

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN080718\  
 Data File : VN050432.D  
 Acq On : 7 Aug 2018 15:26  
 Operator : MD\SY  
 Sample : J4297-02ME  
 Misc : 6.13g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-2ME

Manual Integrations  
 APPROVED

MMDadoda  
 8/8/2018 10:47:31 AM

Quant Time: Aug 08 07:55:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.66   | 168  | 799354   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59   | 114  | 1216349  | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41  | 117  | 1101847  | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35  | 152  | 599542   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65   | 475649   | 44.54 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 89.08% |          |
| 35) Dibromofluoromethane    | 7.59   | 113  | 431862   | 44.25 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 88.50% |          |
| 50) Toluene-d8              | 10.09  | 98   | 1743050  | 47.50 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 95.00% |          |
| 62) 4-Bromofluorobenzene    | 12.40  | 95   | 601863   | 48.12 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 96.24% |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 39) Methylcyclohexane       | 9.08   | 83   | 39808    | 2.73  | ug/l   | 98       |
| 52) Toluene                 | 10.16  | 92   | 21543    | 0.87  | ug/l   | 90       |
| 67) Ethyl Benzene           | 11.51  | 91   | 313092   | 7.01  | ug/l   | 99       |
| 68) m/p-Xylenes             | 11.62  | 106  | 211923   | 12.47 | ug/l   | 88       |
| 69) o-Xylene                | 11.95  | 106  | 170867   | 10.43 | ug/l   | 99       |
| 73) Isopropylbenzene        | 12.25  | 105  | 153173   | 3.40  | ug/l   | 97       |
| 78) n-propylbenzene         | 12.59  | 91   | 454556   | 8.92  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.73  | 105  | 774462   | 21.20 | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.04  | 105  | 2271998  | 61.39 | ug/l   | 100      |
| 85) sec-Butylbenzene        | 13.17  | 105  | 293541   | 6.91  | ug/l # | 72       |
| 86) p-Isopropyltoluene      | 13.29  | 119  | 338418   | 9.30  | ug/l   | 98       |
| 89) n-Butylbenzene          | 13.62  | 91   | 596893   | 19.26 | ug/l # | 74       |
| 95) Naphthalene             | 15.14  | 128  | 2481152  | 82.90 | ug/l # | 95       |

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

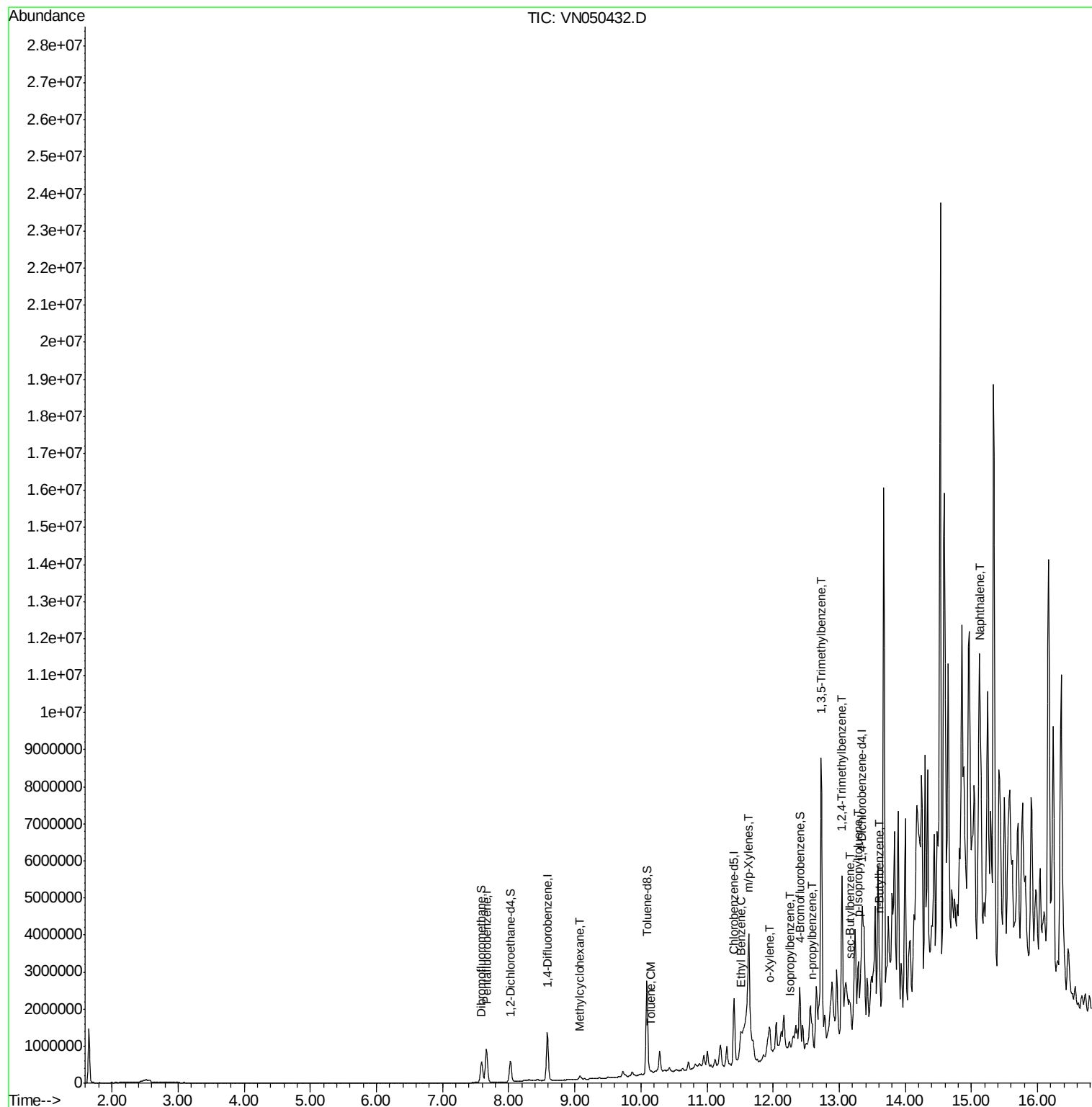
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\  
Data File : VN050432.D  
Acq On : 7 Aug 2018 15:26  
Operator : MD\SY  
Sample : J4297-02ME  
Misc : 6.13a/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 11 Sample Multiplier: 1

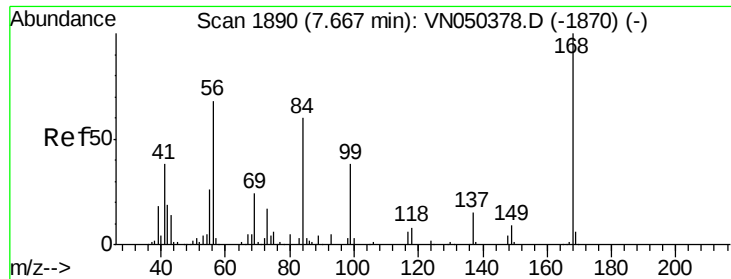
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-2ME

Manual Integrations  
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8/8/2018 10:47:31 AM

Quant Time: Aug 08 07:55:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 05:22:15 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN050432.D

Acq: 7 Aug 2018 15:26

Instrument :

MSVOA\_N

ClientSampled :

TP-2ME

Tot Ion:168 Resp: 799354

Ion Ratio Lower Upper

168 100

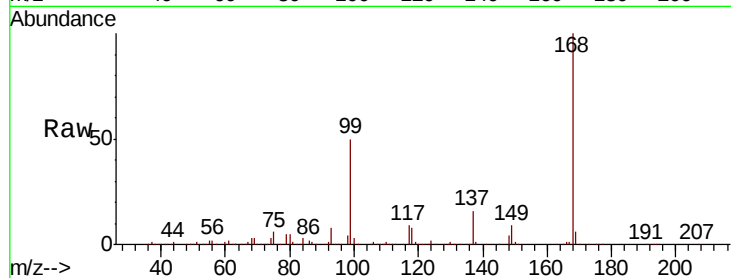
99 50.3 40.0 60.0

Manual Integrations

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8/8/2018 10:47:31 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

