

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122118\  
 Data File : VW007716.D  
 Acq On : 19 Dec 2018 22:37  
 Operator : SY/AP  
 Sample : J6392-07  
 Misc : 6.46G/5ML/MSVOA W/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 KY001SB103-121118-(23-25)

Manual Integrations  
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 12/20/2018 11:20:10 AM

Quant Time: Dec 20 07:45:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response  | Conc     | Units   | Dev(Min) |
|-----------------------------|--------|------|-----------|----------|---------|----------|
| 1) Pentafluorobenzene       | 7.95   | 168  | 81134     | 50.00    | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84   | 114  | 135450    | 50.00    | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63  | 117  | 112747    | 50.00    | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.57  | 152  | 53183     | 50.00    | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |           |          |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65   | 37137     | 41.76    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =        | 83.52%  |          |
| 35) Dibromofluoromethane    | 7.88   | 113  | 33680     | 40.76    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =        | 81.52%  |          |
| 50) Toluene-d8              | 10.32  | 98   | 187496    | 60.19    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =        | 120.38% |          |
| 62) 4-Bromofluorobenzene    | 12.62  | 95   | 94979     | 78.92    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =        | 157.84% |          |
| Target Compounds            |        |      |           |          |         |          |
|                             |        |      |           |          | Qvalue  |          |
| 16) Acetone                 | 4.12   | 43   | 31102     | 186.773  | ug/l #  | 83       |
| 17) Carbon Disulfide        | 4.37   | 76   | 4430      | 1.788    | ug/l    | 97       |
| 31) Cyclohexane             | 7.93   | 56   | 519354    | 392.328  | ug/l #  | 50       |
| 39) Methylcyclohexane       | 9.34   | 83   | 1283373   | 790.009  | ug/l #  | 89       |
| 40) Benzene                 | 8.32   | 78   | 613723    | 175.922  | ug/l    | 99       |
| 52) Toluene                 | 10.39  | 92   | 51640     | 22.063   | ug/l    | 96       |
| 67) Ethyl Benzene           | 11.74  | 91   | 15847316  | 3784.353 | ug/l    | 94       |
| 68) m/p-Xylenes             | 11.85  | 106  | 4122163   | 2537.611 | ug/l    | 97       |
| 69) o-Xylene                | 12.17  | 106  | 329406    | 216.331  | ug/l    | 98       |
| 73) Isopropylbenzene        | 12.47  | 105  | 4874152   | 1212.463 | ug/l    | 99       |
| 78) n-propylbenzene         | 12.82  | 91   | 12262198  | 2620.359 | ug/l    | 100      |
| 80) 1,3,5-Trimethylbenzene  | 12.96  | 105  | 13223077  | 3813.350 | ug/l    | 98       |
| 83) tert-Butylbenzene       | 13.23  | 119  | 27717m    | 9.110    | ug/l    |          |
| 84) 1,2,4-Trimethylbenzene  | 13.26  | 105  | 25154326m | 7189.052 | ug/l    |          |
| 85) sec-Butylbenzene        | 13.40  | 105  | 1321078   | 315.056  | ug/l #  | 50       |
| 86) p-Isopropyltoluene      | 13.51  | 119  | 583949    | 153.151  | ug/l    | 99       |
| 89) n-Butylbenzene          | 13.83  | 91   | 1925137   | 550.676  | ug/l #  | 66       |
| 95) Naphthalene             | 15.38  | 128  | 6946164   | 3304.785 | ug/l    | 99       |

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

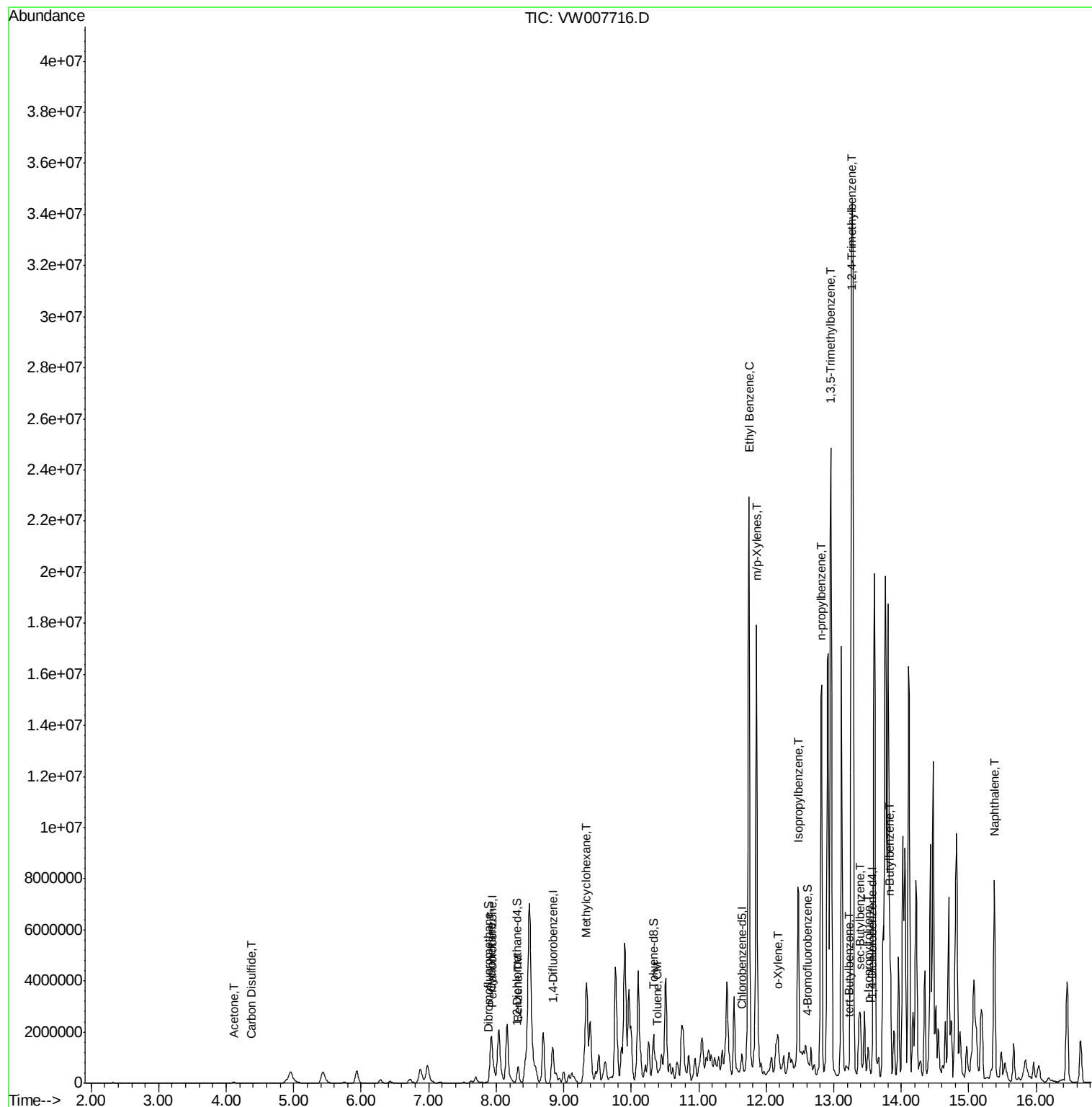
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW122118\  
Data File : VW007716.D  
Acq On : 19 Dec 2018 22:37  
Operator : SY/AP  
Sample : J6392-07  
Misc : 6.46G/5ML/MSVOA W/SOIL  
ALS Vial : 13 Sample Multiplier: 1

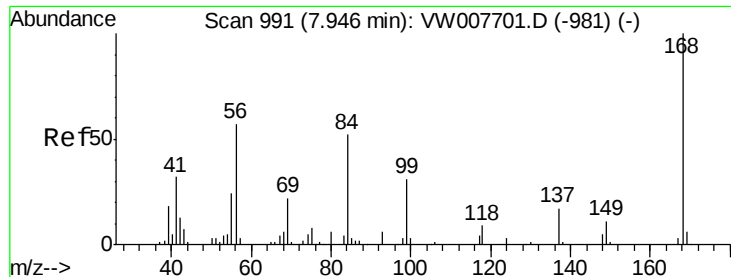
Instrument :  
MSVOA\_W  
ClientSampleId :  
KY001SB103-121118-(23-25)

Manual Integrations  
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12/20/2018 11:20:10 AM

Quant Time: Dec 20 07:45:28 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion:168 Resp: 81134

Ion Ratio Lower Upper

168 100

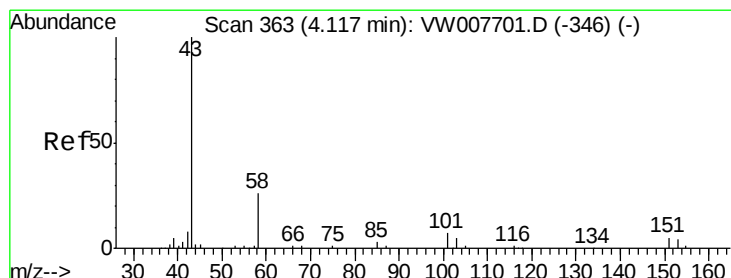
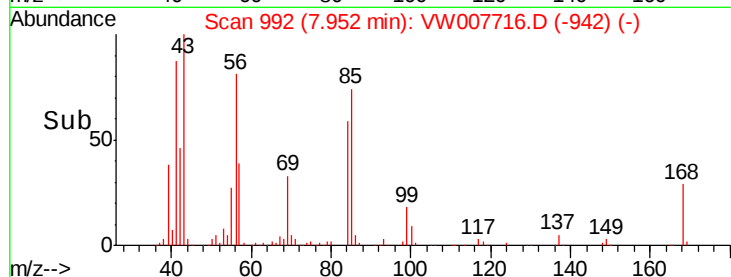
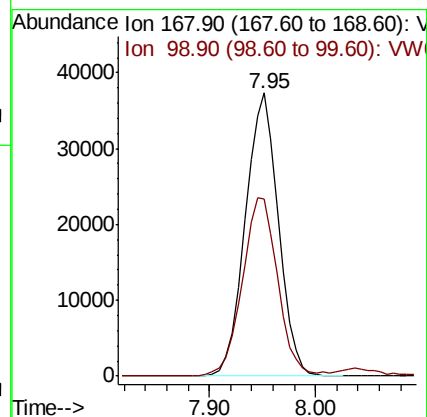
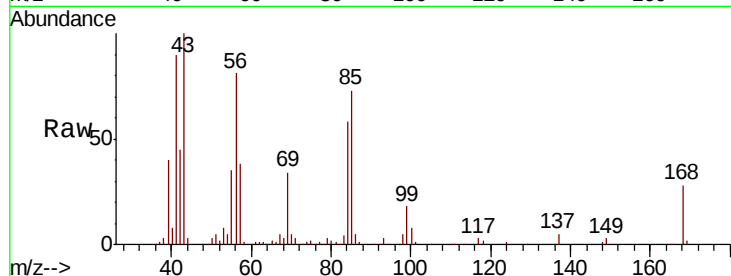
99 62.5 54.0 81.0

