

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121121\  
 Data File : VN070012.D  
 Acq On : 11 Dec 2021 16:53  
 Operator : JC/MD  
 Sample : M4873-07  
 Misc : 5.18g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 A2-8-6.5

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/13/2021  
 Supervised By : Mahesh Dadoda 12/28/2021

Quant Time: Dec 12 16:22:56 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|-----------|--------|----------|
| -----                       |                |      |            |           |        |          |
| Internal Standards          |                |      |            |           |        |          |
| 1) Pentafluorobenzene       | 8.088          | 168  | 1208512    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.971          | 114  | 2240925    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.747         | 117  | 2656807    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.675         | 152  | 1354291    | 50.000    | ug/l   | 0.00     |
|                             |                |      |            |           |        |          |
| System Monitoring Compounds |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.440          | 65   | 912992     | 48.929    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 97.860%   |        |          |
| 35) Dibromofluoromethane    | 8.024          | 113  | 680446     | 48.476    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 96.960%   |        |          |
| 50) Toluene-d8              | 10.443         | 98   | 3013231    | 53.462    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 106.920%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.731         | 95   | 1473214    | 72.150    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 144.300%# |        |          |
|                             |                |      |            |           |        |          |
| Target Compounds            |                |      |            |           |        | Qvalue   |
| 11) Tert butyl alcohol      | 5.385          | 59   | 216715     | 61.443    | ug/l # | 71       |
| 19) Methyl tert-butyl Ether | 5.624          | 73   | 752511     | 16.812    | ug/l # | 1        |
| 31) Cyclohexane             | 8.091          | 56   | 1345372    | 51.810    | ug/l # | 83       |
| 39) Methylcyclohexane       | 9.462          | 83   | 1627793    | 64.149    | ug/l # | 86       |
| 40) Benzene                 | 8.464          | 78   | 9242576    | 141.743   | ug/l   | 99       |
| 52) Toluene                 | 10.508         | 92   | 2576314    | 64.716    | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.838         | 91   | 18275555m  | 186.665   | ug/l   |          |
| 68) m/p-Xylenes             | 11.942         | 106  | 20005674m  | 561.196   | ug/l   |          |
| 69) o-Xylene                | 12.280         | 106  | 2268114    | 63.165    | ug/l   | 90       |
| 73) Isopropylbenzene        | 12.581         | 105  | 2127084    | 17.653    | ug/l   | 98       |
| 78) n-propylbenzene         | 12.921         | 91   | 8718418    | 65.022    | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene  | 13.061         | 105  | 9978176    | 102.885   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.356         | 105  | 21076062m  | 228.187   | ug/l   |          |
| 85) sec-Butylbenzene        | 13.503         | 105  | 647313     | 5.557     | ug/l # | 64       |
| 86) p-Isopropyltoluene      | 13.616         | 119  | 375422m    | 4.123     | ug/l   |          |
| 89) n-Butylbenzene          | 13.943         | 91   | 881123m    | 11.930    | ug/l   |          |
| -----                       |                |      |            |           |        |          |

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

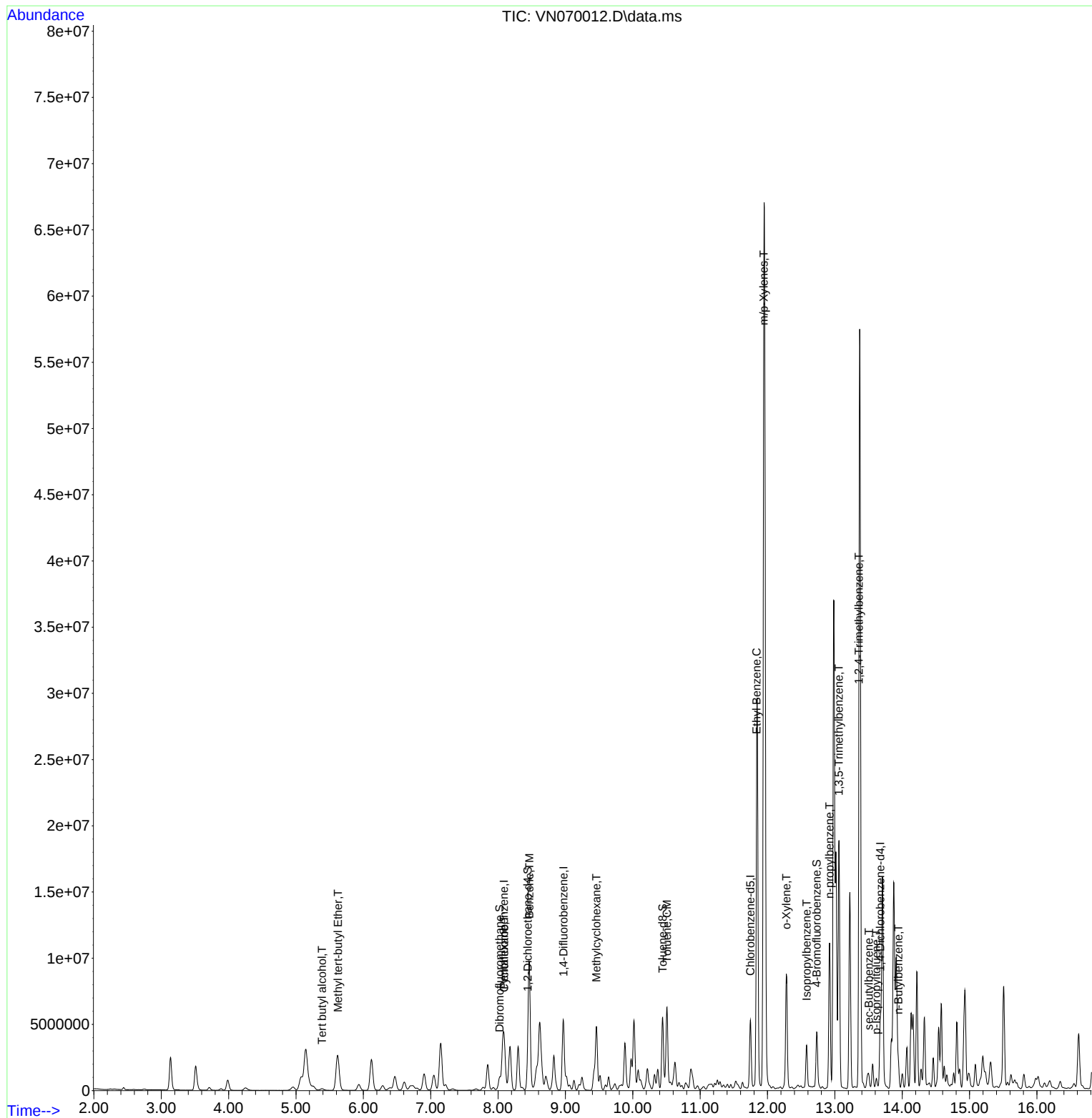
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121121\  
Data File : VN070012.D  
Acq On : 11 Dec 2021 16:53  
Operator : JC/MD  
Sample : M4873-07  
Misc : 5.18g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 14 Sample Multiplier: 1

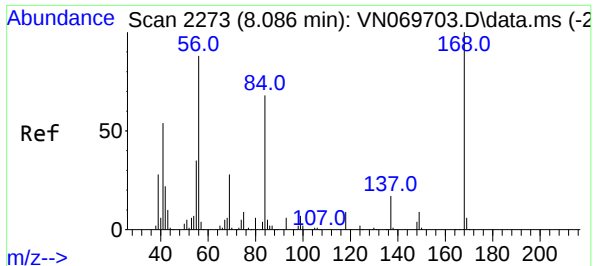
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5

Quant Time: Dec 12 16:22:56 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

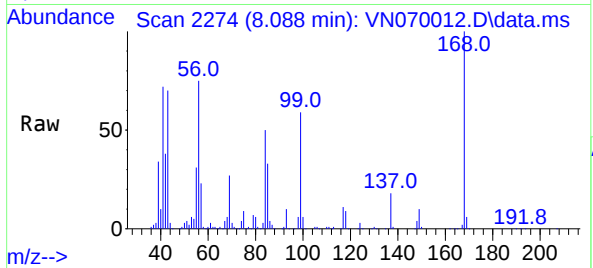
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

