

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080818\  
 Data File : VX003935.D  
 Acq On : 08 Aug 2018 20:25  
 Operator : JC/MD  
 Sample : J4387-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0556

Manual Integrations  
 APPROVED

MMDadoda  
 8/9/2018 10:40:31 AM

Quant Time: Aug 09 10:52:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 329018   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 513644   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 494605   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 271984   | 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   | 210867     | 48.35   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 96.70%  |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 180889     | 46.49   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 92.98%  |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 743274     | 49.12   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 98.24%  |       |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 275821     | 56.33   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 112.66% |       |          |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 31) Cyclohexane            | 5.58  | 56   | 3860204  | 614.09  | ug/l   | 99     |
| 39) Methylcyclohexane      | 7.46  | 83   | 3320192  | 489.51  | ug/l   | 99     |
| 52) Toluene                | 8.79  | 92   | 477220   | 43.72   | ug/l   | 99     |
| 67) Ethyl Benzene          | 10.26 | 91   | 14299834 | 678.77  | ug/l # | 67     |
| 68) m/p-Xylenes            | 10.37 | 106  | 16746108 | 2034.30 | ug/l # | 1      |
| 69) o-Xylene               | 10.71 | 106  | 10584847 | 1362.13 | ug/l   | 62     |
| 73) Isopropylbenzene       | 11.02 | 105  | 2125705  | 105.65  | ug/l   | 96     |
| 78) n-propylbenzene        | 11.36 | 91   | 3149203  | 139.39  | ug/l   | 100    |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 4287908  | 261.36  | ug/l   | 98     |
| 83) tert-Butylbenzene      | 11.77 | 119  | 38641m   | 2.39    | ug/l   |        |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 10471398 | 634.76  | ug/l   | 88     |
| 85) sec-Butylbenzene       | 11.95 | 105  | 276134m  | 14.50   | ug/l   |        |
| 86) p-Isopropyltoluene     | 12.07 | 119  | 250871   | 14.68   | ug/l   | 98     |
| 95) Naphthalene            | 13.84 | 128  | 4852305  | 239.52  | ug/l   | 99     |

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

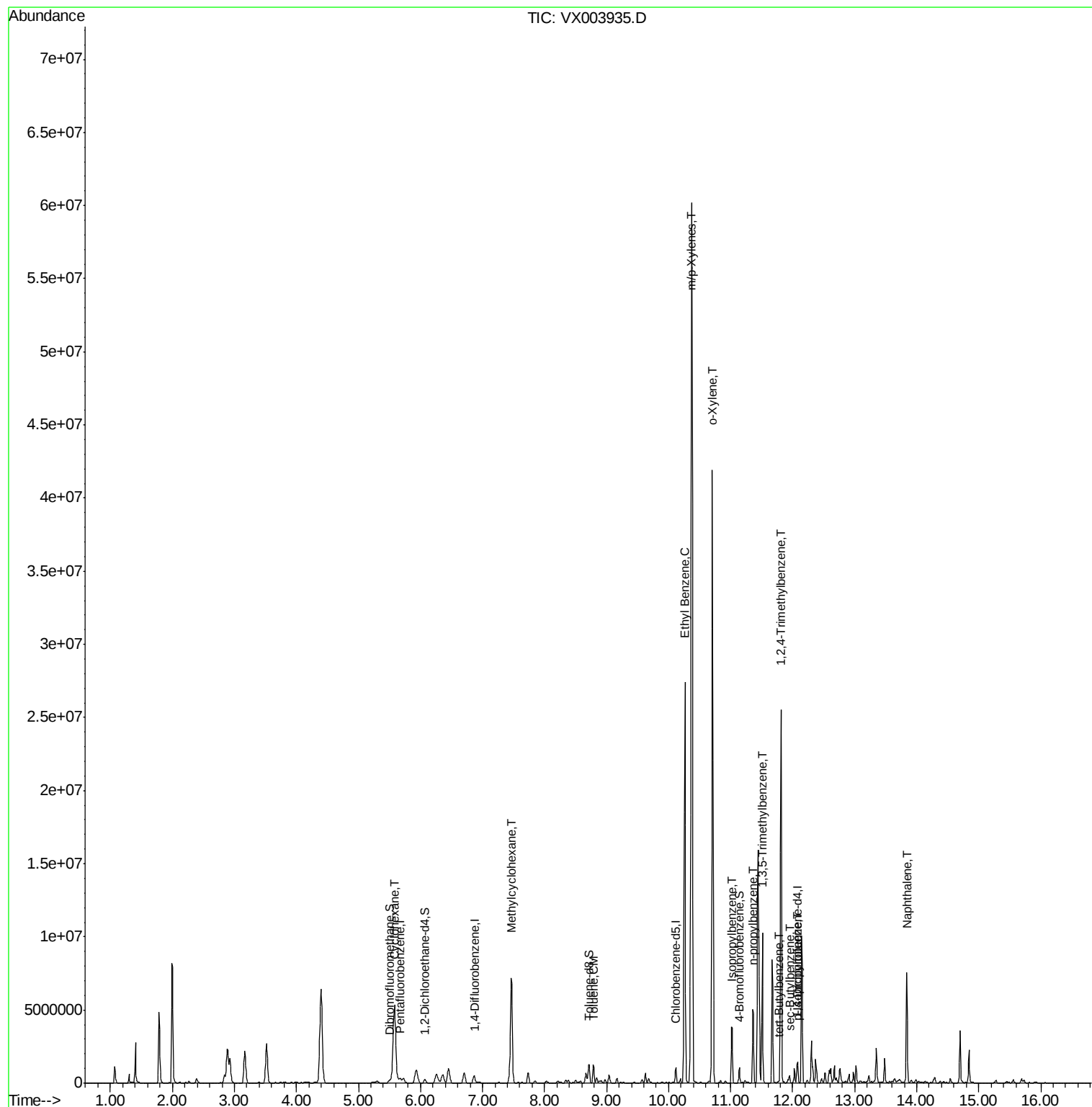
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX080818\  
Data File : VX003935.D  
Acq On : 08 Aug 2018 20:25  
Operator : JC/MD  
Sample : J4387-06  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 21 Sample Multiplier: 1

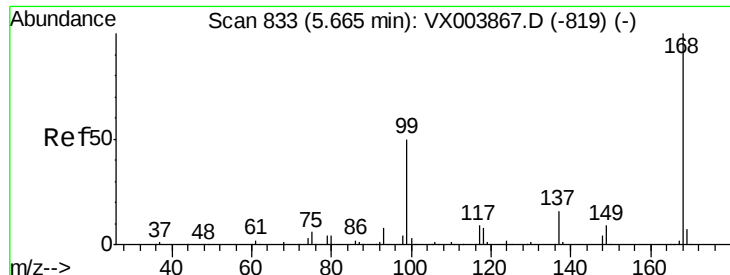
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0556

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8/9/2018 10:40:31 AM

Quant Time: Aug 09 10:52:19 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 07:45:48 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003935.D

Acq: 08 Aug 2018 20:25

Instrument :

MSVOA\_X

ClientSampled :

FL-0556

Tot Ion:168 Resp: 329018

Ion Ratio Lower Upper

168 100

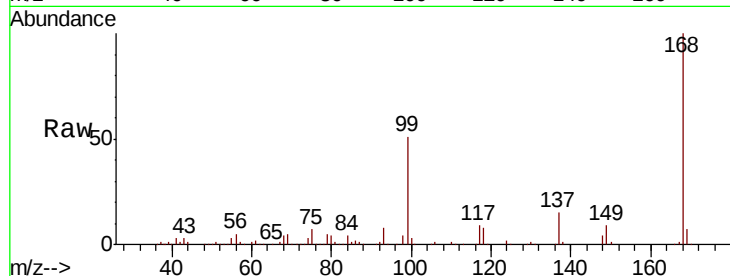
99 50.8 40.1 60.1

Manual Integrations

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8/9/2018 10:40:31 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