300000

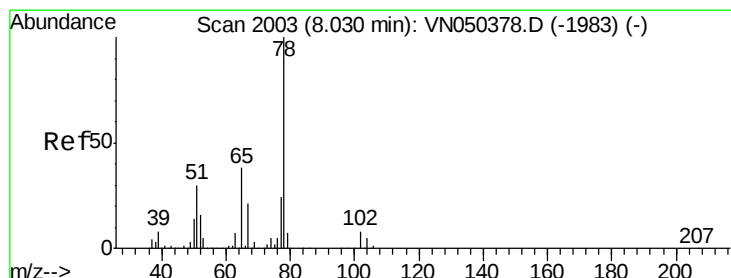
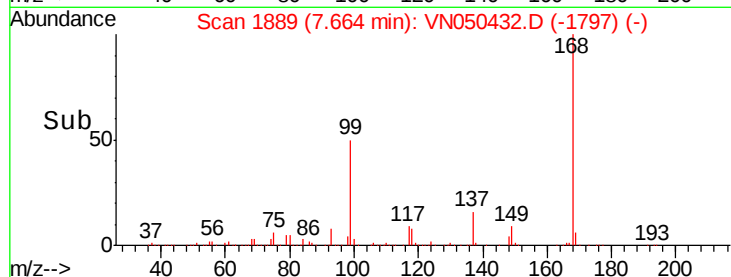
200000

100000

0

Time-->

7.60 7.70 7.80



#33

1,2-Dichloroethane-d4

Concen: 44.54 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050432.D

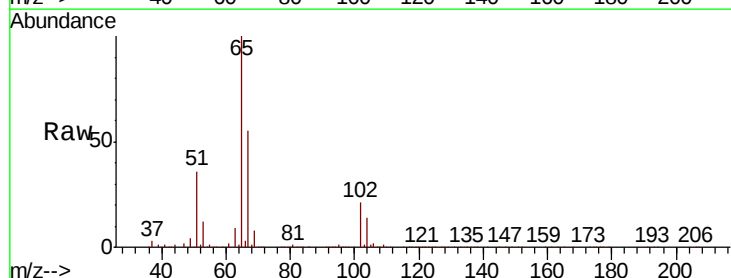
Acq: 7 Aug 2018 15:26

Tgt Ion: 65 Resp: 475649

Ion Ratio Lower Upper

65 100

67 54.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.03

200000

150000

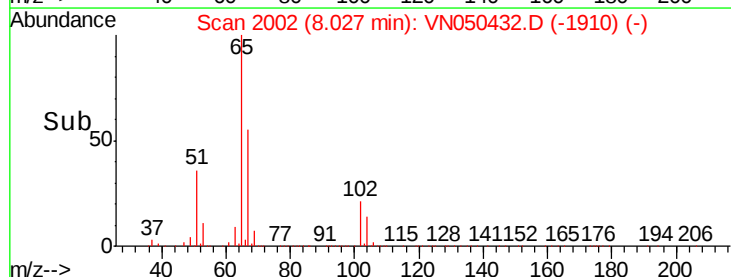
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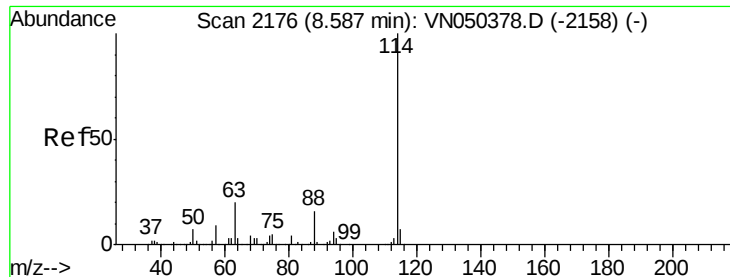
50000

0

Time-->

7.90 8.00 8.10





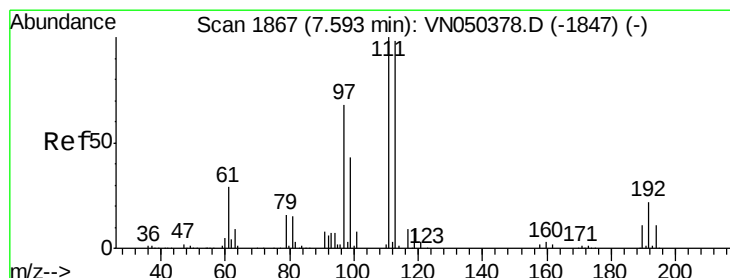
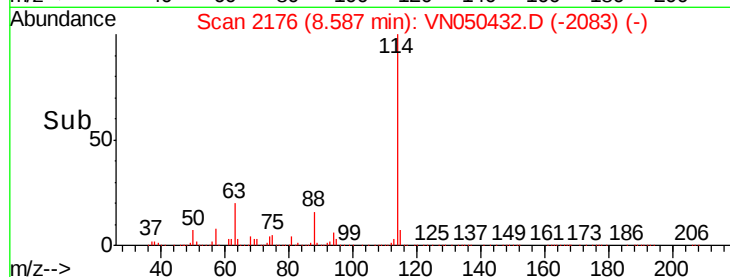
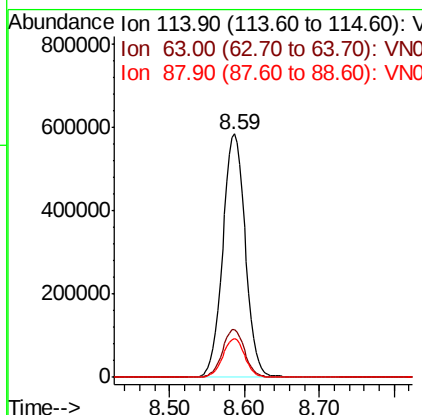
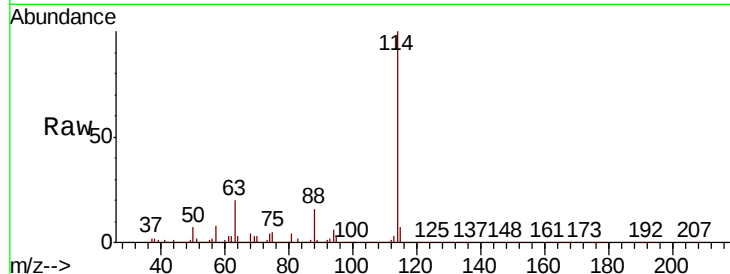
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VN050432.D  
 Acq: 7 Aug 2018 15:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-2ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.7  | 0.0   | 40.0  |
| 88      | 15.9  | 0.0   | 31.2  |