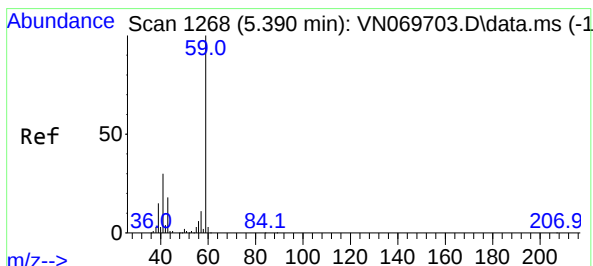
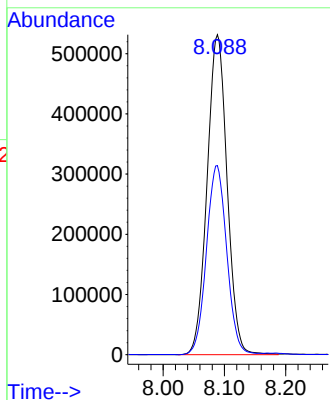
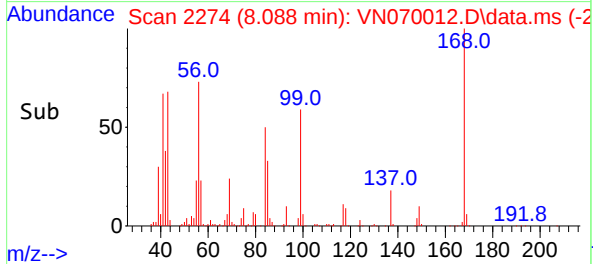
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



Tgt Ion:168 Resp: 120851  
Ion Ratio Lower Upper  
168 100  
99 59.1 41.3 61.9

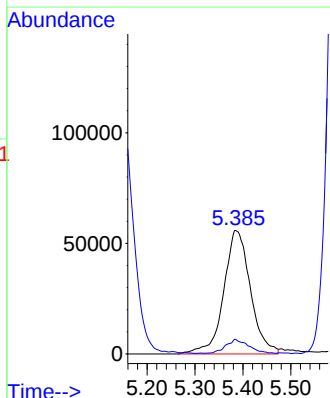
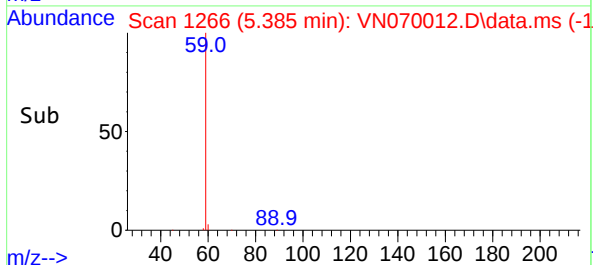
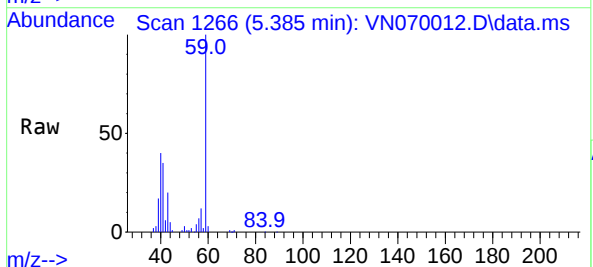
Manual Integrations  
APPROVED

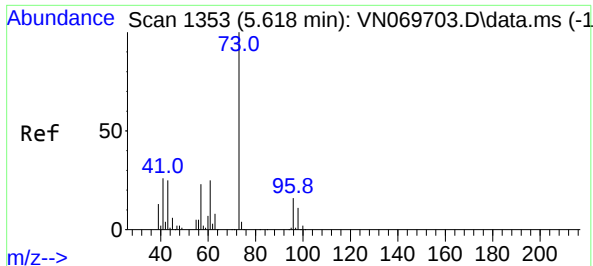
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021



#11  
Tert butyl alcohol  
Concen: 61.443 ug/l  
RT: 5.385 min Scan# 1266  
Delta R.T. -0.005 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

Tgt Ion: 59 Resp: 216715  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#





#19

Methyl tert-butyl Ether

Concen: 16.812 ug/l

RT: 5.624 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN070012.D

Acq: 11 Dec 2021 16:53

Instrument :

MSVOA\_N

ClientSampleId :

A2-8-6.5

Tgt Ion: 73 Resp: 75251

Ion Ratio Lower Upper

73 100

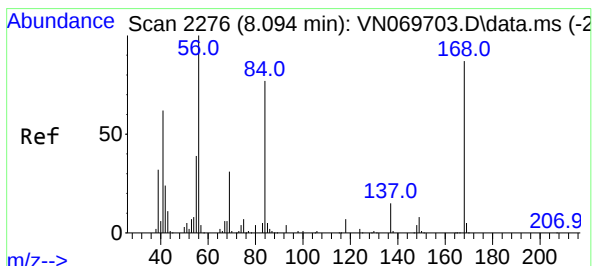
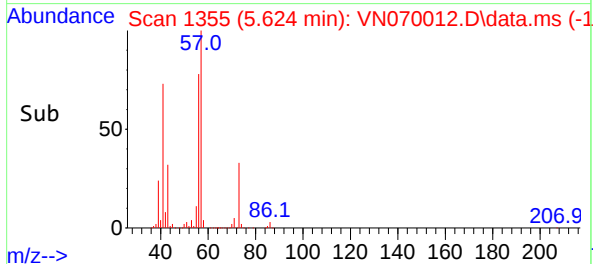
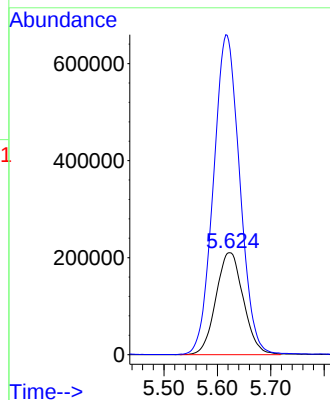
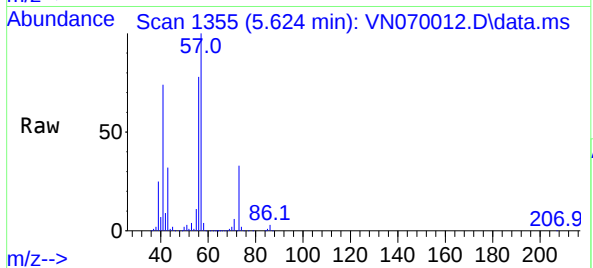
57 298.7 16.8 25.2

Manual Integrations

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Reviewed By :John Carlone 12/13/2021

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#31

Cyclohexane

Concen: 51.810 ug/l

RT: 8.091 min Scan# 2275

Delta R.T. -0.002 min

Lab File: VN070012.D

Acq: 11 Dec 2021 16:53

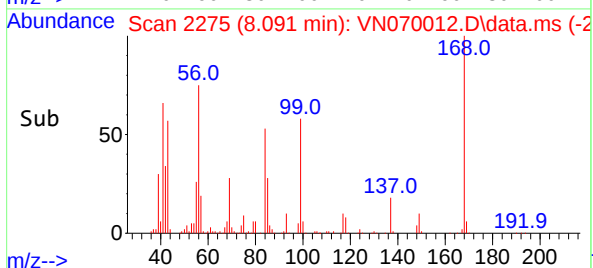
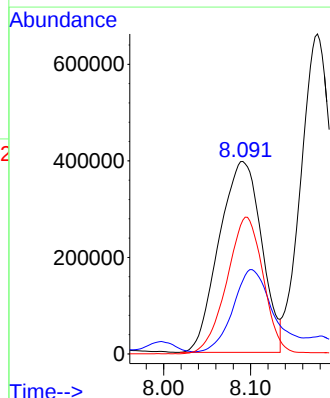
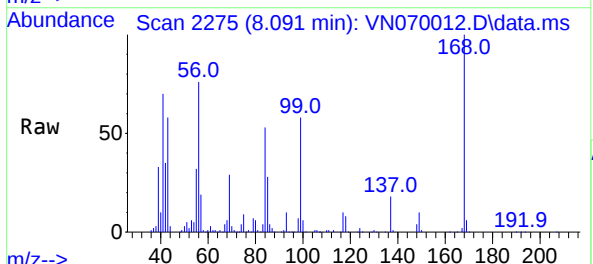
Tgt Ion: 56 Resp: 1345372

