

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\  
 Data File : VN059338.D  
 Acq On : 21 Nov 2019 16:12  
 Operator : JC/SP  
 Sample : K5957-02ME  
 Misc : 5.85µ/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1-(17-20)ME

Manual Integrations  
 APPROVED

MMDadoda  
 11/22/2019 3:12:31 PM

Quant Time: Nov 22 10:44:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112019W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 21 08:44:45 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.64  | 168  | 349747   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 535373   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 475759   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 407104   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 196286   | 46.77   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 93.54%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 156176   | 48.62   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 97.24%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 740276   | 57.98   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 115.96% |          |
| 62) 4-Bromofluorobenzene    | 12.39 | 95   | 998424   | 223.63  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 447.26% |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 31) Cyclohexane             | 7.63  | 56   | 38057    | 5.150   | ug/l #  | 91       |
| 39) Methylcyclohexane       | 9.07  | 83   | 255432   | 38.326  | ug/l    | 98       |
| 67) Ethyl Benzene           | 11.51 | 91   | 1558570  | 85.329  | ug/l    | 100      |
| 68) m/p-Xylenes             | 11.63 | 106  | 1354054  | 199.506 | ug/l    | 98       |
| 73) Isopropylbenzene        | 12.25 | 105  | 4587083  | 137.546 | ug/l    | 86       |
| 78) n-propylbenzene         | 12.60 | 91   | 7616554  | 201.622 | ug/l #  | 47       |
| 80) 1,3,5-Trimethylbenzene  | 12.69 | 105  | 7536813  | 268.840 | ug/l    | 84       |
| 83) tert-Butylbenzene       | 13.00 | 119  | 1066168  | 45.029  | ug/l    | 92       |
| 84) 1,2,4-Trimethylbenzene  | 13.05 | 105  | 11549461 | 420.561 | ug/l #  | 42       |
| 85) sec-Butylbenzene        | 13.18 | 105  | 5798334  | 182.204 | ug/l #  | 32       |
| 86) p-Isopropyltoluene      | 13.29 | 119  | 5495204m | 194.052 | ug/l    |          |
| 89) n-Butylbenzene          | 13.62 | 91   | 6262034  | 252.077 | ug/l #  | 50       |
| 95) Naphthalene             | 15.13 | 128  | 1618896  | 66.343  | ug/l    | 100      |

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

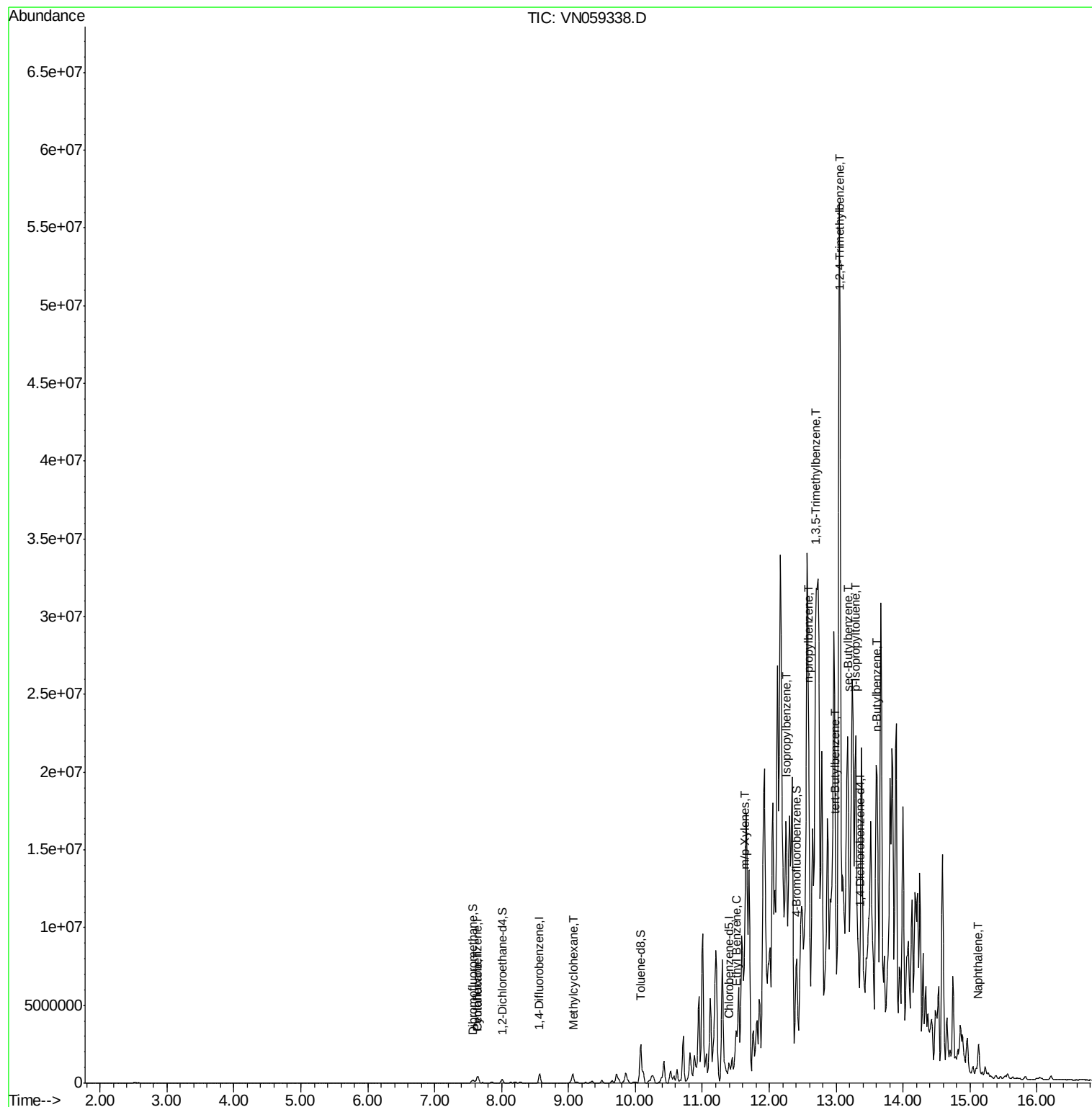
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN112119\  
Data File : VN059338.D  
Acq On : 21 Nov 2019 16:12  
Operator : JC/SP  
Sample : K5957-02ME  
Misc : 5.85g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 12 Sample Multiplier: 1

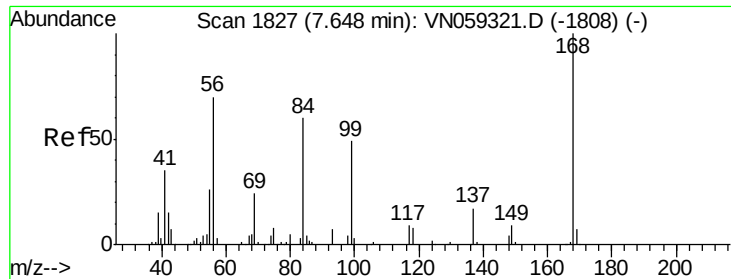
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1-(17-20)ME

Manual Integrations  
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Quant Time: Nov 22 10:44:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112019W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 21 08:44:45 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.01 min

Lab File: VN059338.D

Acq: 21 Nov 2019 16:12

Instrument :

MSVOA\_N

ClientSampleId :

MW-1-(17-20)ME

Tot Ion:168 Resp: 349747

Ion Ratio Lower Upper

168 100

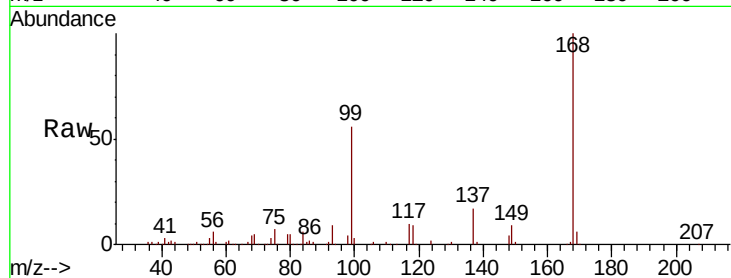
99 56.0 44.6 66.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

