

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091118\  
 Data File : VN051121.D  
 Acq On : 11 Sep 2018 12:44  
 Operator : MD\SY  
 Sample : J4849-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-E

Manual Integrations  
 APPROVED

MMDadoda  
 9/12/2018 10:07:00 AM

Quant Time: Sep 12 02:23:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response  | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|-----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 666045    | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 1011137   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 890528    | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 389355    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |           |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 377767    | 50.97  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery  | =      | 101.94% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 373566    | 49.17  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery  | =      | 98.34%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1399209   | 48.53  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery  | =      | 97.06%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 453925    | 47.60  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery  | =      | 95.20%  |          |
| Target Compounds            |       |      |           |        |         |          |
|                             |       |      |           |        |         | Qvalue   |
| 3) Chloromethane            | 2.06  | 50   | 13682     | 1.12   | ug/l    | 99       |
| 16) Acetone                 | 3.82  | 43   | 12848     | 1.20   | ug/l    | 96       |
| 17) Carbon Disulfide        | 4.05  | 76   | 13583     | 0.76   | ug/l    | 98       |
| 25) 2-Butanone              | 6.85  | 43   | 11769     | 4.04   | ug/l    | 98       |
| 27) cis-1,2-Dichloroethene  | 6.83  | 96   | 3529      | 0.42   | ug/l    | 78       |
| 44) Trichloroethene         | 8.84  | 130  | 3981      | 0.44   | ug/l    | 89       |
| 64) Tetrachloroethene       | 10.63 | 164  | 5231      | 0.64   | ug/l    | 94       |
| 67) Ethyl Benzene           | 11.51 | 91   | 171440    | 4.72   | ug/l    | 99       |
| 68) m/p-Xylenes             | 11.63 | 106  | 6304      | 0.45   | ug/l    | 95       |
| 69) o-Xylene                | 11.95 | 106  | 100459    | 7.43   | ug/l    | 94       |
| 73) Isopropylbenzene        | 12.25 | 105  | 1972363   | 60.40  | ug/l    | 100      |
| 78) n-propylbenzene         | 12.59 | 91   | 4987628   | 138.97 | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.73 | 105  | 1246488   | 47.22  | ug/l    | 100      |
| 83) tert-Butylbenzene       | 12.99 | 119  | 342372    | 14.69  | ug/l    | 96       |
| 84) 1,2,4-Trimethylbenzene  | 13.03 | 105  | 18992857m | 731.71 | ug/l    |          |
| 85) sec-Butylbenzene        | 13.17 | 105  | 1636257   | 54.74  | ug/l    | 81       |
| 86) p-Isopropyltoluene      | 13.29 | 119  | 696478    | 27.48  | ug/l    | 100      |
| 89) n-Butylbenzene          | 13.61 | 91   | 977019    | 49.53  | ug/l #  | 74       |
| 95) Naphthalene             | 15.13 | 128  | 149114    | 14.44  | ug/l    | 98       |

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

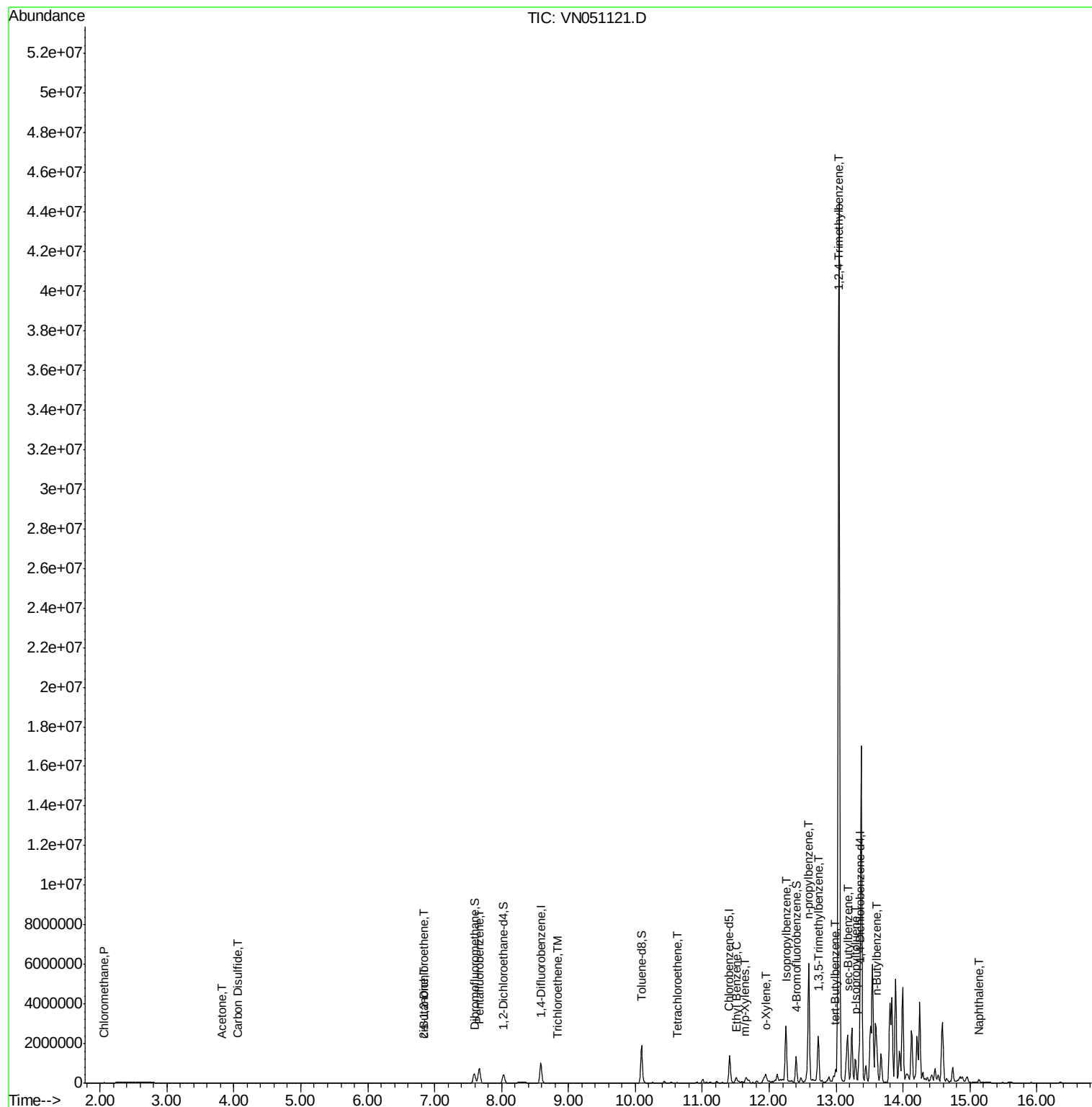
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091118\  
Data File : VN051121.D  
Acq On : 11 Sep 2018 12:44  
Operator : MD\SY  
Sample : J4849-07  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 13 Sample Multiplier: 1

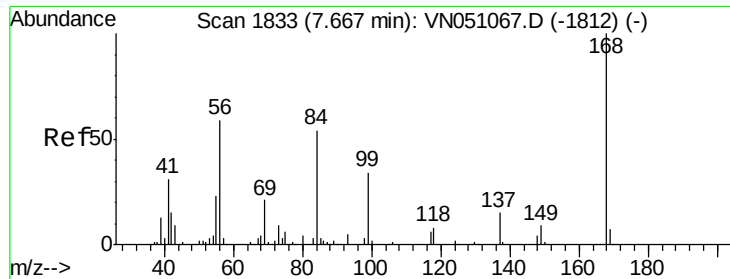
Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-E

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9/12/2018 10:07:00 AM

Quant Time: Sep 12 02:23:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051121.D

Acq: 11 Sep 2018 12:44

Instrument :

MSVOA\_N

ClientSampled :

EP1-MW-E

Tot Ion:168 Resp: 666045

Ion Ratio Lower Upper

168 100

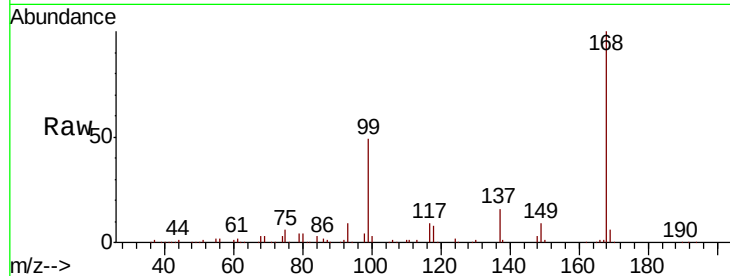
99 48.8 38.3 57.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN051121.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051121.D (-1740) (-)

7.67

300000

250000

200000

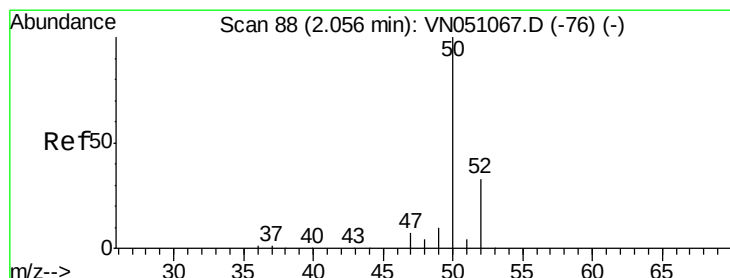
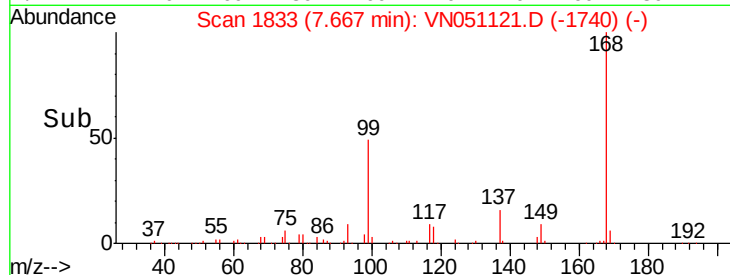
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.12 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051121.D

