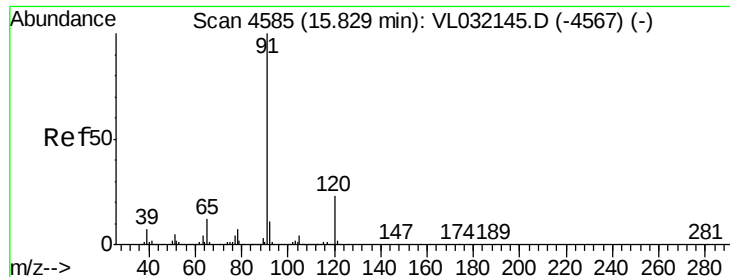
Tgt Ion: 91 Resp: 350135  
Ion Ratio Lower Upper  
91 100  
106 43.5 23.3 69.8



#61  
Styrene  
Concen: 0.189 ppbv  
RT: 13.78 min Scan# 3949  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

Tgt Ion: 104 Resp: 68774  
Ion Ratio Lower Upper  
104 100  
78 54.7 37.9 56.9  
103 45.2 36.6 55.0

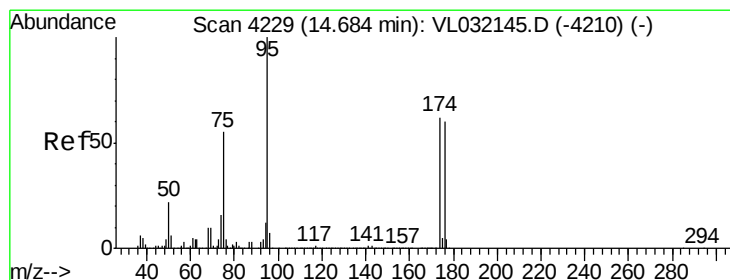
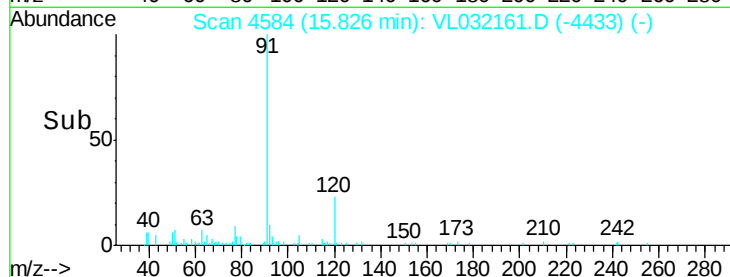
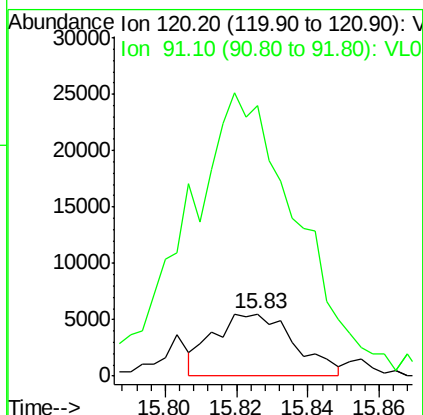
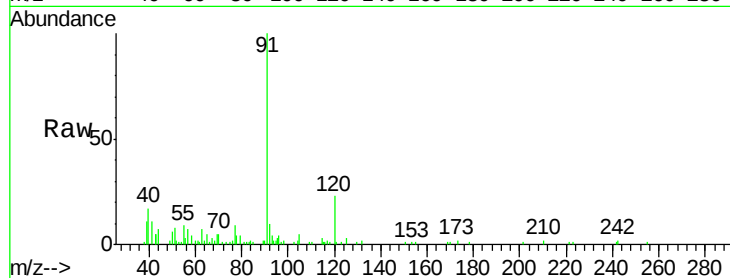




#64  
n-propylbenzene  
Concen: 0.049 ppbv  
RT: 15.83 min Scan# 4584  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

