

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122118\  
 Data File : VN053102.D  
 Acq On : 21 Dec 2018 15:18  
 Operator : MD\SY  
 Sample : J6377-03ME  
 Misc : 2.80g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 12 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 P001-SD014-0006-01ME

Manual Integrations  
 APPROVED

MMDadoda  
 12/22/2018 10:06:35 AM

Quant Time: Jan 03 11:09:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response  | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|-----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.66   | 168  | 1140258   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59   | 114  | 1720251   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41  | 117  | 1567997   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35  | 152  | 743792    | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |           |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65   | 548664    | 47.42   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 94.84%  |          |
| 35) Dibromofluoromethane    | 7.59   | 113  | 443568    | 56.45   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 112.90% |          |
| 50) Toluene-d8              | 10.09  | 98   | 2118005   | 50.21   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 100.42% |          |
| 62) 4-Bromofluorobenzene    | 12.40  | 95   | 744319    | 50.26   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 100.52% |          |
| Target Compounds            |        |      |           |         |         |          |
|                             |        |      |           |         |         | Qvalue   |
| 31) Cyclohexane             | 7.65   | 56   | 650273    | 32.095  | ug/l    | 99       |
| 39) Methylcyclohexane       | 9.08   | 83   | 1107203   | 55.200  | ug/l    | 97       |
| 65) Chlorobenzene           | 11.44  | 112  | 763670    | 21.971  | ug/l    | 99       |
| 67) Ethyl Benzene           | 11.51  | 91   | 92308m    | 1.544   | ug/l    |          |
| 68) m/p-Xylenes             | 11.61  | 106  | 18212012m | 801.451 | ug/l    |          |
| 73) Isopropylbenzene        | 12.25  | 105  | 193046    | 3.317   | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.73  | 105  | 587188    | 12.379  | ug/l    | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.04  | 105  | 2172823   | 45.566  | ug/l    | 99       |
| 86) p-Isopropyltoluene      | 13.29  | 119  | 280854    | 5.728   | ug/l    | 100      |
| 87) 1,3-Dichlorobenzene     | 13.28  | 146  | 138448    | 5.171   | ug/l    | 99       |
| 88) 1,4-Dichlorobenzene     | 13.36  | 146  | 1710473   | 63.086  | ug/l    | 100      |
| 89) n-Butylbenzene          | 13.62  | 91   | 78802     | 1.868   | ug/l #  | 73       |
| 95) Naphthalene             | 15.14  | 128  | 411676    | 14.901  | ug/l    | 99       |

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

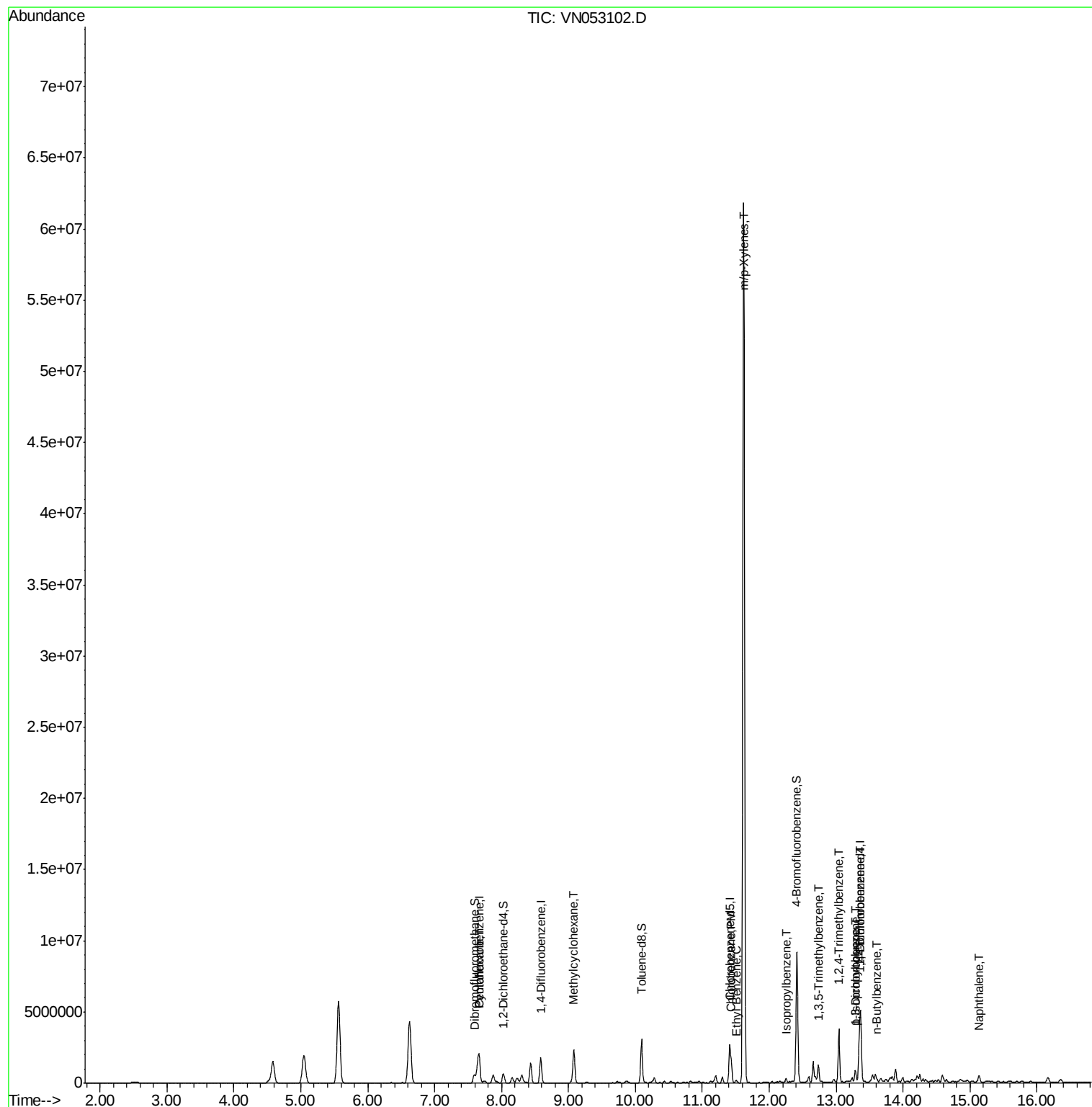
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122118\  
Data File : VN053102.D  
Acq On : 21 Dec 2018 15:18  
Operator : MD\SY  
Sample : J6377-03ME  
Misc : 2.80g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 12 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
P001-SD014-0006-01ME

Manual Integrations  
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12/22/2018 10:06:35 AM

Quant Time: Jan 03 11:09:20 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

Instrument :

MSVOA\_N

ClientSampleId :

P001-SD014-0006-01ME

Tgt Ion:168 Resp: 1140258

Ion Ratio Lower Upper

168 100

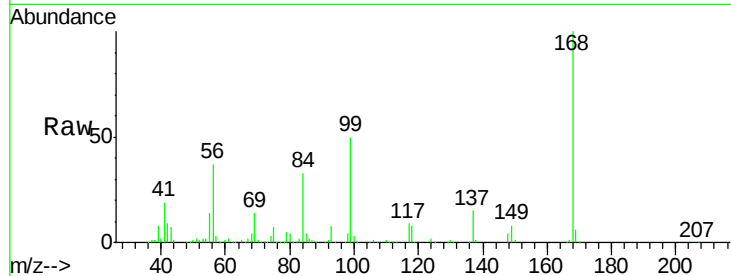
99 49.5 40.2 60.2

Manual Integrations

APPROVED

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12/22/2018 10:06:35 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