150000

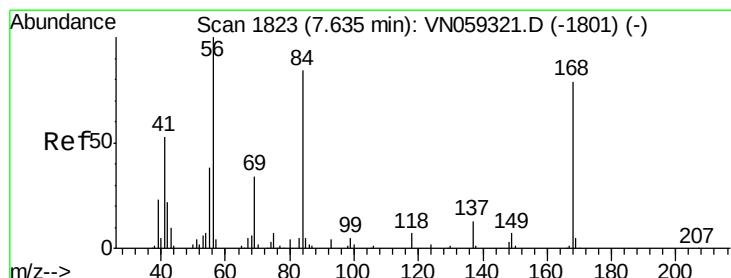
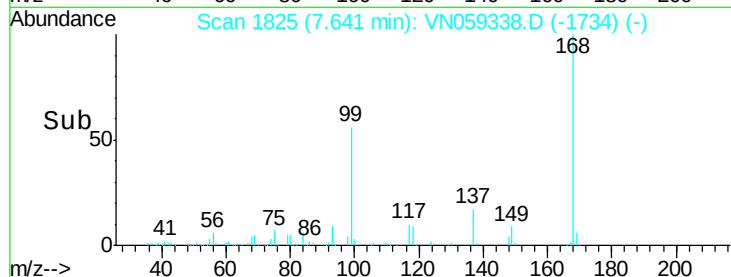
100000

50000

0

7.60 7.70

Time-->



#31

Cyclohexane

Concen: 5.150 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VN059338.D

Acq: 21 Nov 2019 16:12

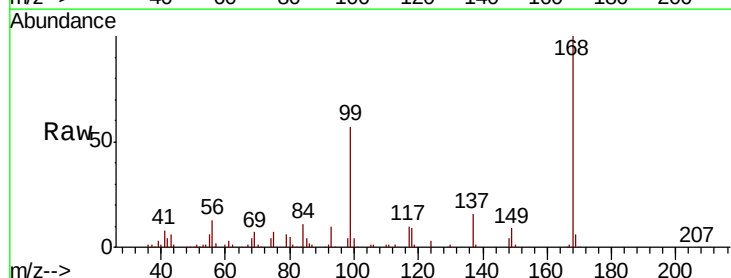
Tgt Ion: 56 Resp: 38057

Ion Ratio Lower Upper

56 100

69 51.8 26.6 40.0#

84 83.7 67.0 100.4



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

7.63

15000

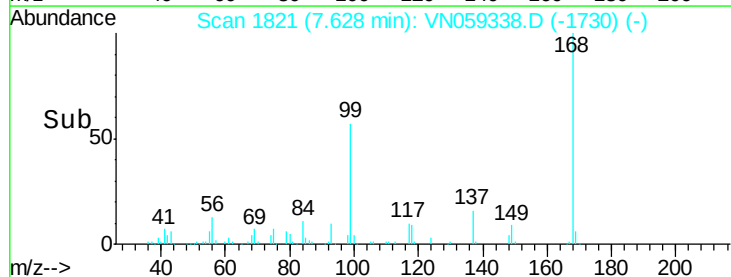
10000

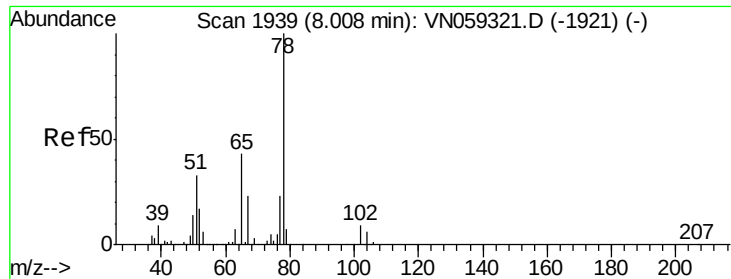
5000

0

7.55 7.60 7.65 7.70

Time-->





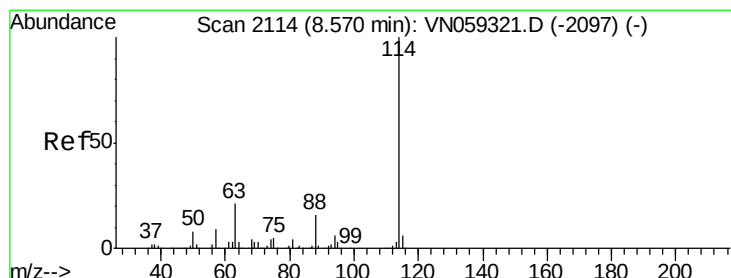
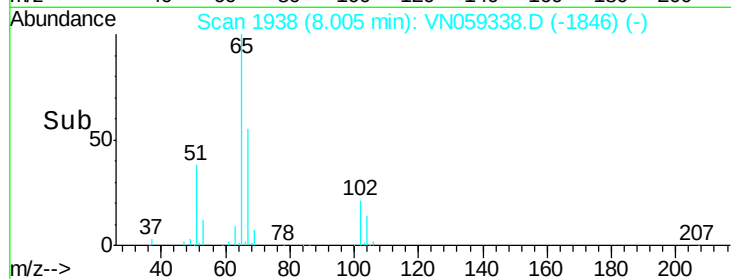
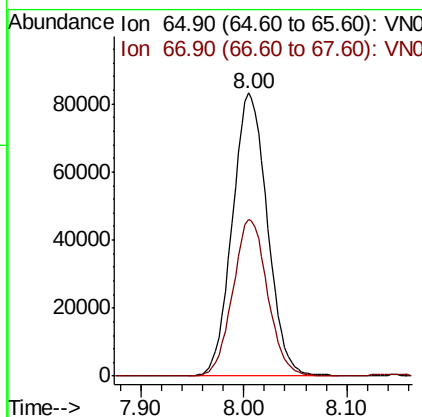
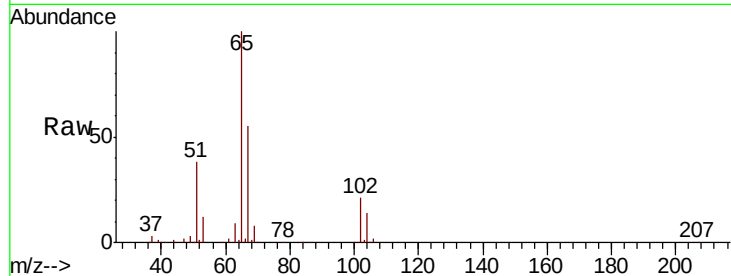
#33  
 1,2-Dichloroethane-d4  
 Concen: 46.775 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. -0.00 min  
 Lab File: VN059338.D  
 Acq: 21 Nov 2019 16:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1-(17-20)ME

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 196286 |       |       |
| 67      | 55.0  | 0.0    | 109.4 |       |