Manual Integrations

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#16

Acetone

Concen: 186.773 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW007716.D

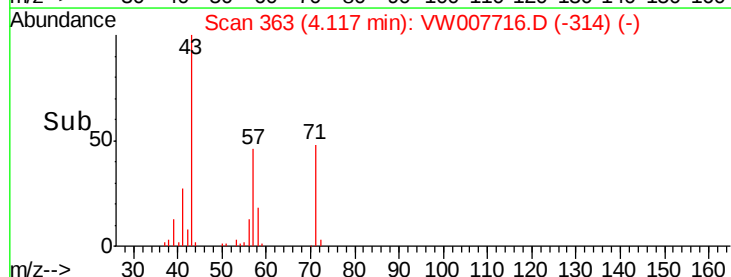
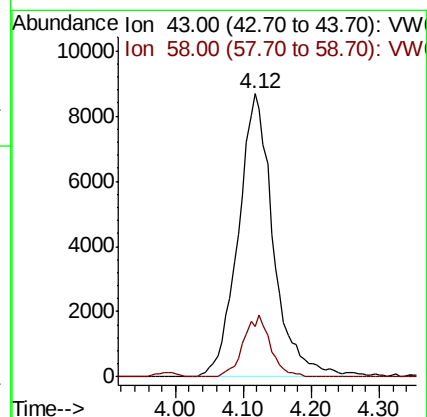
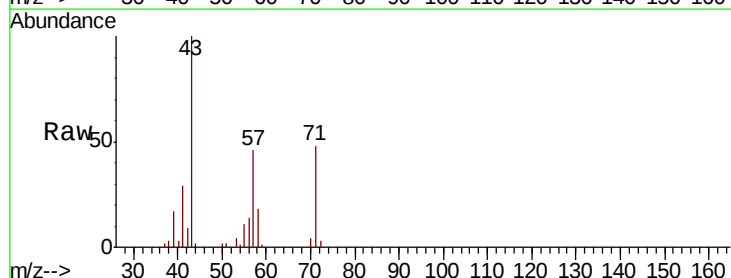
Acq: 19 Dec 2018 22:37

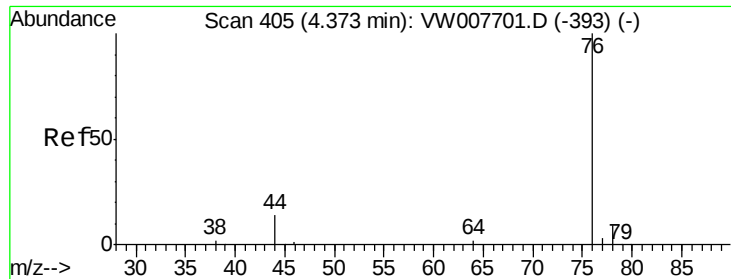
Tgt Ion: 43 Resp: 31102

Ion Ratio Lower Upper

43 100

58 17.9 21.2 31.8#





#17

Carbon Disulfide

Concen: 1.788 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion: 76 Resp: 4430

Ion Ratio Lower Upper

76 100

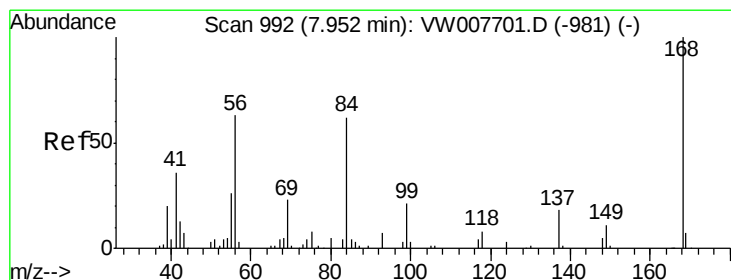
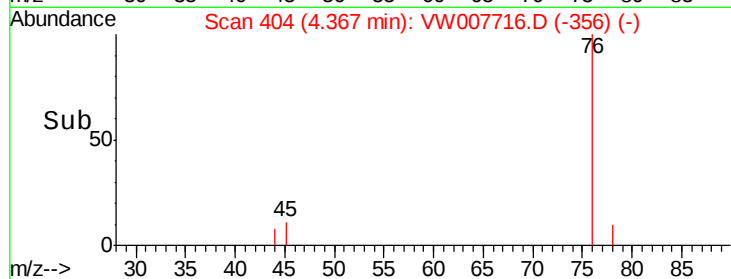
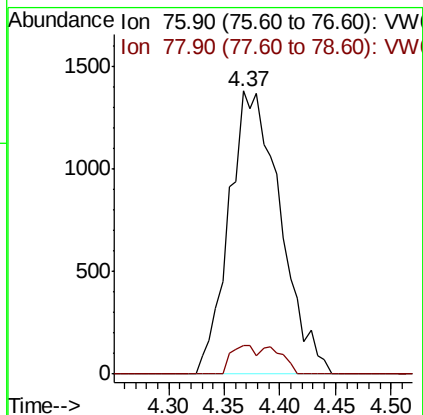
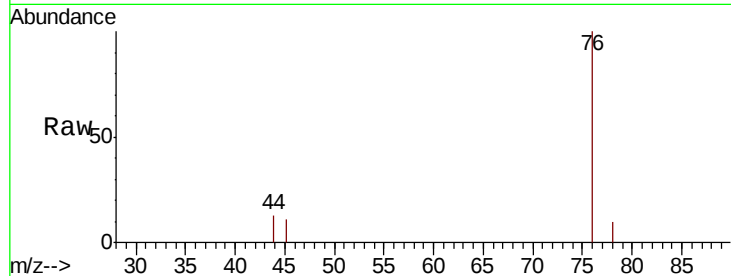
78 10.3 7.3 10.9

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#31

Cyclohexane

Concen: 392.328 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

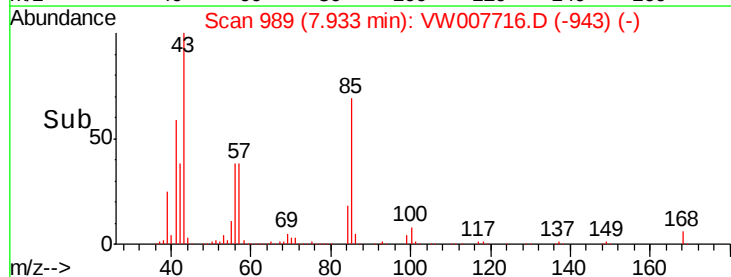
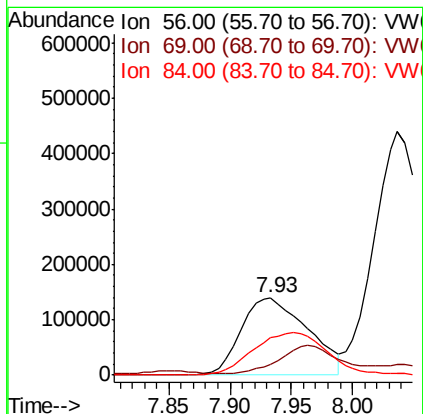
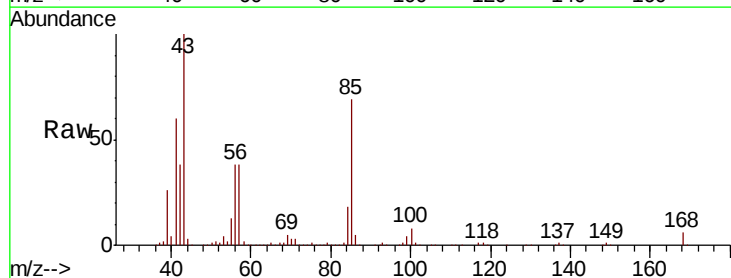
Tgt Ion: 56 Resp: 519354