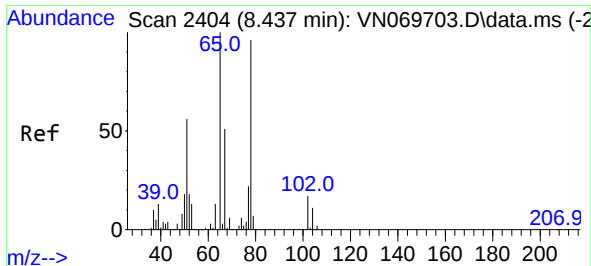
Ion Ratio Lower Upper

56 100

69 35.8 27.1 40.7

84 70.1 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 48.929 ug/l

RT: 8.440 min Scan# 2404

Delta R.T. 0.003 min

Lab File: VN070012.D

Acq: 11 Dec 2021 16:53

Instrument :

MSVOA\_N

ClientSampleId :

A2-8-6.5

Tgt Ion: 65 Resp: 912992

Ion Ratio Lower Upper

65 100

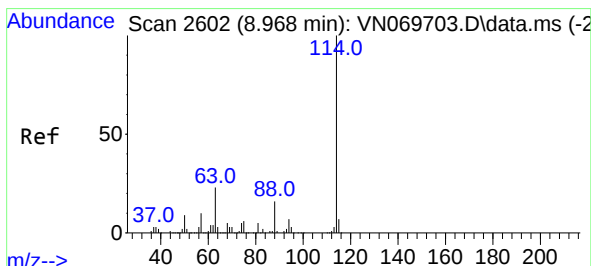
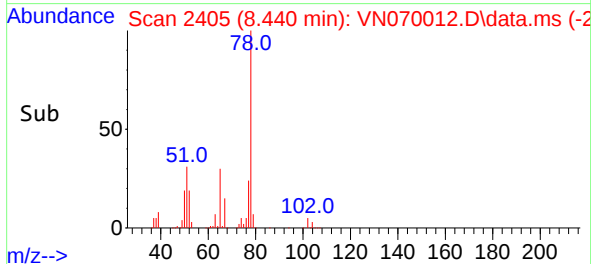
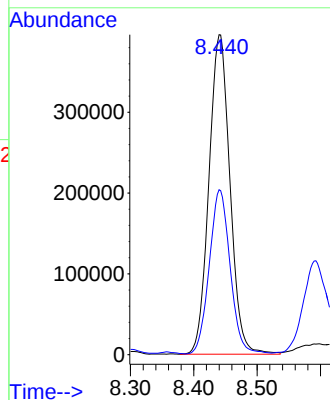
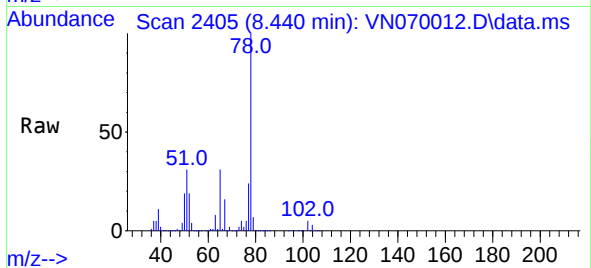
67 50.7 0.0 103.0

Manual Integrations

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Reviewed By :John Carlone 12/13/2021

Supervised By :Mahesh Dadoda 12/28/2021



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN070012.D

Acq: 11 Dec 2021 16:53

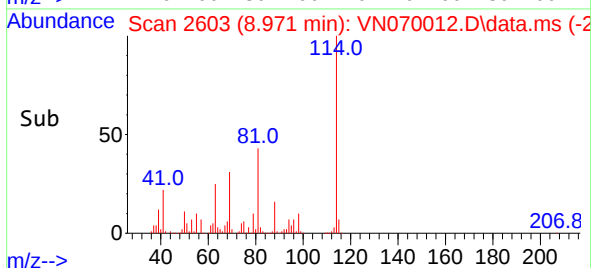
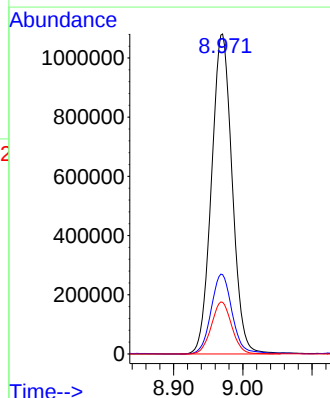
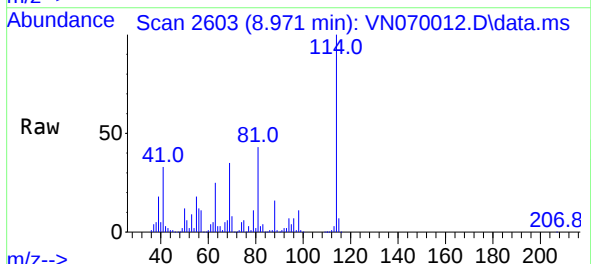
Tgt Ion:114 Resp: 2240925

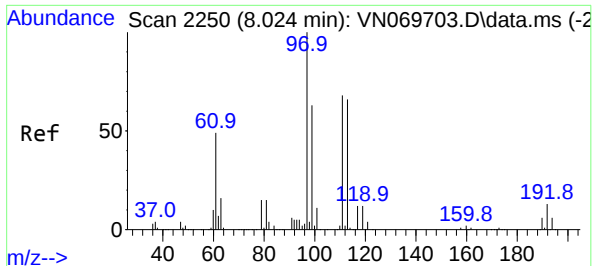
Ion Ratio Lower Upper

114 100

63 24.8 0.0 37.8

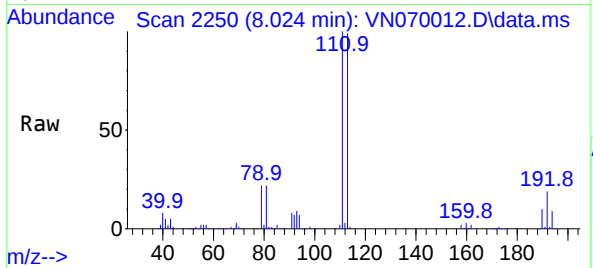
88 16.2 0.0 27.4





#35  
Dibromofluoromethane  
Concen: 48.476 ug/l  
RT: 8.024 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

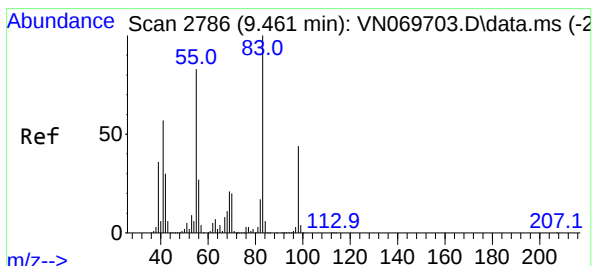
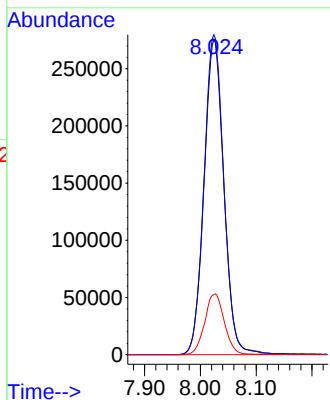
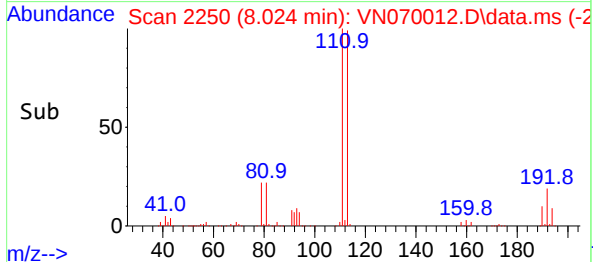
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



