

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120319\  
 Data File : VX013741.D  
 Acq On : 03 Dec 2019 21:37  
 Operator : JC/SP  
 Sample : K6084-04DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 30736

Quant Time: Dec 04 00:53:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 754398   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1119916  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 996221   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 481229   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 395283   | 45.14 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.28% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 333055   | 48.11 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.22% |      |
| 50) Toluene-d8            | 8.71   | 98  | 1331813  | 49.37 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.74% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 466367   | 47.95 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.90% |      |

## Target Compounds

|                               |       |     |         |         |        | Qvalue |
|-------------------------------|-------|-----|---------|---------|--------|--------|
| 5) Bromomethane               | 1.64  | 94  | 1615    | 0.227   | ug/l # | 56     |
| 6) Chloroethane               | 1.58  | 64  | 8098    | 1.342   | ug/l # | 64     |
| 8) Diethyl Ether              | 2.18  | 74  | 5429    | 1.019   | ug/l   | 97     |
| 11) Tert butyl alcohol        | 3.03  | 59  | 392777  | 181.717 | ug/l   | 99     |
| 13) Acrolein                  | 2.29  | 56  | 520     | 6.355   | ug/l # | 15     |
| 16) Acetone                   | 2.43  | 43  | 616921  | 142.694 | ug/l   | 98     |
| 17) Carbon Disulfide          | 2.56  | 76  | 26710   | 1.305   | ug/l   | 100    |
| 18) Methyl Acetate            | 2.76  | 43  | 67706   | 5.624   | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 3.18  | 73  | 119932  | 5.043   | ug/l # | 90     |
| 20) Methylene Chloride        | 2.84  | 84  | 5572    | 0.671   | ug/l # | 93     |
| 22) Diisopropyl ether         | 3.78  | 45  | 44336   | 1.767   | ug/l # | 1      |
| 25) 2-Butanone                | 4.66  | 43  | 217575  | 33.862  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 5.12  | 42  | 23740   | 5.993   | ug/l   | 98     |
| 30) Chloroform                | 5.20  | 83  | 42326   | 3.043   | ug/l   | 96     |
| 31) Cyclohexane               | 5.58  | 56  | 20146   | 1.557   | ug/l # | 88     |
| 36) 1,1-Dichloropropene       | 5.65  | 75  | 48761   | 4.796   | ug/l # | 49     |
| 37) Ethyl Acetate             | 4.66  | 43  | 217575  | 19.078  | ug/l # | 69     |
| 38) Carbon Tetrachloride      | 5.65  | 117 | 64700   | 6.902   | ug/l # | 16     |
| 39) Methylcyclohexane         | 7.46  | 83  | 26387   | 2.100   | ug/l   | 99     |
| 40) Benzene                   | 6.14  | 78  | 2655864 | 85.777  | ug/l   | 99     |
| 41) Methacrylonitrile         | 5.11  | 41  | 25179   | 4.026   | ug/l # | 47     |
| 42) 1,2-Dichloroethane        | 6.14  | 62  | 25643   | 2.428   | ug/l   | 74     |
| 43) Isopropyl Acetate         | 6.43  | 43  | 326448  | 17.387  | ug/l   | 96     |
| 47) Bromodichloromethane      | 7.89  | 83  | 5841    | 0.587   | ug/l # | 77     |
| 48) Methyl methacrylate       | 7.75  | 41  | 10852   | 1.190   | ug/l # | 33     |
| 49) 1,4-Dioxane               | 7.73  | 88  | 11933   | 58.437  | ug/l # | 51     |
| 51) 4-Methyl-2-Pentanone      | 8.64  | 43  | 146412  | 12.397  | ug/l   | 97     |
| 52) Toluene                   | 8.78  | 92  | 2806134 | 145.887 | ug/l   | 100    |
| 53) t-1,3-Dichloropropene     | 8.96  | 75  | 10798   | 0.954   | ug/l # | 46     |
| 54) cis-1,3-Dichloropropene   | 8.40  | 75  | 10208   | 0.825   | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether | 8.40  | 63  | 11435   | 2.340   | ug/l   | 91     |
| 59) 2-Hexanone                | 9.49  | 43  | 50009   | 5.429   | ug/l   | 93     |
| 67) Ethyl Benzene             | 10.24 | 91  | 396242  | 11.148  | ug/l   | 100    |
| 68) m/p-Xylenes               | 10.35 | 106 | 1471414 | 108.132 | ug/l   | 99     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 2019  
 Response via : Initial Calibration

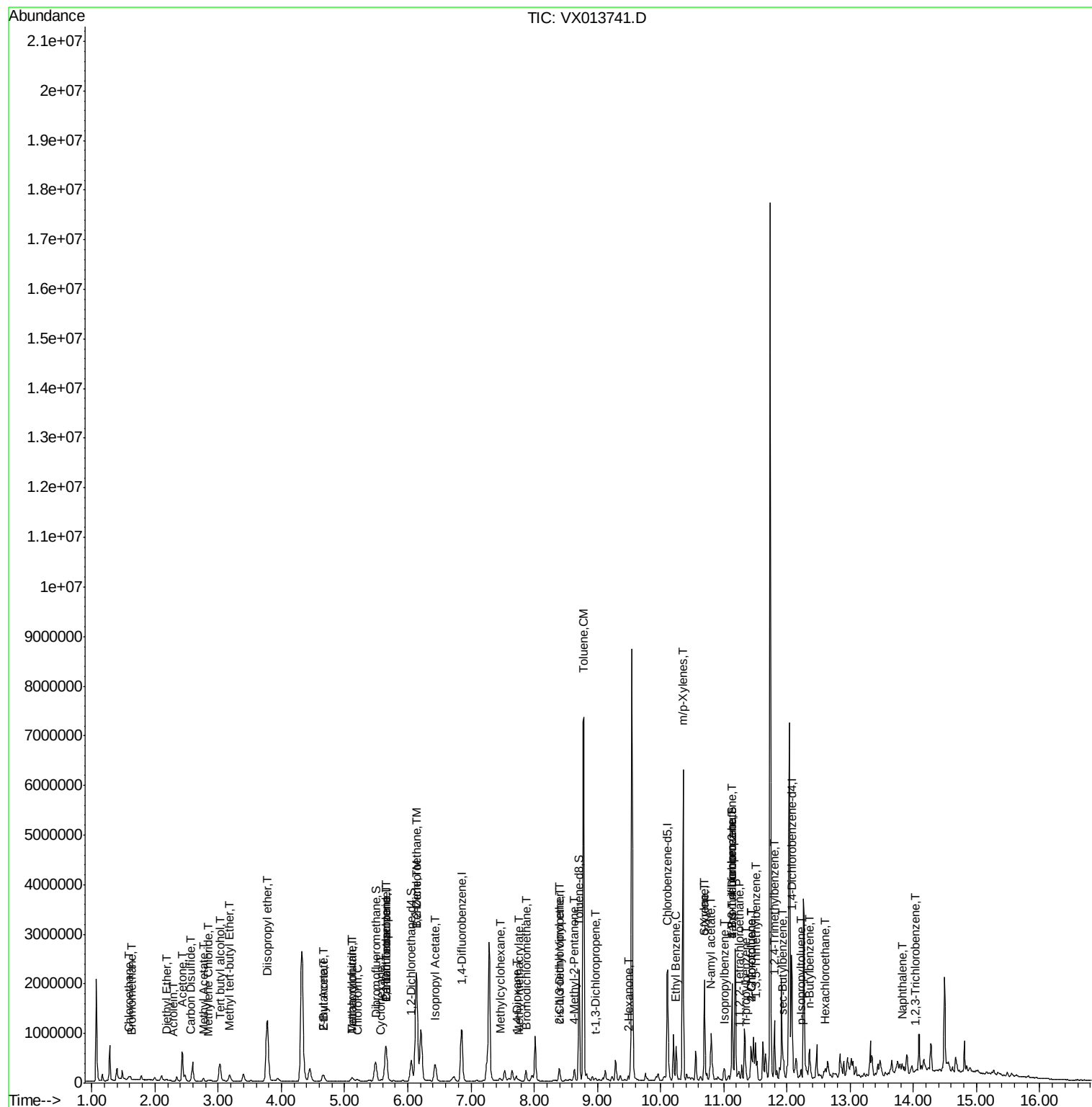
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 69) o-Xylene                   | 10.70 | 106  | 444091   | 33.462 | ug/l   | 98       |
| 70) Styrene                    | 10.69 | 104  | 22347    | 1.001  | ug/l # | 1        |
| 73) Isopropylbenzene           | 11.01 | 105  | 71257    | 2.111  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.81 | 43   | 213066   | 13.779 | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane  | 11.24 | 83   | 3051     | 0.261  | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 228996   | 21.157 | ug/l # | 39       |
| 78) n-propylbenzene            | 11.35 | 91   | 54594    | 1.449  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 52334    | 2.315  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 298404   | 10.786 | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 228996   | 57.882 | ug/l # | 11       |
| 82) 4-Chlorotoluene            | 11.43 | 91   | 52334    | 1.999  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 497482   | 17.717 | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 17815    | 0.555  | ug/l # | 67       |
| 86) p-Isopropyltoluene         | 12.23 | 119  | 17592    | 0.589  | ug/l   | 89       |
| 89) n-Butylbenzene             | 12.37 | 91   | 26494    | 1.040  | ug/l # | 11       |
| 90) Hexachloroethane           | 12.60 | 117  | 5376     | 0.995  | ug/l # | 6        |
| 95) Naphthalene                | 13.83 | 128  | 54506    | 1.672  | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene     | 14.03 | 180  | 2493     | 0.230  | ug/l # | 1        |
| -----                          |       |      |          |        |        |          |

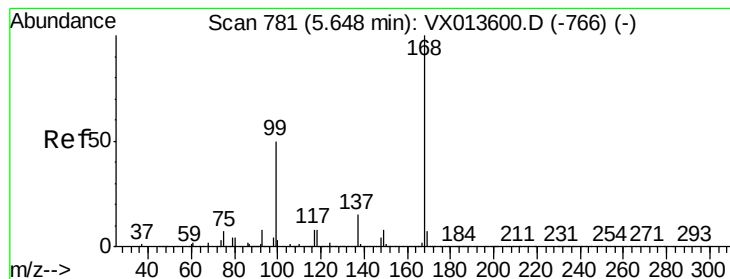
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QLast Update : Tue Nov 26 15:53:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

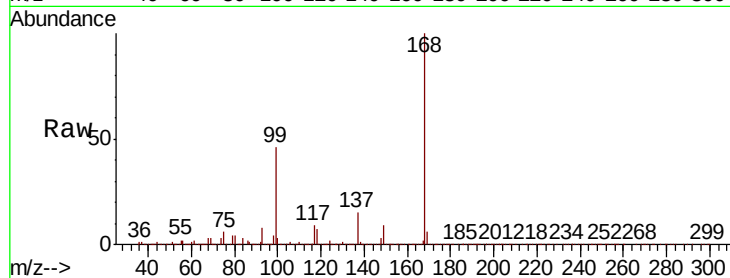
30736

Tot Ion:168 Resp: 754398

Ion Ratio Lower Upper

168 100

99 46.2 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

250000

200000

150000

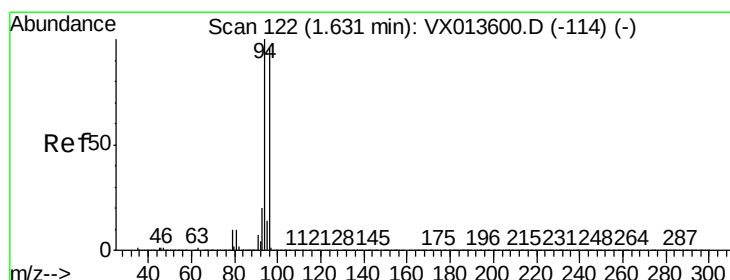
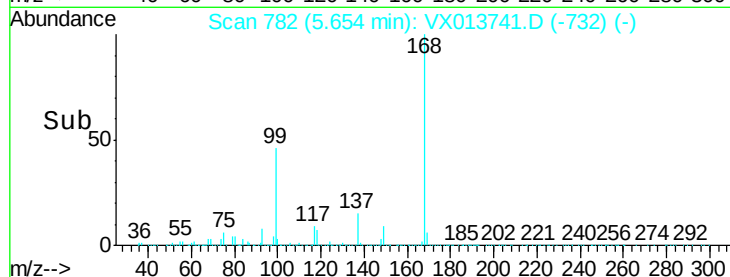
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013741.D

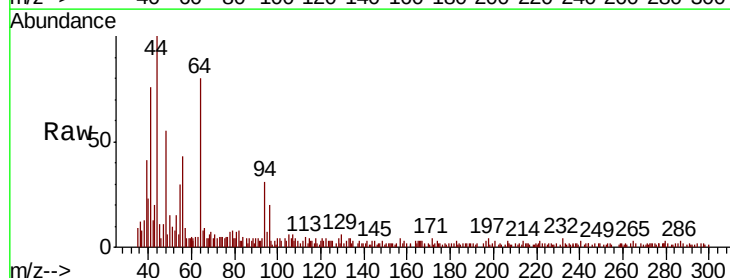
Acq: 03 Dec 2019 21:37

Tgt Ion: 94 Resp: 1615

Ion Ratio Lower Upper

94 100

96 53.6 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

2000

1500

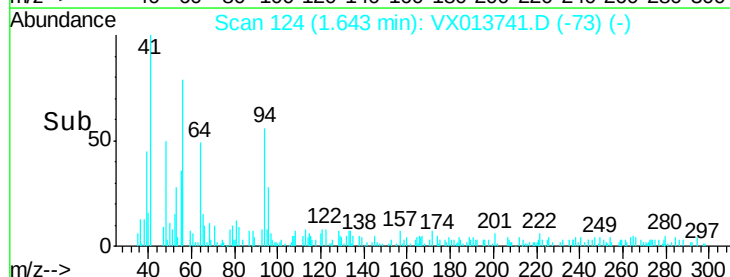
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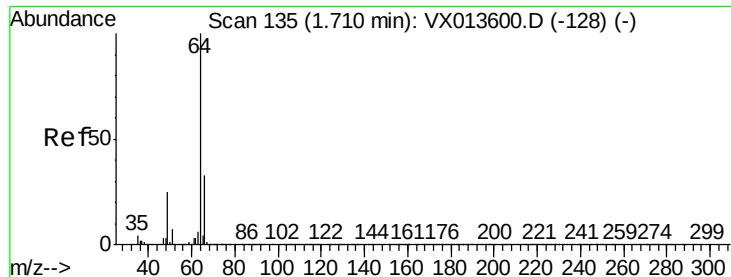
500

0

Time-->

1.62 1.64 1.66





#6

Chloroethane

Concen: 1.342 ug/l

RT: 1.58 min Scan# 113

Delta R.T. -0.13 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

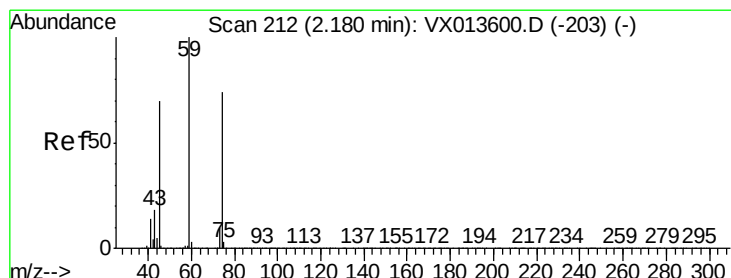
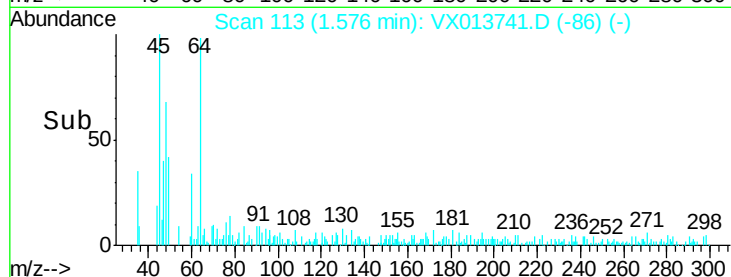
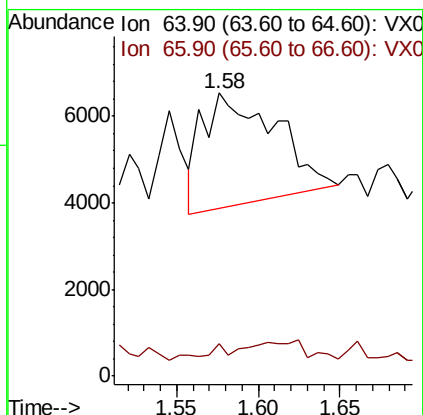
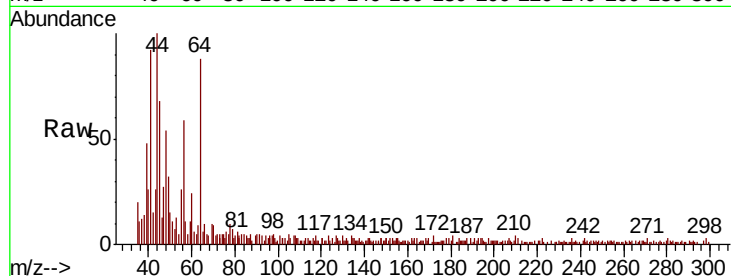
30736

Tot Ion: 64 Resp: 8098

Ion Ratio Lower Upper

64 100

66 12.7 26.7 40.1#



#8

Diethyl Ether

Concen: 1.019 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX013741.D

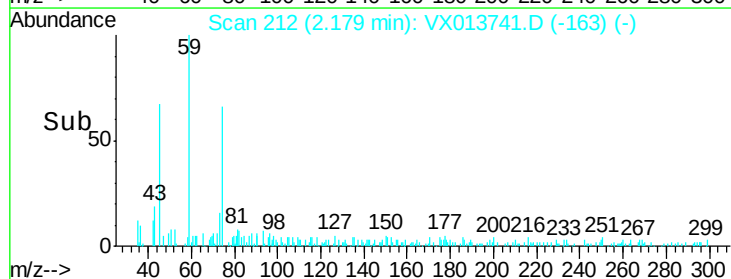
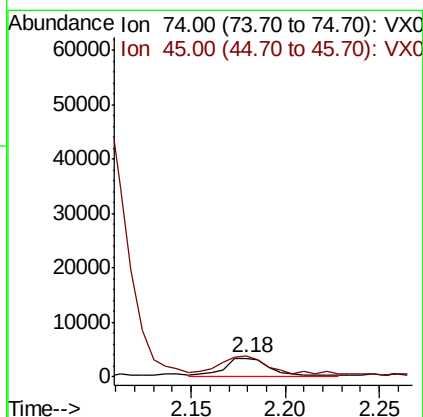
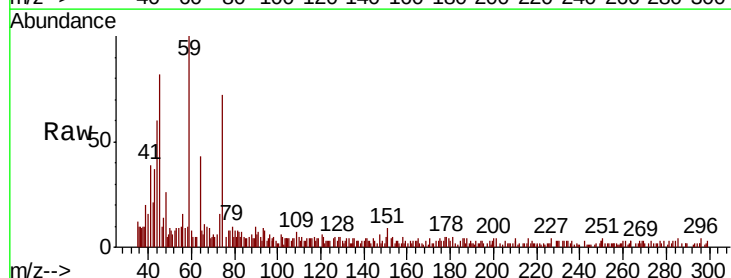
Acq: 03 Dec 2019 21:37

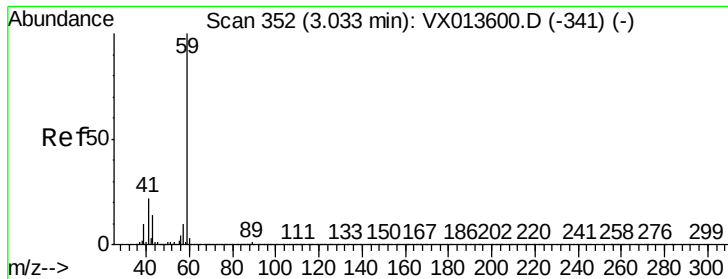
Tgt Ion: 74 Resp: 5429

Ion Ratio Lower Upper

74 100

45 95.3 48.9 146.8



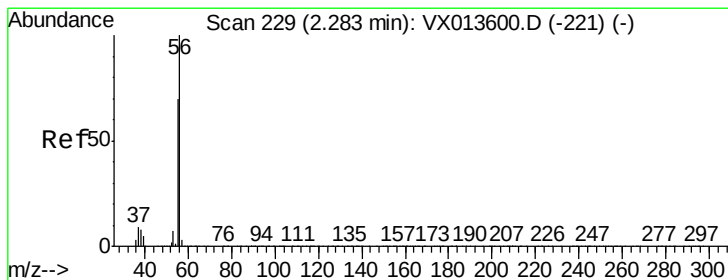
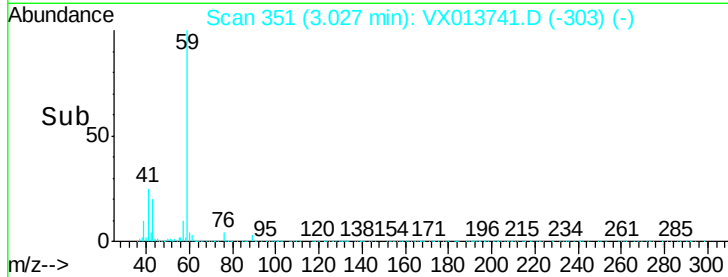
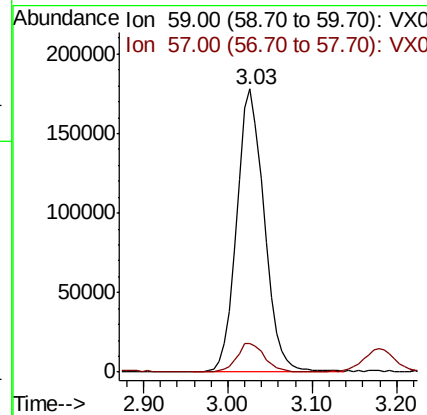
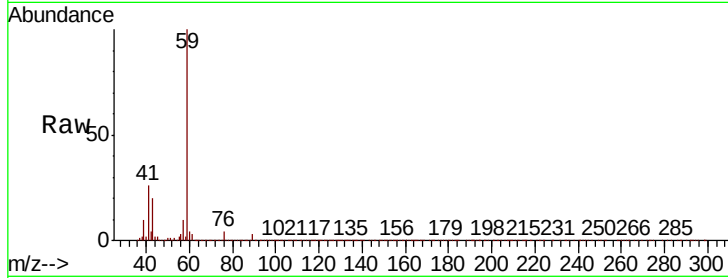