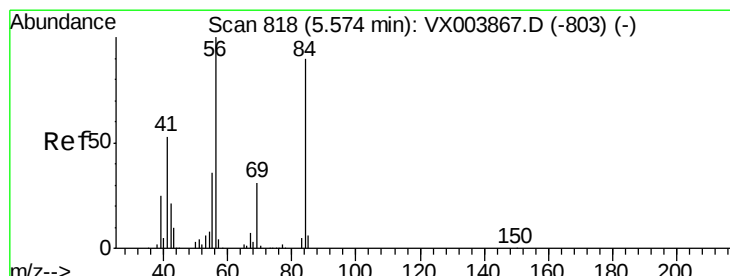
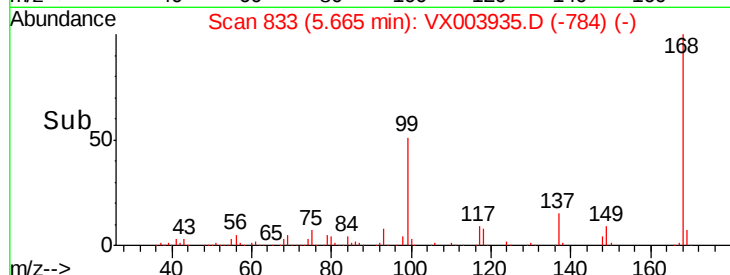
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 614.09 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX003935.D

Acq: 08 Aug 2018 20:25

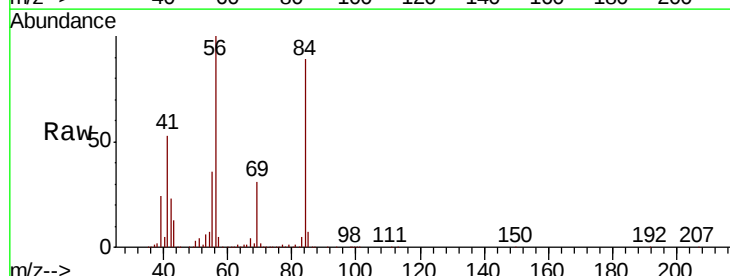
Tgt Ion: 56 Resp: 3860204

Ion Ratio Lower Upper

56 100

69 30.7 24.9 37.3

84 89.1 71.7 107.5



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

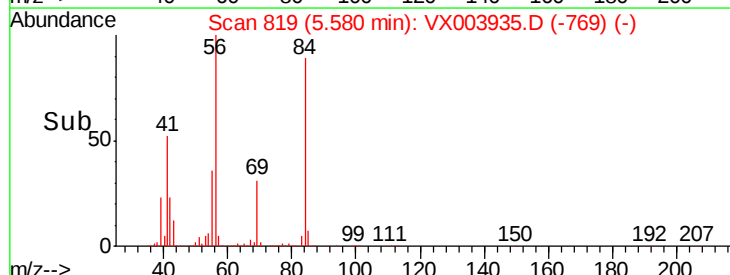
1500000

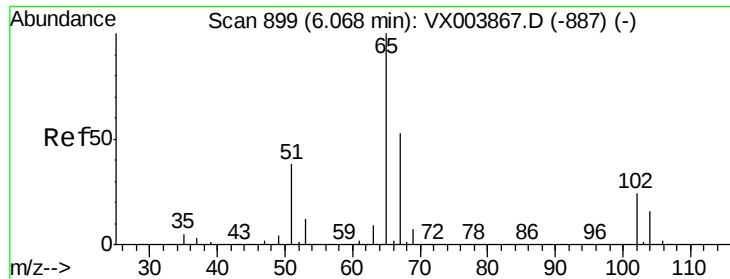
1000000

500000

0

Time--> 5.40 5.50 5.60 5.70





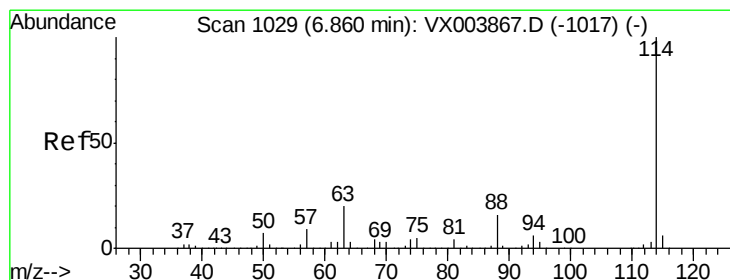
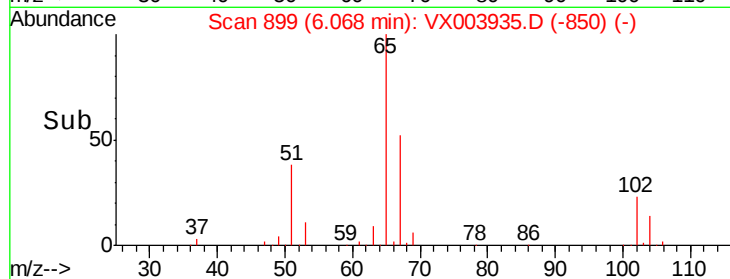
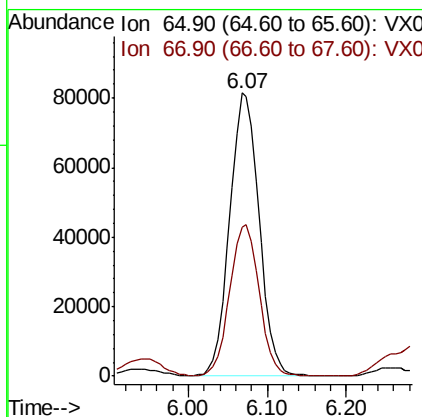
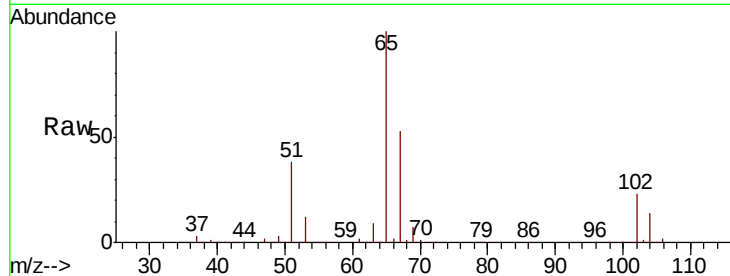
#33  
 1,2-Dichloroethane-d4  
 Concen: 48.35 ug/l  
 RT: 6.07 min Scan# 899  
 Delta R.T. -0.00 min  
 Lab File: VX003935.D  
 Acq: 08 Aug 2018 20:25

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0556

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 210867 |       |       |
| 67      | 53.3  | 0.0    | 105.8 |       |

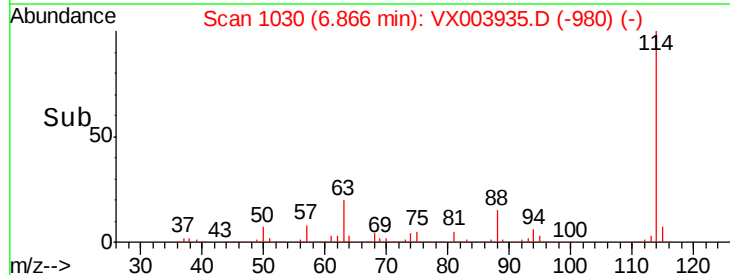
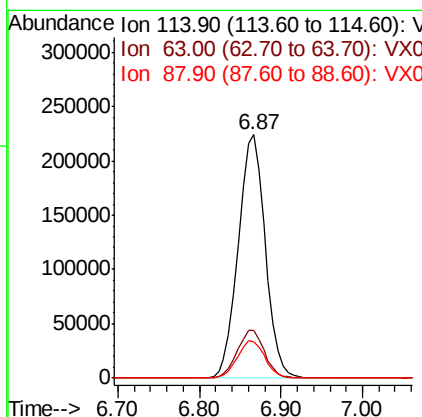
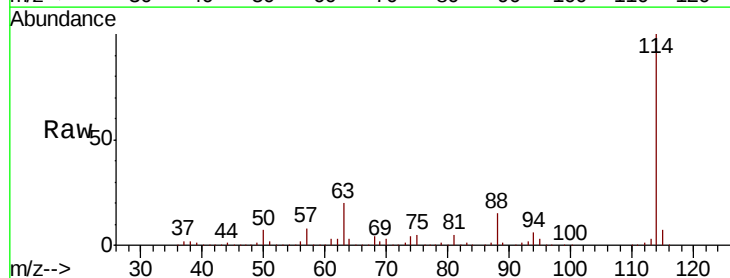
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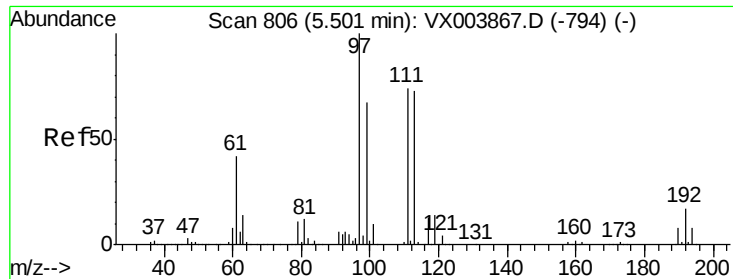
MMDadoda  
 8/9/2018 10:40:31 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.01 min  
 Lab File: VX003935.D  
 Acq: 08 Aug 2018 20:25

