

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061323\  
 Data File : VN078182.D  
 Acq On : 13 Jun 2023 13:36  
 Operator : JC\MD  
 Sample : 03172-01  
 Misc : 5.04g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BUR-1578

Quant Time: Jun 14 02:18:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 06/14/2023  
 Supervised By : Mahesh Dadoda 06/14/2023

| Compound                    | R.T.           | QIon | Response            | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|----------|--------|----------|
| -----                       |                |      |                     |          |        |          |
| Internal Standards          |                |      |                     |          |        |          |
| 1) Pentafluorobenzene       | 8.229          | 168  | 552611              | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.106          | 114  | 989354              | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.870         | 117  | 909624              | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.800         | 152  | 443899              | 50.000   | ug/l   | 0.00     |
|                             |                |      |                     |          |        |          |
| System Monitoring Compounds |                |      |                     |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.582          | 65   | 369140              | 50.100   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = 100.200% |          |        |          |
| 35) Dibromofluoromethane    | 8.171          | 113  | 328029              | 52.438   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = 104.880% |          |        |          |
| 50) Toluene-d8              | 10.570         | 98   | 1157898             | 48.014   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = 96.020%  |          |        |          |
| 62) 4-Bromofluorobenzene    | 12.853         | 95   | 458213              | 61.119   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = 122.240% |          |        |          |
|                             |                |      |                     |          |        |          |
| Target Compounds            |                |      |                     |          | Qvalue |          |
| 11) Tert butyl alcohol      | 5.594          | 59   | 39451m              | 38.778   | ug/l   |          |
| 16) Acetone                 | 4.441          | 43   | 12197889            | 5751.604 | ug/l   | 98       |
| 18) Methyl Acetate          | 5.036          | 43   | 27941               | 2.862    | ug/l   | 91       |
| 25) 2-Butanone              | 7.506          | 43   | 10753               | 3.297    | ug/l # | 85       |
| 39) Methylcyclohexane       | 9.600          | 83   | 105314              | 11.325   | ug/l   | 92       |
| 48) Methyl methacrylate     | 9.688          | 41   | 66673               | 11.851   | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone    | 10.453         | 43   | 186259              | 26.385   | ug/l   | 94       |
| 52) Toluene                 | 10.635         | 92   | 7085172             | 418.917  | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.970         | 91   | 119942              | 3.568    | ug/l   | 96       |
| 68) m/p-Xylenes             | 12.076         | 106  | 185139              | 14.453   | ug/l   | 98       |
| 69) o-Xylene                | 12.406         | 106  | 98993               | 7.869    | ug/l   | 92       |
| 73) Isopropylbenzene        | 12.700         | 105  | 44567               | 1.062    | ug/l   | 95       |
| 78) n-propylbenzene         | 13.041         | 91   | 211505              | 4.638    | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 13.176         | 105  | 325764              | 9.586    | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.488         | 105  | 1365151             | 41.432   | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.617         | 105  | 133282              | 3.447    | ug/l   | 80       |
| 86) p-Isopropyltoluene      | 13.735         | 119  | 233845              | 7.453    | ug/l   | 97       |
| 89) n-Butylbenzene          | 14.058         | 91   | 280034              | 11.315   | ug/l # | 79       |
| 95) Naphthalene             | 15.647         | 128  | 471543              | 24.424   | ug/l   | 96       |
| -----                       |                |      |                     |          |        |          |

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

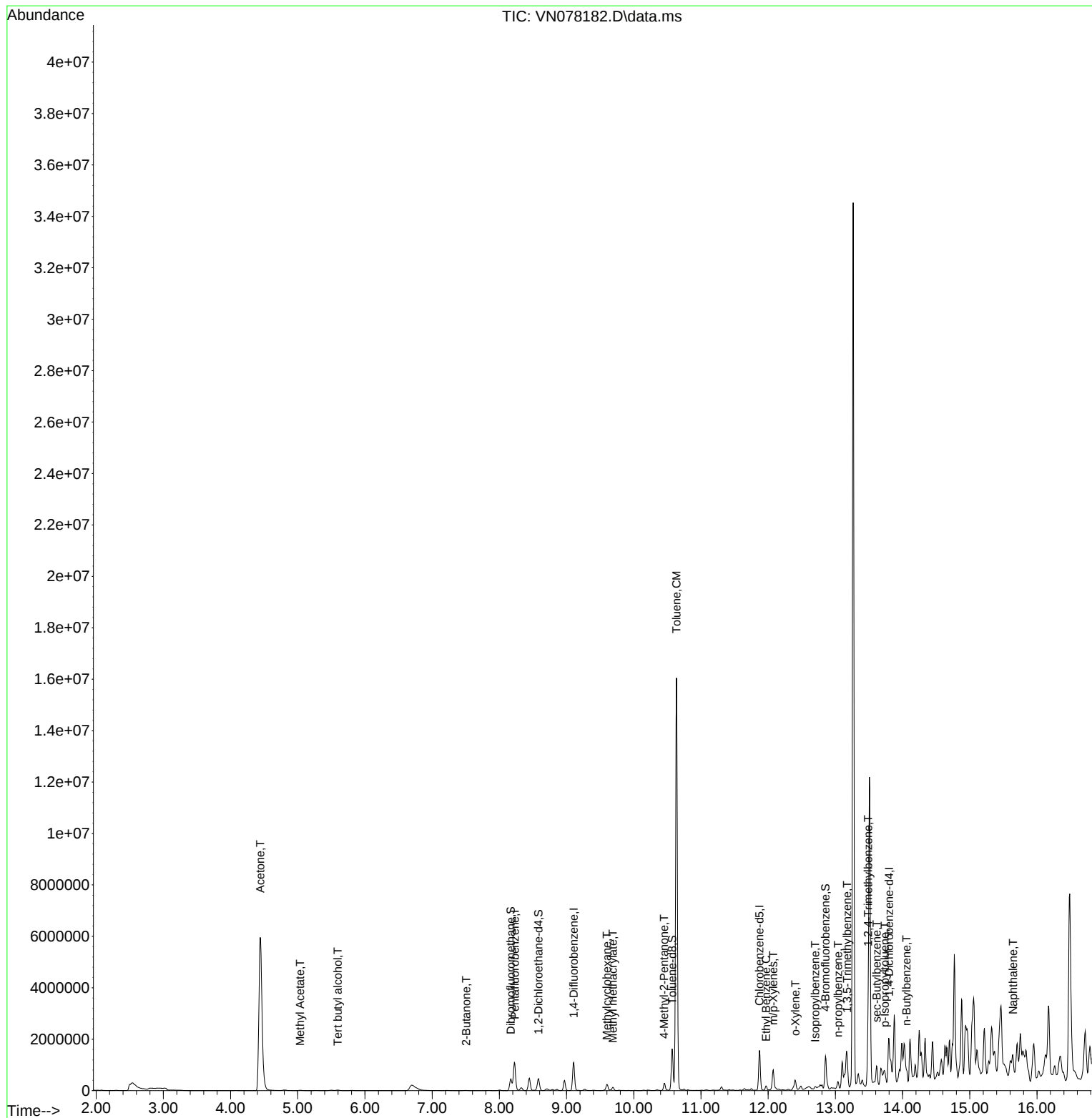
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061323\  
Data File : VN078182.D  
Acq On : 13 Jun 2023 13:36  
Operator : JC\MD  
Sample : 03172-01  
Misc : 5.04g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 8 Sample Multiplier: 1

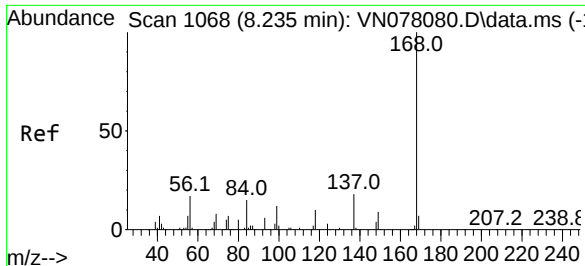
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578

Manual Integrations  
APPROVED

Reviewed By : John Carlone 06/14/2023  
Supervised By : Mahesh Dadoda 06/14/2023

Quant Time: Jun 14 02:18:33 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 07 05:05:00 2023  
Response via : Initial Calibration