#11

Tert butyl alcohol  
 Concen: 181.717 ug/l  
 RT: 3.03 min Scan# 351  
 Delta R.T. -0.01 min  
 Lab File: VX013741.D  
 Acq: 03 Dec 2019 21:37

Instrument :  
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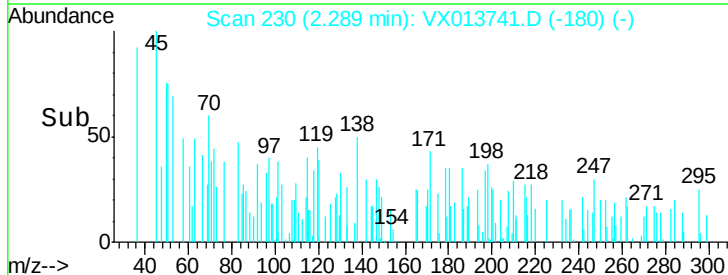
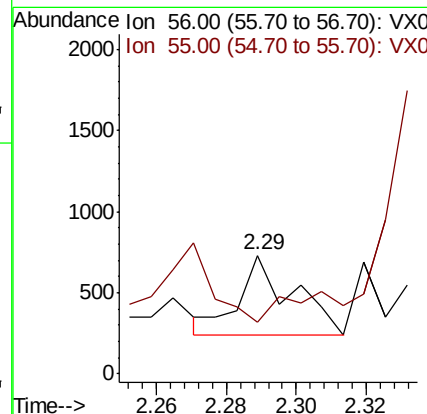
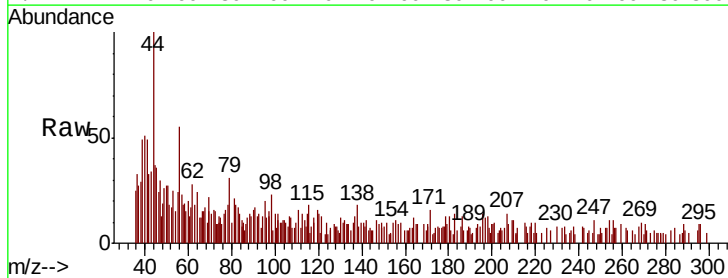
Tot Ion: 59 Resp: 392777  
 Ion Ratio Lower Upper  
 59 100  
 57 9.9 7.8 11.6

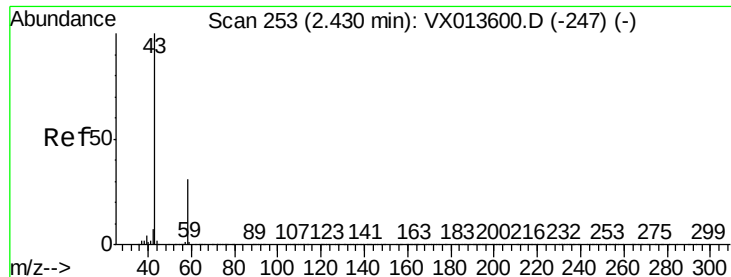


#13

Acrolein  
 Concen: 6.355 ug/l  
 RT: 2.29 min Scan# 230  
 Delta R.T. 0.01 min  
 Lab File: VX013741.D  
 Acq: 03 Dec 2019 21:37

Tgt Ion: 56 Resp: 520  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 56.2 84.4#





#16

Acetone

Concen: 142.694 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

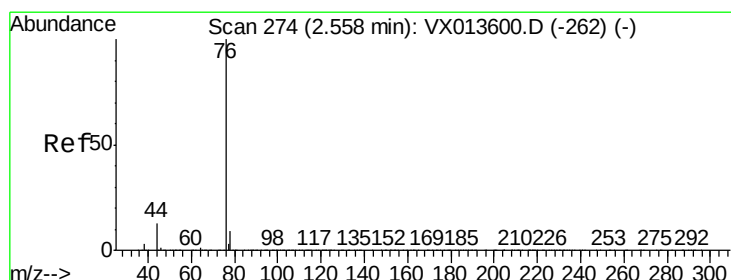
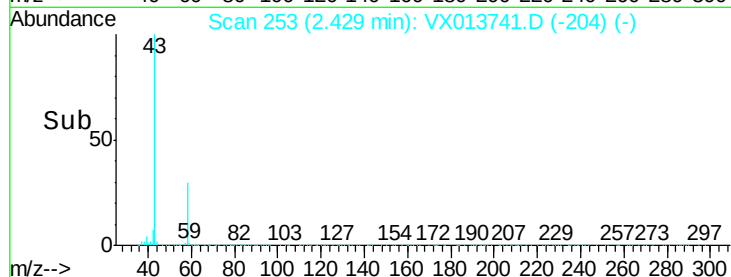
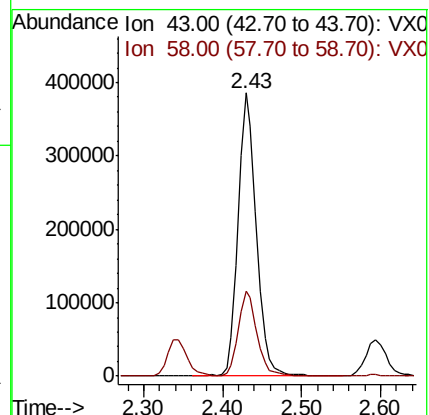
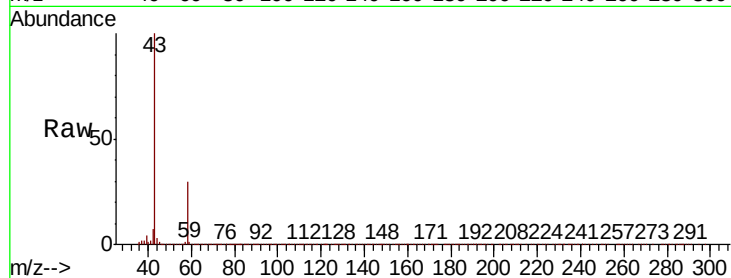
30736

Tot Ion: 43 Resp: 616921

Ion Ratio Lower Upper

43 100

58 29.8 24.6 36.8



#17

Carbon Disulfide

Concen: 1.305 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013741.D

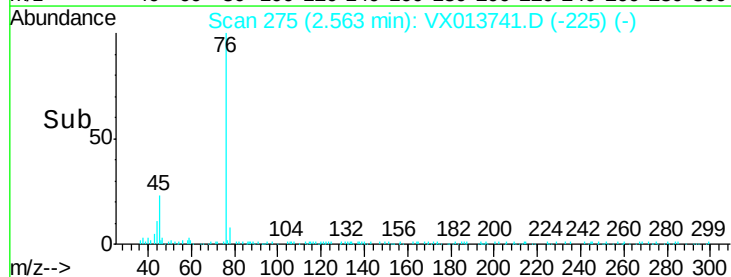
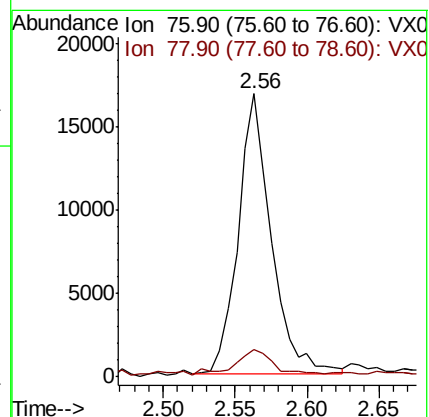
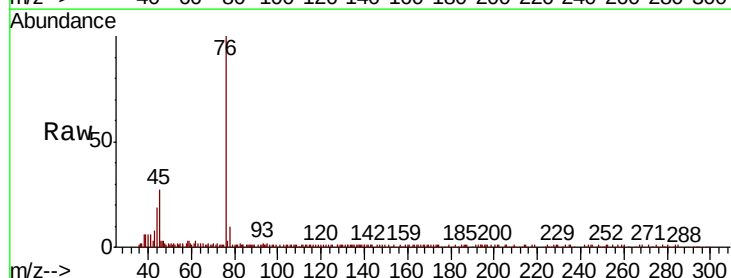
Acq: 03 Dec 2019 21:37

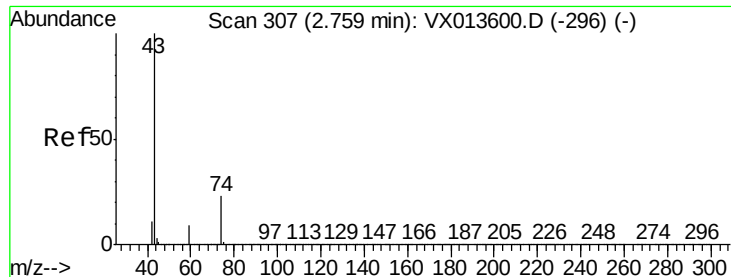
Tgt Ion: 76 Resp: 26710

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8

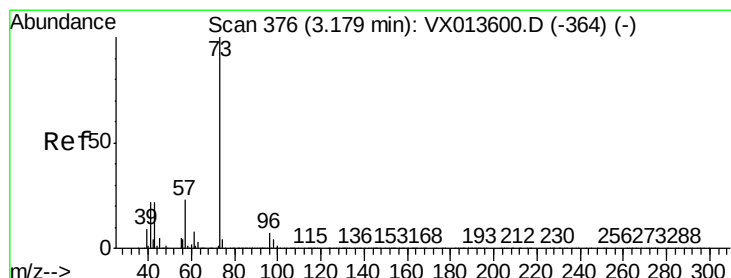
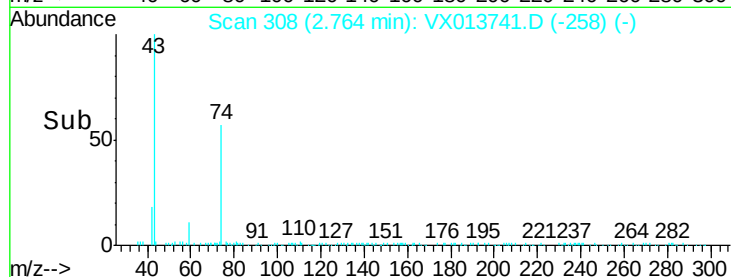
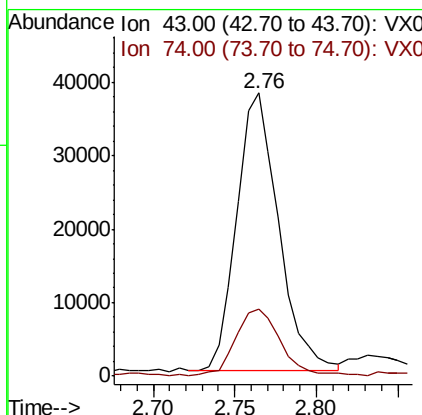
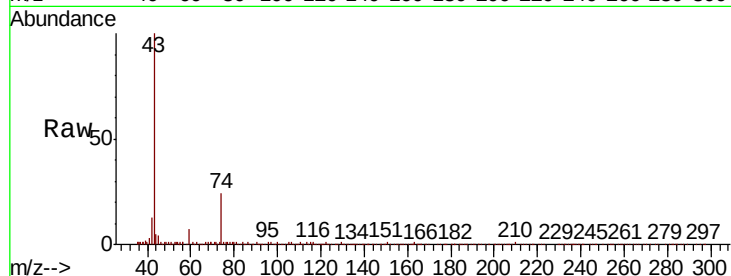




#18  
Methyl Acetate  
Concen: 5.624 ug/l  
RT: 2.76 min Scan# 308  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

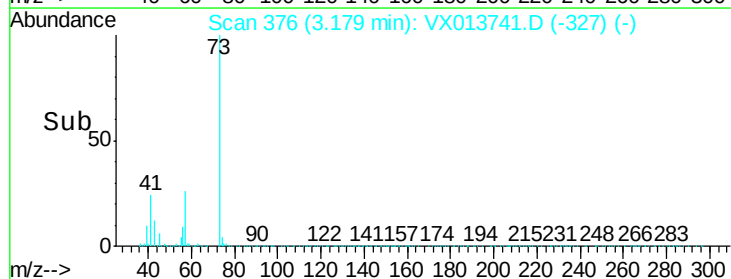
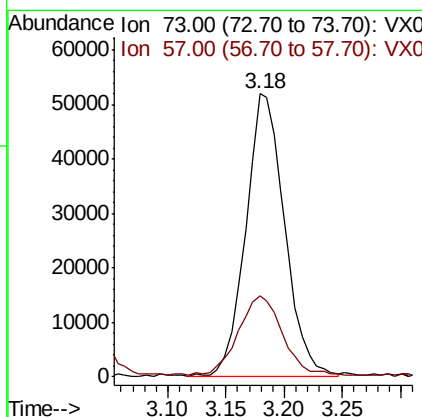
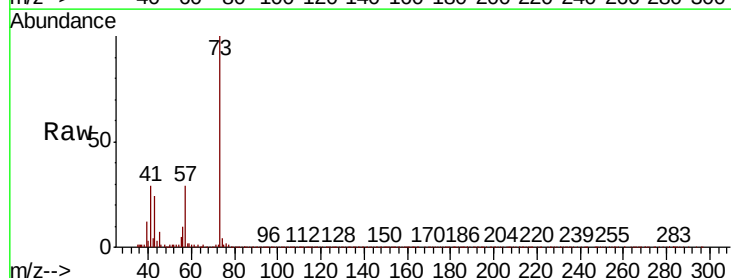
Instrument :  
MSVOA\_X  
ClientSampleId :  
30736

Tot Ion: 43 Resp: 67706  
Ion Ratio Lower Upper  
43 100  
74 26.3 19.5 29.3

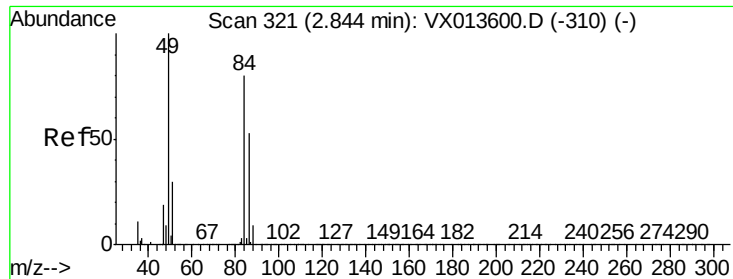


#19  
Methyl tert-butyl Ether  
Concen: 5.043 ug/l  
RT: 3.18 min Scan# 376  
Delta R.T. -0.00 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion: 73 Resp: 119932  
Ion Ratio Lower Upper  
73 100  
57 27.8 18.3 27.5#



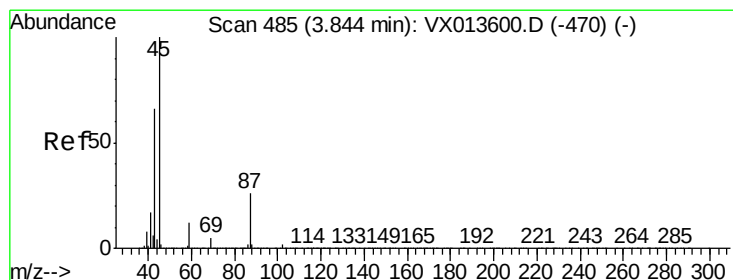
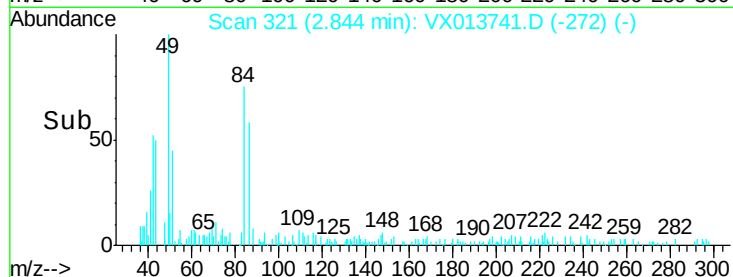
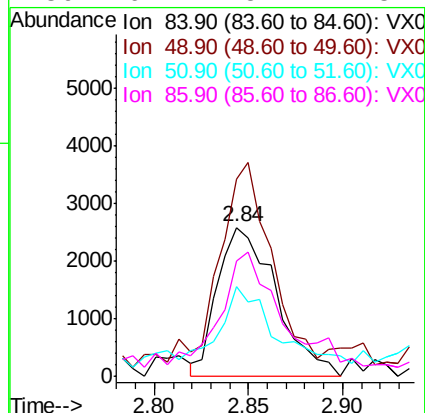
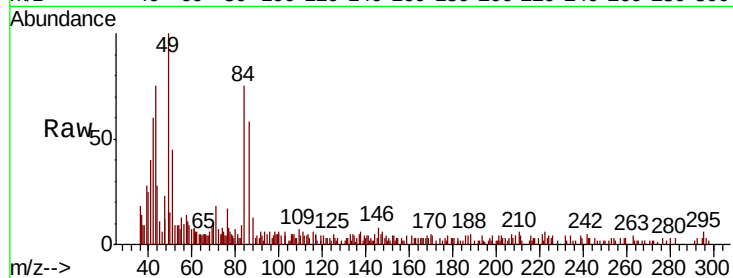




#20  
Methylene Chloride  
Concen: 0.671 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.00 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

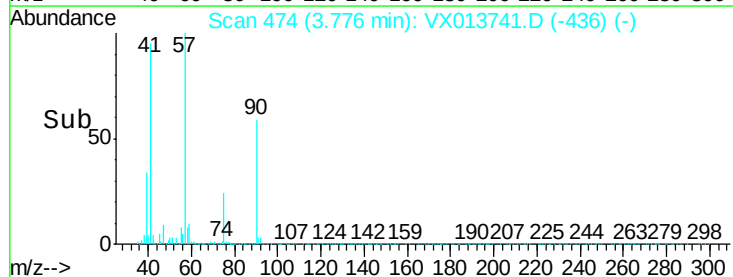
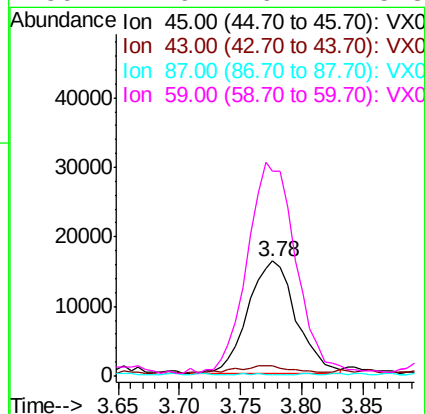
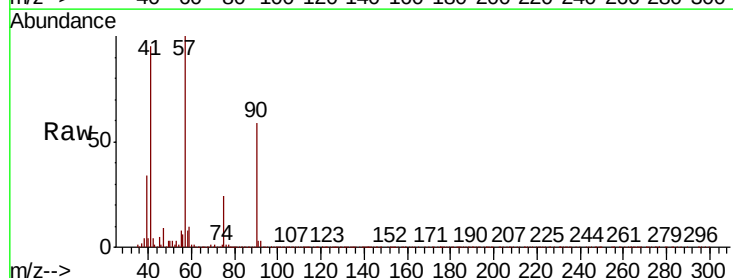
Instrument :  
MSVOA\_X  
ClientSampled :  
30736

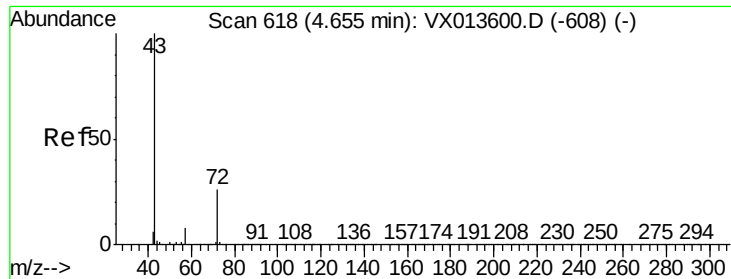
Tot Ion: 84 Resp: 5572  
Ion Ratio Lower Upper  
84 100  
49 116.7 99.7 149.5  
51 46.6 29.9 44.9#  
86 67.7 52.2 78.4



#22  
Diisopropyl ether  
Concen: 1.767 ug/l  
RT: 3.78 min Scan# 474  
Delta R.T. -0.07 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion: 45 Resp: 44336  
Ion Ratio Lower Upper  
45 100  
43 6.6 52.6 79.0#  
87 0.0 21.1 31.7#  
59 174.6 9.2 13.8#





