

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\  
 Data File : VN051640.D  
 Acq On : 1 Oct 2018 16:07  
 Operator : MD\SY  
 Sample : J5166-02DL 5X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002M-35TH-AVE(AUG)DL

Manual Integrations  
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MMDadoda  
 10/2/2018 3:03:59 PM

Quant Time: Oct 02 01:43:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Sep 29 01:07:29 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min)  |
|-----------------------------|----------------|------|------------|---------|--------|-----------|
| 1) Bromochloromethane       | 7.20           | 128  | 95132      | 30.00   | ug/l   | 0.00      |
| 28) 1,4-Difluorobenzene     | 8.59           | 114  | 468220     | 30.00   | ug/l   | 0.00      |
| 57) Chlorobenzene-d5        | 11.41          | 117  | 414837     | 30.00   | ug/l   | 0.00      |
| System Monitoring Compounds |                |      |            |         |        |           |
| 27) 1,2-Dichloroethane-d4   | 8.03           | 65   | 207357     | 31.30   | ug/l   | 0.00      |
| Spiked Amount 30.000        | Range 50 - 169 |      | Recovery = | 104.33% |        |           |
| 60) 4-Bromofluorobenzene    | 12.40          | 95   | 143210     | 22.45   | ug/l   | 0.00      |
| Spiked Amount 30.000        | Range 56 - 143 |      | Recovery = | 74.83%  |        |           |
| 63) Toluene-d8              | 10.09          | 98   | 542157     | 27.70   | ug/l   | 0.00      |
| Spiked Amount 30.000        | Range 66 - 137 |      | Recovery = | 92.33%  |        |           |
| Target Compounds            |                |      |            |         |        |           |
| 15) Acetone                 | 3.82           | 58   | 180599     | 339.266 | ug/l   | Ovalue 93 |
| 30) 2-Butanone              | 6.85           | 43   | 7456m      | 3.431   | ug/l   |           |
| 58) 4-Methyl-2-Pentanone    | 9.99           | 43   | 3011       | 0.639   | ug/l # | 81        |
| 62) Toluene                 | 10.16          | 91   | 1424688    | 56.009  | ug/l   | 100       |
| 82) p-Isopropyltoluene      | 13.29          | 119  | 22588      | 1.034   | ug/l   | 94        |

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

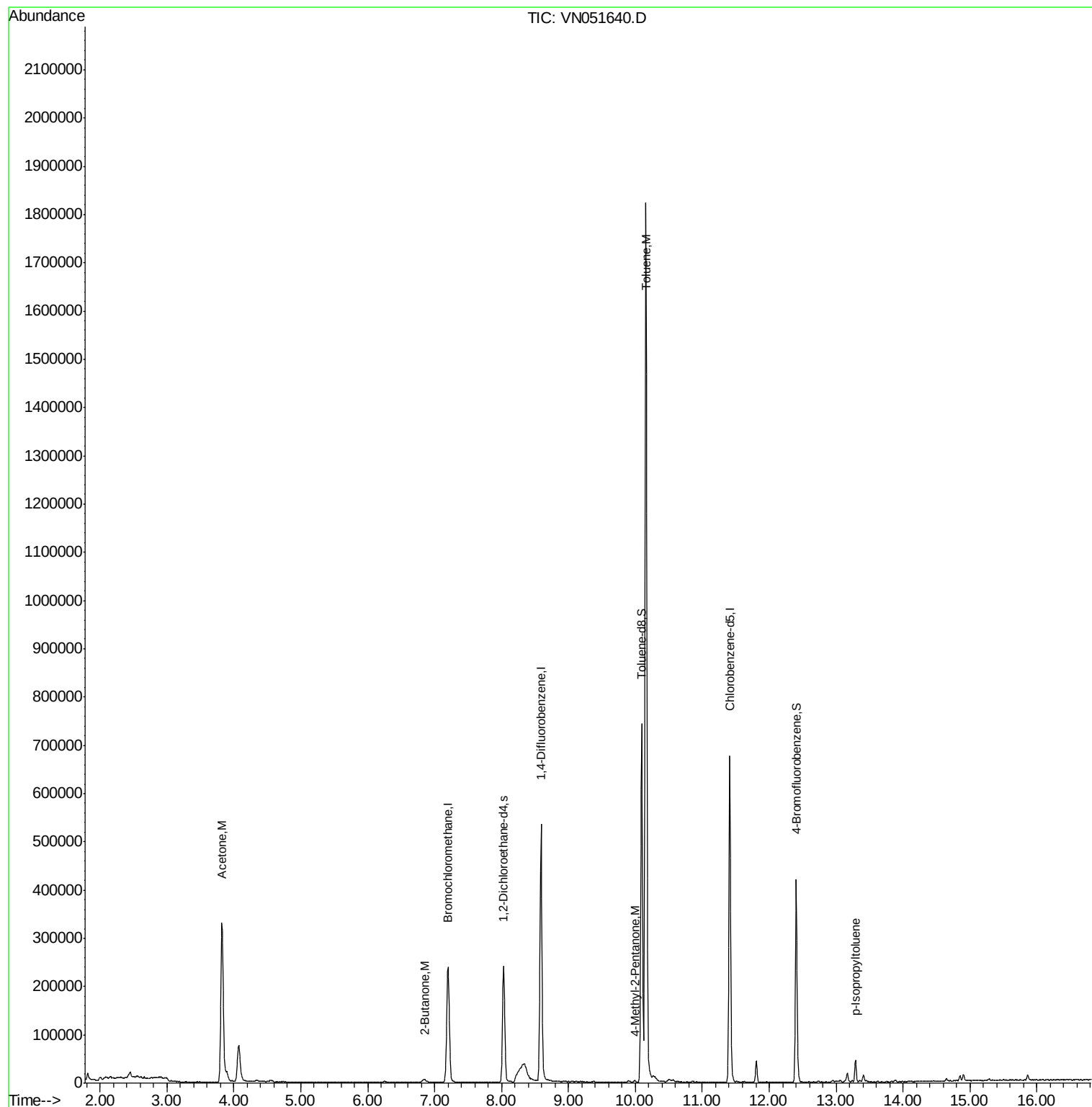
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\  
Data File : VN051640.D  
Acq On : 1 Oct 2018 16:07  
Operator : MD\SY  
Sample : J5166-02DL 5X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 16 Sample Multiplier: 28