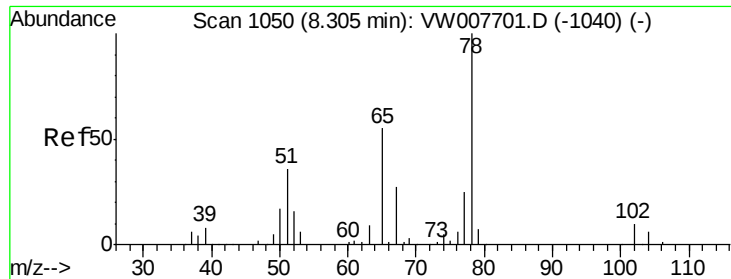
Ion Ratio Lower Upper

56 100

69 9.8 29.7 44.5#

84 48.1 78.9 118.3#





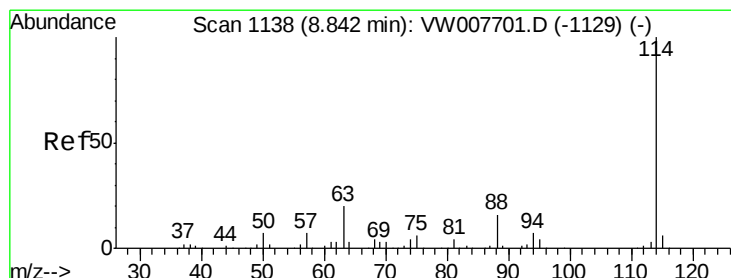
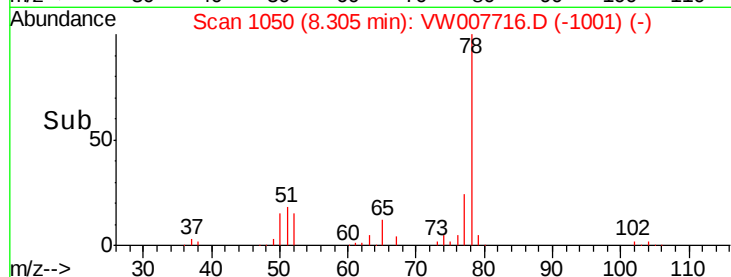
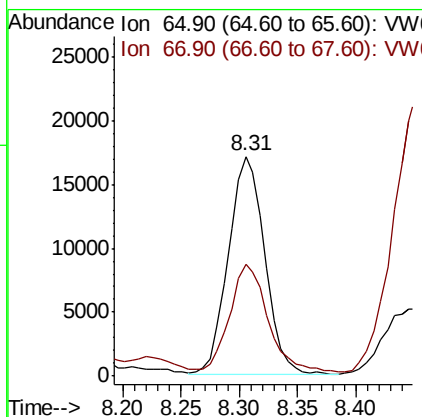
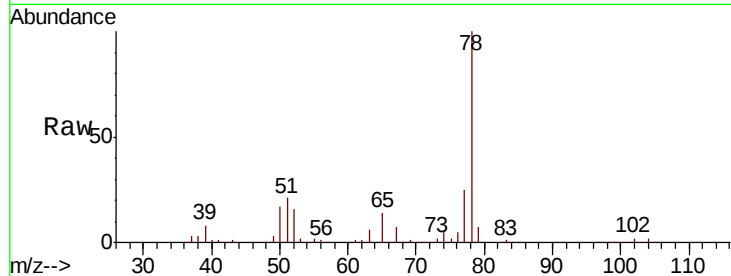
#33  
 1,2-Dichloroethane-d4  
 Concen: 41.761 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007716.D  
 Acq: 19 Dec 2018 22:37

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 KY001SB103-121118-(23-25)

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 65      | 100   | 37137 |       |       |
| 67      | 50.8  | 0.0   | 100.6 |       |

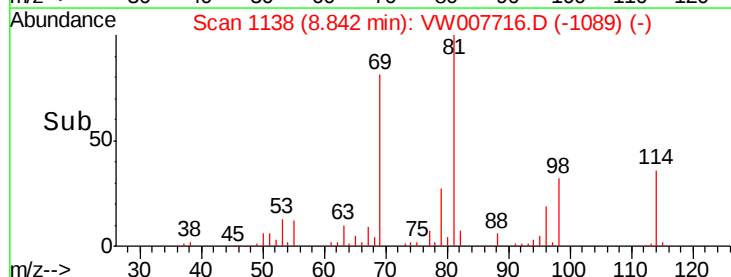
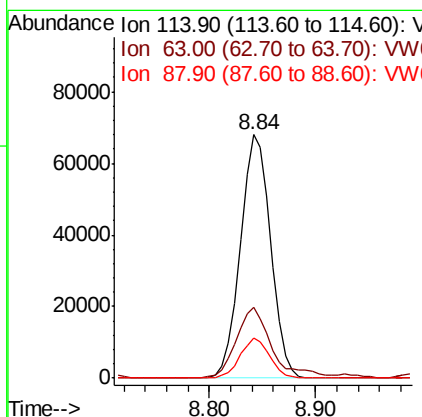
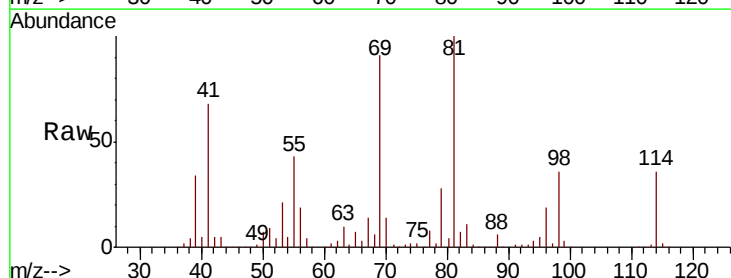
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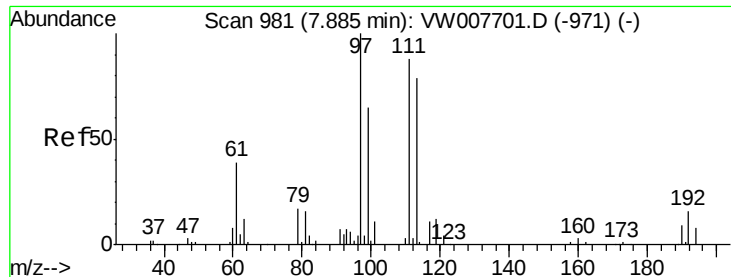
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007716.D  
 Acq: 19 Dec 2018 22:37

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 135450 |       |       |
| 63      | 29.3  | 0.0    | 40.0  |       |
| 88      | 16.7  | 0.0    | 32.6  |       |





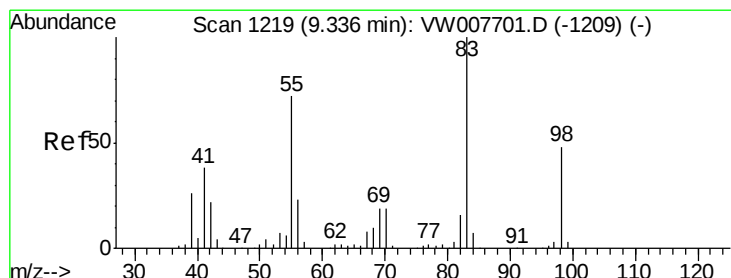
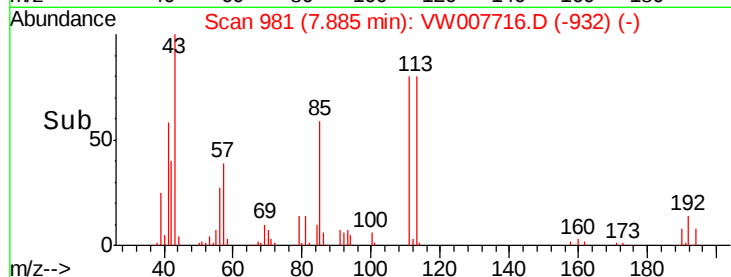
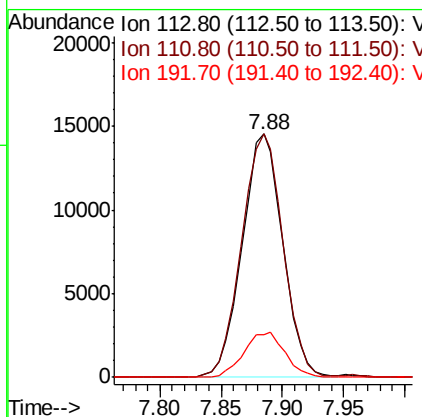
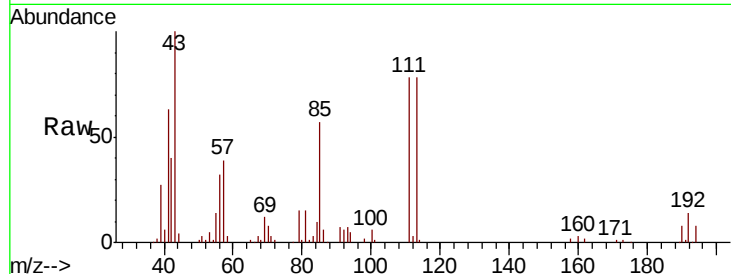
#35  
Dibromofluoromethane  
Concen: 40.759 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
KY001SB103-121118-(23-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 82.6  | 124.0 |
| 192     | 18.6  | 15.5  | 23.3  |

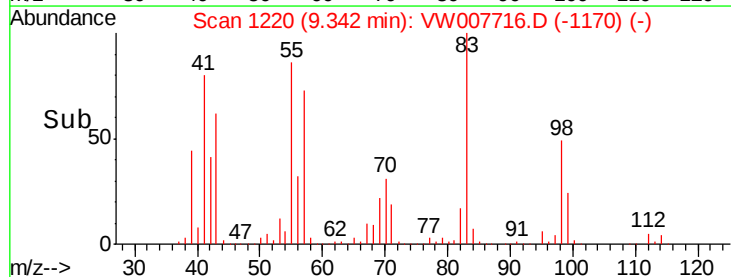
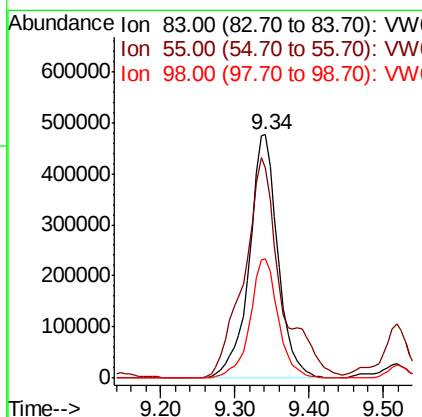
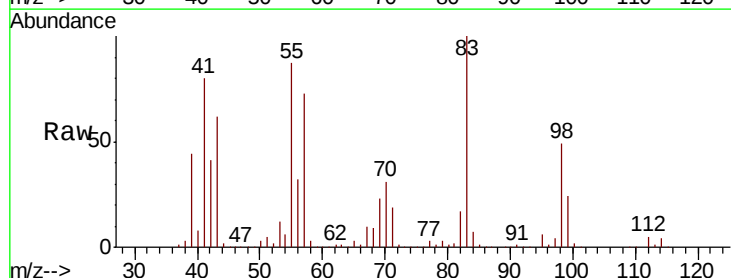
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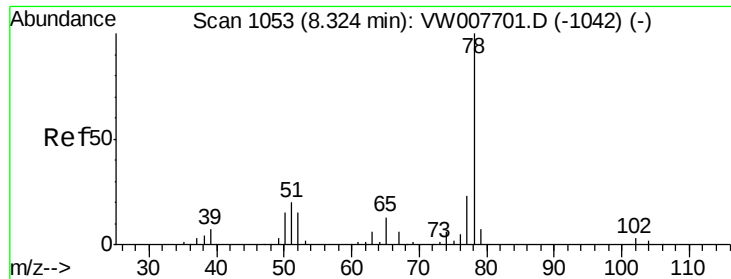
apatel  
12/20/2018 11:20:10 AM