#25

2-Butanone

Concen: 33.862 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

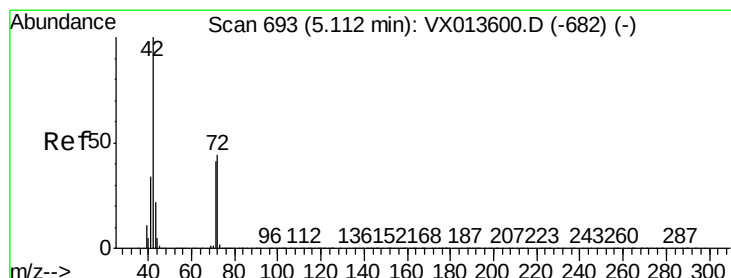
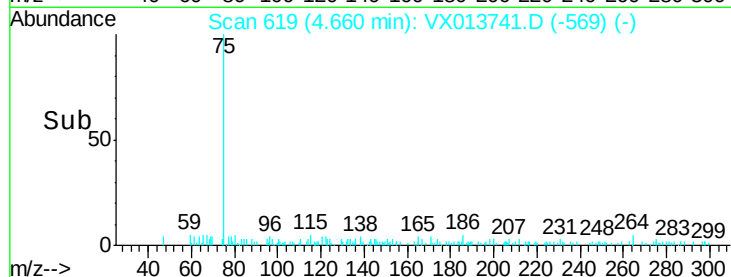
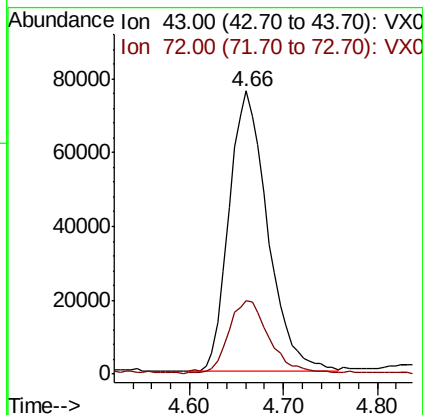
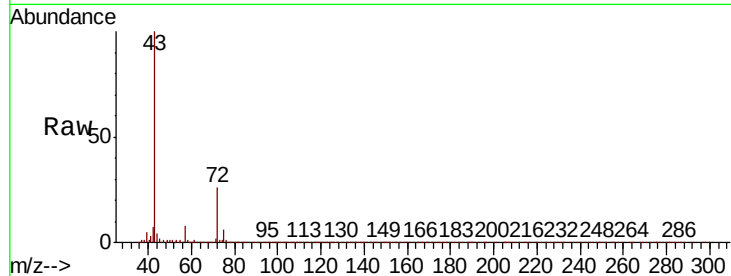
30736

Tot Ion: 43 Resp: 217575

Ion Ratio Lower Upper

43 100

72 25.5 20.6 31.0



#29

Tetrahydrofuran

Concen: 5.993 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

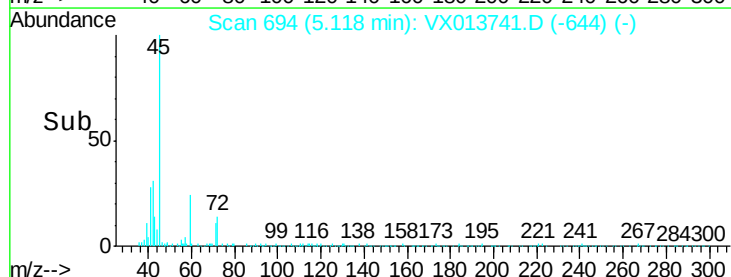
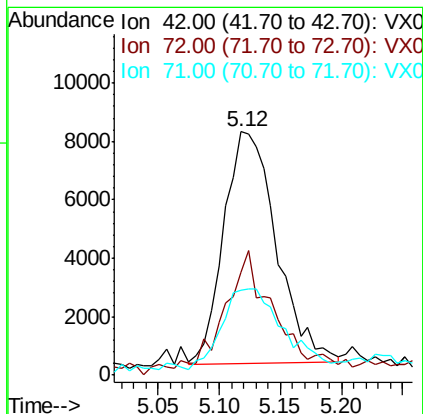
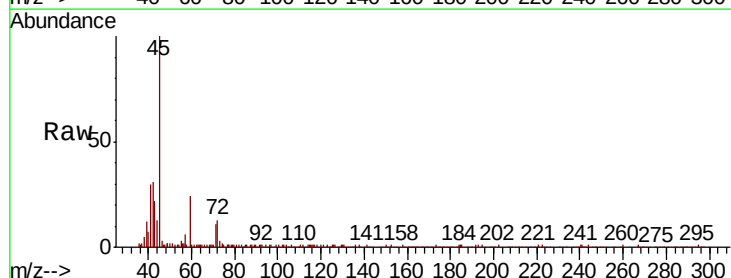
Tgt Ion: 42 Resp: 23740

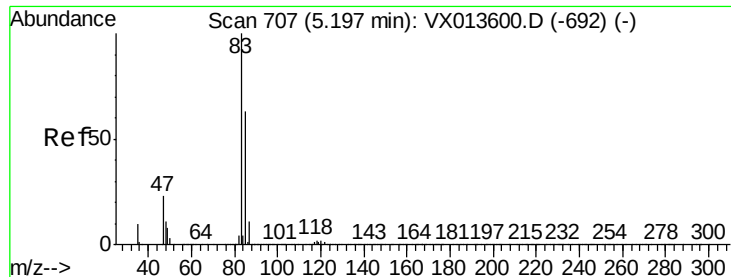
Ion Ratio Lower Upper

42 100

72 43.6 36.3 54.5

71 42.6 33.2 49.8

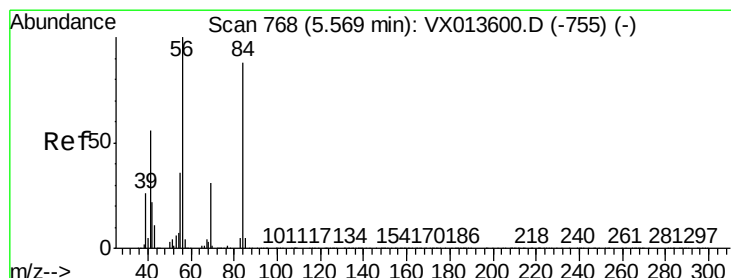
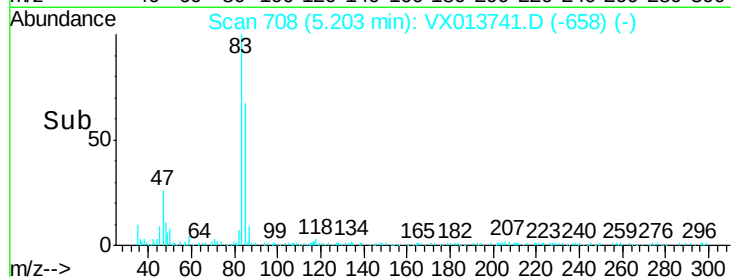
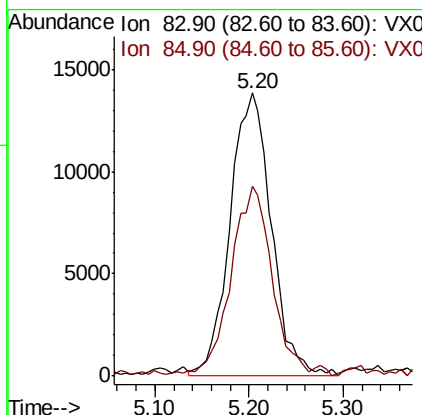
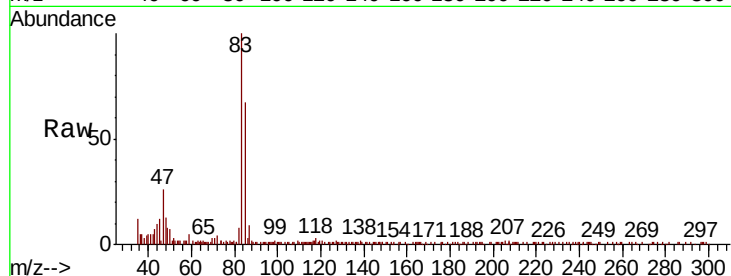




#30  
Chloroform  
Concen: 3.043 ug/l  
RT: 5.20 min Scan# 708  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

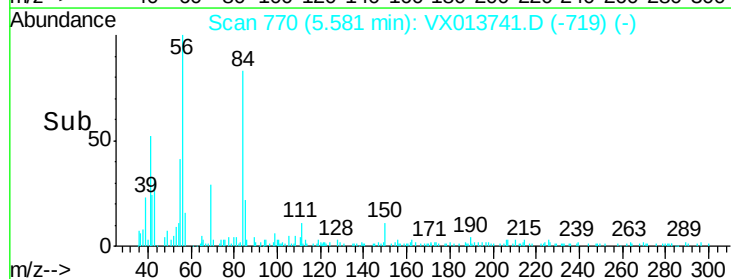
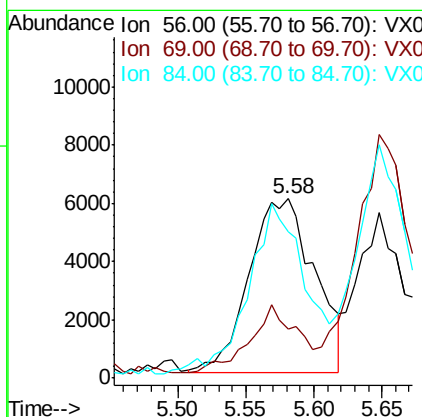
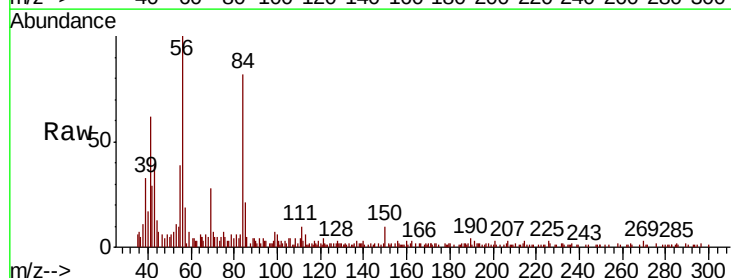
Instrument :  
MSVOA\_X  
ClientSampleId :  
30736

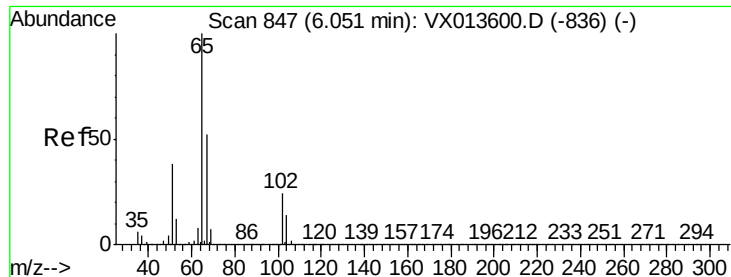
Tot Ion: 83 Resp: 42326  
Ion Ratio Lower Upper  
83 100  
85 65.9 50.2 75.4



#31  
Cyclohexane  
Concen: 1.557 ug/l  
RT: 5.58 min Scan# 770  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion: 56 Resp: 20146  
Ion Ratio Lower Upper  
56 100  
69 20.8 24.6 36.8#  
84 78.2 70.0 105.0

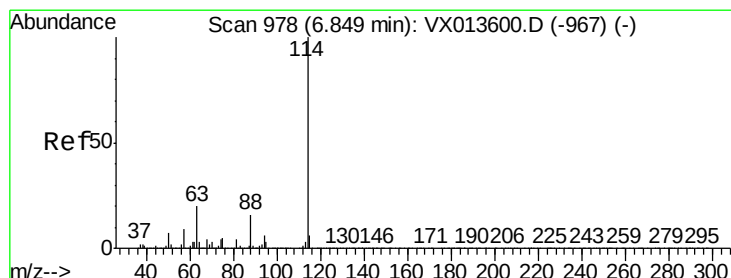
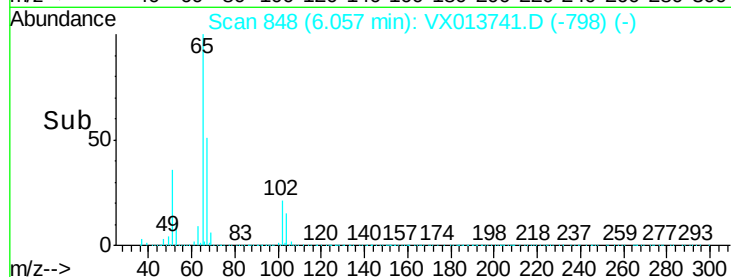
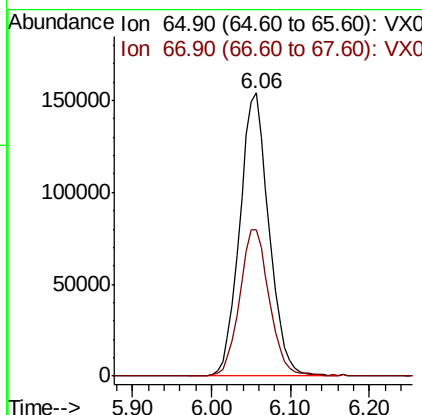
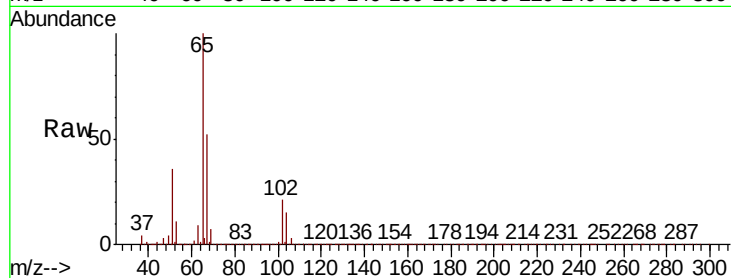




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.140 ug/l  
 RT: 6.06 min Scan# 848  
 Delta R.T. 0.01 min  
 Lab File: VX013741.D  
 Acq: 03 Dec 2019 21:37

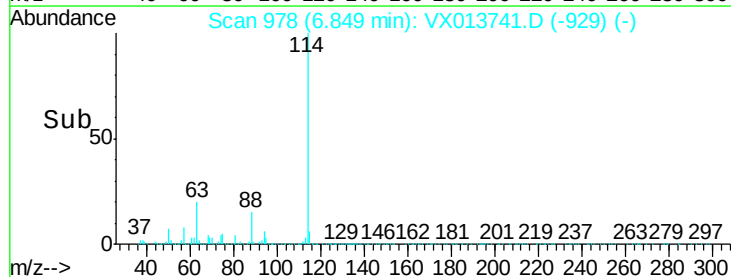
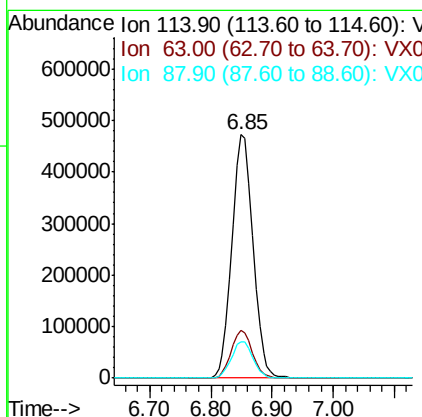
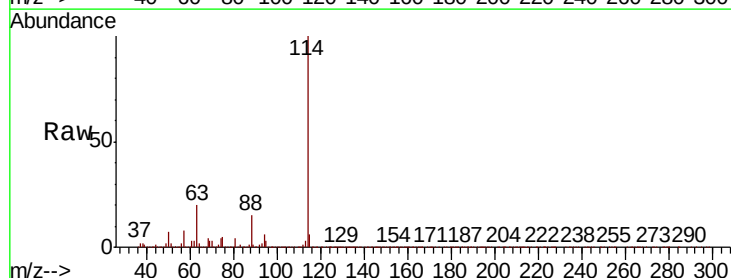
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 30736

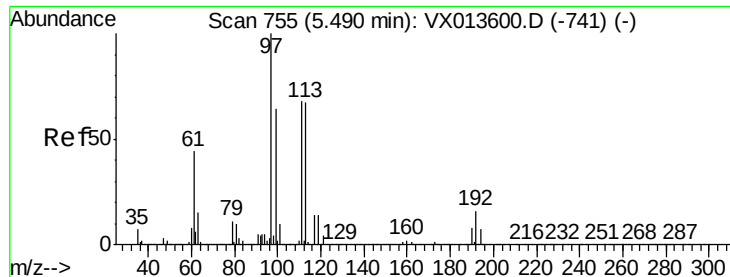
Tot Ion: 65 Resp: 395283  
 Ion Ratio Lower Upper  
 65 100  
 67 53.0 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX013741.D  
 Acq: 03 Dec 2019 21:37

Tgt Ion: 114 Resp: 1119916  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 39.6  
 88 14.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.105 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

30736

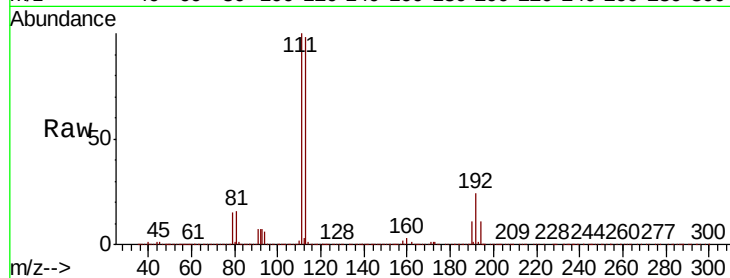
Tot Ion:113 Resp: 333055

Ion Ratio Lower Upper

113 100

111 104.4 83.6 125.4

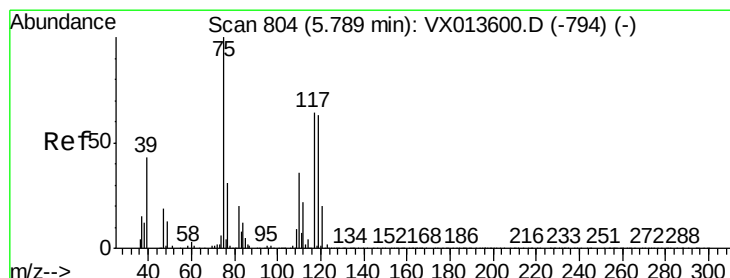
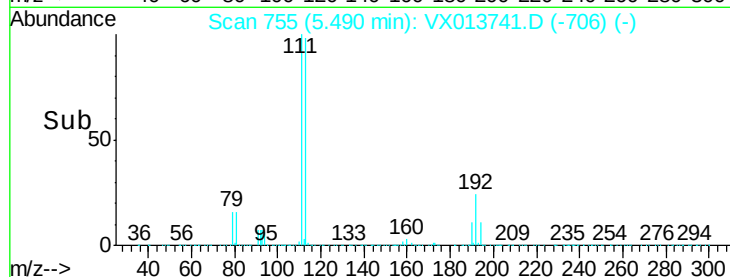
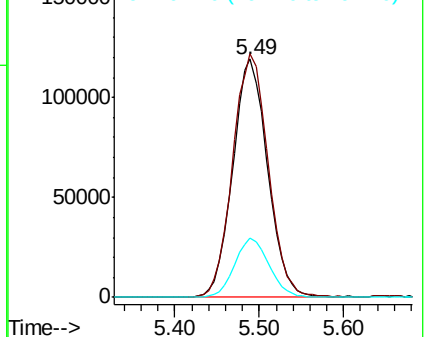
192 24.5 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.796 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

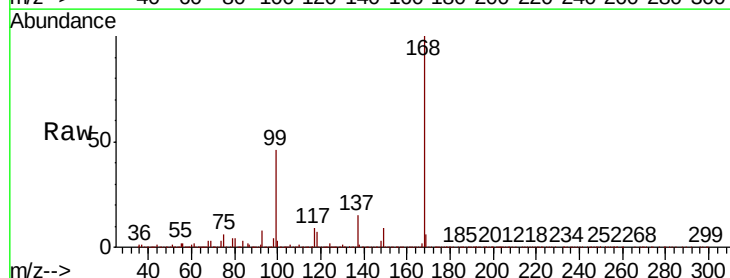
Tgt Ion: 75 Resp: 48761

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.1#

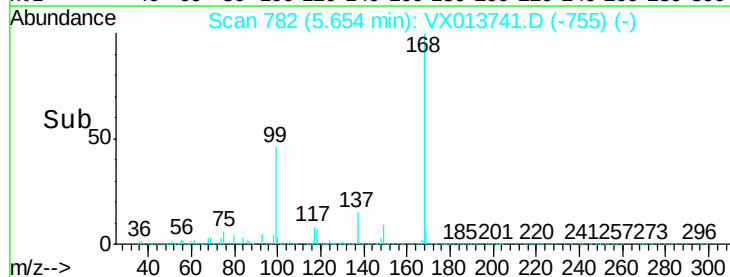
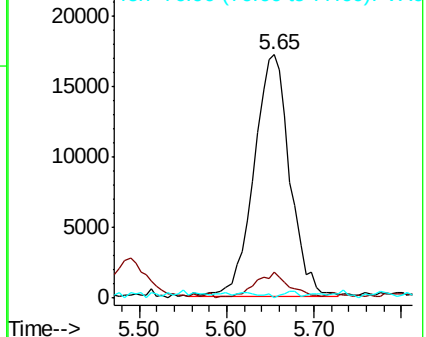
77 0.0 24.5 36.7#