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 513644 |       |       |
| 63      | 19.5  | 0.0    | 39.0  |       |
| 88      | 14.9  | 0.0    | 32.0  |       |





#35

Dibromofluoromethane

Concen: 46.49 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX003935.D

Acq: 08 Aug 2018 20:25

Instrument :

MSVOA\_X

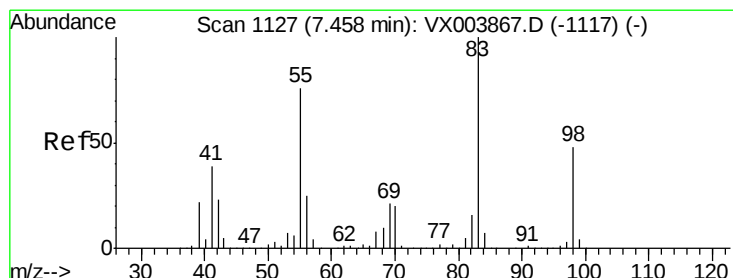
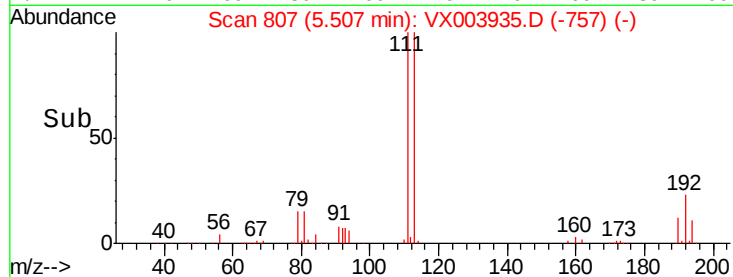
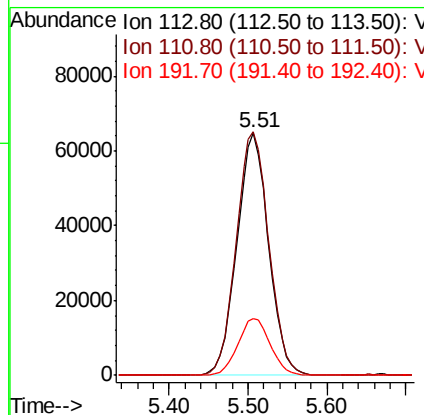
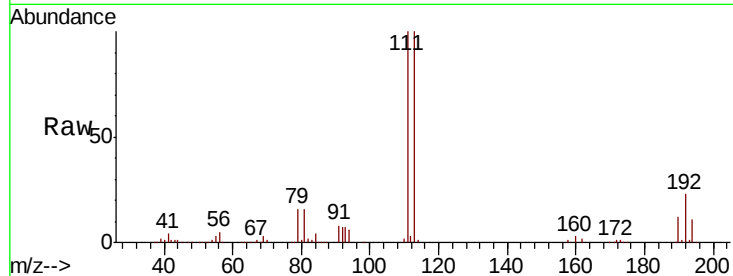
ClientSampleId :

FL-0556

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 180889 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 103.1 | 82.0  | 123.0  |
| 192       | 24.0  | 19.0  | 28.4   |

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#39

Methylcyclohexane

Concen: 489.51 ug/l

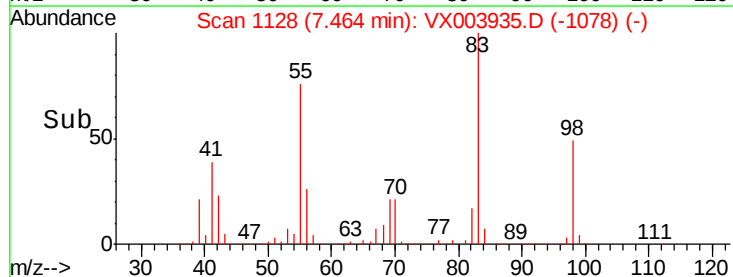
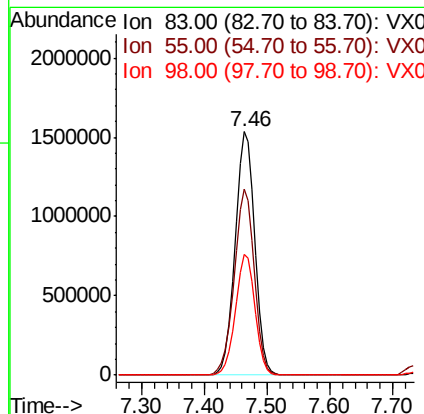
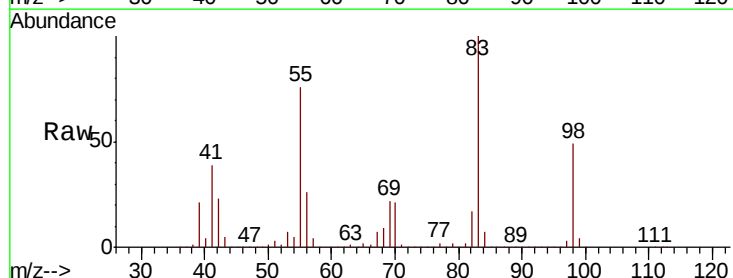
RT: 7.46 min Scan# 1128

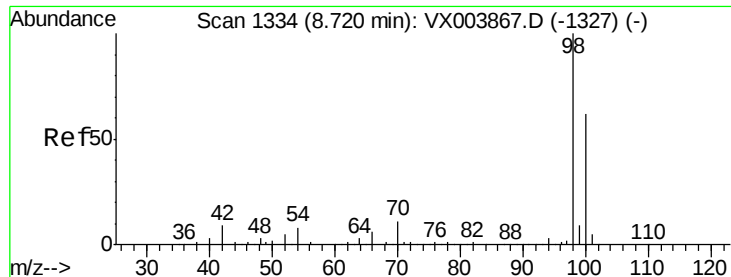
Delta R.T. 0.01 min

Lab File: VX003935.D

Acq: 08 Aug 2018 20:25

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 83    | Resp: | 3320192 |
| Ion Ratio | Lower | Upper |         |
| 83        | 100   |       |         |
| 55        | 76.4  | 61.0  | 91.6    |
| 98        | 49.4  | 38.6  | 57.8    |





#50

Toluene-d8

Concen: 49.12 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX003935.D

Acq: 08 Aug 2018 20:25

Instrument :

MSVOA\_X

ClientSampled :

FL-0556

Tot Ion: 98 Resp: 743274

Ion Ratio Lower Upper

98 100

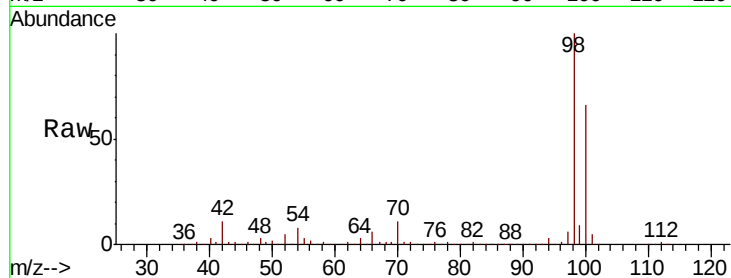
100 65.7 53.3 79.9

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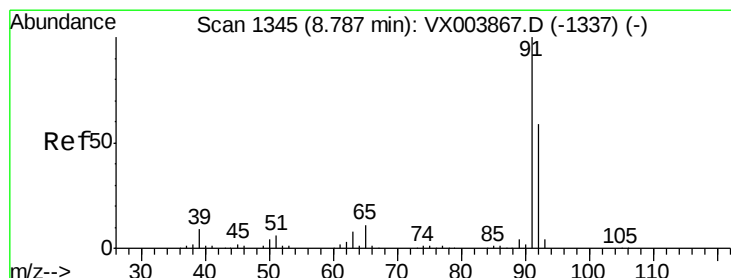
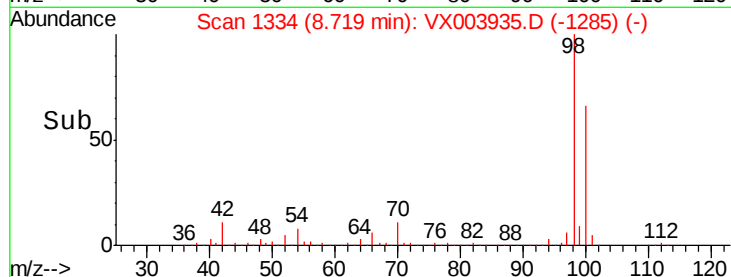
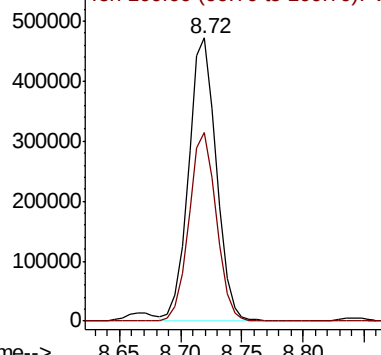
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Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#52