#39  
Methylcyclohexane  
Concen: 790.009 ug/l  
RT: 9.34 min Scan# 1220  
Delta R.T. 0.01 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 86.5  | 57.2  | 85.8# |
| 98      | 49.3  | 38.6  | 58.0  |





#40

Benzene

Concen: 175.922 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion: 78 Resp: 613723

Ion Ratio Lower Upper

78 100

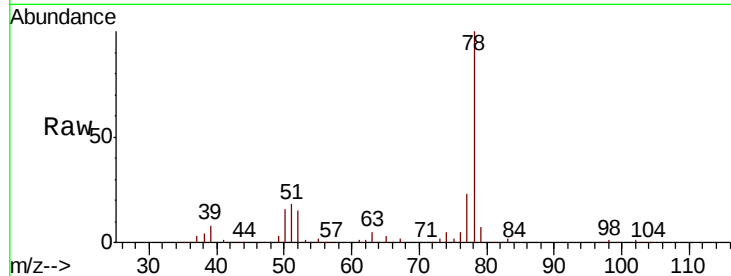
77 23.0 18.7 28.1

Manual Integrations

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Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW

8.32

250000

200000

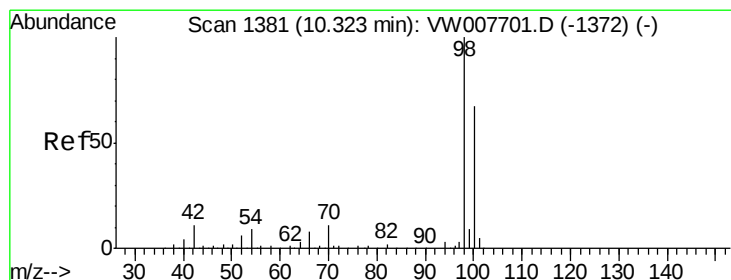
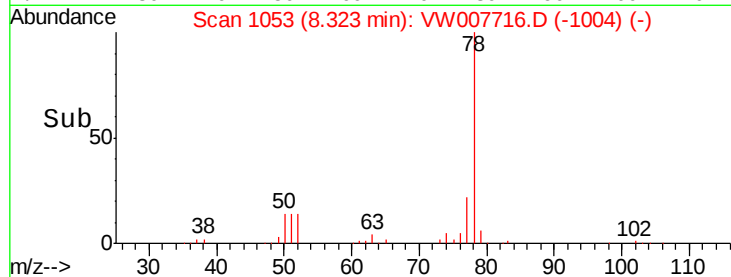
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 60.190 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007716.D

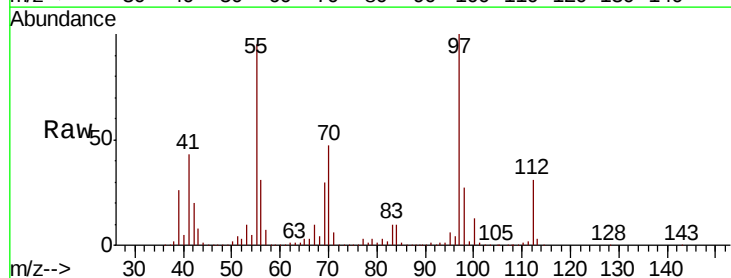
Acq: 19 Dec 2018 22:37

Tgt Ion: 98 Resp: 187496

Ion Ratio Lower Upper

98 100

100 39.3 52.2 78.2#



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

100000

80000

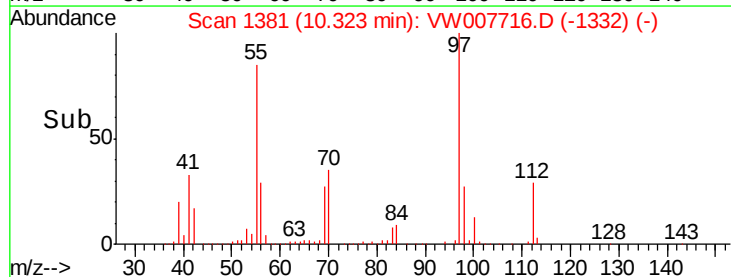
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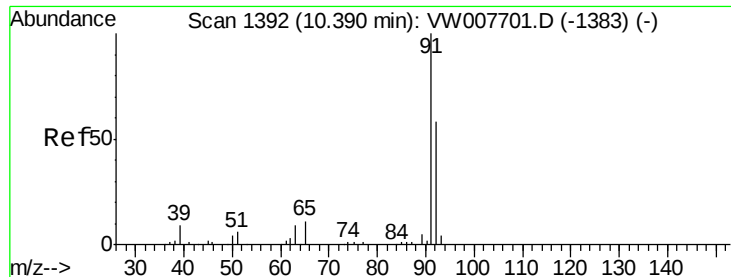
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20000

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Time-->





#52

Toluene

Concen: 22.063 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion: 92 Resp: 51640

Ion Ratio Lower Upper

92 100

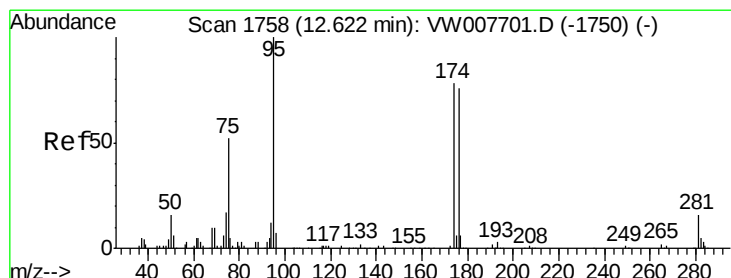
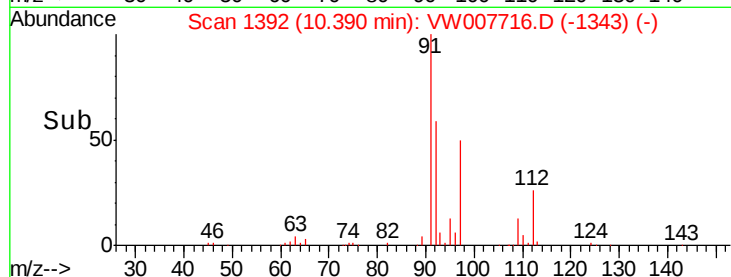
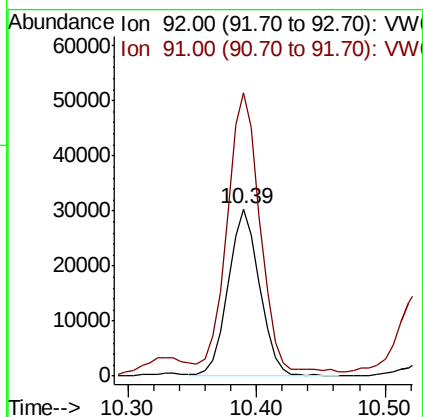
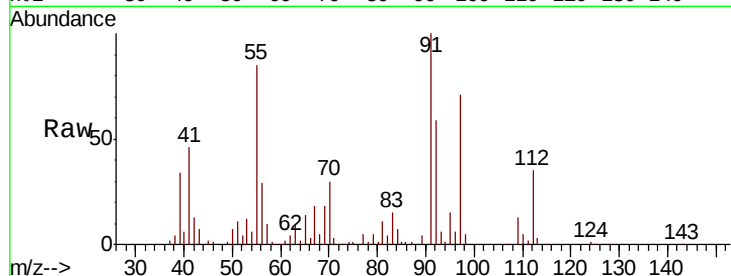
91 177.3 137.0 205.4

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#62

4-Bromofluorobenzene

Concen: 78.924 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

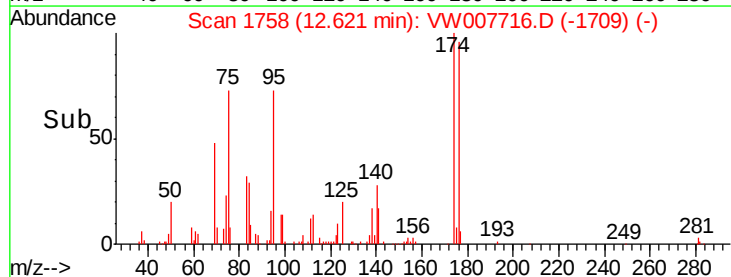
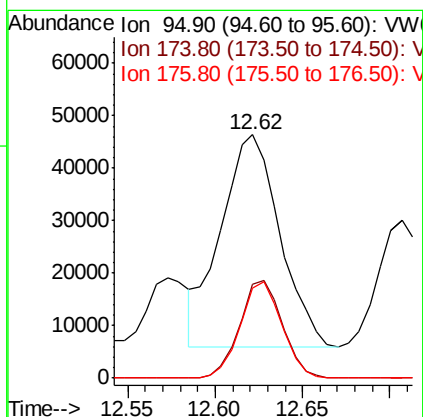
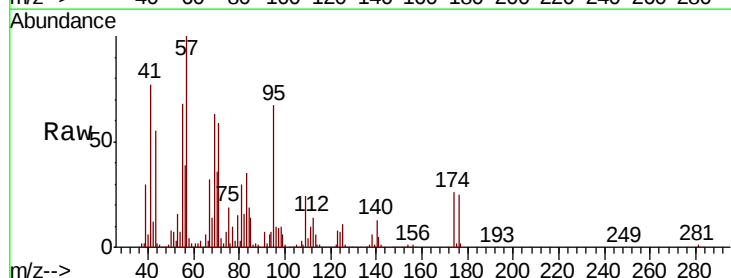
Tgt Ion: 95 Resp: 94979