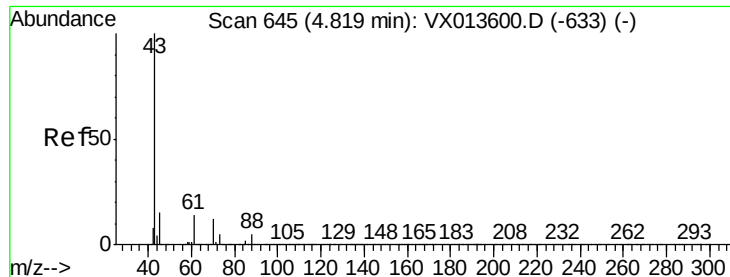


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 19.078 ug/l

RT: 4.66 min Scan# 619

Delta R.T. -0.16 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

30736

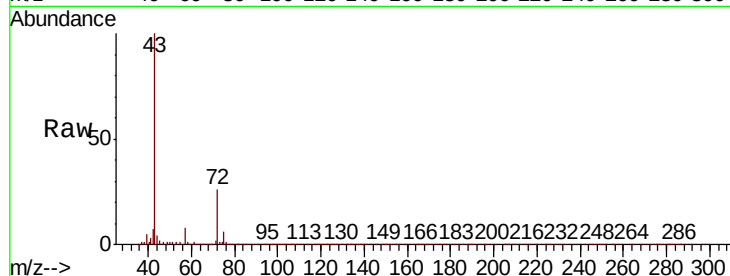
Tot Ion: 43 Resp: 217575

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

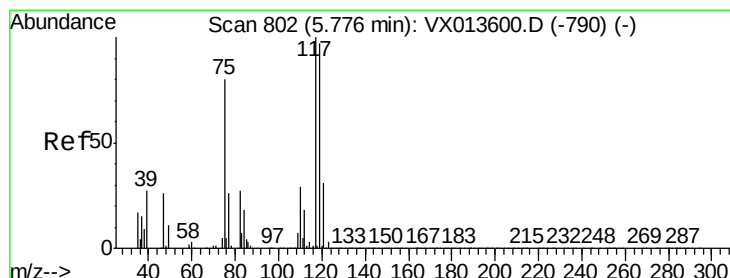
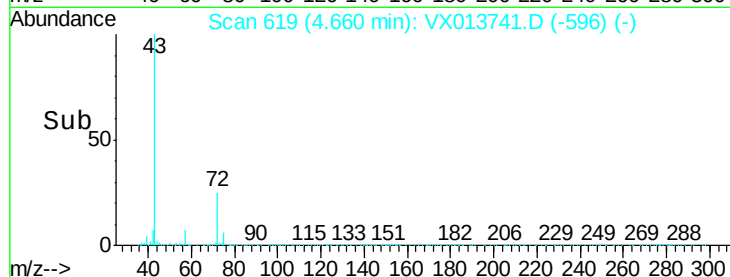
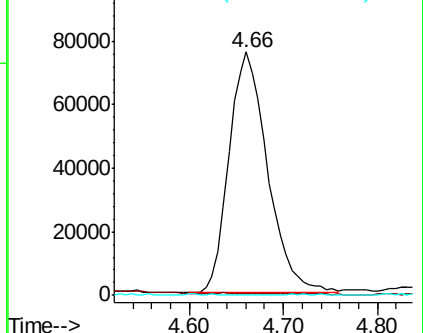
70 0.1 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.902 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

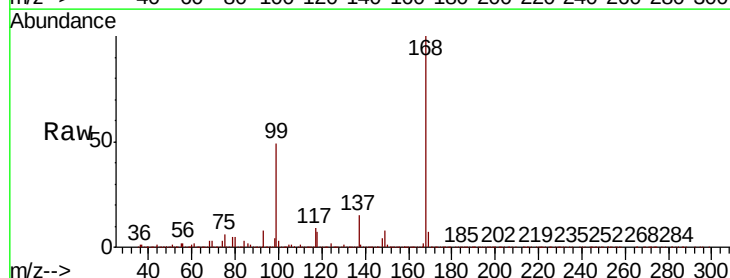
Tgt Ion: 117 Resp: 64700

Ion Ratio Lower Upper

117 100

119 5.3 77.5 116.3#

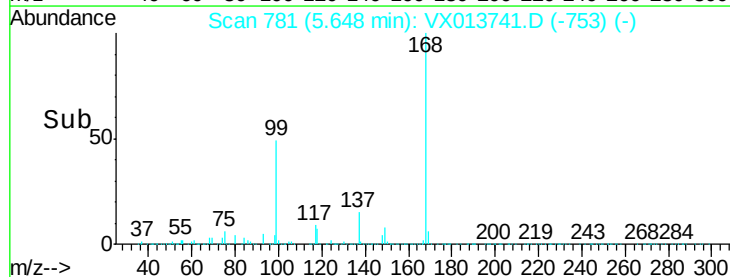
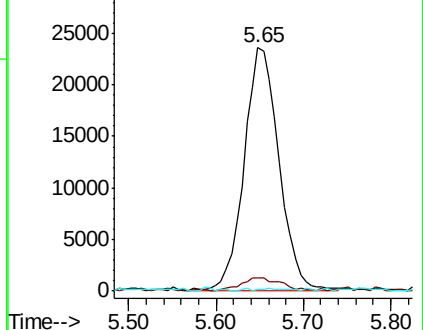
121 0.6 25.0 37.6#

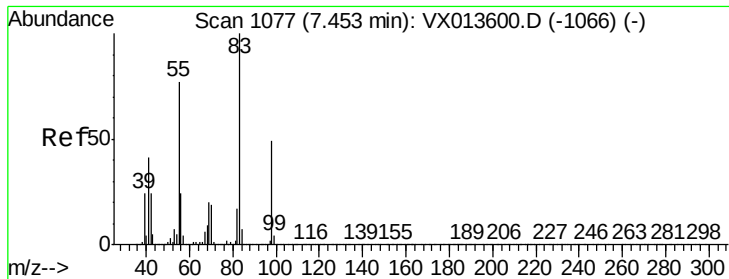


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

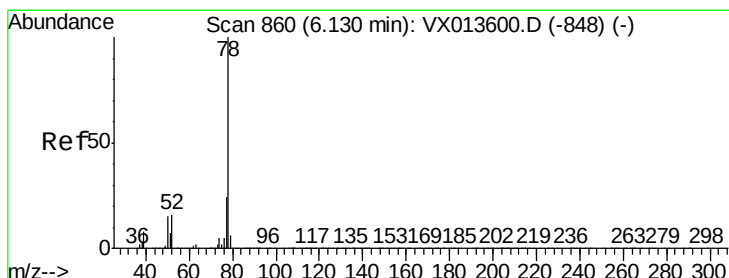
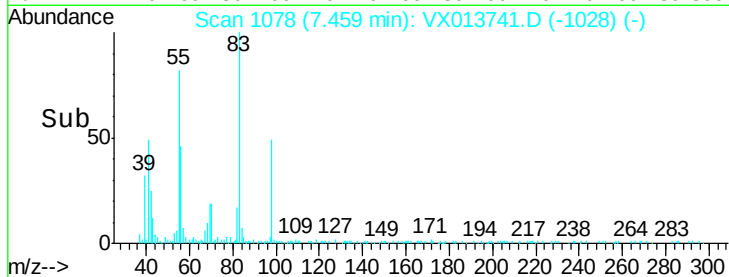
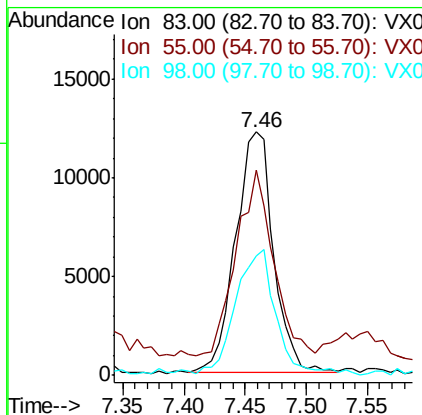
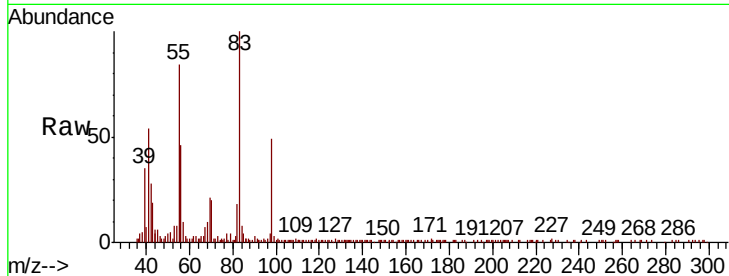




#39  
Methvlcvclohexane  
Concen: 2.100 ug/l  
RT: 7.46 min Scan# 1078  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

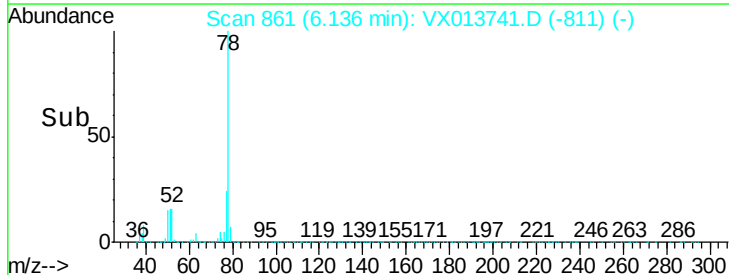
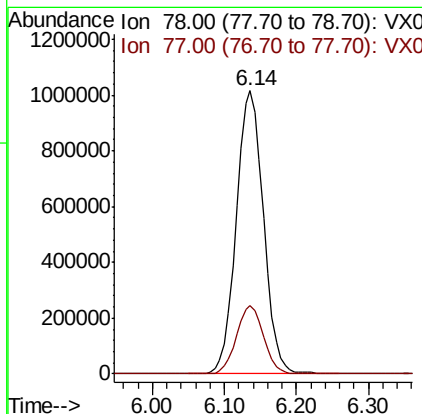
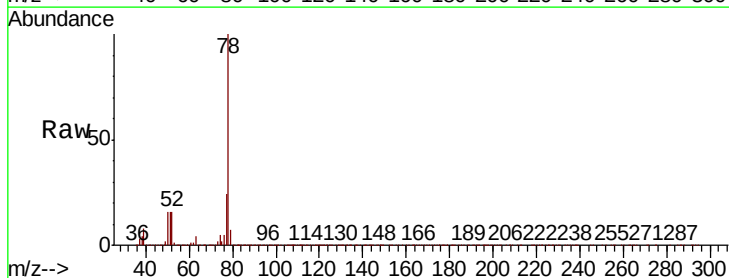
Instrument :  
MSVOA\_X  
ClientSampleId :  
30736

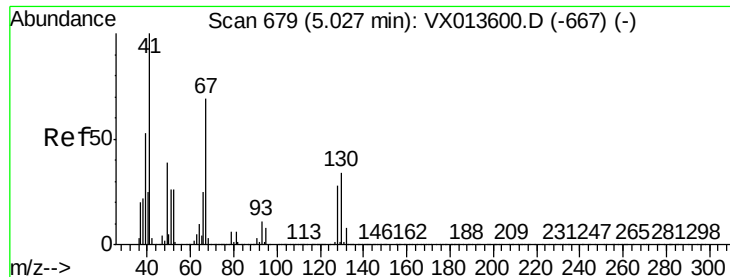
| Tot Ion | 83.00 | Resp  | 26387 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 55      | 76.6  | 61.9  | 92.9  |
| 98      | 48.6  | 39.4  | 59.0  |



#40  
Benzene  
Concen: 85.777 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

| Tgt Ion | 78.00 | Resp  | 2655864 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 78      | 100   |       |         |
| 77      | 24.1  | 19.0  | 28.4    |

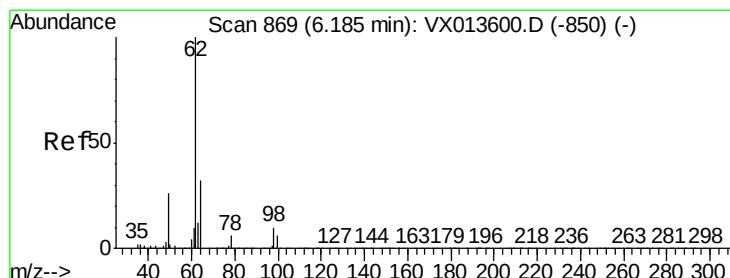
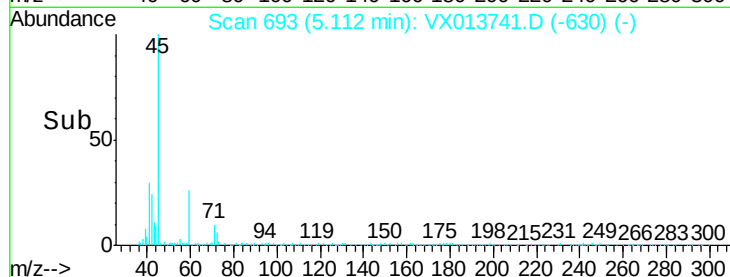
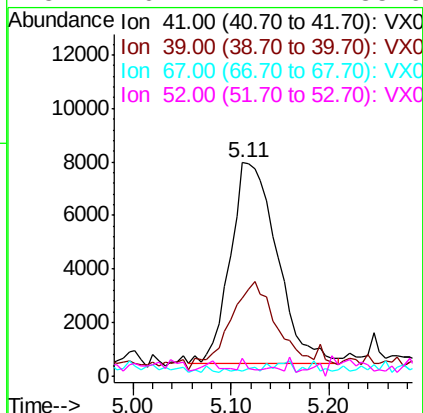
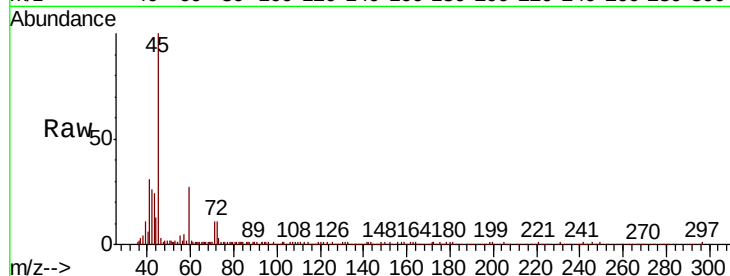




#41  
Methacrylonitrile  
Concen: 4.026 ug/l  
RT: 5.11 min Scan# 693  
Delta R.T. 0.08 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

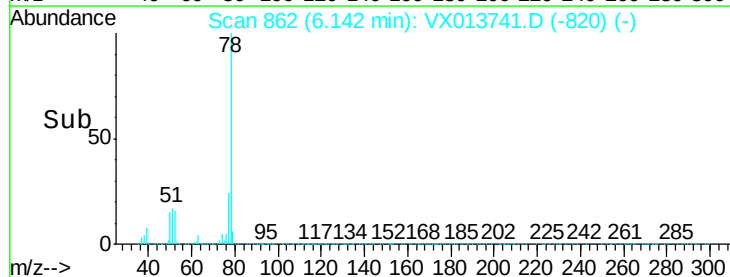
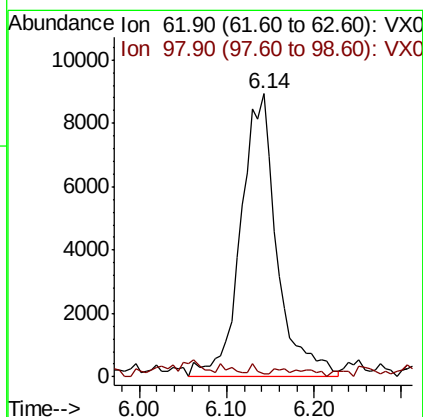
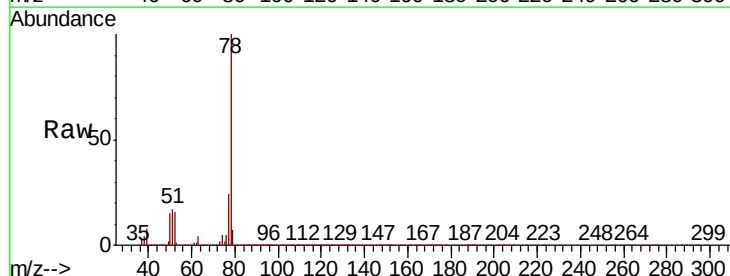
Instrument :  
MSVOA\_X  
ClientSampleId :  
30736

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 25179 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 46.2  | 42.9  | 64.3  |
| 67       | 0.0   | 57.4  | 86.0# |
| 52       | 0.7   | 22.4  | 33.6# |

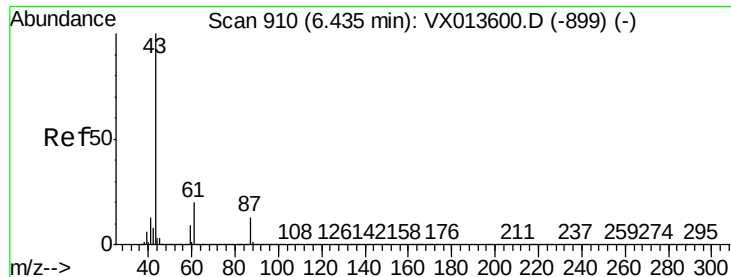


#42  
1,2-Dichloroethane  
Concen: 2.428 ug/l  
RT: 6.14 min Scan# 862  
Delta R.T. -0.04 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 25643 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 0.7   | 0.0   | 20.8  |







#43

Isopropyl Acetate

Concen: 17.387 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

30736

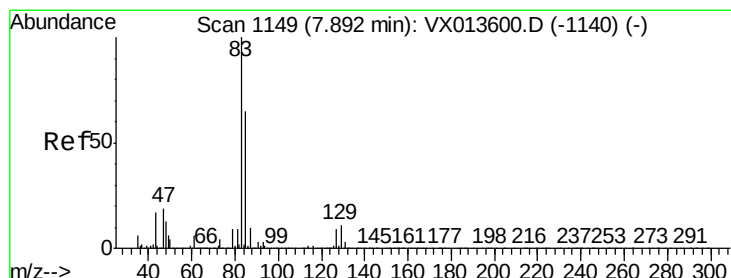
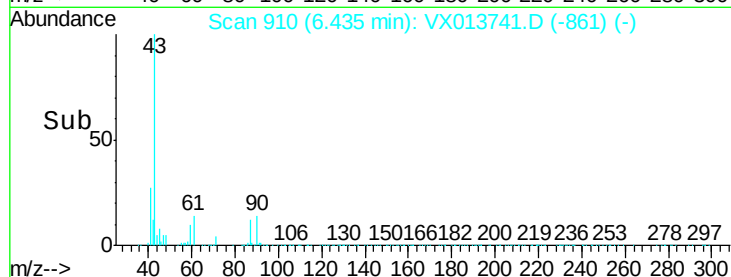
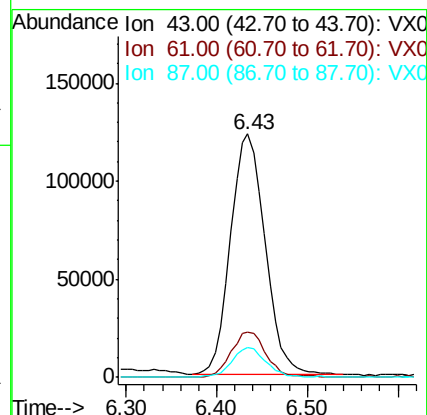
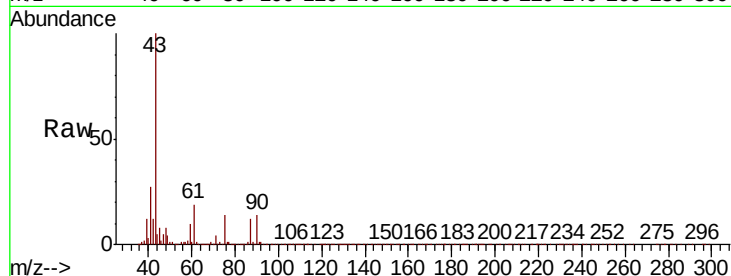
Tot Ion: 43 Resp: 326448

Ion Ratio Lower Upper

43 100

61 18.6 16.3 24.5

87 11.9 10.8 16.2



#47

Bromodichloromethane

Concen: 0.587 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

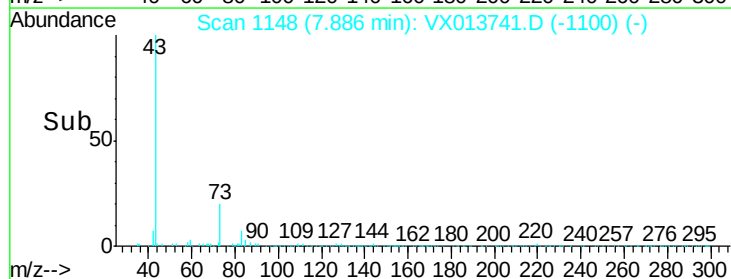
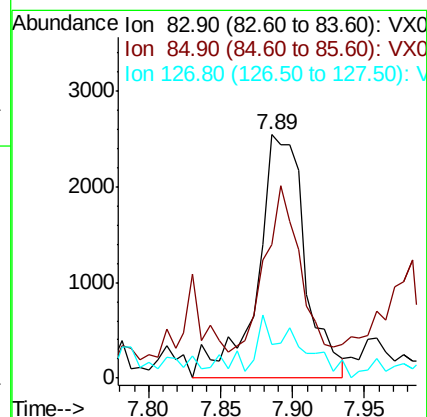
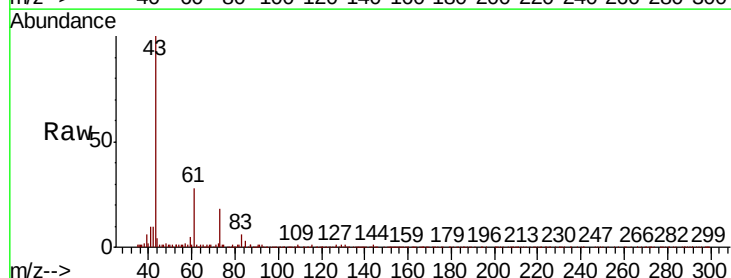
Tgt Ion: 83 Resp: 5841