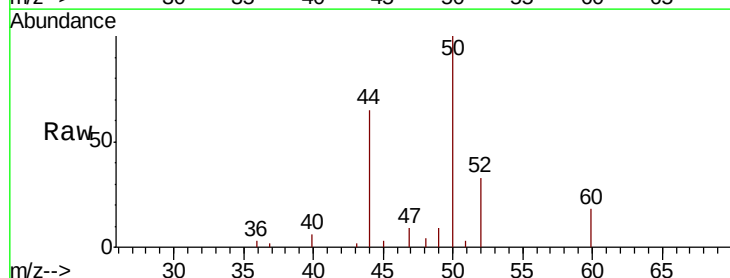
Acq: 11 Sep 2018 12:44

Tgt Ion: 50 Resp: 13682

Ion Ratio Lower Upper

50 100

52 33.2 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN051121.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN051121.D (-1) (-)

2.06

12000

10000

8000

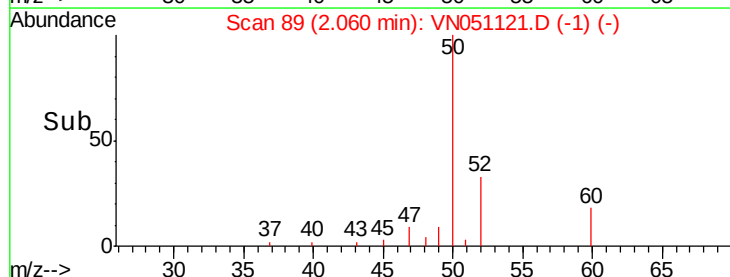
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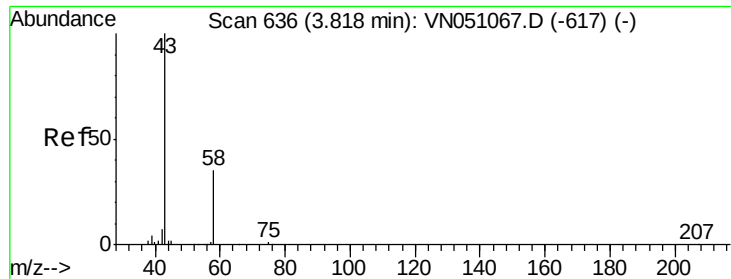
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2000

0

Time-->





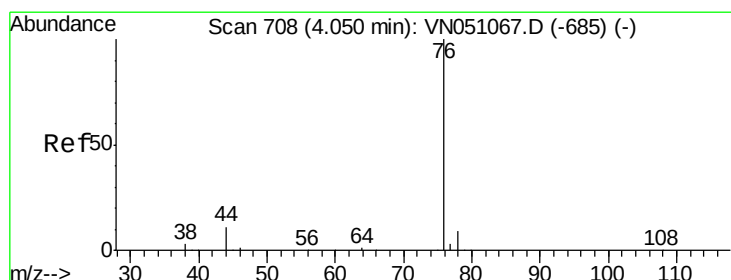
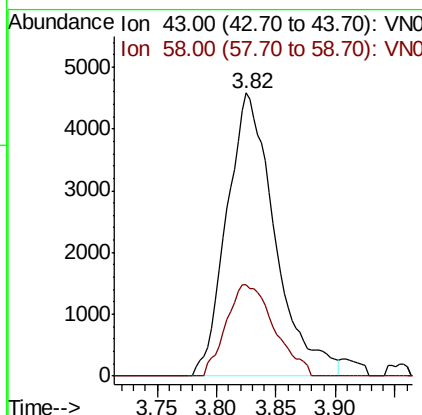
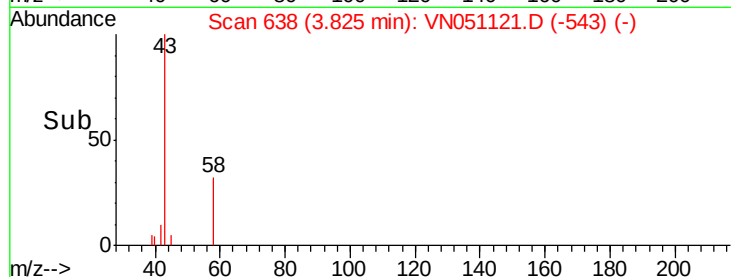
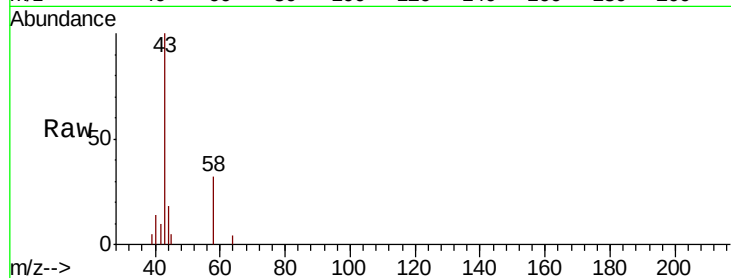
#16  
Acetone  
Concen: 1.20 ug/l  
RT: 3.82 min Scan# 638  
Delta R.T. 0.01 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampled :  
EP1-MW-E

Tot Ion: 43 Resp: 12848  
Ion Ratio Lower Upper  
43 100  
58 32.1 27.8 41.6

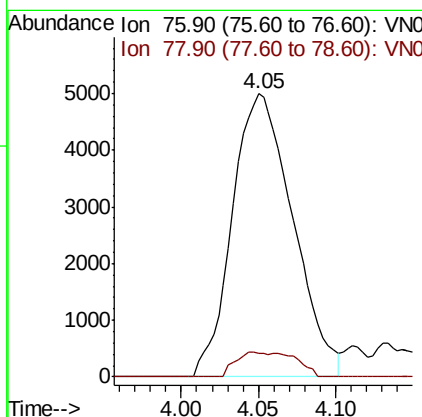
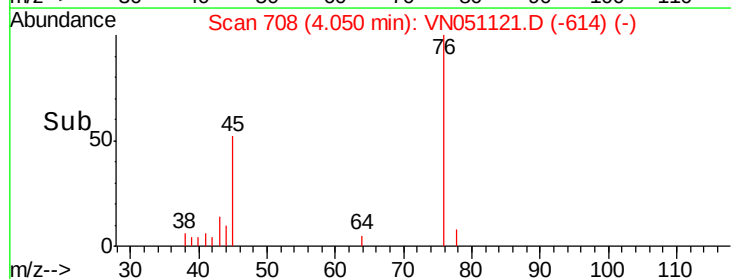
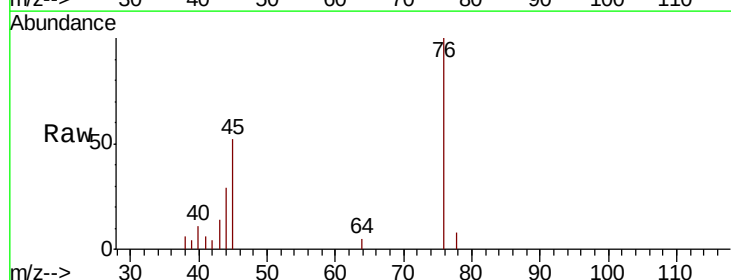
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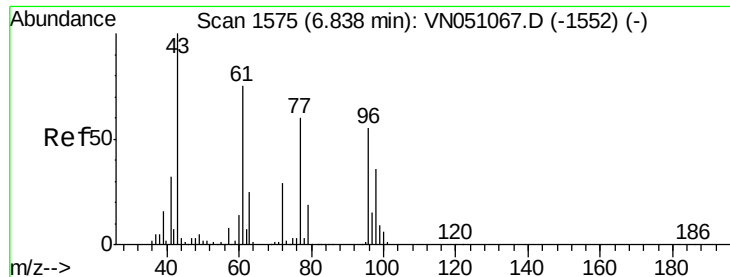
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#17  
Carbon Disulfide  
Concen: 0.76 ug/l  
RT: 4.05 min Scan# 708  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Tgt Ion: 76 Resp: 13583  
Ion Ratio Lower Upper  
76 100  
78 8.2 7.0 10.6





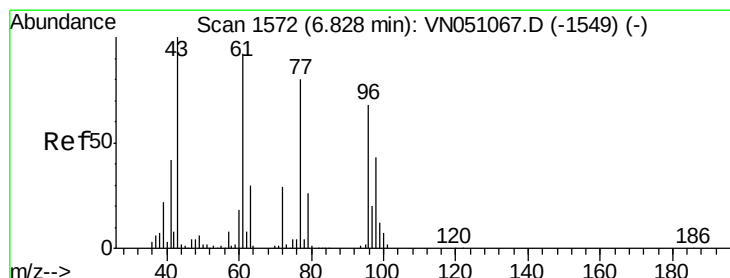
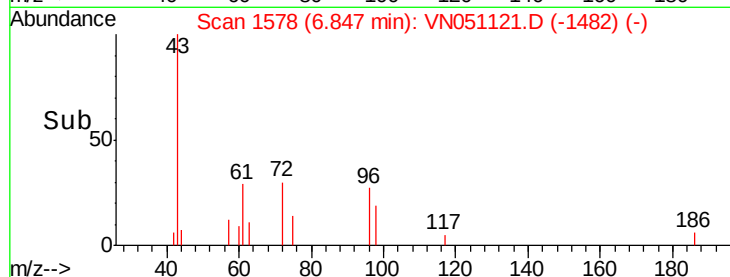
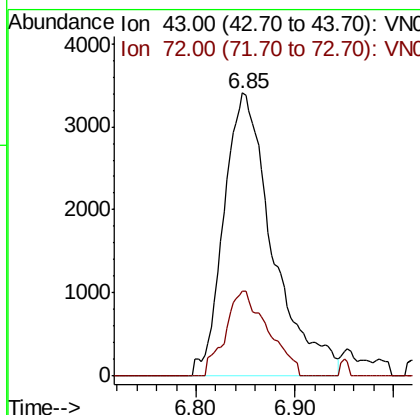
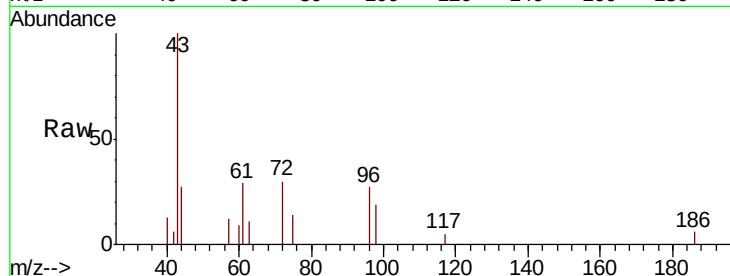
#25  
2-Butanone  
Concen: 4.04 ug/l  
RT: 6.85 min Scan# 1578  
Delta R.T. 0.01 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-E

| Tot Ion   | 43   | Resp  | 11769 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 43        | 100  |       |       |
| 72        | 30.0 | 23.0  | 34.6  |