500000

400000

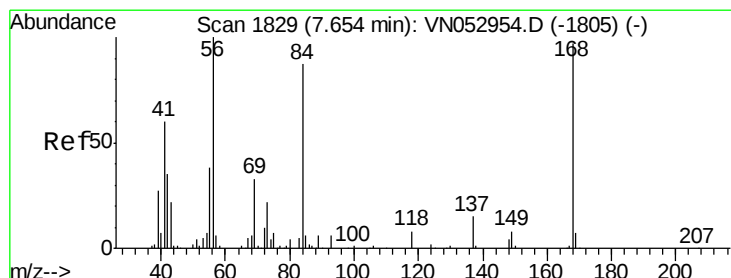
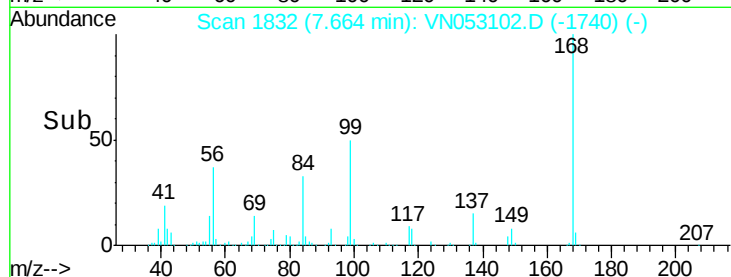
300000

200000

100000

0

Time-->



#31

Cyclohexane

Concen: 32.095 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

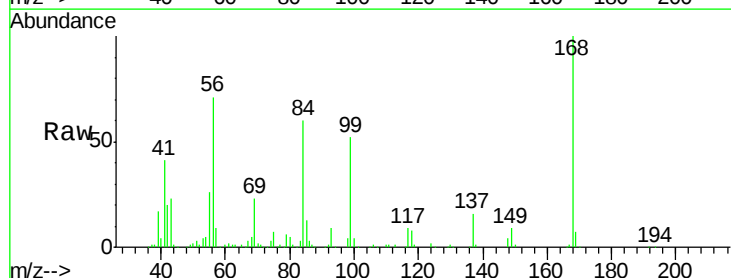
Tgt Ion: 56 Resp: 650273

Ion Ratio Lower Upper

56 100

69 32.2 26.6 39.8

84 84.5 68.4 102.6



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

7.65

300000

250000

200000

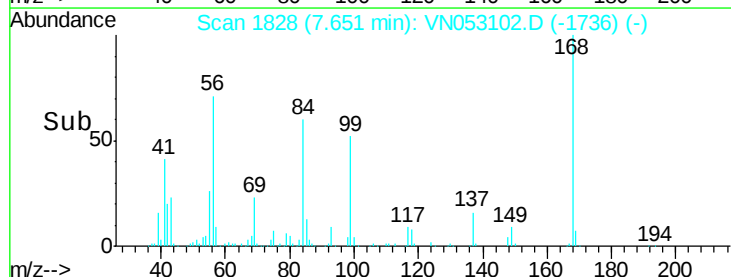
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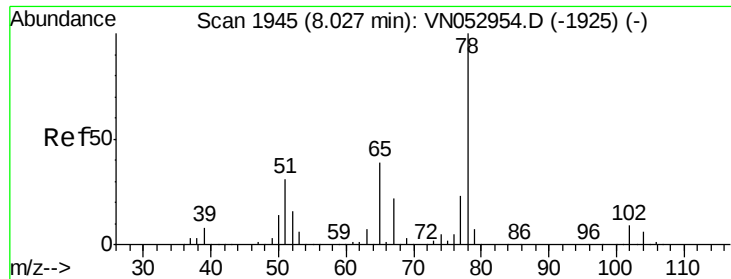
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50000

0

Time-->





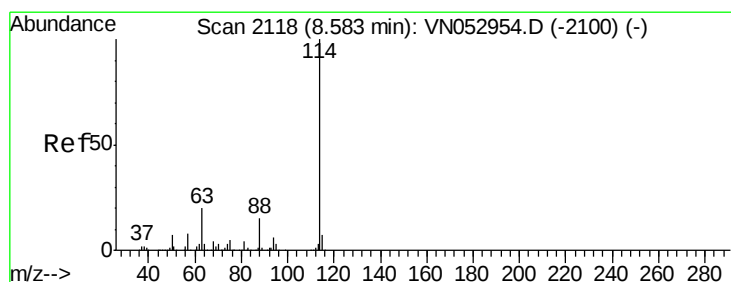
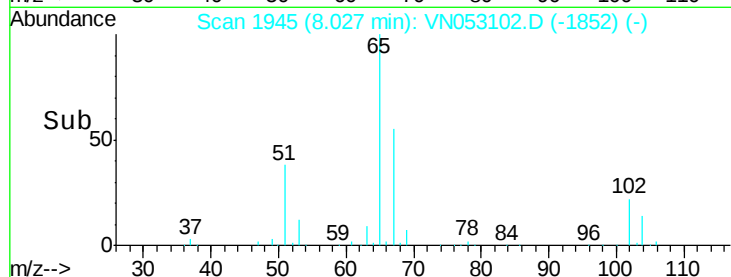
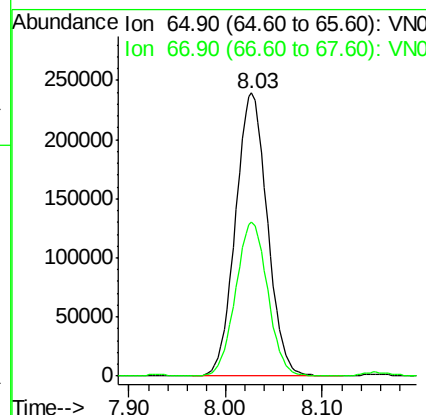
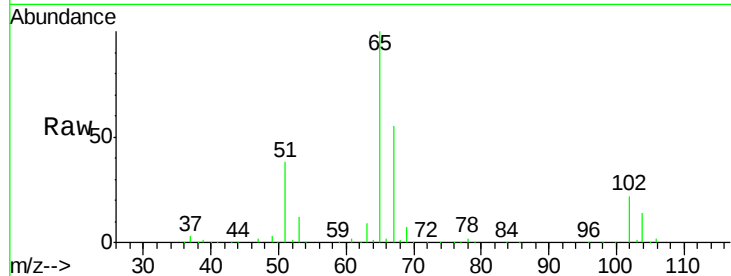
#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN053102.D  
 Acq: 21 Dec 2018 15:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 P001-SD014-0006-01ME

Tgt Ion: 65 Resp: 548664  
 Ion Ratio Lower Upper  
 65 100  
 67 54.4 0.0 110.4

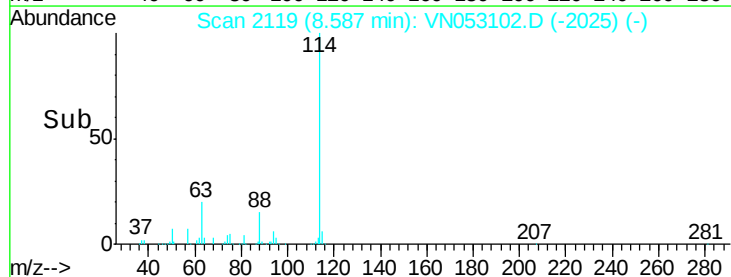
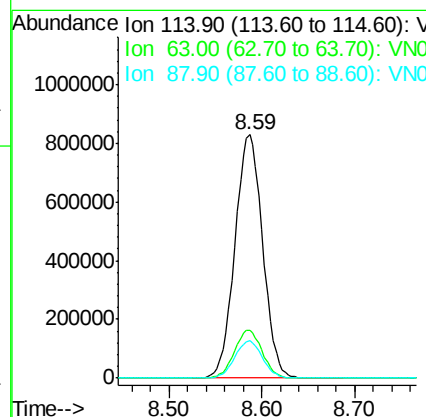
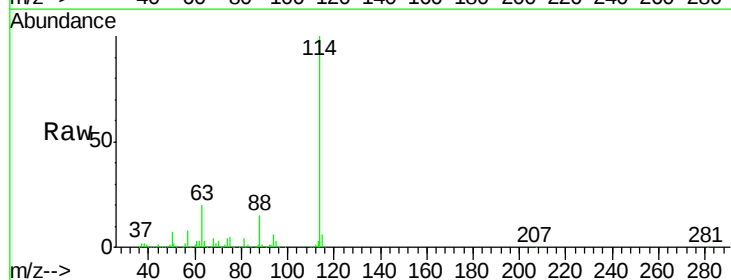
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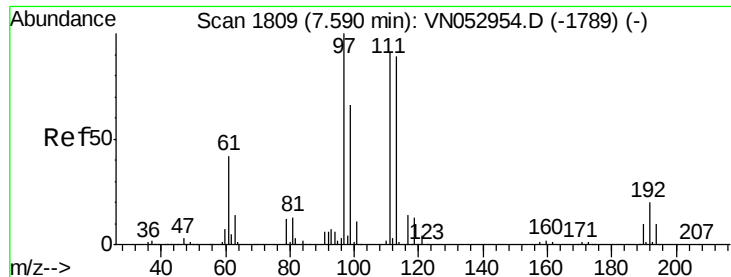
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053102.D  
 Acq: 21 Dec 2018 15:18