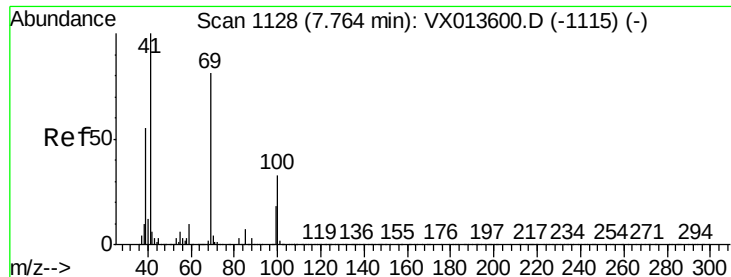
Ion Ratio Lower Upper

83 100

85 44.7 52.1 78.1#

127 6.7 7.0 10.4#

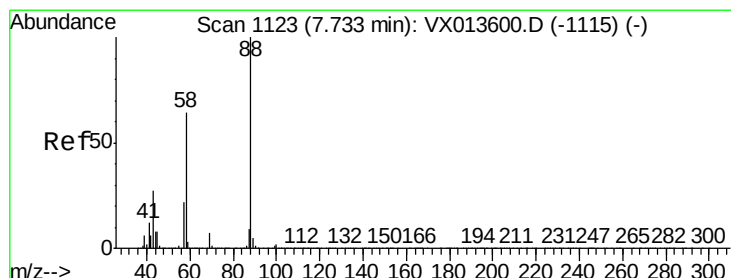
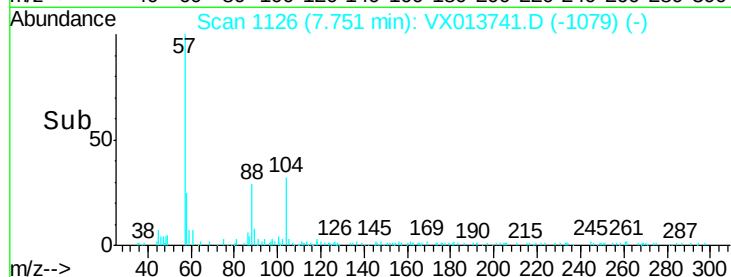
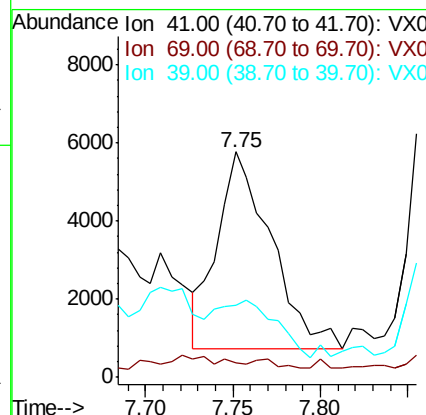
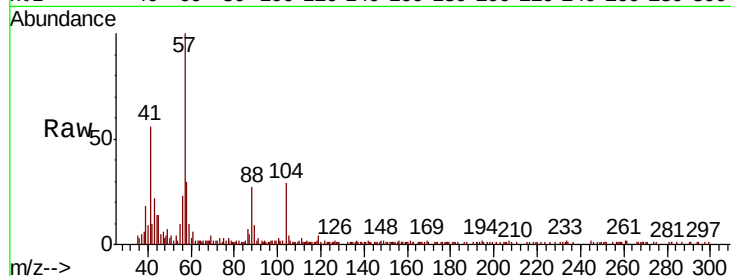




#48  
Methvl methacrylate  
Concen: 1.190 ug/l  
RT: 7.75 min Scan# 1126  
Delta R.T. -0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

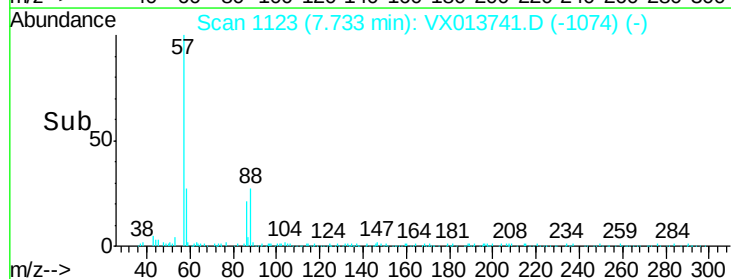
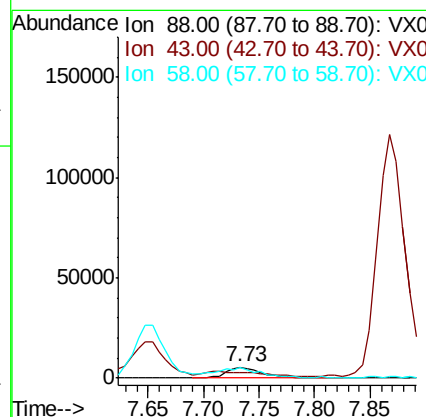
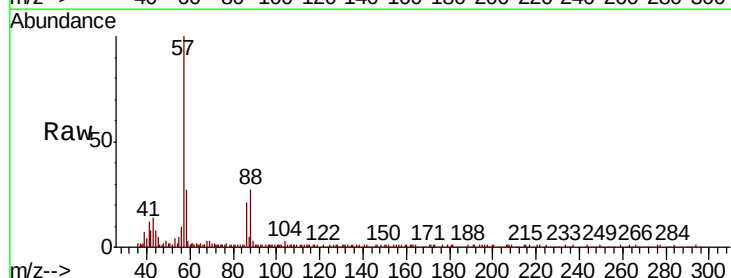
Instrument :  
MSVOA\_X  
ClientSampleId :  
30736

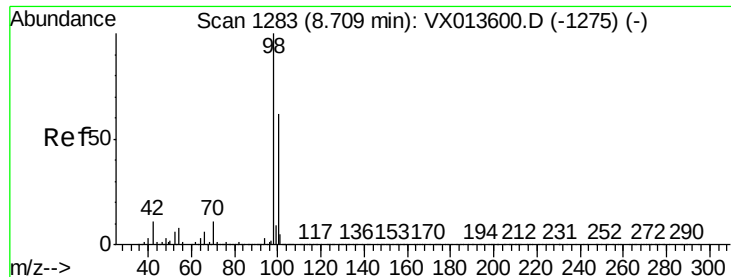
Tot Ion: 41 Resp: 10852  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.7 97.1#  
39 31.3 43.8 65.6#



#49  
1,4-Dioxane  
Concen: 58.437 ug/l  
RT: 7.73 min Scan# 1123  
Delta R.T. -0.00 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion: 88 Resp: 11933  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.8 38.6#  
58 104.5 54.6 82.0#





#50

Toluene-d8

Concen: 49.373 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

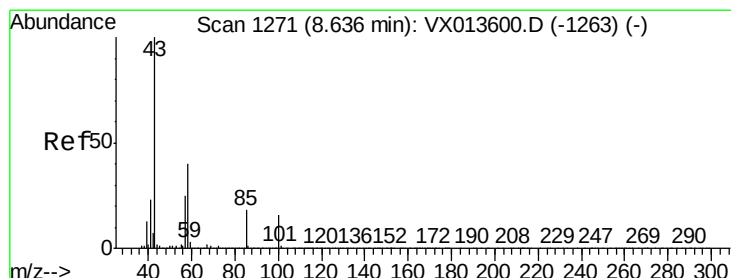
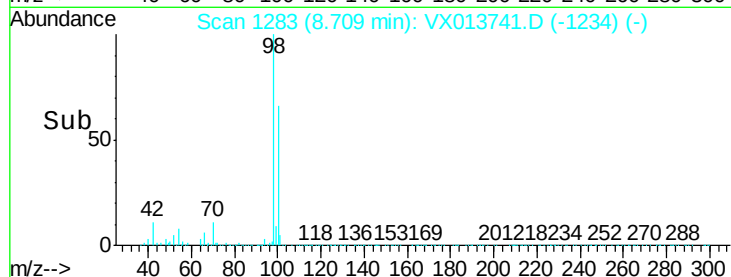
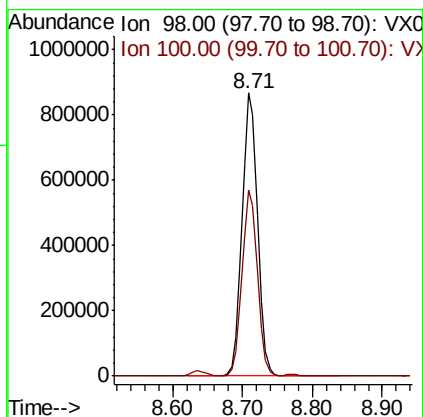
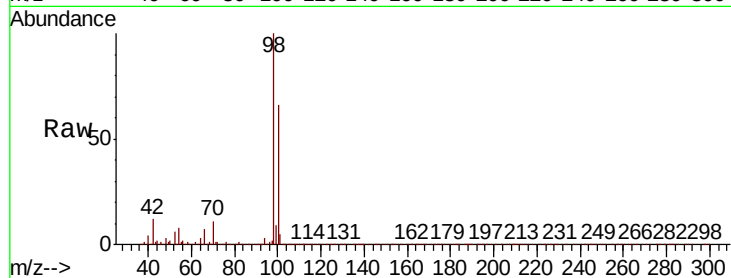
30736

Tot Ion: 98 Resp: 1331813

Ion Ratio Lower Upper

98 100

100 65.0 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 12.397 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013741.D

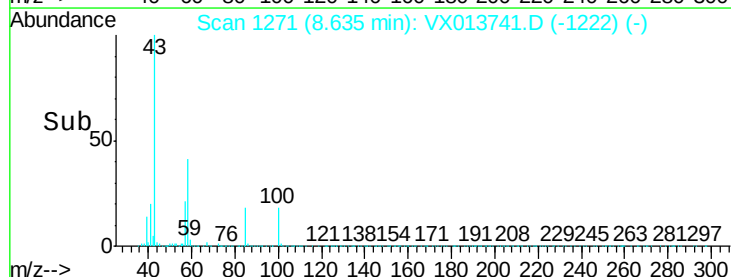
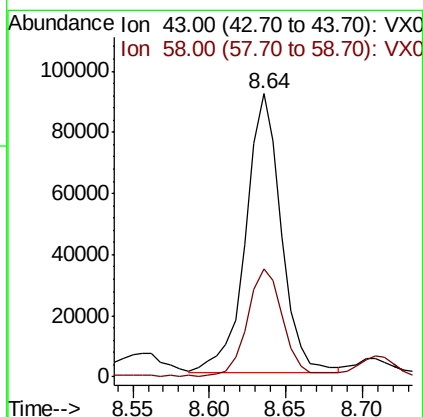
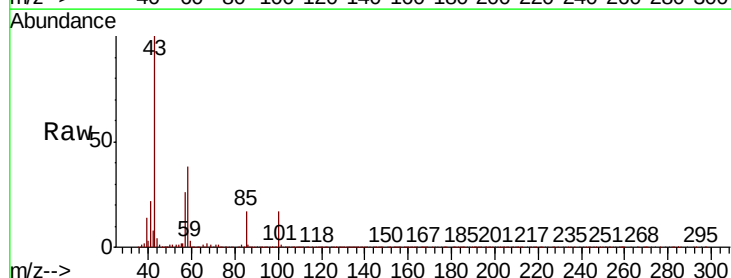
Acq: 03 Dec 2019 21:37

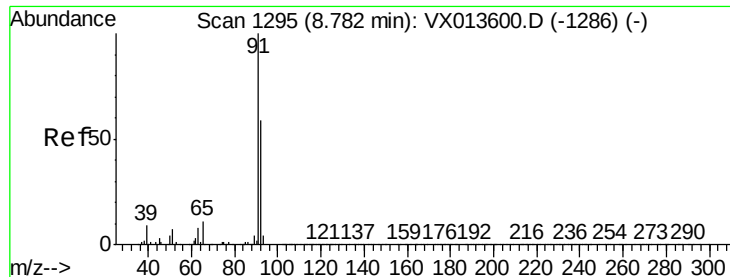
Tgt Ion: 43 Resp: 146412

Ion Ratio Lower Upper

43 100

58 38.1 32.1 48.1





#52

Toluene

Concen: 145.887 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

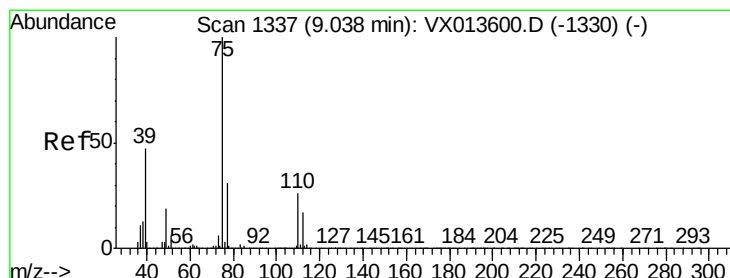
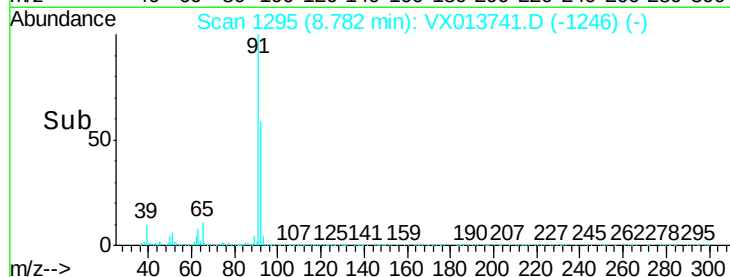
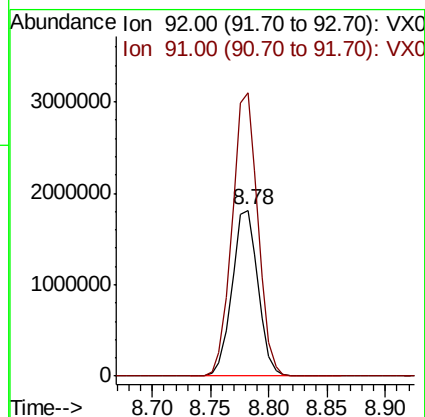
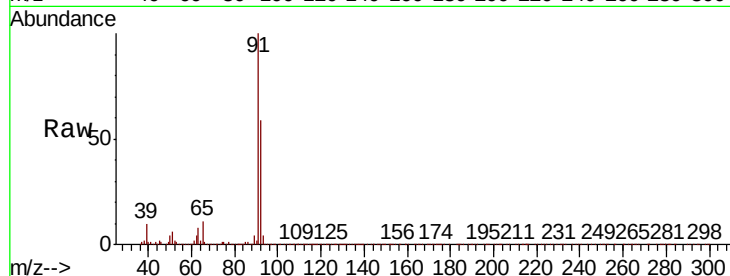
30736

Tot Ion: 92 Resp: 2806134

Ion Ratio Lower Upper

92 100

91 169.8 136.2 204.2



#53

t-1,3-Dichloropropene

Concen: 0.954 ug/l

RT: 8.96 min Scan# 1324

Delta R.T. -0.08 min

Lab File: VX013741.D

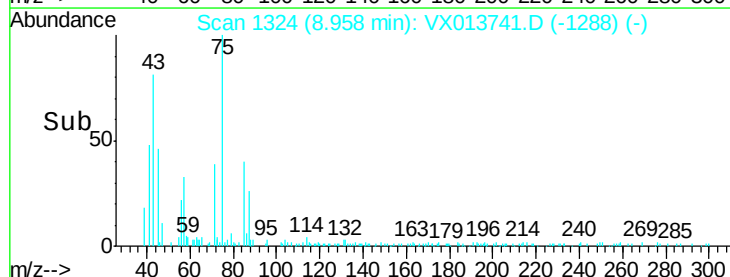
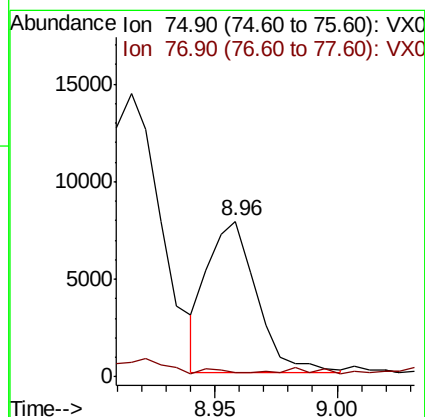
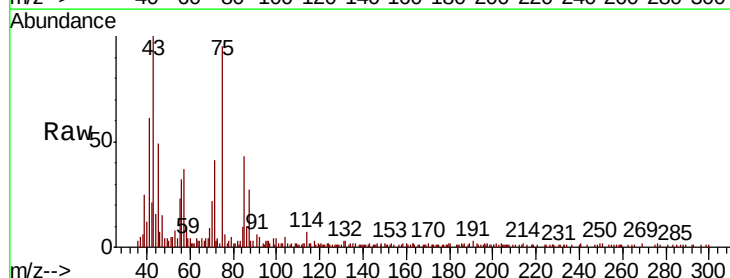
Acq: 03 Dec 2019 21:37

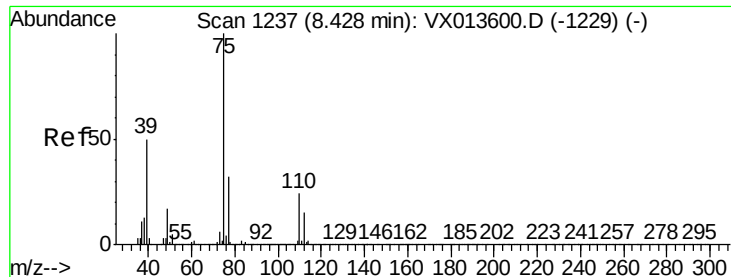
Tgt Ion: 75 Resp: 10798

Ion Ratio Lower Upper

75 100

77 0.9 24.4 36.6#





#54

cis-1,3-Dichloropropene

Concen: 0.825 ug/l

RT: 8.40 min Scan# 1232

Delta R.T. -0.03 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

30736

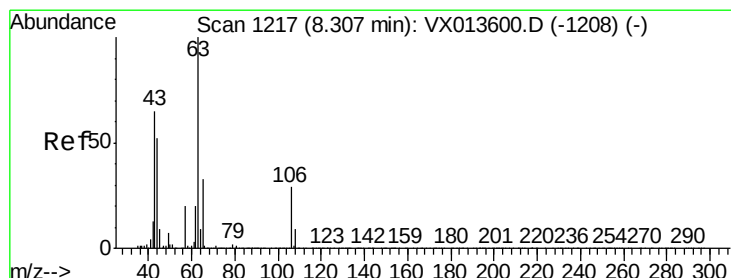
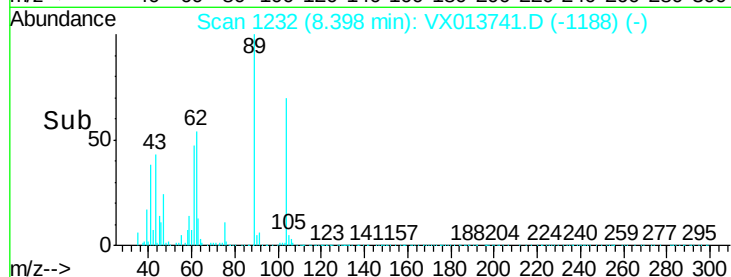
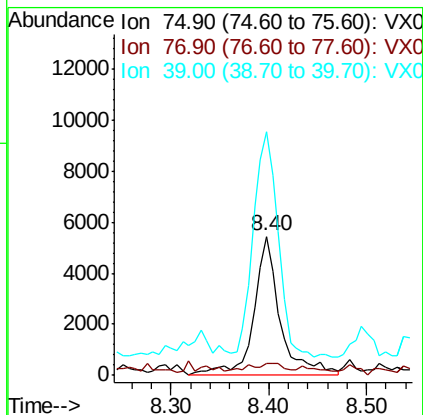
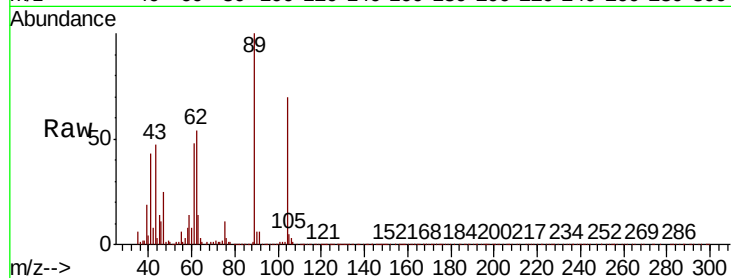
Tot Ion: 75 Resp: 10208

Ion Ratio Lower Upper

75 100

77 6.2 25.8 38.6#

39 161.9 39.9 59.9#



#58

2-Chloroethyl Vinyl ether

Concen: 2.340 ug/l

RT: 8.40 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VX013741.D

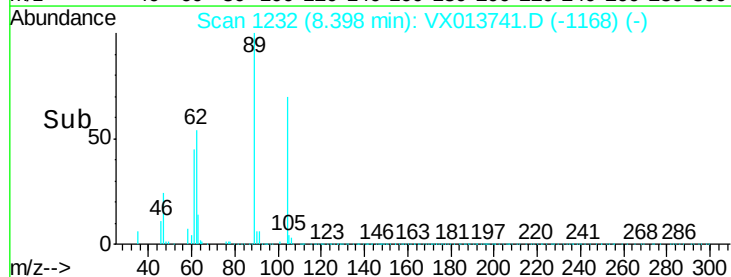
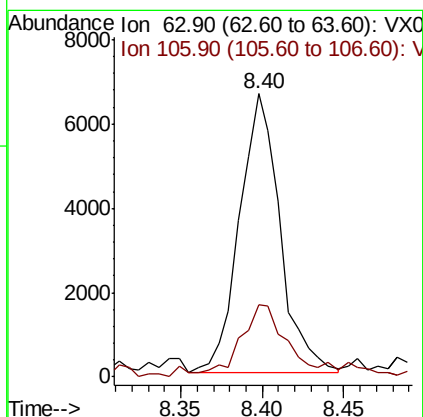
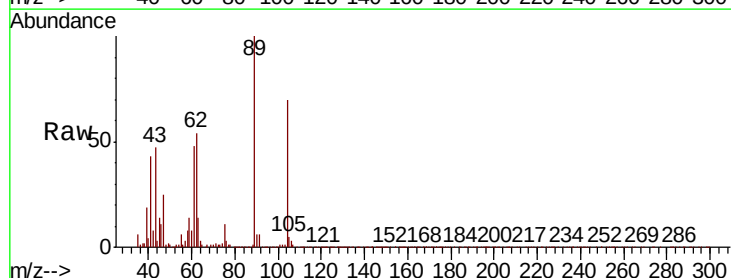
Acq: 03 Dec 2019 21:37