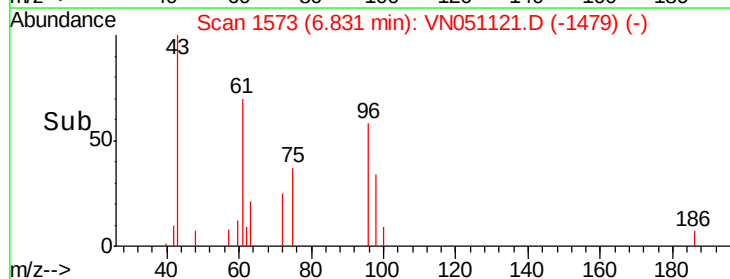
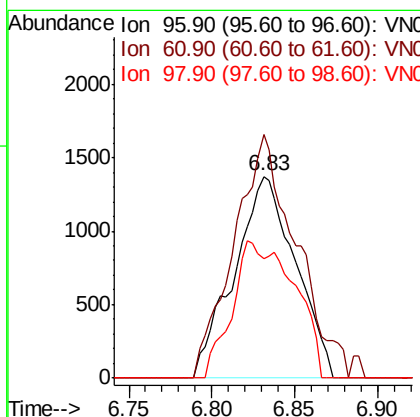
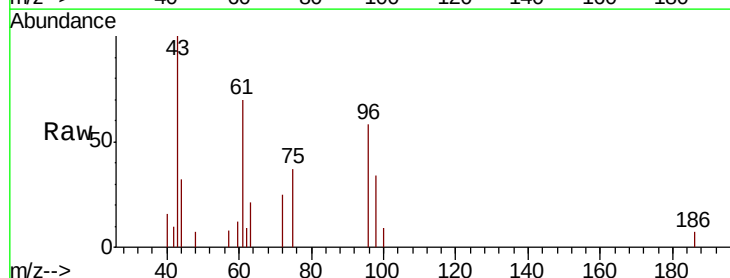
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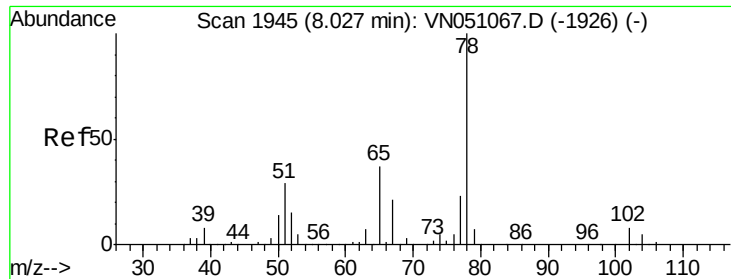
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#27  
cis-1,2-Dichloroethene  
Concen: 0.42 ug/l  
RT: 6.83 min Scan# 1573  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

| Tgt Ion   | 96    | Resp  | 3529  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 96        | 100   |       |       |
| 61        | 122.3 | 0.0   | 278.2 |
| 98        | 34.5  | 0.0   | 129.4 |





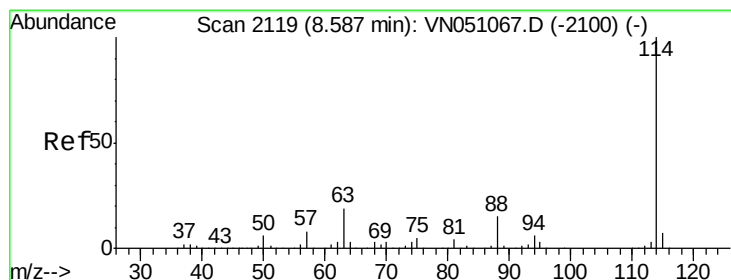
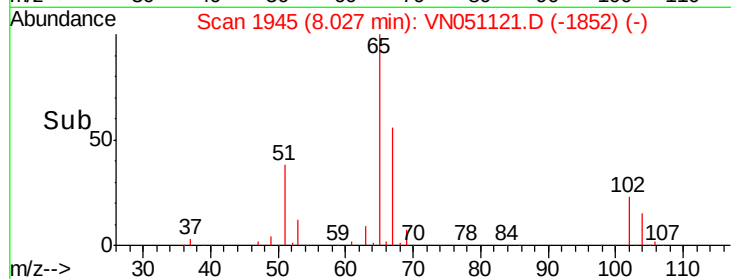
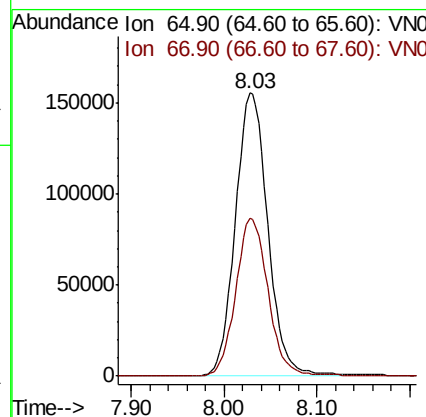
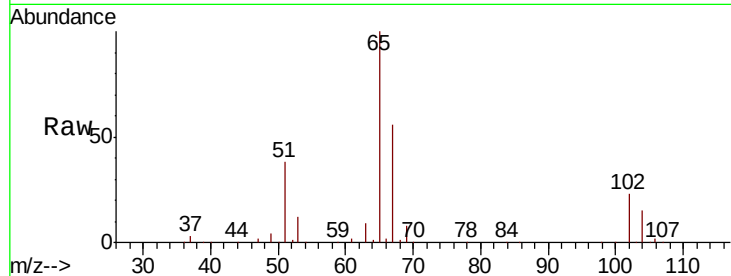
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.97 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN051121.D  
 Acq: 11 Sep 2018 12:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EP1-MW-E

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 377767 |       |       |
| 67      | 55.4  | 0.0    | 112.0 |       |

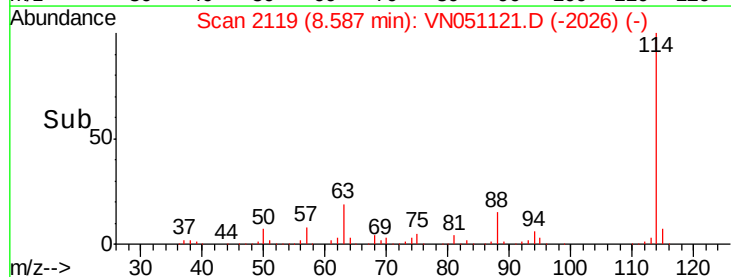
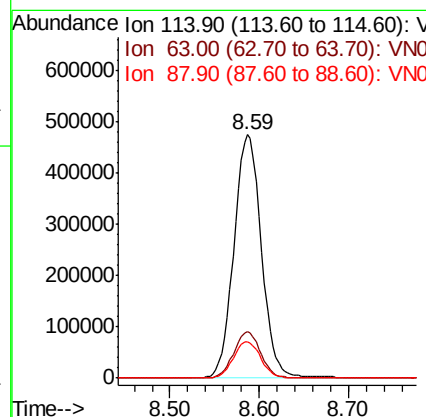
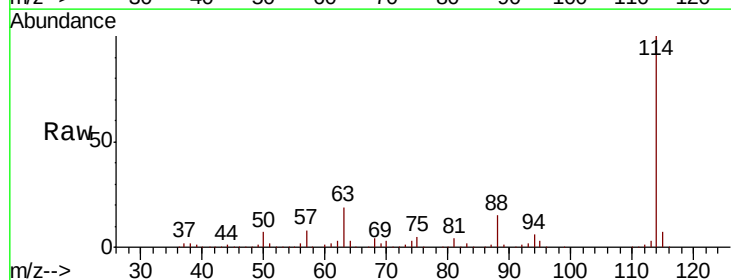
Manual Integrations  
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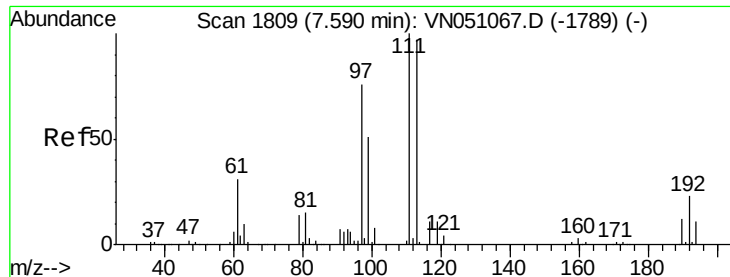
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#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN051121.D  
 Acq: 11 Sep 2018 12:44

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 114     | 100   | 1011137 |       |       |
| 63      | 19.2  | 0.0     | 37.8  |       |
| 88      | 15.0  | 0.0     | 30.8  |       |





#35

Dibromofluoromethane

Concen: 49.17 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051121.D

Acq: 11 Sep 2018 12:44

Instrument :

MSVOA\_N

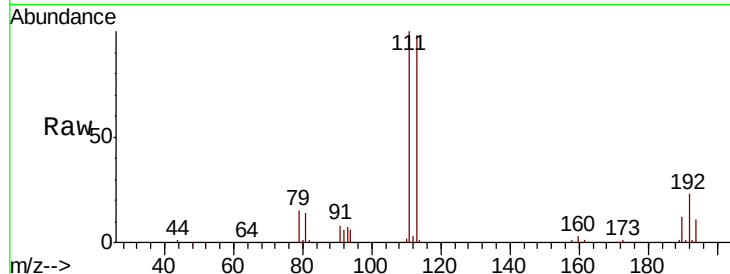
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EP1-MW-E