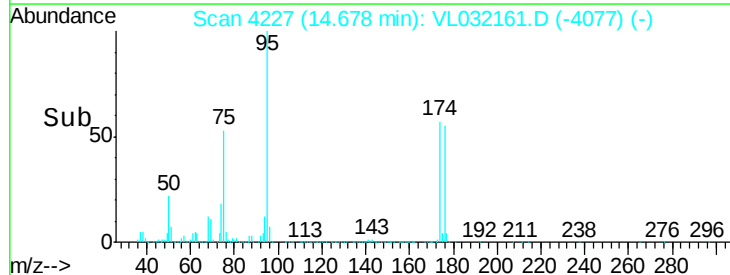
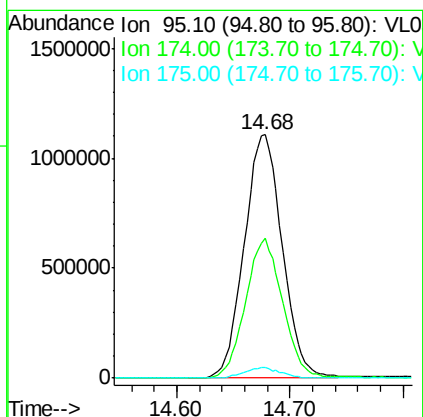
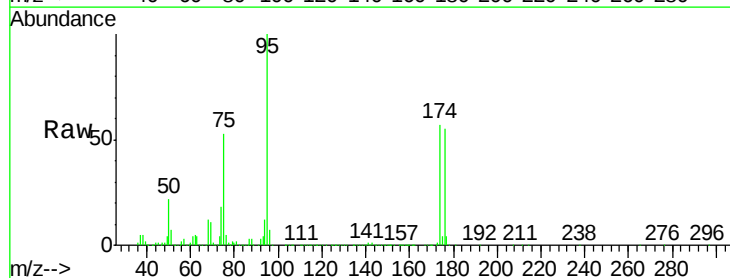
Instrument :  
MSVOA\_L  
ClientSampleId :  
DUPE

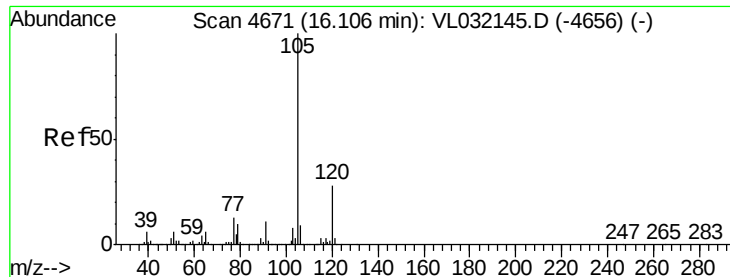
Tgt Ion: 120 Resp: 8733  
Ion Ratio Lower Upper  
120 100  
91 646.4 357.4 536.0#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.796 ppbv  
RT: 14.68 min Scan# 4227  
Delta R.T. -0.02 min  
Lab File: VL032161.D  
Acq: 30 Jun 2018 8:34

Tgt Ion: 95 Resp: 2587174  
Ion Ratio Lower Upper  
95 100  
174 56.4 52.1 78.1  
175 4.2 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.041 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.03 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

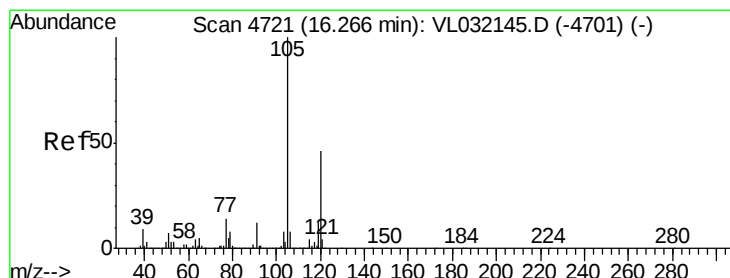
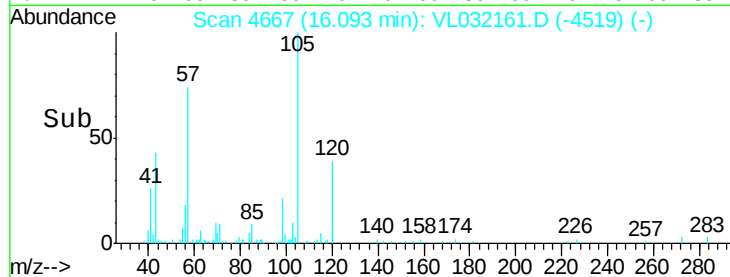
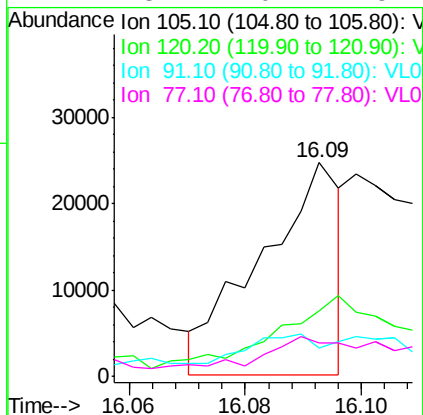
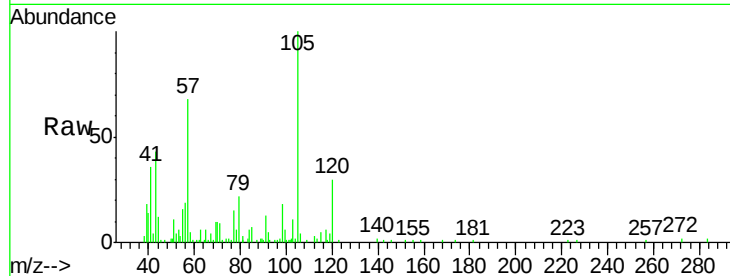
Instrument :