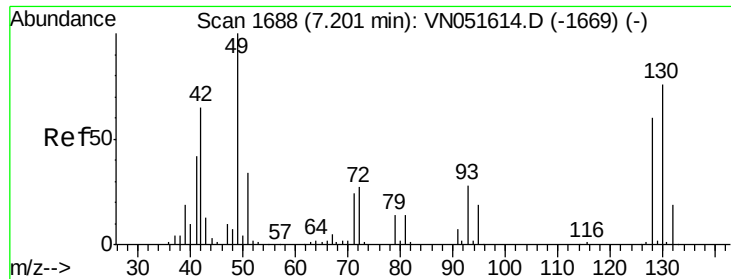
Instrument :  
MSVOA\_N  
ClientSampleId :  
002M-35TH-AVE(AUG)DL

Manual Integrations  
APPROVED

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10/2/2018 3:03:59 PM

Quant Time: Oct 02 01:43:35 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Sep 29 01:07:29 2018  
Response via : Initial Calibration





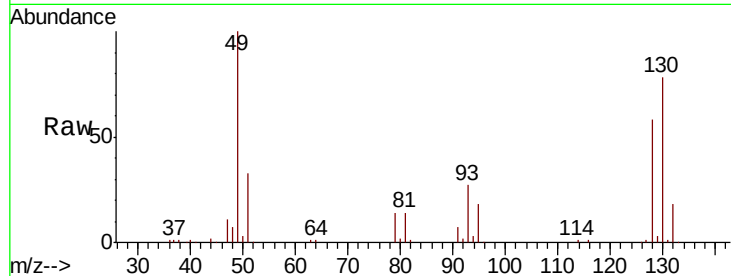
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.20 min Scan# 1688  
Delta R.T. -0.00 min  
Lab File: VN051640.D  
Acq: 1 Oct 2018 16:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
002M-35TH-AVE(AUG)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 170.2 | 0.0   | 426.8 |
| 130     | 130.1 | 0.0   | 326.3 |

