

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031323\  
 Data File : VN076959.D  
 Acq On : 13 Mar 2023 14:07  
 Operator : JC\MD  
 Sample : 01854-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 33952

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/14/2023  
 Supervised By : Mahesh Dadoda 03/14/2023

Quant Time: Mar 14 07:02:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 10 13:47:39 2023  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 8.231          | 168  | 448355     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.107          | 114  | 738037     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.872         | 117  | 636990     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.795         | 152  | 279923     | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.589          | 65   | 297773     | 44.506  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 89.020% |        |          |
| 35) Dibromofluoromethane    | 8.172          | 113  | 226675     | 46.084  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 92.160% |        |          |
| 50) Toluene-d8              | 10.572         | 98   | 870698     | 48.030  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 96.060% |        |          |
| 62) 4-Bromofluorobenzene    | 12.848         | 95   | 321331     | 48.461  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 96.920% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 16) Acetone                 | 4.454          | 43   | 22122      | 9.542   | ug/l # | 87       |
| 19) Methyl tert-butyl Ether | 5.813          | 73   | 31474      | 1.786   | ug/l # | 89       |
| 22) Diisopropyl ether       | 6.690          | 45   | 5340       | 0.339   | ug/l   | 92       |
| 39) Methylcyclohexane       | 9.607          | 83   | 2449       | 0.265   | ug/l # | 82       |
| 40) Benzene                 | 8.613          | 78   | 145155     | 6.473   | ug/l   | 98       |
| 52) Toluene                 | 10.630         | 92   | 402601     | 29.172  | ug/l   | 99       |
| 67) Ethyl Benzene           | 11.966         | 91   | 50423      | 1.925   | ug/l   | 98       |
| 68) m/p-Xylenes             | 12.072         | 106  | 237608     | 24.129  | ug/l   | 87       |
| 69) o-Xylene                | 12.401         | 106  | 214814     | 22.470  | ug/l   | 82       |
| 73) Isopropylbenzene        | 12.701         | 105  | 7832       | 0.314   | ug/l   | 97       |
| 78) n-propylbenzene         | 13.036         | 91   | 6074       | 0.219   | ug/l # | 52       |
| 80) 1,3,5-Trimethylbenzene  | 13.177         | 105  | 119969     | 5.646   | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene  | 13.483         | 105  | 280716     | 13.206  | ug/l   | 94       |
| 86) p-Isopropyltoluene      | 13.730         | 119  | 4780m      | 0.239   | ug/l   |          |
| 95) Naphthalene             | 15.642         | 128  | 59059      | 3.496   | ug/l   | 96       |
| -----                       |                |      |            |         |        |          |

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

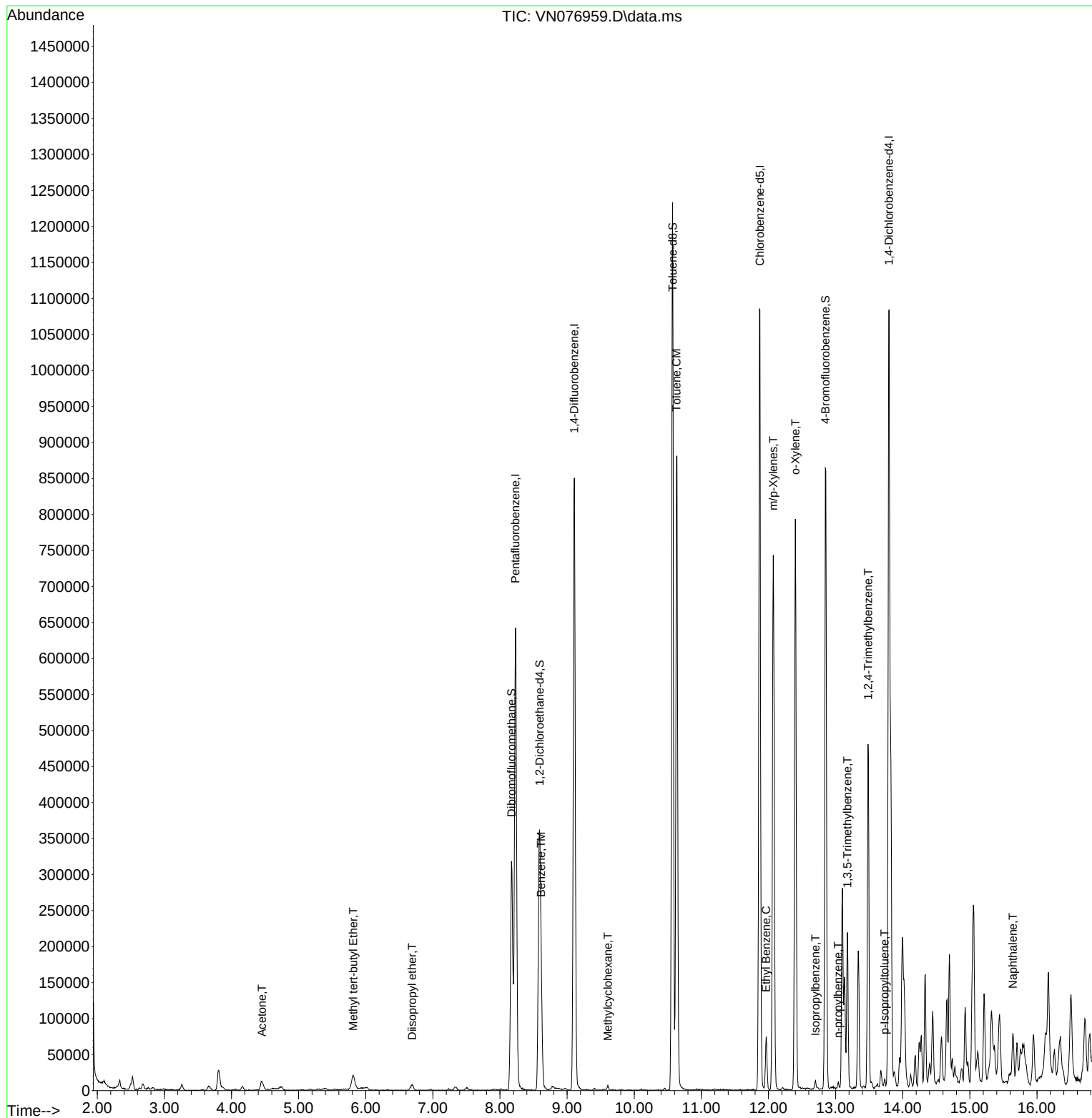
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031323\  
Data File : VN076959.D  
Acq On : 13 Mar 2023 14:07  
Operator : JC\MD  
Sample : 01854-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 11 Sample Multiplier: 1

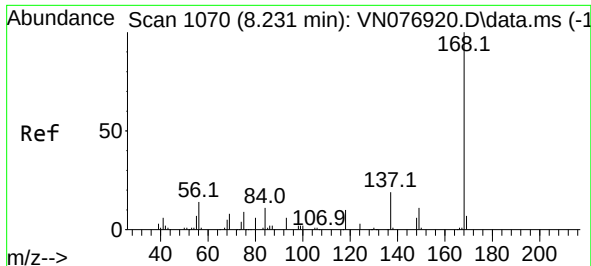
Instrument :  
MSVOA\_N  
ClientSampleId :  
33952