MSVOA\_L

ClientSampleId :

DUPE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 23594 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 0.0   | 24.3  | 36.5# |
| 91        | 53.1  | 9.4   | 14.0# |
| 77        | 43.1  | 10.2  | 15.2# |



#73

1,3,5-Trimethylbenzene

Concen: 0.067 ppbv

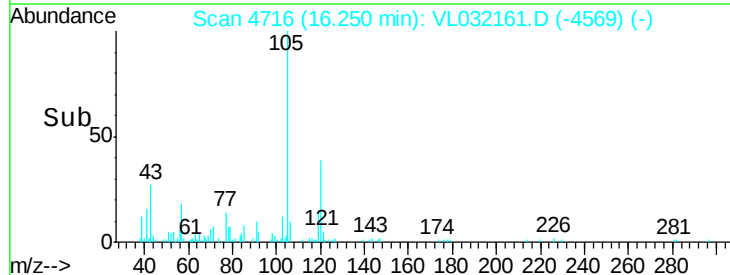
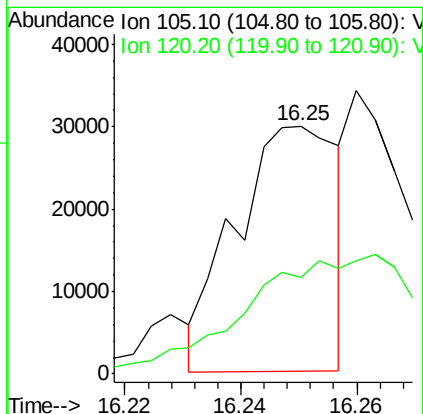
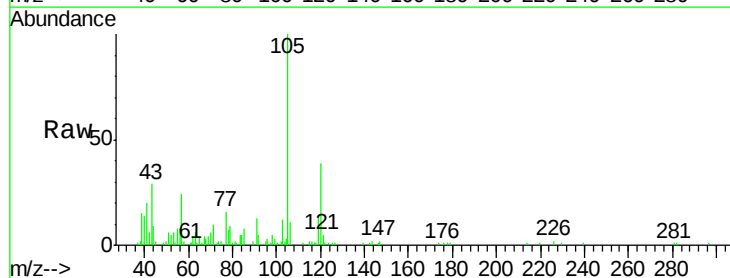
RT: 16.25 min Scan# 4716

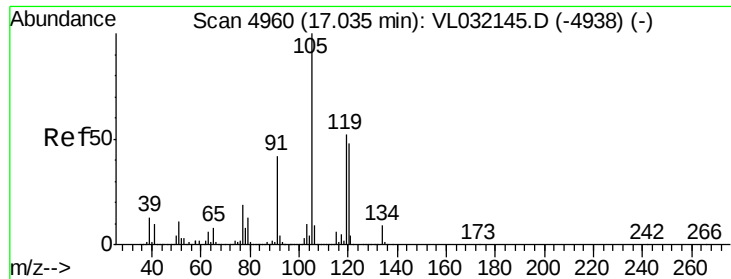
Delta R.T. -0.03 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 36412 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 35.6  | 38.6  | 57.8# |