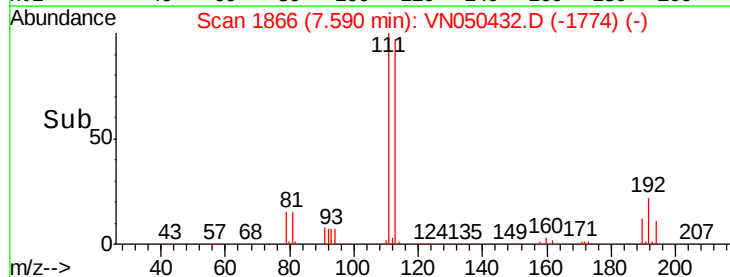
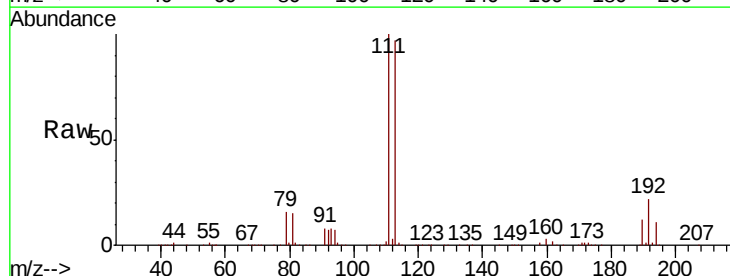
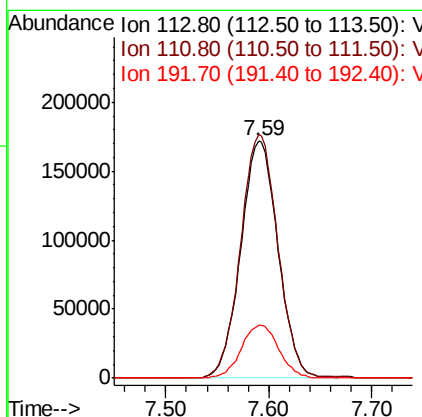
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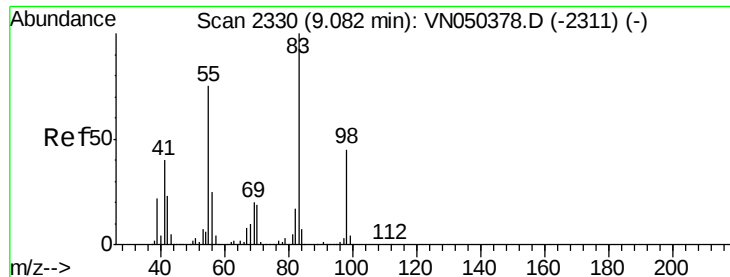
MMDadoda  
 8/8/2018 10:47:31 AM



#35  
 Dibromofluoromethane  
 Concen: 44.25 ug/l  
 RT: 7.59 min Scan# 1866  
 Delta R.T. -0.00 min  
 Lab File: VN050432.D  
 Acq: 7 Aug 2018 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 80.7  | 121.1 |
| 192     | 22.6  | 17.8  | 26.6  |





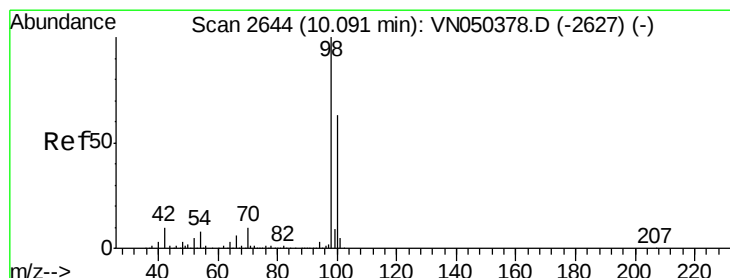
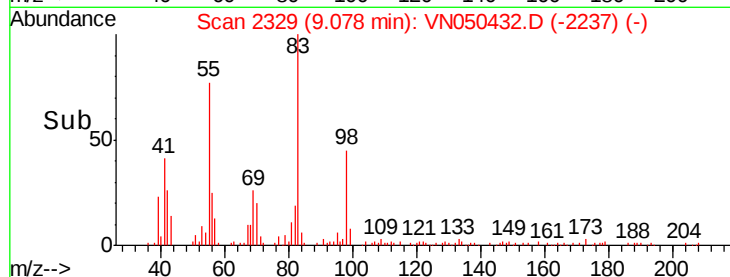
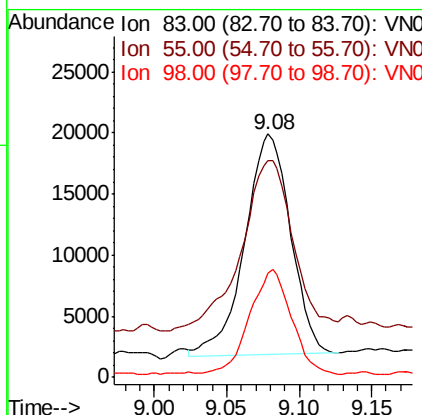
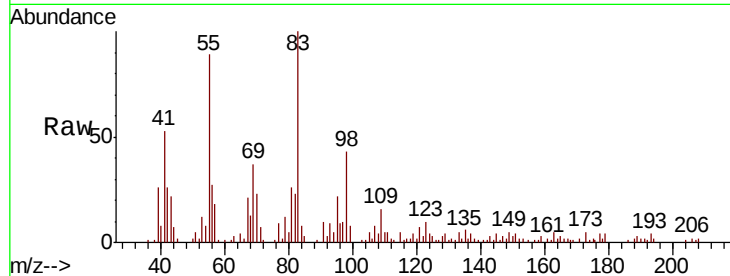
#39  
Methvlcvclohexane  
Concen: 2.73 ug/l  
RT: 9.08 min Scan# 2329  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-2ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 74.2  | 61.8  | 92.8  |
| 98      | 45.7  | 36.5  | 54.7  |

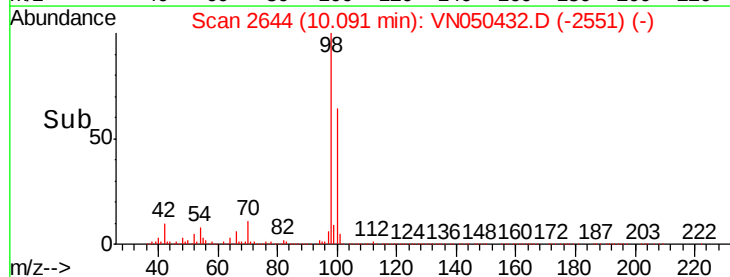
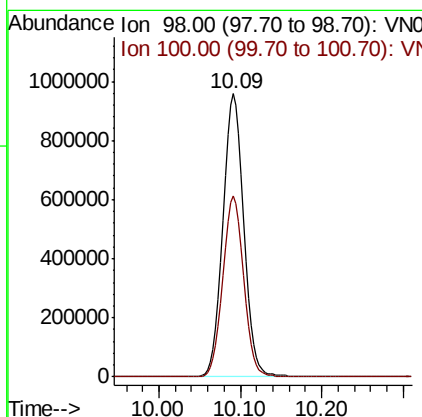
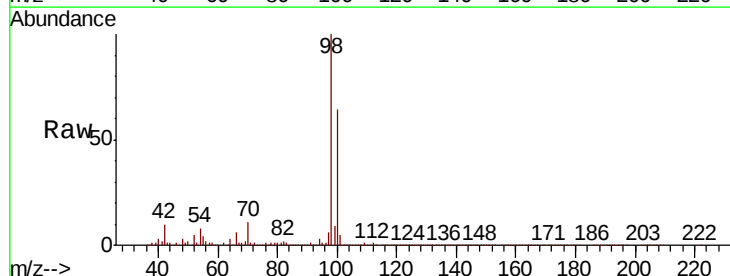
Manual Integrations  
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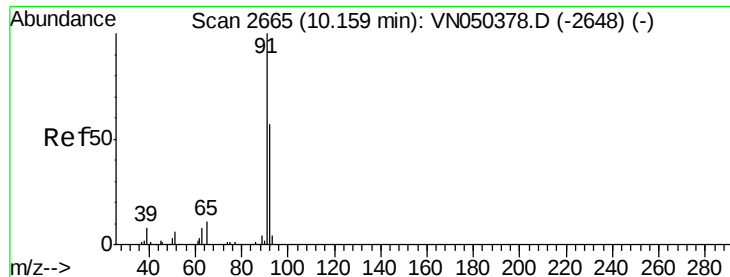
MMDadoda  
8/8/2018 10:47:31 AM



#50  
Toluene-d8  
Concen: 47.50 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.0  | 50.7  | 76.1  |





#52

Toluene

Concen: 0.87 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050432.D

Acq: 7 Aug 2018 15:26

Instrument :

MSVOA\_N

ClientSampled :