Manual Integrations  
APPROVED

Reviewed By : John Carlone 03/14/2023  
Supervised By : Mahesh Dadoda 03/14/2023

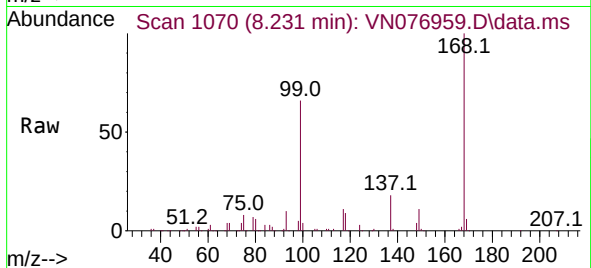
Quant Time: Mar 14 07:02:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031023W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 10 13:47:39 2023  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

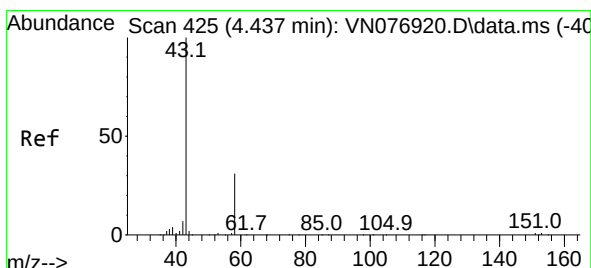
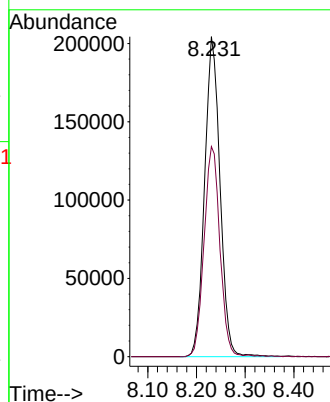
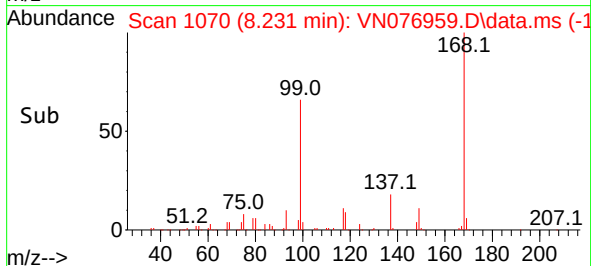
Instrument :  
MSVOA\_N  
ClientSampleId :  
33952



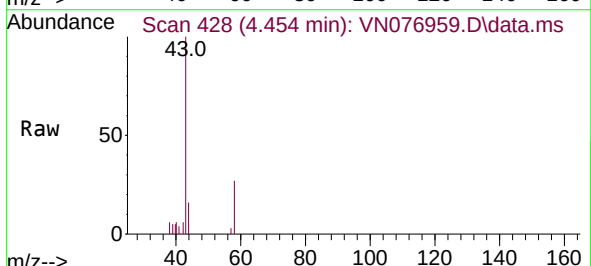
Tgt Ion:168 Resp: 44835  
Ion Ratio Lower Upper  
168 100  
99 65.6 48.6 73.0

Manual Integrations  
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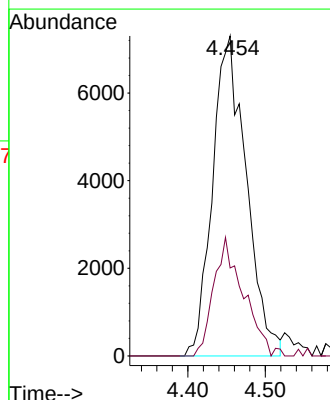
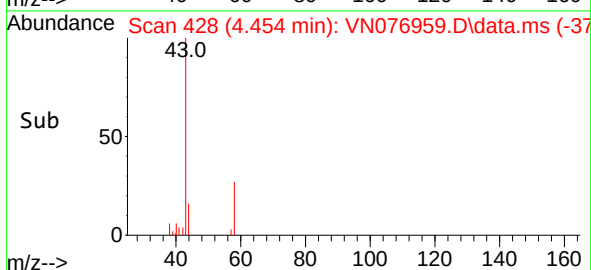
Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023

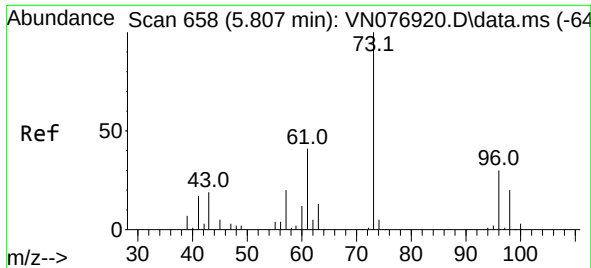


#16  
Acetone  
Concen: 9.542 ug/l  
RT: 4.454 min Scan# 428  
Delta R.T. 0.017 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07



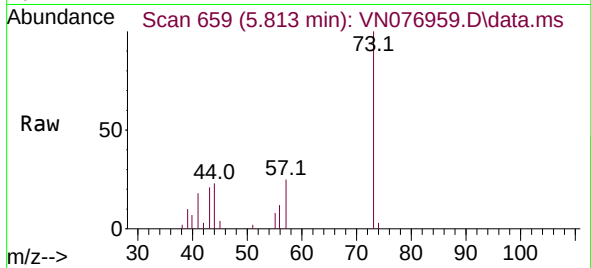
Tgt Ion: 43 Resp: 22122  
Ion Ratio Lower Upper  
43 100  
58 27.5 28.2 42.2#





#19  
Methyl tert-butyl Ether  
Concen: 1.786 ug/l  
RT: 5.813 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

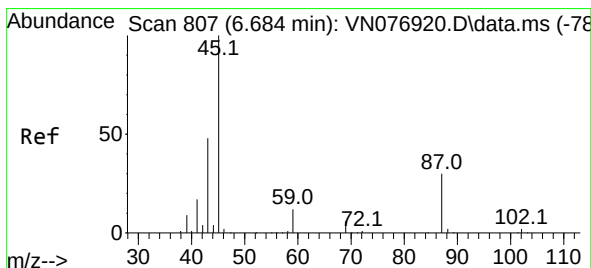
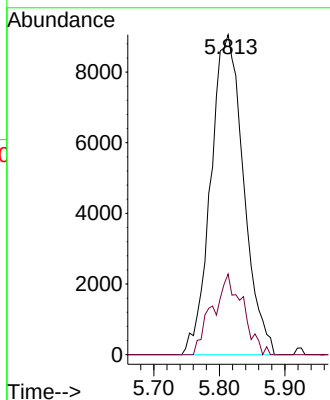
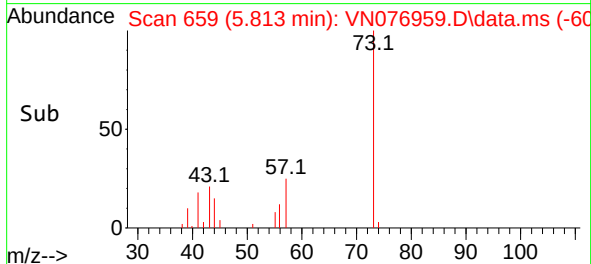
Instrument :  
MSVOA\_N  
ClientSampleId :  
33952



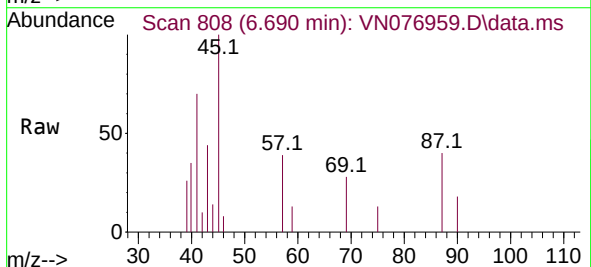
Tgt Ion: 73 Resp: 31474  
Ion Ratio Lower Upper  
73 100  
57 25.2 16.1 24.1