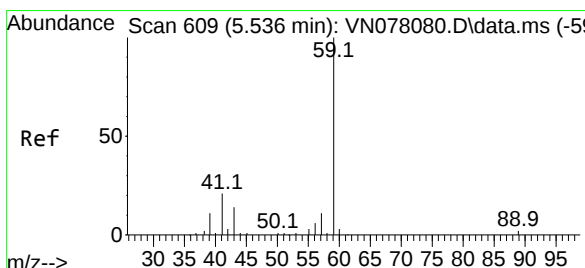
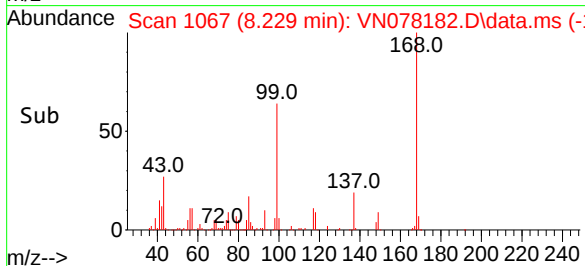
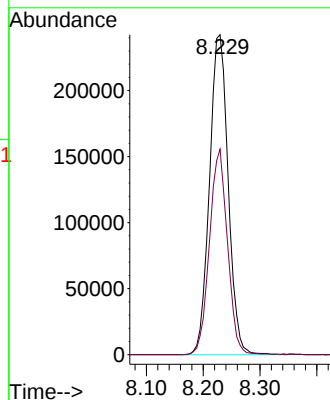
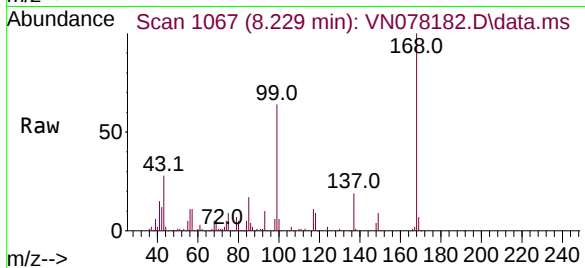
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578

Tgt Ion:168 Resp: 55261  
Ion Ratio Lower Upper  
168 100  
99 64.2 53.0 79.6

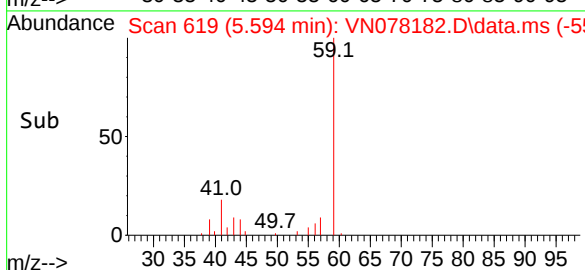
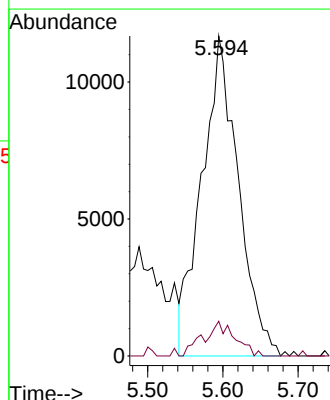
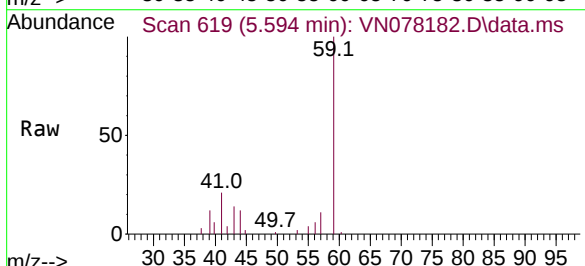
Manual Integrations  
APPROVED

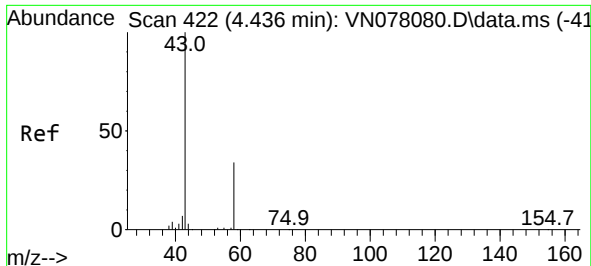
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023



#11  
Tert butyl alcohol  
Concen: 38.778 ug/l m  
RT: 5.594 min Scan# 619  
Delta R.T. 0.059 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

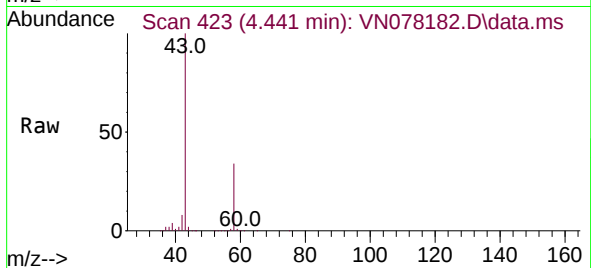
Tgt Ion: 59 Resp: 39451  
Ion Ratio Lower Upper  
59 100  
57 0.5 8.2 12.4#





#16  
Acetone  
Concen: 5751.604 ug/l  
RT: 4.441 min Scan# 423  
Delta R.T. 0.006 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

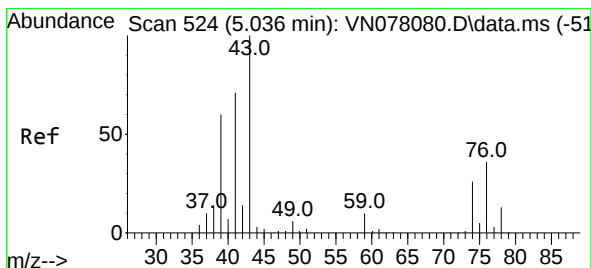
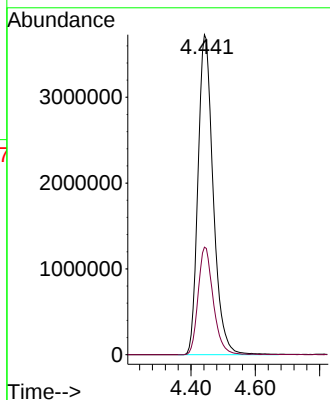
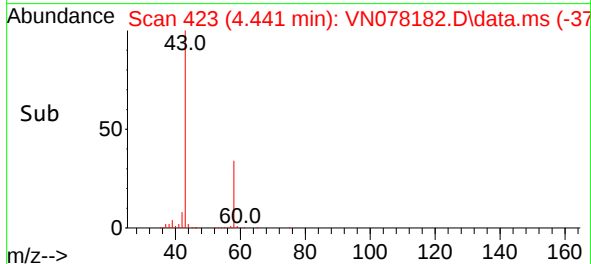
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578



Tgt Ion: 43 Resp: 12197889  
Ion Ratio Lower Upper  
43 100  
58 33.6 28.0 42.0

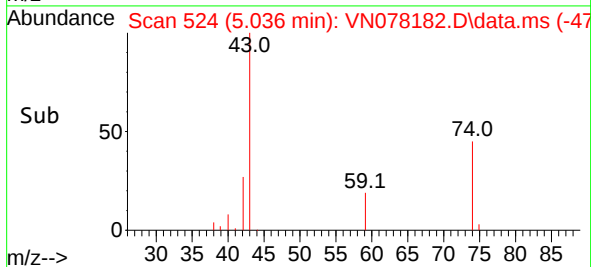
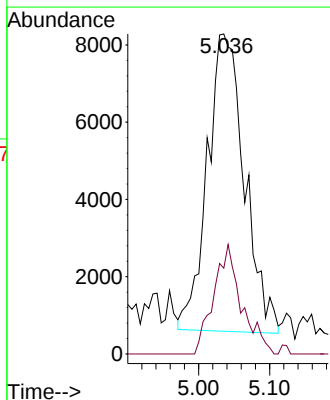
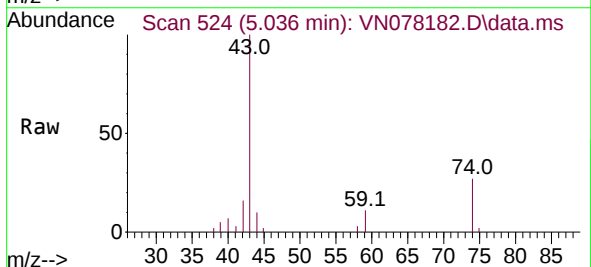
Manual Integrations  
APPROVED

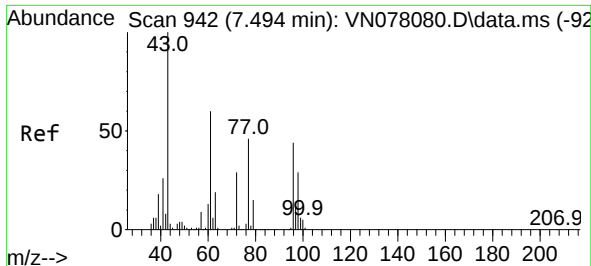
Reviewed By : John Carlone 06/14/2023  
Supervised By : Mahesh Dadoda 06/14/2023



#18  
Methyl Acetate  
Concen: 2.862 ug/l  
RT: 5.036 min Scan# 524  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Tgt Ion: 43 Resp: 27941  
Ion Ratio Lower Upper  
43 100  
74 27.5 26.2 39.4