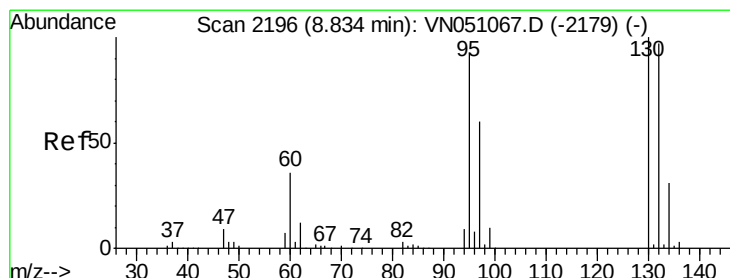
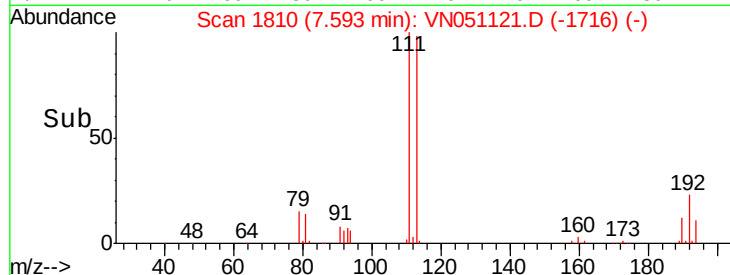
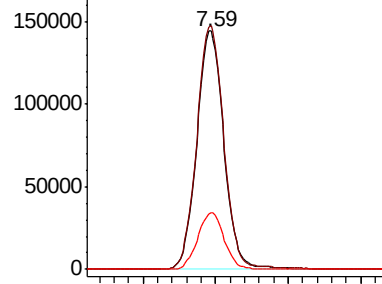
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 113   | Resp: | 373566 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.1 | 83.0  | 124.6  |
| 192      | 23.5  | 18.7  | 28.1   |

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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



#44

Trichloroethene

Concen: 0.44 ug/l

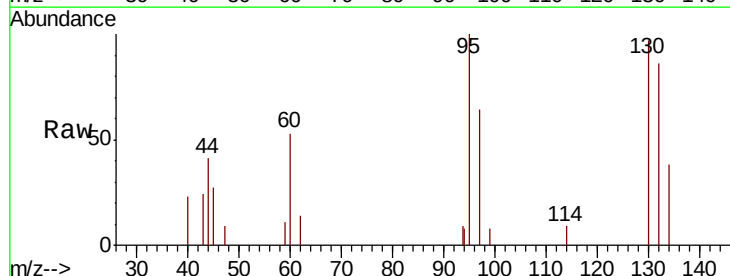
RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

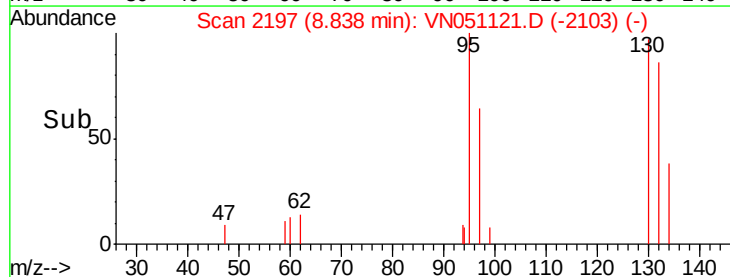
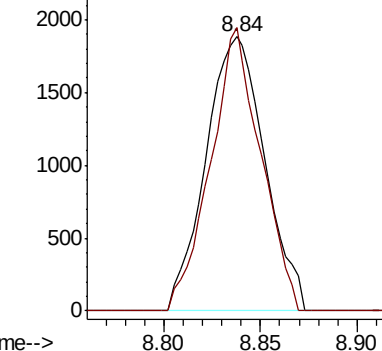
Lab File: VN051121.D

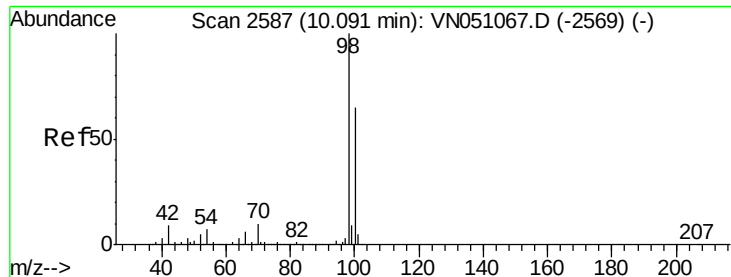
Acq: 11 Sep 2018 12:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 3981  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 103.2 | 0.0   | 186.2 |



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): V





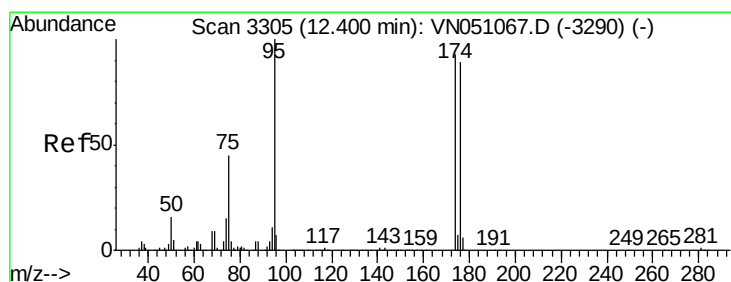
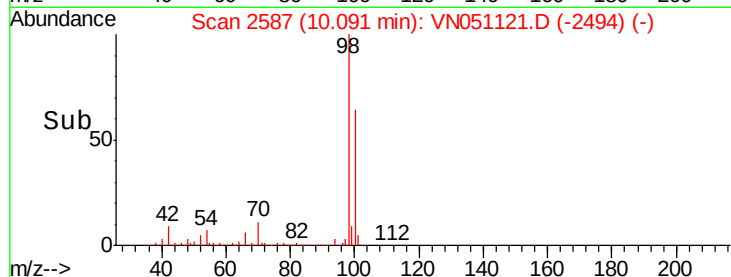
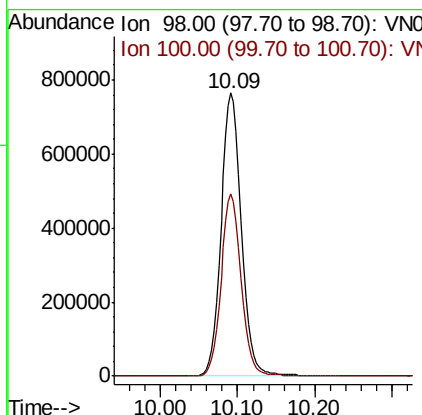
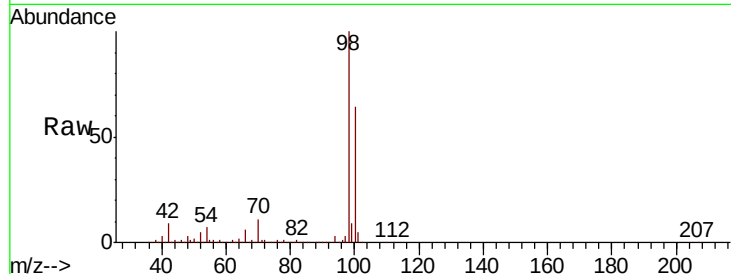
#50  
Toluene-d8  
Concen: 48.53 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampled :  
EP1-MW-E

Tot Ion: 98 Resp: 1399209  
Ion Ratio Lower Upper  
98 100  
100 63.6 52.0 78.0

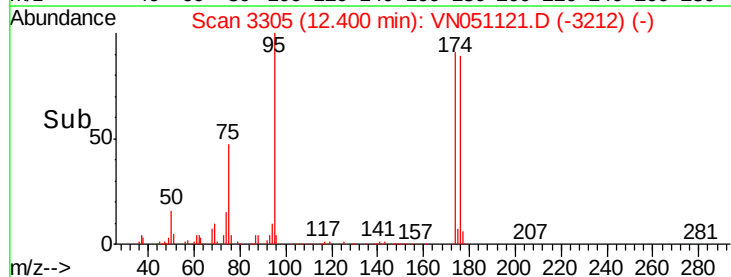
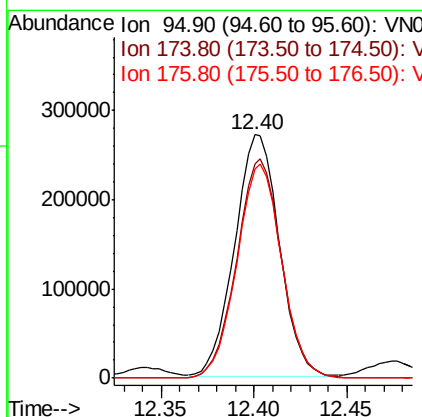
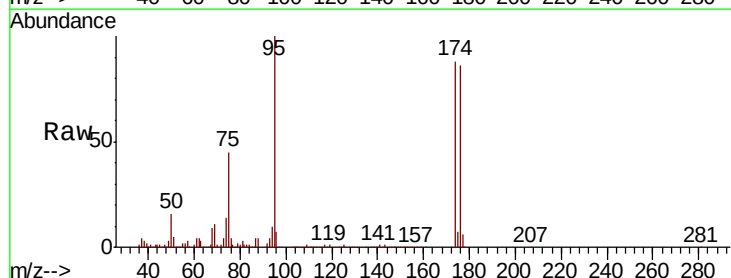
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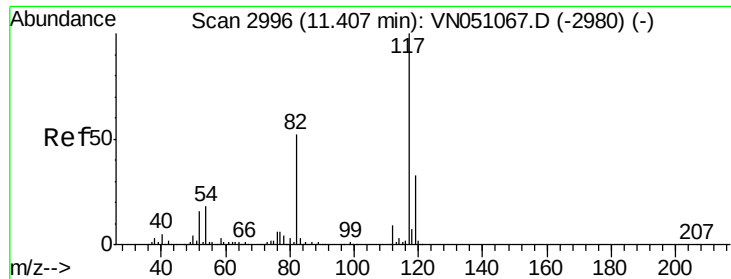


#62  
4-Bromofluorobenzene  
Concen: 47.60 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Tgt Ion: 95 Resp: 453925  
Ion Ratio Lower Upper  
95 100  
174 91.0 0.0 184.8  
176 89.1 0.0 178.6