TP-2ME

Tot Ion: 92 Resp: 21543

Ion Ratio Lower Upper

92 100

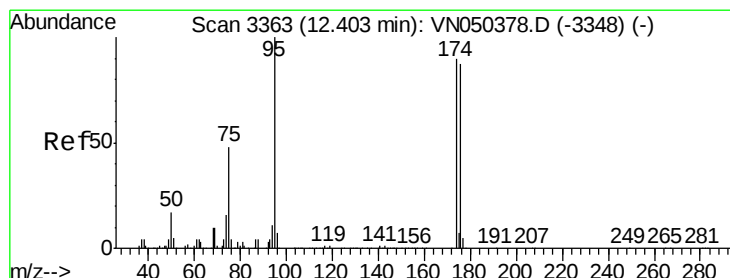
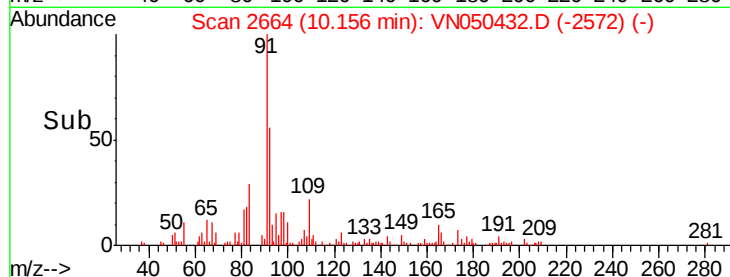
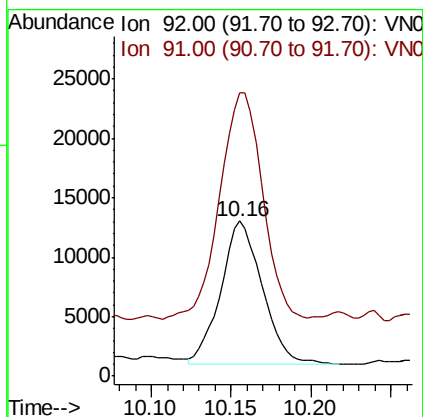
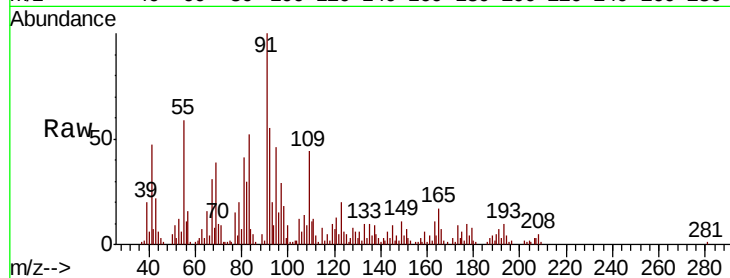
91 161.3 140.3 210.5

Manual Integrations

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8/8/2018 10:47:31 AM



#62

4-Bromofluorobenzene

Concen: 48.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050432.D

Acq: 7 Aug 2018 15:26

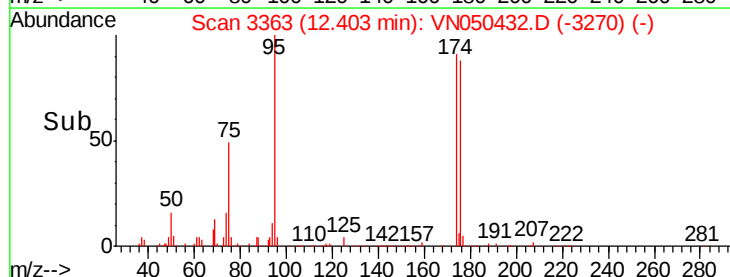
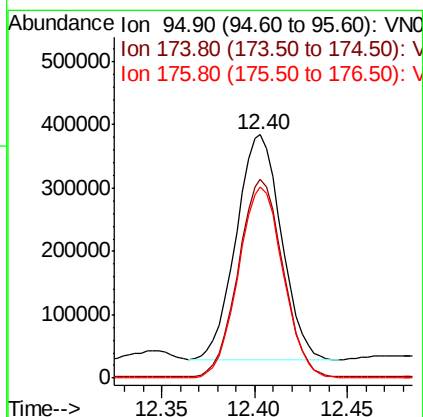
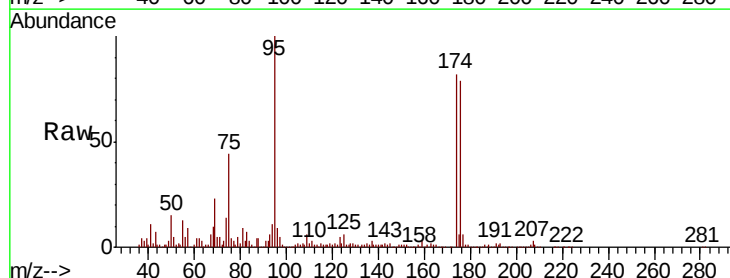
Tgt Ion: 95 Resp: 601863

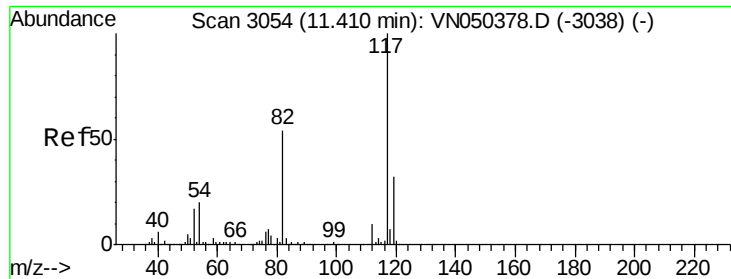
Ion Ratio Lower Upper

95 100

174 86.3 0.0 178.2

176 84.0 0.0 173.4





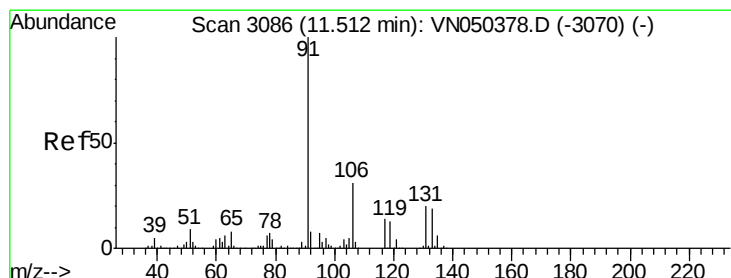
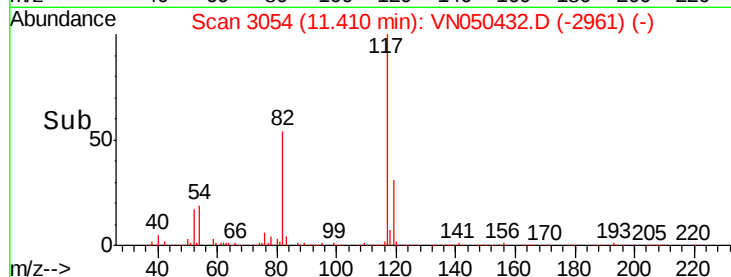
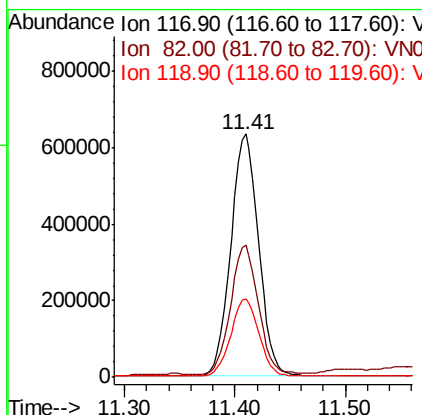
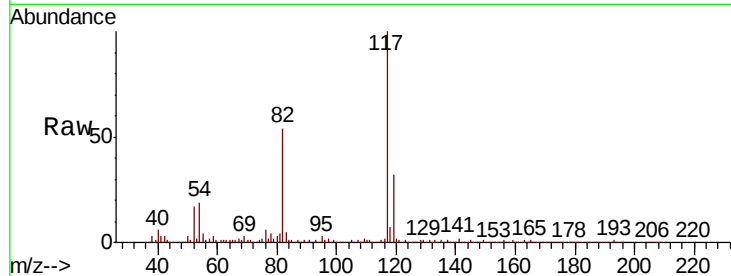
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-2ME