Toluene

Concen: 43.72 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX003935.D

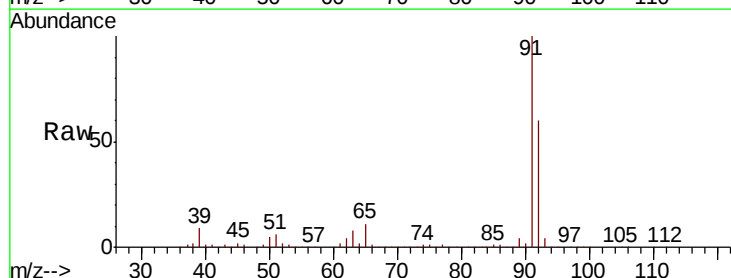
Acq: 08 Aug 2018 20:25

Tgt Ion: 92 Resp: 477220

Ion Ratio Lower Upper

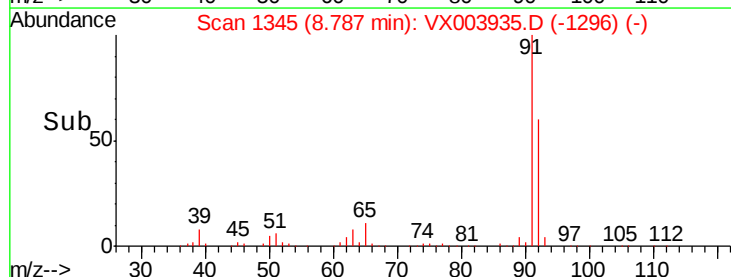
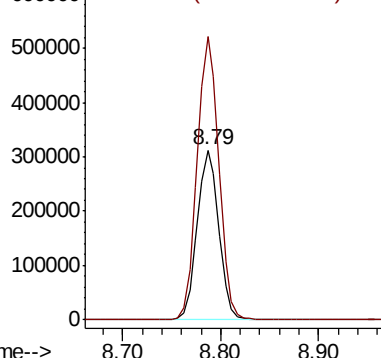
92 100

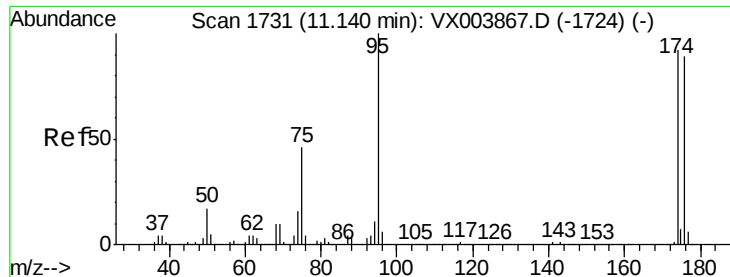
91 168.3 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





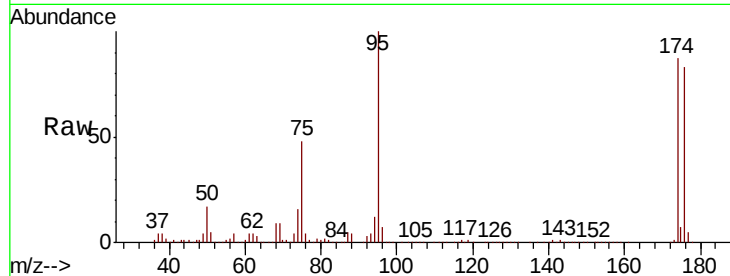
#62  
4-Bromofluorobenzene  
Concen: 56.33 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0556

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 275821 |       |       |
| 174     | 90.0  | 0.0    | 182.8 |       |
| 176     | 87.3  | 0.0    | 179.0 |       |

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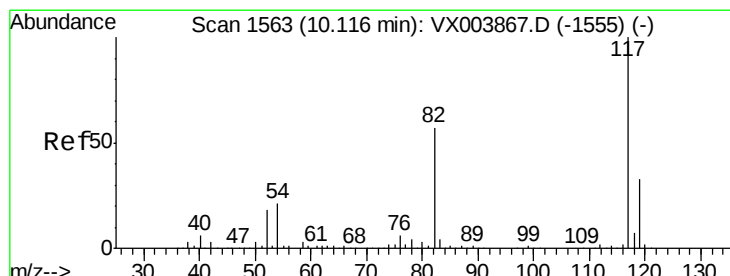
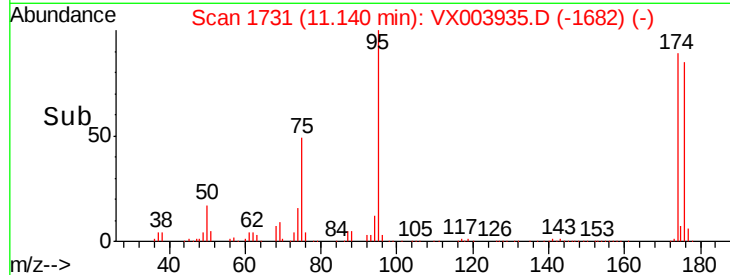
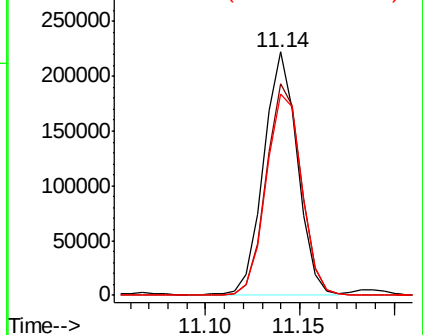


Abundance

Ion 94.90 (94.60 to 95.60): VX003935.D (-1682) (-)

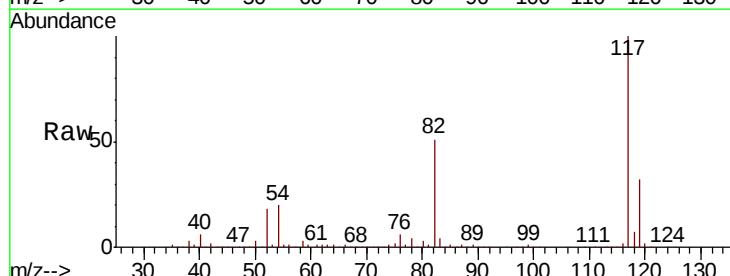
Ion 173.80 (173.50 to 174.50): VX003935.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003935.D (-1682) (-)



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 494605 |       |       |
| 82      | 50.9  | 45.4   | 68.0  |       |
| 119     | 31.9  | 26.6   | 40.0  |       |

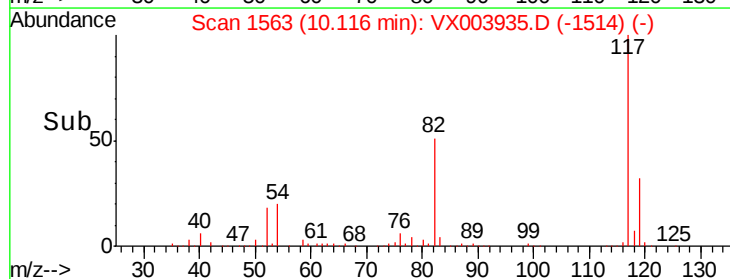
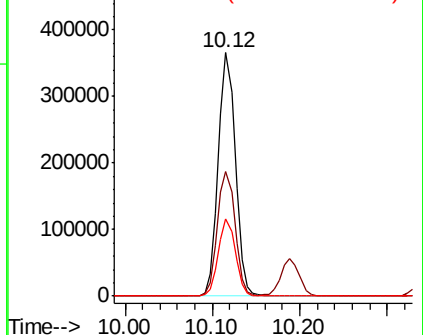