#74

1,2,4-Trimethylbenzene

Concen: 0.196 ppbv

RT: 17.02 min Scan# 4955

Delta R.T. -0.03 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

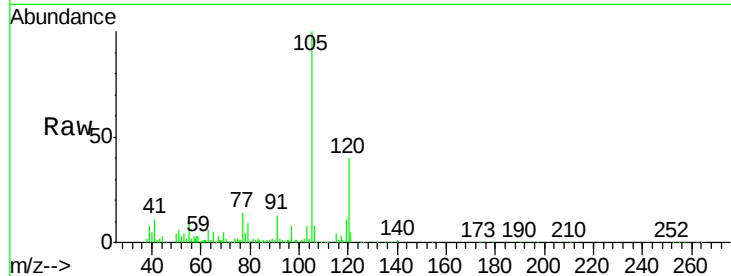
Instrument :

MSVOA\_L

ClientSampleId :

DUPE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 106979 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 39.2  | 38.8  | 58.2   |
| 91        | 12.3  | 33.6  | 50.4#  |
| 77        | 14.0  | 16.0  | 24.0#  |

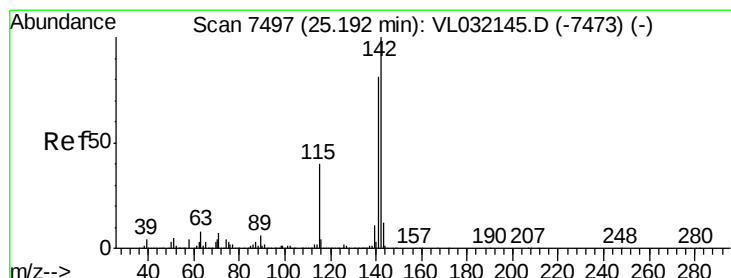
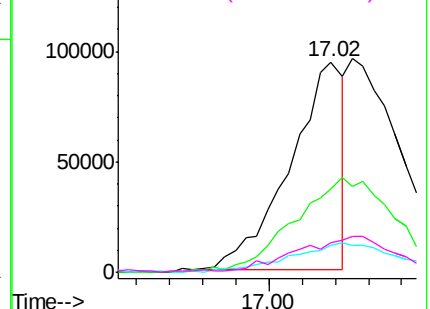
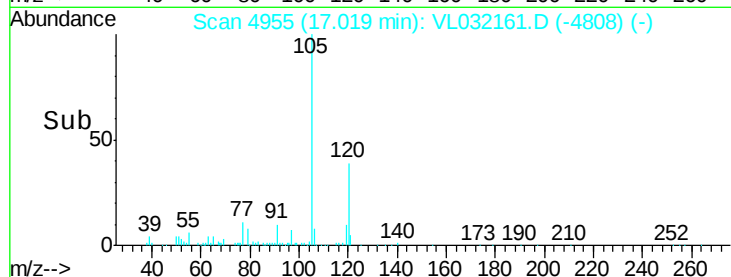


Abundance Ion 105.10 (104.80 to 105.80): V

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



#80

Naphthalene, 2-methyl-

Concen: 0.082 ppbv

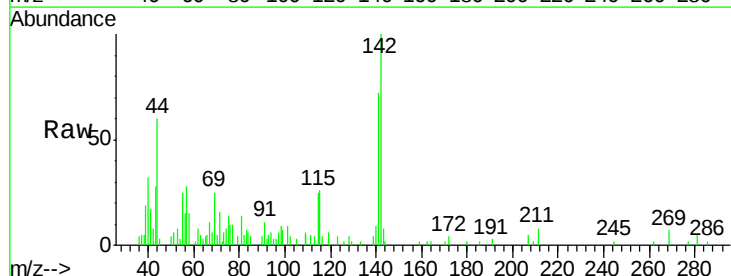
RT: 25.20 min Scan# 7499

Delta R.T. -0.01 min

Lab File: VL032161.D

Acq: 30 Jun 2018 8:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 14735 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 82.3  | 65.8  | 98.6  |
| 115       | 57.6  | 29.4  | 44.0# |



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