Tot Ion:117 Resp: 1101847  
Ion Ratio Lower Upper  
117 100  
82 53.1 43.7 65.5  
119 31.9 26.1 39.1

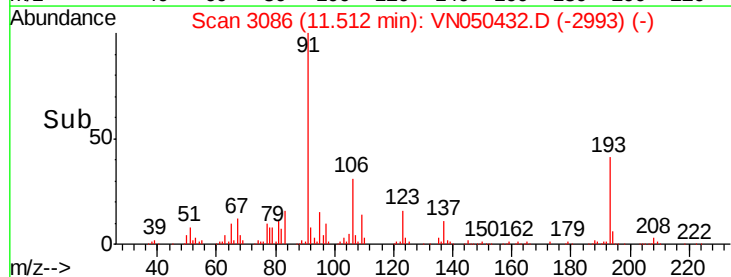
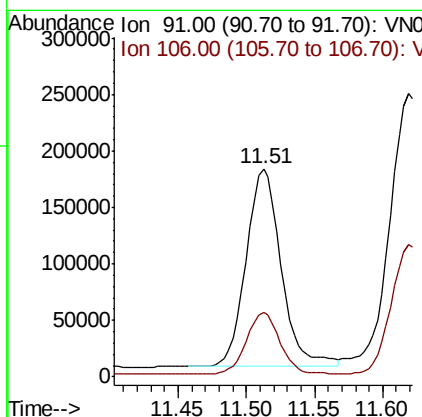
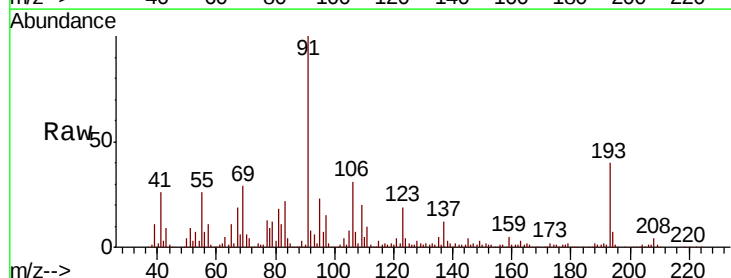
Manual Integrations  
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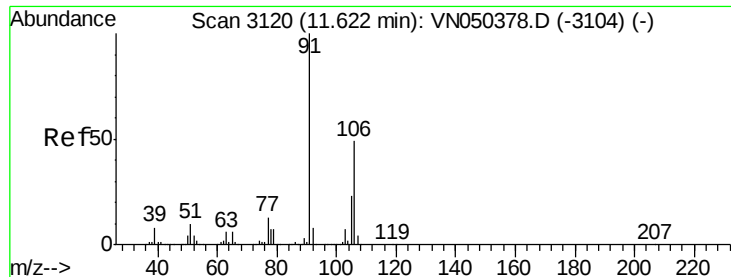
MMDadoda  
8/8/2018 10:47:31 AM



#67  
Ethyl Benzene  
Concen: 7.01 ug/l  
RT: 11.51 min Scan# 3086  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Tgt Ion: 91 Resp: 313092  
Ion Ratio Lower Upper  
91 100  
106 30.7 25.0 37.4





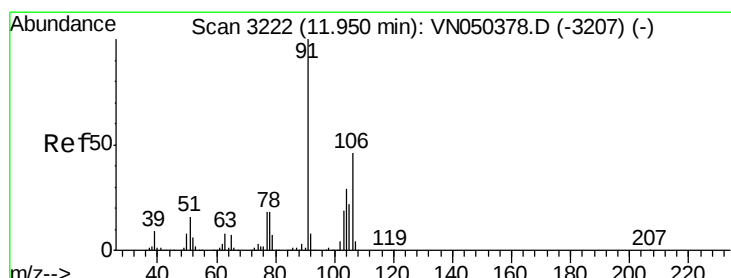
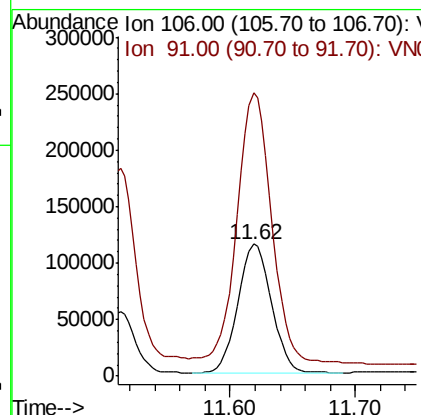
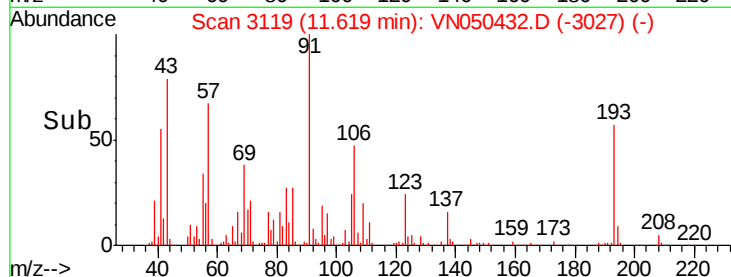
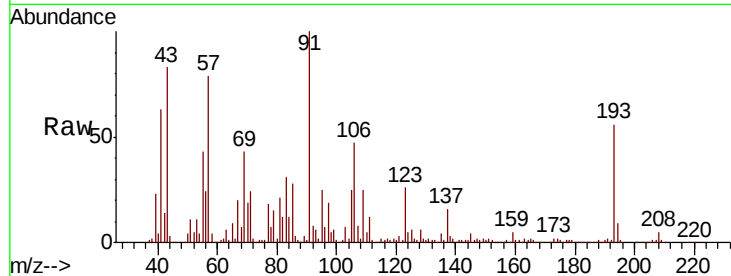
#68  
m/p-Xylenes  
Concen: 12.47 ug/l  
RT: 11.62 min Scan# 3119  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-2ME

Tot Ion:106 Resp: 211923  
Ion Ratio Lower Upper  
106 100  
91 221.6 162.2 243.2

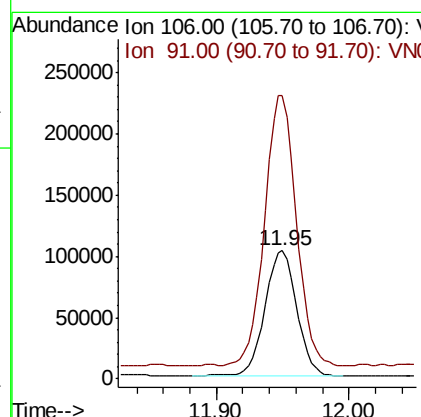
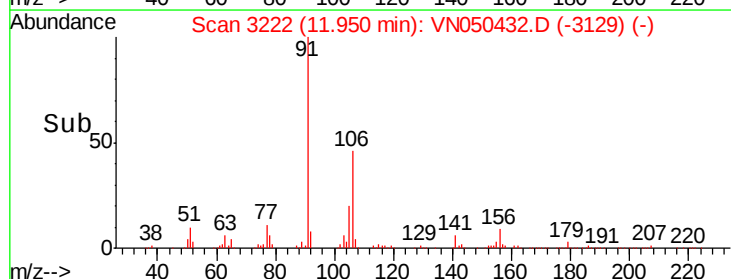
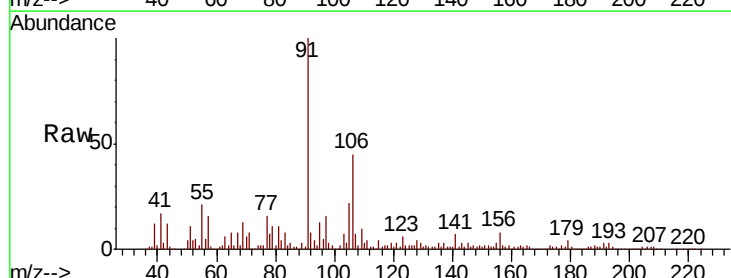
Manual Integrations  
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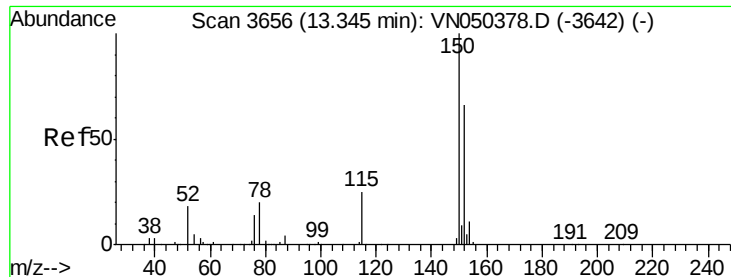
MMDadoda  
8/8/2018 10:47:31 AM