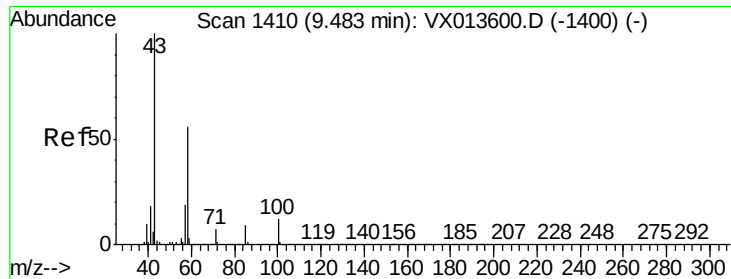
Tgt Ion: 63 Resp: 11435

Ion Ratio Lower Upper

63 100

106 24.1 23.4 35.0

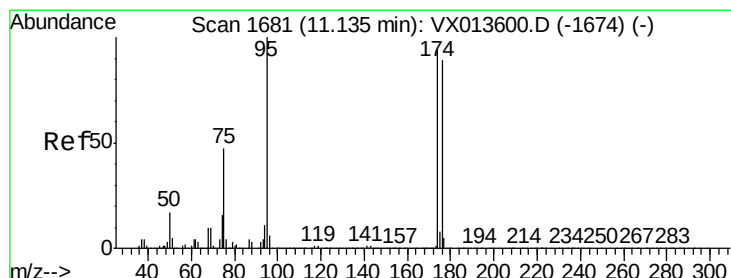
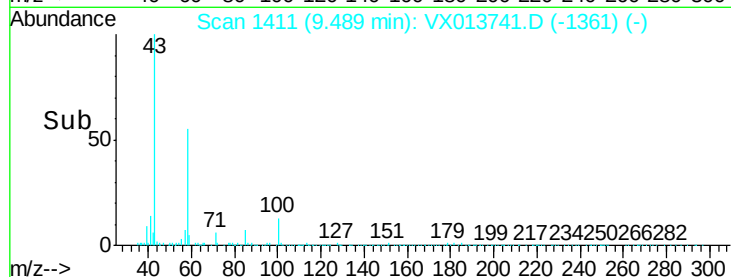
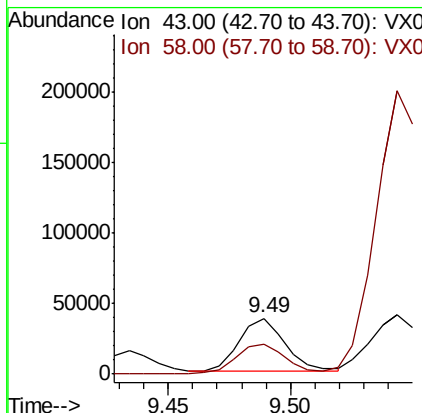
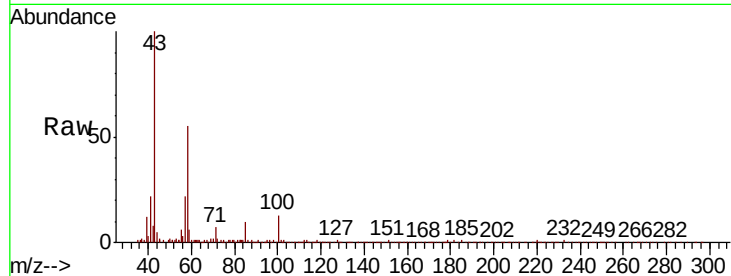




#59  
2-Hexanone  
Concen: 5.429 ug/l  
RT: 9.49 min Scan# 1411  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

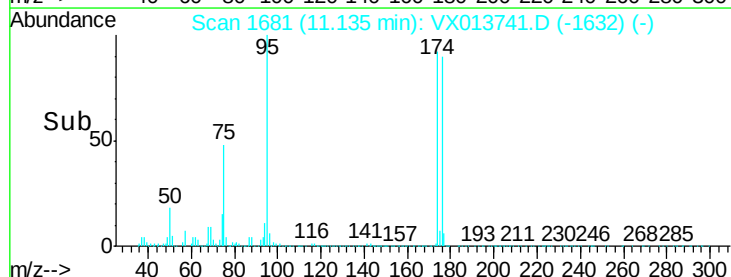
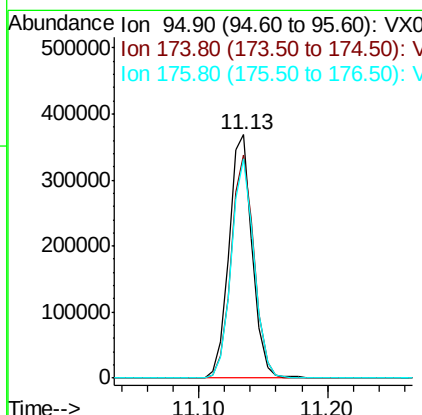
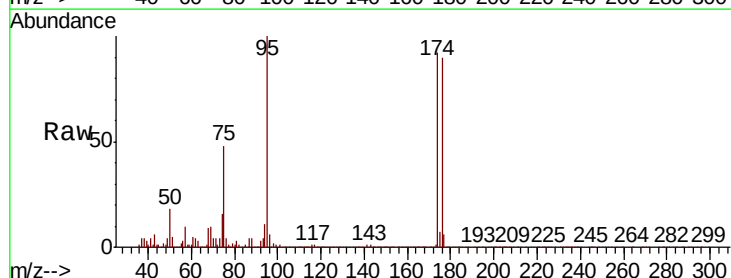
Instrument :  
MSVOA\_X  
ClientSampled :  
30736

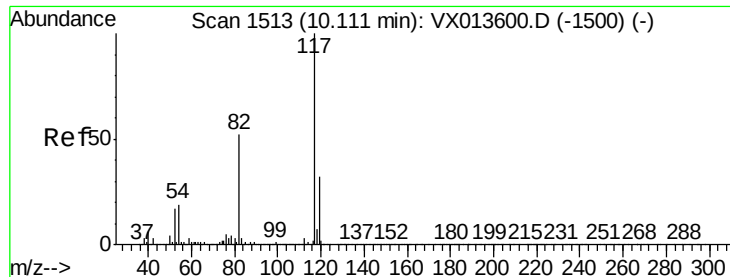
Tot Ion: 43 Resp: 50009  
Ion Ratio Lower Upper  
43 100  
58 61.3 28.1 84.4



#62  
4-Bromofluorobenzene  
Concen: 47.945 ug/l  
RT: 11.13 min Scan# 1681  
Delta R.T. -0.00 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion: 95 Resp: 466367  
Ion Ratio Lower Upper  
95 100  
174 90.2 0.0 180.0  
176 88.3 0.0 173.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

30736

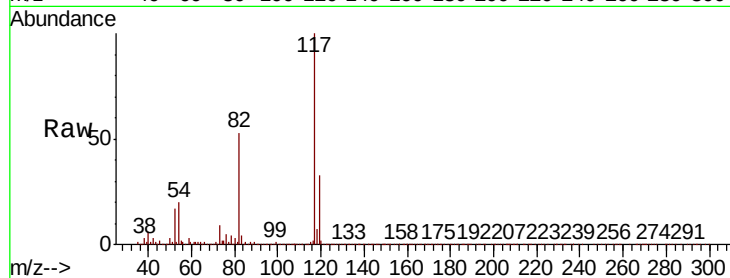
Tot Ion:117 Resp: 996221

Ion Ratio Lower Upper

117 100

82 52.9 41.8 62.8

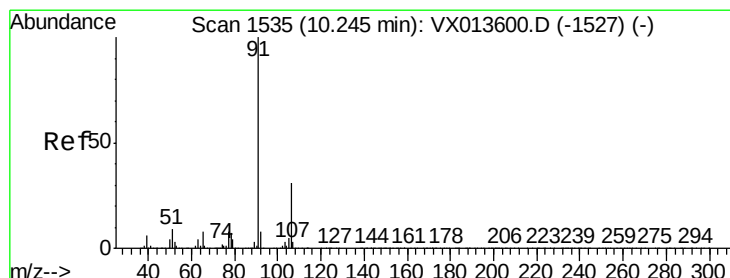
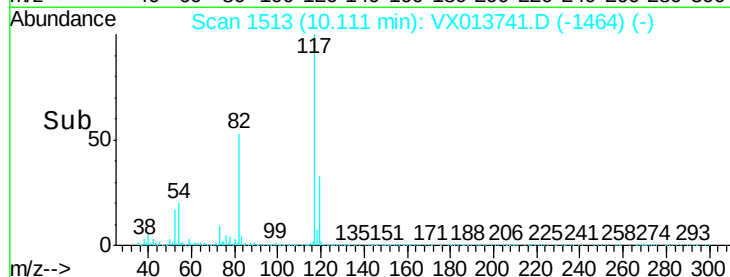
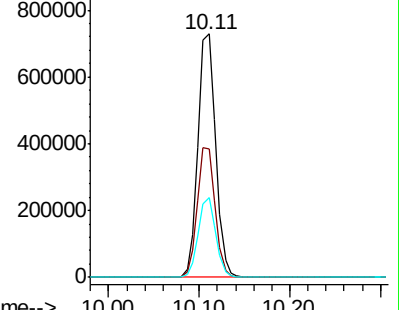
119 32.6 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 11.148 ug/l

RT: 10.24 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX013741.D

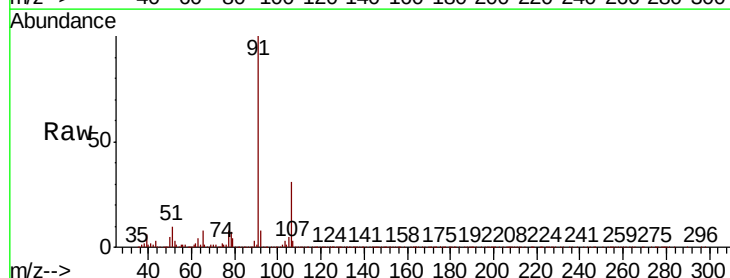
Acq: 03 Dec 2019 21:37

Tgt Ion: 91 Resp: 396242

Ion Ratio Lower Upper

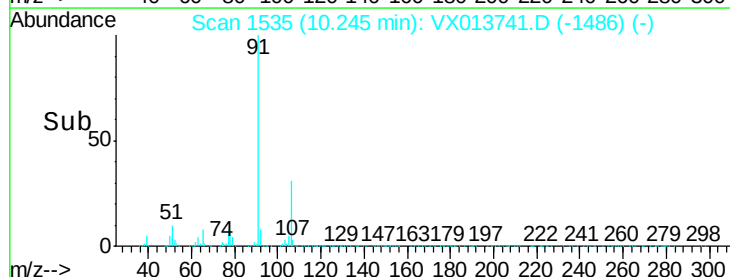
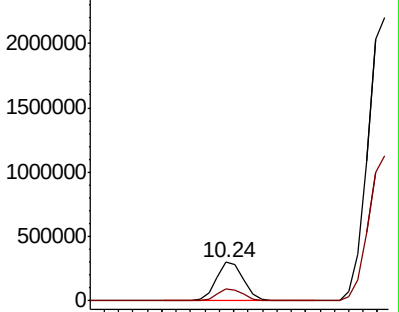
91 100

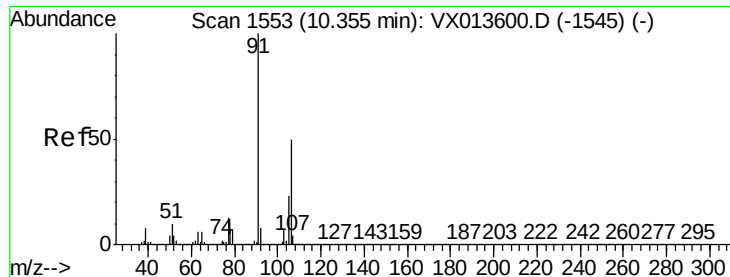
106 30.8 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 108.132 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

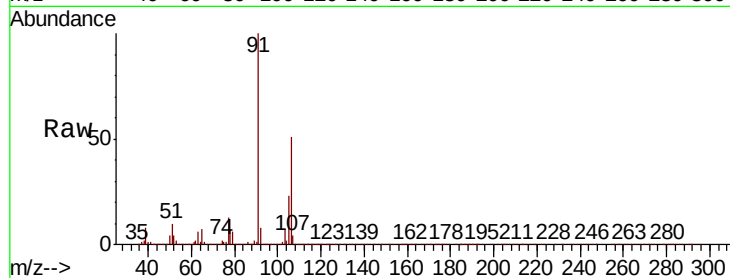
30736

Tot Ion:106 Resp: 1471414

Ion Ratio Lower Upper

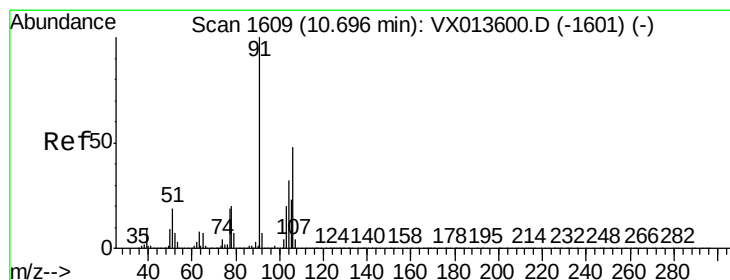
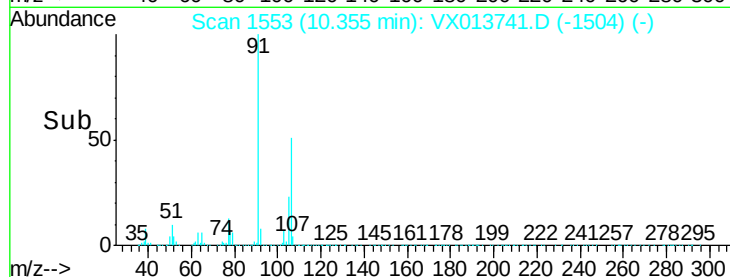
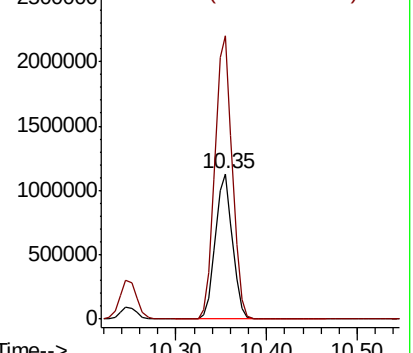
106 100

91 197.8 159.0 238.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 33.462 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. -0.00 min

Lab File: VX013741.D

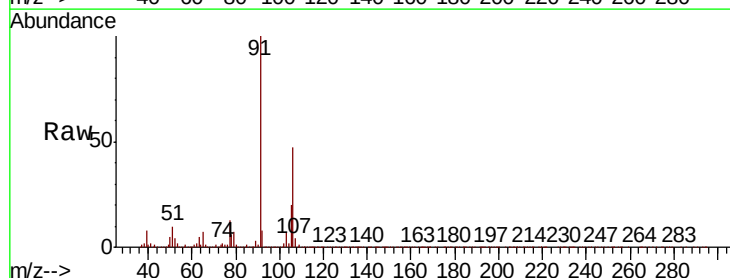
Acq: 03 Dec 2019 21:37

Tgt Ion:106 Resp: 444091

Ion Ratio Lower Upper

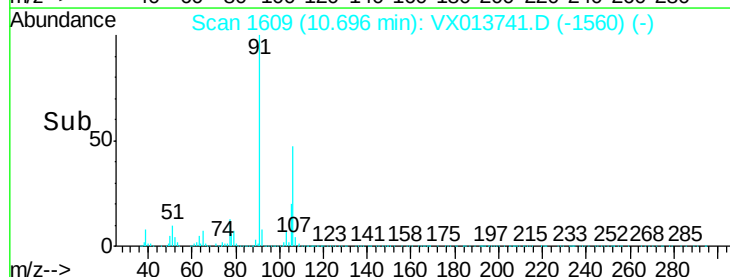
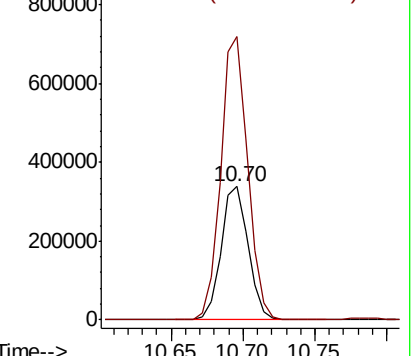
106 100

91 211.2 104.1 312.2

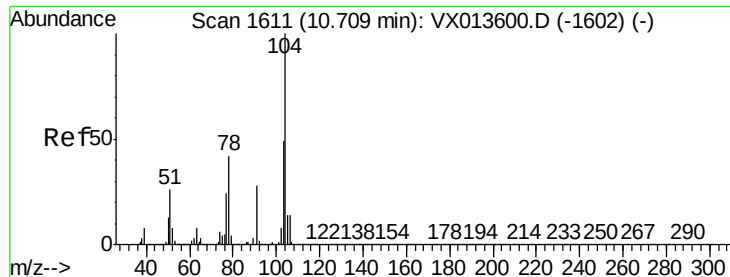


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



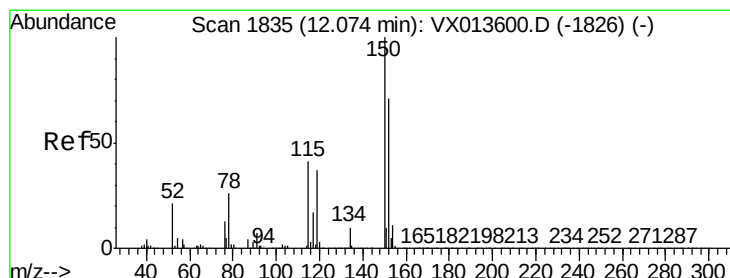
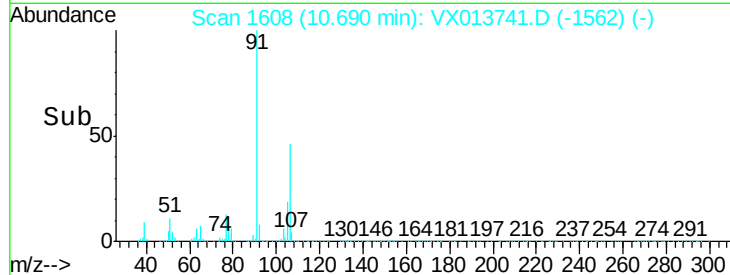
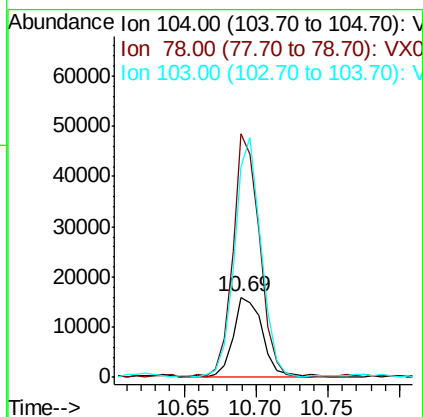
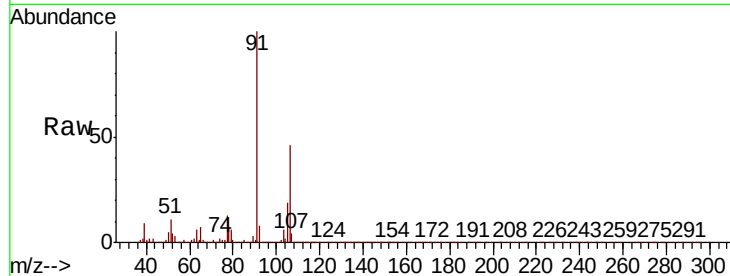




#70  
Stvrene  
Concen: 1.001 ug/l  
RT: 10.69 min Scan# 1608  
Delta R.T. -0.02 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

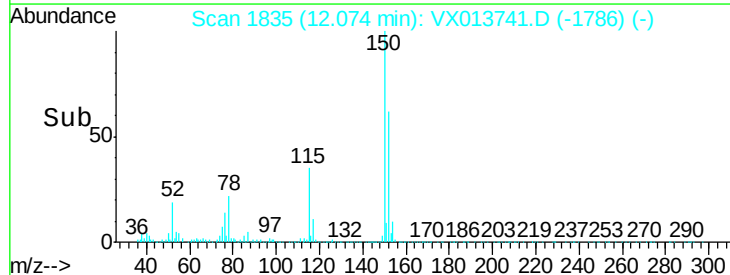
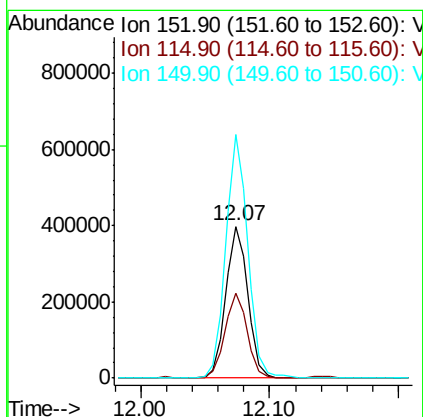
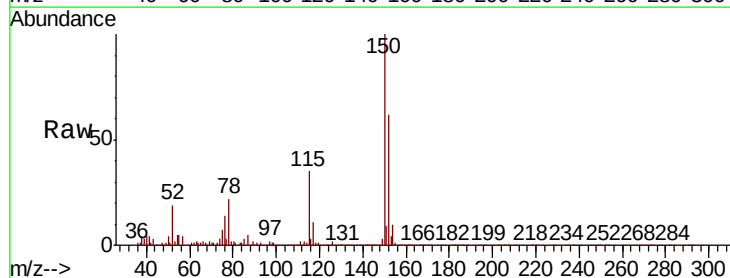
Instrument :  
MSVOA\_X  
ClientSampleId :  
30736