Manual Integrations  
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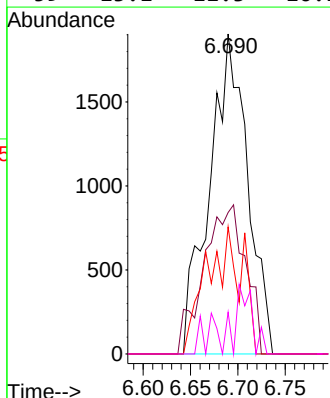
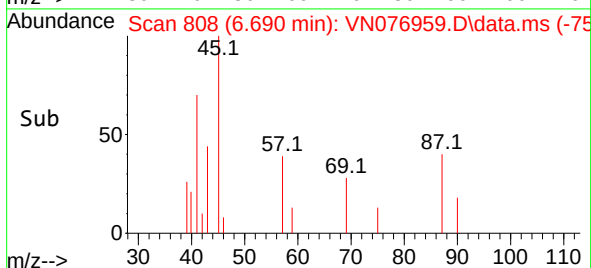
Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023

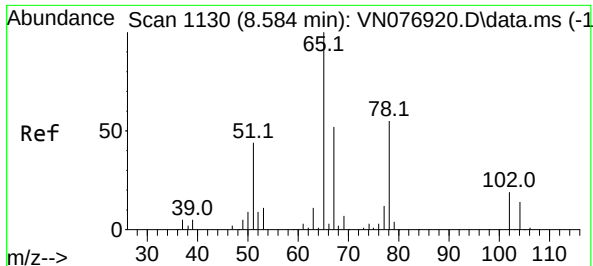


#22  
Diisopropyl ether  
Concen: 0.339 ug/l  
RT: 6.690 min Scan# 808  
Delta R.T. 0.006 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07



Tgt Ion: 45 Resp: 5340  
Ion Ratio Lower Upper  
45 100  
43 44.2 42.6 63.8  
87 39.7 29.7 44.5  
59 13.1 11.3 16.9





#33

1,2-Dichloroethane-d4

Concen: 44.506 ug/l

RT: 8.589 min Scan# 1131

Delta R.T. 0.005 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

Instrument :

MSVOA\_N

ClientSampleId :

33952

Tgt Ion: 65 Resp: 29777

Ion Ratio Lower Upper

65 100

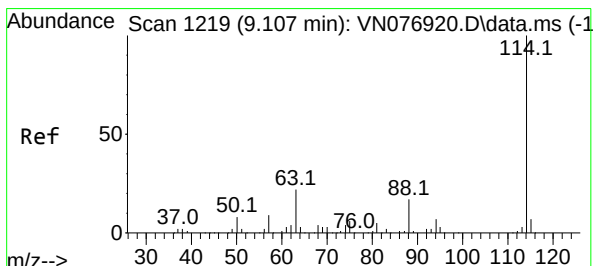
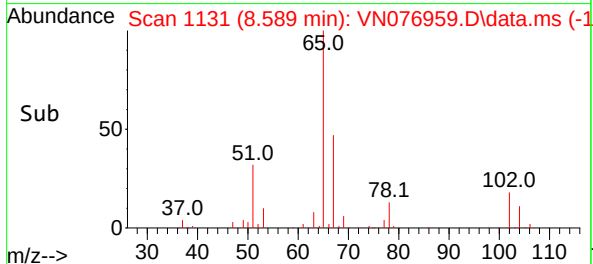
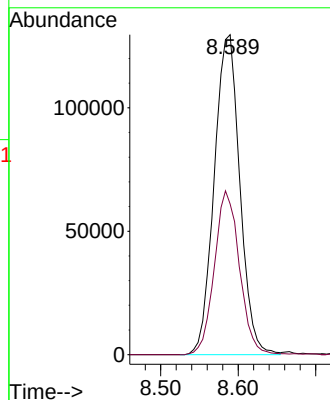
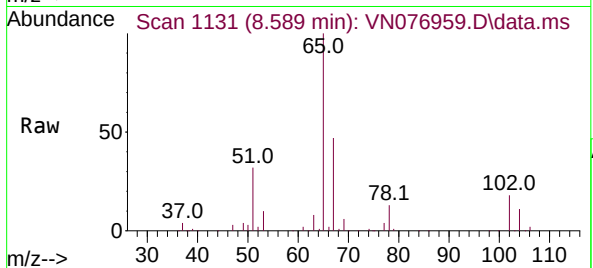
67 50.2 0.0 107.2

Manual Integrations

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Reviewed By :John Carlone 03/14/2023

Supervised By :Mahesh Dadoda 03/14/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

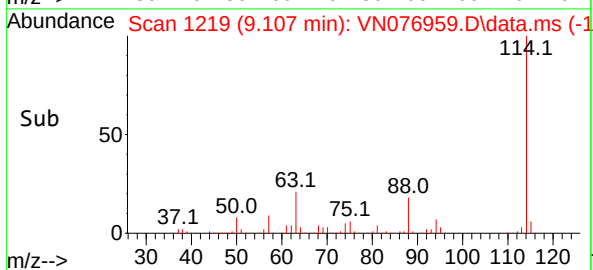
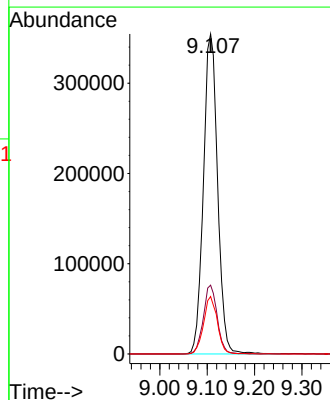
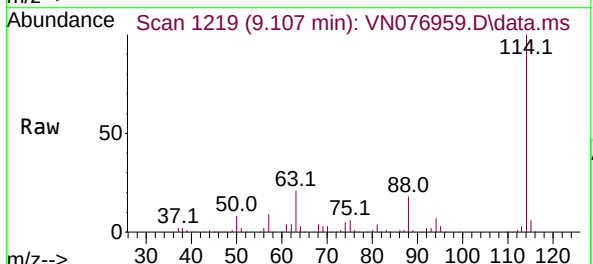
Tgt Ion:114 Resp: 738037

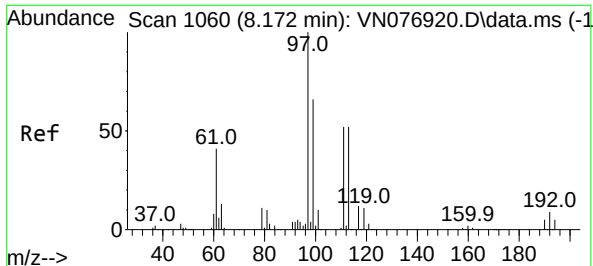
Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.6

88 18.0 0.0 28.6





#35

Dibromofluoromethane

Concen: 46.084 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

Instrument :

MSVOA\_N

ClientSampleId :