Manual Integrations  
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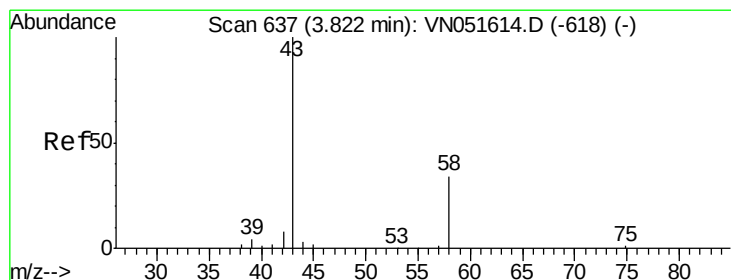
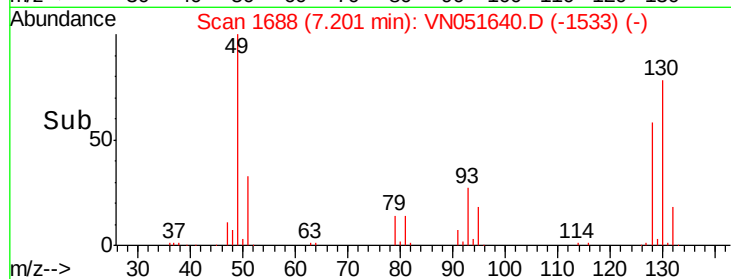
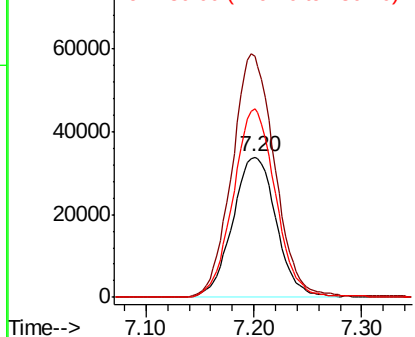


Abundance

Ion 128.00 (127.70 to 128.70): V

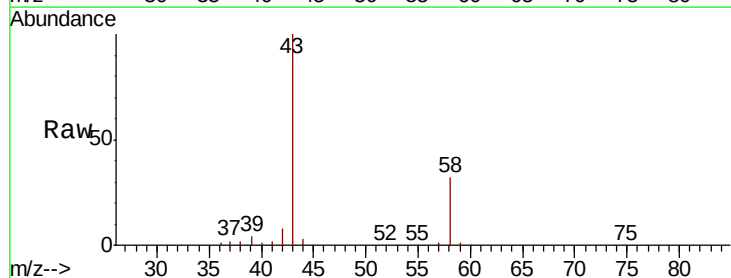
Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#15  
Acetone  
Concen: 339.266 ug/l  
RT: 3.82 min Scan# 637  
Delta R.T. -0.00 min  
Lab File: VN051640.D  
Acq: 1 Oct 2018 16:07

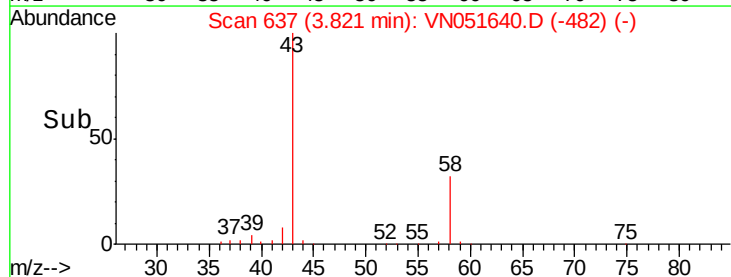
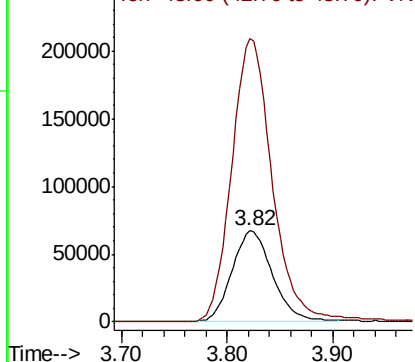
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 43      | 310.8 | 238.0 | 357.0 |