Tgt Ion: 114 Resp: 1720251  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 39.8  
 88 15.2 0.0 31.0





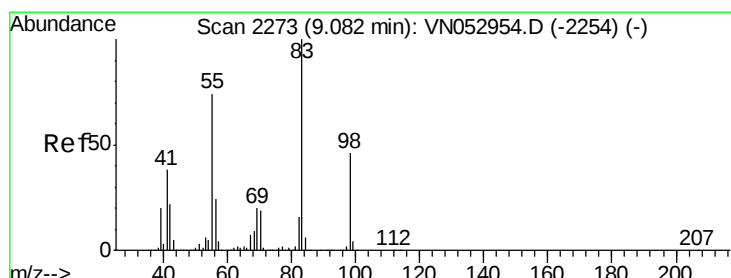
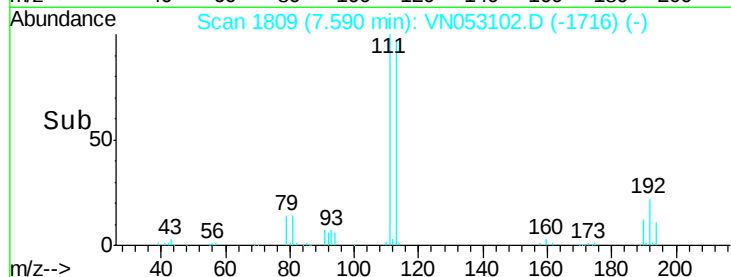
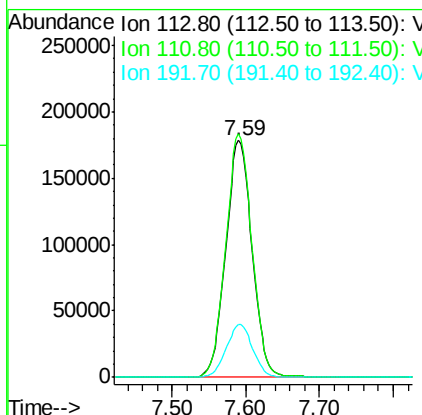
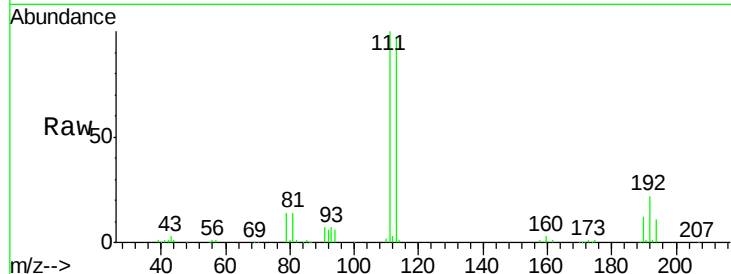
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. -0.00 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
P001-SD014-0006-01ME

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 443568 |       |       |
| 111     | 102.3 | 83.0   | 124.4 |       |
| 192     | 22.3  | 17.5   | 26.3  |       |

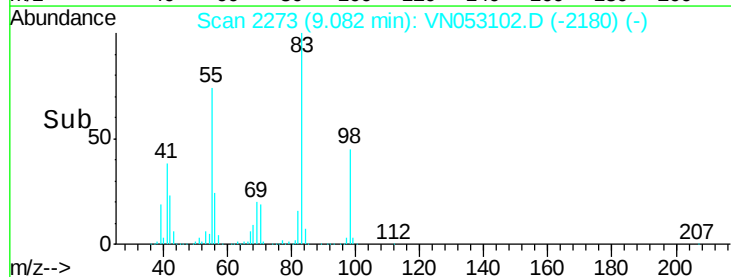
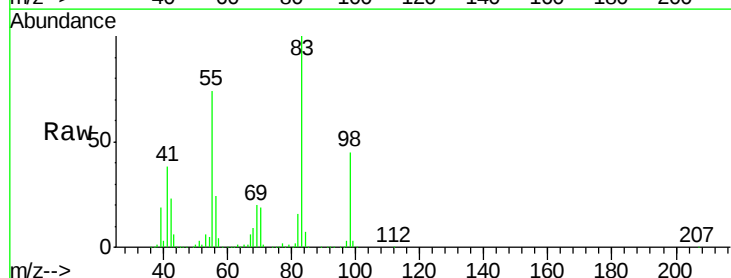
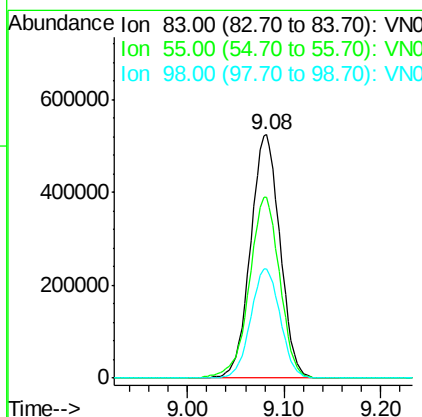
Manual Integrations  
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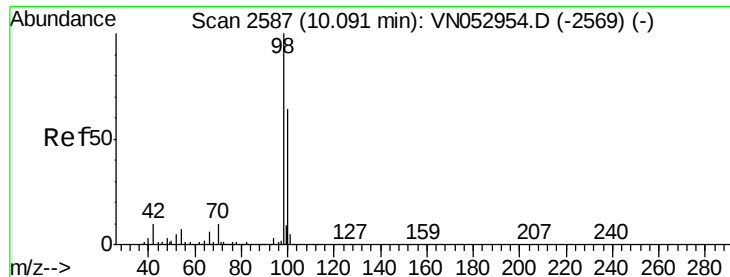
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12/22/2018 10:06:35 AM



#39  
Methylcyclohexane  
Concen: 55.200 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. -0.00 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 83      | 100   | 1107203 |       |       |
| 55      | 74.1  | 61.3    | 91.9  |       |
| 98      | 45.0  | 37.0    | 55.4  |       |





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

Instrument :

MSVOA\_N

ClientSampleId :