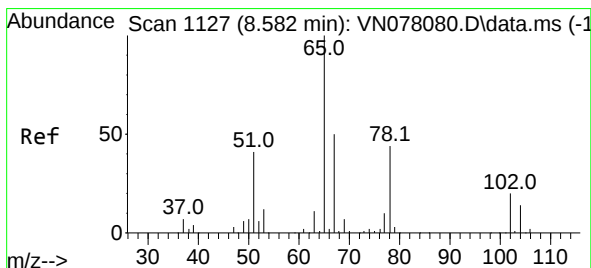
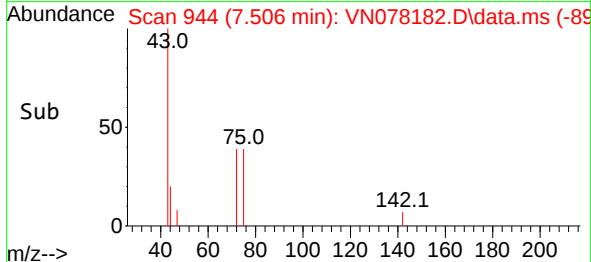
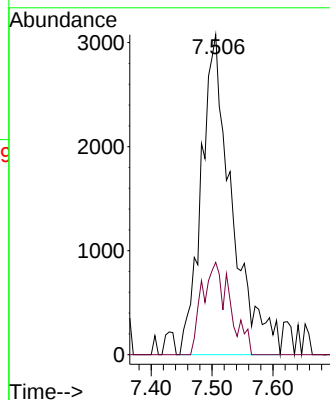
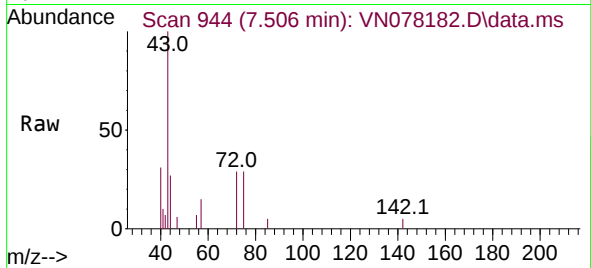
#25  
2-Butanone  
Concen: 3.297 ug/l  
RT: 7.506 min Scan# 944  
Delta R.T. 0.012 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578

Tgt Ion: 43 Resp: 1075  
Ion Ratio Lower Upper  
43 100  
72 28.8 30.2 45.2

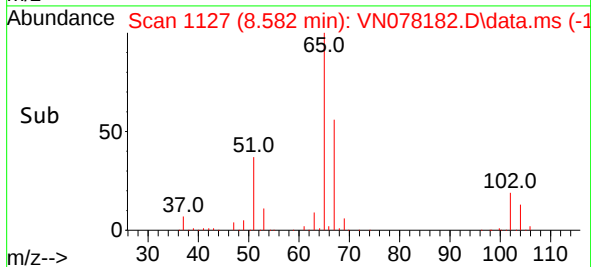
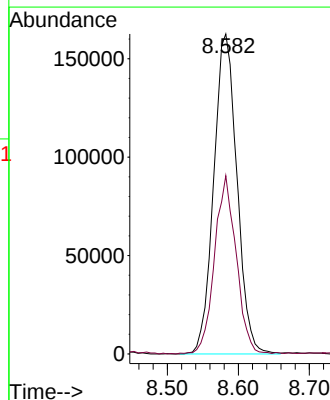
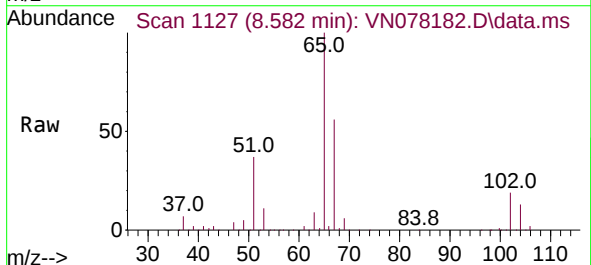
Manual Integrations  
APPROVED

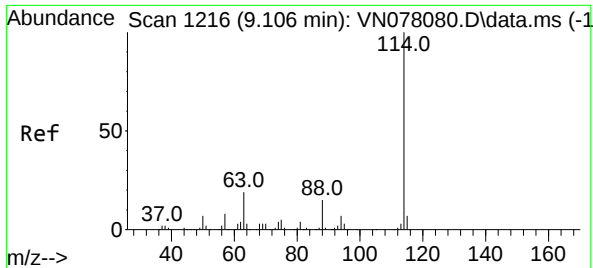
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023



#33  
1,2-Dichloroethane-d4  
Concen: 50.100 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

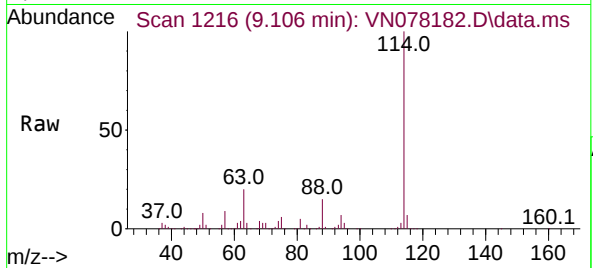
Tgt Ion: 65 Resp: 369140  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 106.6





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

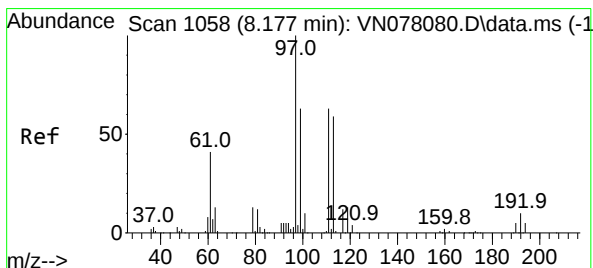
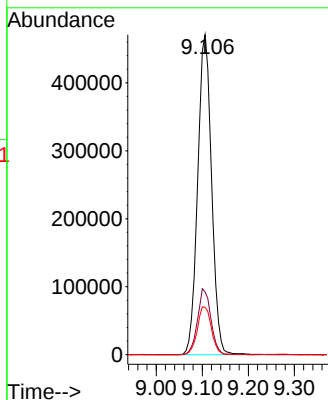
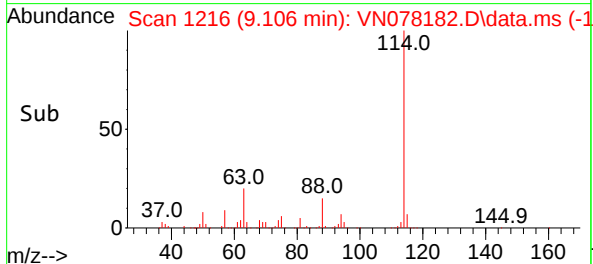
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578



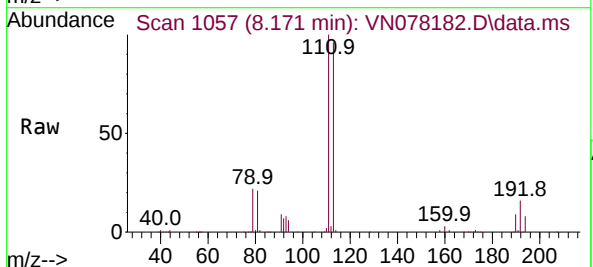
Tgt Ion:114 Resp: 989354  
Ion Ratio Lower Upper  
114 100  
63 19.6 0.0 36.4  
88 14.8 0.0 30.6

Manual Integrations  
APPROVED

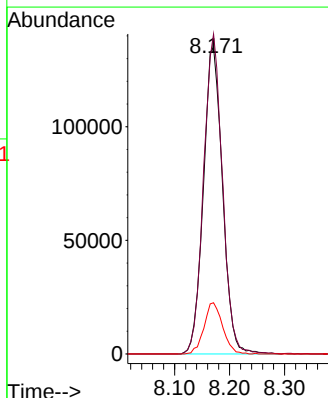
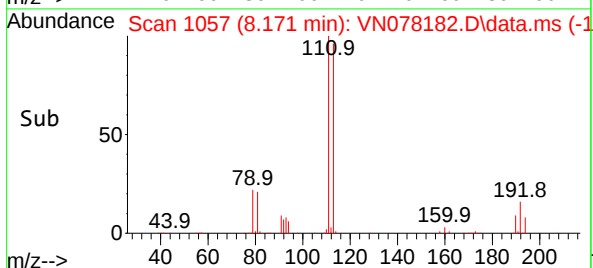
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023

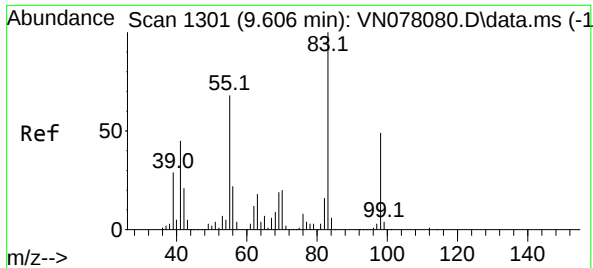


#35  
Dibromofluoromethane  
Concen: 52.438 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36



