

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\  
 Data File : VX002428.D  
 Acq On : 09 Jun 2018 18:22  
 Operator : JC/MD  
 Sample : J3394-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-03

Manual Integrations  
 APPROVED

MMDadoda  
 6/11/2018 2:32:55 PM

Quant Time: Jun 11 08:15:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 209699   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 309382   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 281245   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 156958   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 148985     | 49.66  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 99.32% |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 112652     | 46.30  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 92.60% |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 443366     | 47.54  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.08% |       |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 152754     | 42.48  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 84.96% |       |          |

| Target Compounds        | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|-------------------------|-------|------|----------|-------|-------|--------|
| 31) Cyclohexane         | 5.58  | 56   | 16896    | 4.46  | ug/l  | 95     |
| 39) Methylcyclohexane   | 7.46  | 83   | 31531    | 8.07  | ug/l  | 98     |
| 65) Chlorobenzene       | 10.14 | 112  | 11926    | 1.70  | ug/l  | 97     |
| 73) Isopropylbenzene    | 11.02 | 105  | 297529   | 27.25 | ug/l  | 99     |
| 78) n-propylbenzene     | 11.37 | 91   | 282541   | 23.28 | ug/l  | 99     |
| 83) tert-Butylbenzene   | 11.77 | 119  | 25099    | 2.75  | ug/l  | 94     |
| 85) sec-Butylbenzene    | 11.95 | 105  | 171587   | 16.05 | ug/l  | 85     |
| 89) n-Butylbenzene      | 12.39 | 91   | 47523m   | 5.82  | ug/l  |        |
| 91) 1,2-Dichlorobenzene | 12.40 | 146  | 6004     | 1.06  | ug/l  | 96     |

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

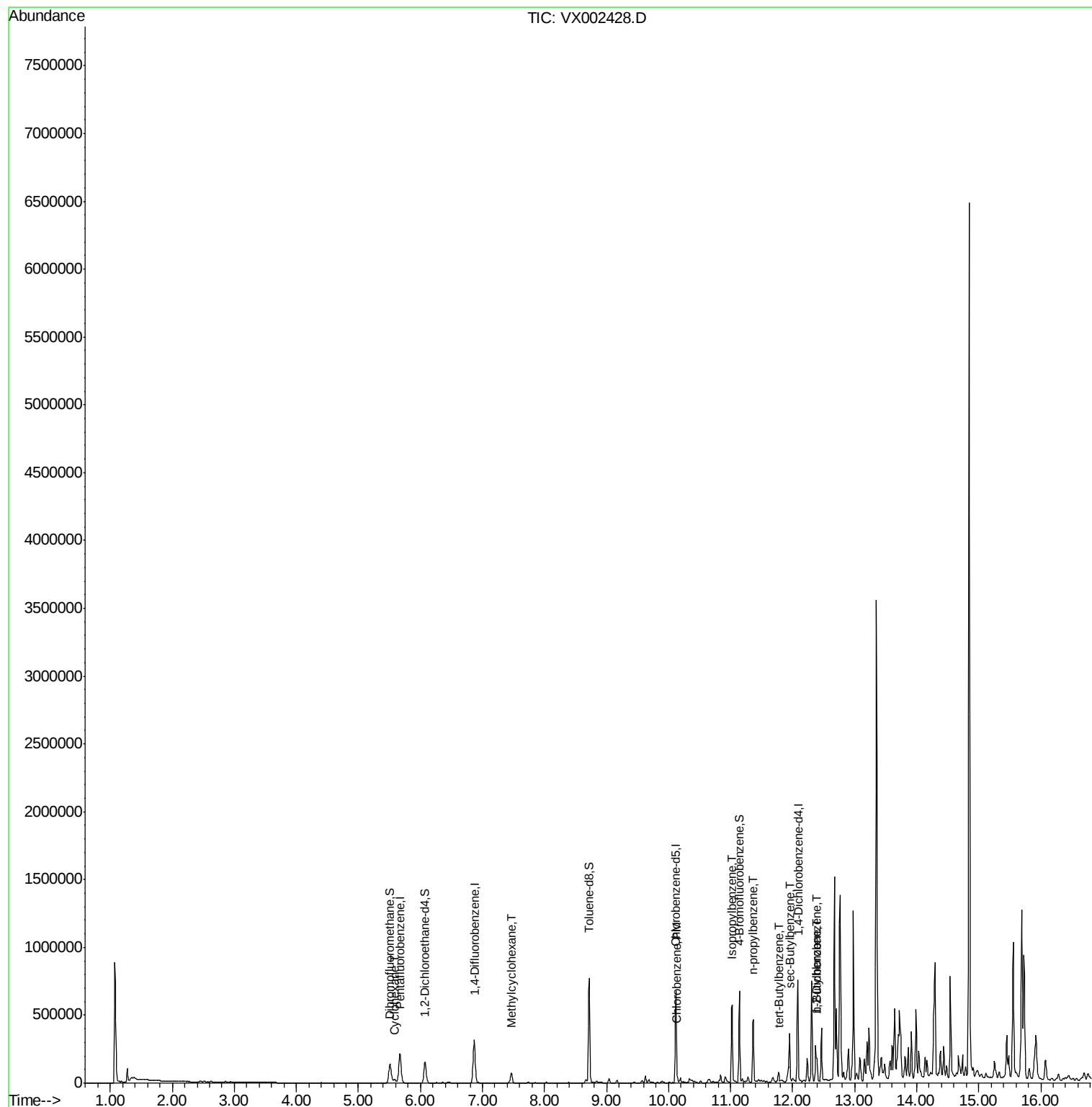
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\  
Data File : VX002428.D  
Acq On : 09 Jun 2018 18:22  
Operator : JC/MD  
Sample : J3394-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 13 Sample Multiplier: 1

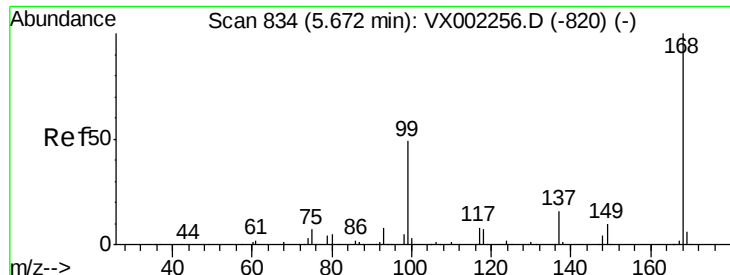
Instrument :  
MSVOA\_X  
ClientSampleId :  
W-03