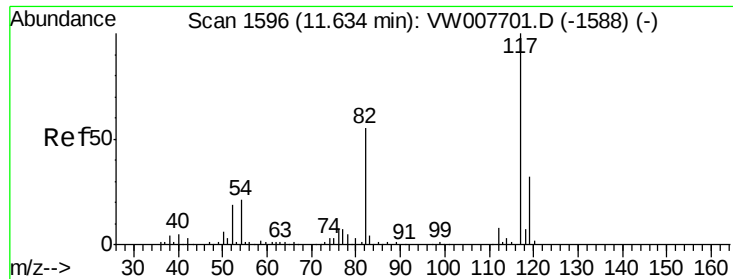
Ion Ratio Lower Upper

95 100

174 33.4 0.0 152.2

176 32.1 0.0 146.8





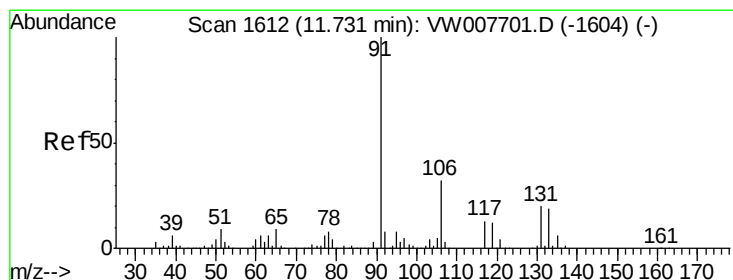
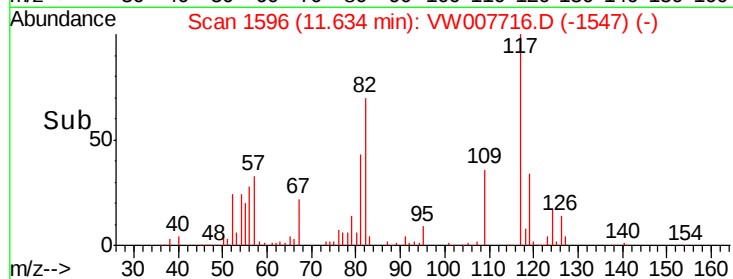
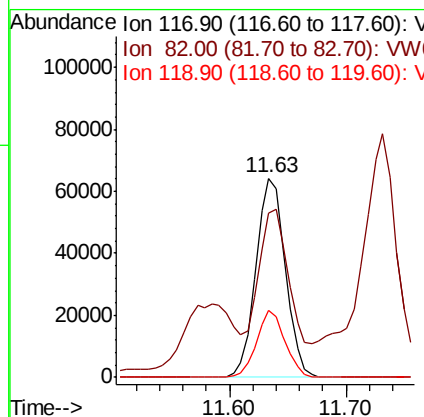
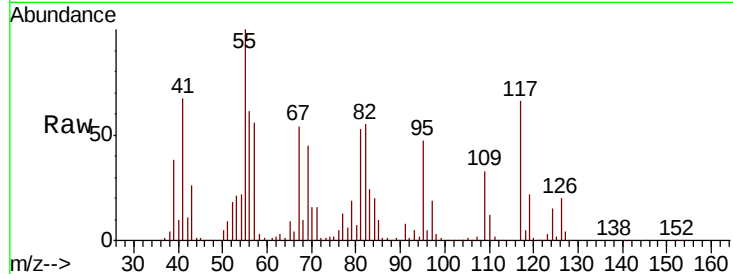
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
KY001SB103-121118-(23-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.9  | 44.3  | 66.5  |
| 119     | 33.7  | 25.7  | 38.5  |

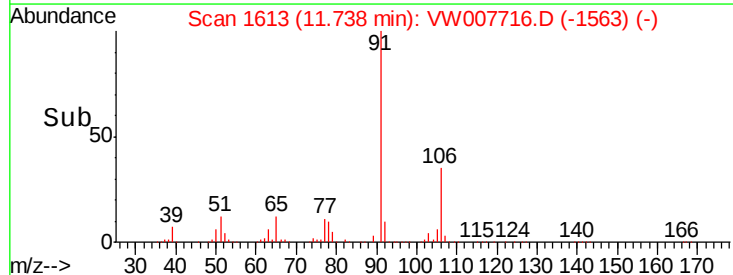
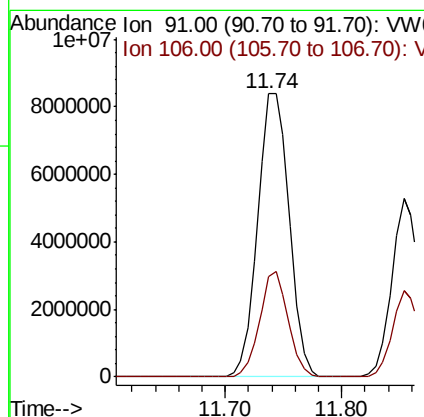
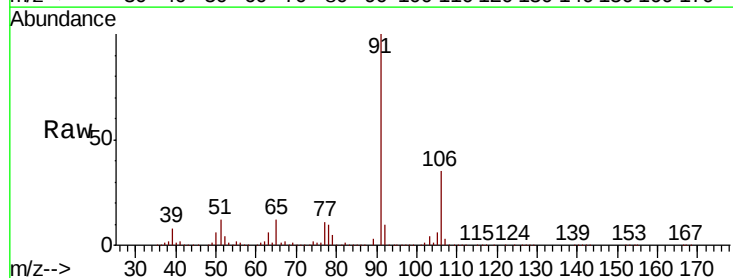
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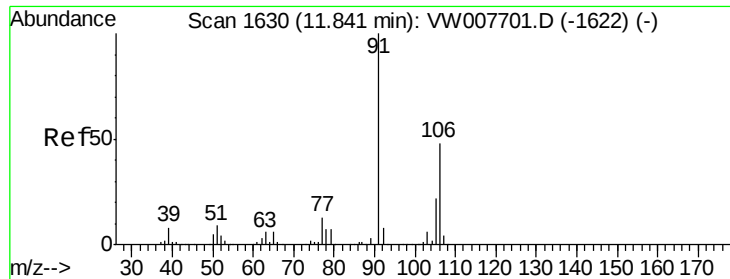
apatel  
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#67  
Ethyl Benzene  
Concen: 3784.353 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.01 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 35.4  | 25.8  | 38.8  |





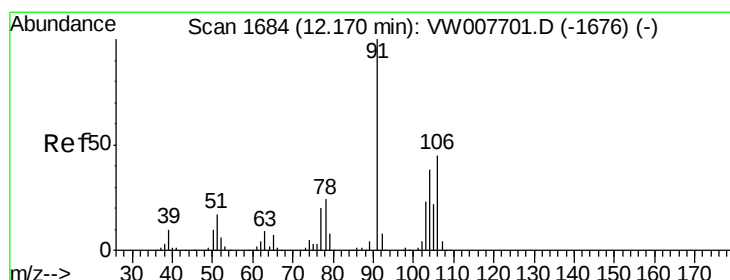
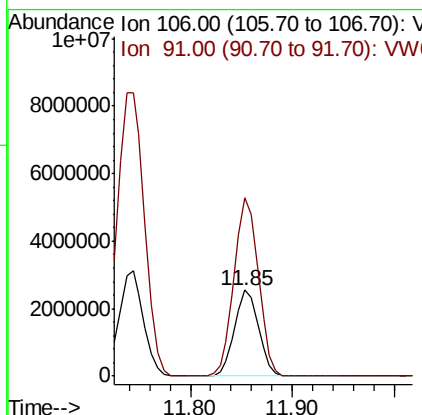
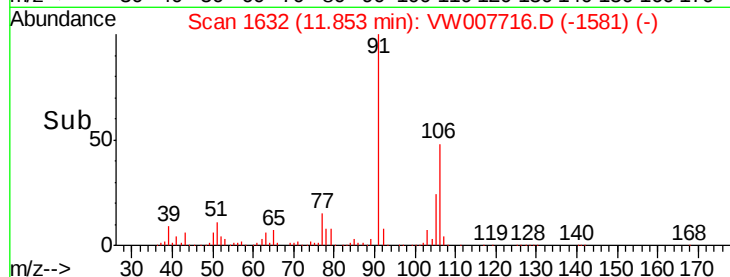
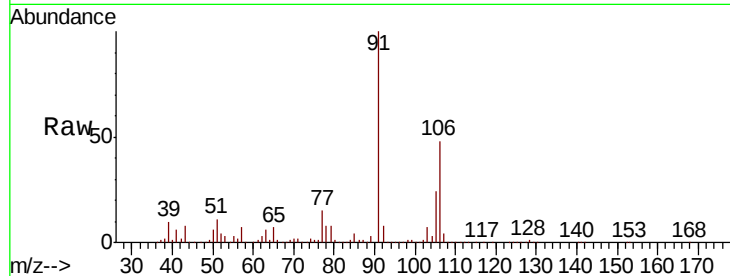
#68  
m/p-Xylenes  
Concen: 2537.611 ug/l  
RT: 11.85 min Scan# 1632  
Delta R.T. 0.01 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
KY001SB103-121118-(23-25)