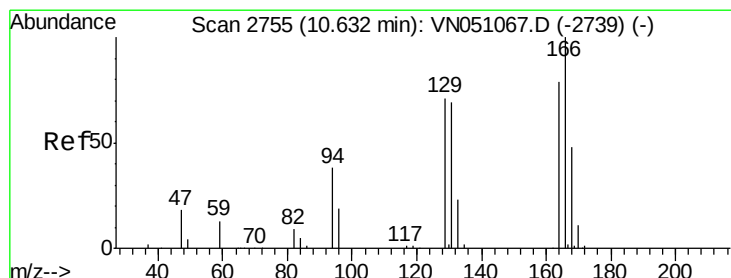
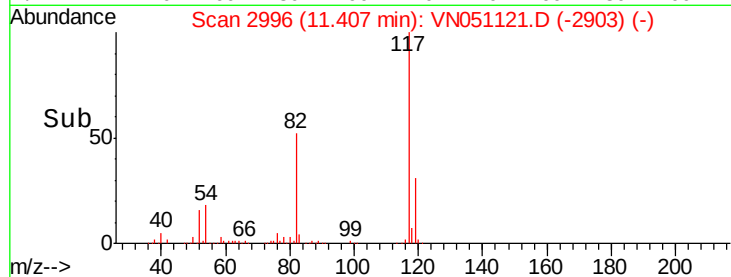
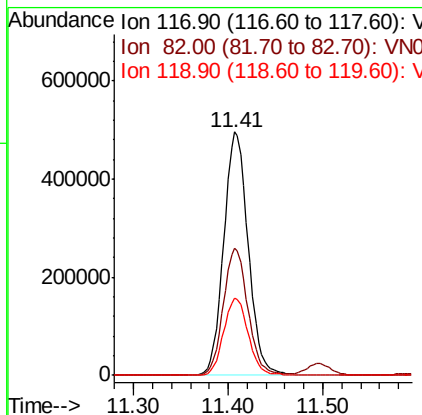
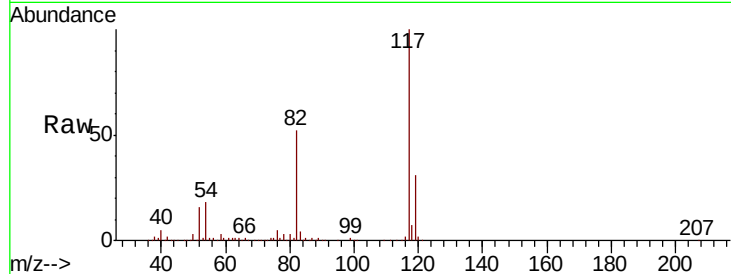
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-E

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 890528 |       |       |
| 82      | 52.0  |        | 41.8  | 62.6  |
| 119     | 31.5  |        | 26.2  | 39.2  |

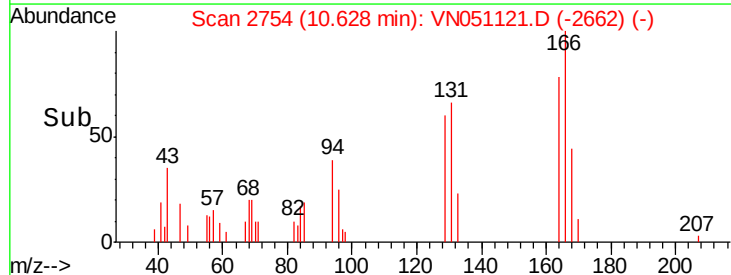
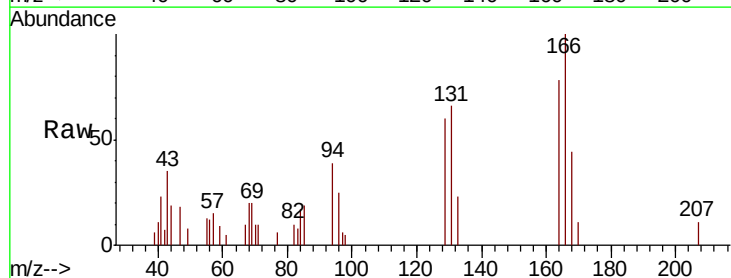
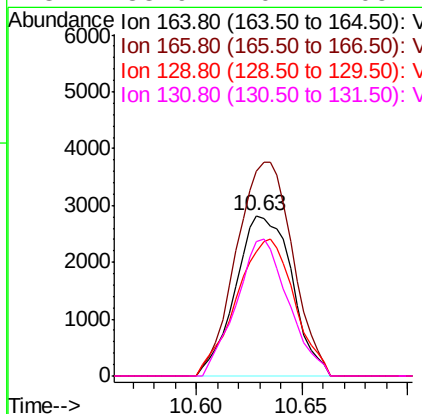
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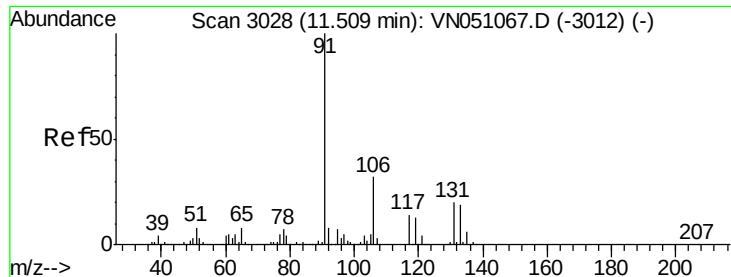
MMDadoda  
9/12/2018 10:07:00 AM



#64  
Tetrachloroethene  
Concen: 0.64 ug/l  
RT: 10.63 min Scan# 2754  
Delta R.T. -0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   | 5231 |       |       |
| 166     | 127.9 |      | 101.3 | 151.9 |
| 129     | 77.3  |      | 72.2  | 108.2 |
| 131     | 83.9  |      | 70.2  | 105.2 |





#67

Ethyl Benzene

Concen: 4.72 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051121.D

Acq: 11 Sep 2018 12:44

Instrument :

MSVOA\_N

ClientSampled :

EP1-MW-E

Tot Ion: 91 Resp: 171440

Ion Ratio Lower Upper

91 100

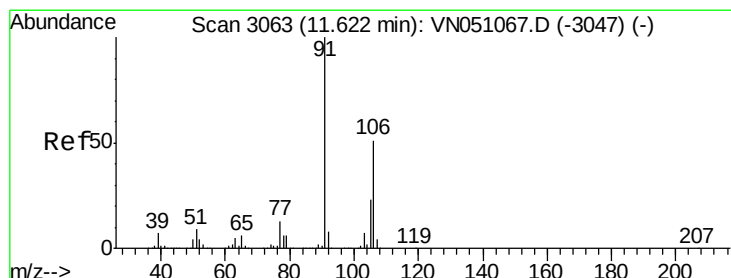
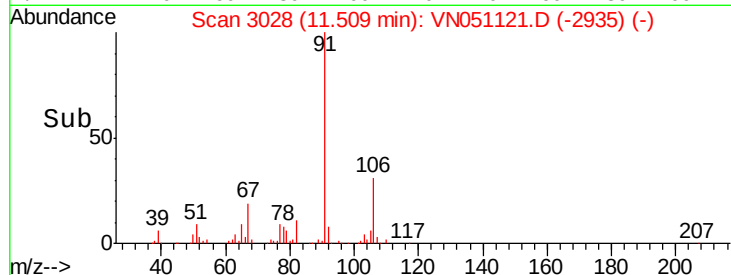
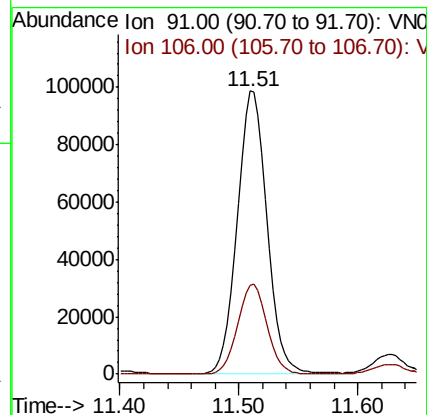
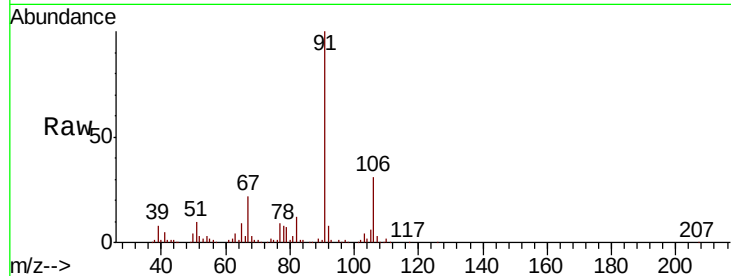
106 31.3 25.4 38.2

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#68

m/p-Xylenes

Concen: 0.45 ug/l

RT: 11.63 min Scan# 3065

Delta R.T. 0.01 min

Lab File: VN051121.D

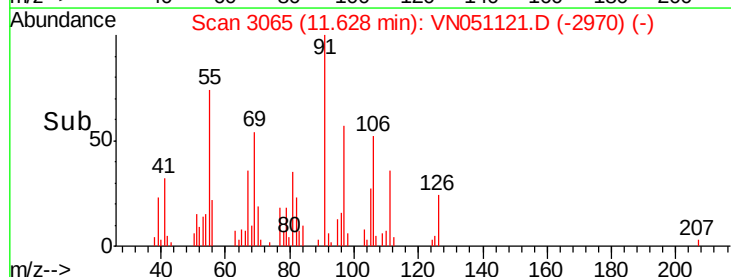
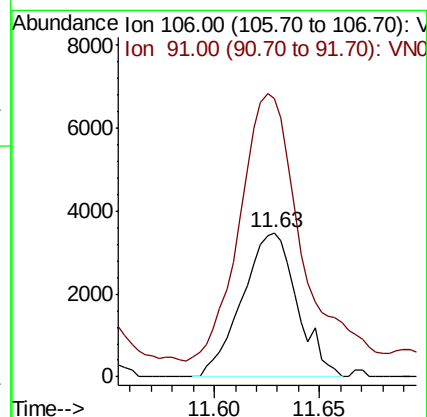
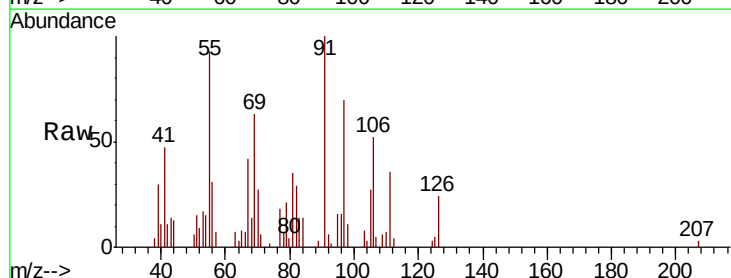
Acq: 11 Sep 2018 12:44