P001-SD014-0006-01ME

Tgt Ion: 98 Resp: 2118005

Ion Ratio Lower Upper

98 100

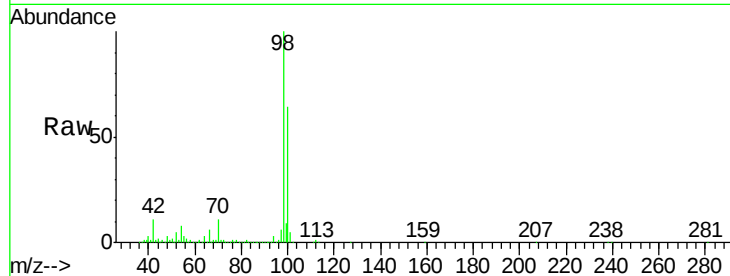
100 64.0 51.6 77.4

Manual Integrations

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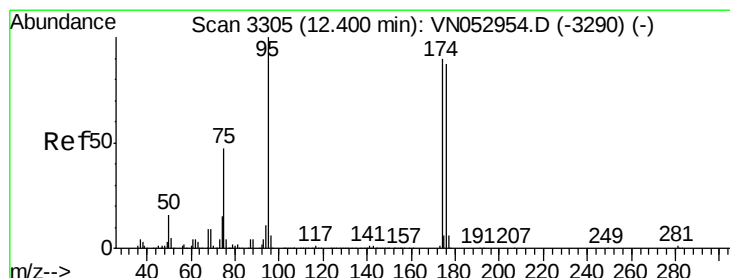
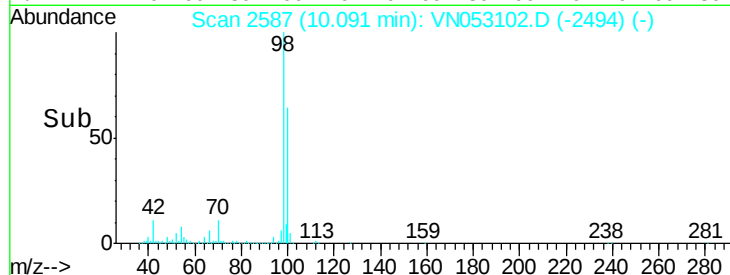
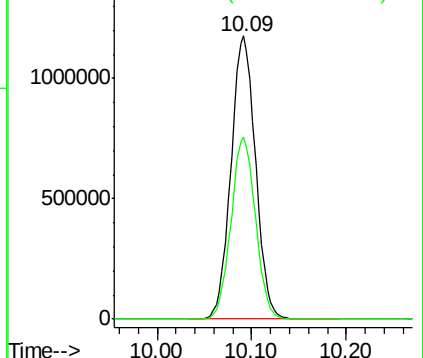
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12/22/2018 10:06:35 AM



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

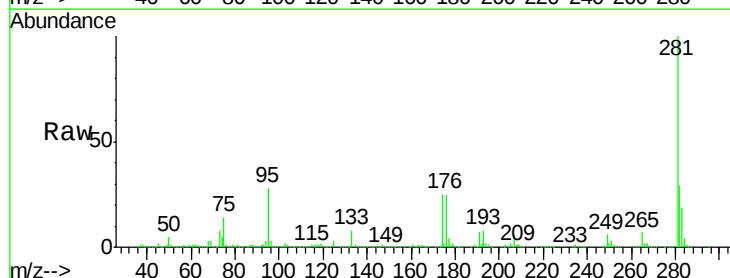
Tgt Ion: 95 Resp: 744319

Ion Ratio Lower Upper

95 100

174 89.4 0.0 178.8

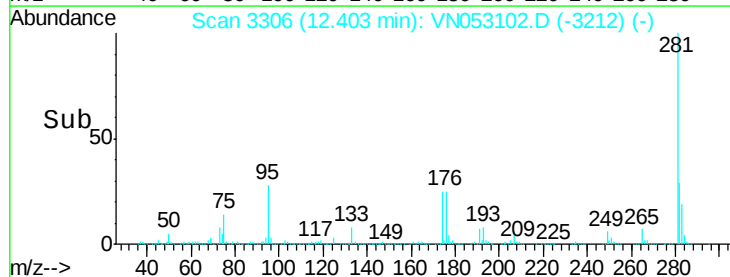
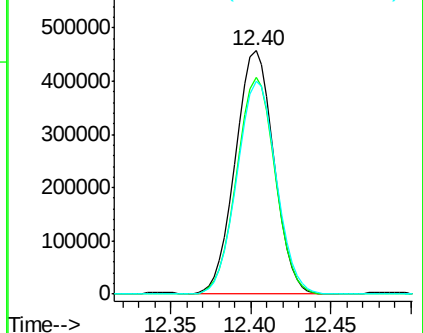
176 89.8 0.0 173.8

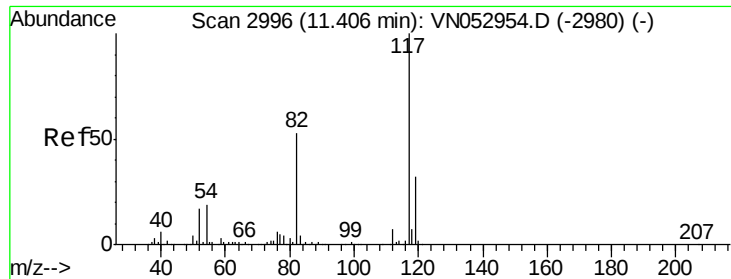


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





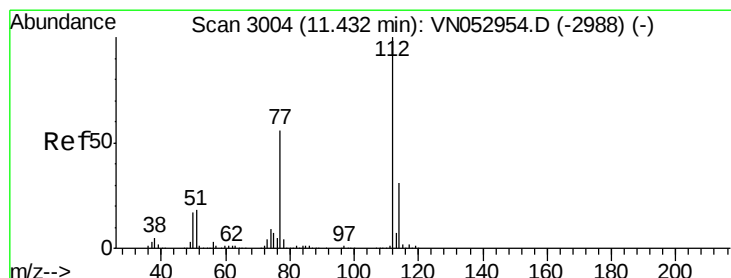
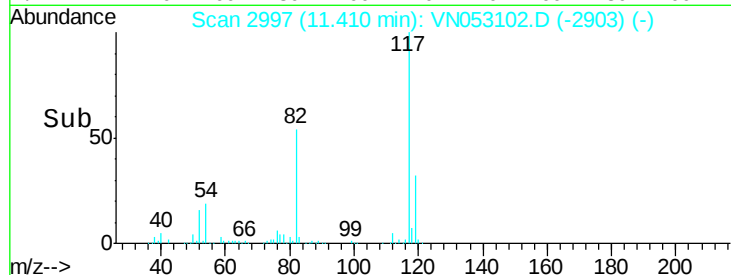
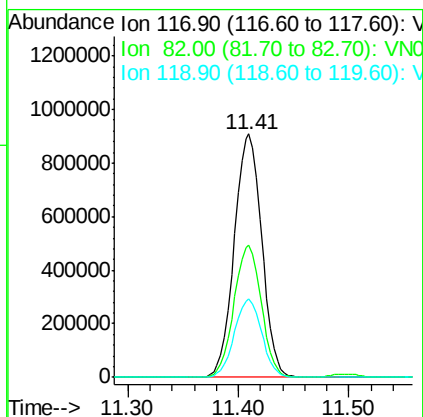
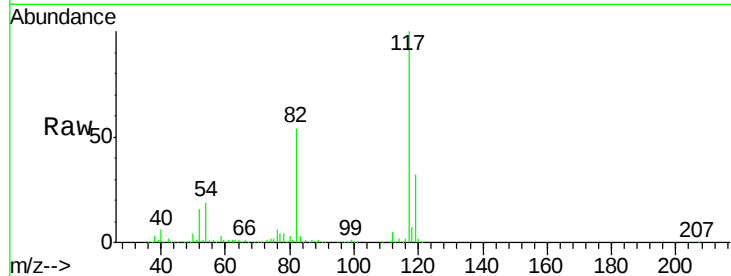
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
P001-SD014-0006-01ME

Tgt Ion:117 Resp: 1567997  
Ion Ratio Lower Upper  
117 100  
82 54.2 42.8 64.2  
119 32.0 25.5 38.3