#69  
o-Xylene  
Concen: 10.43 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Tgt Ion:106 Resp: 170867  
Ion Ratio Lower Upper  
106 100  
91 214.6 107.7 323.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050432.D

Acq: 7 Aug 2018 15:26

Instrument :

MSVOA\_N

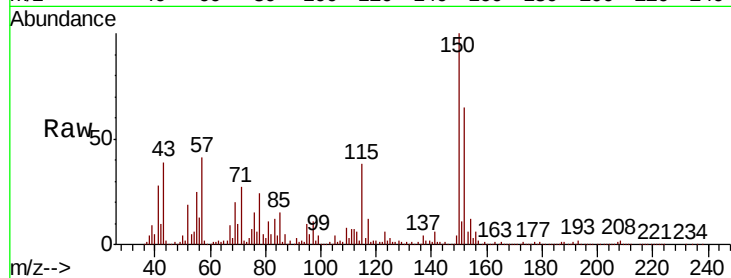
ClientSampled :

TP-2ME

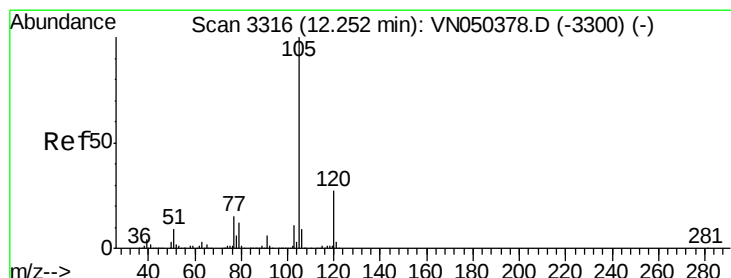
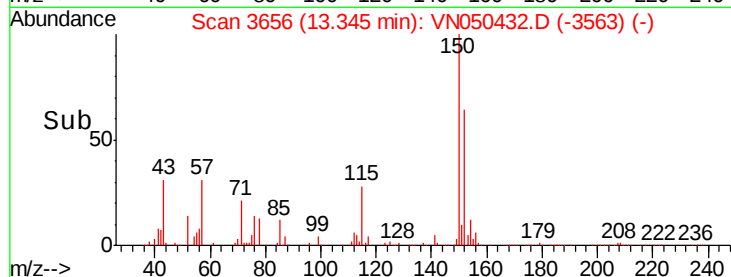
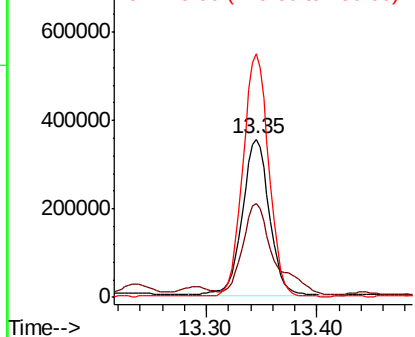
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 599542 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 66.8  | 27.8  | 83.3   |
| 150       | 147.6 | 0.0   | 348.6  |

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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: 3.40 ug/l

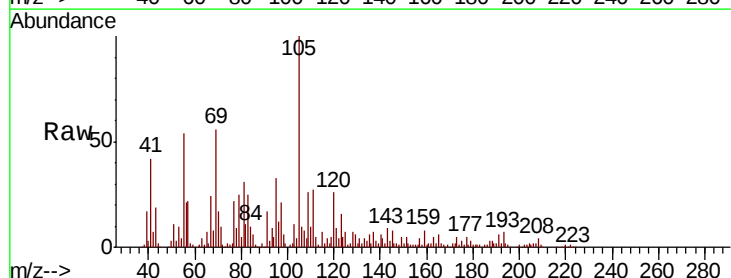
RT: 12.25 min Scan# 3316

Delta R.T. -0.00 min

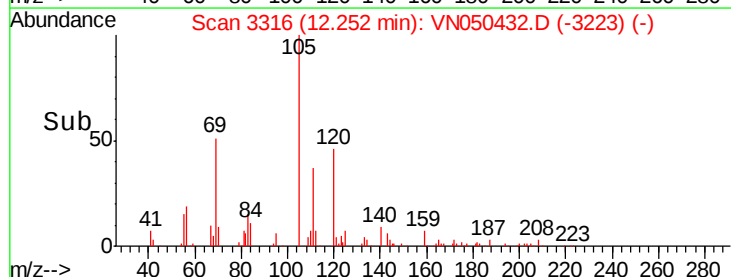
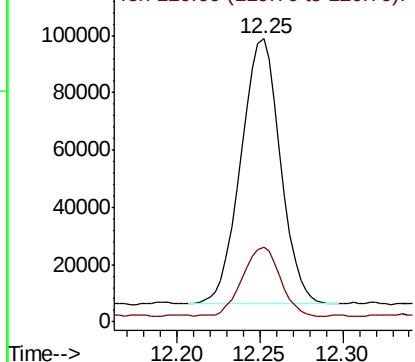
Lab File: VN050432.D

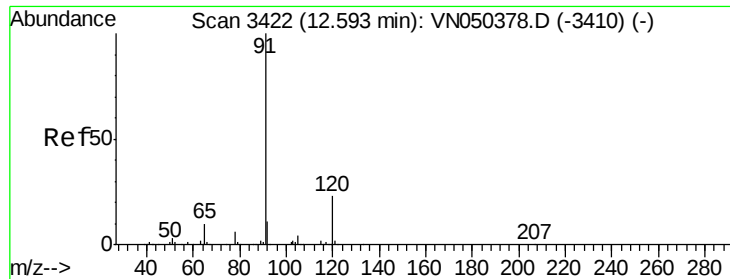
Acq: 7 Aug 2018 15:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 153173 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 24.8  | 13.3  | 39.8   |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 8.92 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN050432.D

Acq: 7 Aug 2018 15:26

Instrument :

MSVOA\_N

ClientSampled :

TP-2ME

Tot Ion: 91 Resp: 454556

Ion Ratio Lower Upper

91 100

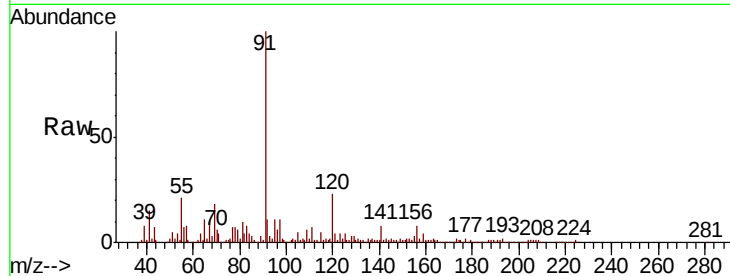
120 22.5 11.6 34.7

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Abundance Ion 91.00 (90.70 to 91.70): VN050378.D (-3410) (-)