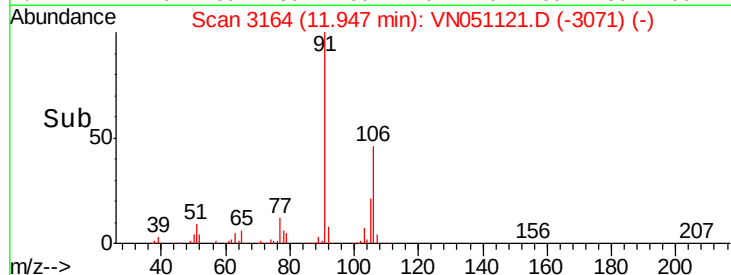
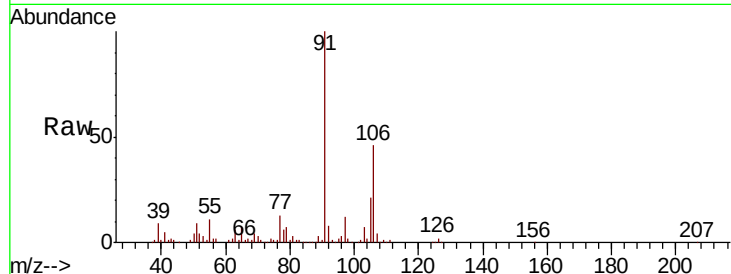
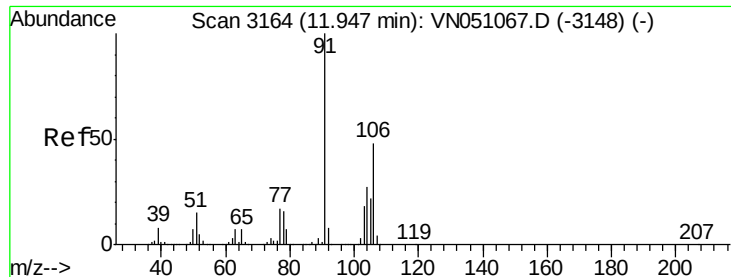
Tgt Ion: 106 Resp: 6304

Ion Ratio Lower Upper

106 100

91 206.6 159.8 239.6





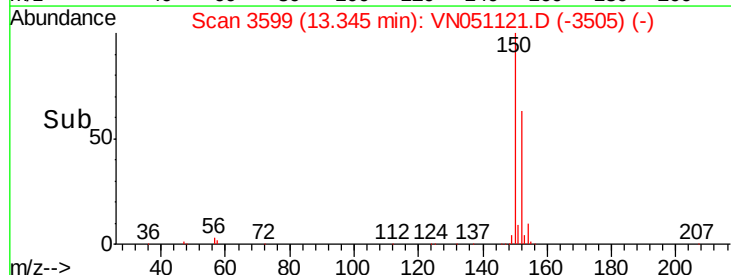
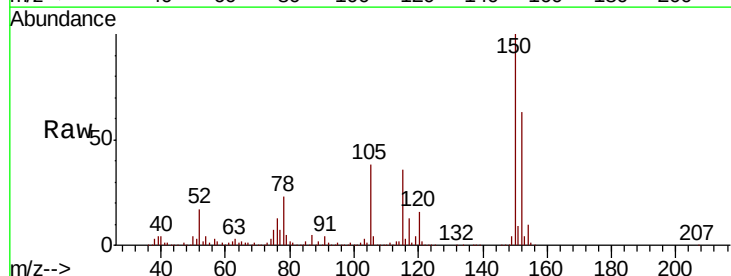
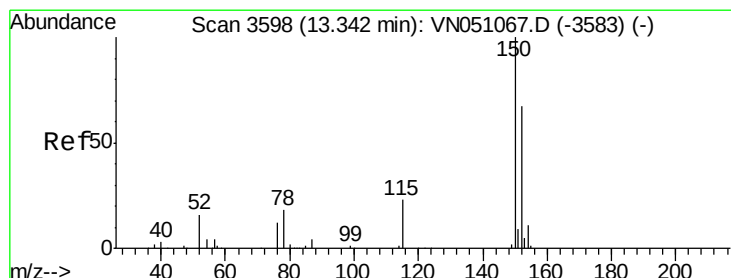
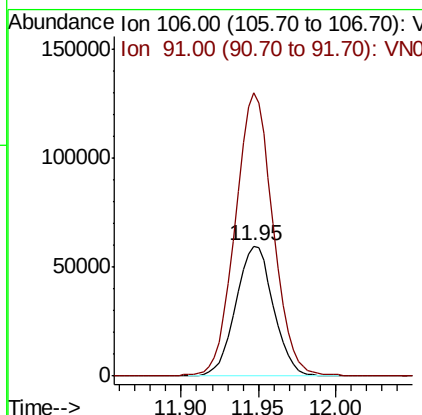
#69  
o-Xylene  
Concen: 7.43 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 106     | 100   | 100459 |       |       |
| 91      | 220.2 | 105.1  | 315.1 |       |

Instrument :  
MSVOA\_N  
ClientSampled :  
EP1-MW-E

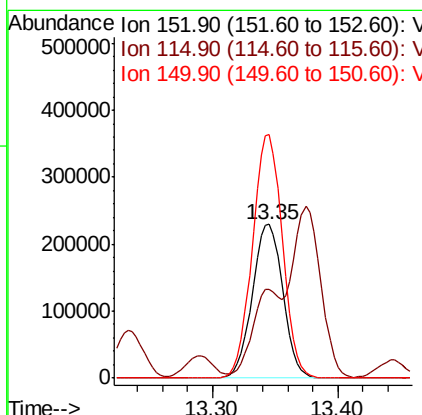
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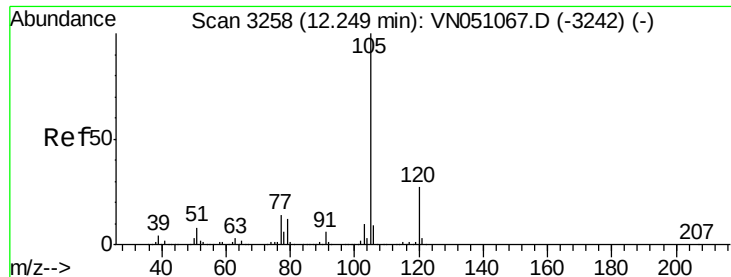
MMDadoda  
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 389355 |       |       |
| 115     | 52.0  | 28.2   | 84.7  |       |
| 150     | 155.8 | 0.0    | 349.0 |       |





#73

Isopropylbenzene

Concen: 60.40 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051121.D

Acq: 11 Sep 2018 12:44

Instrument :

MSVOA\_N

ClientSampled :

EP1-MW-E

Tot Ion:105 Resp: 1972363

Ion Ratio Lower Upper

105 100

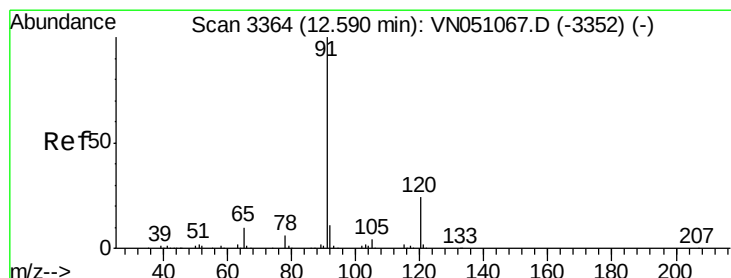
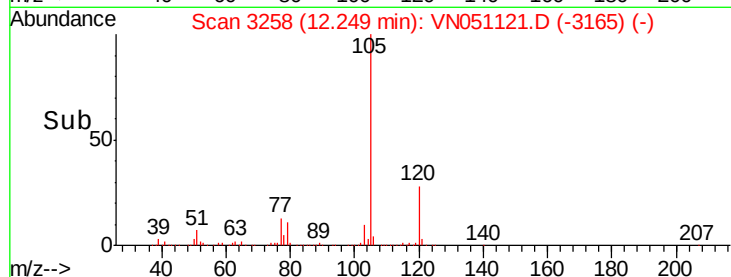
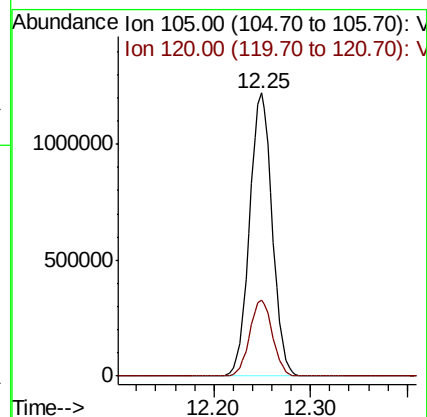
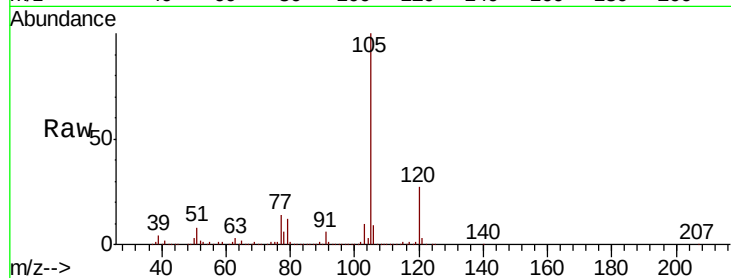
120 27.2 13.6 40.7