Manual Integrations  
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6/11/2018 2:32:55 PM

Quant Time: Jun 11 08:15:10 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

Instrument :

MSVOA\_X

ClientSampled :

W-03

Tot Ion:168 Resp: 209699

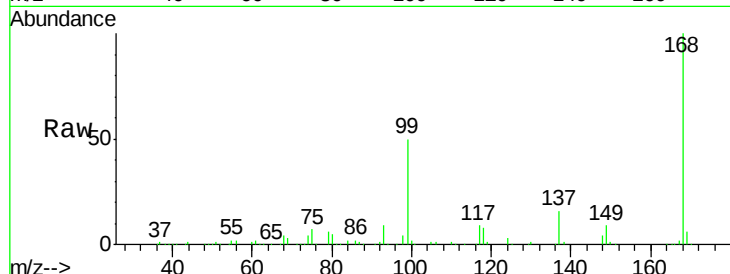
Ion Ratio Lower Upper

168 100

99 49.7 39.3 58.9

Manual Integrations  
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6/11/2018 2:32:55 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

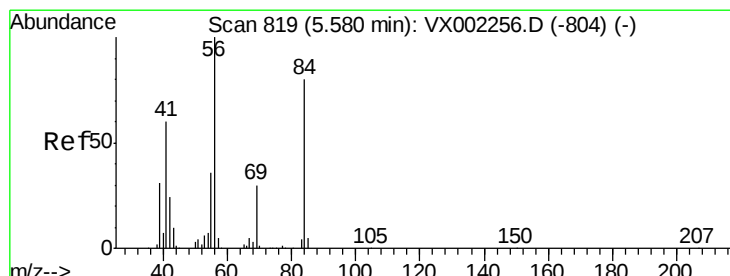
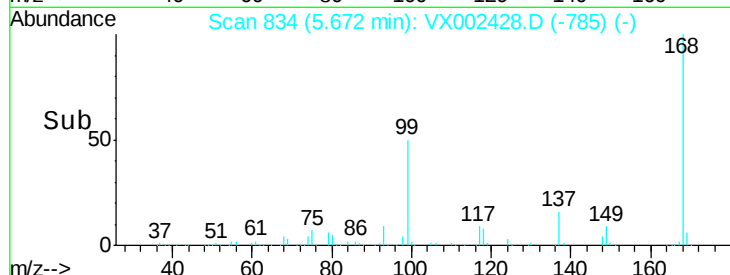
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 4.46 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

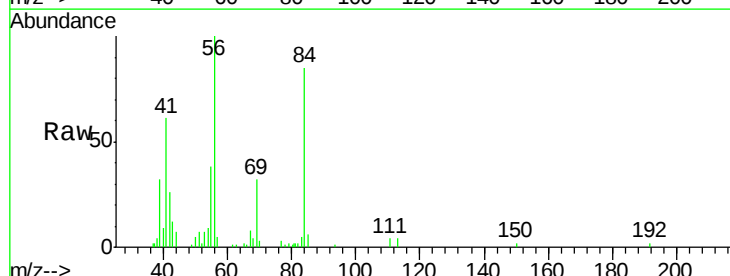
Tgt Ion: 56 Resp: 16896

Ion Ratio Lower Upper

56 100

69 31.9 23.7 35.5

84 84.6 64.1 96.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

5.58

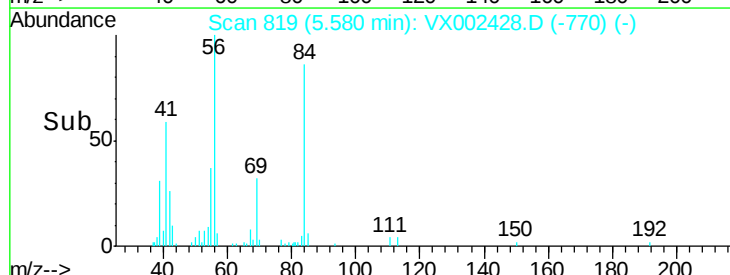
6000

4000

2000

0

Time--> 5.45 5.50 5.55 5.60 5.65





#33

1,2-Dichloroethane-d4

Concen: 49.66 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

Instrument :

MSVOA\_X

ClientSampleId :

W-03

Tot Ion: 65 Resp: 148985

Ion Ratio Lower Upper

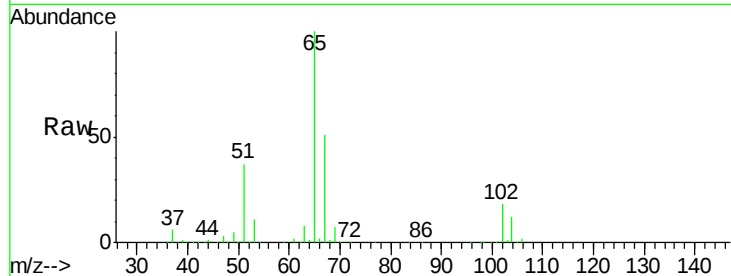
65 100

67 51.3 0.0 102.6

Manual Integrations  
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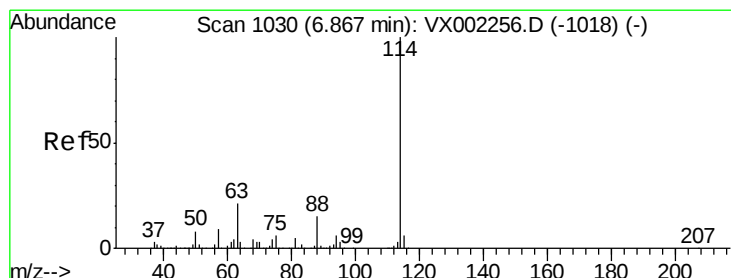
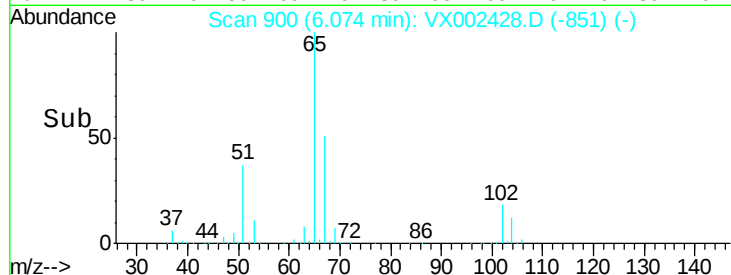
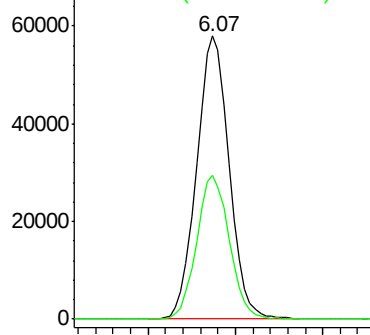
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Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