33952

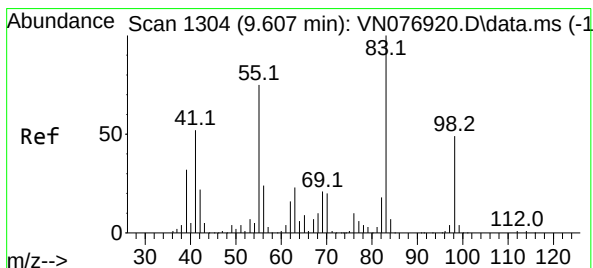
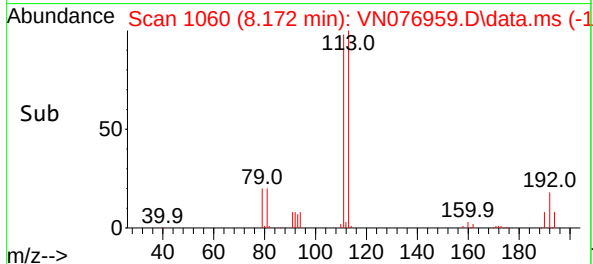
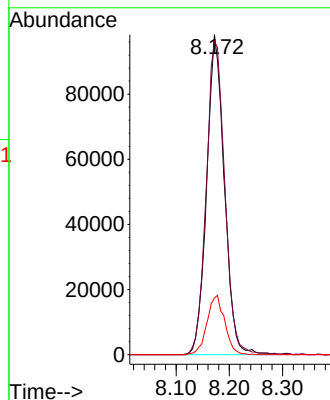
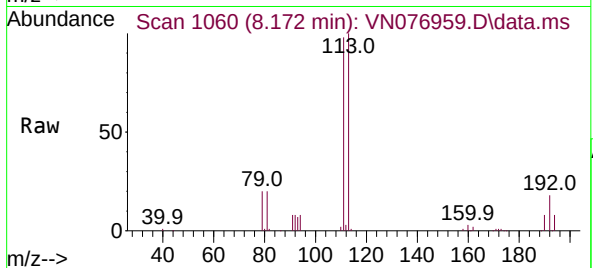
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 22667 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 103.0 | 81.8  | 122.8 |
| 192       | 18.5  | 13.9  | 20.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/14/2023

Supervised By :Mahesh Dadoda 03/14/2023



#39

Methylcyclohexane

Concen: 0.265 ug/l

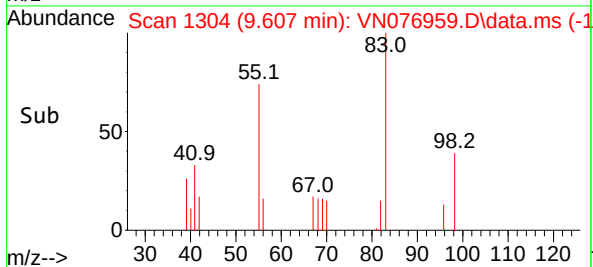
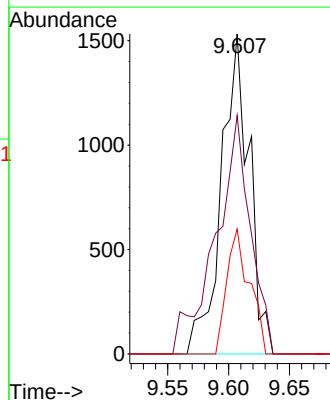
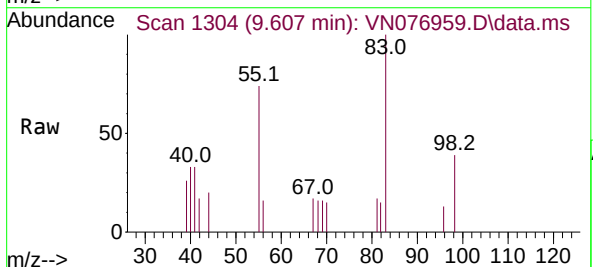
RT: 9.607 min Scan# 1304

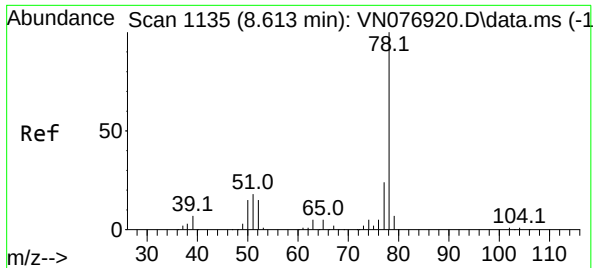
Delta R.T. 0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 2449  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 74.5  | 47.0  | 70.4# |
| 98        | 39.0  | 39.4  | 59.0# |





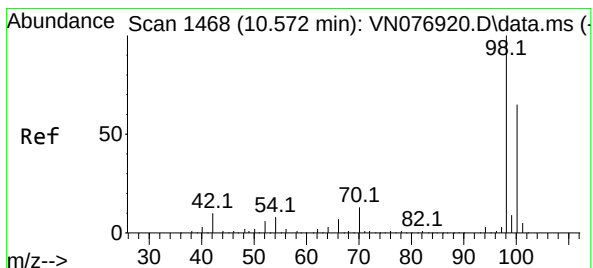
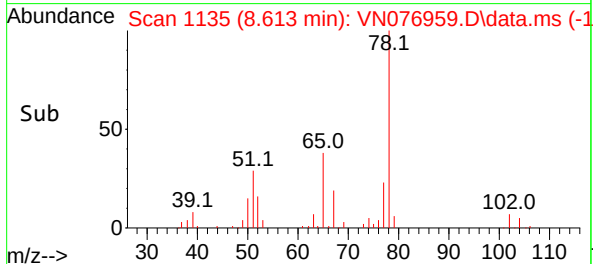
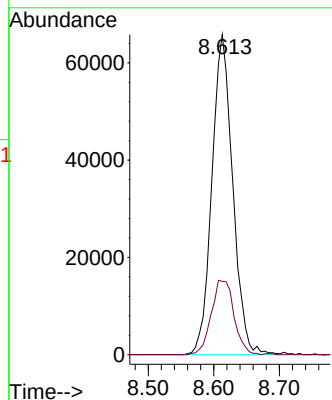
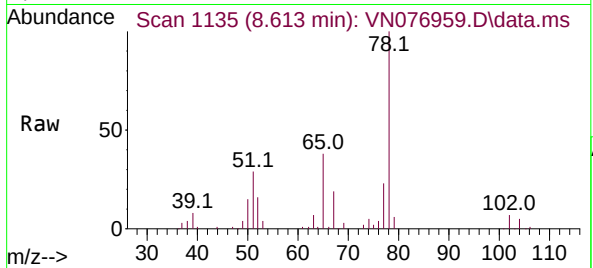
#40  
Benzene  
Concen: 6.473 ug/l  
RT: 8.613 min Scan# 1135  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
33952

Tgt Ion: 78 Resp: 14515  
Ion Ratio Lower Upper  
78 100  
77 22.9 19.3 28.9

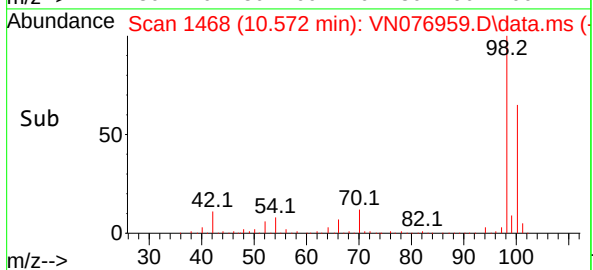
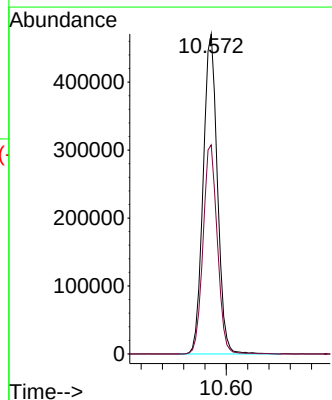
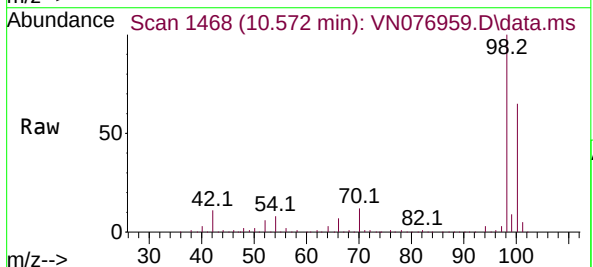
Manual Integrations  
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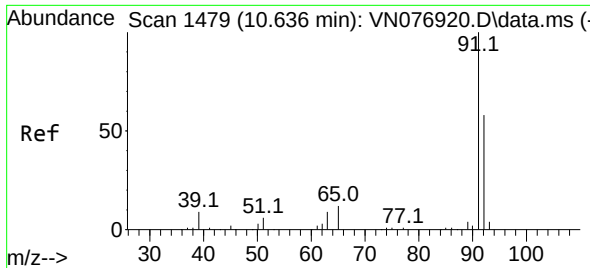
Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023