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#78

n-propylbenzene

Concen: 138.97 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN051121.D

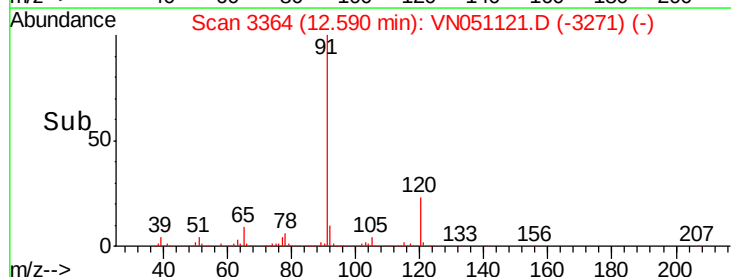
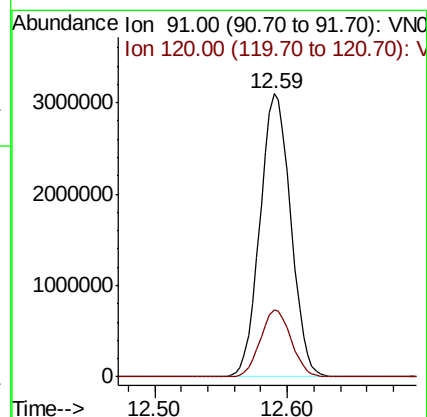
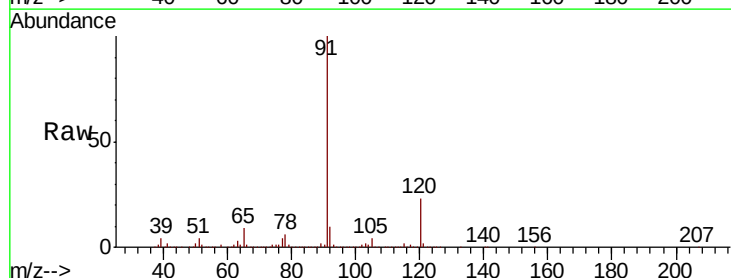
Acq: 11 Sep 2018 12:44

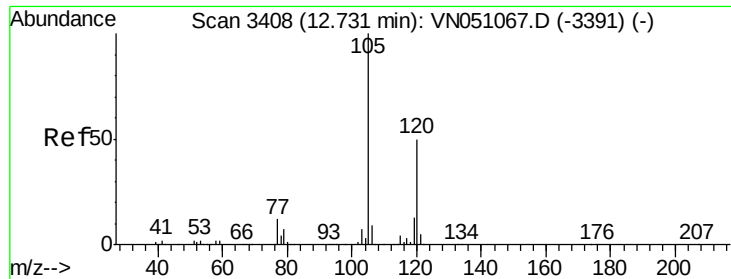
Tgt Ion: 91 Resp: 4987628

Ion Ratio Lower Upper

91 100

120 23.6 12.0 36.0





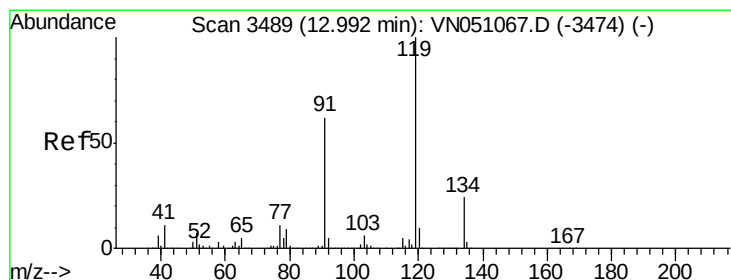
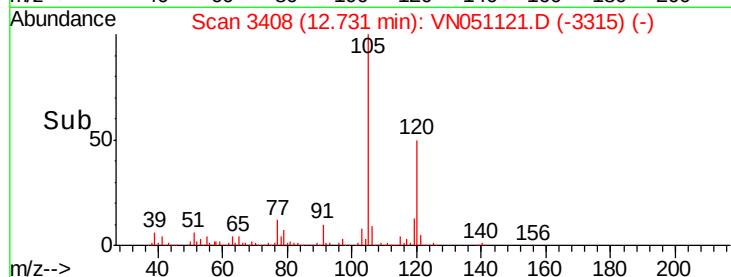
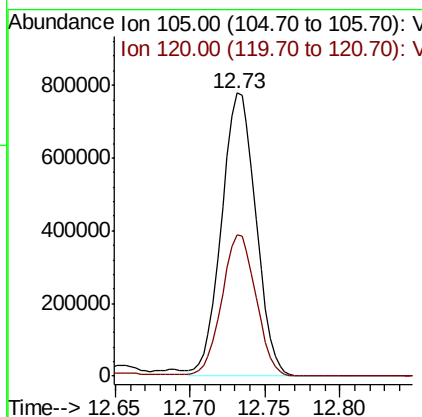
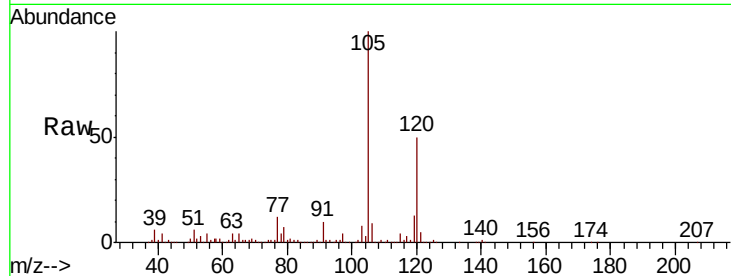
#80  
1,3,5-Trimethylbenzene  
Concen: 47.22 ug/l  
RT: 12.73 min Scan# 3408  
Delta R.T. -0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampled :  
EP1-MW-E

Tot Ion:105 Resp: 1246488  
Ion Ratio Lower Upper  
105 100  
120 49.6 24.9 74.6

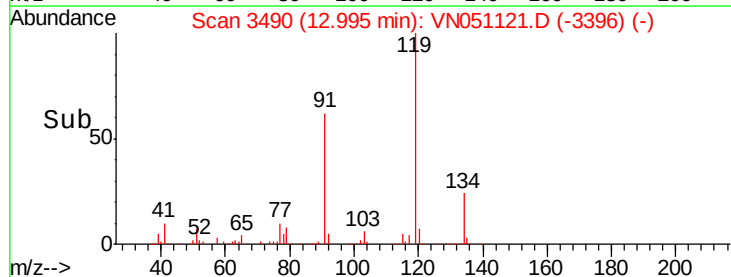
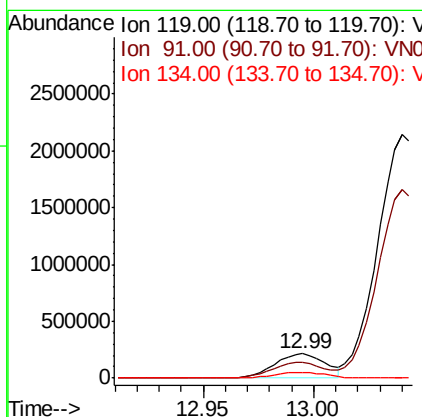
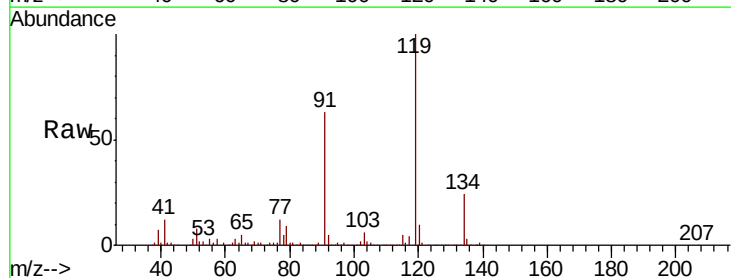
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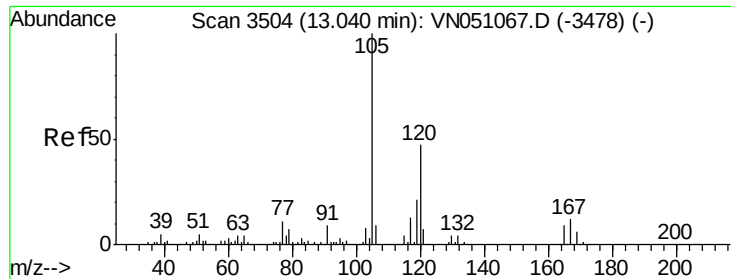
MMDadoda  
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#83  
tert-Butylbenzene  
Concen: 14.69 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Tgt Ion:119 Resp: 342372  
Ion Ratio Lower Upper  
119 100  
91 65.3 30.8 92.3  
134 24.7 13.2 39.6





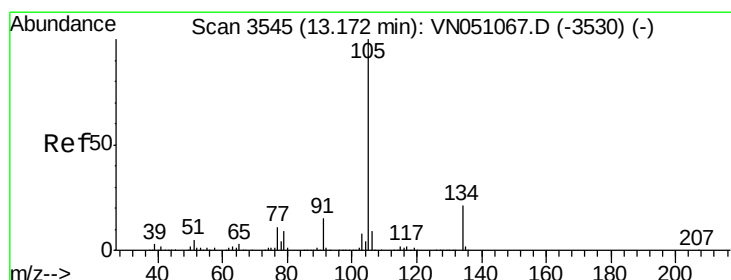
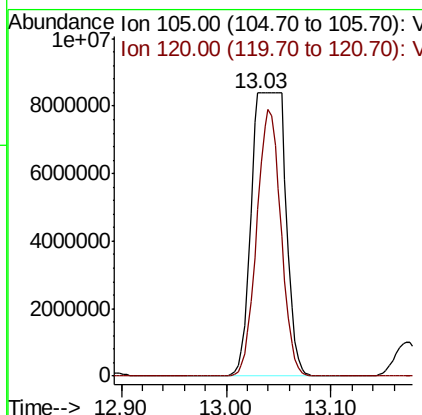
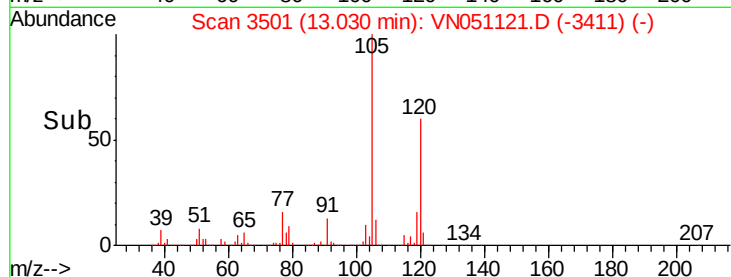
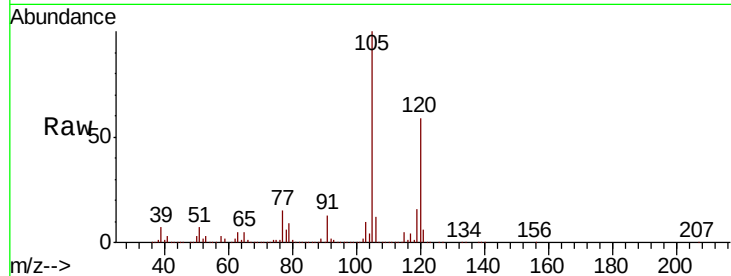
#84  
 1,2,4-Trimethylbenzene  
 Concen: 731.71 ug/l m  
 RT: 13.03 min Scan# 3501  
 Delta R.T. -0.01 min  
 Lab File: VN051121.D  
 Acq: 11 Sep 2018 12:44