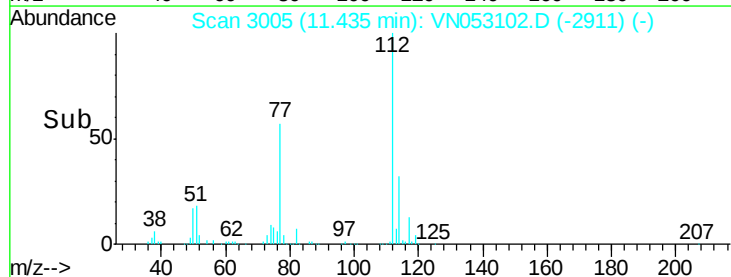
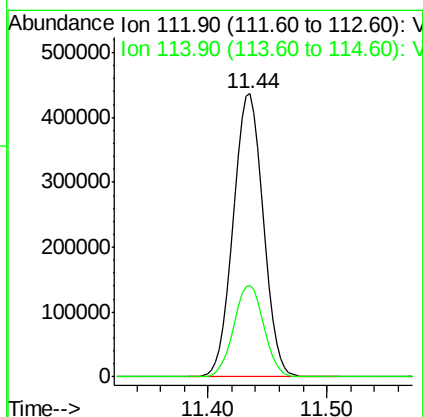
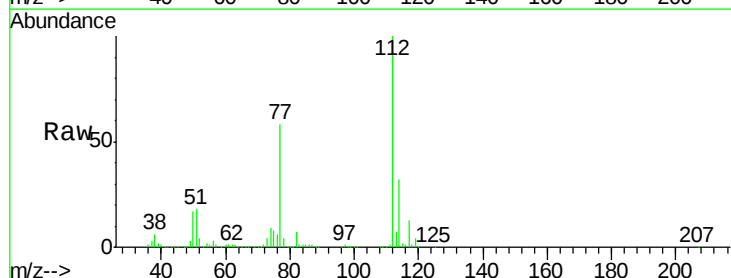
Manual Integrations  
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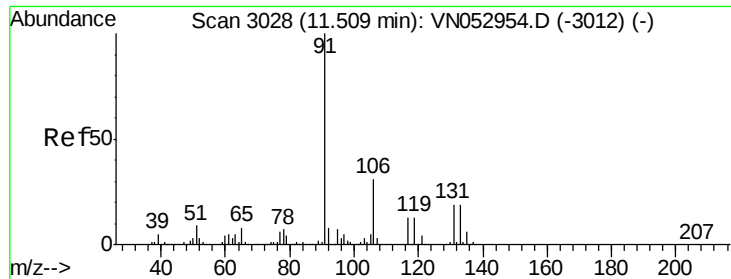
MMDadoda  
12/22/2018 10:06:35 AM



#65  
Chlorobenzene  
Concen: 21.971 ug/l  
RT: 11.44 min Scan# 3005  
Delta R.T. 0.00 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

Tgt Ion:112 Resp: 763670  
Ion Ratio Lower Upper  
112 100  
114 32.4 25.5 38.3





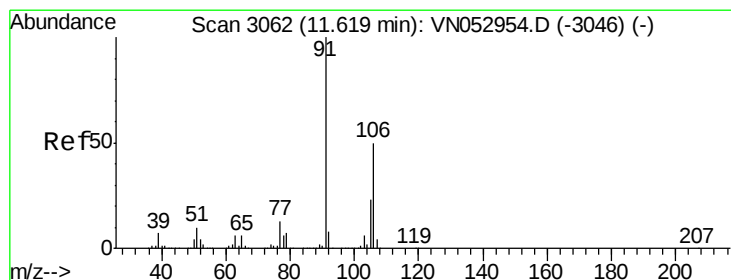
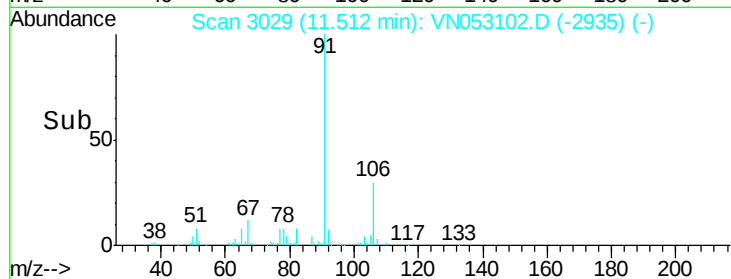
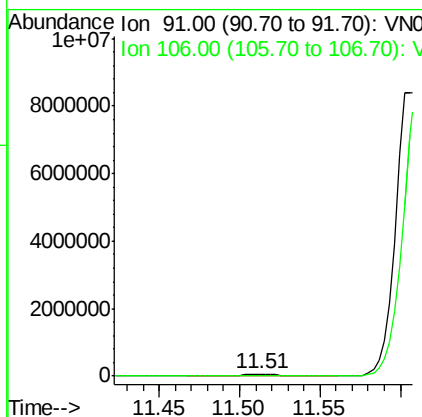
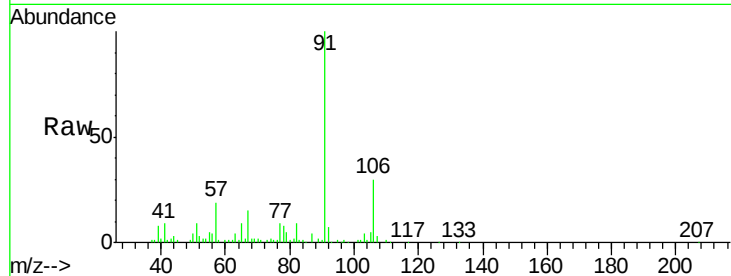
#67  
Ethyl Benzene  
Concen: 1.544 ug/l m  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
P001-SD014-0006-01ME

Tgt Ion: 91 Resp: 92308  
Ion Ratio Lower Upper  
91 100  
106 29.7 24.9 37.3

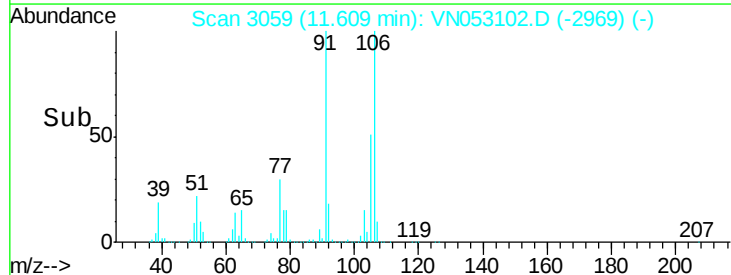
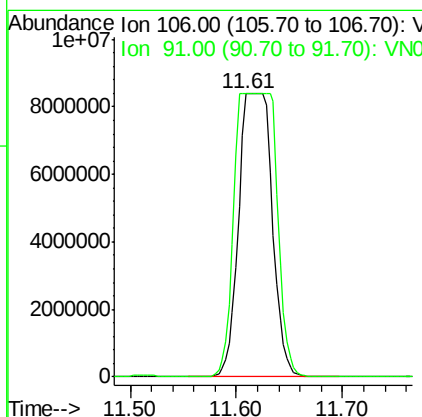
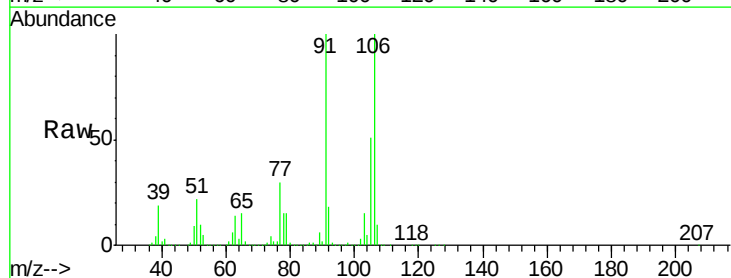
Manual Integrations  
APPROVED

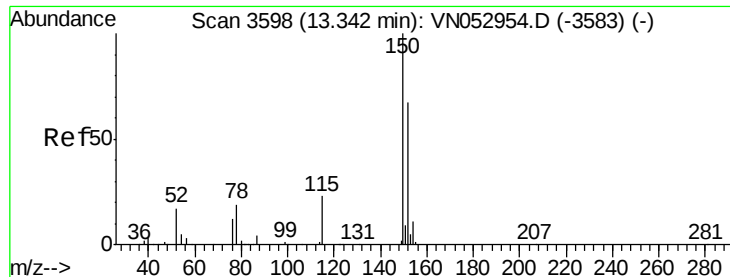
MMDadoda  
12/22/2018 10:06:35 AM



#68  
m/p-Xylenes  
Concen: 801.451 ug/l m  
RT: 11.61 min Scan# 3059  
Delta R.T. -0.01 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

Tgt Ion: 106 Resp: 18212012  
Ion Ratio Lower Upper  
106 100  
91 0.0 162.2 243.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

