

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061622\  
 Data File : VN072893.D  
 Acq On : 16 Jun 2022 21:14  
 Operator : JC\MD  
 Sample : N3202-07  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/20/2022  
 Supervised By : Mahesh Dadoda 06/30/2022

Quant Time: Jun 17 06:07:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 17 06:04:26 2022  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 8.016          | 168  | 634122     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.898          | 114  | 1065803    | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.680         | 117  | 932738     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.610         | 152  | 409608     | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.369          | 65   | 491004     | 41.910  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 83.820% |        |          |
| 35) Dibromofluoromethane    | 7.951          | 113  | 427294     | 44.136  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 88.280% |        |          |
| 50) Toluene-d8              | 10.375         | 98   | 1408307    | 37.163  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 74.320% |        |          |
| 62) 4-Bromofluorobenzene    | 12.669         | 95   | 565853     | 43.045  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 86.080% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol      | 5.298          | 59   | 134050     | 43.945  | ug/l   | 99       |
| 16) Acetone                 | 4.240          | 43   | 23127m     | 3.911   | ug/l   |          |
| 25) 2-Butanone              | 7.269          | 43   | 27830      | 2.955   | ug/l # | 87       |
| 31) Cyclohexane             | 8.022          | 56   | 134788     | 8.581   | ug/l # | 80       |
| 39) Methylcyclohexane       | 9.392          | 83   | 315363     | 19.217  | ug/l   | 94       |
| 40) Benzene                 | 8.392          | 78   | 17327      | 0.411   | ug/l   | 94       |
| 52) Toluene                 | 10.433         | 92   | 9712       | 0.356   | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.780         | 91   | 579134     | 13.334  | ug/l   | 99       |
| 68) m/p-Xylenes             | 11.892         | 106  | 106725     | 6.399   | ug/l   | 99       |
| 69) o-Xylene                | 12.216         | 106  | 28848      | 1.686   | ug/l   | 99       |
| 73) Isopropylbenzene        | 12.516         | 105  | 1266290    | 32.417  | ug/l   | 100      |
| 78) n-propylbenzene         | 12.857         | 91   | 1600439    | 39.285  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.992         | 105  | 2155058    | 68.843  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.304         | 105  | 5248652    | 174.401 | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.433         | 105  | 114645m    | 3.156   | ug/l   |          |
| 86) p-Isopropyltoluene      | 13.551         | 119  | 53844m     | 1.837   | ug/l   |          |
| 89) n-Butylbenzene          | 13.874         | 91   | 86504m     | 3.839   | ug/l   |          |
| -----                       |                |      |            |         |        |          |