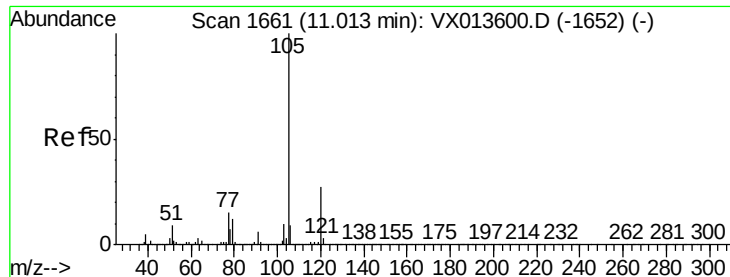
Tot Ion:104 Resp: 22347  
Ion Ratio Lower Upper  
104 100  
78 281.3 38.5 57.7#  
103 271.6 43.7 65.5#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion:152 Resp: 481229  
Ion Ratio Lower Upper  
152 100  
115 55.9 38.4 115.1  
150 160.4 0.0 346.8





#73

Isopropylbenzene

Concen: 2.111 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

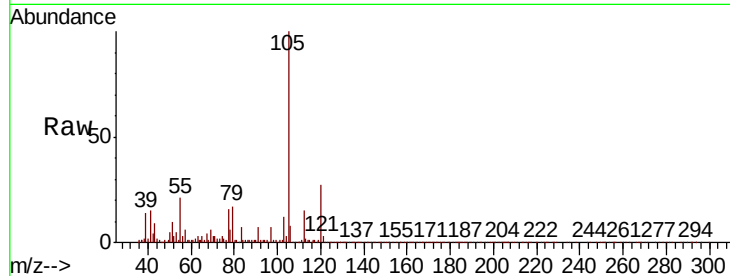
30736

Tot Ion:105 Resp: 71257

Ion Ratio Lower Upper

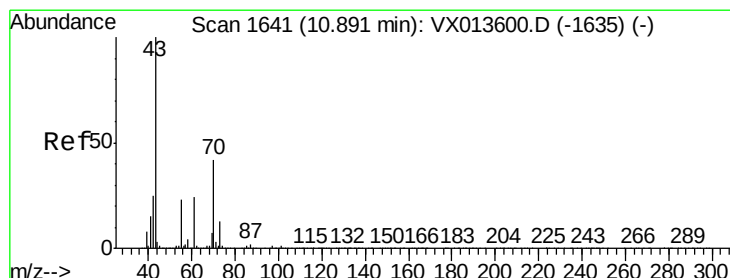
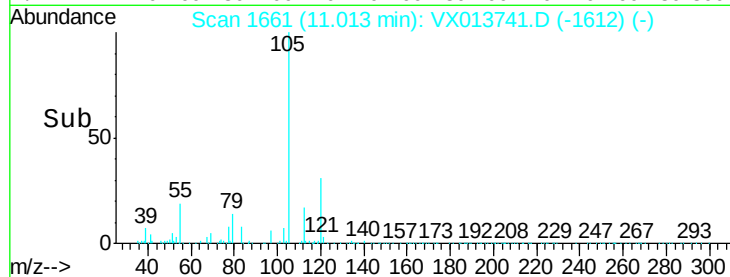
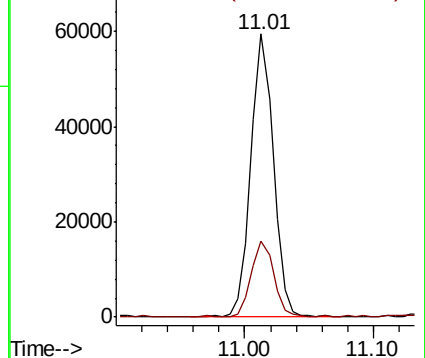
105 100

120 26.5 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 13.779 ug/l

RT: 10.81 min Scan# 1627

Delta R.T. -0.09 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Tgt Ion: 43 Resp: 213066

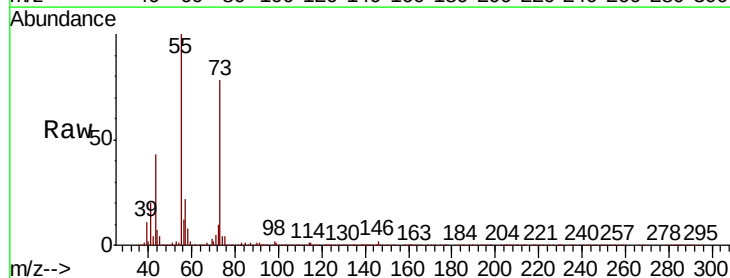
Ion Ratio Lower Upper

43 100

70 3.2 34.3 51.5#

55 166.1 18.5 27.7#

61 0.0 19.8 29.8#

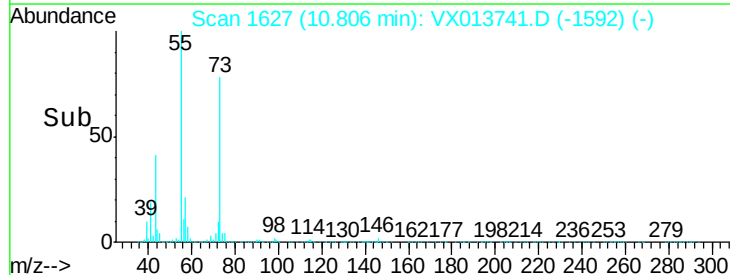
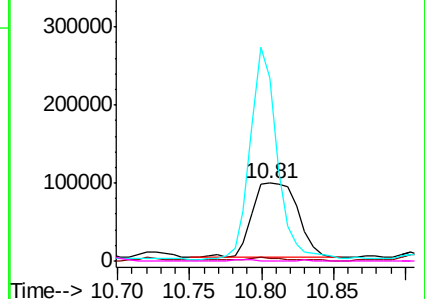


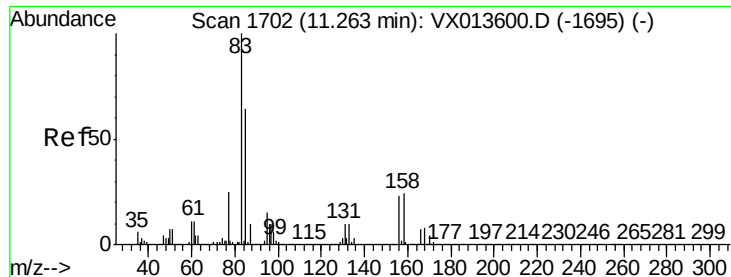
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 0.261 ug/l

RT: 11.24 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampled :

30736

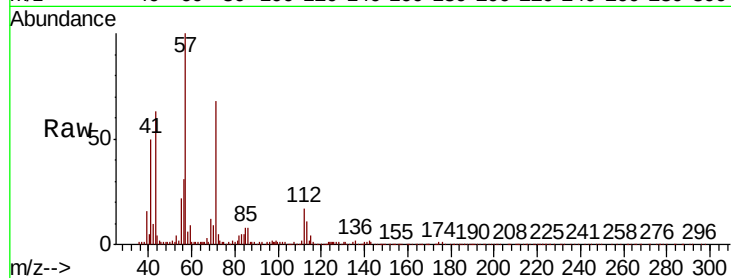
Tot Ion: 83 Resp: 3051

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

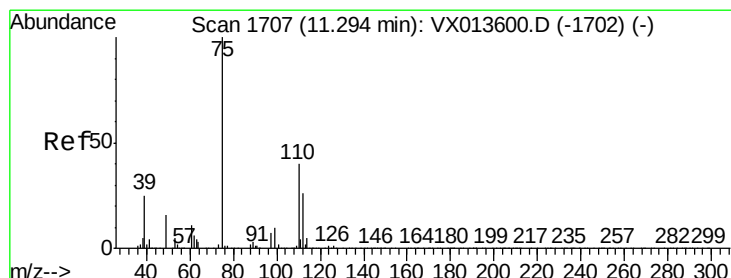
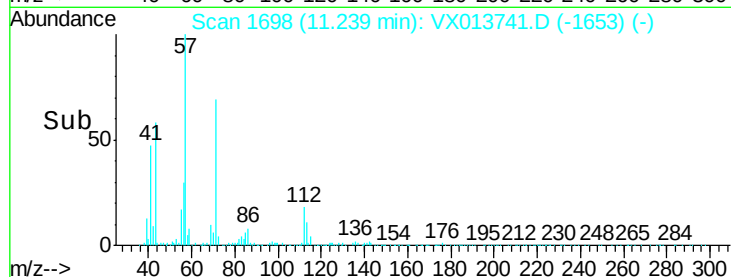
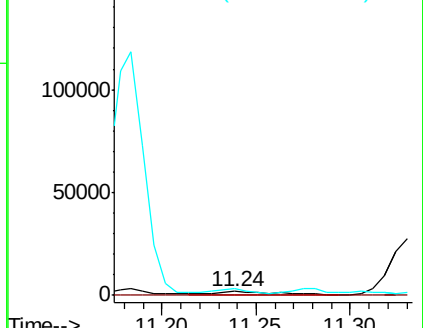
85 0.0 31.8 95.3#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.157 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013741.D

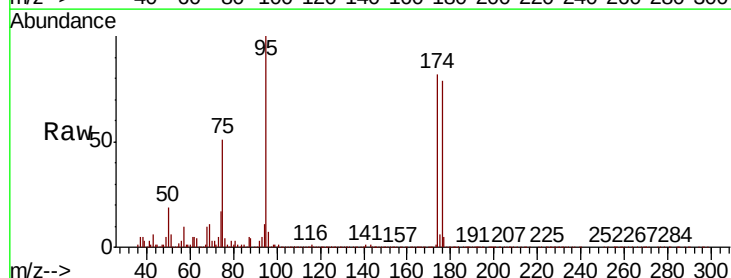
Acq: 03 Dec 2019 21:37

Tgt Ion: 75 Resp: 228996

Ion Ratio Lower Upper

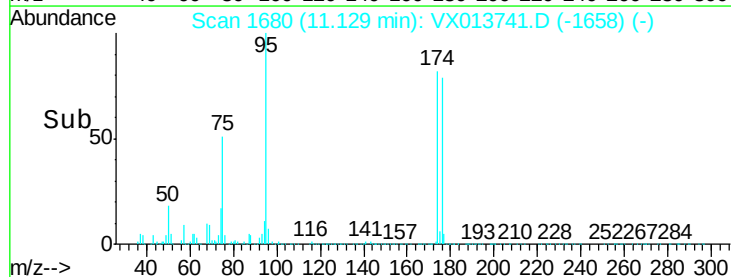
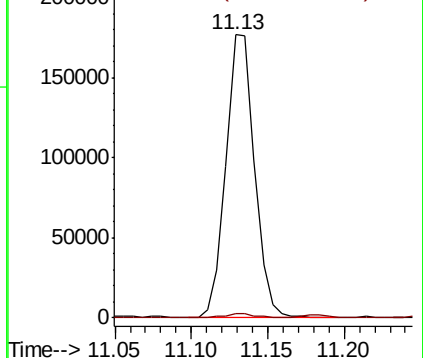
75 100

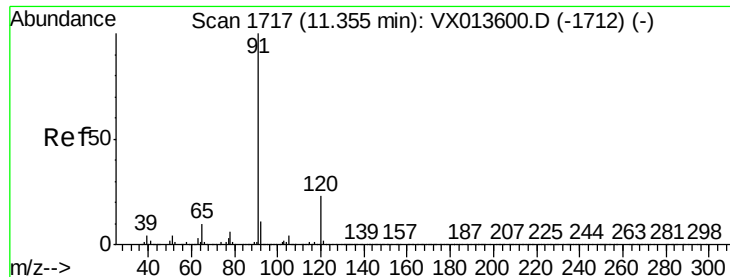
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 1.449 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampled :

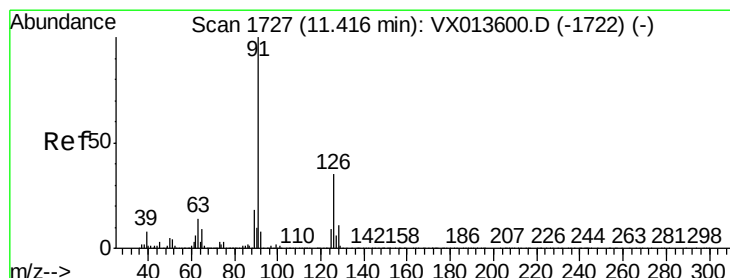
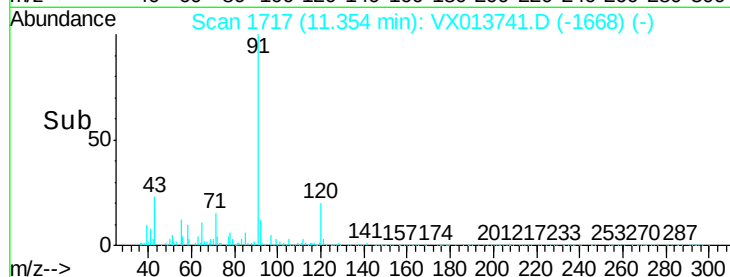
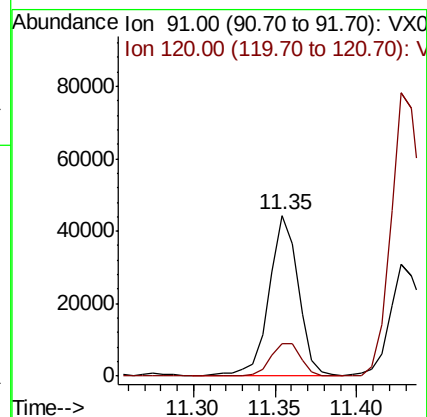
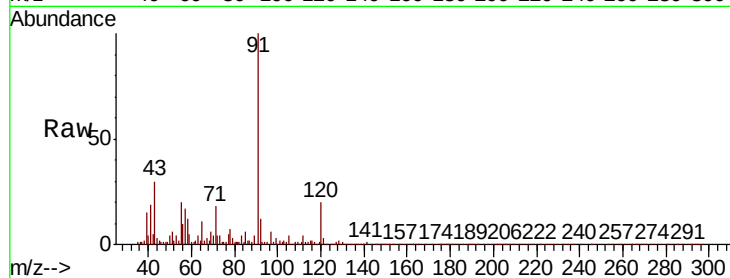
30736

Tot Ion: 91 Resp: 54594

Ion Ratio Lower Upper

91 100

120 20.8 11.8 35.3



#79

2-Chlorotoluene

Concen: 2.315 ug/l

RT: 11.43 min Scan# 1729

Delta R.T. 0.01 min

Lab File: VX013741.D

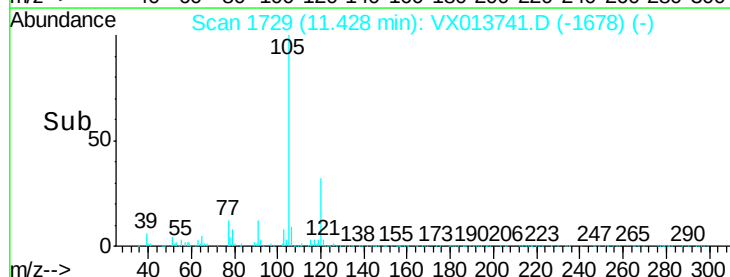
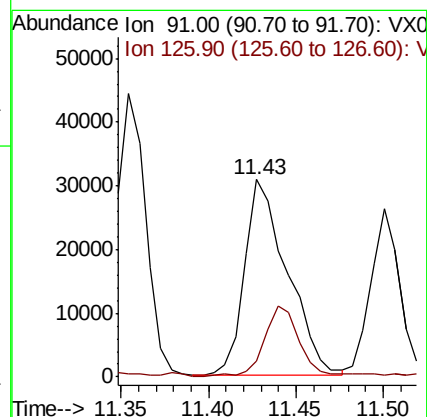
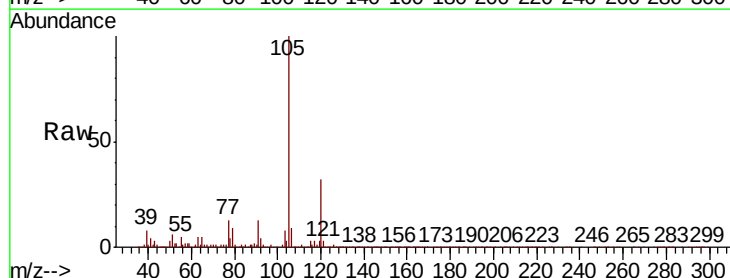
Acq: 03 Dec 2019 21:37

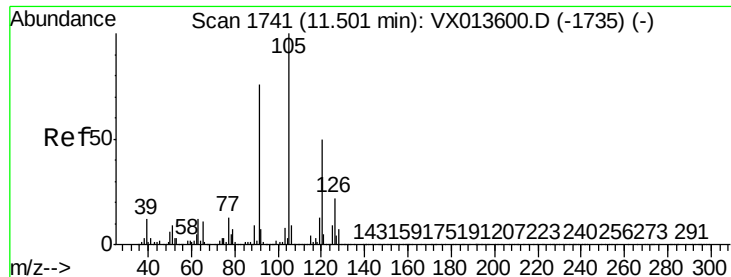
Tgt Ion: 91 Resp: 52334

Ion Ratio Lower Upper

91 100

126 30.2 17.5 52.5

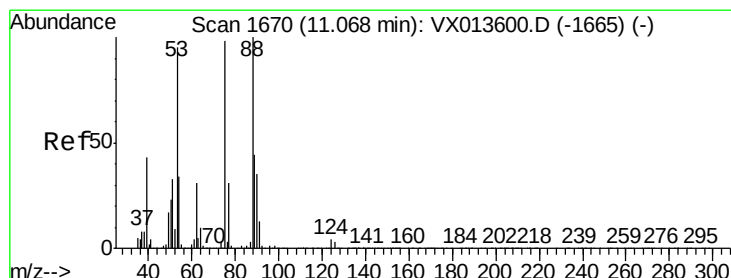
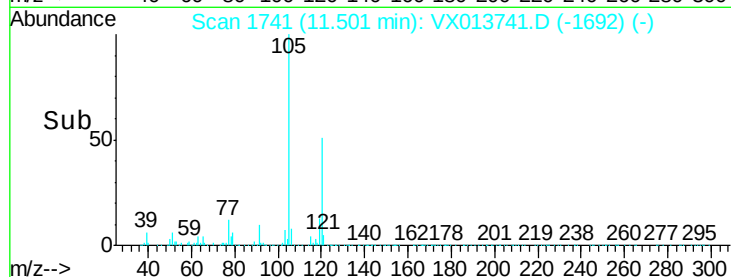
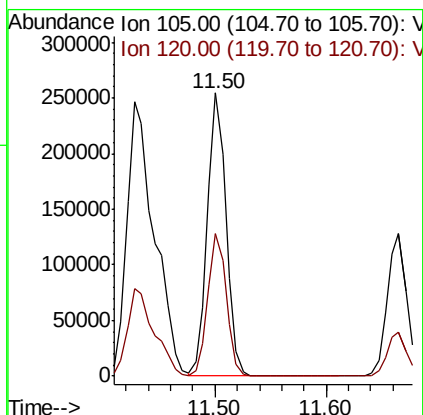
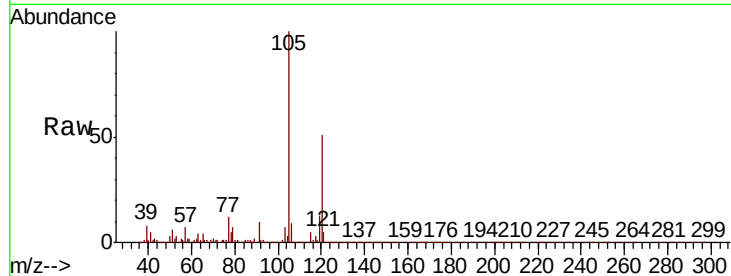




#80  
 1,3,5-Trimethylbenzene  
 Concen: 10.786 ug/l  
 RT: 11.50 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: VX013741.D  
 Acq: 03 Dec 2019 21:37

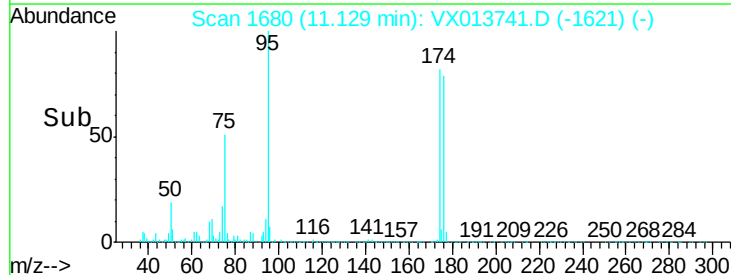
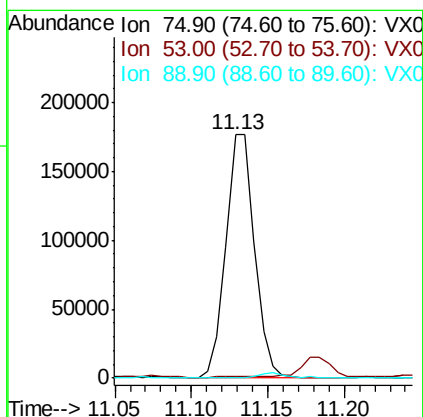
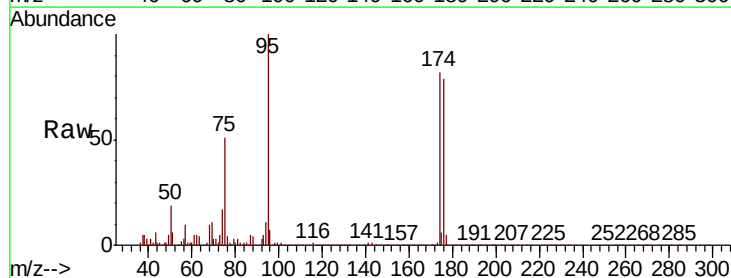
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 30736