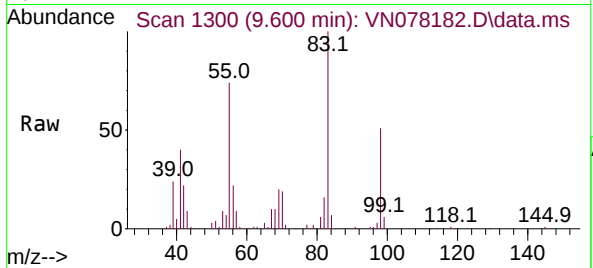
Tgt Ion:113 Resp: 328029  
Ion Ratio Lower Upper  
113 100  
111 102.5 82.6 123.8  
192 16.2 12.7 19.1





#39  
Methylcyclohexane  
Concen: 11.325 ug/l  
RT: 9.600 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

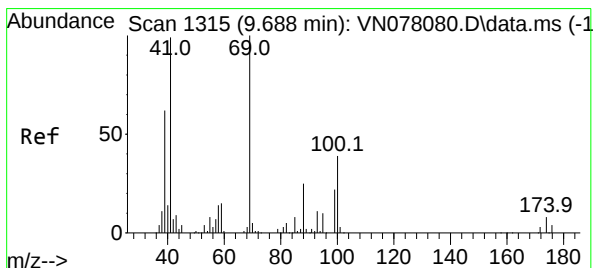
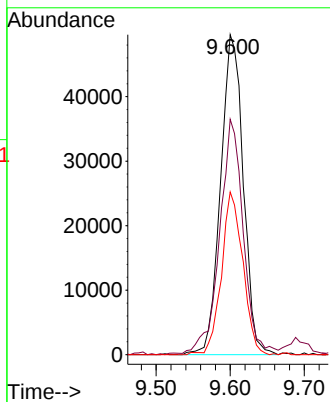
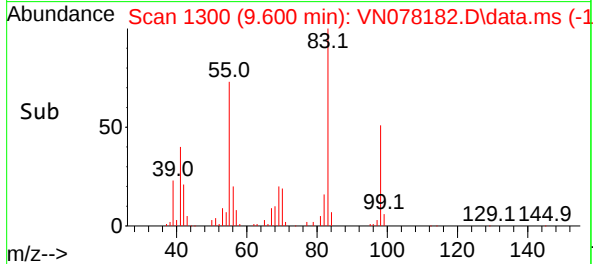
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578



Tgt Ion: 83 Resp: 105314  
Ion Ratio Lower Upper  
83 100  
55 73.1 49.1 73.7  
98 50.8 40.6 61.0

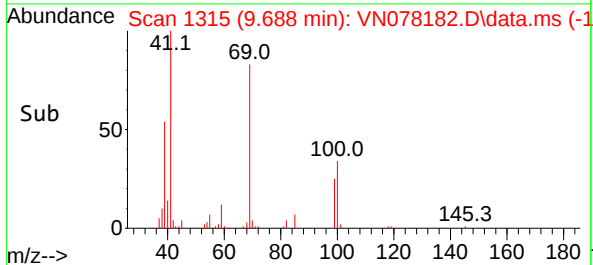
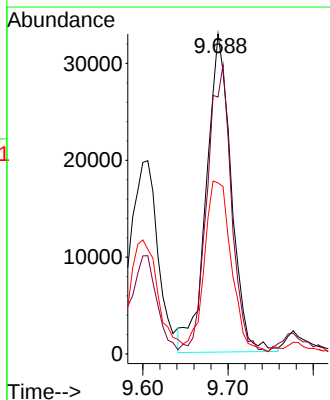
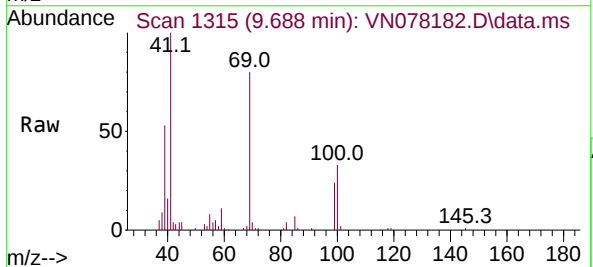
Manual Integrations  
APPROVED

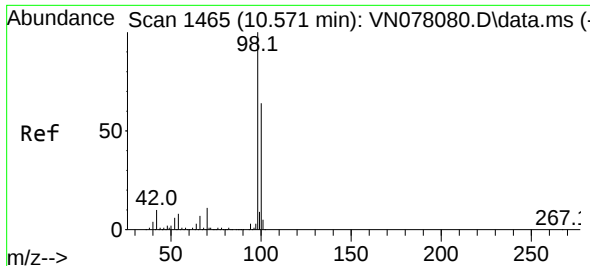
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023



#48  
Methyl methacrylate  
Concen: 11.851 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

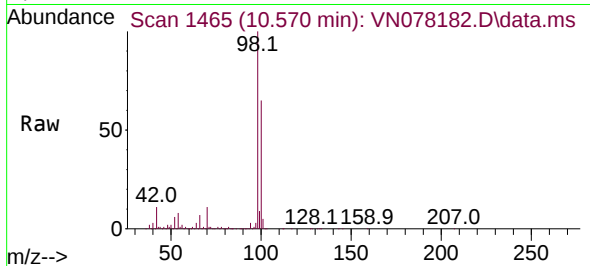
Tgt Ion: 41 Resp: 66673  
Ion Ratio Lower Upper  
41 100  
69 88.2 90.4 135.6#  
39 58.4 54.6 81.8





#50  
Toluene-d8  
Concen: 48.014 ug/l  
RT: 10.570 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

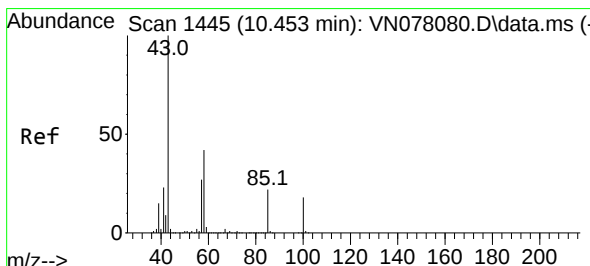
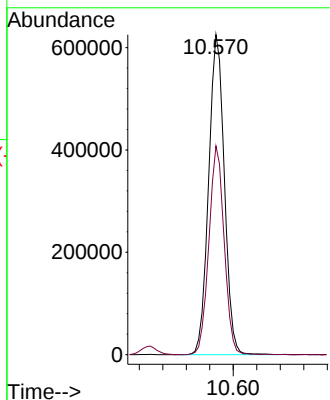
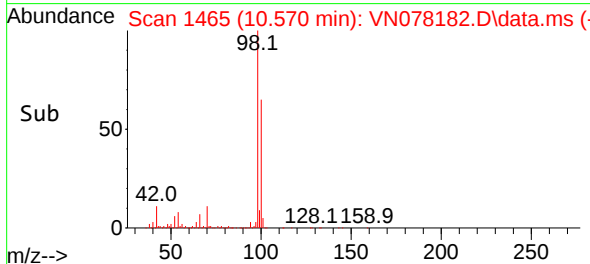
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578



Tgt Ion: 98 Resp: 1157898  
Ion Ratio Lower Upper  
98 100  
100 63.4 52.0 78.0

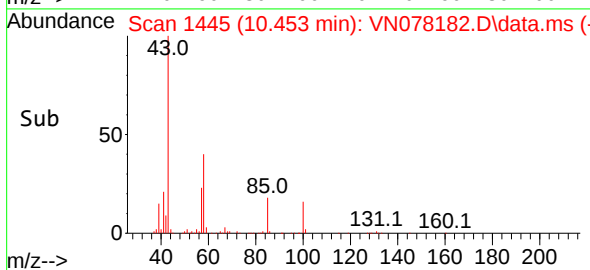
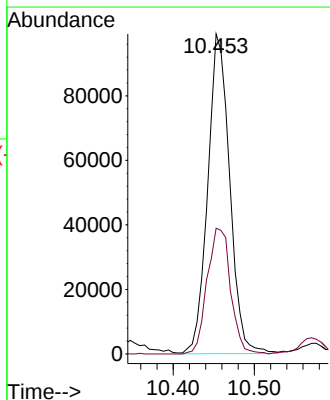
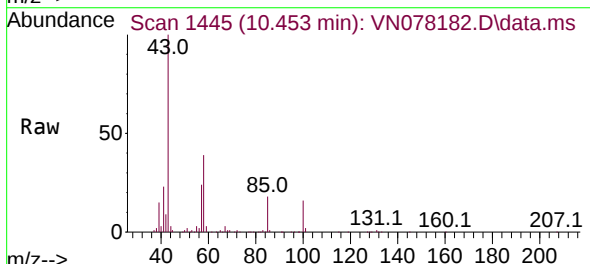
Manual Integrations  
APPROVED