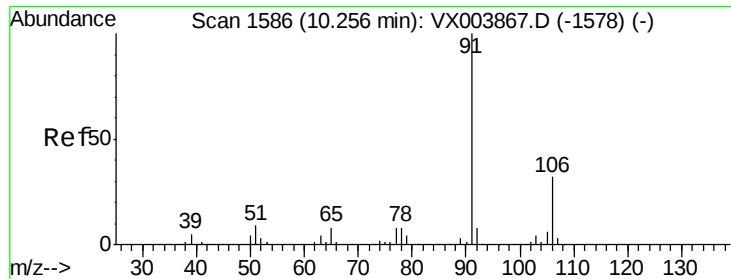
Abundance

Ion 116.90 (116.60 to 117.60): VX003935.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003935.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003935.D (-1514) (-)





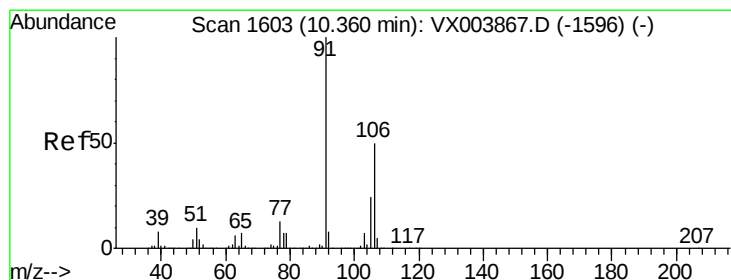
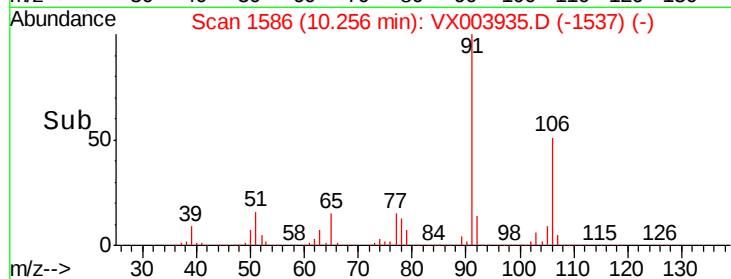
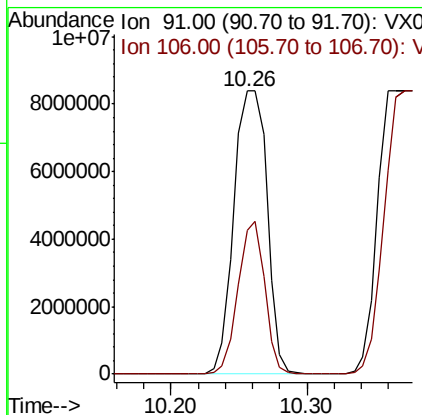
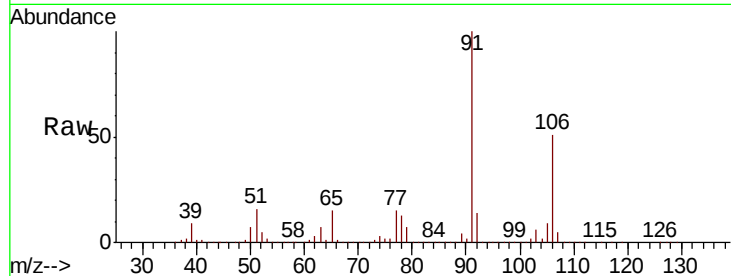
#67  
Ethyl Benzene  
Concen: 678.77 ug/l  
RT: 10.26 min Scan# 1586  
Delta R.T. -0.00 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0556

Tot Ion: 91 Resp:14299834  
Ion Ratio Lower Upper  
91 100  
106 50.7 25.9 38.9#

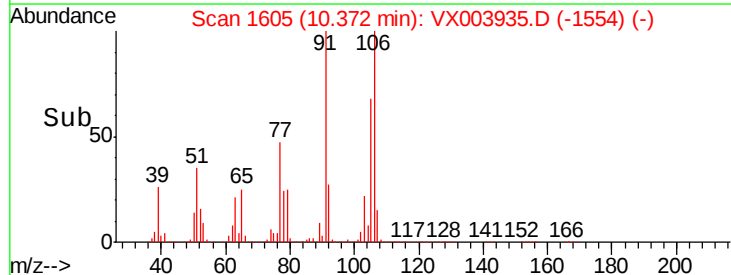
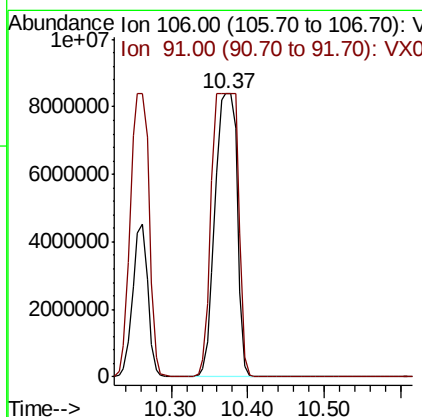
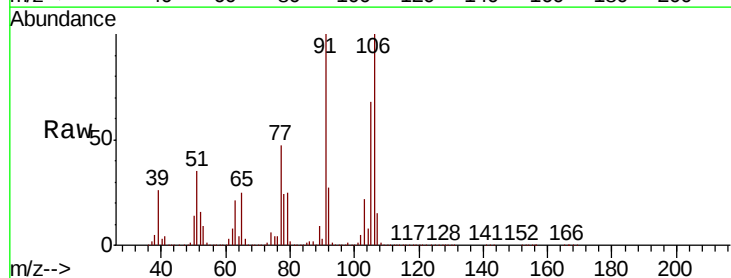
Manual Integrations  
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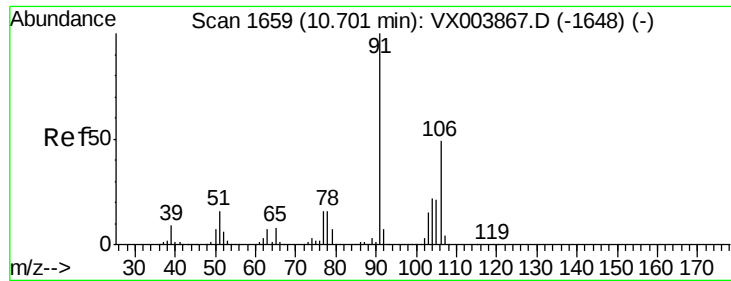
MMDadoda  
8/9/2018 10:40:31 AM



#68  
m/p-Xylenes  
Concen: 2034.30 ug/l  
RT: 10.37 min Scan# 1605  
Delta R.T. 0.01 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

Tgt Ion:106 Resp:16746108  
Ion Ratio Lower Upper  
106 100  
91 0.0 162.3 243.5#





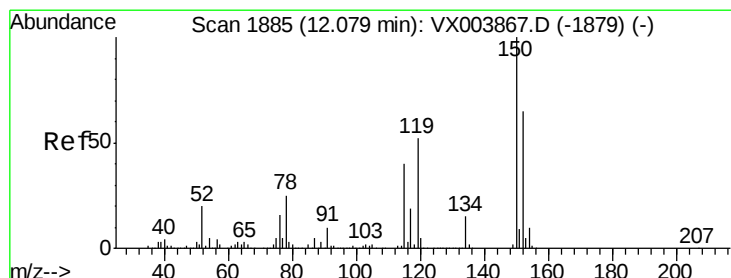
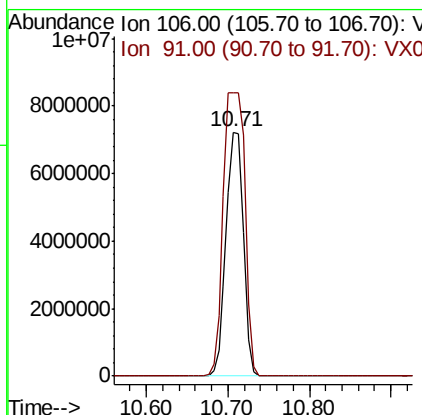
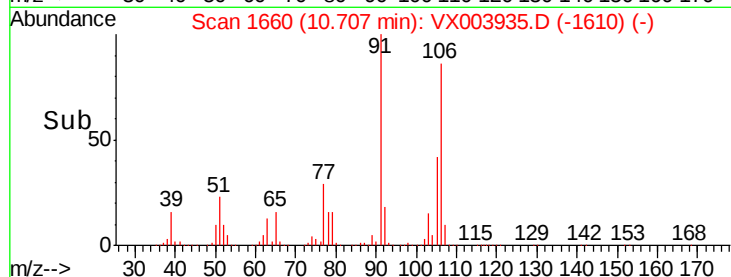
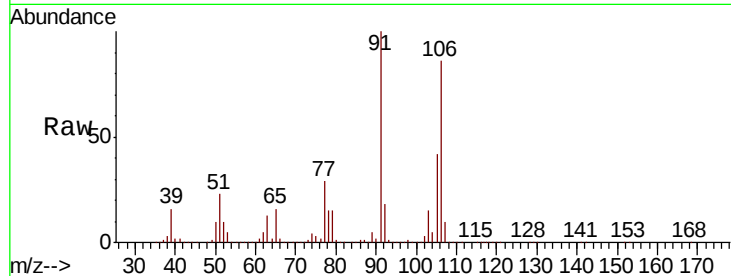
#69  
o-Xylene  
Concen: 1362.13 ug/l  
RT: 10.71 min Scan# 1660  
Delta R.T. 0.01 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0556