Instrument :

MSVOA\_N

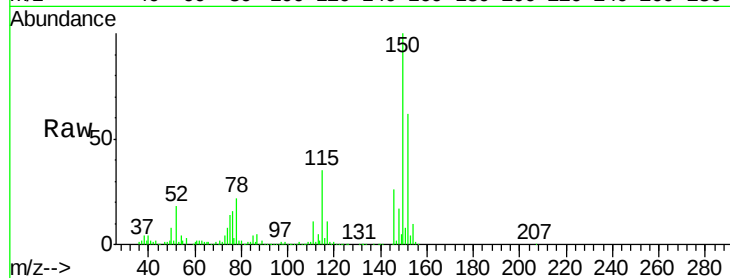
ClientSampleId :

P001-SD014-0006-01ME

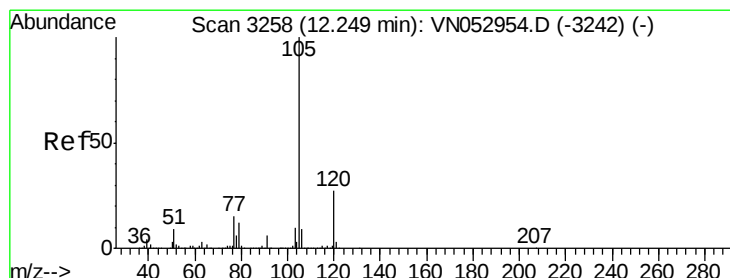
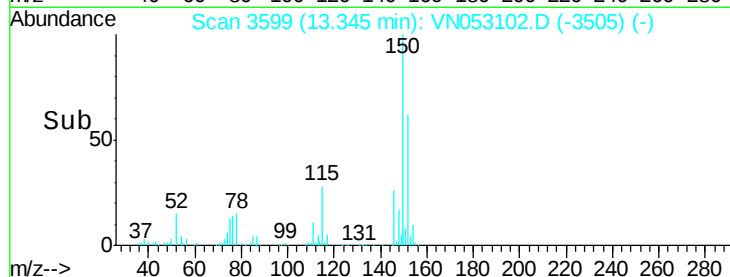
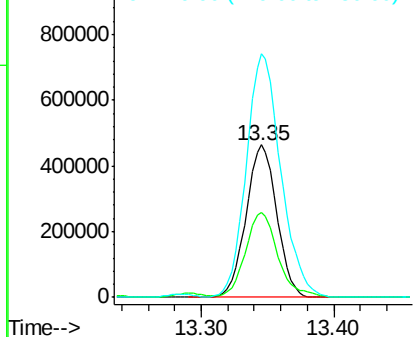
|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 152   | Resp: | 743792 |
| Ion | Ratio | Lower | Upper |        |
| 152 | 100   |       |       |        |
| 115 | 59.0  | 28.3  | 85.0  |        |
| 150 | 179.7 | 0.0   | 347.8 |        |

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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: 3.317 ug/l

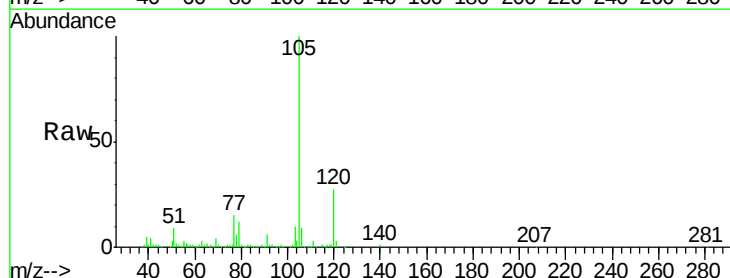
RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

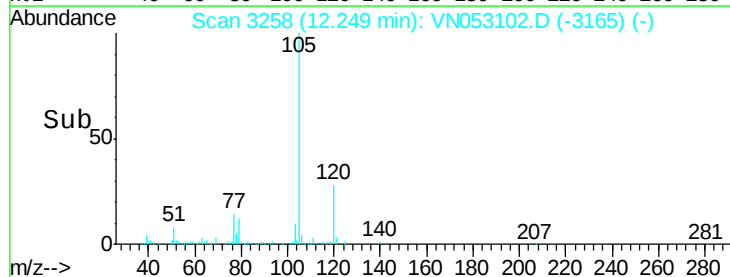
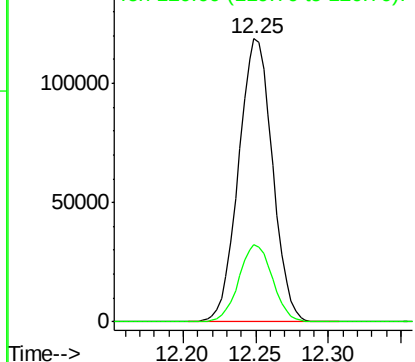
Lab File: VN053102.D

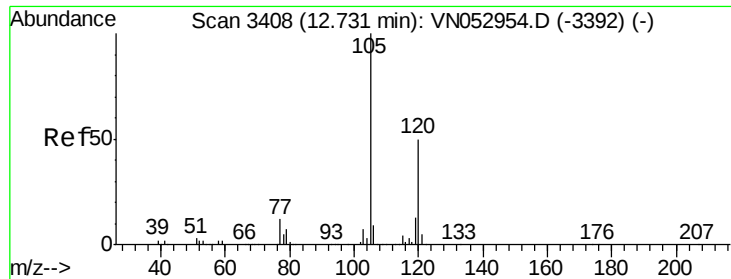
Acq: 21 Dec 2018 15:18

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 105   | Resp: | 193046 |
| Ion | Ratio | Lower | Upper |        |
| 105 | 100   |       |       |        |
| 120 | 27.0  | 13.3  | 39.9  |        |



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





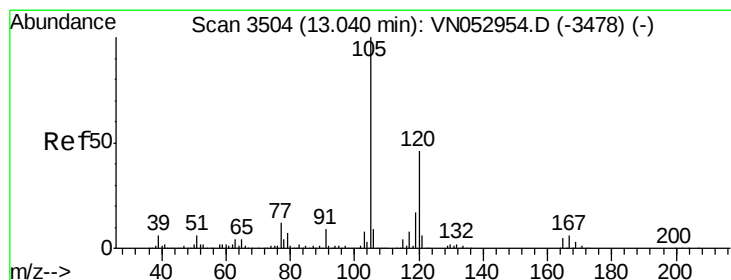
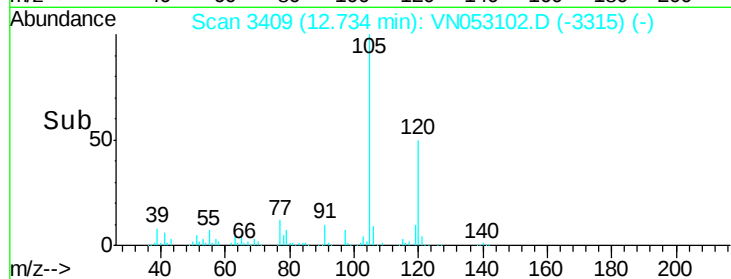
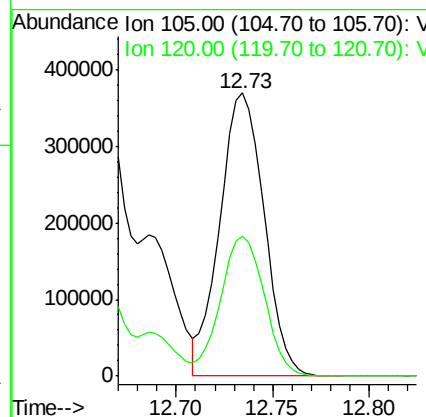
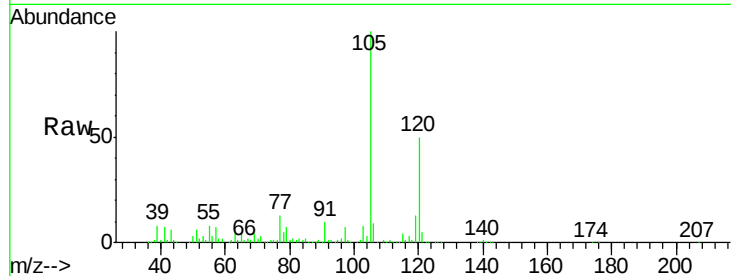
#80  
 1,3,5-Trimethylbenzene  
 Concen: 12.379 ug/l  
 RT: 12.73 min Scan# 3409  
 Delta R.T. 0.00 min  
 Lab File: VN053102.D  
 Acq: 21 Dec 2018 15:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 P001-SD014-0006-01ME