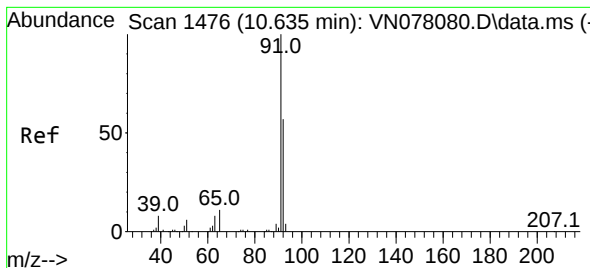
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023



#51  
4-Methyl-2-Pentanone  
Concen: 26.385 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

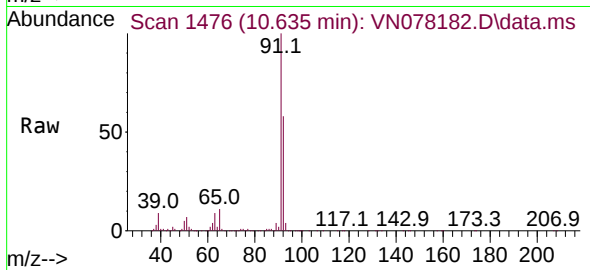
Tgt Ion: 43 Resp: 186259  
Ion Ratio Lower Upper  
43 100  
58 41.9 36.6 54.8





#52  
Toluene  
Concen: 418.917 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

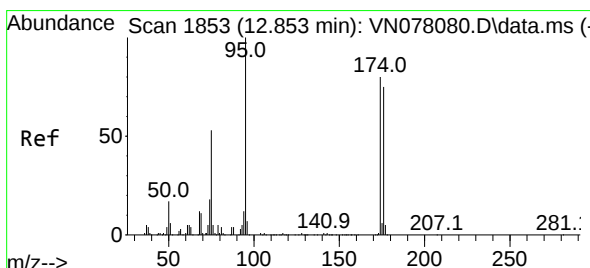
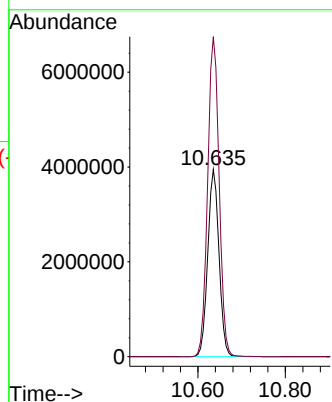
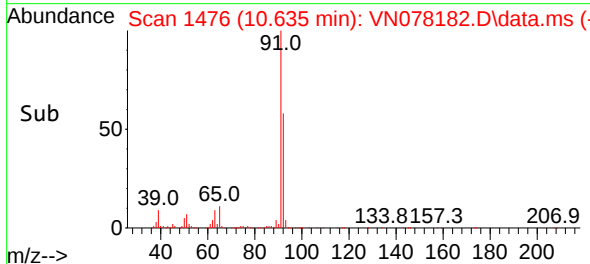
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578



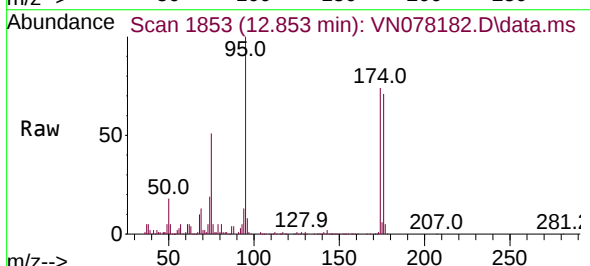
Tgt Ion: 92 Resp: 708517  
Ion Ratio Lower Upper  
92 100  
91 174.3 137.4 206.0

Manual Integrations  
APPROVED

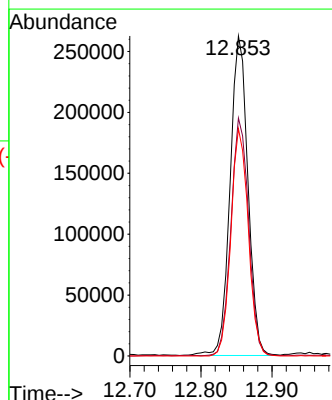
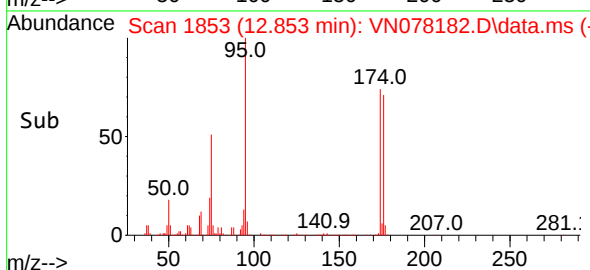
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023

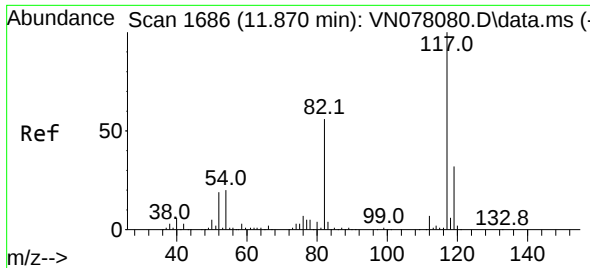


#62  
4-Bromofluorobenzene  
Concen: 61.119 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36



Tgt Ion: 95 Resp: 458213  
Ion Ratio Lower Upper  
95 100  
174 73.9 0.0 143.8  
176 69.2 0.0 135.8





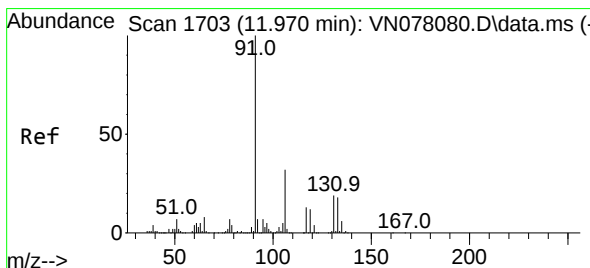
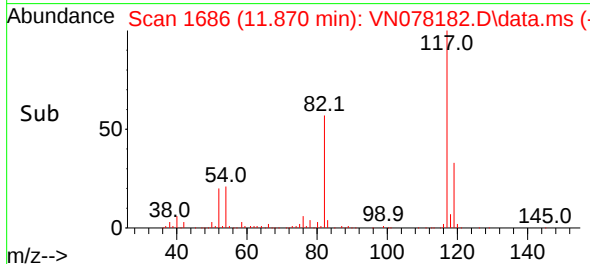
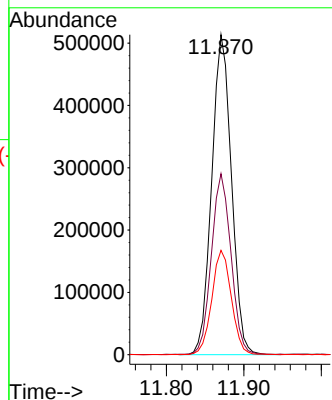
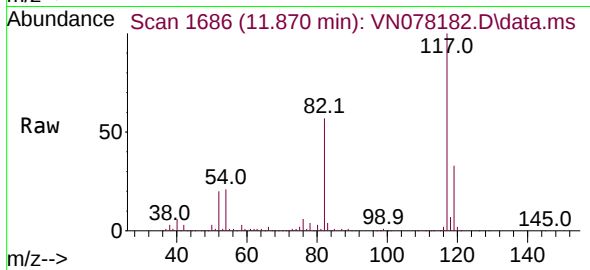
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578

Tgt Ion:117 Resp: 909624  
Ion Ratio Lower Upper  
117 100  
82 56.4 44.0 66.0  
119 32.6 25.6 38.4

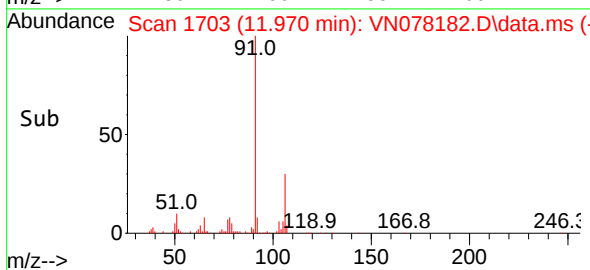
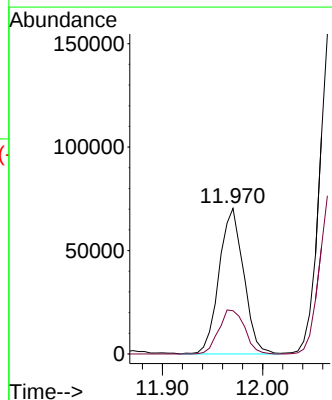
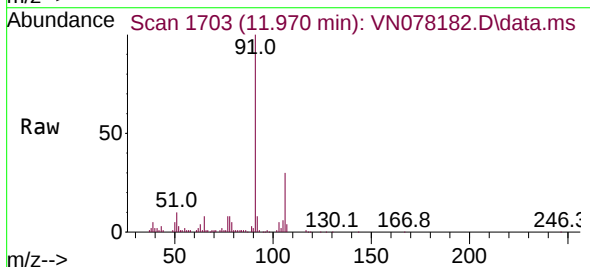
Manual Integrations  
APPROVED