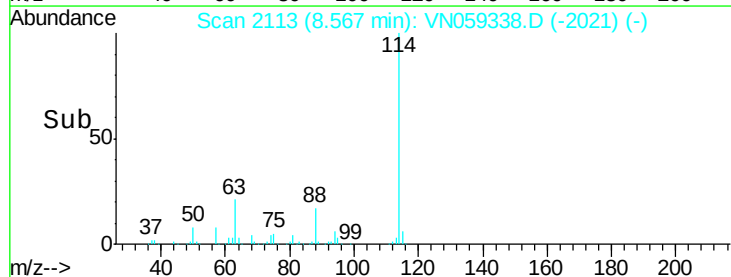
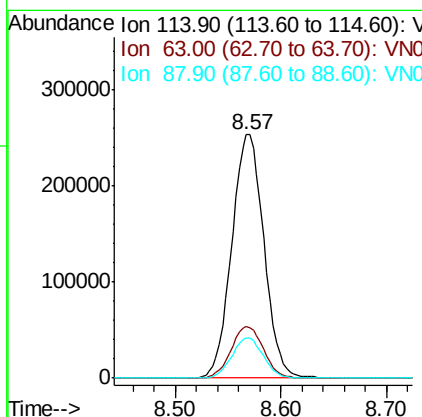
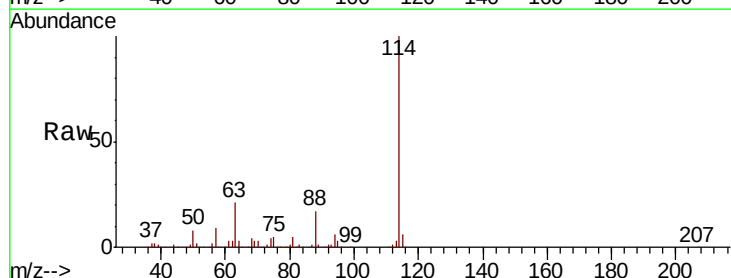
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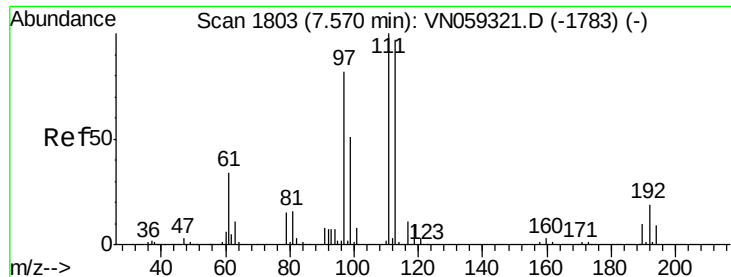
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059338.D  
 Acq: 21 Nov 2019 16:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 535373 |       |       |
| 63      | 21.1  | 0.0    | 42.2  |       |
| 88      | 16.6  | 0.0    | 32.2  |       |





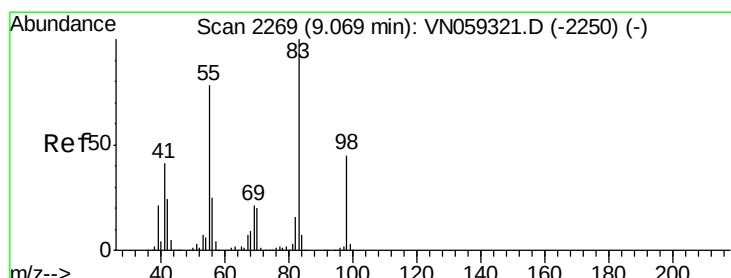
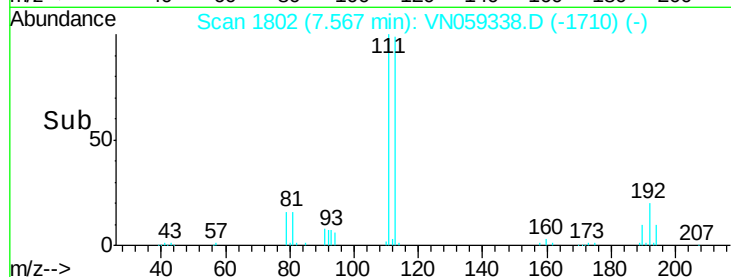
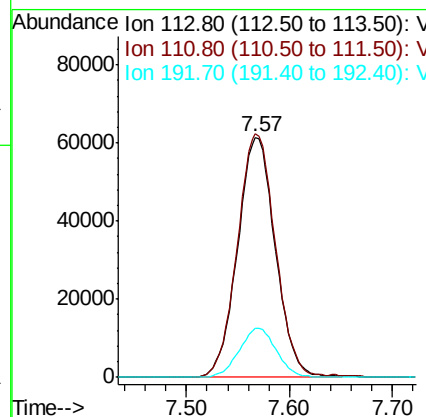
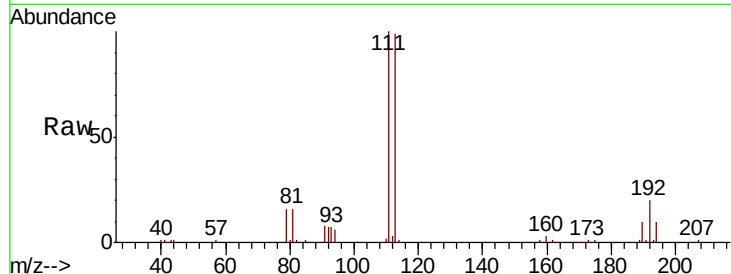
#35  
Dibromofluoromethane  
Concen: 48.624 ug/l  
RT: 7.57 min Scan# 1802  
Delta R.T. -0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1-(17-20)ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 82.7  | 124.1 |
| 192     | 20.0  | 16.3  | 24.5  |

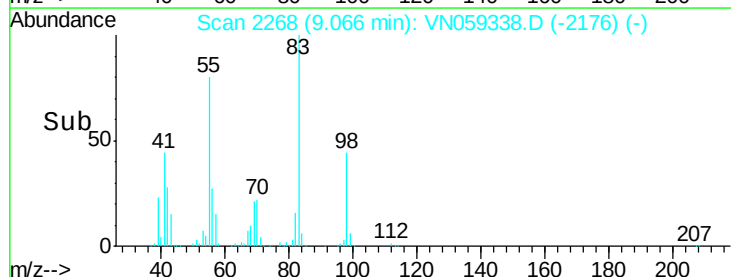
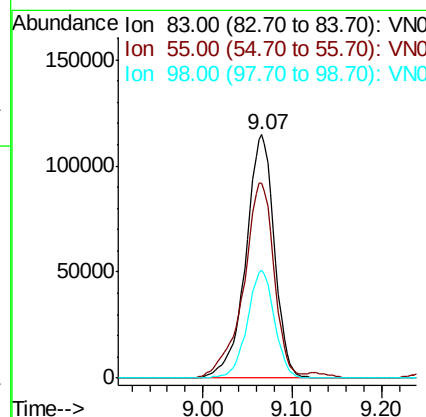
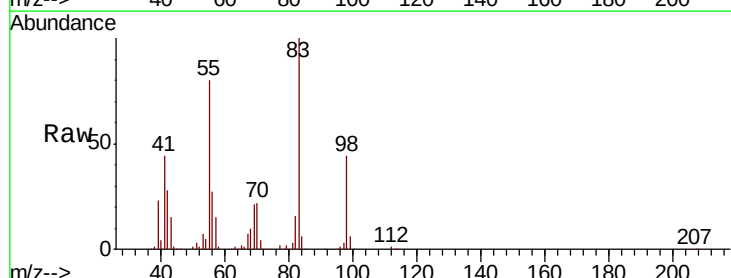
Manual Integrations  
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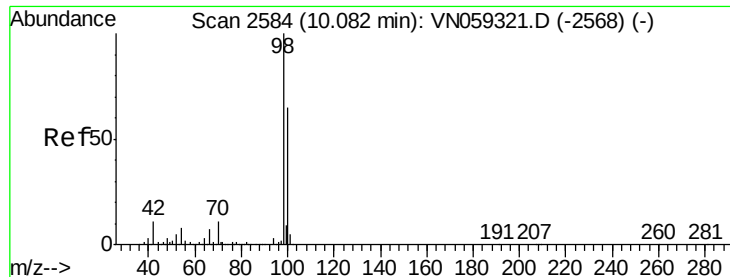
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#39  
Methylcyclohexane  
Concen: 38.326 ug/l  
RT: 9.07 min Scan# 2268  
Delta R.T. -0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 80.0  | 62.3  | 93.5  |
| 98      | 44.4  | 36.0  | 54.0  |