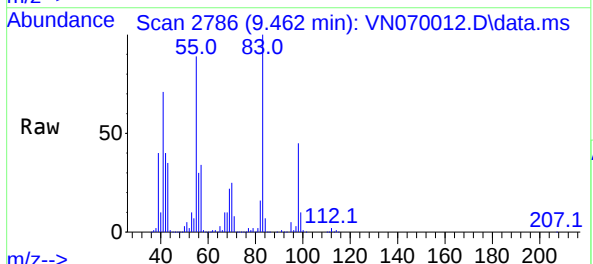
Tgt Ion:113 Resp: 680440  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.2 123.2  
192 19.2 16.9 25.3

Manual Integrations  
APPROVED

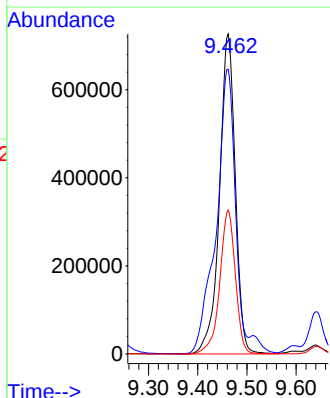
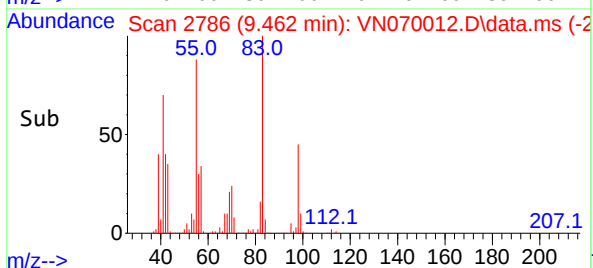
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

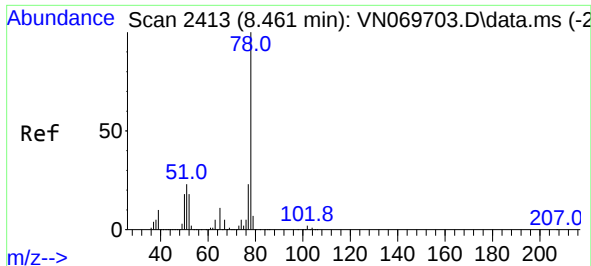


#39  
Methylcyclohexane  
Concen: 64.149 ug/l  
RT: 9.462 min Scan# 2786  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



Tgt Ion: 83 Resp: 1627793  
Ion Ratio Lower Upper  
83 100  
55 88.9 58.1 87.1#  
98 44.9 38.4 57.6





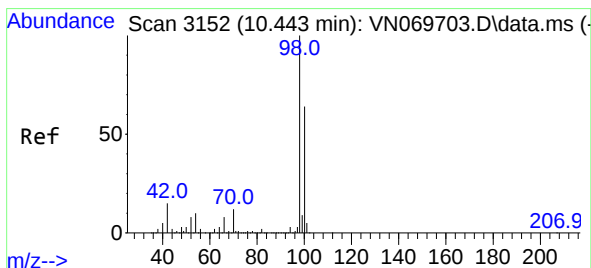
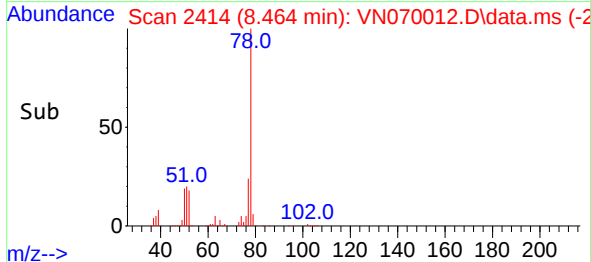
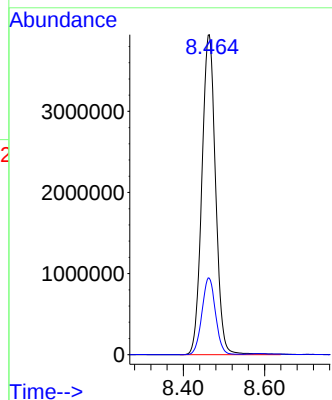
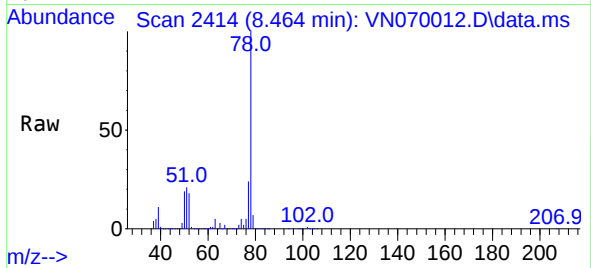
#40  
Benzene  
Concen: 141.743 ug/l  
RT: 8.464 min Scan# 2413  
Delta R.T. 0.003 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5

Tgt Ion: 78 Resp: 9242570  
Ion Ratio Lower Upper  
78 100  
77 23.9 18.6 27.8

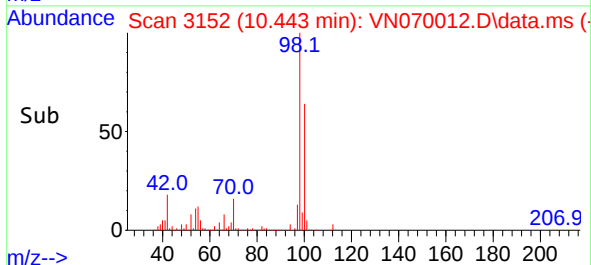
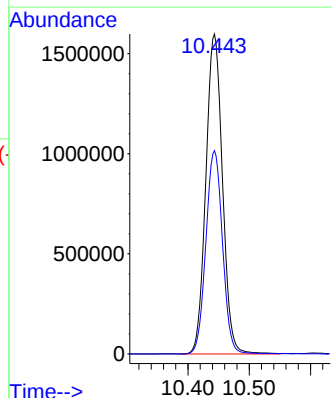
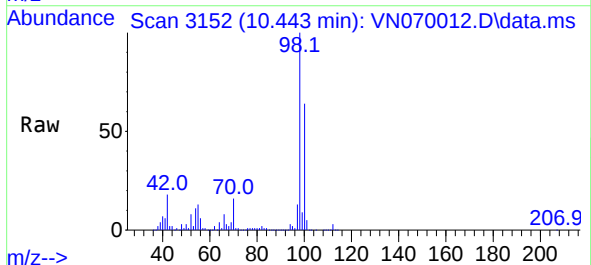
Manual Integrations  
APPROVED

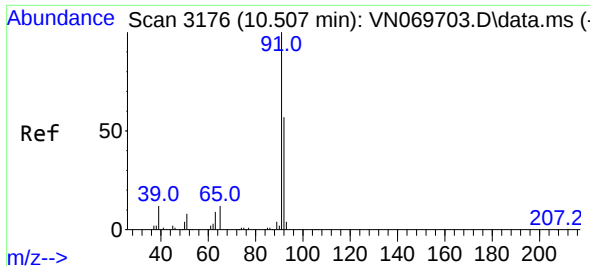
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021



#50  
Toluene-d8  
Concen: 53.462 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

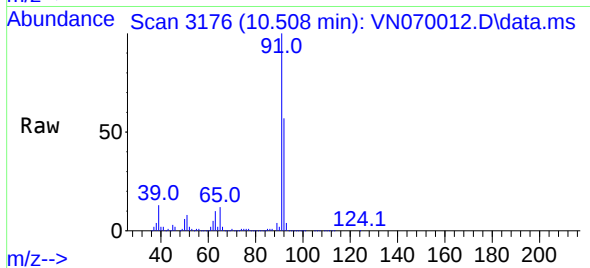
Tgt Ion: 98 Resp: 3013231  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.4 75.6