Tot Ion:106 Resp: 4122163  
Ion Ratio Lower Upper  
106 100  
91 211.0 165.2 247.8

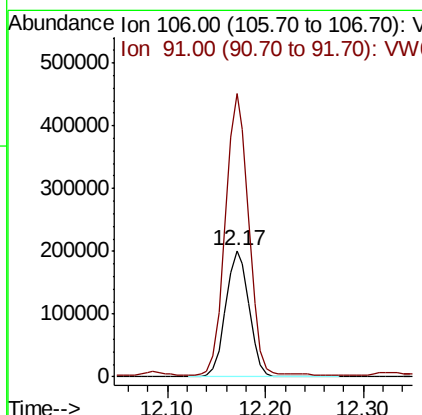
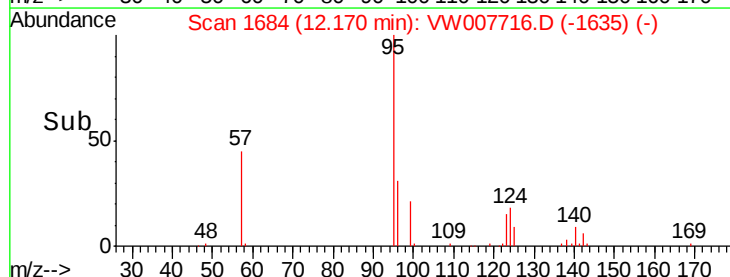
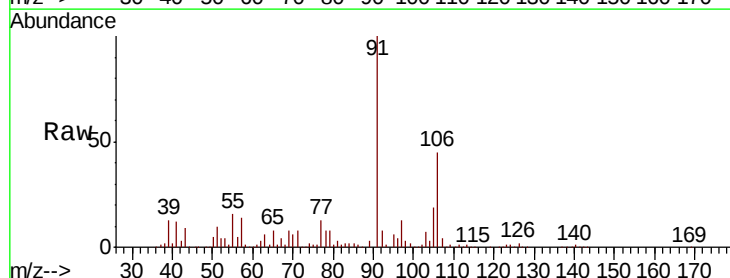
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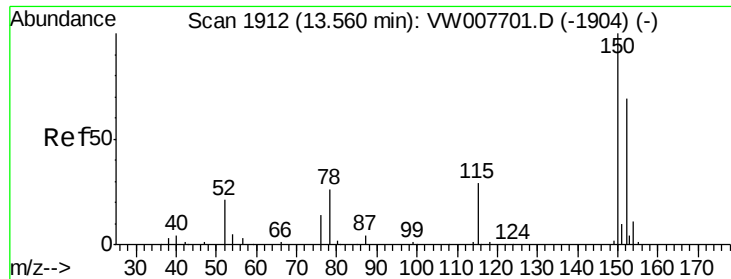
apatel  
12/20/2018 11:20:10 AM



#69  
o-Xylene  
Concen: 216.331 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

Tgt Ion:106 Resp: 329406  
Ion Ratio Lower Upper  
106 100  
91 223.8 110.5 331.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

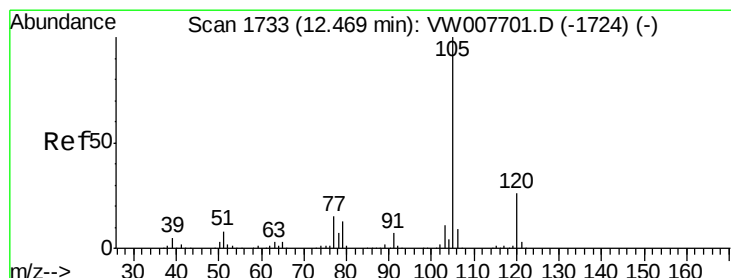
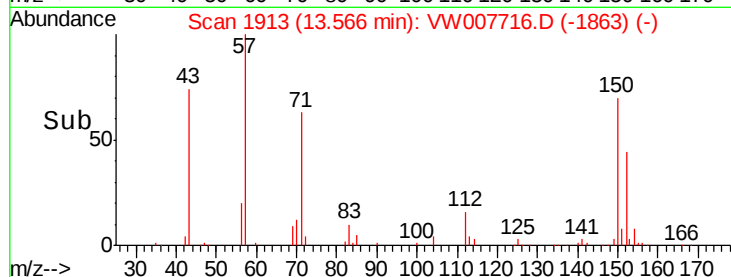
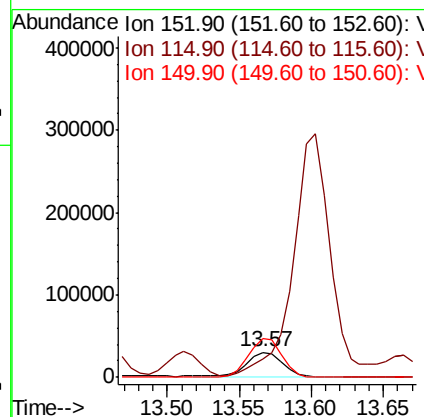
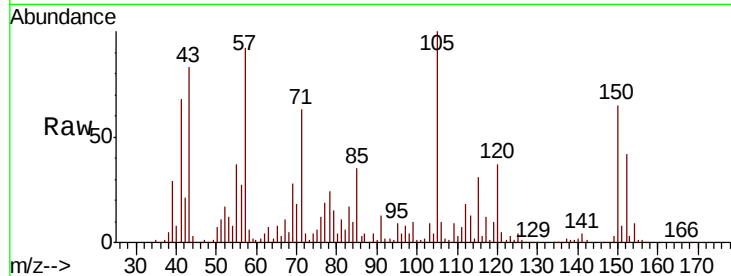
ClientSampleId :

KY001SB103-121118-(23-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 0.0   | 31.8  | 95.4# |
| 150     | 140.1 | 0.0   | 350.8 |

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#73

Isopropylbenzene

Concen: 1212.463 ug/l

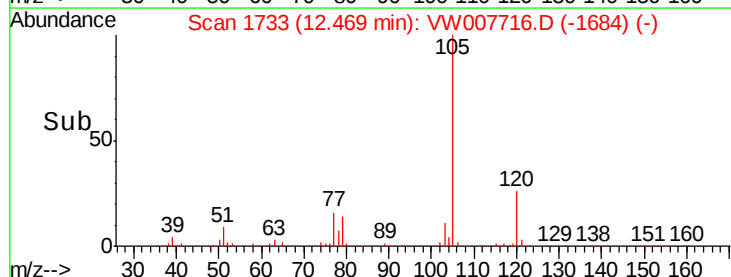
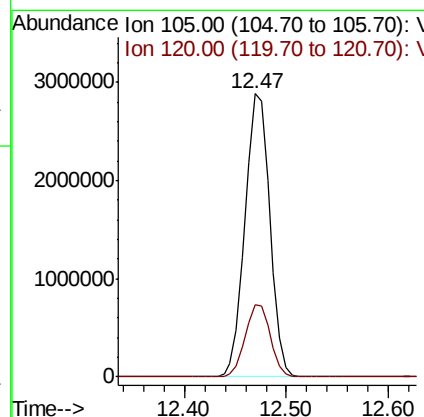
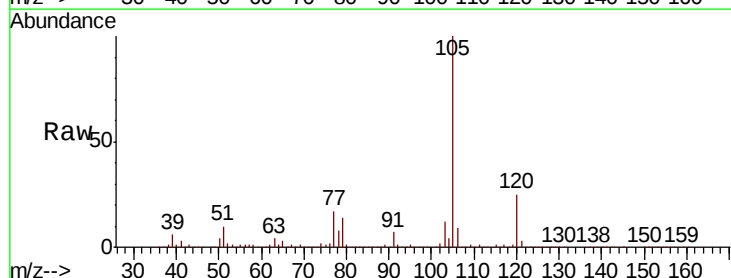
RT: 12.47 min Scan# 1733

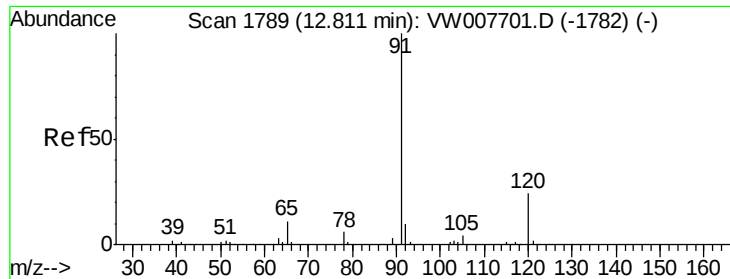
Delta R.T. -0.00 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.7  | 13.1  | 39.3  |





#78

n-propylbenzene

Concen: 2620.359 ug/l

RT: 12.82 min Scan# 1790

Delta R.T. 0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion: 91 Resp:12262198