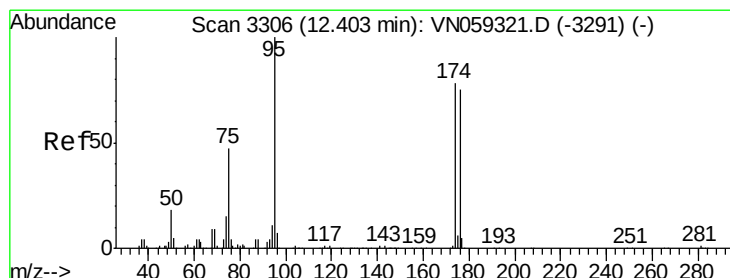
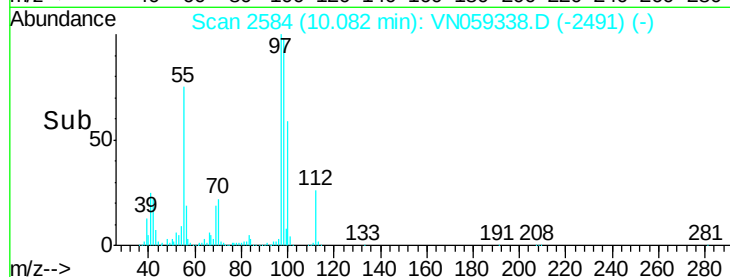
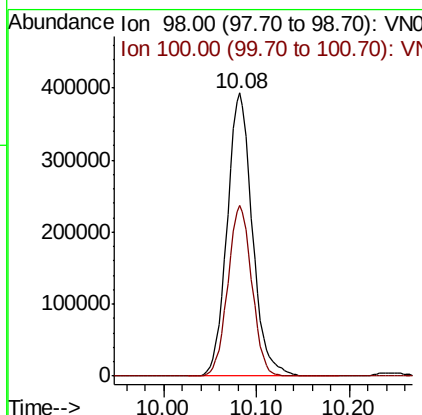
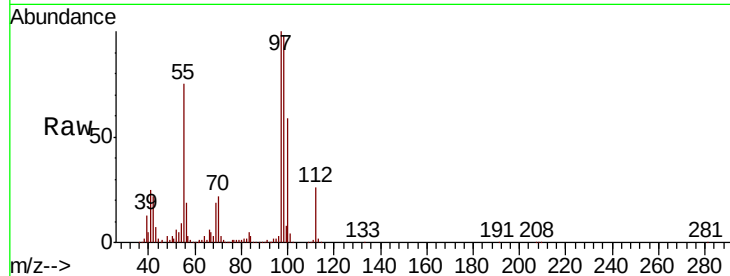
#50  
Toluene-d8  
Concen: 57.975 ug/l  
RT: 10.08 min Scan# 2584  
Delta R.T. 0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1-(17-20)ME

Tot Ion: 98 Resp: 740276  
Ion Ratio Lower Upper  
98 100  
100 57.4 51.7 77.5

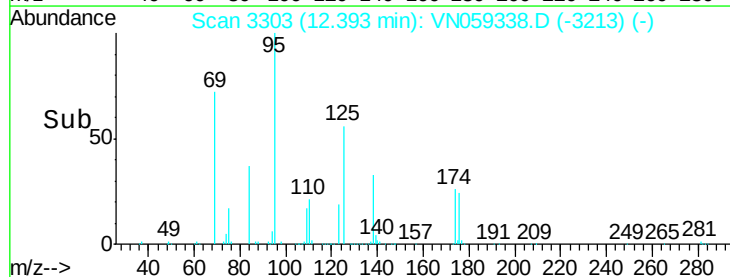
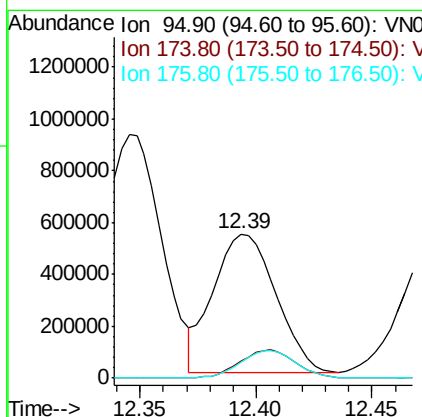
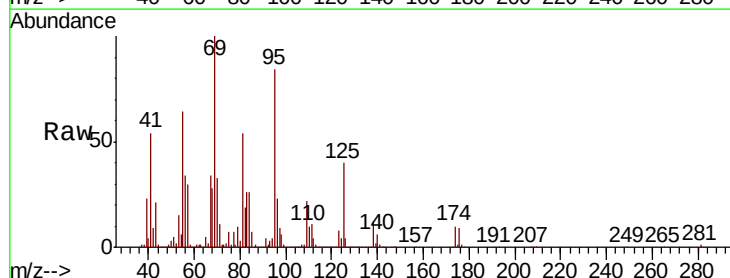
Manual Integrations  
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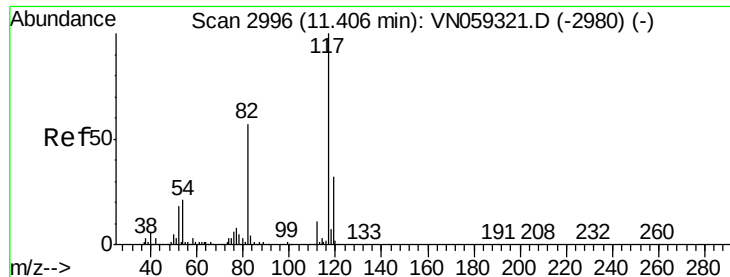
MMDadoda  
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#62  
4-Bromofluorobenzene  
Concen: 223.626 ug/l  
RT: 12.39 min Scan# 3303  
Delta R.T. -0.01 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Tgt Ion: 95 Resp: 998424  
Ion Ratio Lower Upper  
95 100  
174 18.3 0.0 157.4  
176 17.9 0.0 151.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059338.D

Acq: 21 Nov 2019 16:12

Instrument :

MSVOA\_N

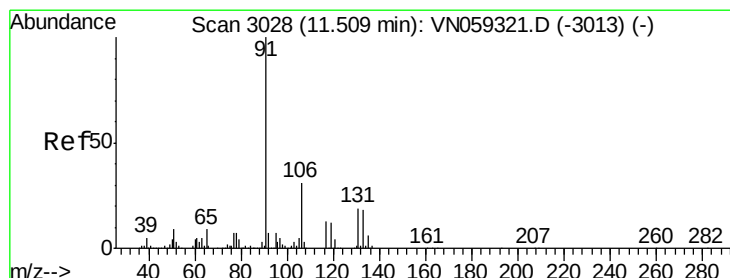
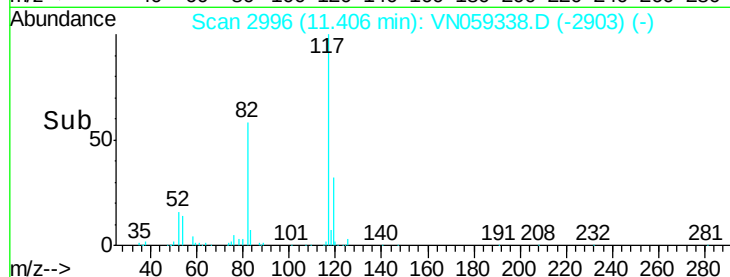
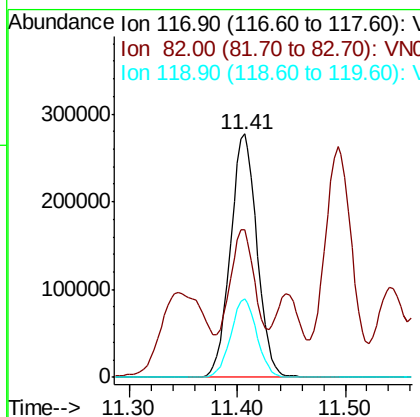
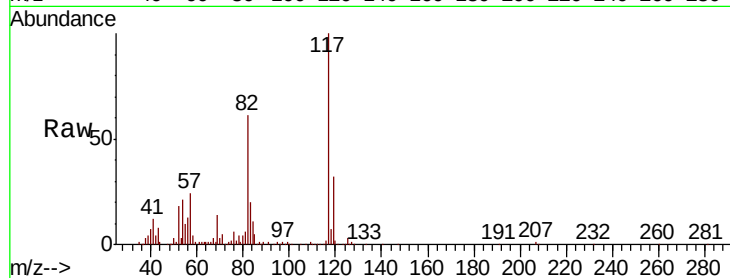
ClientSampleId :

MW-1-(17-20)ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 27.8  | 45.7  | 68.5# |
| 119     | 32.2  | 25.8  | 38.6  |