Tot Ion:106 Resp:10584847  
Ion Ratio Lower Upper  
106 100  
91 146.2 101.9 305.7

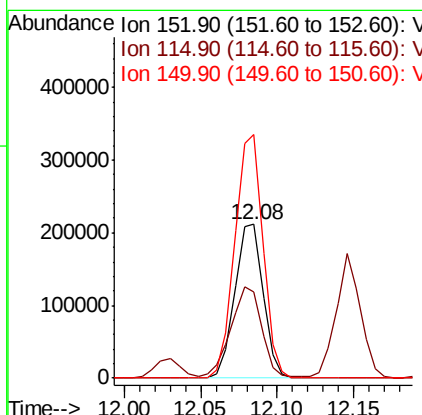
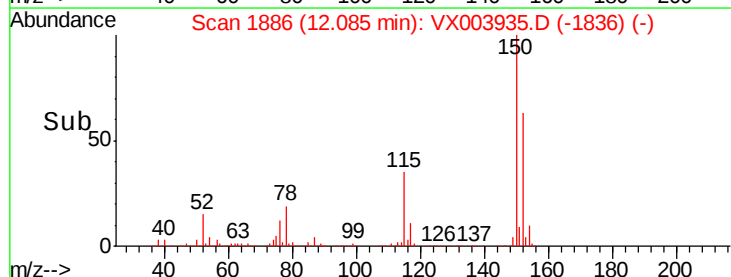
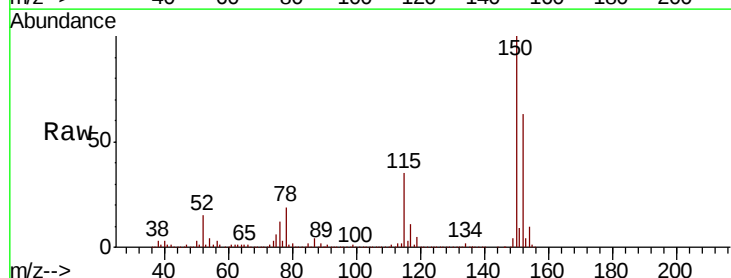
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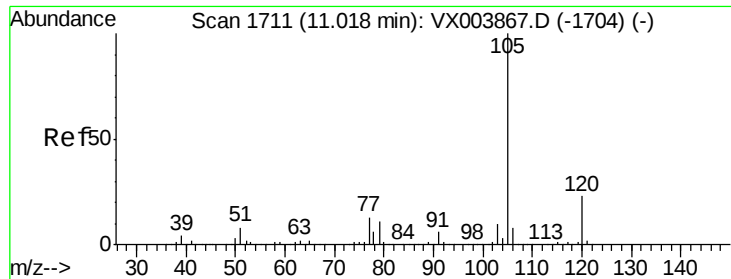
MMDadoda  
8/9/2018 10:40:31 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.08 min Scan# 1886  
Delta R.T. 0.01 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

Tgt Ion:152 Resp: 271984  
Ion Ratio Lower Upper  
152 100  
115 63.6 39.1 117.3  
150 156.5 0.0 349.2





#73

Isopropylbenzene

Concen: 105.65 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VX003935.D

Acq: 08 Aug 2018 20:25

Instrument :

MSVOA\_X

ClientSampleId :

FL-0556

Tot Ion:105 Resp: 2125705

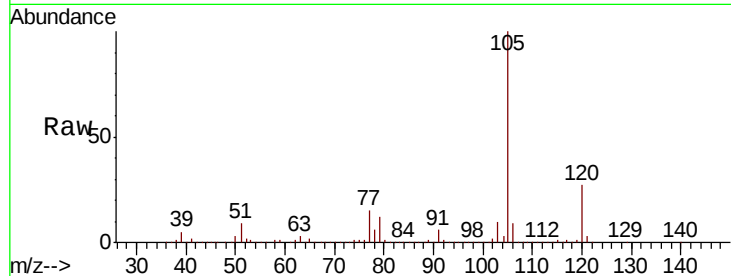
Ion Ratio Lower Upper

105 100

120 27.3 12.6 37.8

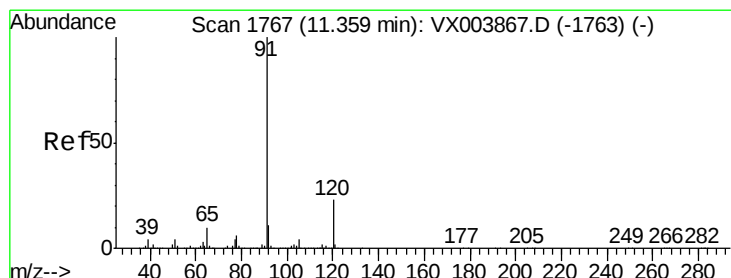
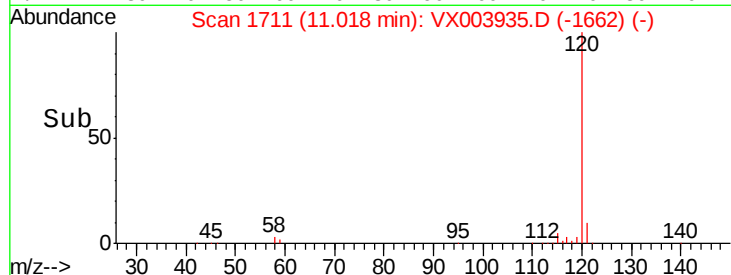
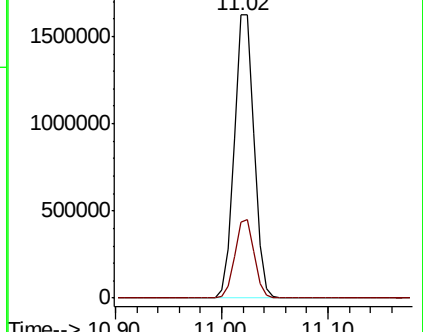
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 139.39 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX003935.D

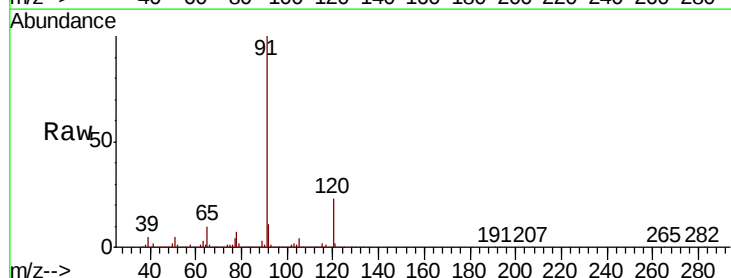
Acq: 08 Aug 2018 20:25

Tgt Ion: 91 Resp: 3149203

Ion Ratio Lower Upper

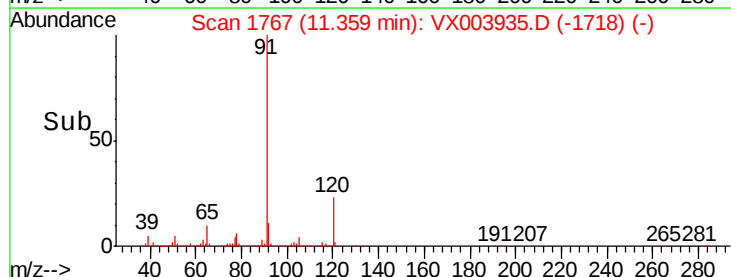
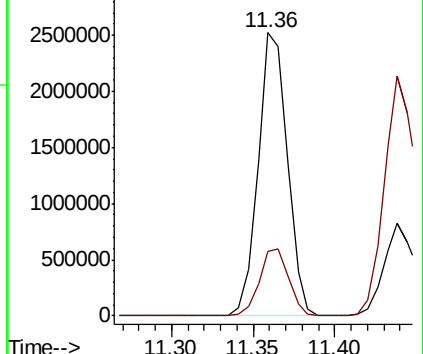
91 100