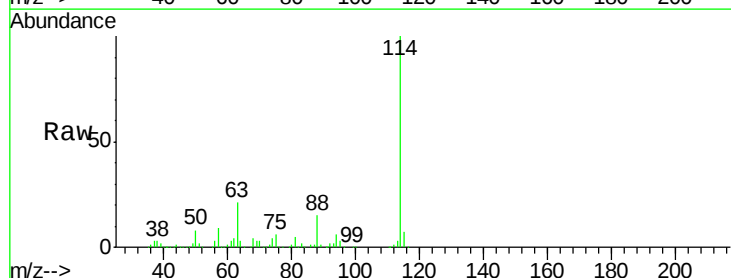
Tgt Ion: 114 Resp: 309382

Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.4

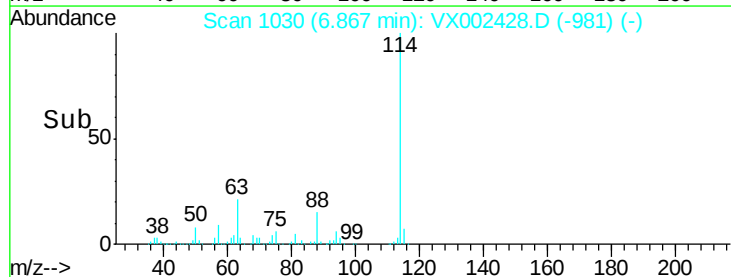
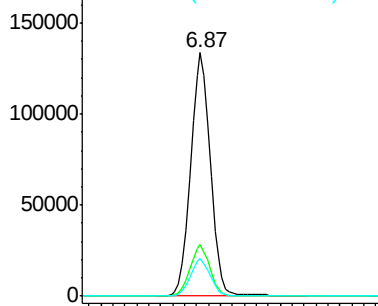
88 15.5 0.0 30.0

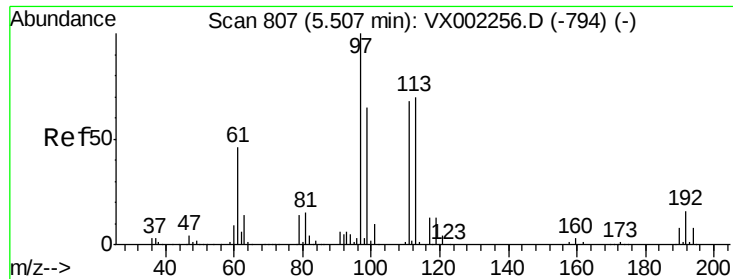


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





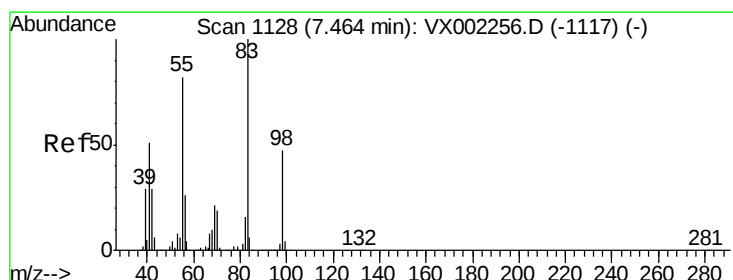
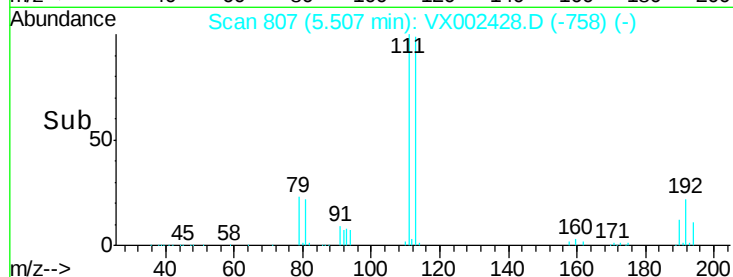
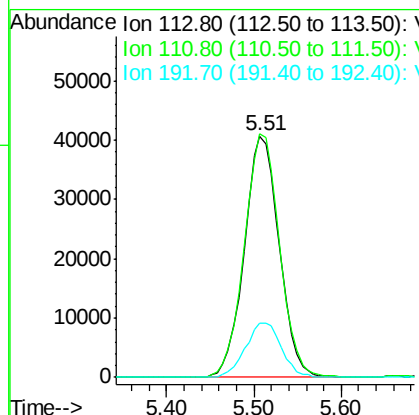
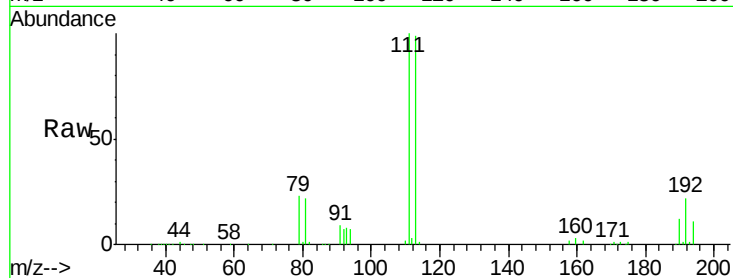
#35  
Dibromofluoromethane  
Concen: 46.30 ug/l  
RT: 5.51 min Scan# 807  
Delta R.T. -0.00 min  
Lab File: VX002428.D  
Acq: 09 Jun 2018 18:22

Instrument :  
MSVOA\_X  
ClientSampled :  
W-03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 112652 |       |       |
| 111     | 102.1 | 81.4   | 122.0 |       |
| 192     | 23.3  | 19.1   | 28.7  |       |