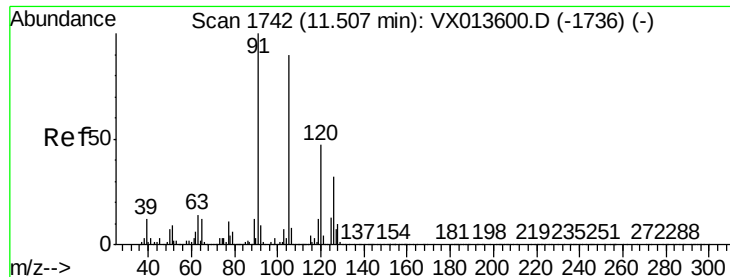
Tot Ion:105 Resp: 298404  
 Ion Ratio Lower Upper  
 105 100  
 120 50.0 25.3 75.9



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 57.882 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. 0.06 min  
 Lab File: VX013741.D  
 Acq: 03 Dec 2019 21:37

Tgt Ion: 75 Resp: 228996  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.2 117.2#  
 89 0.0 35.4 53.2#





#82

4-Chlorotoluene

Concen: 1.999 ug/l

RT: 11.43 min Scan# 1729

Delta R.T. -0.08 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

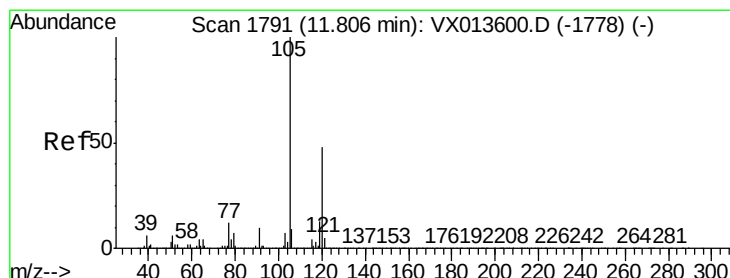
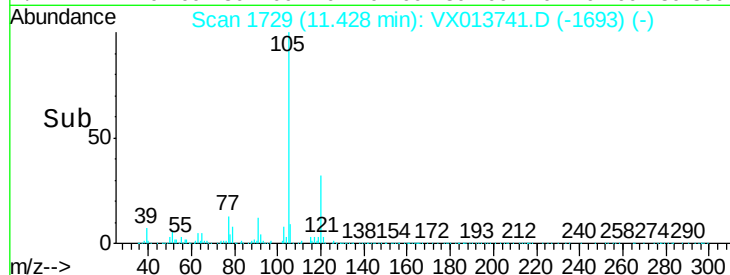
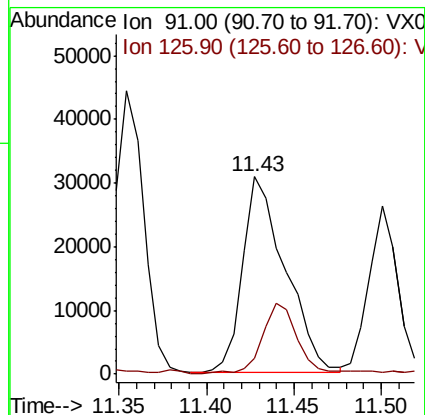
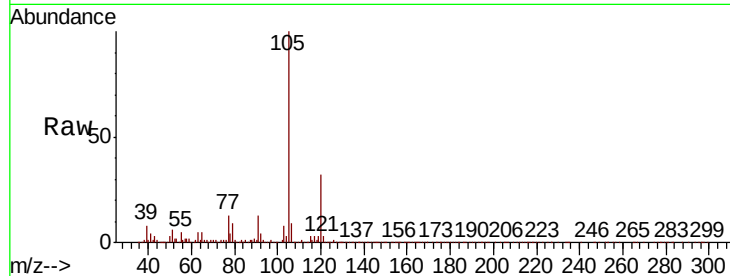
30736

Tot Ion: 91 Resp: 52334

Ion Ratio Lower Upper

91 100

126 30.2 15.7 47.0



#84

1,2,4-Trimethylbenzene

Concen: 17.717 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013741.D

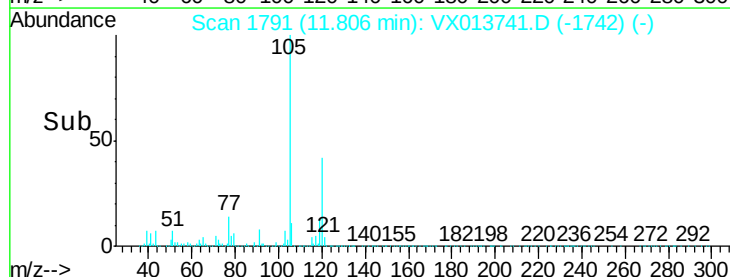
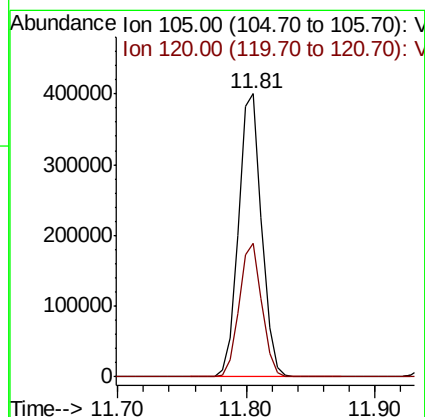
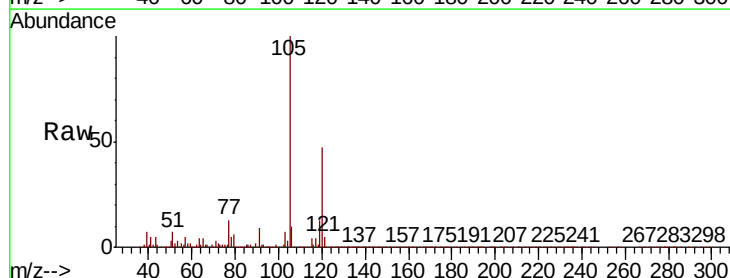
Acq: 03 Dec 2019 21:37

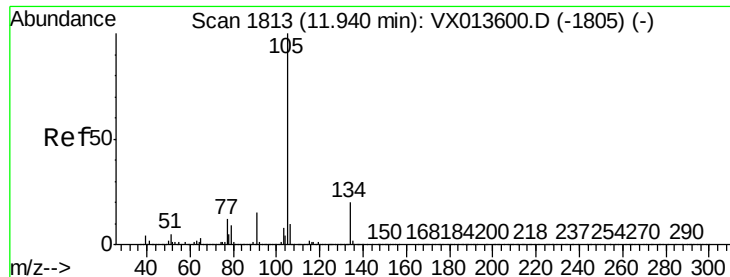
Tgt Ion: 105 Resp: 497482

Ion Ratio Lower Upper

105 100

120 46.3 23.1 69.3





#85

sec-Butylbenzene

Concen: 0.555 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampleId :

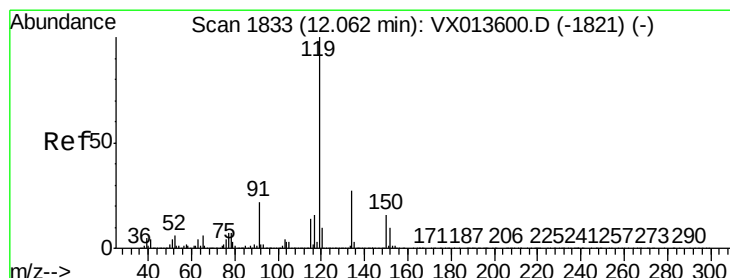
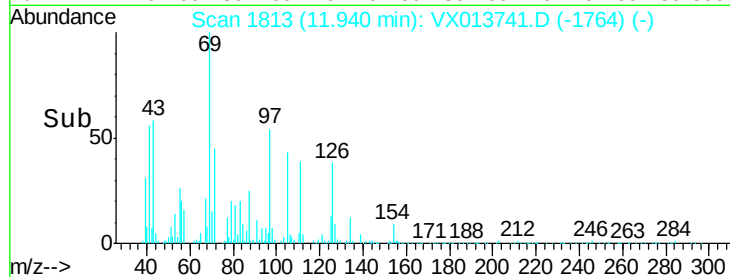
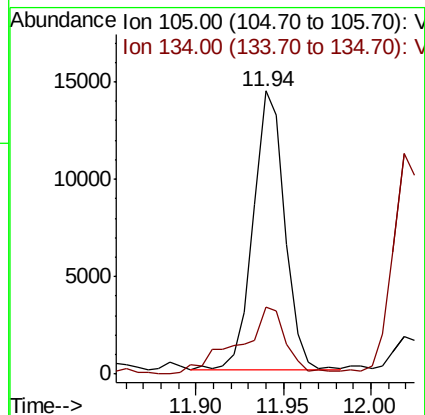
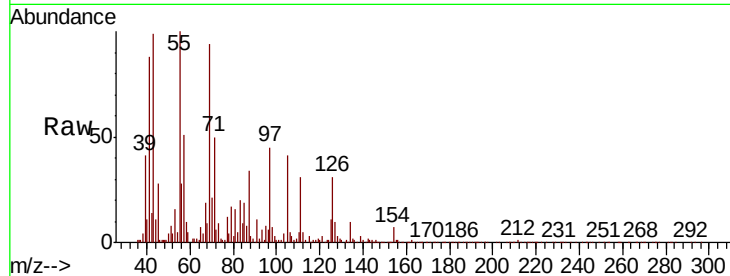
30736

Tot Ion:105 Resp: 17815

Ion Ratio Lower Upper

105 100

134 36.1 10.4 31.2#



#86

p-Isopropyltoluene

Concen: 0.589 ug/l

RT: 12.23 min Scan# 1860

Delta R.T. 0.16 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

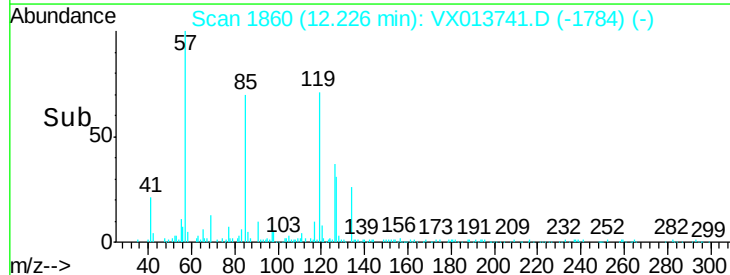
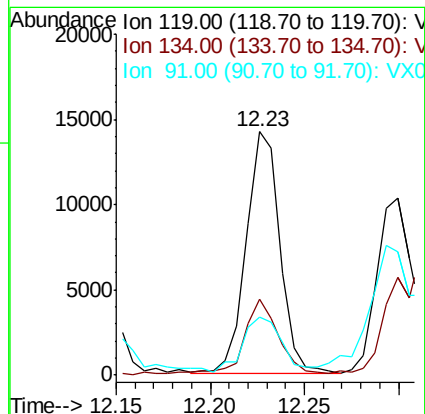
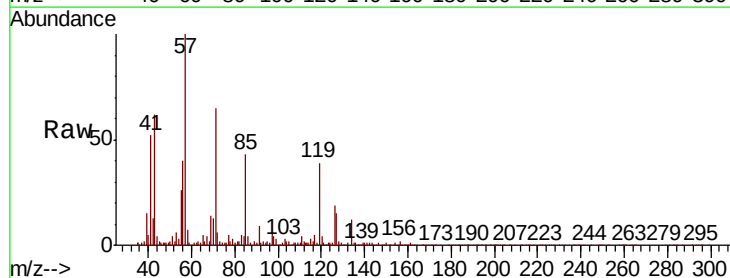
Tgt Ion:119 Resp: 17592

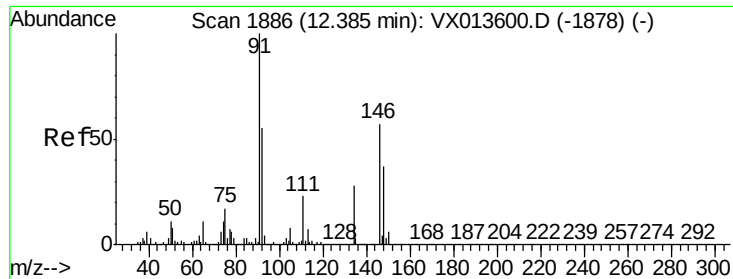
Ion Ratio Lower Upper

119 100

134 33.7 13.3 39.9

91 25.7 11.3 33.8





#89

n-Butylbenzene

Concen: 1.040 ug/l

RT: 12.37 min Scan# 1883

Delta R.T. -0.02 min

Lab File: VX013741.D

Acq: 03 Dec 2019 21:37

Instrument :

MSVOA\_X

ClientSampled :

30736

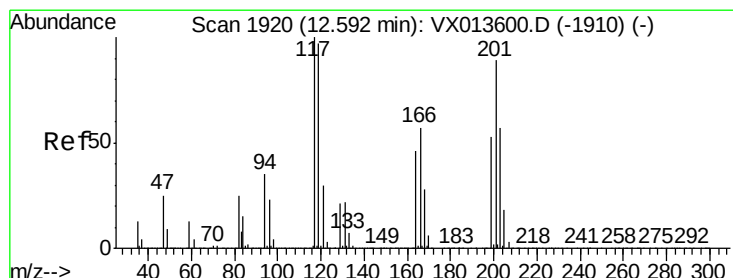
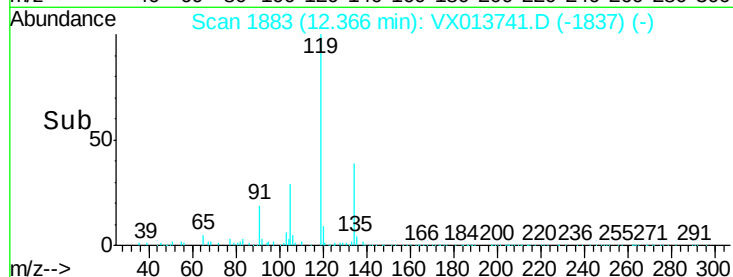
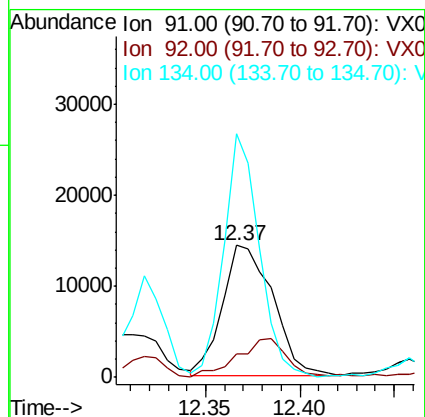
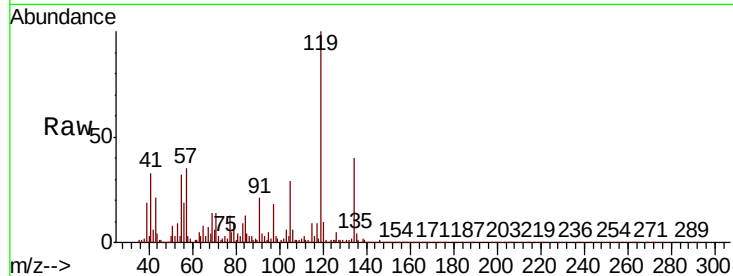
Tot Ion: 91 Resp: 26494

Ion Ratio Lower Upper

91 100

92 30.1 27.4 82.2

134 130.4 13.5 40.4#



#90

Hexachloroethane

Concen: 0.995 ug/l

RT: 12.60 min Scan# 1922

Delta R.T. 0.01 min

Lab File: VX013741.D

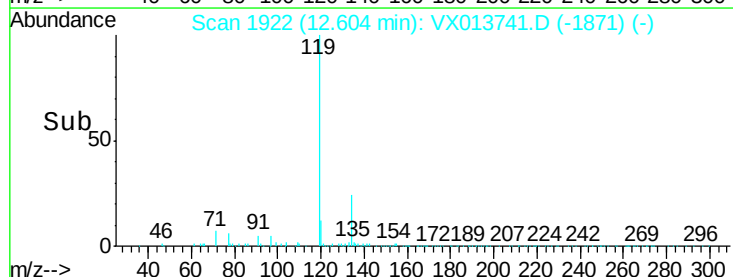
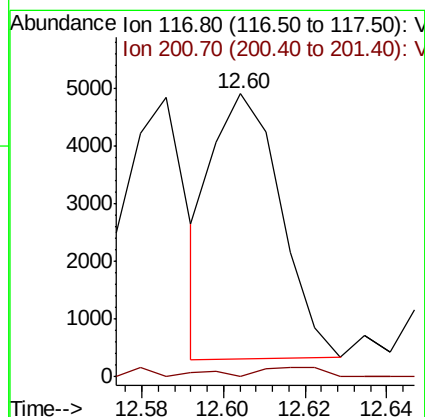
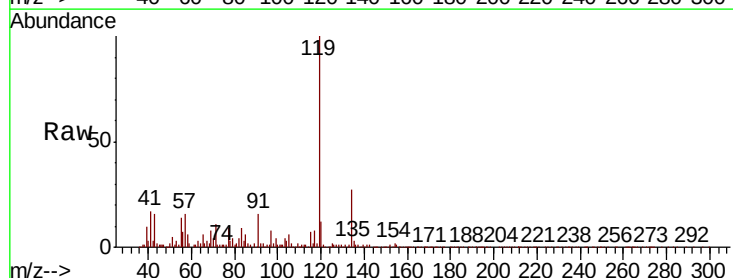
Acq: 03 Dec 2019 21:37

Tgt Ion: 117 Resp: 5376

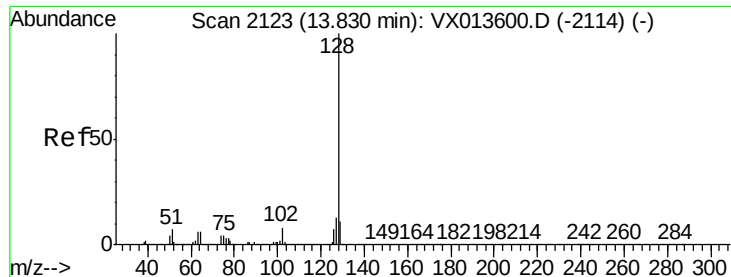
Ion Ratio Lower Upper

117 100

201 0.7 44.1 132.4#



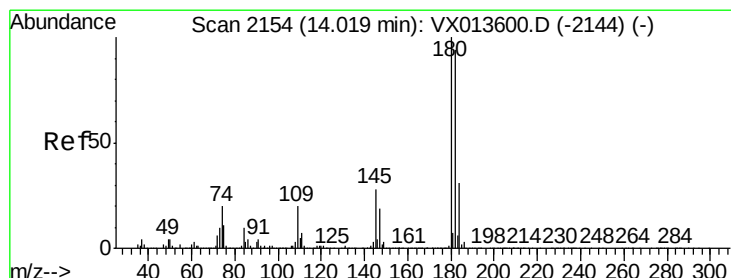
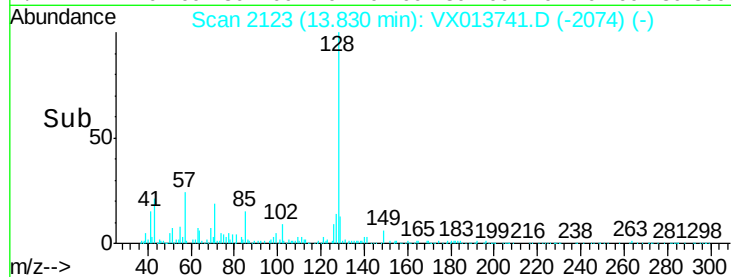
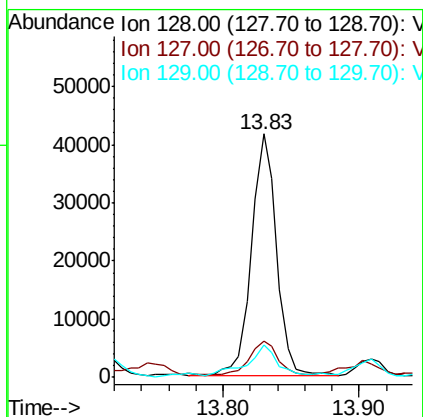
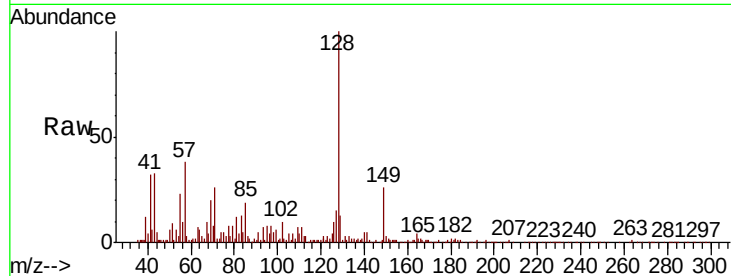




#95  
Naphthalene  
Concen: 1.672 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Instrument :  
MSVOA\_X  
ClientSampled :  
30736

Tot Ion:128 Resp: 54506  
Ion Ratio Lower Upper  
128 100  
127 15.5 10.3 15.5  
129 15.0 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.230 ug/l  
RT: 14.03 min Scan# 2156  
Delta R.T. 0.01 min  
Lab File: VX013741.D  
Acq: 03 Dec 2019 21:37

Tgt Ion:180 Resp: 2493  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.6 142.8#  
145 254.2 15.0 45.0#