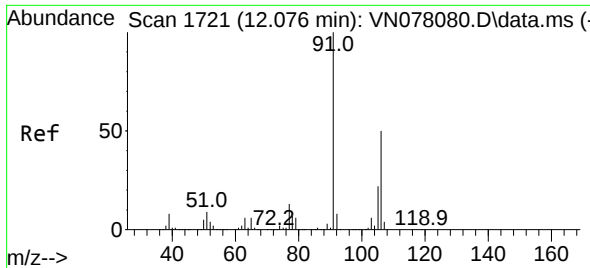
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023



#67  
Ethyl Benzene  
Concen: 3.568 ug/l  
RT: 11.970 min Scan# 1703  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Tgt Ion: 91 Resp: 119942  
Ion Ratio Lower Upper  
91 100  
106 29.7 25.6 38.4





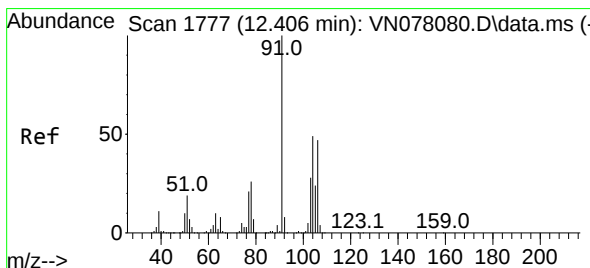
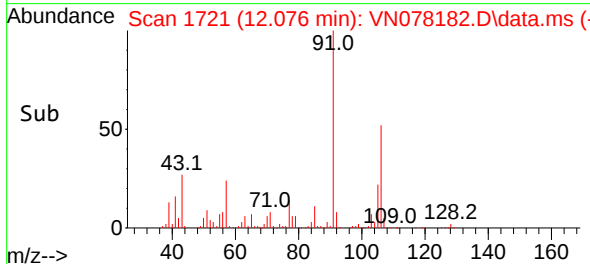
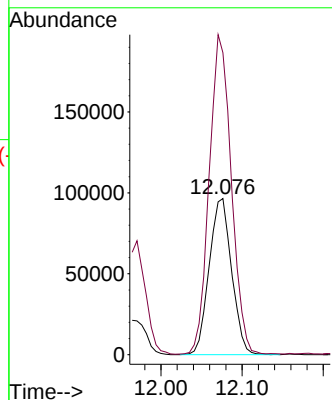
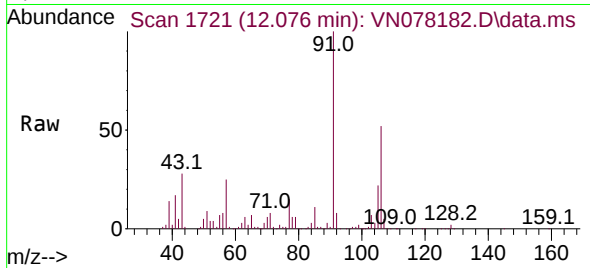
#68  
m/p-Xylenes  
Concen: 14.453 ug/l  
RT: 12.076 min Scan# 1721  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578

Tgt Ion:106 Resp: 185139  
Ion Ratio Lower Upper  
106 100  
91 202.0 159.6 239.4

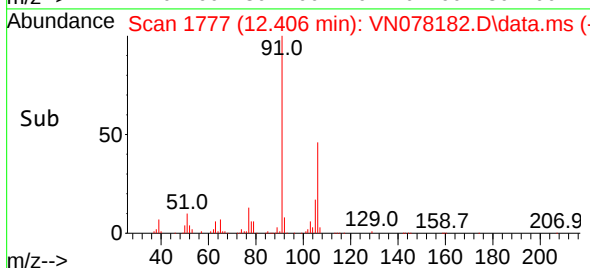
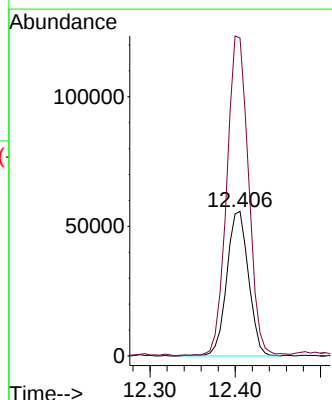
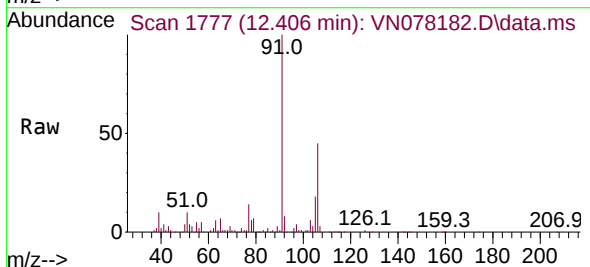
Manual Integrations  
APPROVED

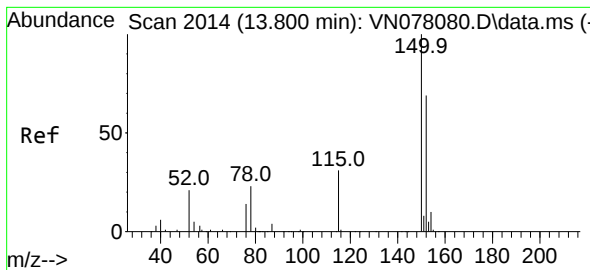
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023



#69  
o-Xylene  
Concen: 7.869 ug/l  
RT: 12.406 min Scan# 1777  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

Tgt Ion:106 Resp: 98993  
Ion Ratio Lower Upper  
106 100  
91 222.6 105.2 315.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078182.D

Acq: 13 Jun 2023 13:36

Instrument :

MSVOA\_N

ClientSampleId :

BUR-1578

Tgt Ion:152 Resp: 44389

Ion Ratio Lower Upper

152 100

115 66.7 32.3 96.8

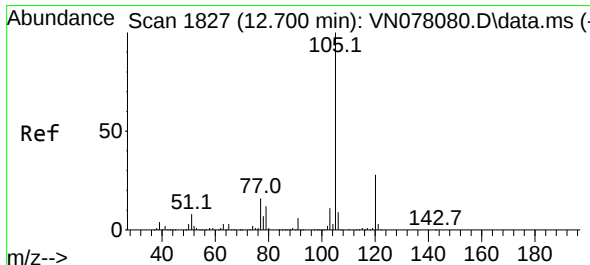
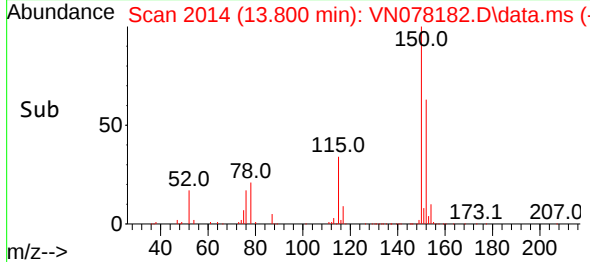
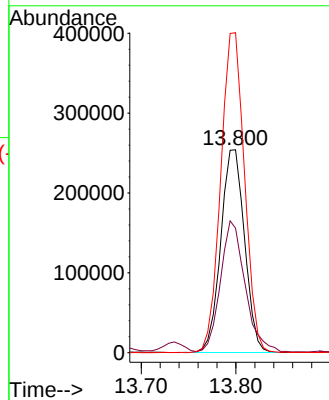
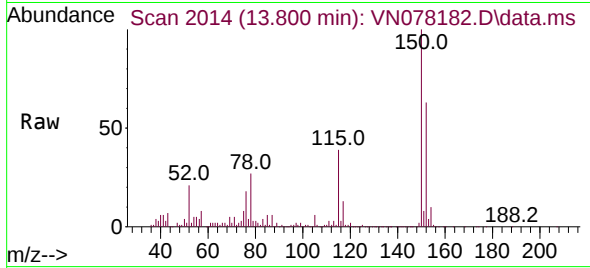
150 157.7 0.0 355.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/14/2023