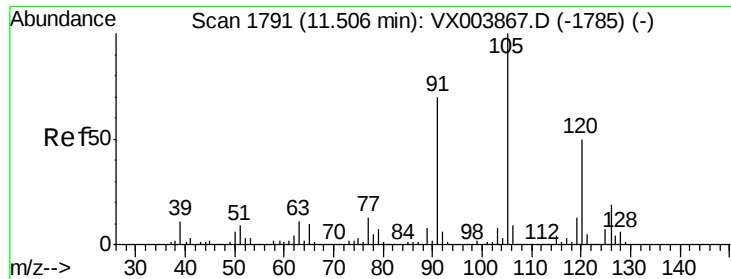
120 23.6 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





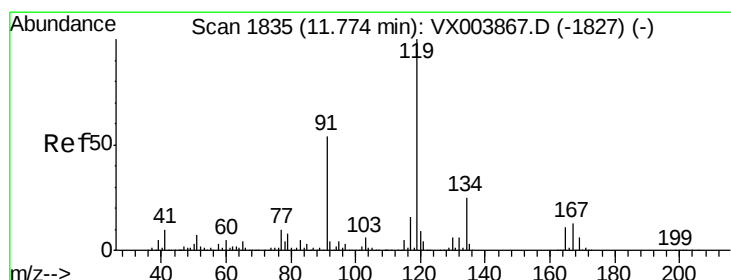
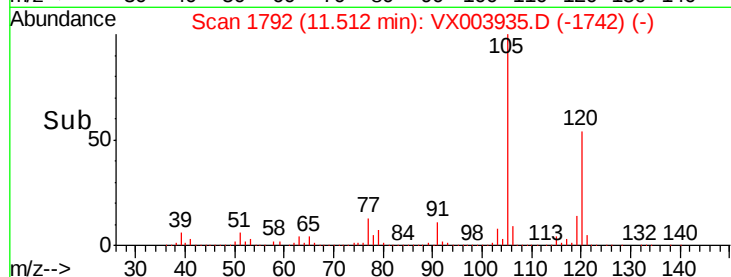
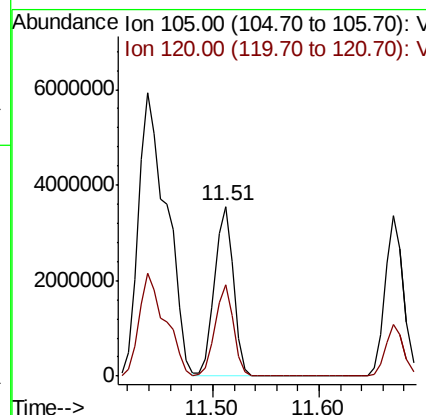
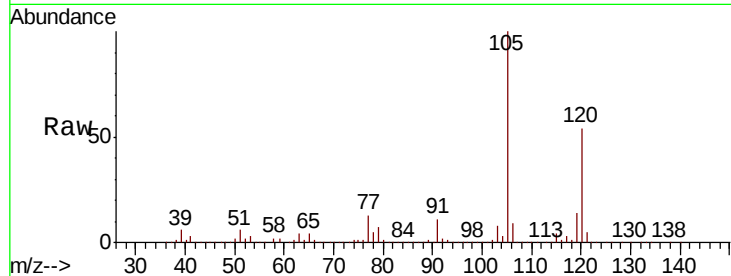
#80  
 1,3,5-Trimethylbenzene  
 Concen: 261.36 ug/l  
 RT: 11.51 min Scan# 1792  
 Delta R.T. 0.01 min  
 Lab File: VX003935.D  
 Acq: 08 Aug 2018 20:25

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0556

Tot Ion:105 Resp: 4287908  
 Ion Ratio Lower Upper  
 105 100  
 120 52.0 25.4 76.2

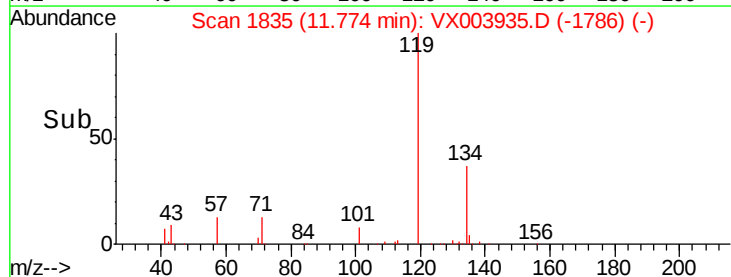
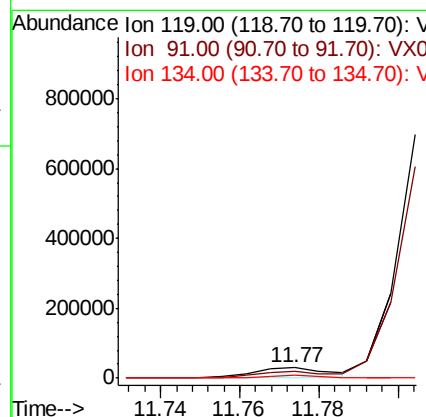
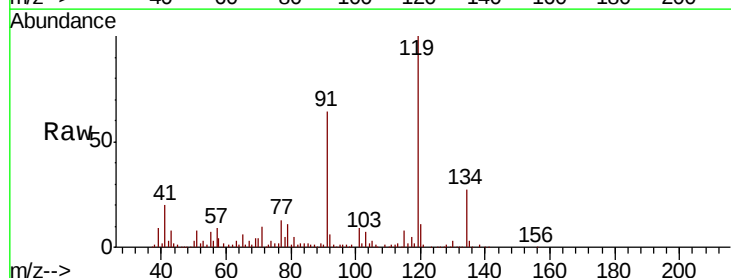
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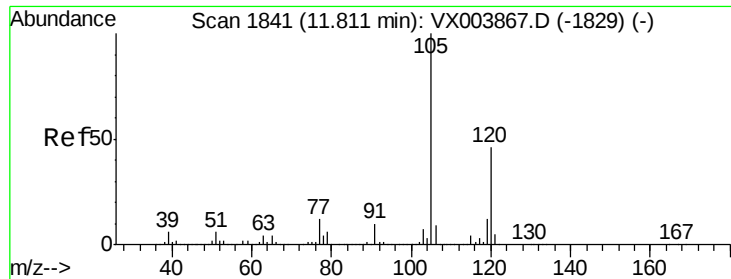
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 8/9/2018 10:40:31 AM



#83  
 tert-Butylbenzene  
 Concen: 2.39 ug/l m  
 RT: 11.77 min Scan# 1835  
 Delta R.T. -0.00 min  
 Lab File: VX003935.D  
 Acq: 08 Aug 2018 20:25

Tgt Ion:119 Resp: 38641  
 Ion Ratio Lower Upper  
 119 100  
 91 3312.1 26.9 80.7#  
 134 0.0 12.0 36.0#