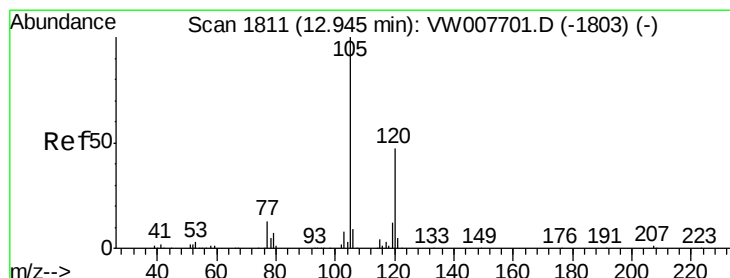
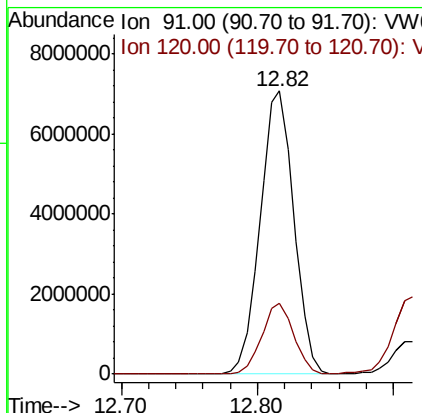
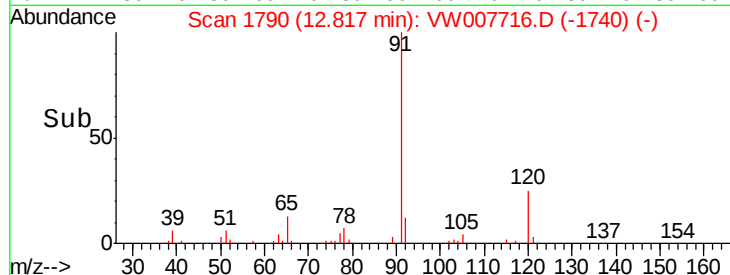
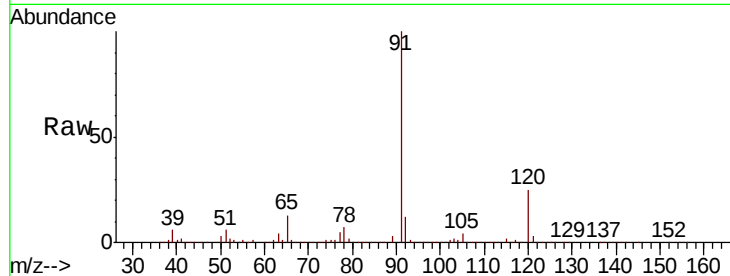
Ion Ratio Lower Upper

91 100

120 23.9 11.9 35.7

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#80

1,3,5-Trimethylbenzene

Concen: 3813.350 ug/l

RT: 12.96 min Scan# 1813

Delta R.T. 0.01 min

Lab File: VW007716.D

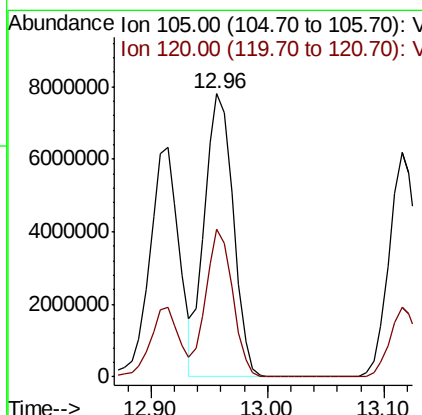
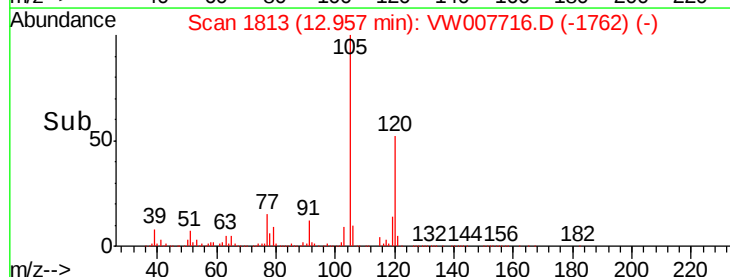
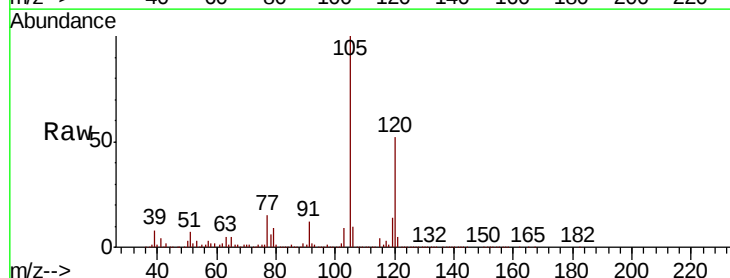
Acq: 19 Dec 2018 22:37

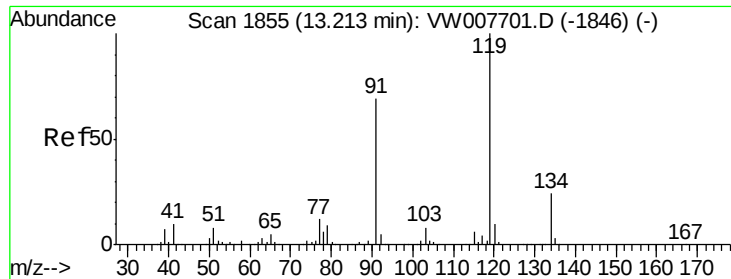
Tgt Ion:105 Resp:13223077

Ion Ratio Lower Upper

105 100

120 48.9 23.6 70.8





#83

tert-Butylbenzene

Concen: 9.110 ug/l m

RT: 13.23 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion:119 Resp: 27717

Ion Ratio Lower Upper

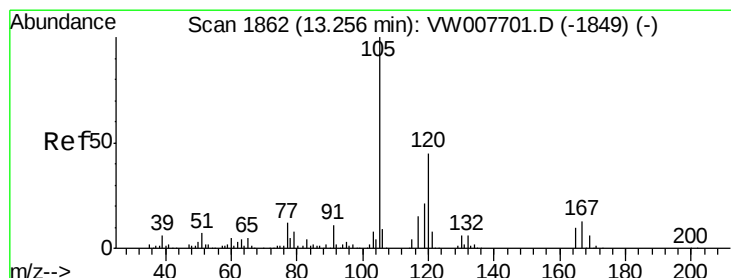
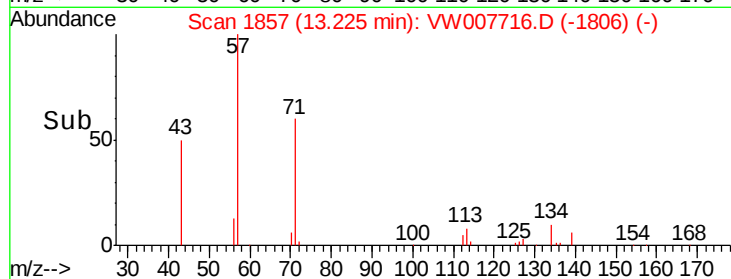
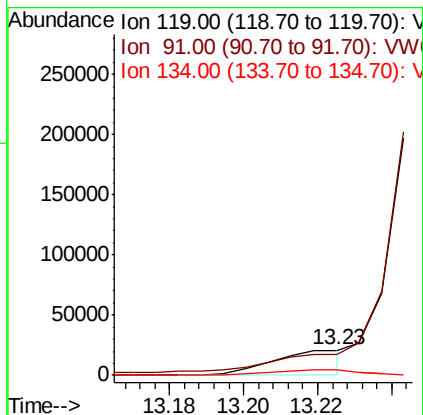
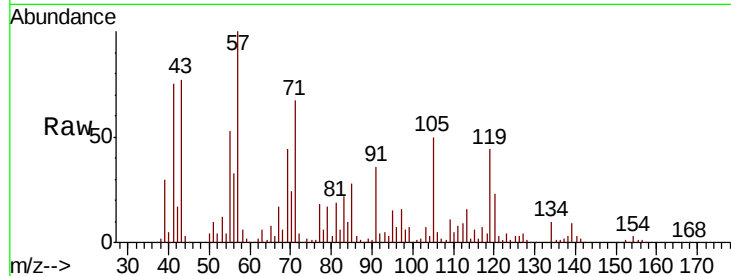
119 100

91 13774.6 34.2 102.

134 0.0 12.8 38.4#

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#84

1,2,4-Trimethylbenzene

Concen: 7189.052 ug/l m

RT: 13.26 min Scan# 1863

Delta R.T. 0.01 min

Lab File: VW007716.D

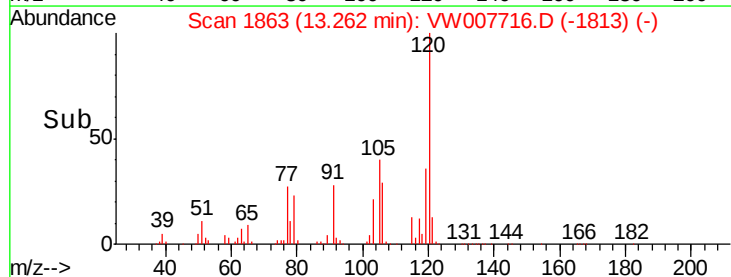
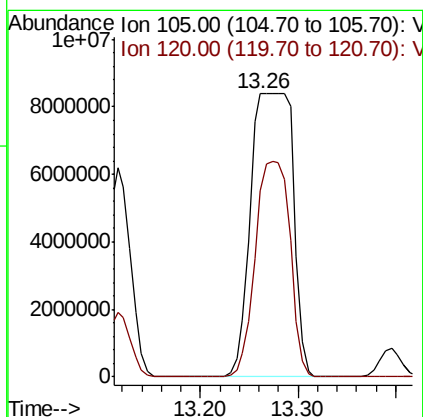
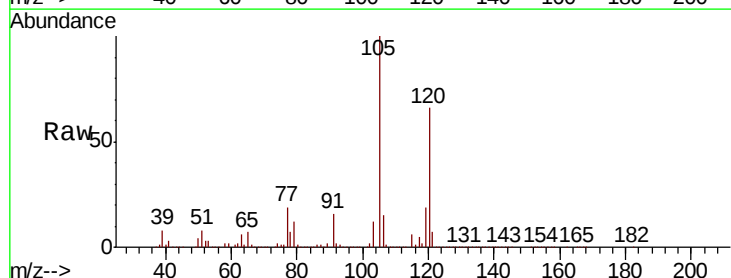
Acq: 19 Dec 2018 22:37