#50  
Toluene-d8  
Concen: 48.030 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

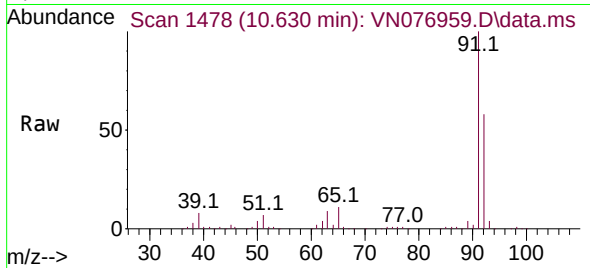
Tgt Ion: 98 Resp: 870698  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.8 79.2





#52  
Toluene  
Concen: 29.172 ug/l  
RT: 10.630 min Scan# 1479  
Delta R.T. -0.006 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

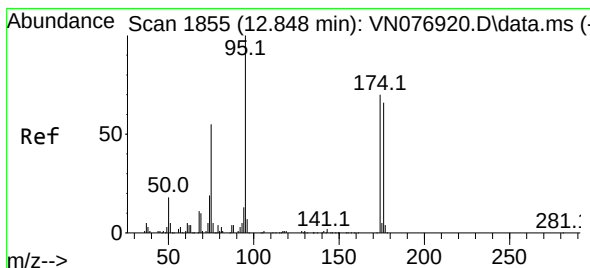
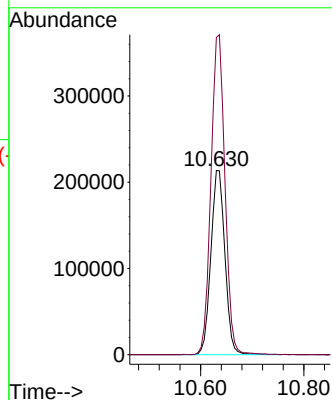
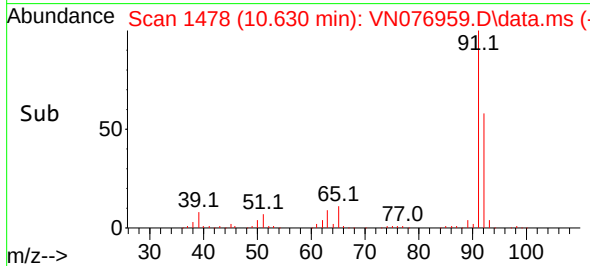
Instrument :  
MSVOA\_N  
ClientSampleId :  
33952



Tgt Ion: 92 Resp: 40260  
Ion Ratio Lower Upper  
92 100  
91 173.9 138.2 207.2

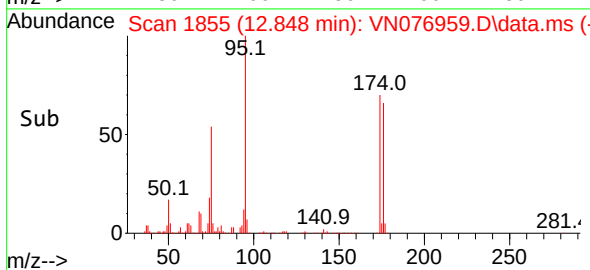
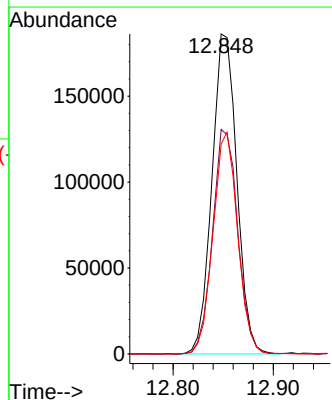
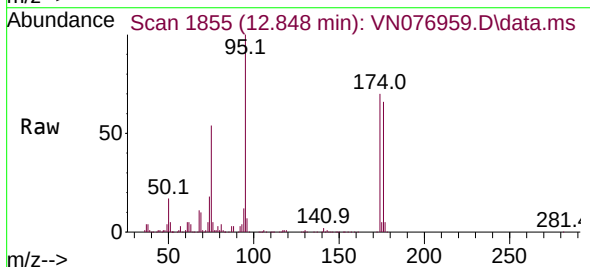
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Supervised By :Mahesh Dadoda 03/14/2023

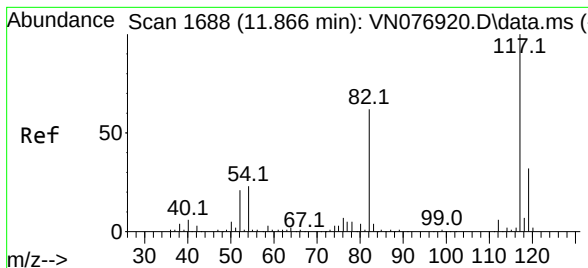


#62  
4-Bromofluorobenzene  
Concen: 48.461 ug/l  
RT: 12.848 min Scan# 1855  
Delta R.T. 0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

Tgt Ion: 95 Resp: 321331  
Ion Ratio Lower Upper  
95 100  
174 71.2 0.0 162.4  
176 68.4 0.0 157.4

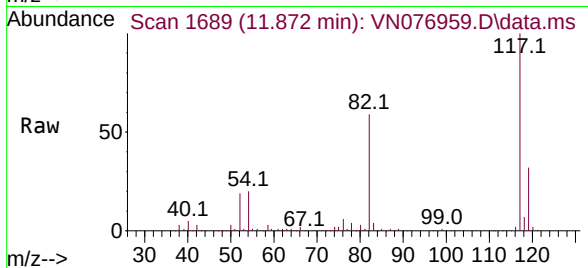






#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

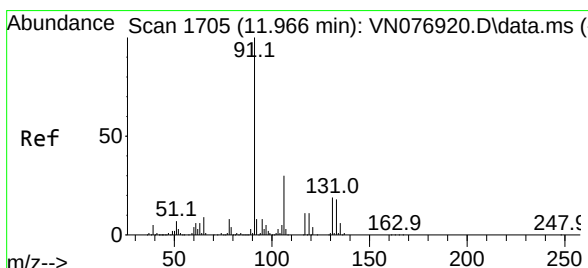
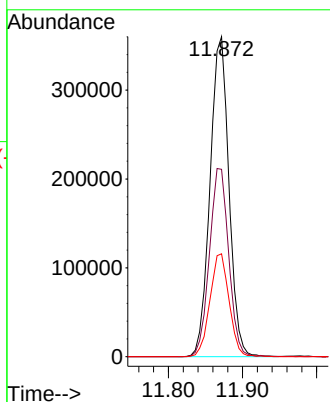
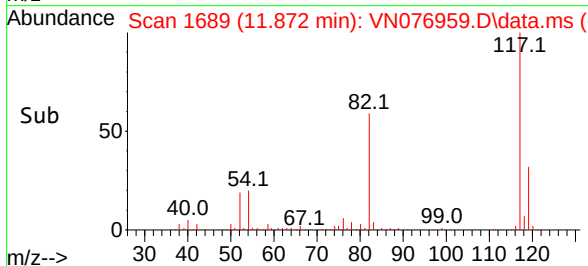
Instrument :  
MSVOA\_N  
ClientSampleId :  
33952