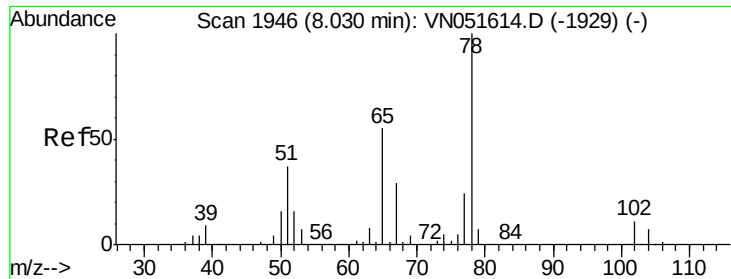


Abundance

Ion 58.00 (57.70 to 58.70): VN

Ion 43.00 (42.70 to 43.70): VN





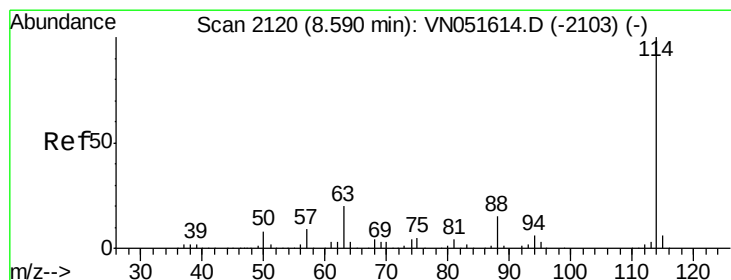
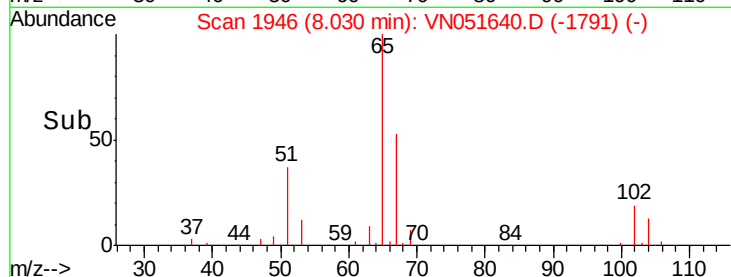
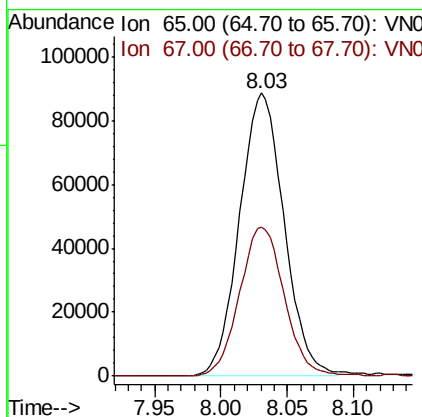
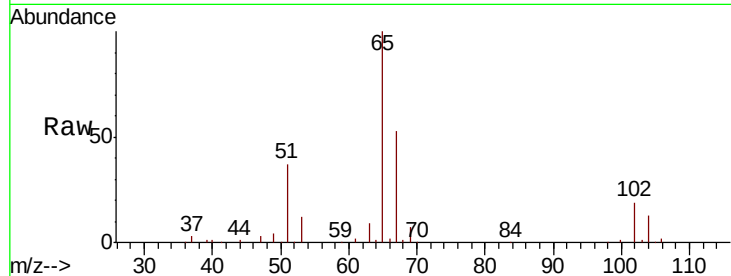
#27  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. -0.00 min  
 Lab File: VN051640.D  
 Acq: 1 Oct 2018 16:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002M-35TH-AVE(AUG)DL

Tot Ion: 65 Resp: 207357  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 43.1 64.7

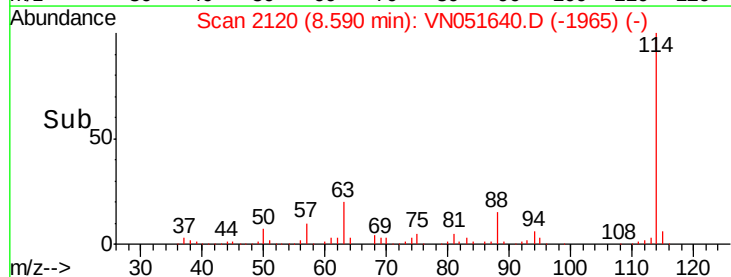
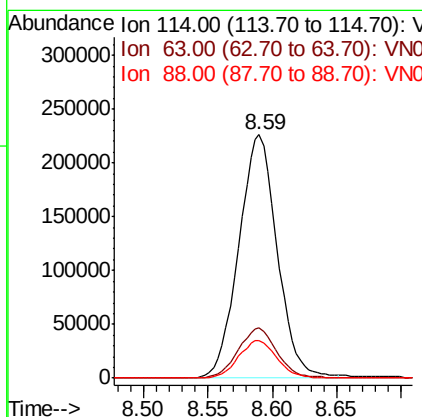
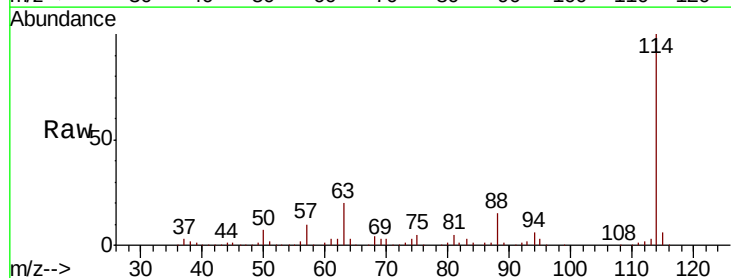
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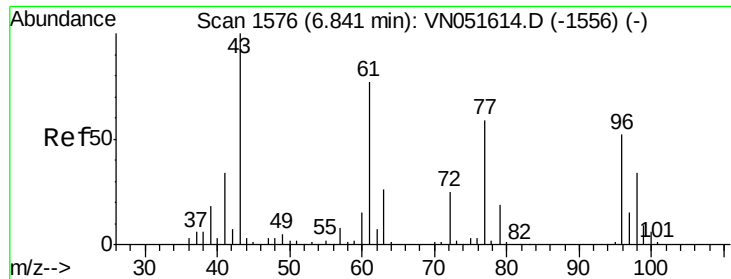
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#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2120  
 Delta R.T. -0.00 min  
 Lab File: VN051640.D  
 Acq: 1 Oct 2018 16:07