Manual Integrations  
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#67

Ethyl Benzene

Concen: 85.329 ug/l

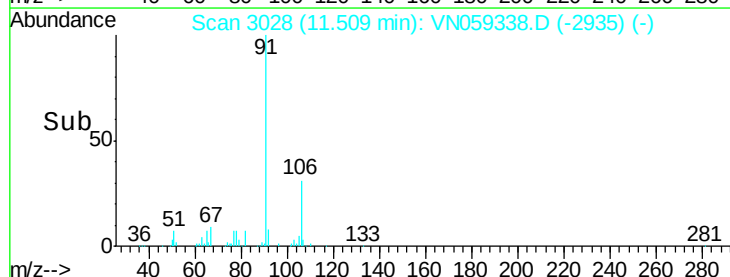
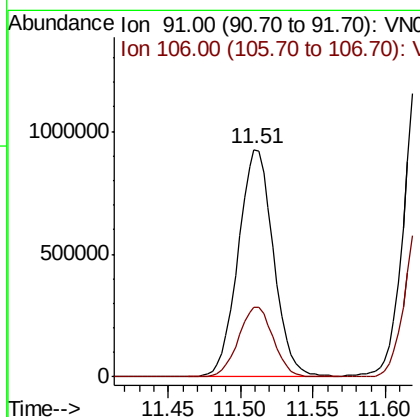
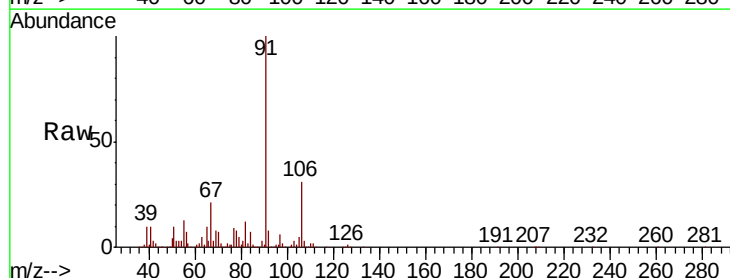
RT: 11.51 min Scan# 3028

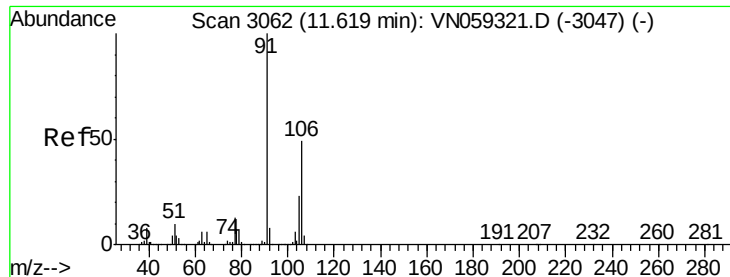
Delta R.T. 0.00 min

Lab File: VN059338.D

Acq: 21 Nov 2019 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.9  | 24.6  | 37.0  |





#68

m/p-Xvlenes

Concen: 199.506 ug/l

RT: 11.63 min Scan# 3065

Delta R.T. 0.01 min

Lab File: VN059338.D

Acq: 21 Nov 2019 16:12

Instrument :

MSVOA\_N

ClientSampleId :

MW-1-(17-20)ME

Tot Ion:106 Resp: 1354054

Ion Ratio Lower Upper

106 100

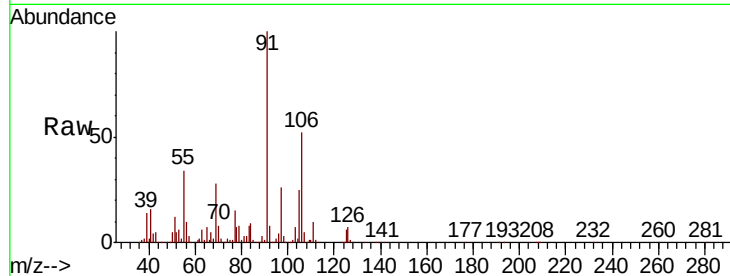
91 201.1 163.2 244.8

Manual Integrations

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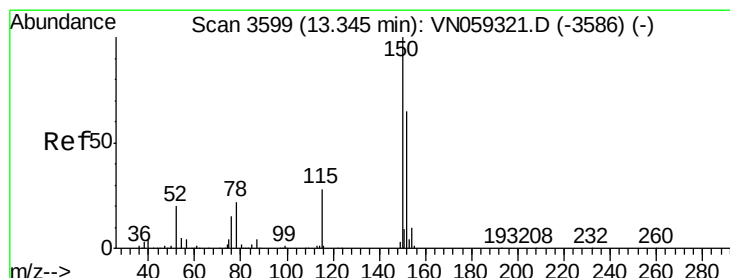
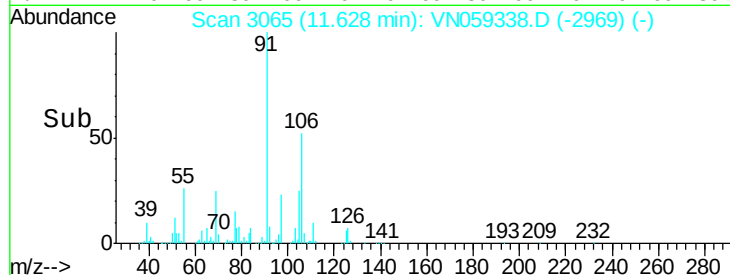
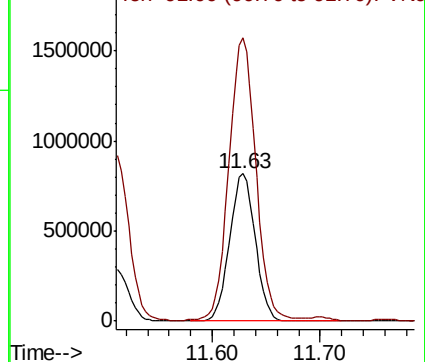
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059338.D

Acq: 21 Nov 2019 16:12

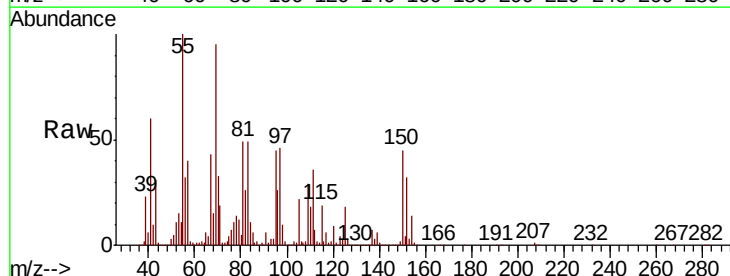
Tgt Ion:152 Resp: 407104

Ion Ratio Lower Upper

152 100

115 0.0 29.3 88.0#

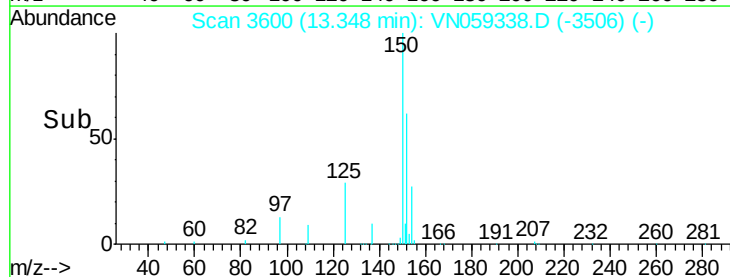
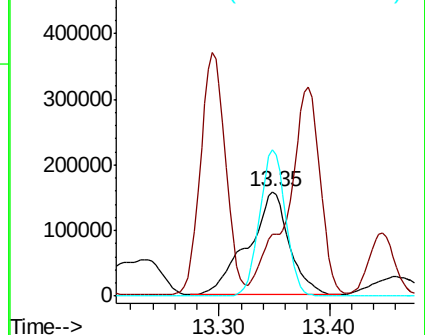
150 89.2 0.0 346.0