Tgt Ion:117 Resp: 636990  
Ion Ratio Lower Upper  
117 100  
82 58.5 43.5 65.3  
119 32.1 25.5 38.3

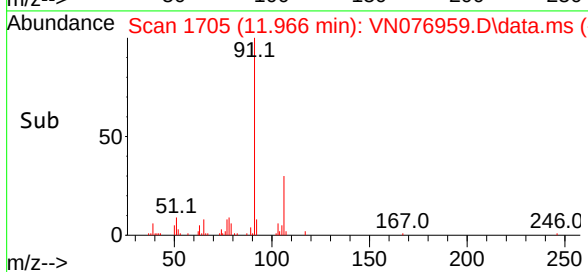
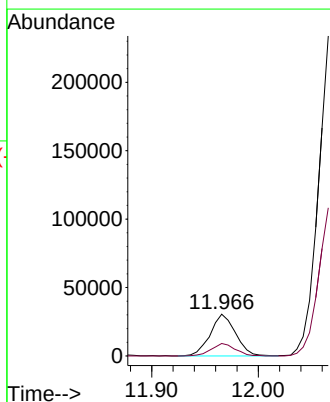
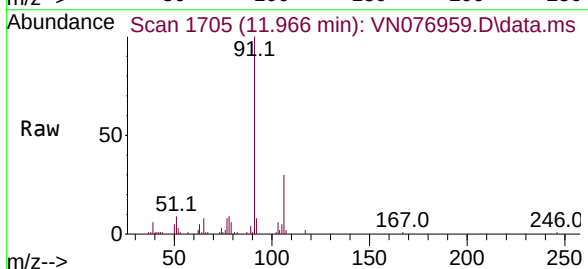
Manual Integrations  
APPROVED

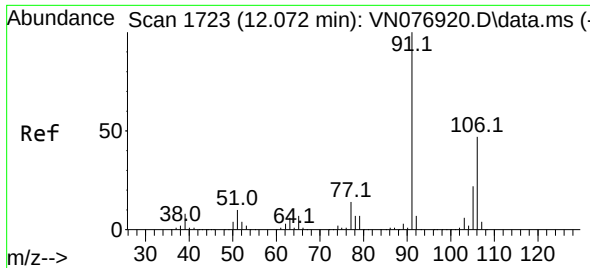
Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023



#67  
Ethyl Benzene  
Concen: 1.925 ug/l  
RT: 11.966 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

Tgt Ion: 91 Resp: 50423  
Ion Ratio Lower Upper  
91 100  
106 30.1 25.1 37.7





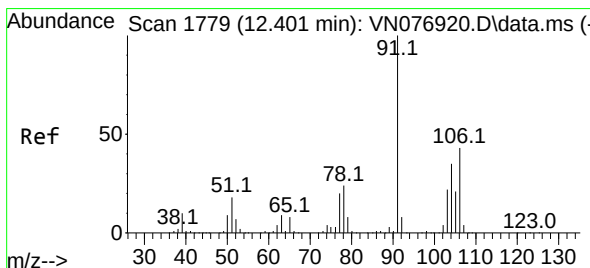
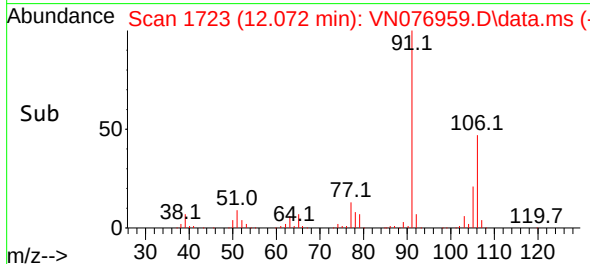
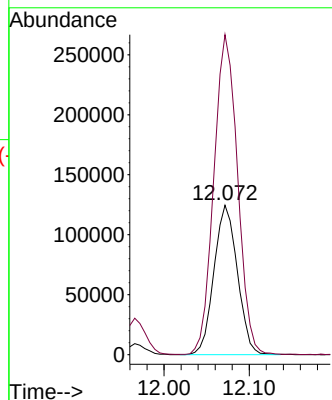
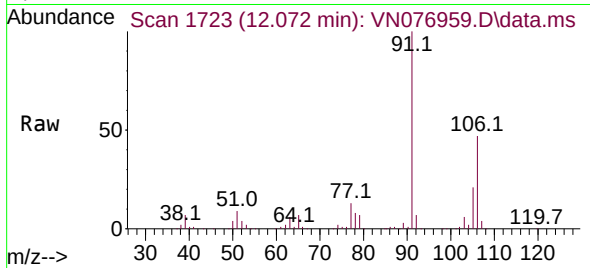
#68  
m/p-Xylenes  
Concen: 24.129 ug/l  
RT: 12.072 min Scan# 1723  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
33952

Tgt Ion:106 Resp: 237608  
Ion Ratio Lower Upper  
106 100  
91 217.0 158.0 237.0

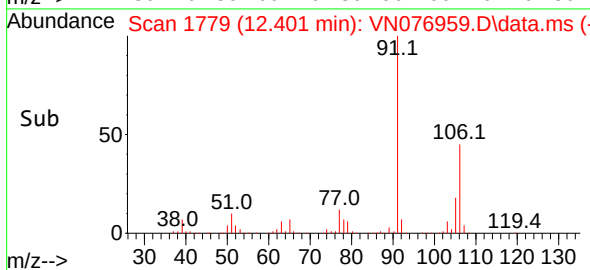
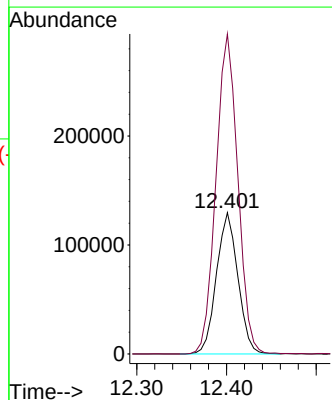
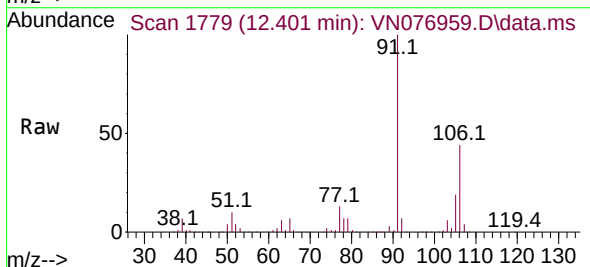
Manual Integrations  
APPROVED

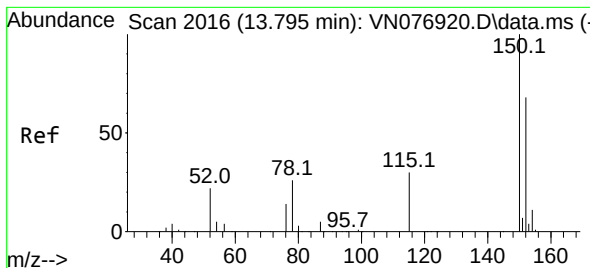
Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023



#69  
o-Xylene  
Concen: 22.470 ug/l  
RT: 12.401 min Scan# 1779  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

Tgt Ion:106 Resp: 214814  
Ion Ratio Lower Upper  
106 100  
91 231.2 101.8 305.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

Instrument :

MSVOA\_N

ClientSampleId :