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 EP1-MW-E

Tot Ion:105 Resp:18992857  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 23.3 69.8#

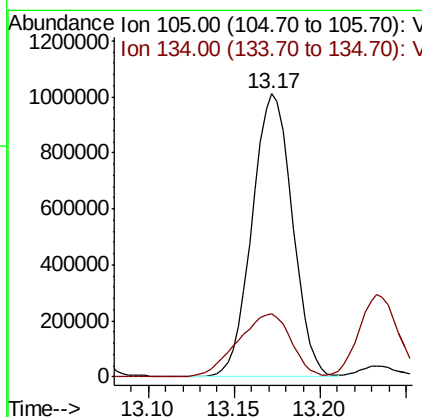
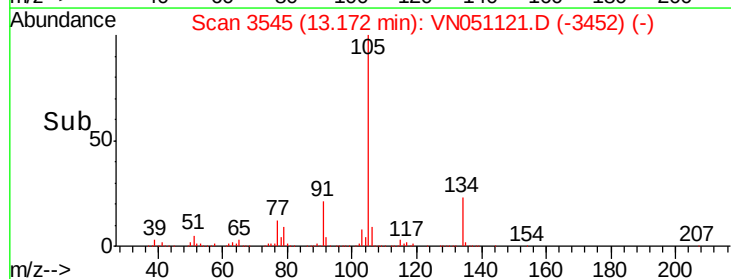
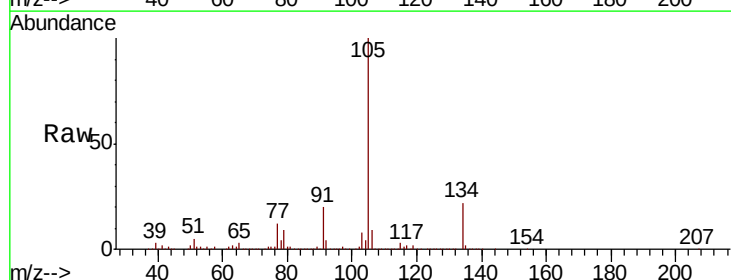
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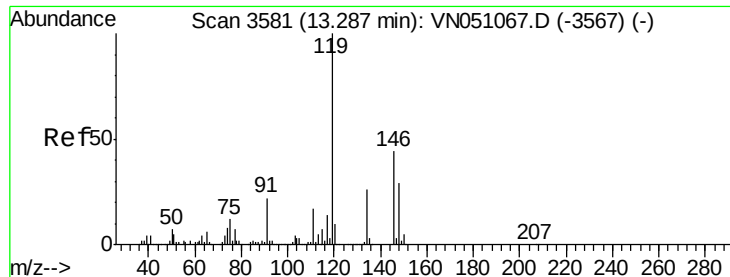
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 9/12/2018 10:07:00 AM



#85  
 sec-Butylbenzene  
 Concen: 54.74 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: VN051121.D  
 Acq: 11 Sep 2018 12:44

Tgt Ion:105 Resp: 1636257  
 Ion Ratio Lower Upper  
 105 100  
 134 29.7 10.4 31.4





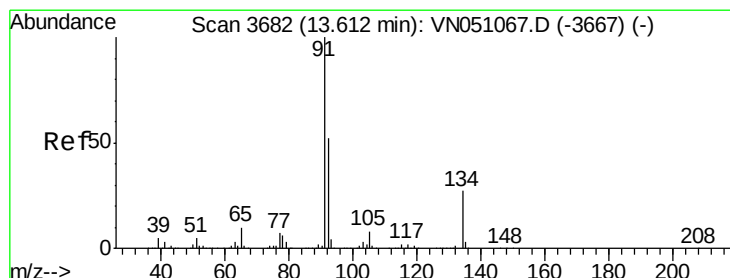
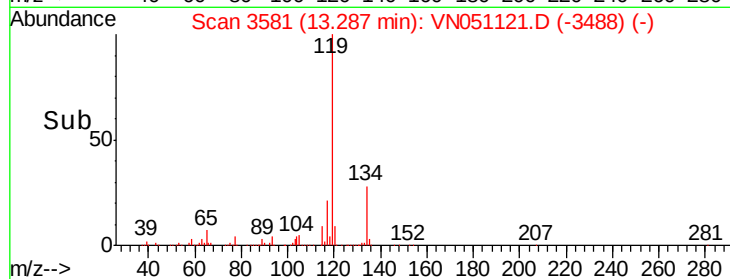
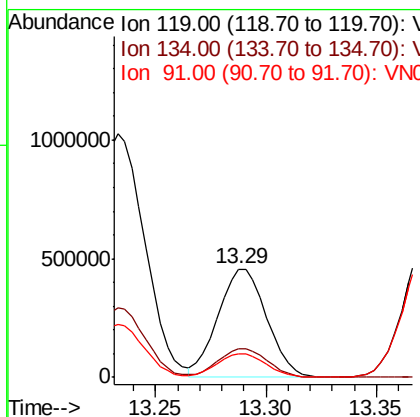
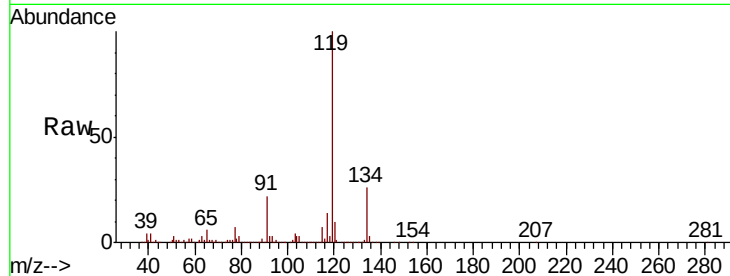
#86  
p-Isopropyltoluene  
Concen: 27.48 ug/l  
RT: 13.29 min Scan# 3581  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampled :  
EP1-MW-E

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 696478 |       |       |
| 134     | 26.8  |        | 13.5  | 40.4  |
| 91      | 22.0  |        | 10.9  | 32.9  |

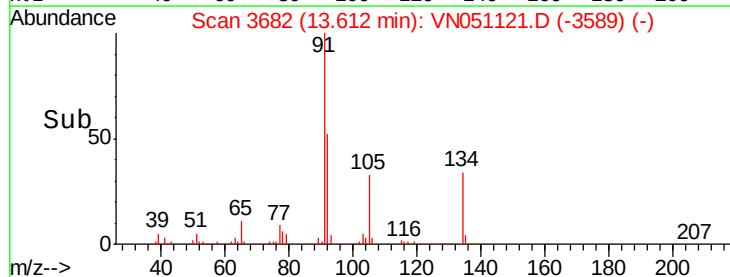
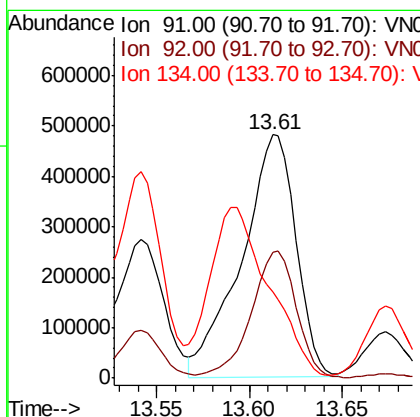
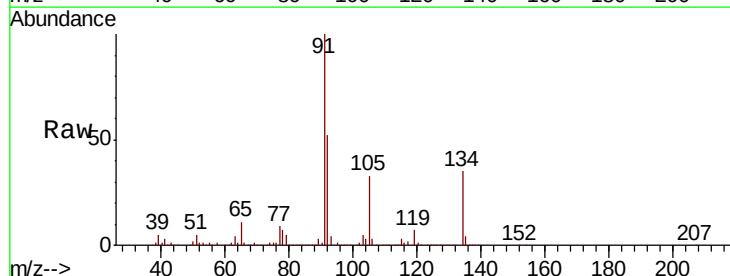
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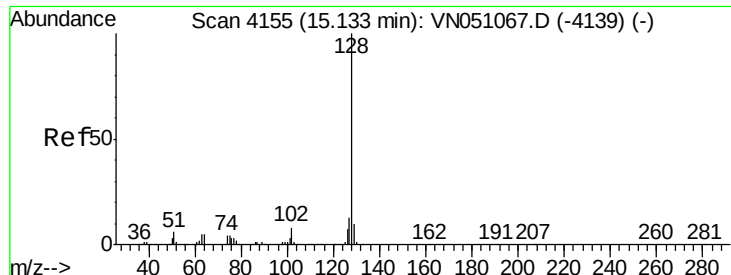
MMDadoda  
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#89  
n-Butylbenzene  
Concen: 49.53 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 977019 |       |       |
| 92      | 43.4  |        | 26.2  | 78.6  |
| 134     | 0.0   |        | 13.7  | 41.1# |





#95  
Naphthalene  
Concen: 14.44 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN051121.D  
Acq: 11 Sep 2018 12:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
EP1-MW-E

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 149114 |       |       |
| 127     | 12.3  |        | 10.6  | 15.8  |
| 129     | 11.0  |        | 8.6   | 12.8  |

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