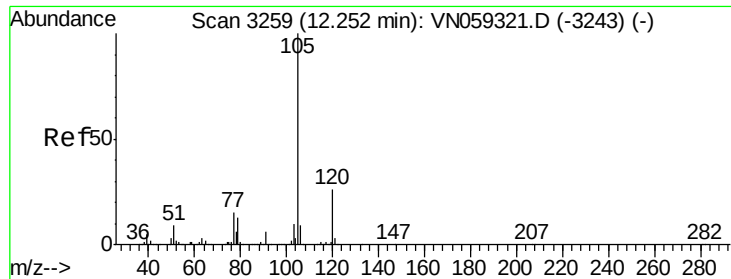
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V







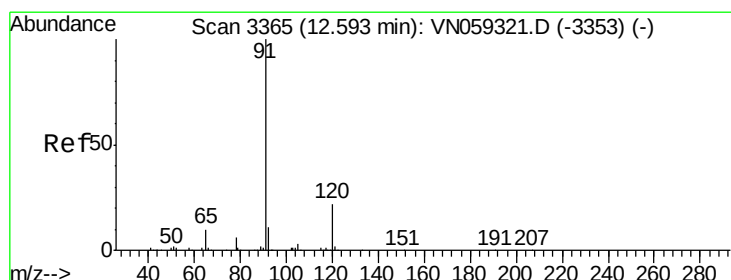
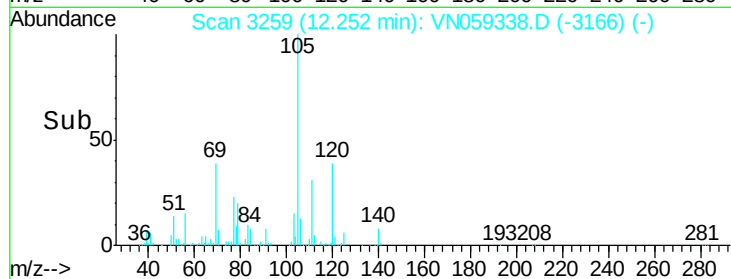
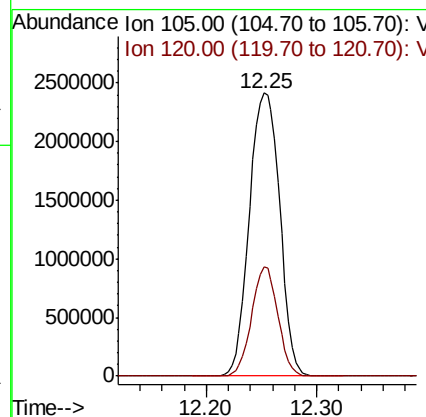
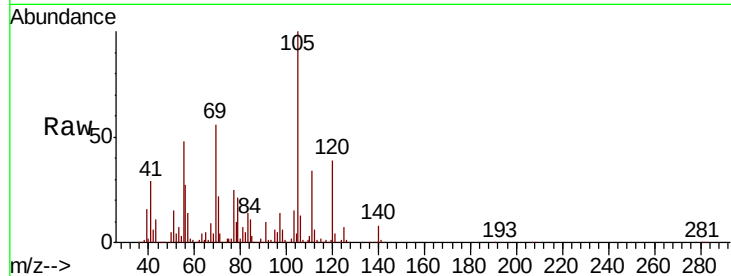
#73  
Isopropylbenzene  
Concen: 137.546 ug/l  
RT: 12.25 min Scan# 3259  
Delta R.T. 0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1-(17-20)ME

Tot Ion:105 Resp: 4587083  
Ion Ratio Lower Upper  
105 100  
120 33.3 13.1 39.3

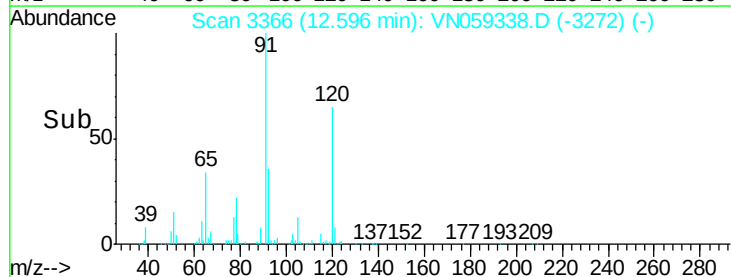
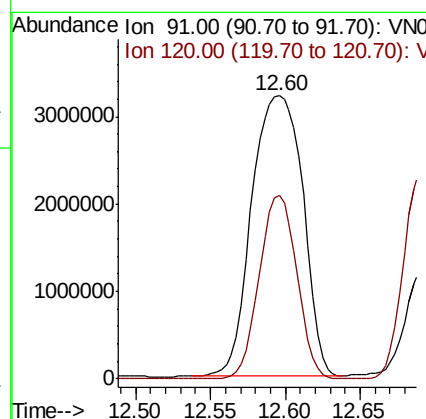
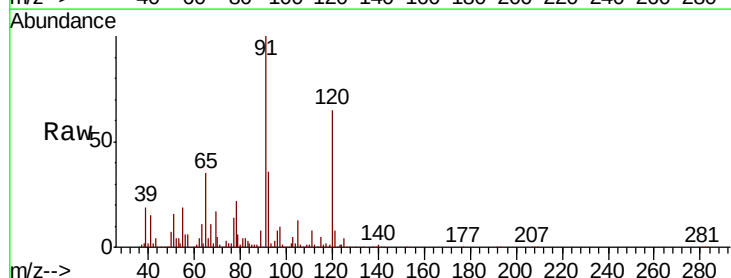
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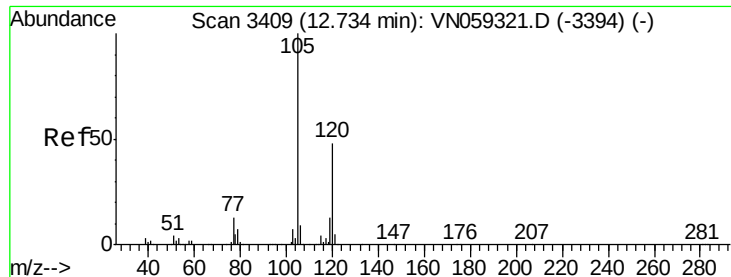
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#78  
n-propylbenzene  
Concen: 201.622 ug/l  
RT: 12.60 min Scan# 3366  
Delta R.T. 0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Tgt Ion: 91 Resp: 7616554  
Ion Ratio Lower Upper  
91 100  
120 48.3 11.3 33.9#





#80

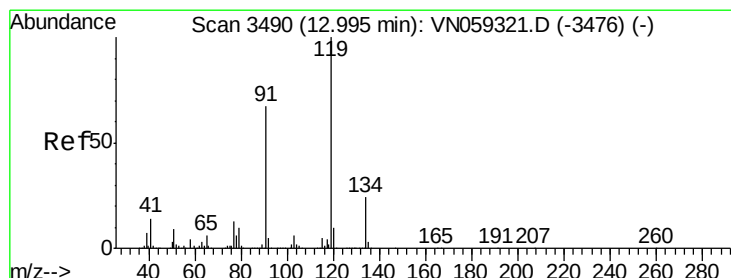
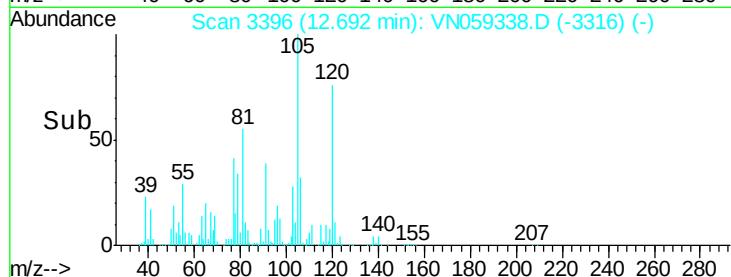
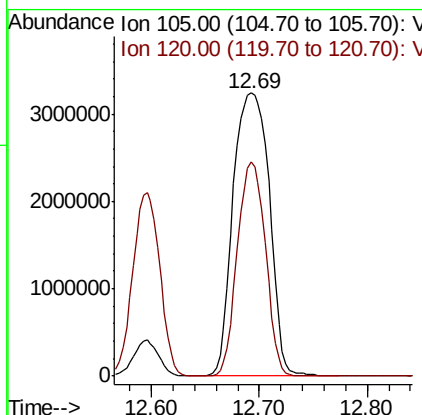
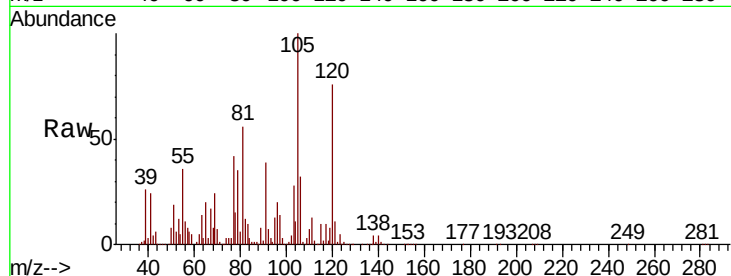
1,3,5-Trimethylbenzene  
Concen: 268.840 ug/l  
RT: 12.69 min Scan# 3396  
Delta R.T. -0.04 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1-(17-20)ME