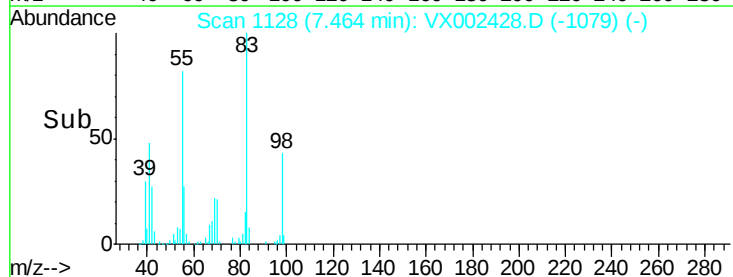
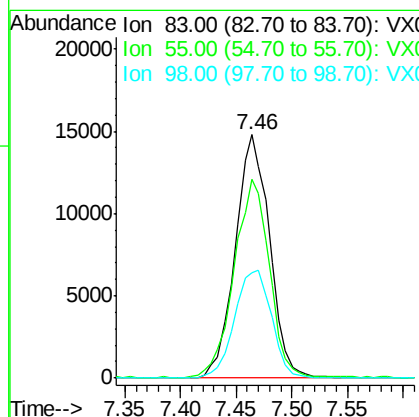
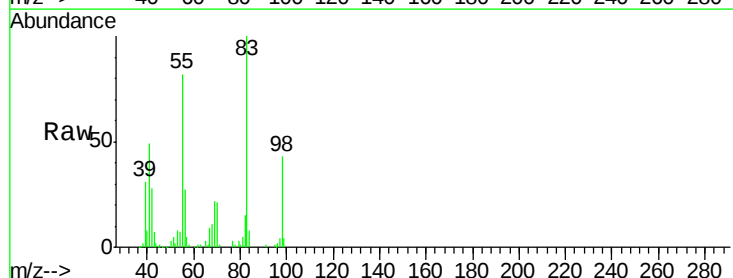
Manual Integrations  
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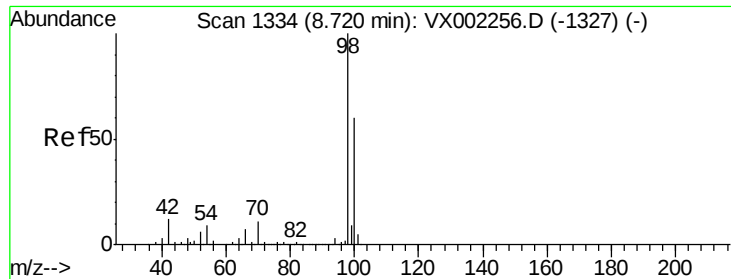
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6/11/2018 2:32:55 PM



#39  
Methylcyclohexane  
Concen: 8.07 ug/l  
RT: 7.46 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: VX002428.D  
Acq: 09 Jun 2018 18:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 83      | 100   | 31531 |       |       |
| 55      | 81.3  | 65.4  | 98.0  |       |
| 98      | 43.3  | 37.4  | 56.0  |       |





#50

Toluene-d8

Concen: 47.54 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

Instrument :

MSVOA\_X

ClientSampleId :

W-03

Tot Ion: 98 Resp: 443366

Ion Ratio Lower Upper

98 100

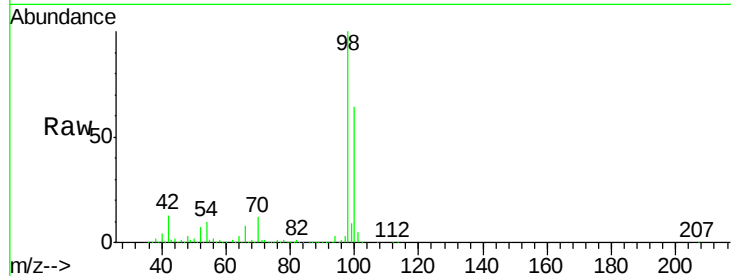
100 63.3 50.9 76.3

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

300000

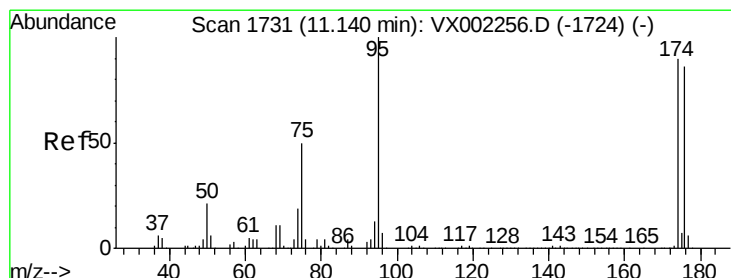
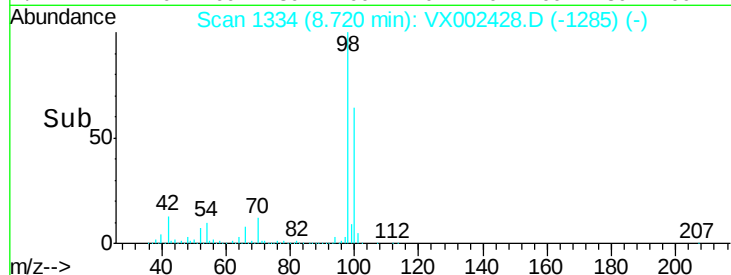
200000

100000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 42.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