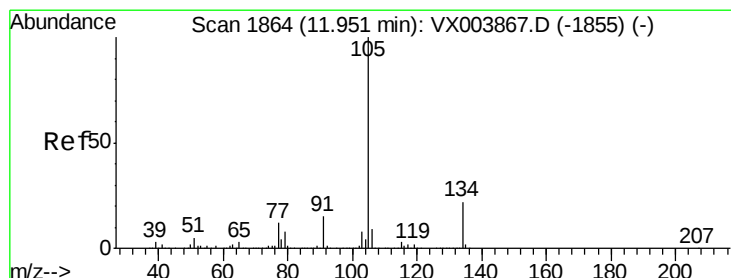
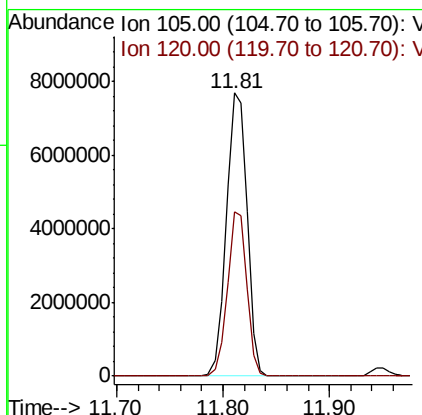
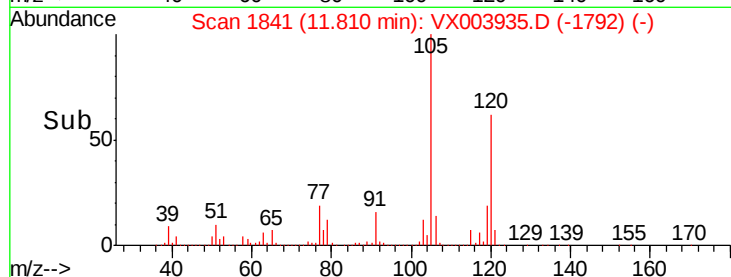
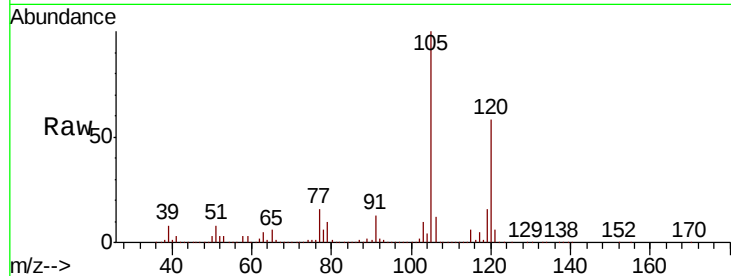
#84  
 1,2,4-Trimethylbenzene  
 Concen: 634.76 ug/l  
 RT: 11.81 min Scan# 1841  
 Delta R.T. -0.00 min  
 Lab File: VX003935.D  
 Acq: 08 Aug 2018 20:25

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0556

Tot Ion:105 Resp:10471398  
 Ion Ratio Lower Upper  
 105 100  
 120 54.2 23.1 69.2

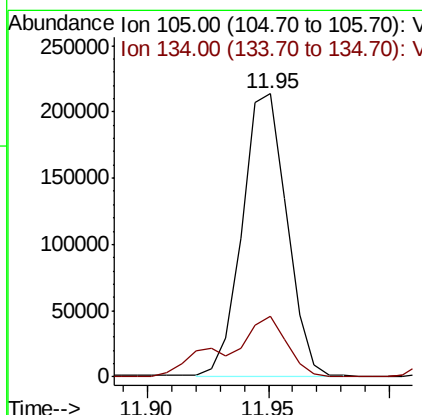
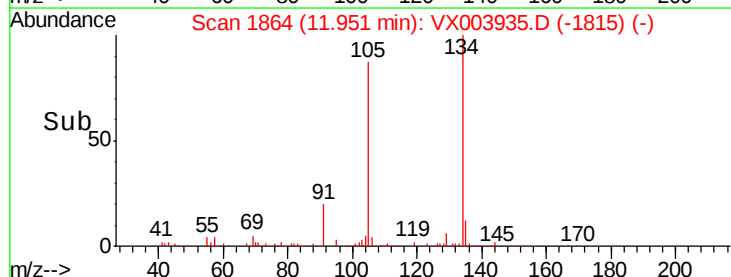
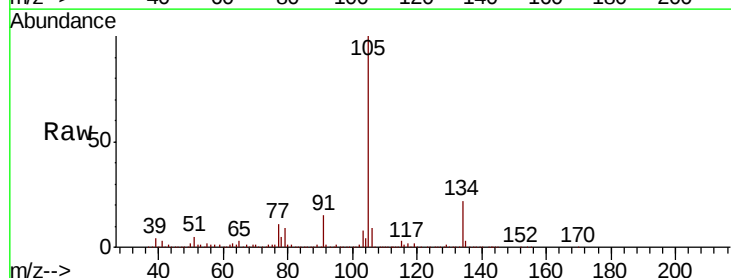
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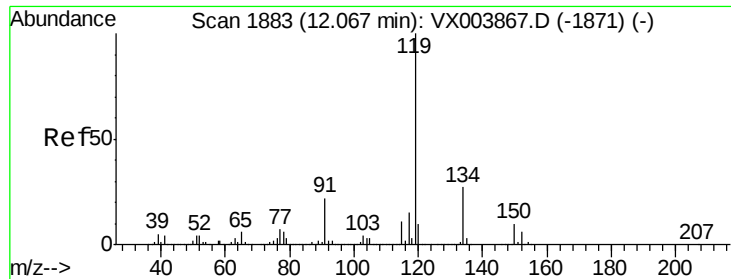
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#85  
 sec-Butylbenzene  
 Concen: 14.50 ug/l m  
 RT: 11.95 min Scan# 1864  
 Delta R.T. -0.00 min  
 Lab File: VX003935.D  
 Acq: 08 Aug 2018 20:25

Tgt Ion:105 Resp: 276134  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.3 30.9#





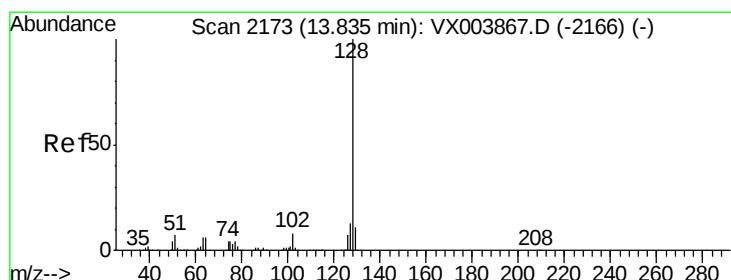
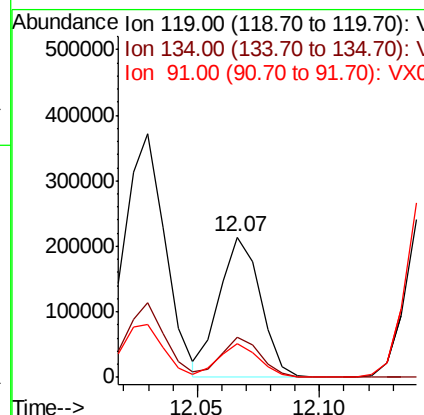
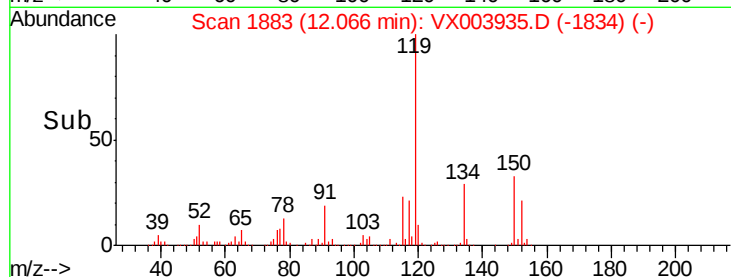
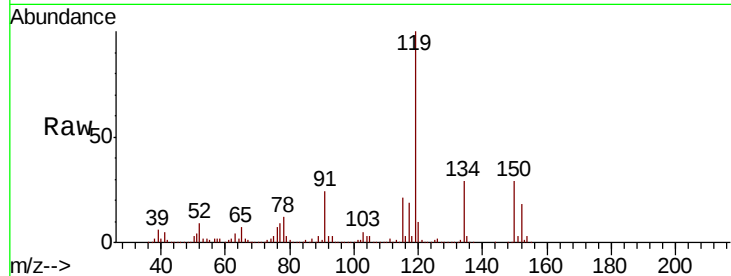
#86  
p-Isopropyltoluene  
Concen: 14.68 ug/l  
RT: 12.07 min Scan# 1883  
Delta R.T. -0.00 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0556

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 250871 |       |       |
| 134     | 27.6  |        | 13.3  | 39.8  |
| 91      | 23.1  |        | 10.9  | 32.7  |

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#95  
Naphthalene  
Concen: 239.52 ug/l  
RT: 13.84 min Scan# 2174  
Delta R.T. 0.01 min  
Lab File: VX003935.D  
Acq: 08 Aug 2018 20:25

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 128     | 100   | 4852305 |       |       |
| 127     | 13.1  |         | 10.2  | 15.2  |
| 129     | 11.4  |         | 8.8   | 13.2  |