Ion 120.00 (119.70 to 120.70): VN050378.D (-3410) (-)

12.59

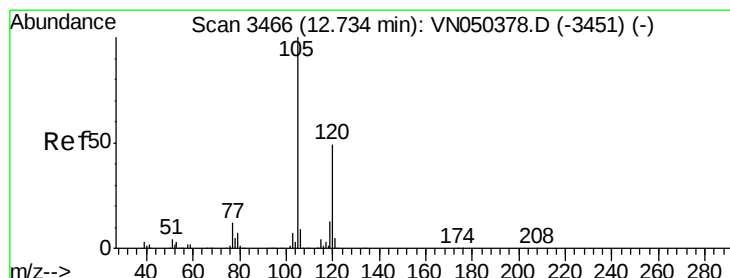
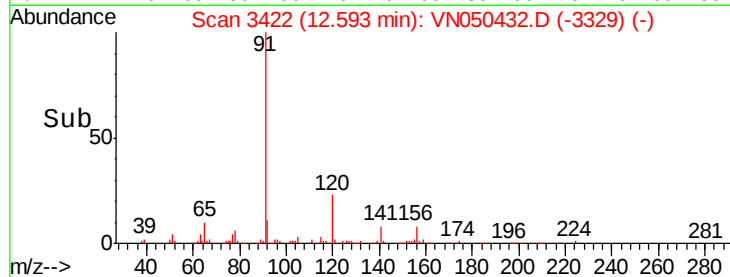
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.20 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050432.D

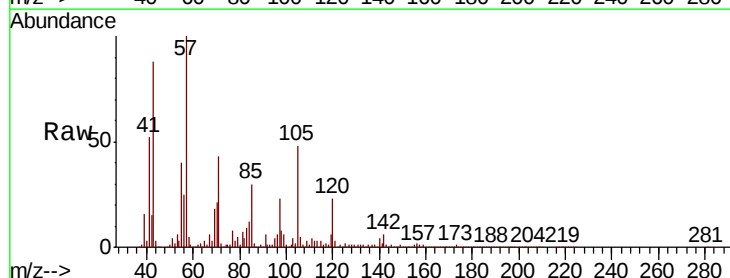
Acq: 7 Aug 2018 15:26

Tgt Ion: 105 Resp: 774462

Ion Ratio Lower Upper

105 100

120 47.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050378.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN050378.D (-3451) (-)

12.73

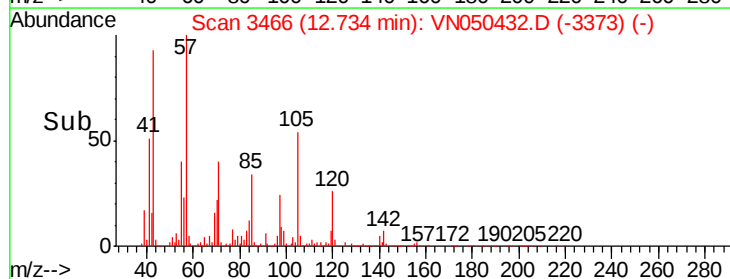
600000

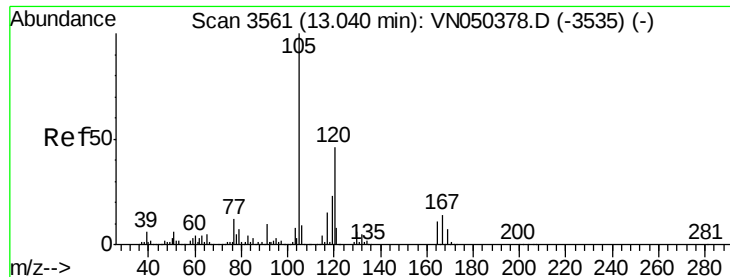
400000

200000

0

Time-->





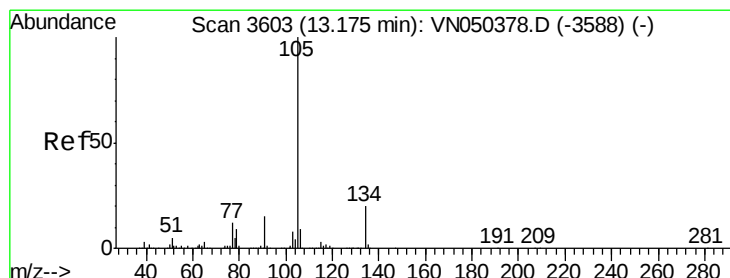
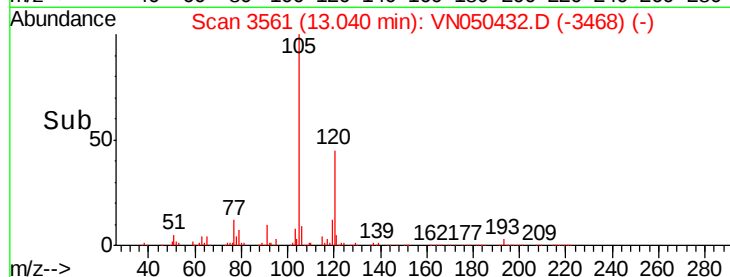
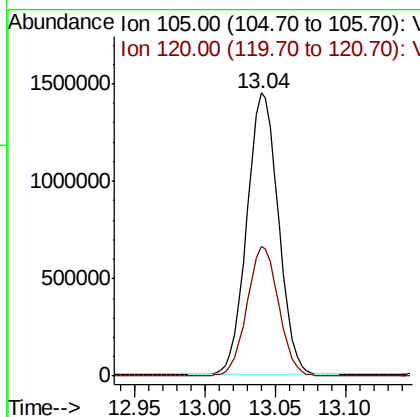
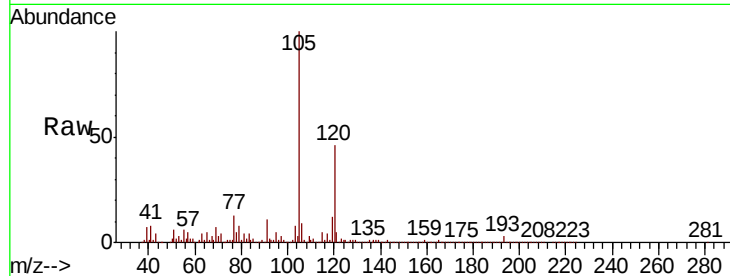
#84  
 1,2,4-Trimethylbenzene  
 Concen: 61.39 ug/l  
 RT: 13.04 min Scan# 3561  
 Delta R.T. -0.00 min  
 Lab File: VN050432.D  
 Acq: 7 Aug 2018 15:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-2ME

Tot Ion:105 Resp: 2271998  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 22.9 68.7