#52  
Toluene  
Concen: 64.716 ug/l  
RT: 10.508 min Scan# 3176  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

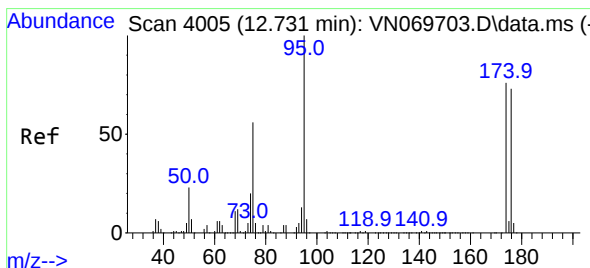
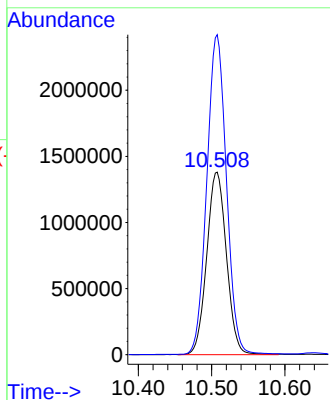
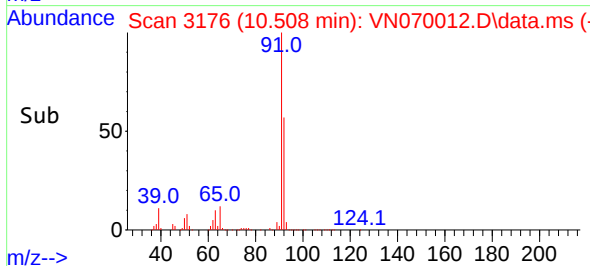
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



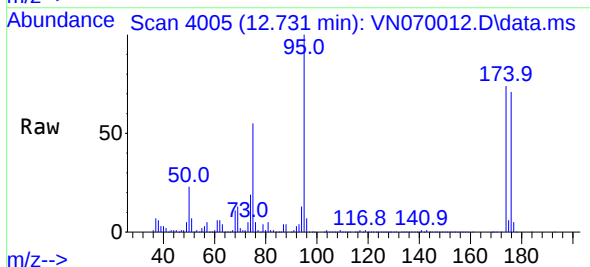
Tgt Ion: 92 Resp: 2576314  
Ion Ratio Lower Upper  
92 100  
91 174.1 142.0 213.0

Manual Integrations  
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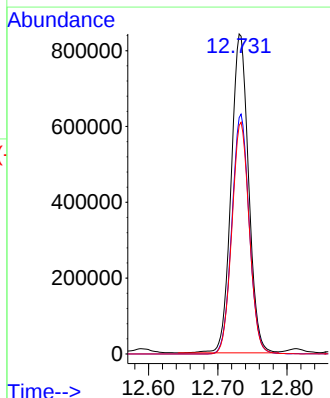
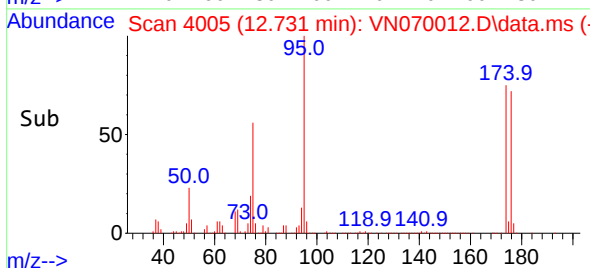
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

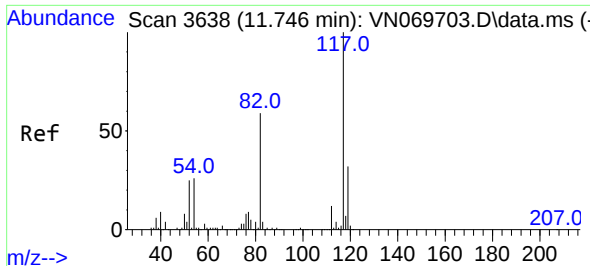


#62  
4-Bromofluorobenzene  
Concen: 72.150 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



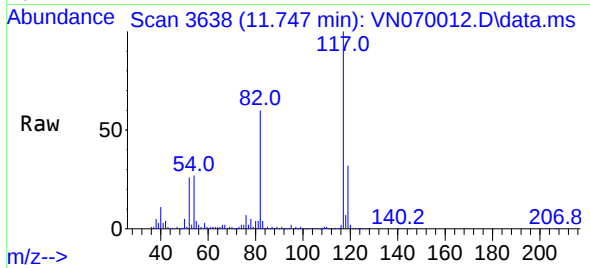
Tgt Ion: 95 Resp: 1473214  
Ion Ratio Lower Upper  
95 100  
174 74.4 0.0 187.2  
176 72.3 0.0 181.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.001 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

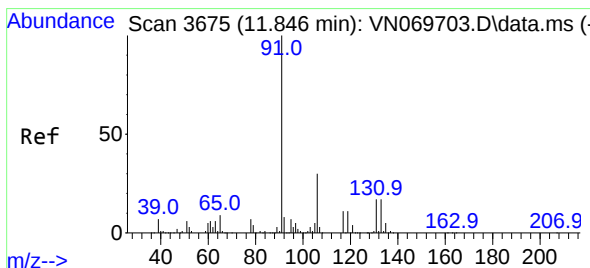
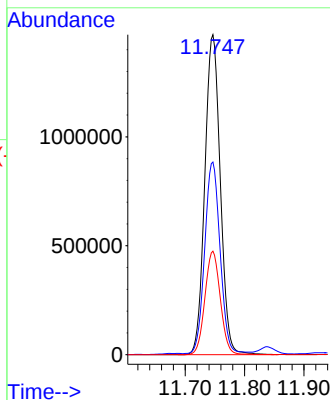
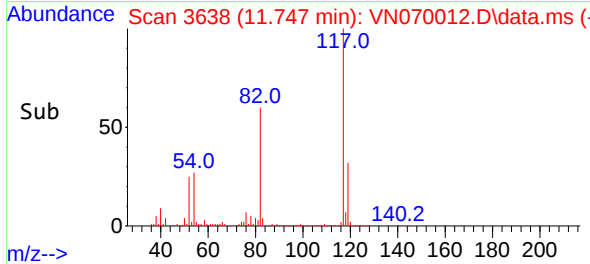
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



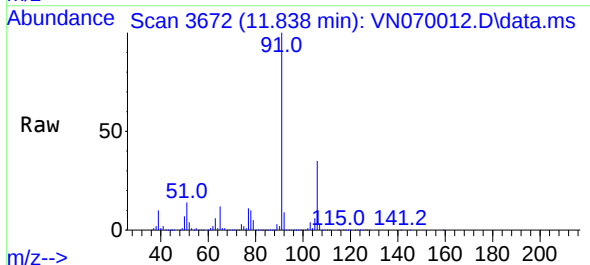
Tgt Ion: 117 Resp: 265680  
Ion Ratio Lower Upper  
117 100  
82 59.8 42.4 63.6  
119 32.3 25.4 38.2

Manual Integrations  
APPROVED

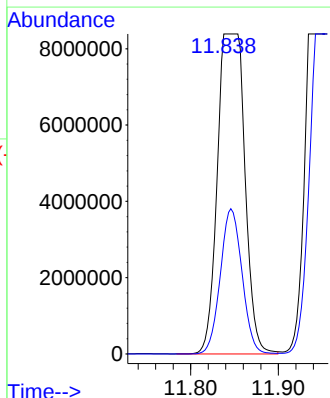
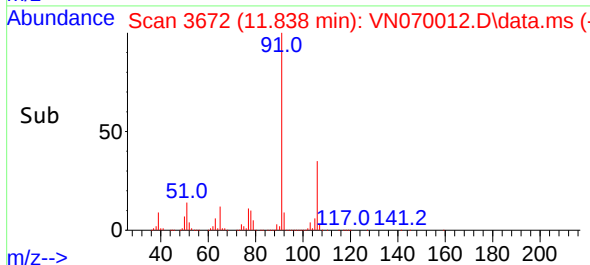
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