Tgt Ion:105 Resp: 587188  
 Ion Ratio Lower Upper  
 105 100  
 120 49.1 24.4 73.2

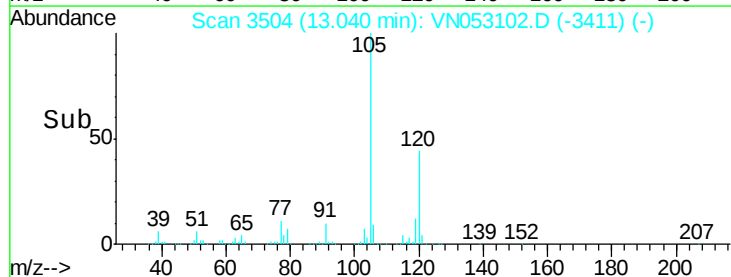
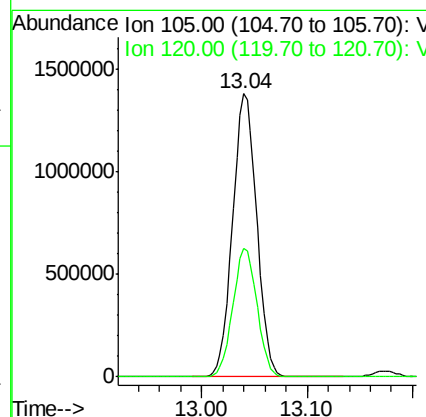
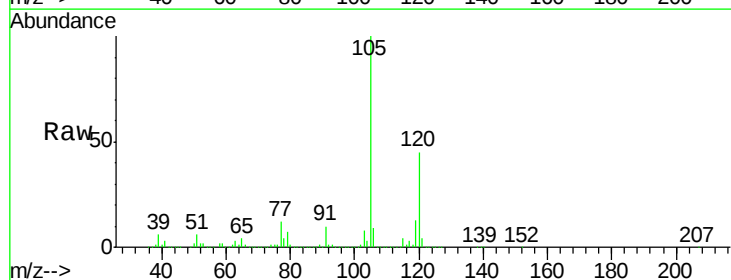
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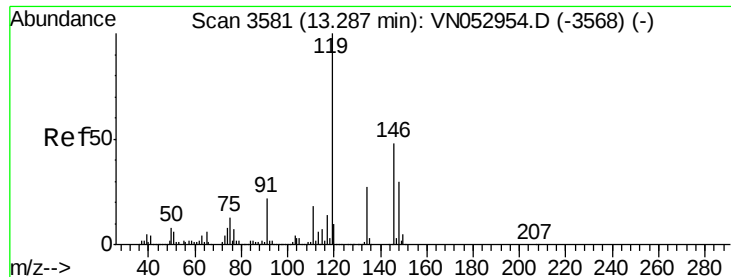
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#84  
 1,2,4-Trimethylbenzene  
 Concen: 45.566 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN053102.D  
 Acq: 21 Dec 2018 15:18

Tgt Ion:105 Resp: 2172823  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 22.9 68.8





#86

p-Isopropyltoluene

Concen: 5.728 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

Instrument :

MSVOA\_N

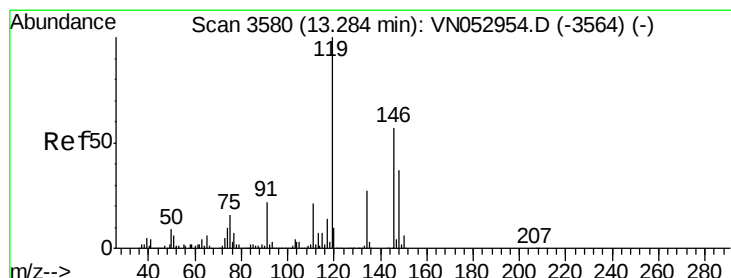
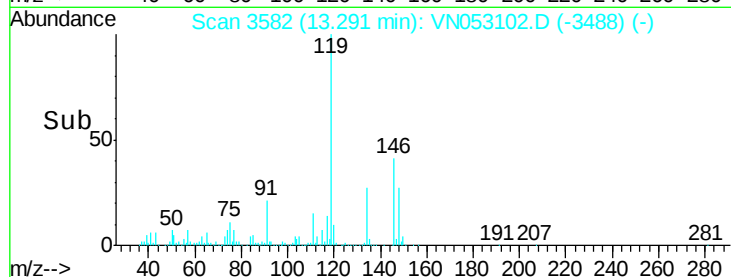
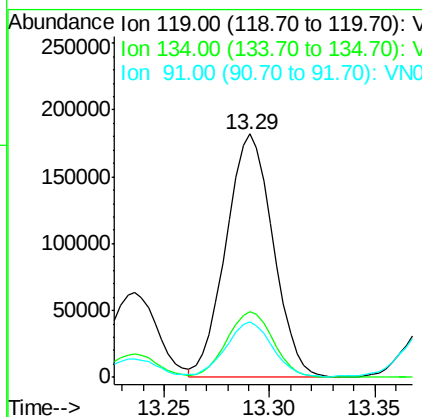
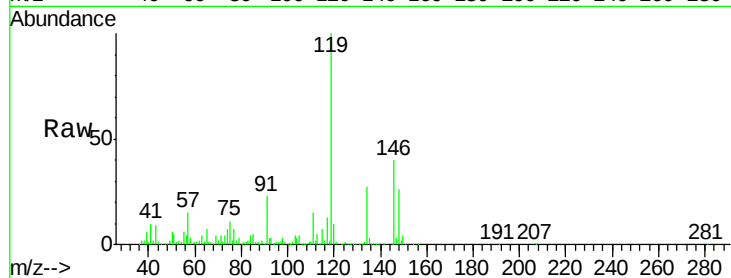
ClientSampleId :

P001-SD014-0006-01ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 119   | Resp: | 280854 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 134       | 26.5  | 13.4  | 40.2   |
| 91        | 22.0  | 11.1  | 33.3   |

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#87

1,3-Dichlorobenzene

Concen: 5.171 ug/l

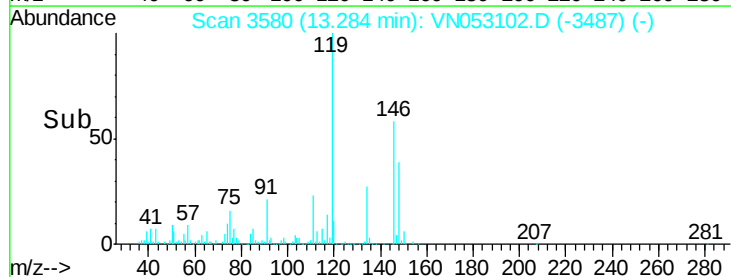
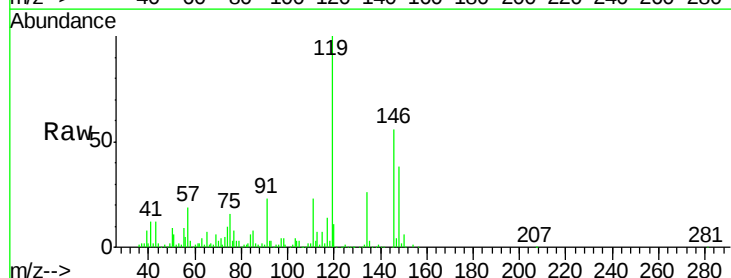
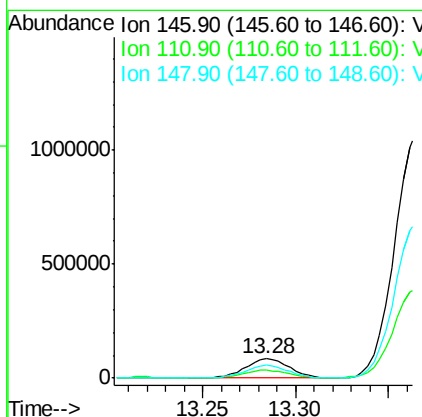
RT: 13.28 min Scan# 3580