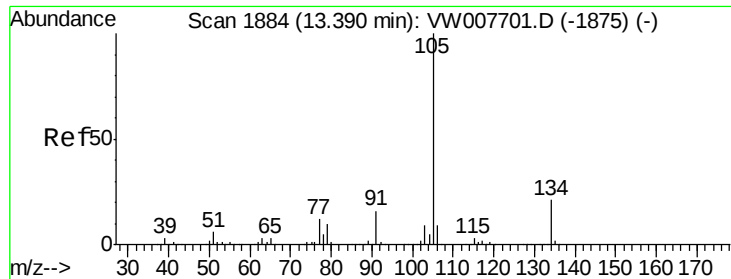
Tgt Ion:105 Resp:25154326

Ion Ratio Lower Upper

105 100

120 12.6 22.0 66.0#





#85

sec-Butylbenzene

Concen: 315.056 ug/l

RT: 13.40 min Scan# 1885

Delta R.T. 0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

Instrument :

MSVOA\_W

ClientSampleId :

KY001SB103-121118-(23-25)

Tot Ion:105 Resp: 1321078

Ion Ratio Lower Upper

105 100

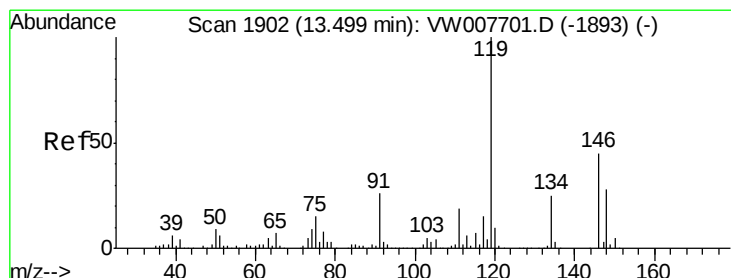
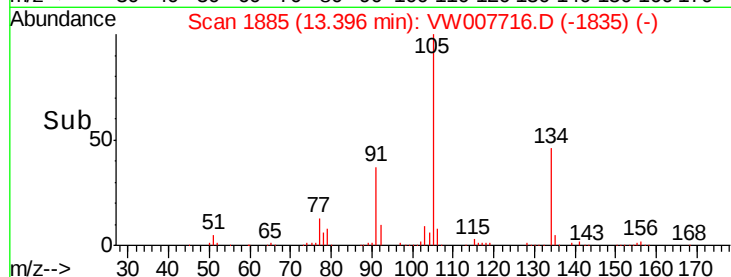
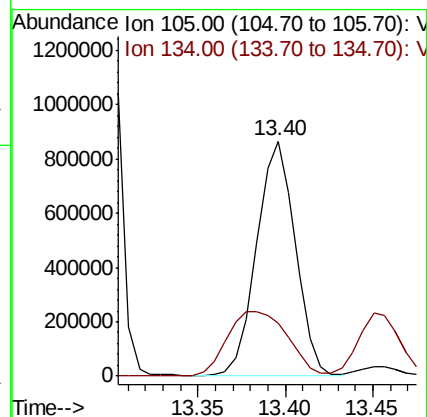
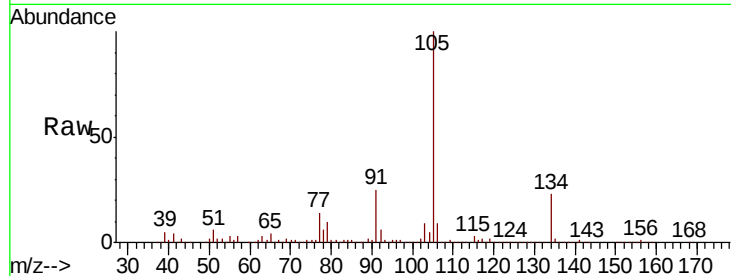
134 43.5 10.2 30.4#

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#86

p-Isopropyltoluene

Concen: 153.151 ug/l

RT: 13.51 min Scan# 1904

Delta R.T. 0.01 min

Lab File: VW007716.D

Acq: 19 Dec 2018 22:37

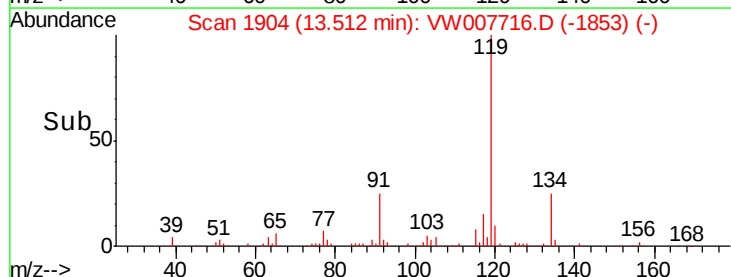
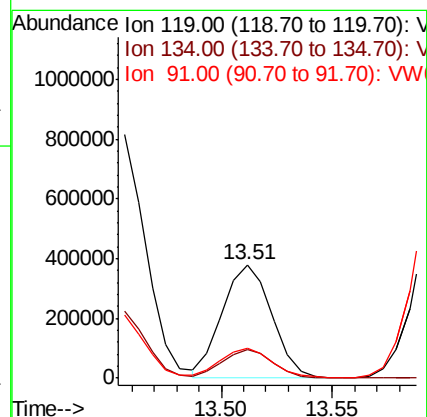
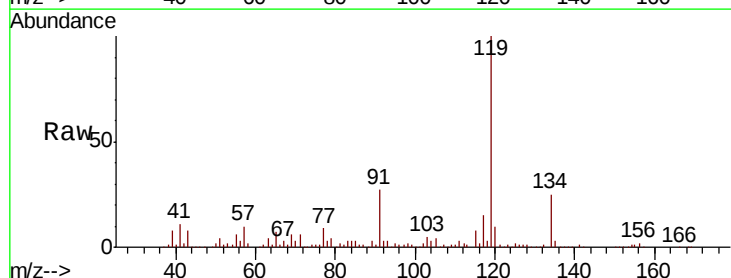
Tgt Ion:119 Resp: 583949

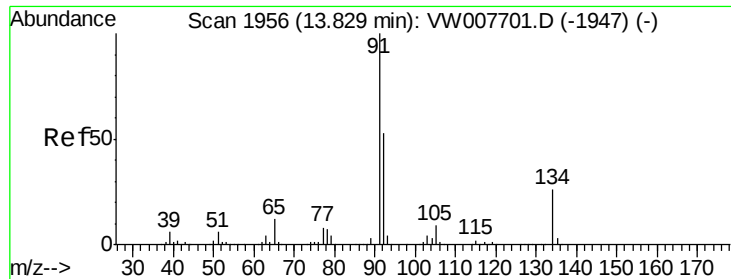
Ion Ratio Lower Upper

119 100

134 25.7 13.0 39.0

91 26.1 12.8 38.4





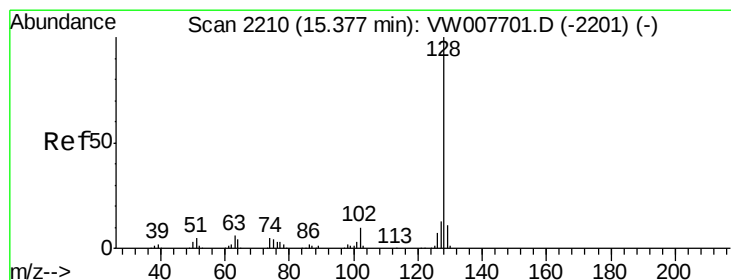
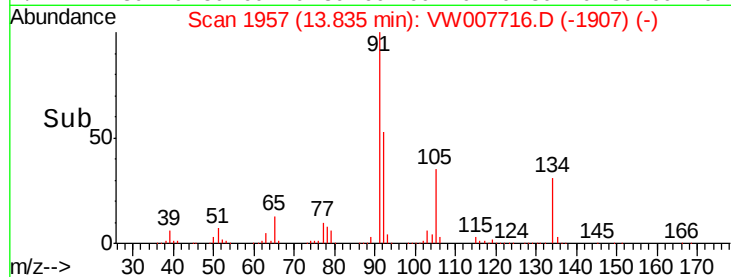
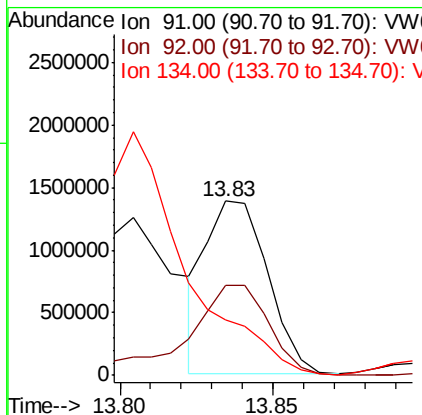
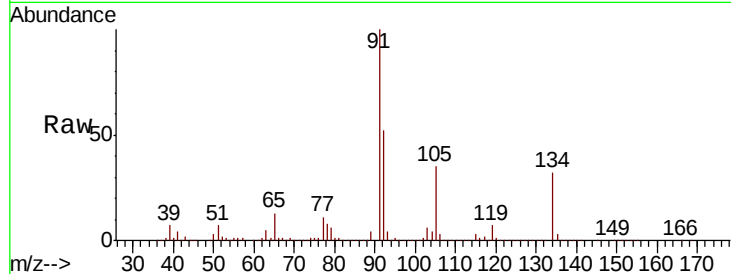
#89  
n-Butylbenzene  
Concen: 550.676 ug/l  
RT: 13.83 min Scan# 1957  
Delta R.T. 0.01 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
KY001SB103-121118-(23-25)

Tot Ion: 91 Resp: 1925137  
Ion Ratio Lower Upper  
91 100  
92 70.0 26.4 79.2  
134 0.0 13.7 41.0#

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#95  
Naphthalene  
Concen: 3304.785 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW007716.D  
Acq: 19 Dec 2018 22:37

Tgt Ion: 128 Resp: 6946164  
Ion Ratio Lower Upper  
128 100  
127 13.9 10.7 16.1  
129 11.1 8.8 13.2