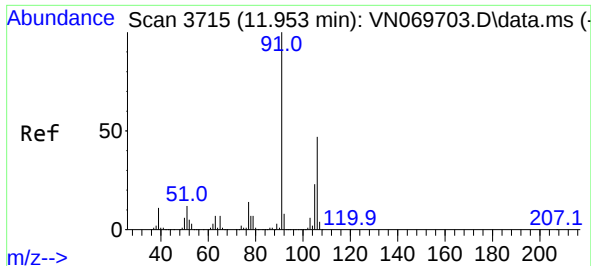


#67  
Ethyl Benzene  
Concen: 186.665 ug/l m  
RT: 11.838 min Scan# 3672  
Delta R.T. -0.008 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



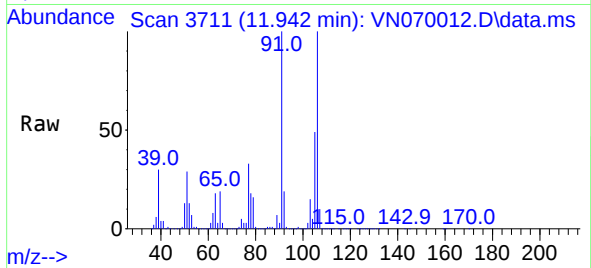
Tgt Ion: 91 Resp: 18275555  
Ion Ratio Lower Upper  
91 100  
106 35.0 25.7 38.5





#68  
m/p-Xylenes  
Concen: 561.196 ug/l m  
RT: 11.942 min Scan# 3711  
Delta R.T. -0.011 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

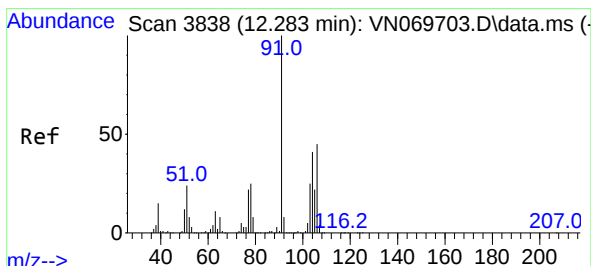
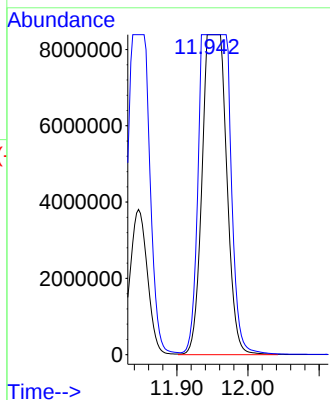
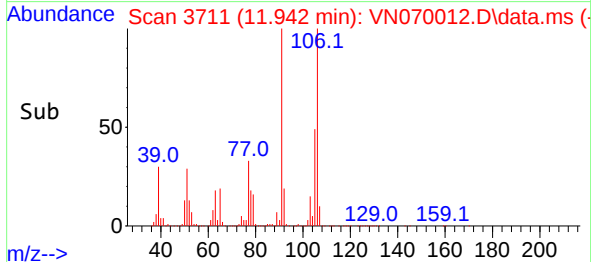
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



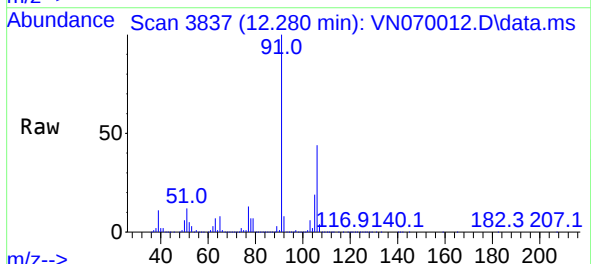
Tgt Ion:106 Resp:20005674  
Ion Ratio Lower Upper  
106 100  
91 0.0 160.6 240.8

Manual Integrations  
APPROVED

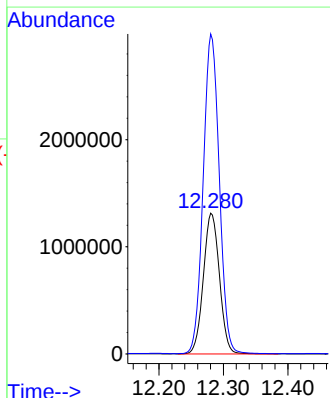
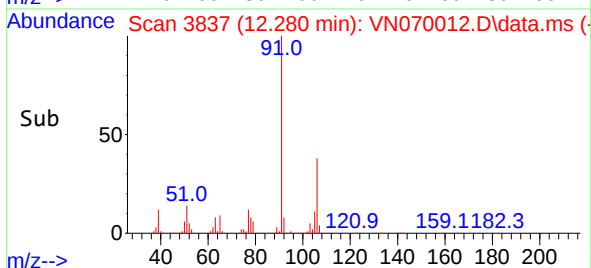
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

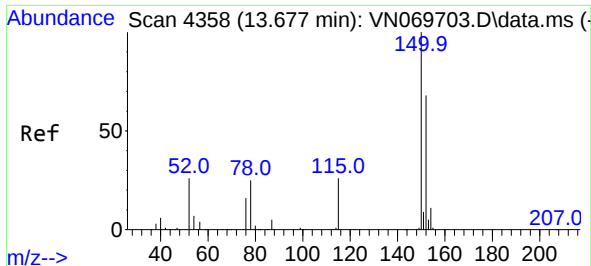


#69  
o-Xylene  
Concen: 63.165 ug/l  
RT: 12.280 min Scan# 3837  
Delta R.T. -0.002 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



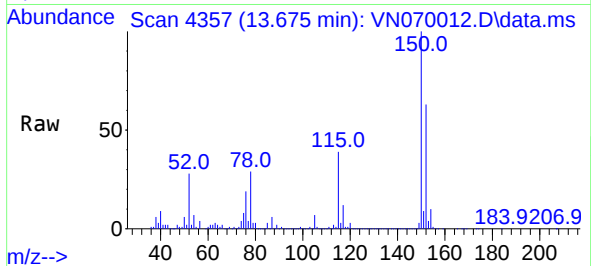
Tgt Ion:106 Resp: 2268114  
Ion Ratio Lower Upper  
106 100  
91 227.1 105.8 317.3





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4358  
Delta R.T. -0.002 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

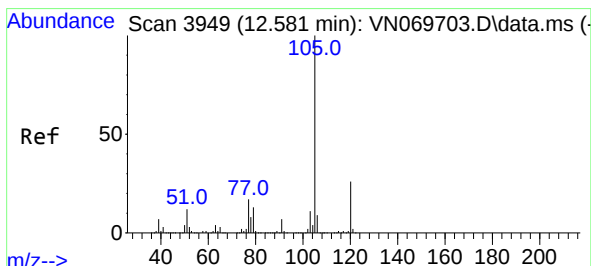
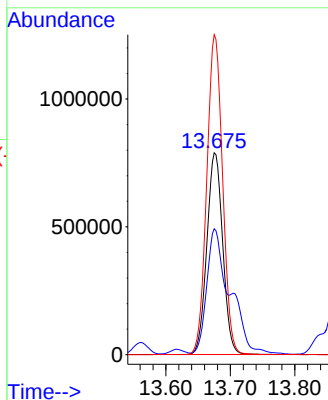
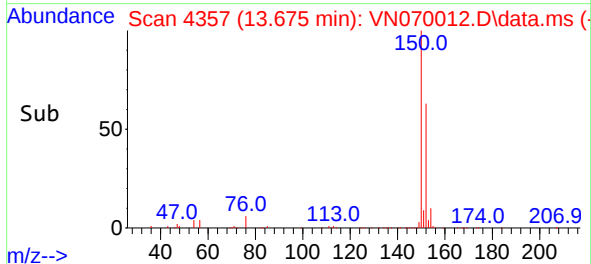
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