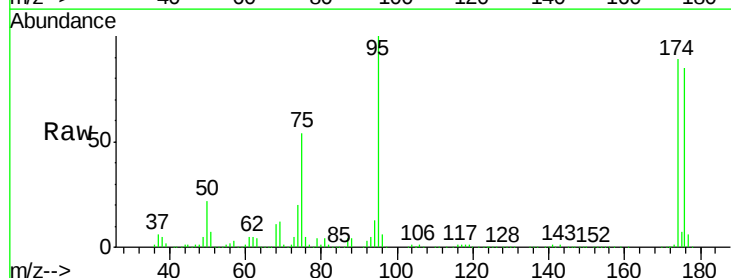
Tgt Ion: 95 Resp: 152754

Ion Ratio Lower Upper

95 100

174 94.8 0.0 187.4

176 91.2 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

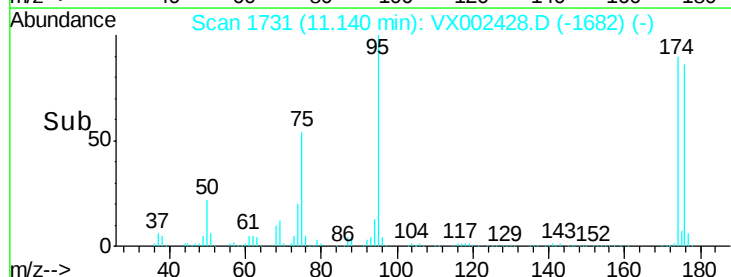
100000

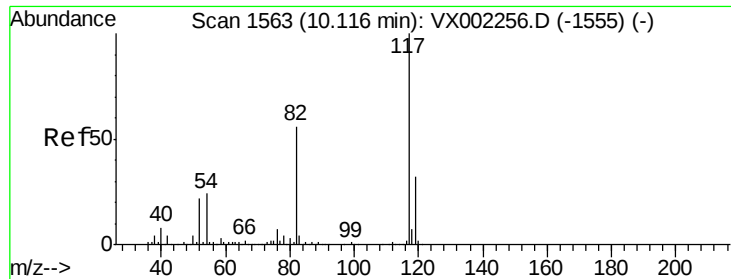
50000

0

11.10 11.15

Time-->





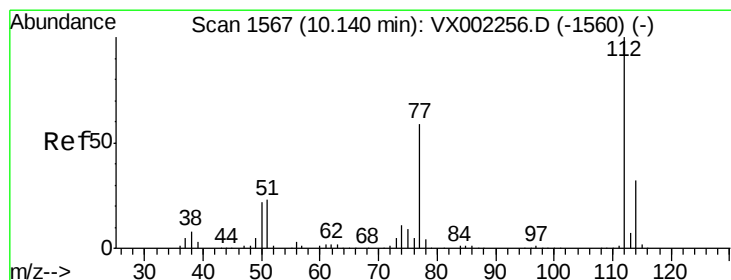
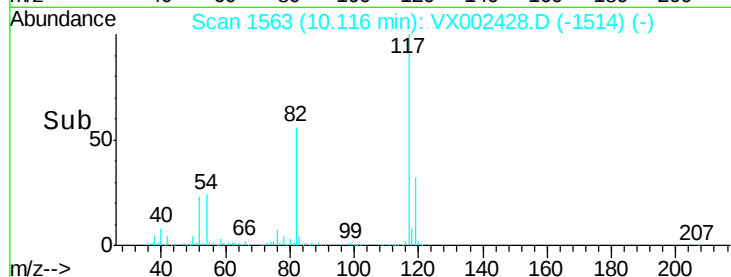
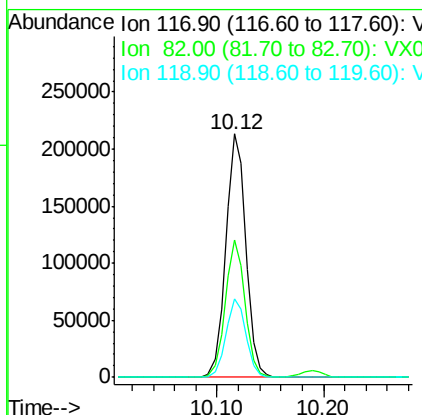
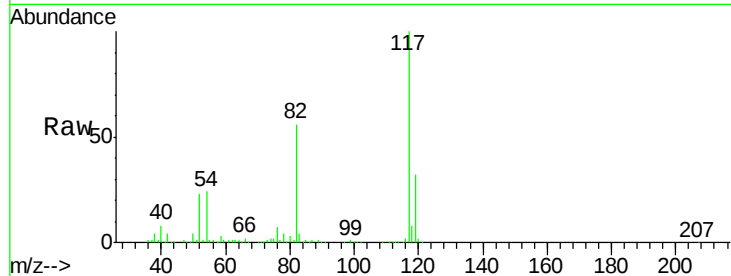
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002428.D  
Acq: 09 Jun 2018 18:22

Instrument :  
MSVOA\_X  
ClientSampled :  
W-03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 281245 |       |       |
| 82      | 56.3  | 45.0   | 67.4  |       |
| 119     | 32.3  | 25.8   | 38.6  |       |

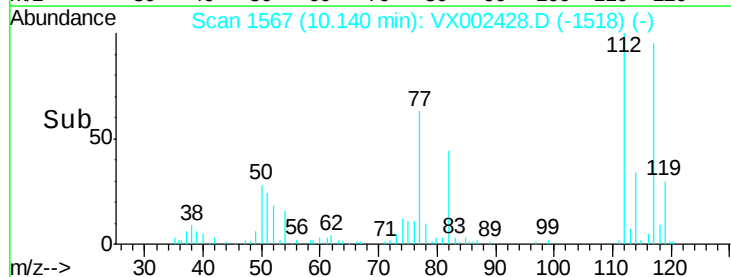
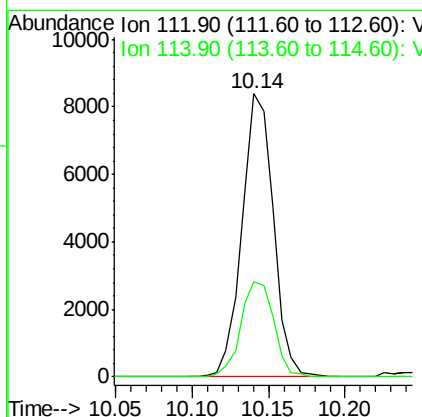
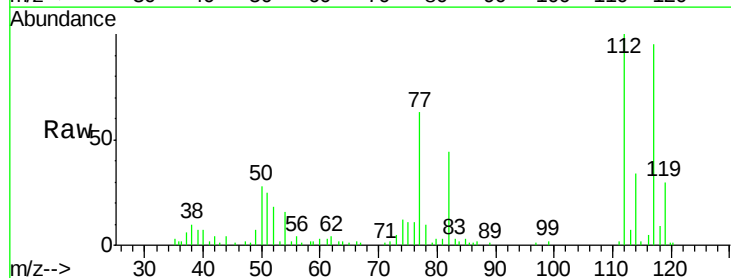
Manual Integrations  
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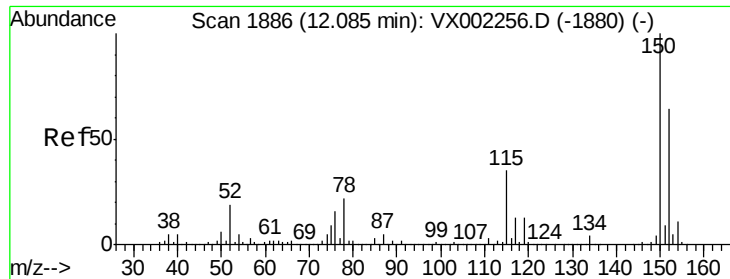
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6/11/2018 2:32:55 PM