Tgt Ion: 114 Resp: 468220  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 16.4 24.6  
 88 15.5 12.6 18.8





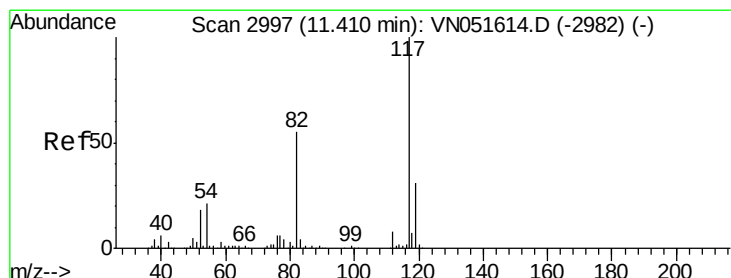
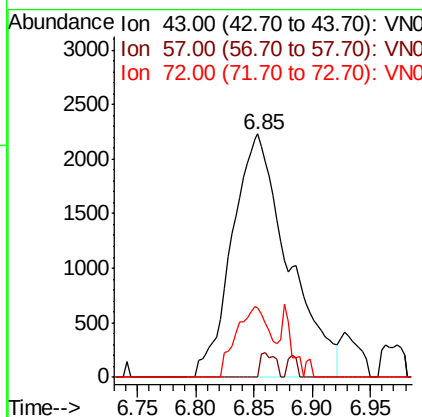
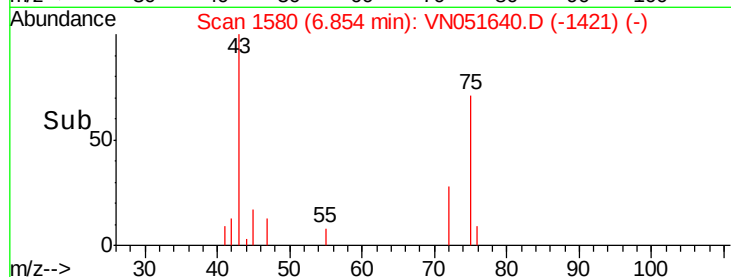
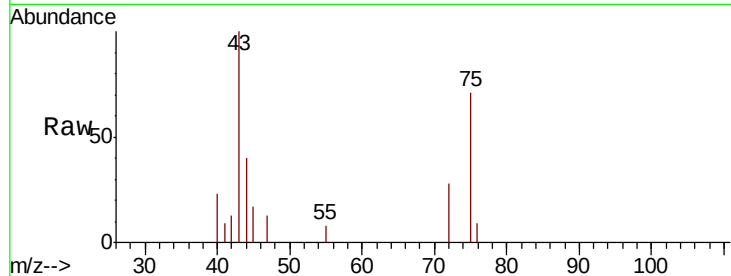
#30  
2-Butanone  
Concen: 3.431 ug/l m  
RT: 6.85 min Scan# 1580  
Delta R.T. 0.01 min  
Lab File: VN051640.D  
Acq: 1 Oct 2018 16:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
002M-35TH-AVE(AUG)DL

Tot Ion: 43 Resp: 7456  
Ion Ratio Lower Upper  
43 100  
57 1.6 6.6 10.0#  
72 17.5 20.8 31.2#