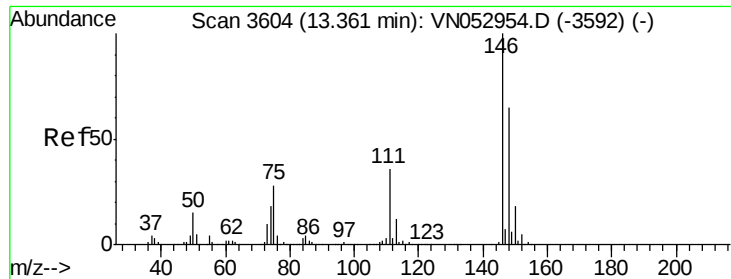
Delta R.T. -0.00 min

Lab File: VN053102.D

Acq: 21 Dec 2018 15:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 138448 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 38.6  | 19.1  | 57.1   |
| 148       | 64.8  | 32.0  | 96.0   |





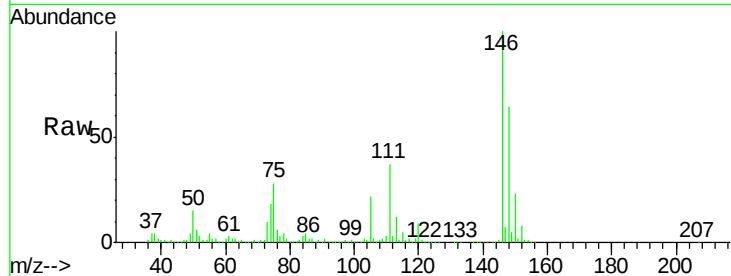
#88  
 1,4-Dichlorobenzene  
 Concen: 63.086 ug/l  
 RT: 13.36 min Scan# 3605  
 Delta R.T. 0.00 min  
 Lab File: VN053102.D  
 Acq: 21 Dec 2018 15:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 P001-SD014-0006-01ME

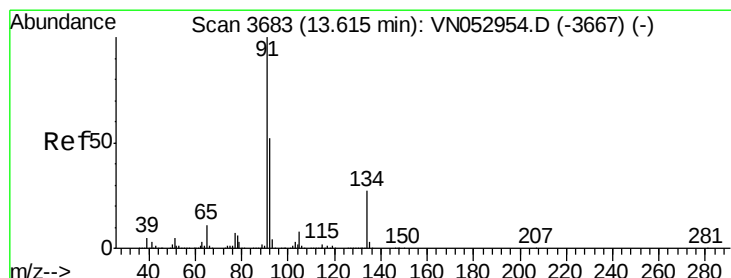
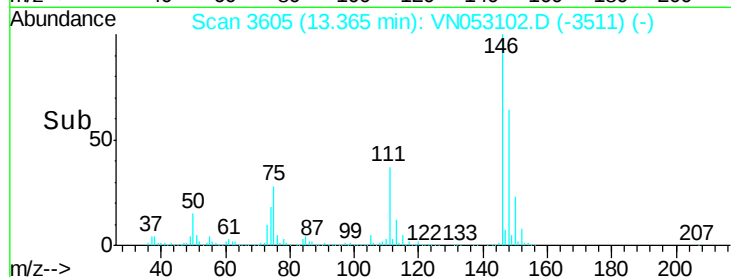
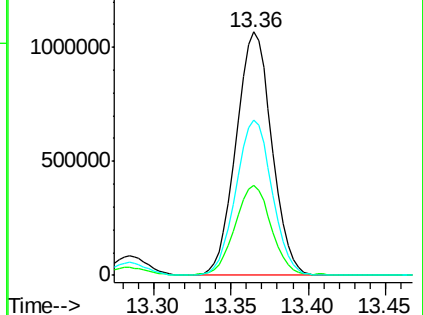
Tgt Ion: 146 Resp: 1710473  
 Ion Ratio Lower Upper  
 146 100  
 111 37.5 18.6 55.8  
 148 64.5 32.1 96.5

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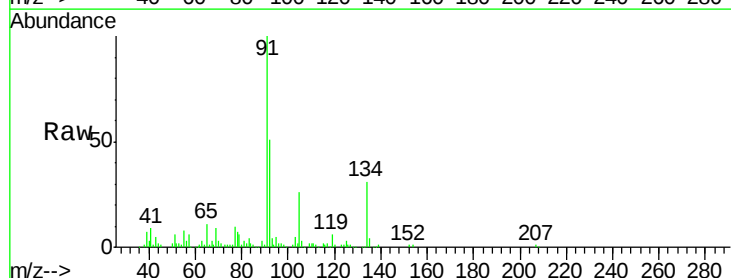


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

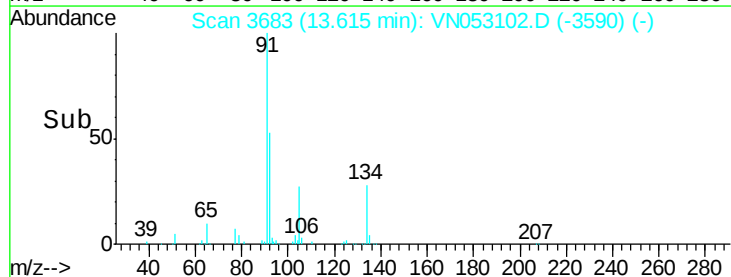
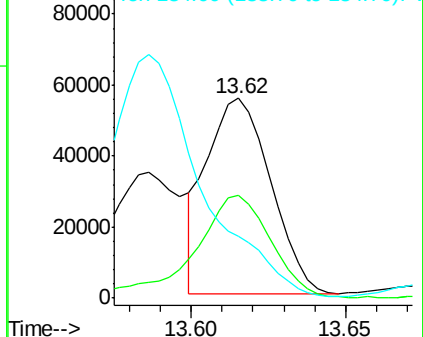


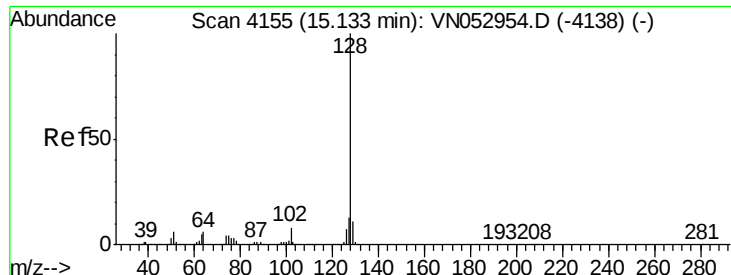
#89  
 n-Butylbenzene  
 Concen: 1.868 ug/l  
 RT: 13.62 min Scan# 3683  
 Delta R.T. -0.00 min  
 Lab File: VN053102.D  
 Acq: 21 Dec 2018 15:18

Tgt Ion: 91 Resp: 78802  
 Ion Ratio Lower Upper  
 91 100  
 92 62.9 26.3 78.9  
 134 0.0 13.3 39.8#



Abundance Ion 91.00 (90.70 to 91.70): V  
 Ion 92.00 (91.70 to 92.70): V  
 Ion 134.00 (133.70 to 134.70): V





#95  
Naphthalene  
Concen: 14.901 ug/l  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.00 min  
Lab File: VN053102.D  
Acq: 21 Dec 2018 15:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
P001-SD014-0006-01ME

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 128 | 100  |       |       |       |
| 127 | 13.3 | 10.2  | 15.4  |       |
| 129 | 10.9 | 8.6   | 13.0  |       |

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