33952

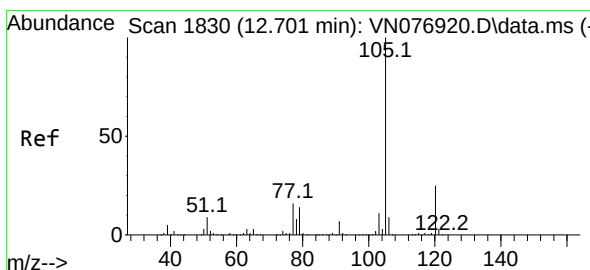
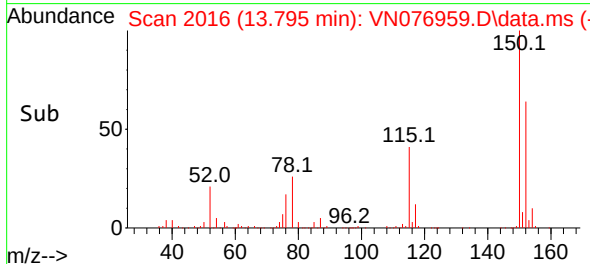
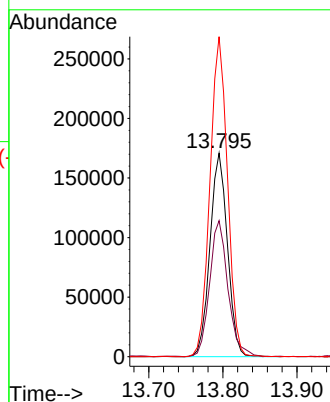
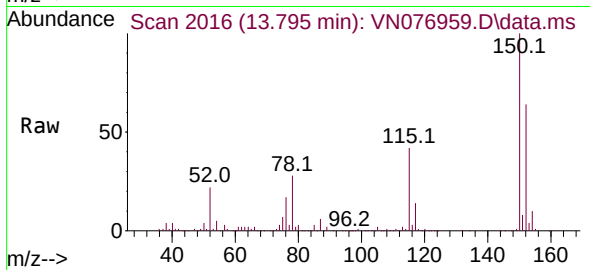
Tgt Ion:152 Resp: 27992  
 Ion Ratio Lower Upper  
 152 100  
 115 70.3 30.3 90.9  
 150 157.3 0.0 353.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/14/2023

Supervised By :Mahesh Dadoda 03/14/2023



#73

Isopropylbenzene

Concen: 0.314 ug/l

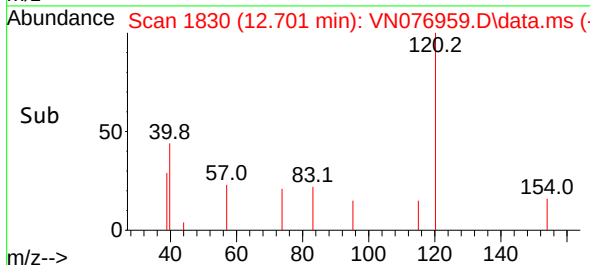
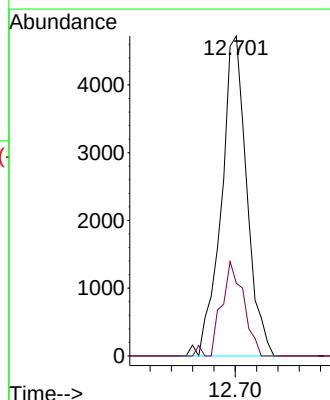
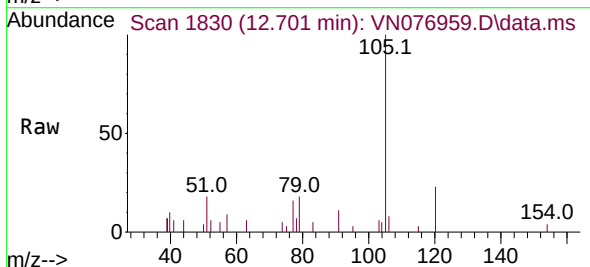
RT: 12.701 min Scan# 1830

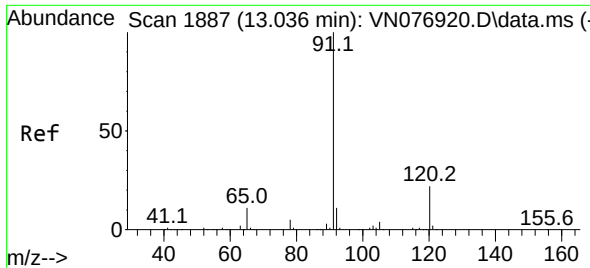
Delta R.T. -0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

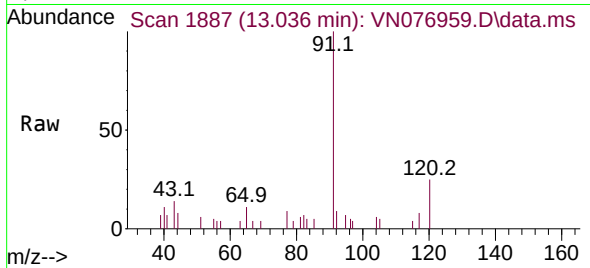
Tgt Ion:105 Resp: 7832  
 Ion Ratio Lower Upper  
 105 100  
 120 25.8 13.8 41.4





#78  
n-propylbenzene  
Concen: 0.219 ug/l  
RT: 13.036 min Scan# 1887  
Delta R.T. 0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

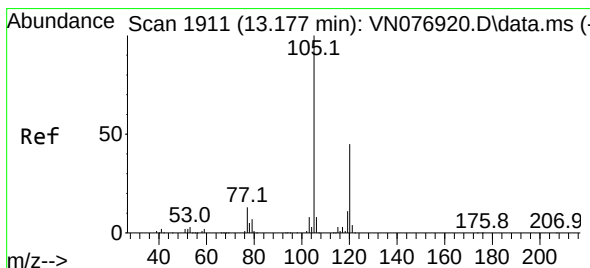
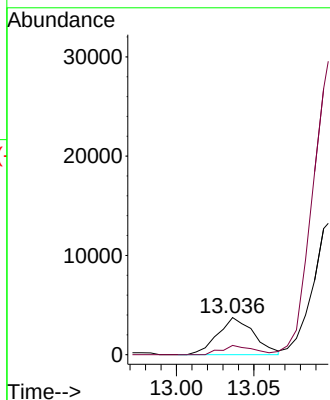
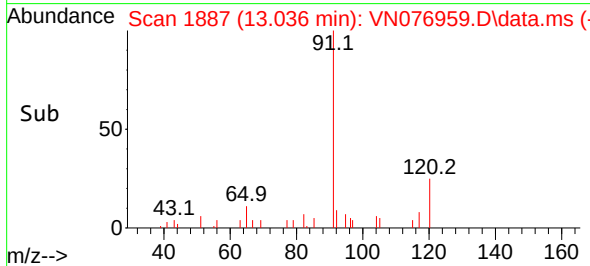
Instrument :  
MSVOA\_N  
ClientSampleId :  
33952



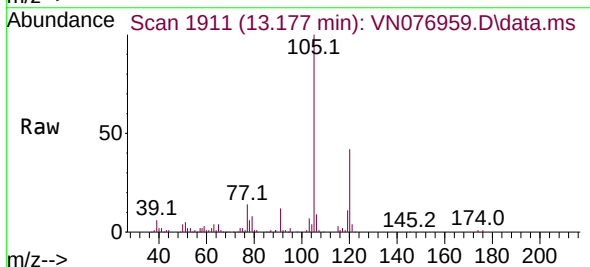
Tgt Ion: 91 Resp: 6074  
Ion Ratio Lower Upper  
91 100  
120 0.0 11.9 35.7