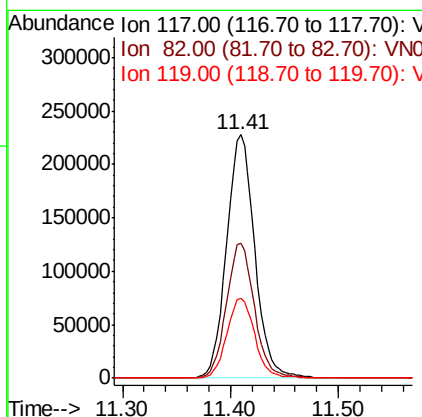
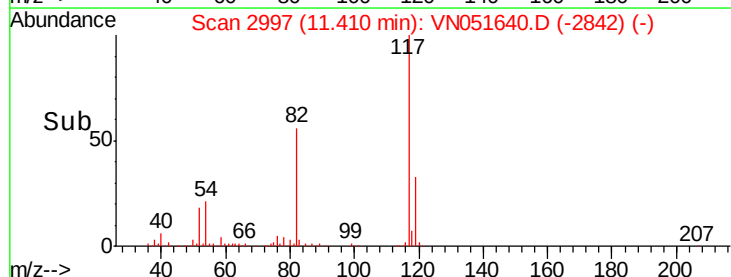
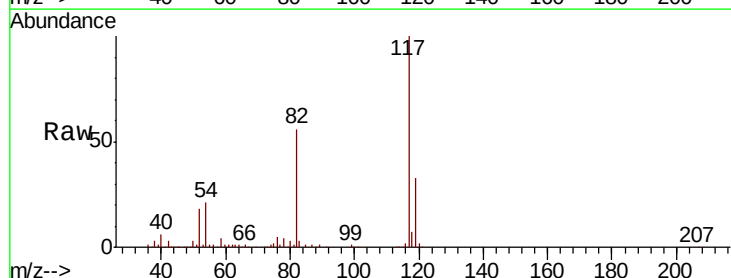
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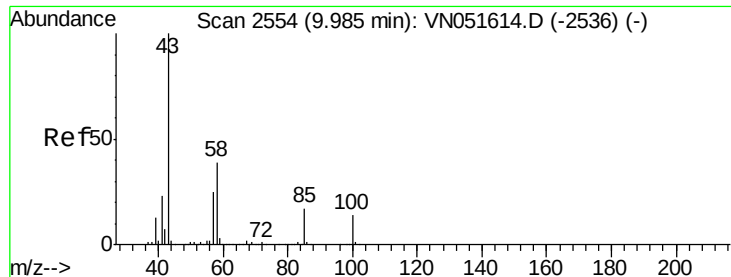
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#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. -0.00 min  
Lab File: VN051640.D  
Acq: 1 Oct 2018 16:07

Tgt Ion: 117 Resp: 414837  
Ion Ratio Lower Upper  
117 100  
82 55.1 44.2 66.2  
119 32.6 25.2 37.8





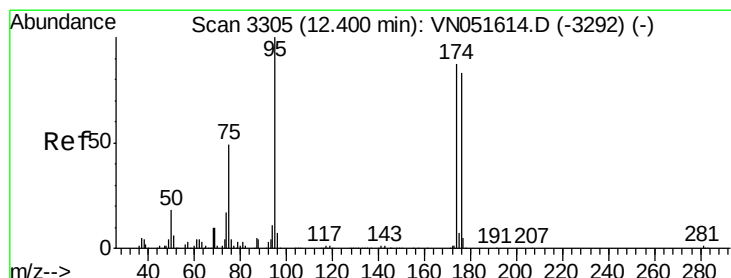
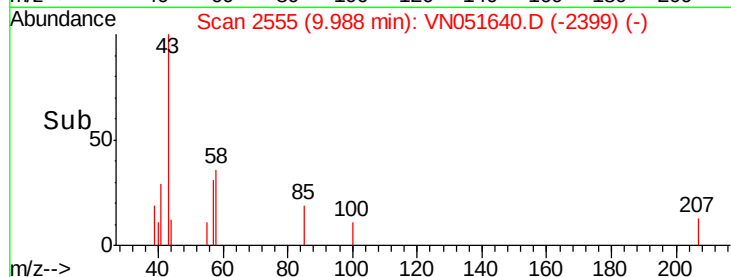
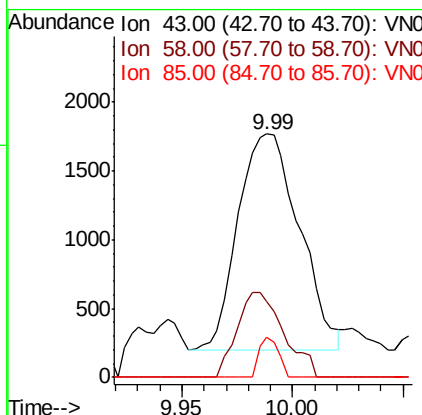
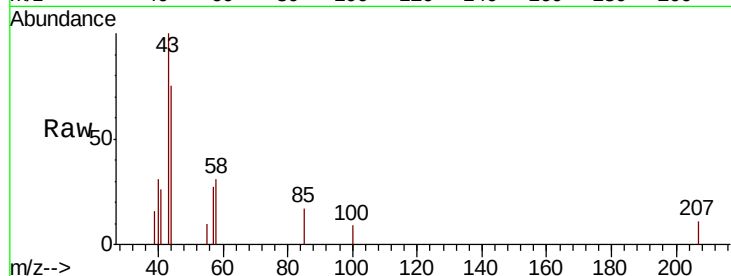
#58  
 4-Methyl-2-Pentanone  
 Concen: 0.639 ug/l  
 RT: 9.99 min Scan# 2555  
 Delta R.T. 0.00 min  
 Lab File: VN051640.D  
 Acq: 1 Oct 2018 16:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002M-35TH-AVE(AUG)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 29.2  | 31.0  | 46.4# |
| 85      | 5.9   | 13.4  | 20.2# |