Tot Ion:105 Resp: 7536813  
Ion Ratio Lower Upper  
105 100  
120 59.1 24.1 72.4

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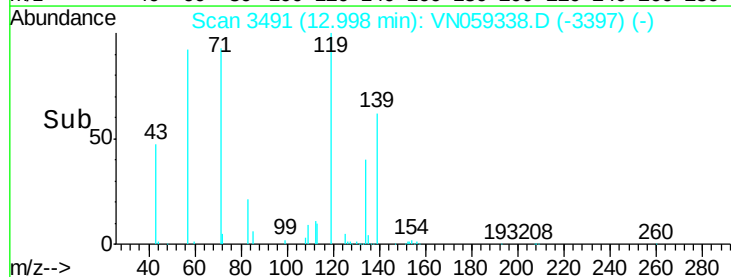
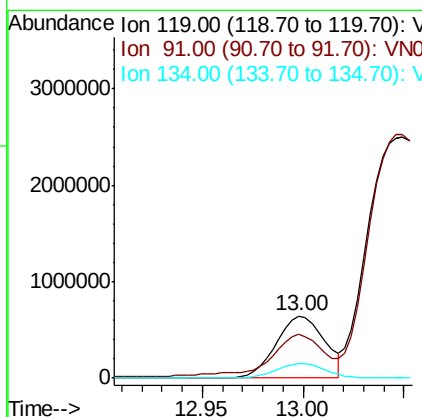
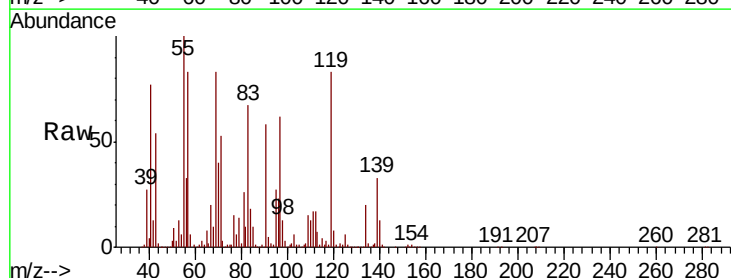
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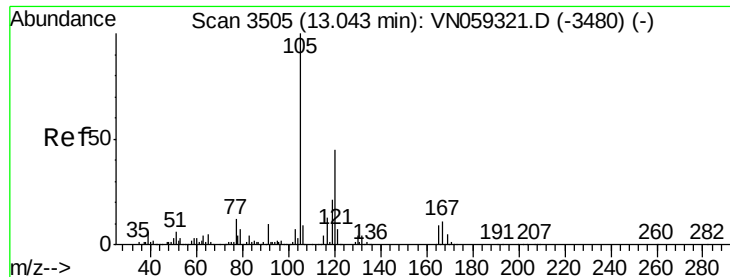


#83

tert-Butylbenzene  
Concen: 45.029 ug/l  
RT: 13.00 min Scan# 3491  
Delta R.T. 0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Tgt Ion:119 Resp: 1066168  
Ion Ratio Lower Upper  
119 100  
91 73.5 32.8 98.4  
134 24.1 13.0 38.9





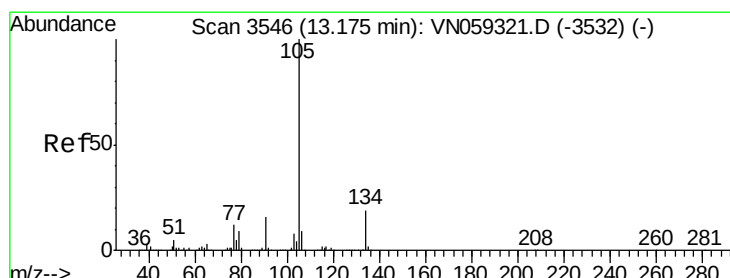
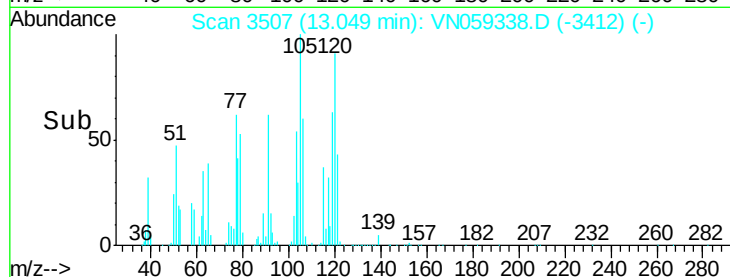
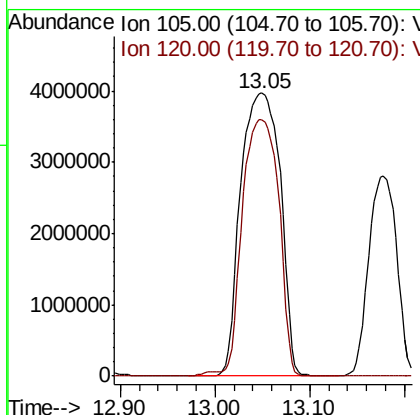
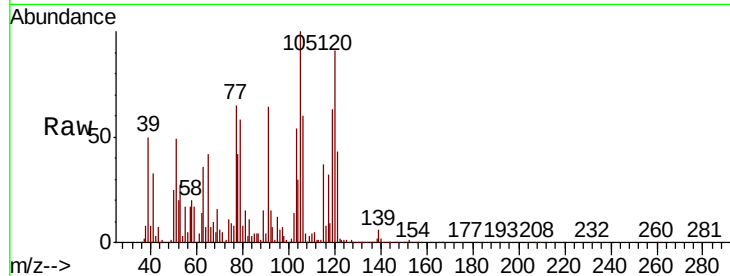
#84  
 1,2,4-Trimethylbenzene  
 Concen: 420.561 ug/l  
 RT: 13.05 min Scan# 3507  
 Delta R.T. 0.01 min  
 Lab File: VN059338.D  
 Acq: 21 Nov 2019 16:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1-(17-20)ME

Tot Ion:105 Resp:11549461  
 Ion Ratio Lower Upper  
 105 100  
 120 82.9 22.6 67.8#