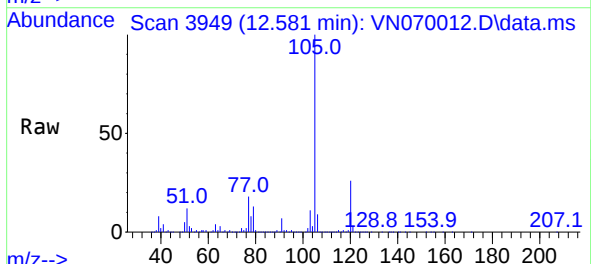
Tgt Ion:152 Resp: 135429  
Ion Ratio Lower Upper  
152 100  
115 66.3 27.5 82.5  
150 157.9 0.0 344.4

Manual Integrations  
APPROVED

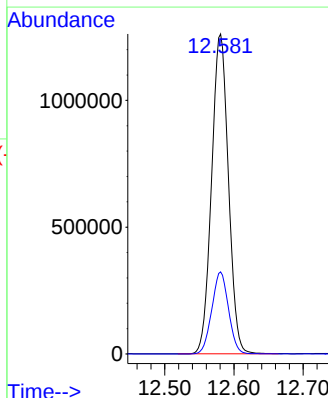
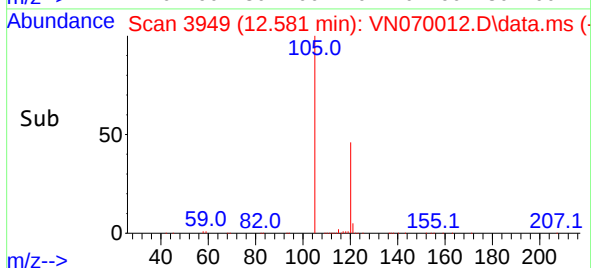
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

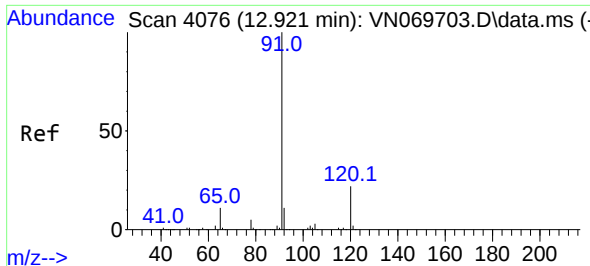


#73  
Isopropylbenzene  
Concen: 17.653 ug/l  
RT: 12.581 min Scan# 3949  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



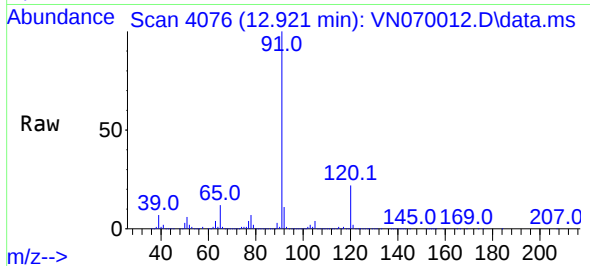
Tgt Ion:105 Resp: 2127084  
Ion Ratio Lower Upper  
105 100  
120 25.5 13.4 40.1





#78  
n-propylbenzene  
Concen: 65.022 ug/l  
RT: 12.921 min Scan# 4076  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

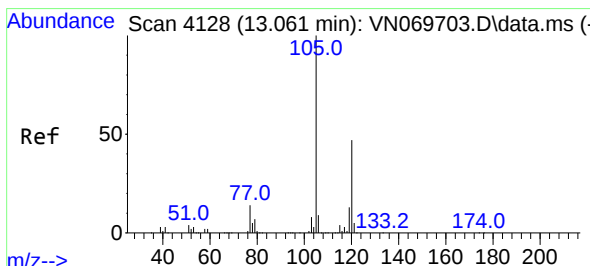
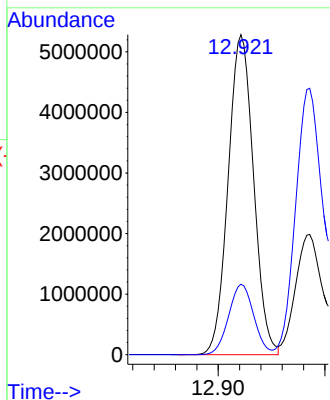
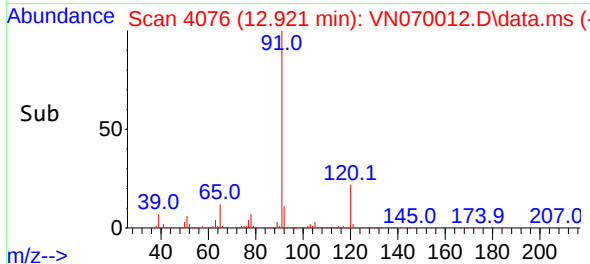
Instrument :  
MSVOA\_N  
Client Sample Id :  
A2-8-6.5



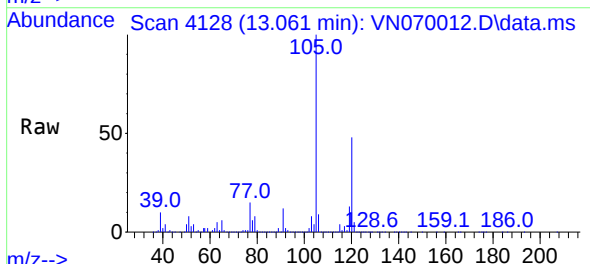
Tgt Ion: 91 Resp: 8718418  
Ion Ratio Lower Upper  
91 100  
120 21.8 11.9 35.9

Manual Integrations  
APPROVED

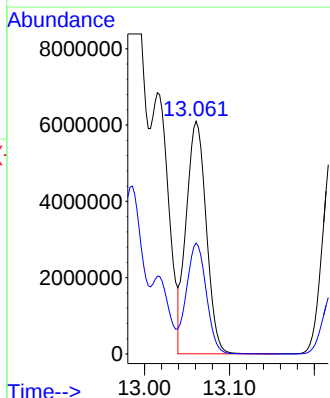
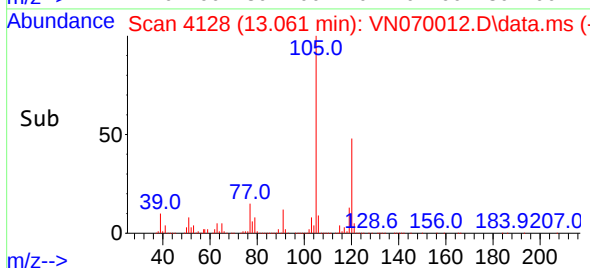
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

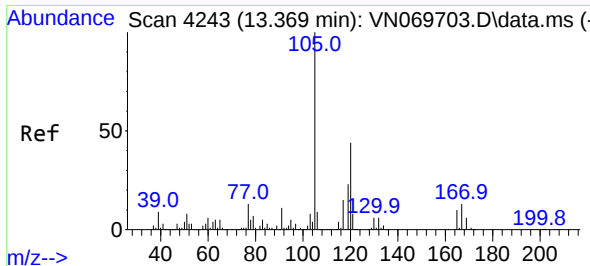


#80  
1,3,5-Trimethylbenzene  
Concen: 102.885 ug/l  
RT: 13.061 min Scan# 4128  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



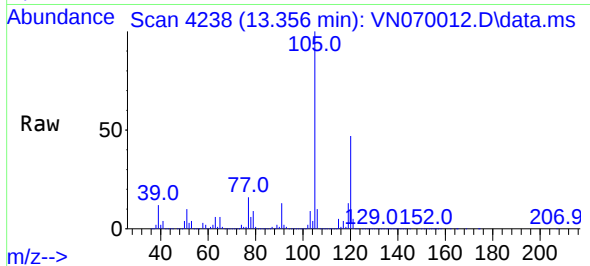
Tgt Ion:105 Resp: 9978176  
Ion Ratio Lower Upper  
105 100  
120 48.1 24.6 73.6