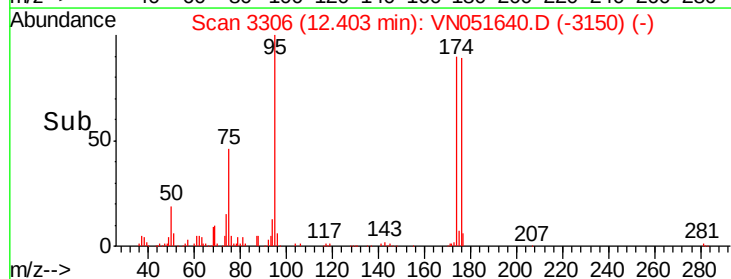
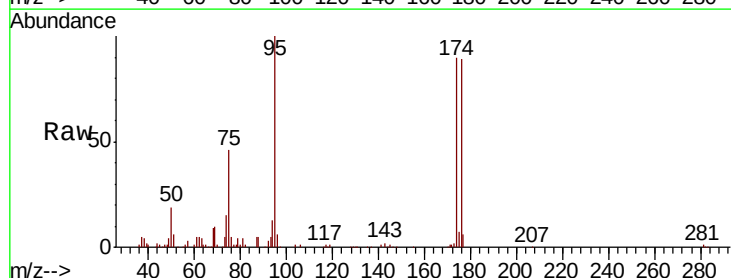
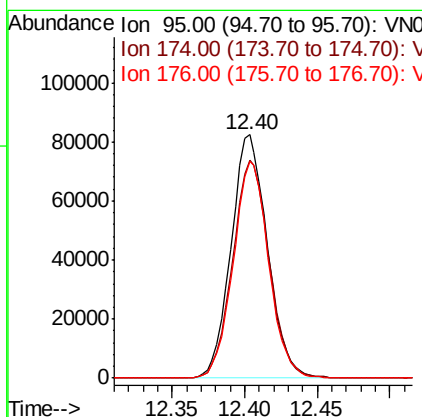
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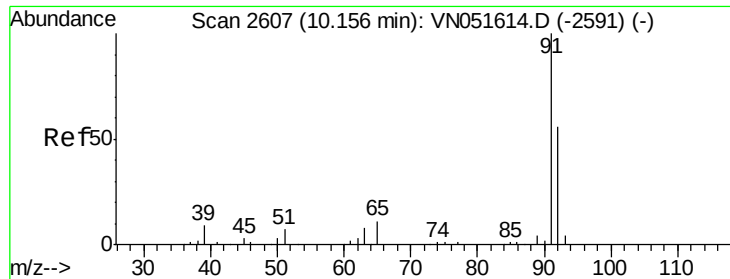
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#60  
 4-Bromofluorobenzene  
 Concen: Below ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.00 min  
 Lab File: VN051640.D  
 Acq: 1 Oct 2018 16:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 90.0  | 71.2  | 106.8 |
| 176     | 87.1  | 67.8  | 101.8 |





#62

Toluene

Concen: 56.009 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

Instrument :

MSVOA\_N

ClientSampleId :

002M-35TH-AVE(AUG)DL

Tot Ion: 91 Resp: 1424688

Ion Ratio Lower Upper

91 100

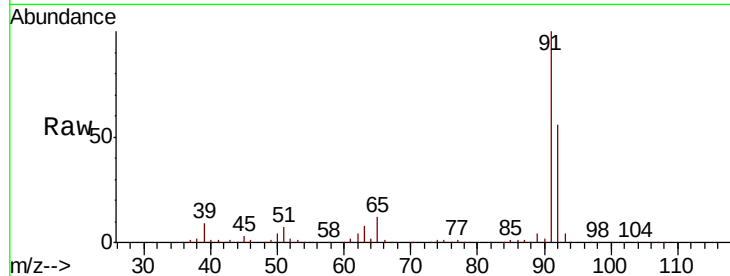
92 56.6 45.3 67.9

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN051614.D (-2591) (-)