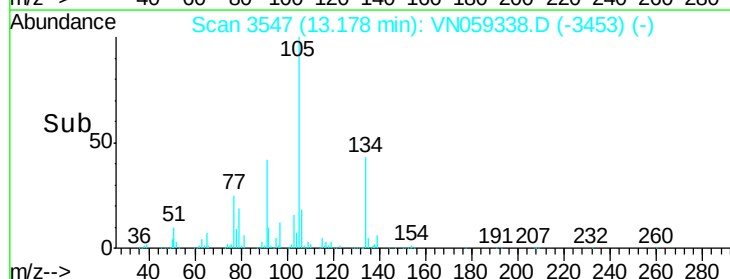
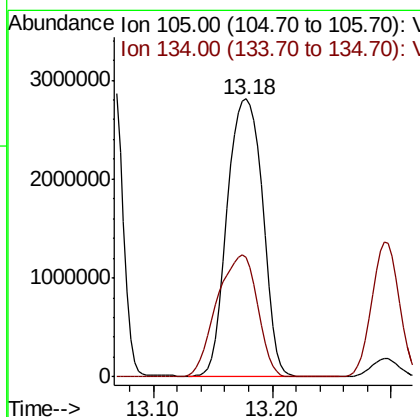
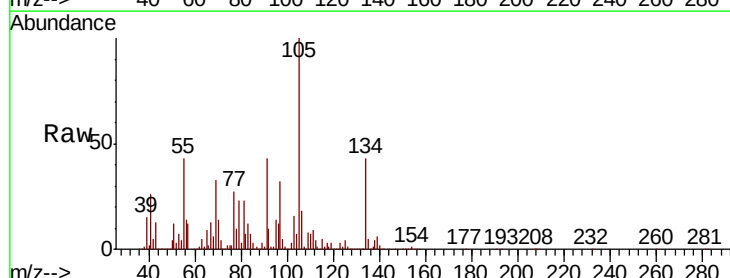
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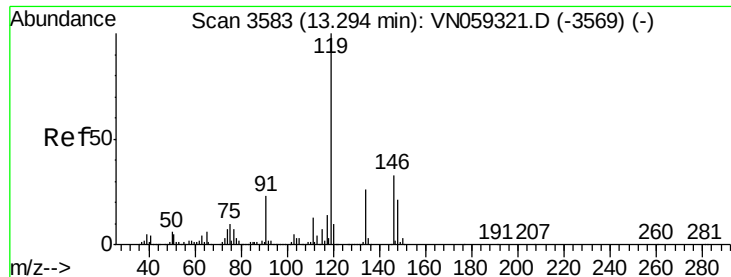
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#85  
 sec-Butylbenzene  
 Concen: 182.204 ug/l  
 RT: 13.18 min Scan# 3547  
 Delta R.T. 0.00 min  
 Lab File: VN059338.D  
 Acq: 21 Nov 2019 16:12

Tgt Ion:105 Resp: 5798334  
 Ion Ratio Lower Upper  
 105 100  
 134 50.5 9.8 29.3#





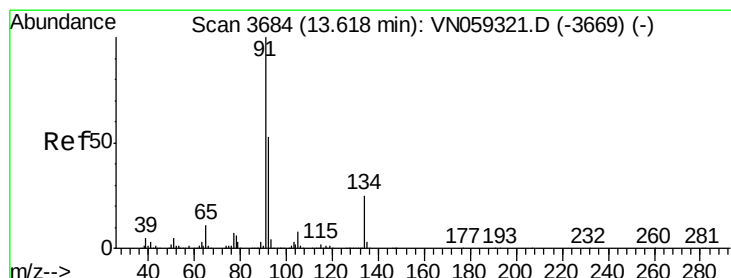
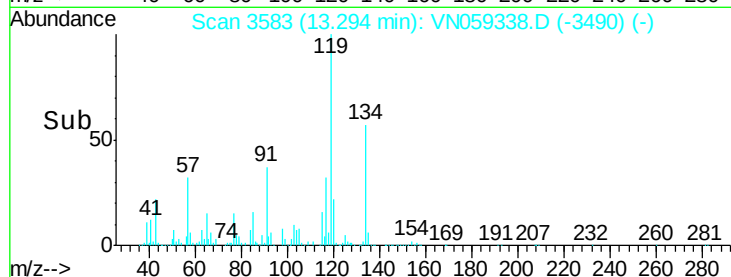
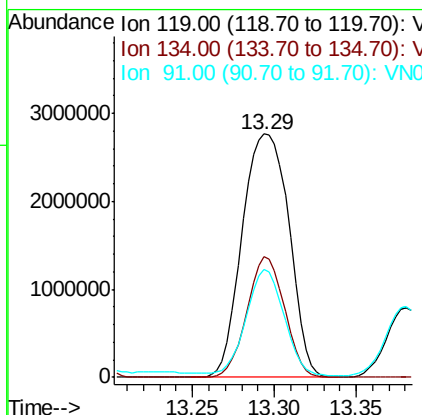
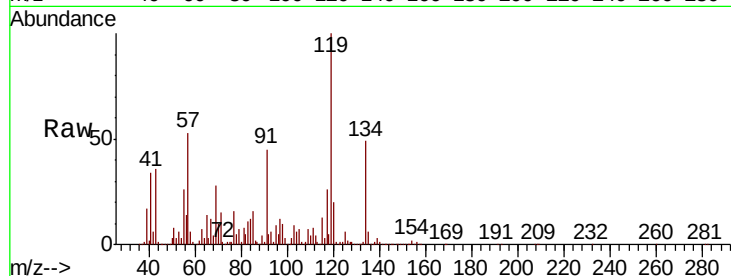
#86  
 p-Isopropyltoluene  
 Concen: 194.052 ug/l m  
 RT: 13.29 min Scan# 3583  
 Delta R.T. 0.00 min  
 Lab File: VN059338.D  
 Acq: 21 Nov 2019 16:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1-(17-20)ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 9.5   | 13.0  | 38.9# |
| 91      | 8.1   | 11.6  | 34.7# |

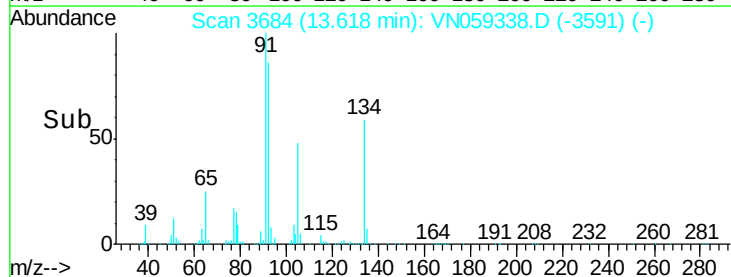
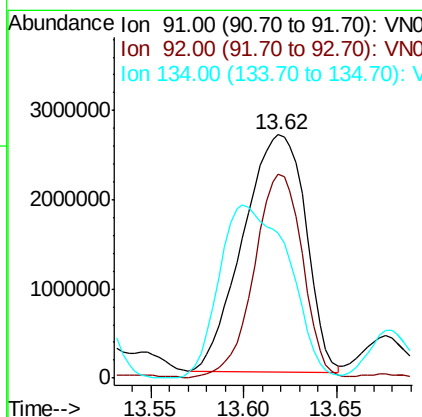
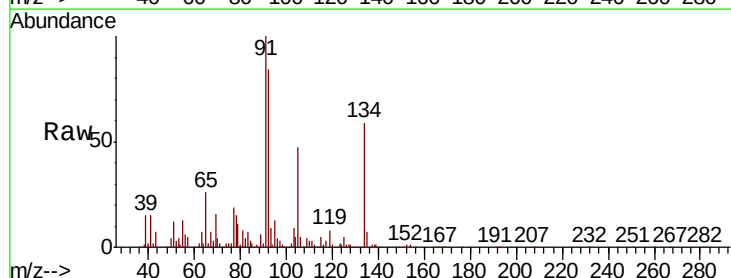
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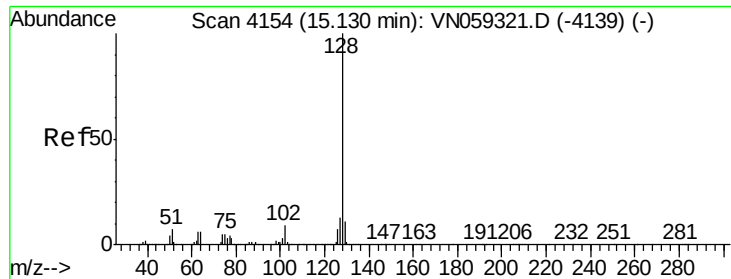
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#89  
 n-Butylbenzene  
 Concen: 252.077 ug/l  
 RT: 13.62 min Scan# 3684  
 Delta R.T. 0.00 min  
 Lab File: VN059338.D  
 Acq: 21 Nov 2019 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 66.1  | 26.0  | 78.0  |
| 134     | 81.0  | 12.7  | 38.1# |





#95  
Naphthalene  
Concen: 66.343 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN059338.D  
Acq: 21 Nov 2019 16:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1-(17-20)ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.2  | 15.2  |
| 129     | 10.9  | 8.6   | 13.0  |

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