#65  
Chlorobenzene  
Concen: 1.70 ug/l  
RT: 10.14 min Scan# 1567  
Delta R.T. -0.00 min  
Lab File: VX002428.D  
Acq: 09 Jun 2018 18:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 11926 |       |       |
| 114     | 33.5  | 25.3  | 37.9  |       |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

Instrument :

MSVOA\_X

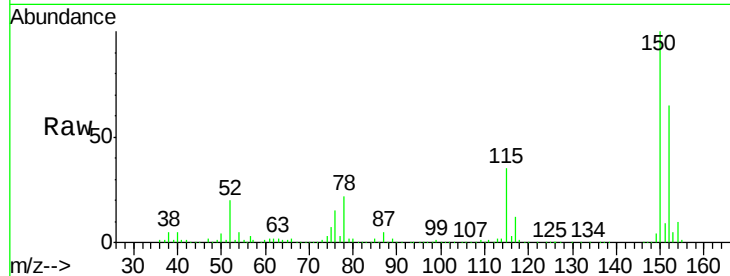
ClientSampled :

W-03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 156958 |       |       |
| 115     | 55.1  | 40.1   | 120.2 |       |
| 150     | 154.9 | 0.0    | 347.2 |       |

Manual Integrations  
APPROVED

MMDadoda  
6/11/2018 2:32:55 PM

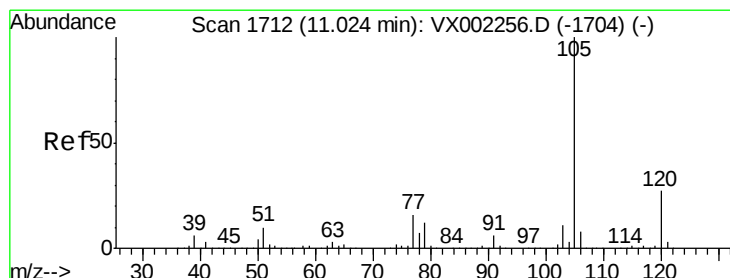
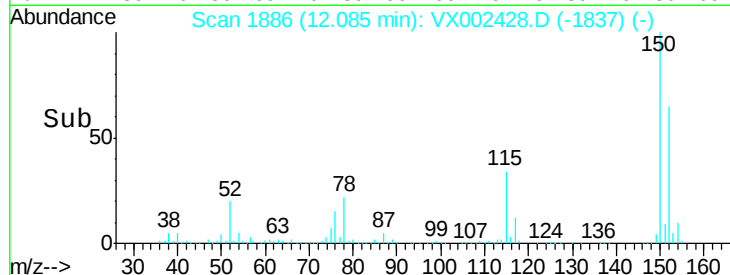
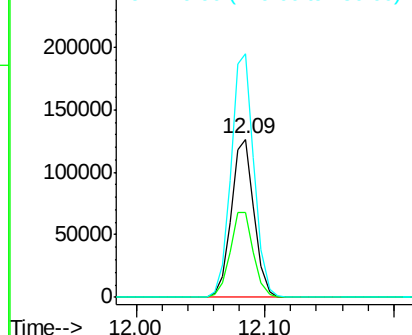


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 27.25 ug/l

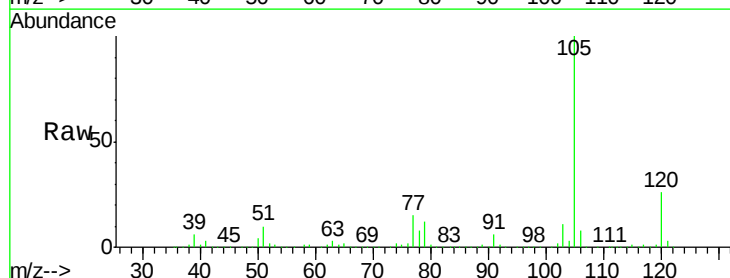
RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002428.D

Acq: 09 Jun 2018 18:22

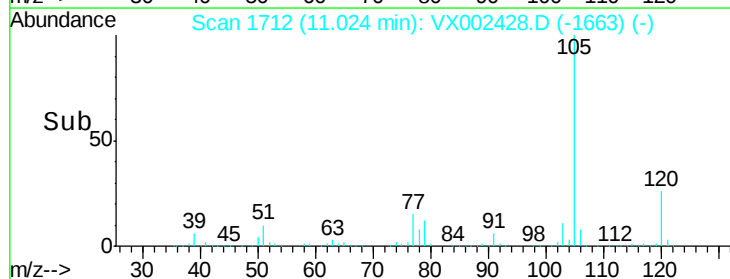
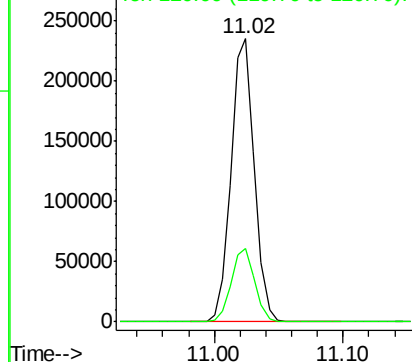
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 297529 |       |       |
| 120     | 26.2  | 13.5   | 40.4  |       |