#84  
1,2,4-Trimethylbenzene  
Concen: 228.187 ug/l m  
RT: 13.356 min Scan# 4243  
Delta R.T. -0.013 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

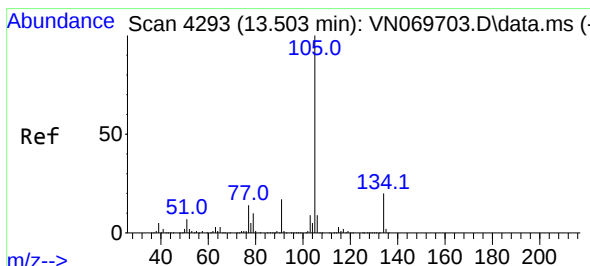
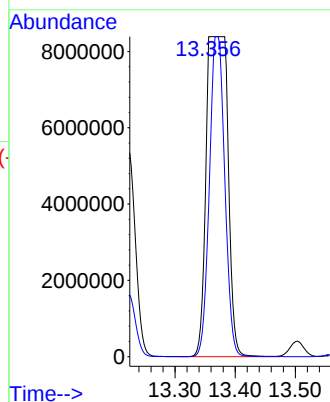
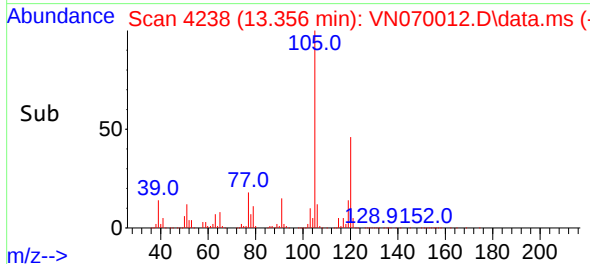
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



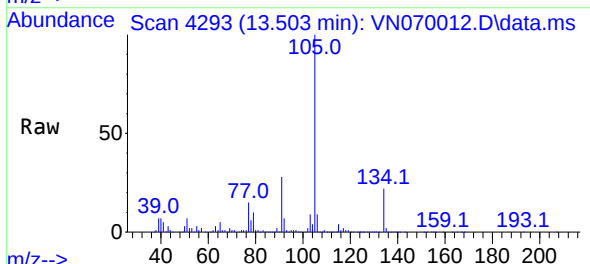
Tgt Ion:105 Resp:2107606  
Ion Ratio Lower Upper  
105 100  
120 13.3 22.8 68.4

Manual Integrations  
APPROVED

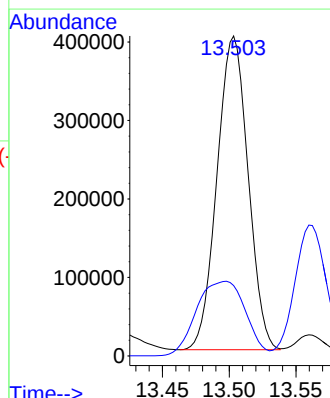
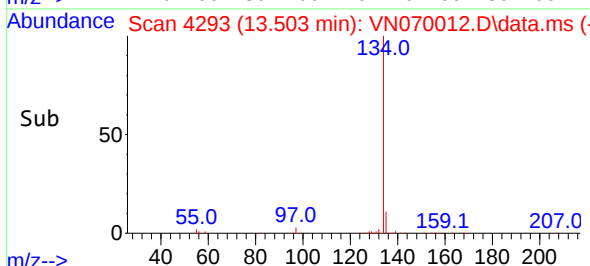
Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021

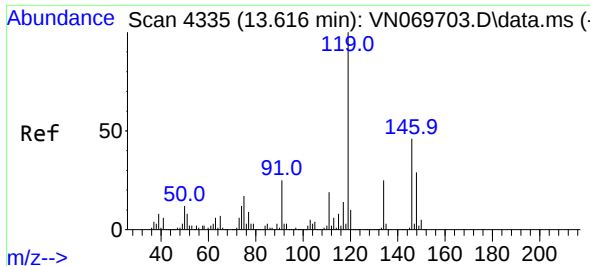


#85  
sec-Butylbenzene  
Concen: 5.557 ug/l  
RT: 13.503 min Scan# 4293  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



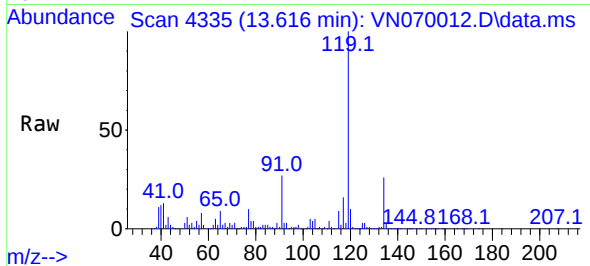
Tgt Ion:105 Resp: 647313  
Ion Ratio Lower Upper  
105 100  
134 37.3 10.4 31.1





#86  
p-Isopropyltoluene  
Concen: 4.123 ug/l m  
RT: 13.616 min Scan# 4335  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53

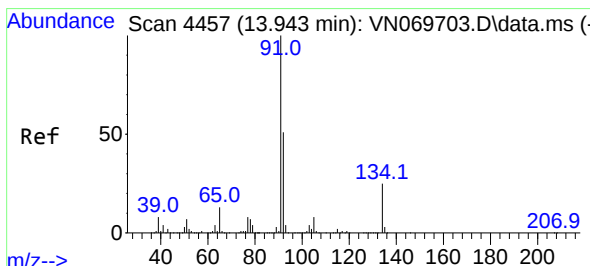
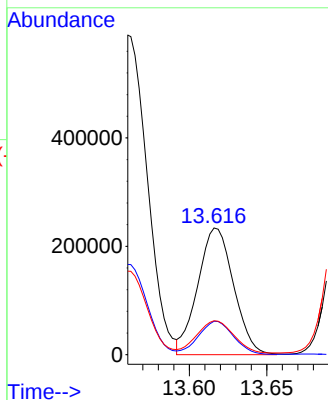
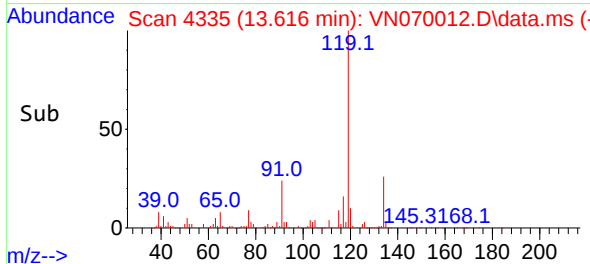
Instrument :  
MSVOA\_N  
ClientSampleId :  
A2-8-6.5



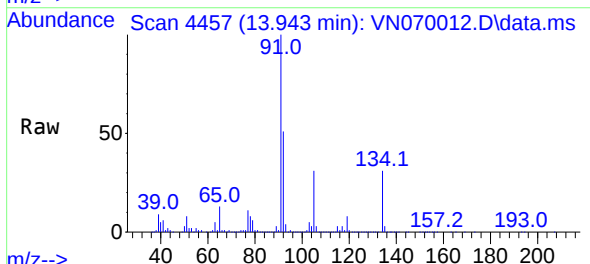
Tgt Ion:119 Resp: 37542  
Ion Ratio Lower Upper  
119 100  
134 72.8 13.6 40.7  
91 62.1 11.4 34.1

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/13/2021  
Supervised By :Mahesh Dadoda 12/28/2021



#89  
n-Butylbenzene  
Concen: 11.930 ug/l m  
RT: 13.943 min Scan# 4457  
Delta R.T. 0.000 min  
Lab File: VN070012.D  
Acq: 11 Dec 2021 16:53



Tgt Ion: 91 Resp: 881123  
Ion Ratio Lower Upper  
91 100  
92 0.0 25.4 76.0#  
134 0.0 13.6 40.8#