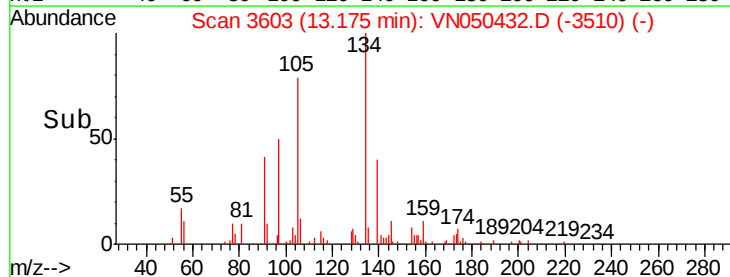
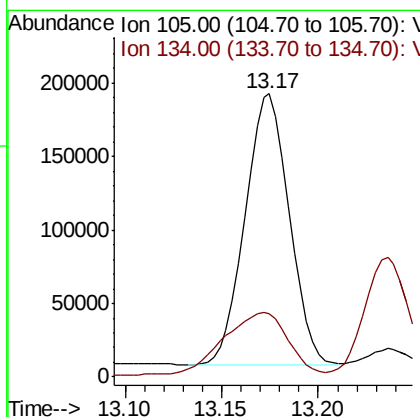
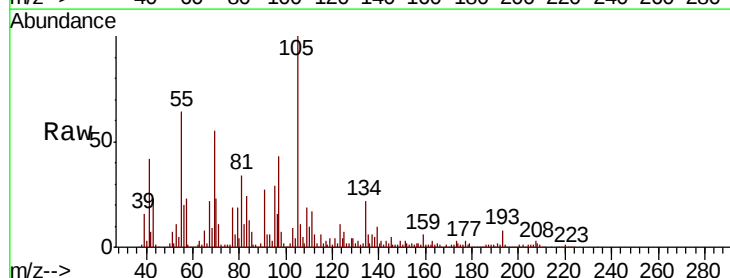
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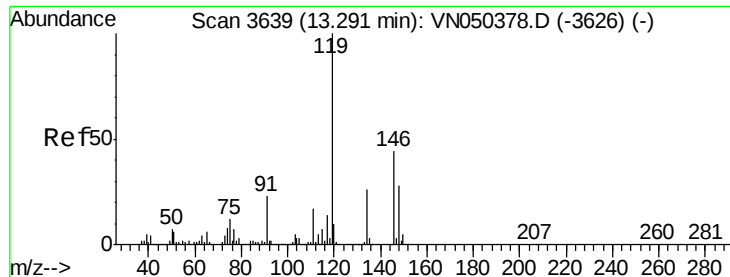
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#85  
 sec-Butylbenzene  
 Concen: 6.91 ug/l  
 RT: 13.17 min Scan# 3603  
 Delta R.T. -0.00 min  
 Lab File: VN050432.D  
 Acq: 7 Aug 2018 15:26

Tgt Ion:105 Resp: 293541  
 Ion Ratio Lower Upper  
 105 100  
 134 33.2 10.1 30.1#





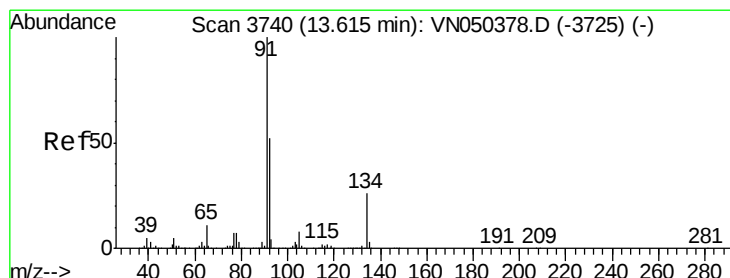
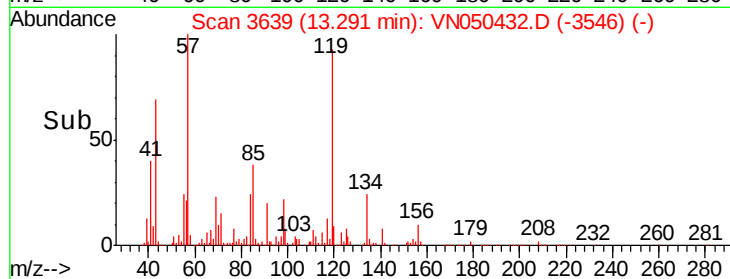
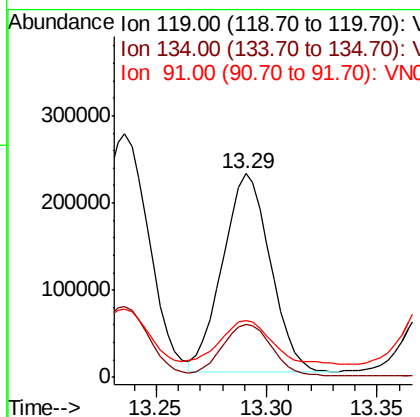
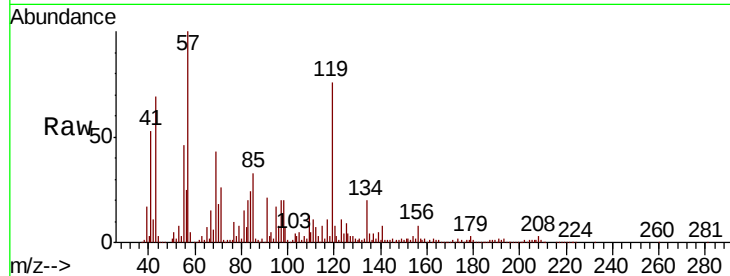
#86  
p-Isopropyltoluene  
Concen: 9.30 ug/l  
RT: 13.29 min Scan# 3639  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-2ME

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 338418 |       |       |
| 134     | 27.0  | 13.3   | 39.8  |       |
| 91      | 24.2  | 11.4   | 34.2  |       |

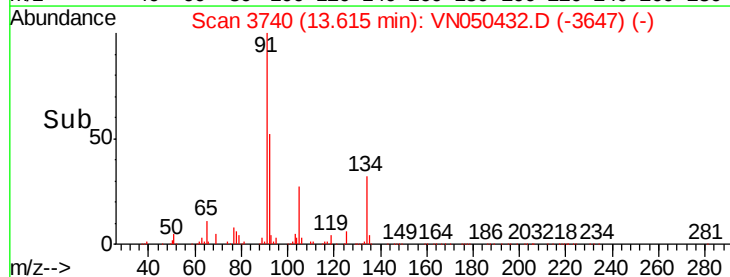
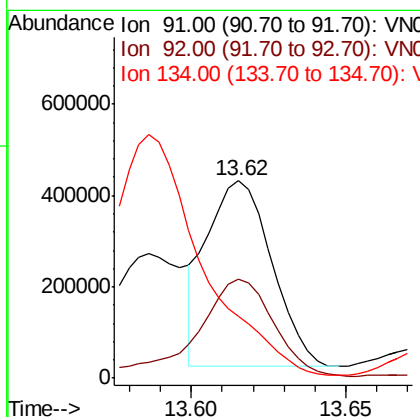
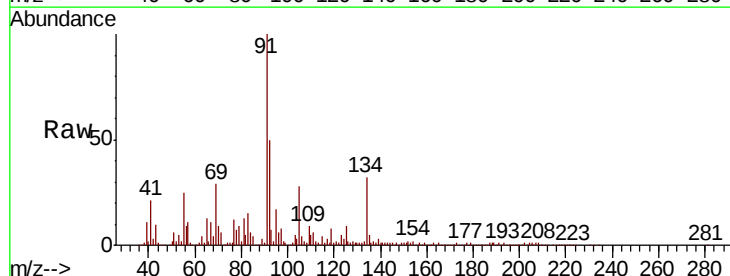
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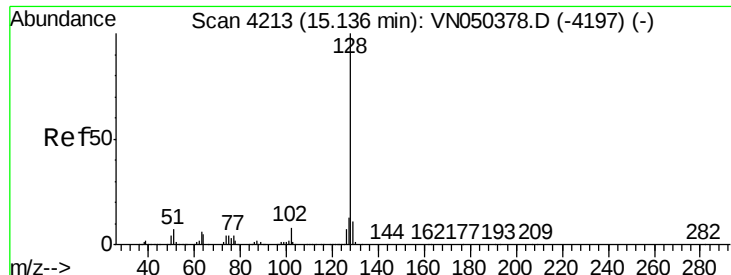
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#89  
n-Butylbenzene  
Concen: 19.26 ug/l  
RT: 13.62 min Scan# 3740  
Delta R.T. -0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 596893 |       |       |
| 92      | 61.4  | 25.8   | 77.4  |       |
| 134     | 0.0   | 12.8   | 38.4# |       |





#95  
Naphthalene  
Concen: 82.90 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN050432.D  
Acq: 7 Aug 2018 15:26

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-2ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 14.5  | 10.4  | 15.6  |
| 129     | 13.3  | 8.8   | 13.2  |

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