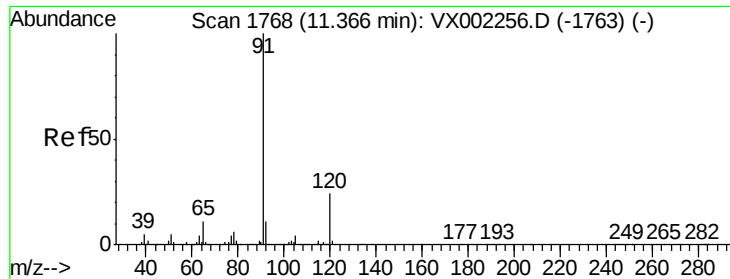


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





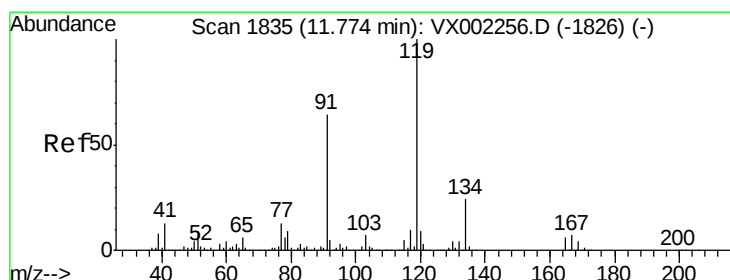
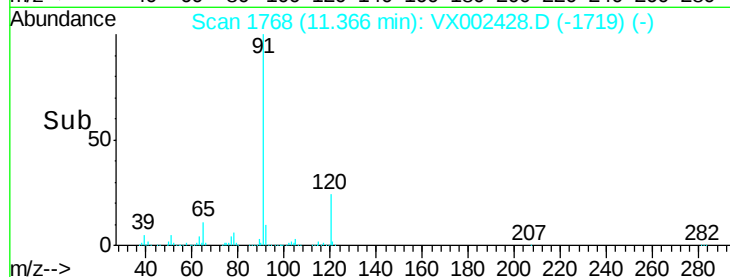
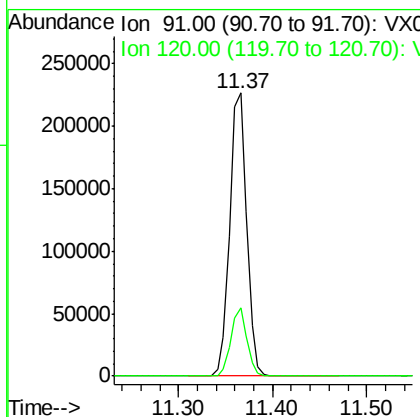
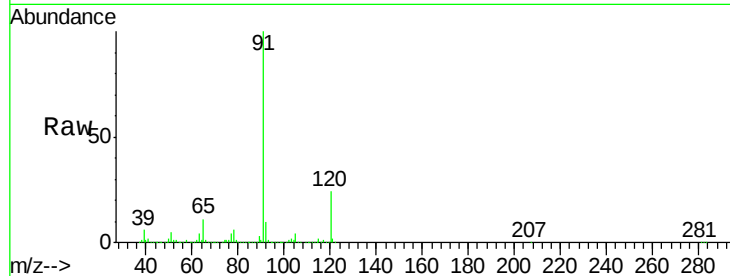
#78  
n-propylbenzene  
Concen: 23.28 ug/l  
RT: 11.37 min Scan# 1768  
Delta R.T. -0.00 min  
Lab File: VX002428.D  
Acq: 09 Jun 2018 18:22

Instrument :  
MSVOA\_X  
ClientSampled :  
W-03

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 91      | 100  |       |       |       |
| 120     | 22.9 | 11.8  | 35.4  |       |

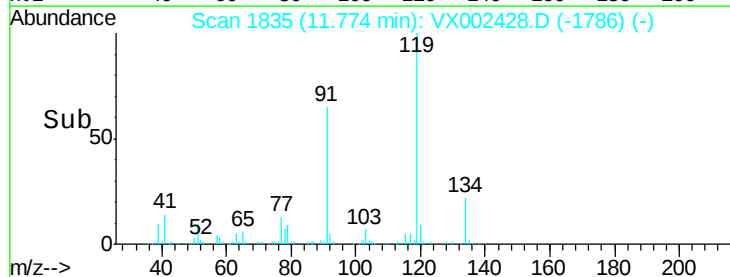
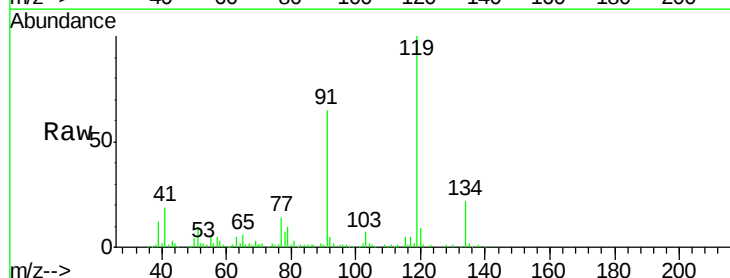
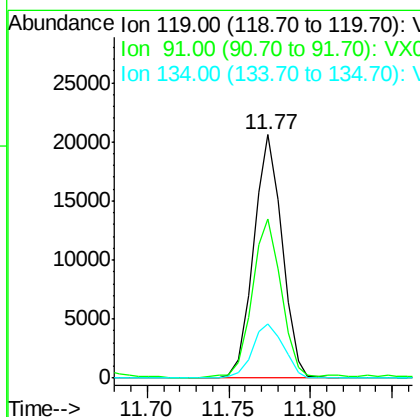
Manual Integrations  
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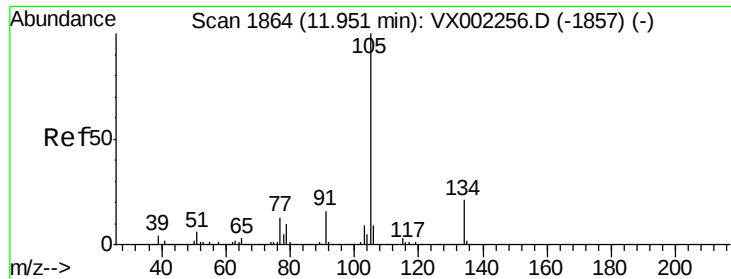
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#83  
tert-Butylbenzene  
Concen: 2.75 ug/l  
RT: 11.77 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX002428.D  
Acq: 09 Jun 2018 18:22

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 119     | 100  |       |       |       |
| 91      | 66.1 | 30.3  | 90.9  |       |
| 134     | 24.2 | 11.7  | 35.1  |       |