Supervised By :Mahesh Dadoda 06/14/2023



#73

Isopropylbenzene

Concen: 1.062 ug/l

RT: 12.700 min Scan# 1827

Delta R.T. -0.000 min

Lab File: VN078182.D

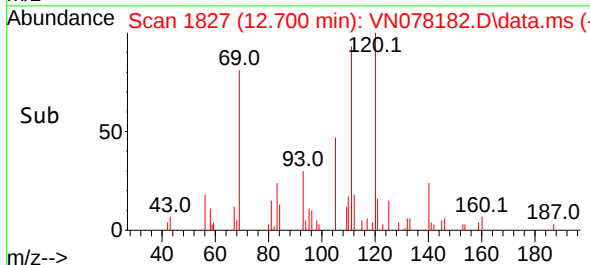
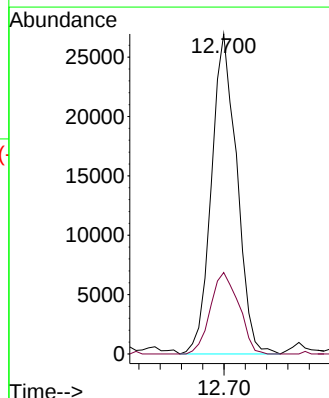
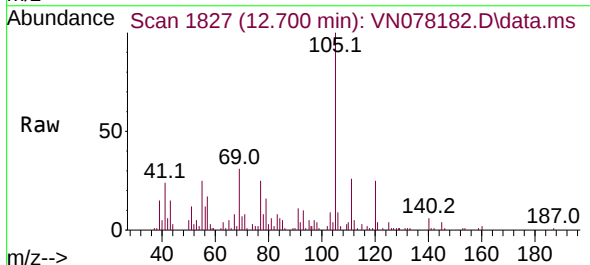
Acq: 13 Jun 2023 13:36

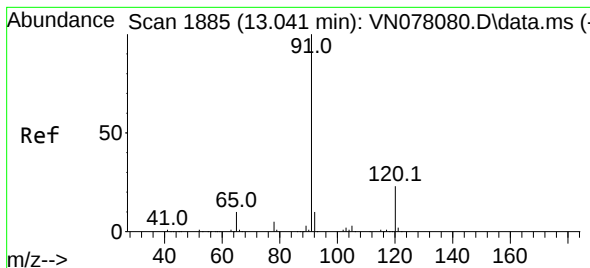
Tgt Ion:105 Resp: 44567

Ion Ratio Lower Upper

105 100

120 28.5 13.1 39.1





#78

n-propylbenzene

Concen: 4.638 ug/l

RT: 13.041 min Scan# 1885

Delta R.T. -0.000 min

Lab File: VN078182.D

Acq: 13 Jun 2023 13:36

Instrument :

MSVOA\_N

ClientSampleId :

BUR-1578

Tgt Ion: 91 Resp: 21150

Ion Ratio Lower Upper

91 100

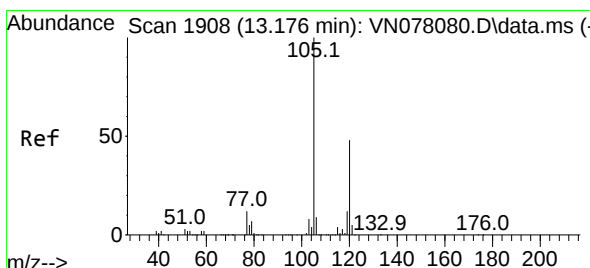
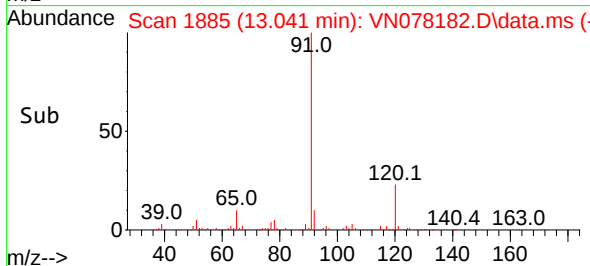
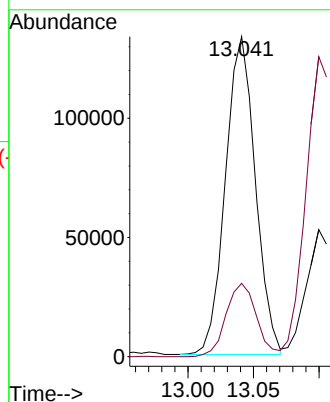
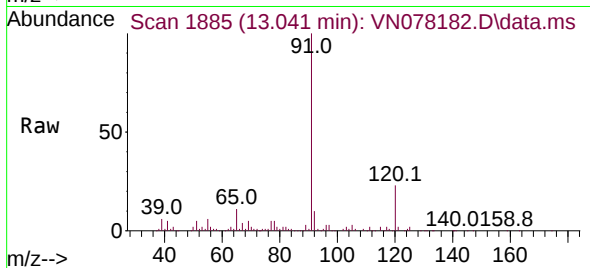
120 23.6 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/14/2023

Supervised By :Mahesh Dadoda 06/14/2023



#80

1,3,5-Trimethylbenzene

Concen: 9.586 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VN078182.D

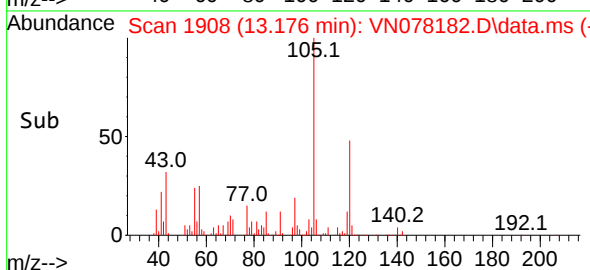
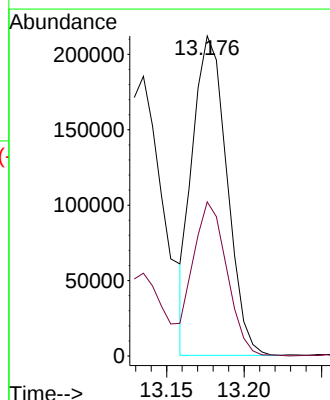
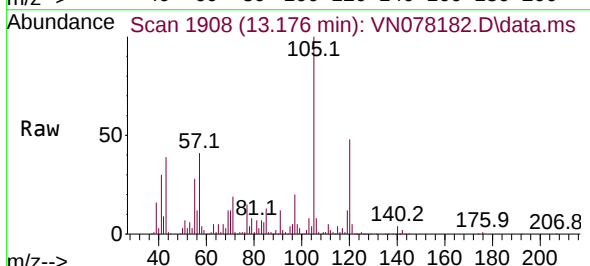
Acq: 13 Jun 2023 13:36

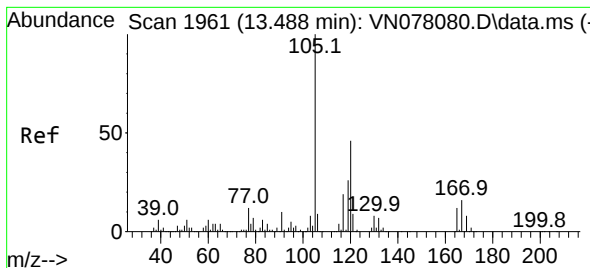
Tgt Ion:105 Resp: 325764

Ion Ratio Lower Upper

105 100

120 49.6 24.1 72.3





#84

1,2,4-Trimethylbenzene

Concen: 41.432 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. -0.000 min

Lab File: VN078182.D

Acq: 13 Jun 2023 13:36

Instrument :

MSVOA\_N

ClientSampleId :

BUR-1578

Tgt Ion:105 Resp: 136515

Ion Ratio Lower Upper

105 100

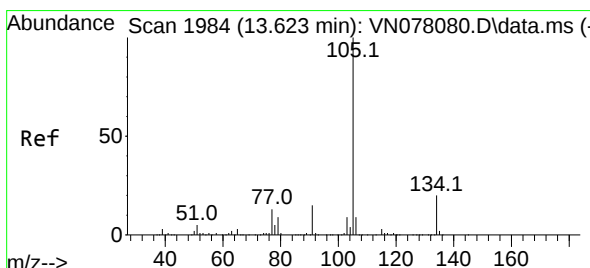
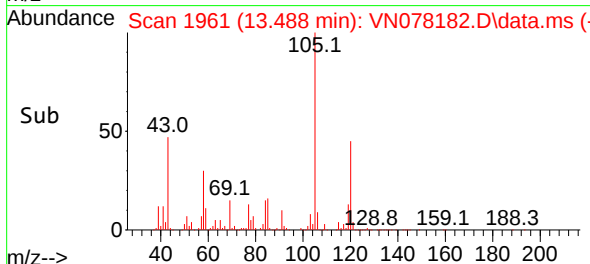
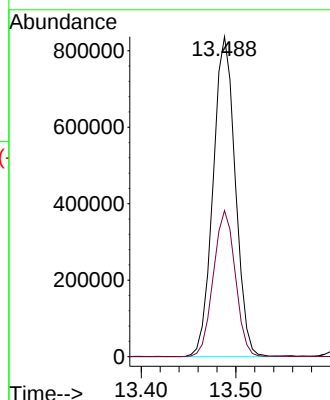
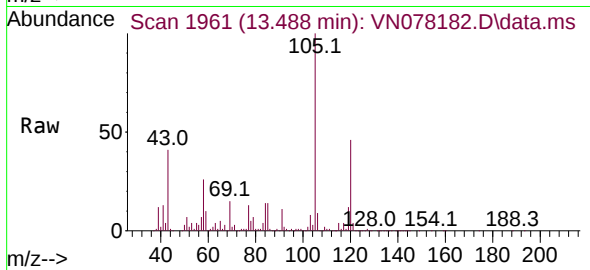
120 45.3 22.0 66.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/14/2023