Manual Integrations  
APPROVED

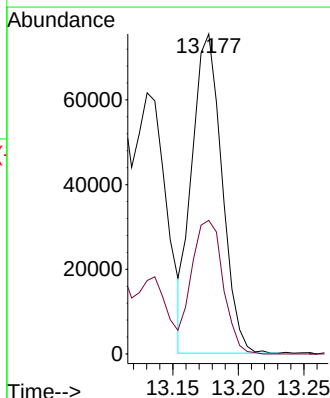
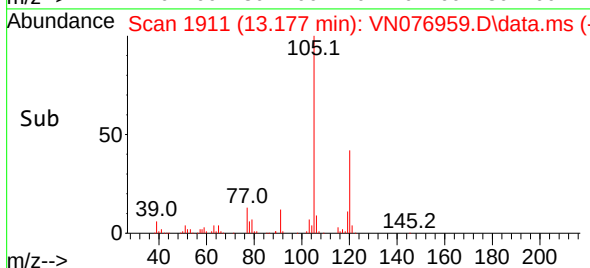
Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023

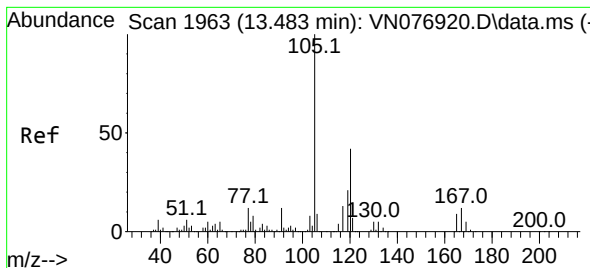


#80  
1,3,5-Trimethylbenzene  
Concen: 5.646 ug/l  
RT: 13.177 min Scan# 1911  
Delta R.T. 0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07



Tgt Ion:105 Resp: 119969  
Ion Ratio Lower Upper  
105 100  
120 43.8 25.2 75.6





#84

1,2,4-Trimethylbenzene

Concen: 13.206 ug/l

RT: 13.483 min Scan# 1963

Delta R.T. 0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

Instrument :

MSVOA\_N

ClientSampleId :

33952

Tgt Ion:105 Resp: 280710

Ion Ratio Lower Upper

105 100

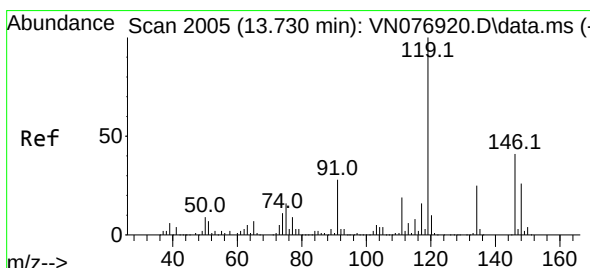
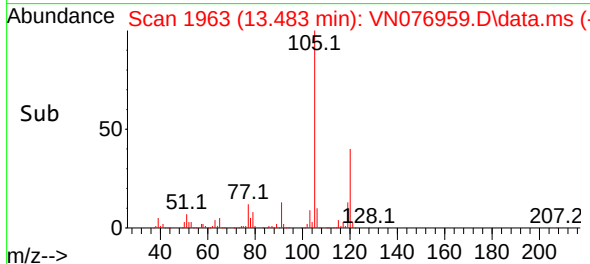
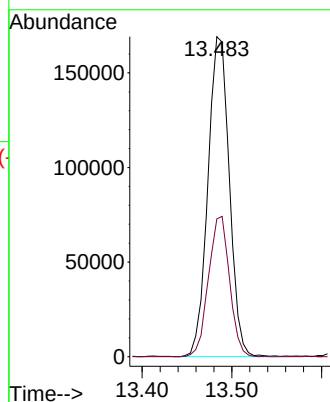
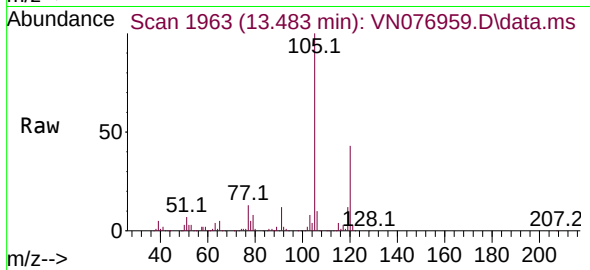
120 43.1 23.6 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/14/2023

Supervised By :Mahesh Dadoda 03/14/2023



#86

p-Isopropyltoluene

Concen: 0.239 ug/l m

RT: 13.730 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VN076959.D

Acq: 13 Mar 2023 14:07

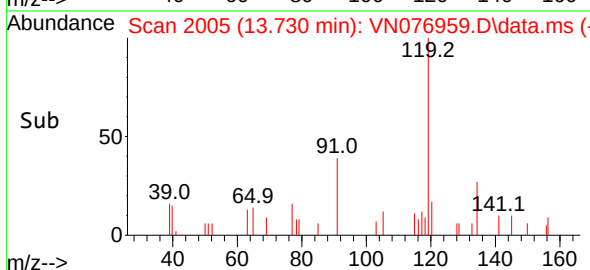
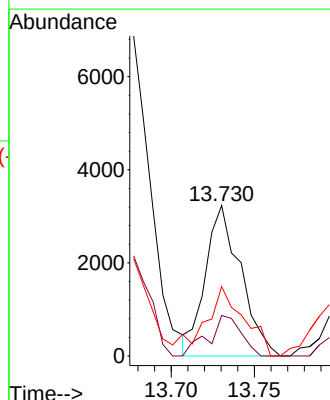
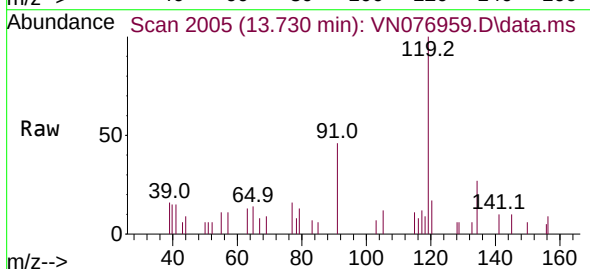
Tgt Ion:119 Resp: 4780

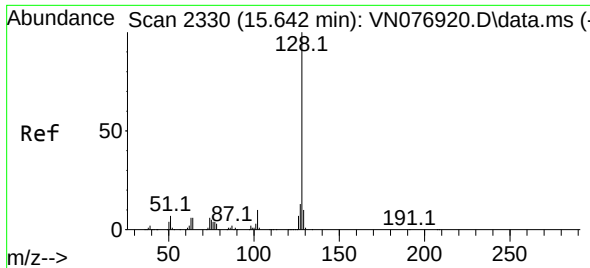
Ion Ratio Lower Upper

119 100

134 76.6 13.5 40.5#

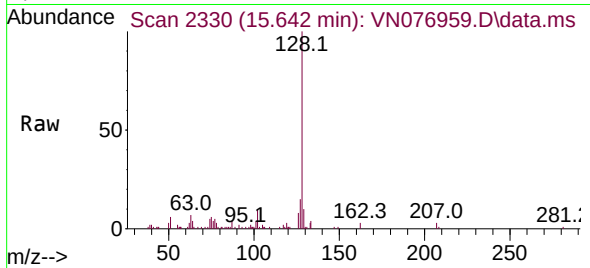
91 64.0 11.2 33.6#





#95  
Naphthalene  
Concen: 3.496 ug/l  
RT: 15.642 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN076959.D  
Acq: 13 Mar 2023 14:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
33952



Tgt Ion:128 Resp: 59059  
Ion Ratio Lower Upper  
128 100  
127 14.4 10.2 15.4  
129 12.5 8.9 13.3

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/14/2023  
Supervised By :Mahesh Dadoda 03/14/2023