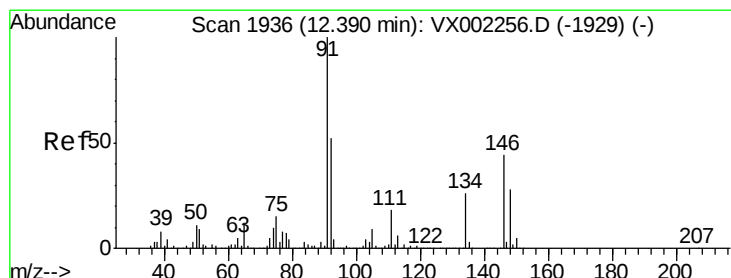
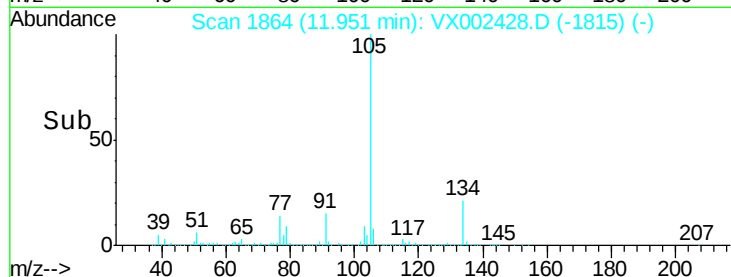
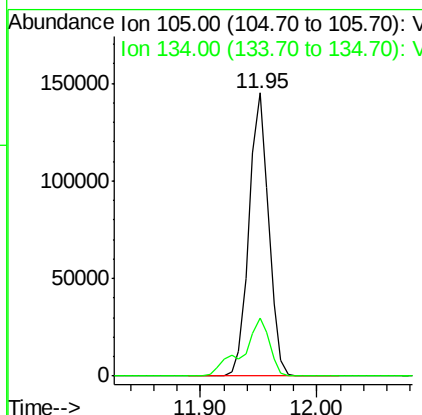
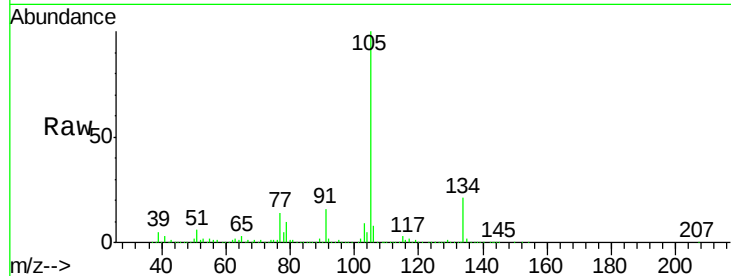
#85  
 sec-Butylbenzene  
 Concen: 16.05 ug/l  
 RT: 11.95 min Scan# 1864  
 Delta R.T. -0.00 min  
 Lab File: VX002428.D  
 Acq: 09 Jun 2018 18:22

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-03

Tot Ion:105 Resp: 171587  
 Ion Ratio Lower Upper  
 105 100  
 134 27.6 10.4 31.1

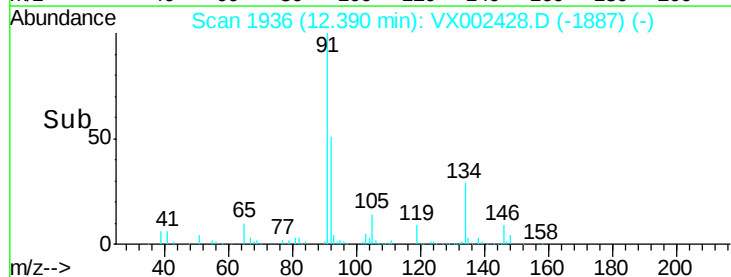
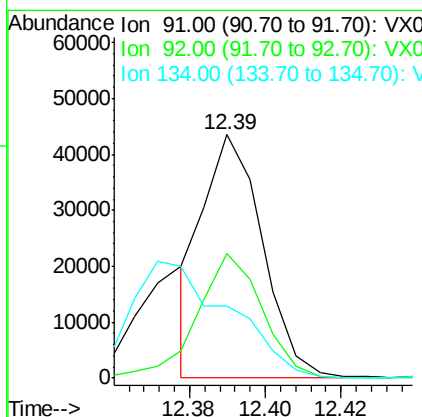
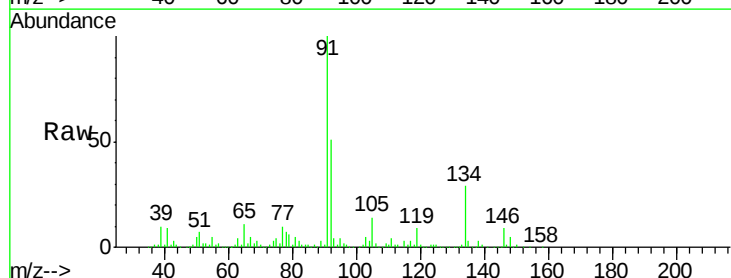
Manual Integrations  
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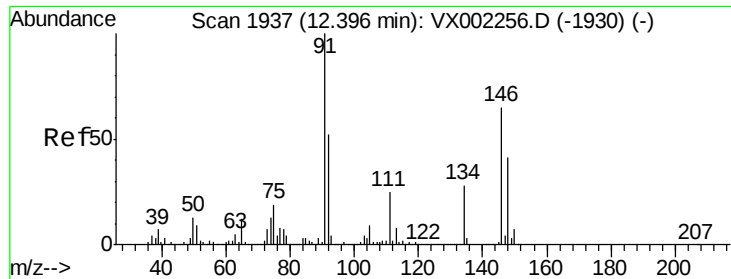
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#89  
 n-Butylbenzene  
 Concen: 5.82 ug/l m  
 RT: 12.39 min Scan# 1936  
 Delta R.T. -0.00 min  
 Lab File: VX002428.D  
 Acq: 09 Jun 2018 18:22

Tgt Ion: 91 Resp: 47523  
 Ion Ratio Lower Upper  
 91 100  
 92 56.5 26.0 78.0  
 134 79.5 13.5 40.5#





#91  
 1,2-Dichlorobenzene  
 Concen: 1.06 ug/l  
 RT: 12.40 min Scan# 1937  
 Delta R.T. -0.00 min  
 Lab File: VX002428.D  
 Acq: 09 Jun 2018 18:22

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.2  | 19.4  | 58.1  |
| 148     | 63.4  | 31.7  | 95.1  |

Manual Integrations  
 APPROVED

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