Supervised By :Mahesh Dadoda 06/14/2023



#85

sec-Butylbenzene

Concen: 3.447 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.006 min

Lab File: VN078182.D

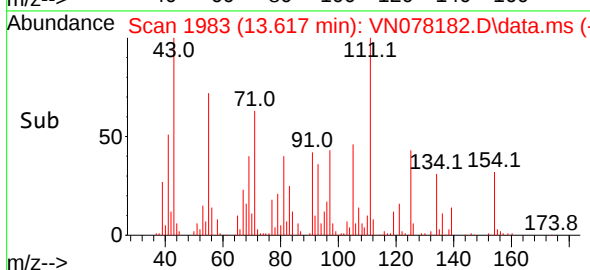
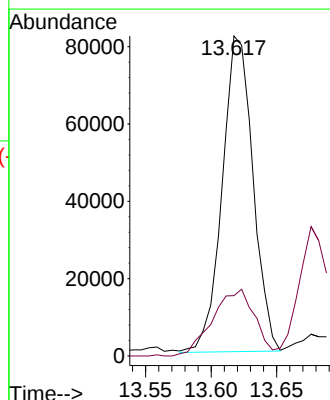
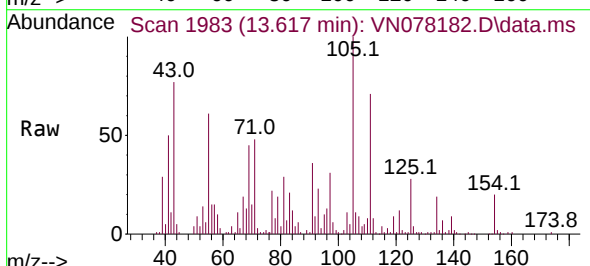
Acq: 13 Jun 2023 13:36

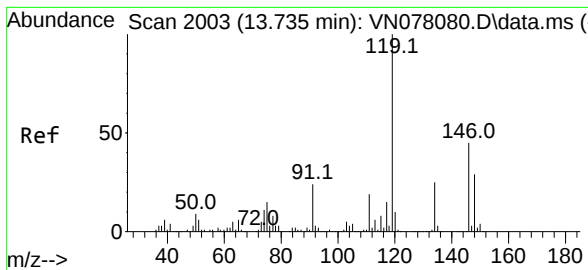
Tgt Ion:105 Resp: 133282

Ion Ratio Lower Upper

105 100

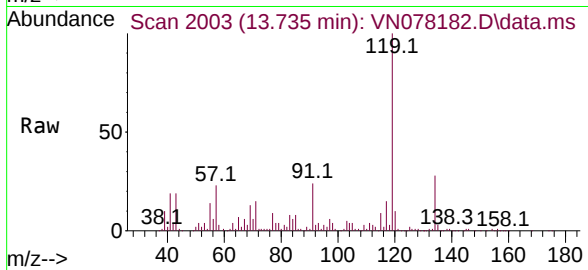
134 28.8 9.8 29.3





#86  
p-Isopropyltoluene  
Concen: 7.453 ug/l  
RT: 13.735 min Scan# 2003  
Delta R.T. -0.000 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36

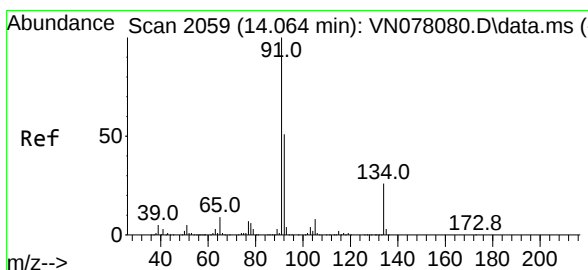
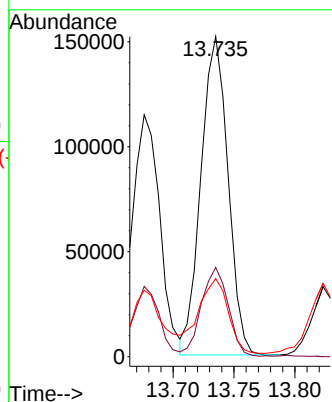
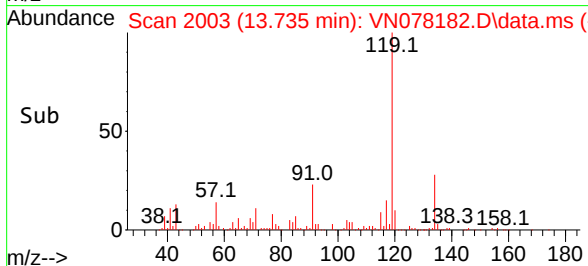
Instrument :  
MSVOA\_N  
ClientSampleId :  
BUR-1578



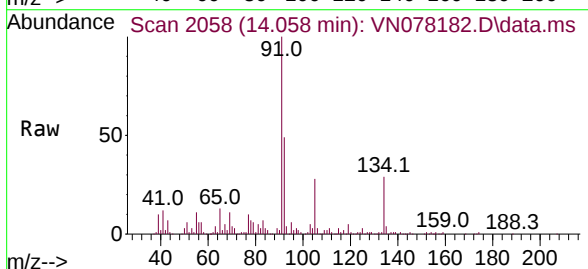
Tgt Ion:119 Resp: 23384  
Ion Ratio Lower Upper  
119 100  
134 27.7 12.6 37.8  
91 25.8 12.4 37.2

Manual Integrations  
APPROVED

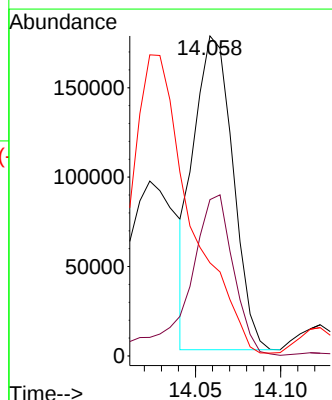
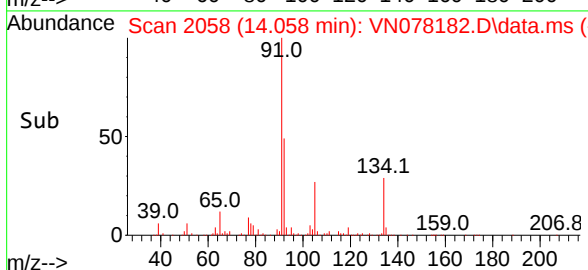
Reviewed By :John Carlone 06/14/2023  
Supervised By :Mahesh Dadoda 06/14/2023

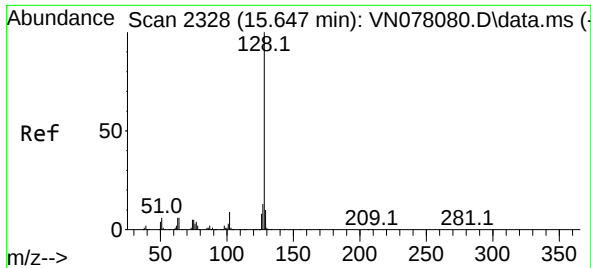


#89  
n-Butylbenzene  
Concen: 11.315 ug/l  
RT: 14.058 min Scan# 2058  
Delta R.T. -0.006 min  
Lab File: VN078182.D  
Acq: 13 Jun 2023 13:36



Tgt Ion: 91 Resp: 280034  
Ion Ratio Lower Upper  
91 100  
92 57.3 26.4 79.0  
134 0.0 12.6 37.6#





#95

Naphthalene

Concen: 24.424 ug/l

RT: 15.647 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078182.D

Acq: 13 Jun 2023 13:36

Instrument :

MSVOA\_N

ClientSampleId :

BUR-1578

Tgt Ion:128 Resp: 47154

Ion Ratio Lower Upper

128 100

127 14.1 10.0 15.0

129 9.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/14/2023

Supervised By :Mahesh Dadoda 06/14/2023