Ion 92.00 (91.70 to 92.70): VN051614.D (-2591) (-)

10.16

800000

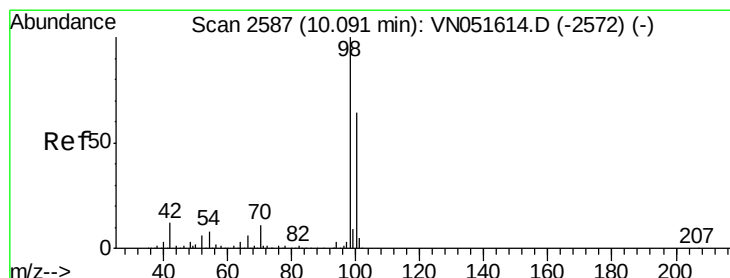
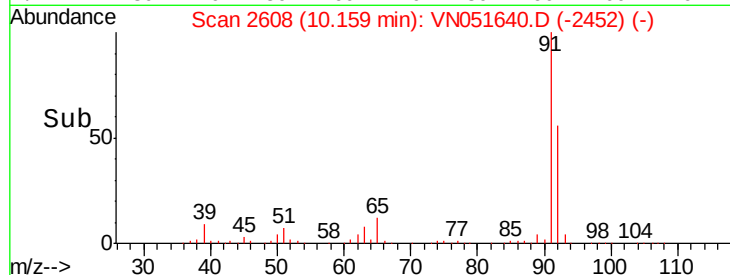
600000

400000

200000

0

Time-->



#63

Toluene-d8

Concen: 56.009 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051640.D

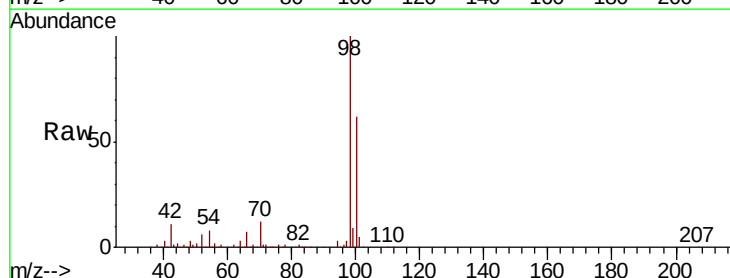
Acq: 1 Oct 2018 16:07

Tgt Ion: 98 Resp: 542157

Ion Ratio Lower Upper

98 100

100 62.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN051614.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN051614.D (-2572) (-)

10.09

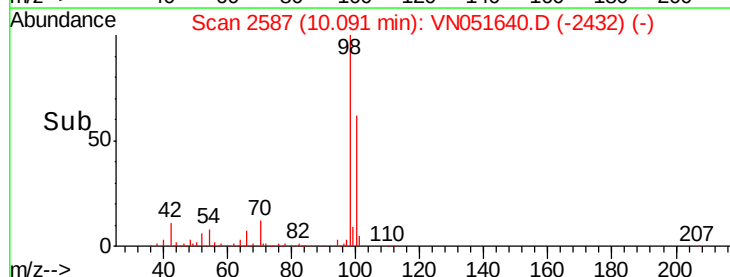
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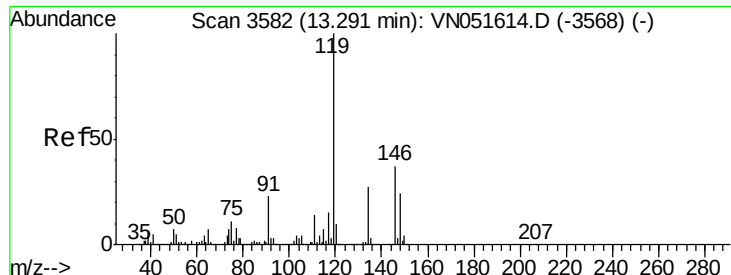
200000

100000

0

Time-->





#82  
 p-Isopropyltoluene  
 Concen: 1.034 ug/l  
 RT: 13.29 min Scan# 3582  
 Delta R.T. -0.00 min  
 Lab File: VN051640.D  
 Acq: 1 Oct 2018 16:07

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002M-35TH-AVE(AUG)DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 119   | Resp: | 22588 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 134       | 27.8  | 0.0   | 52.0  |
| 91        | 27.1  | 0.0   | 46.0  |

Manual Integrations  
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