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

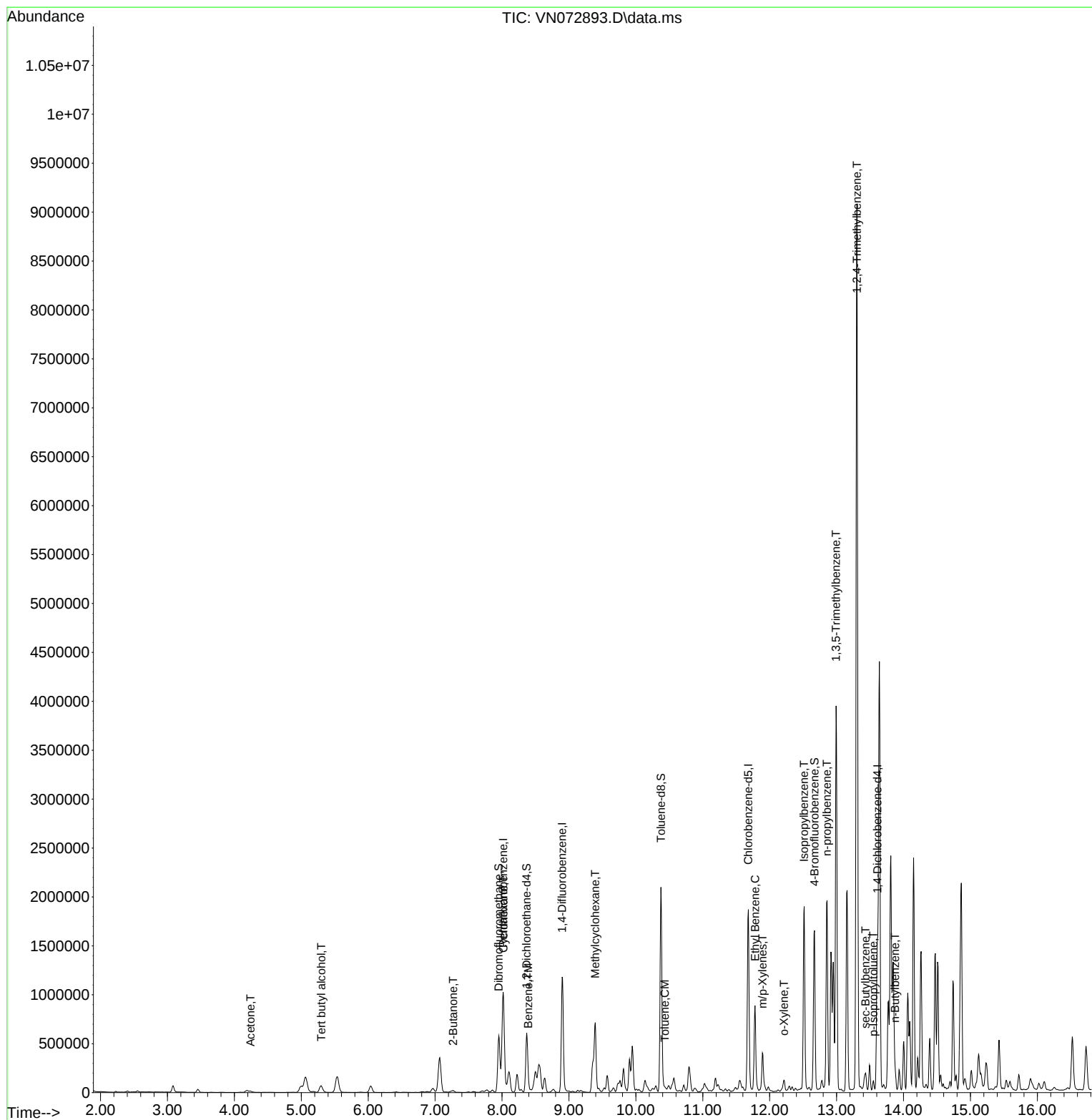
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061622\  
Data File : VN072893.D  
Acq On : 16 Jun 2022 21:14  
Operator : JC\MD  
Sample : N3202-07  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

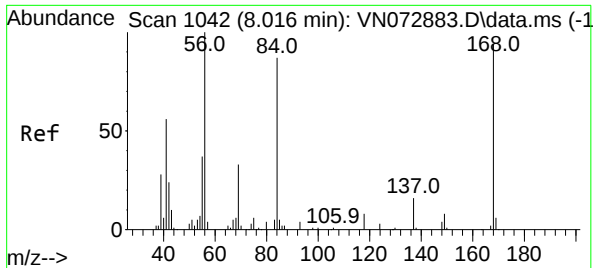
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11

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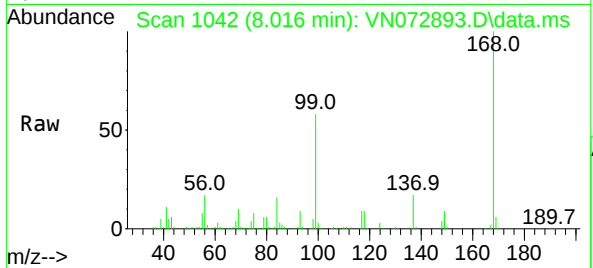
Quant Time: Jun 17 06:07:15 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061622W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 17 06:04:26 2022  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

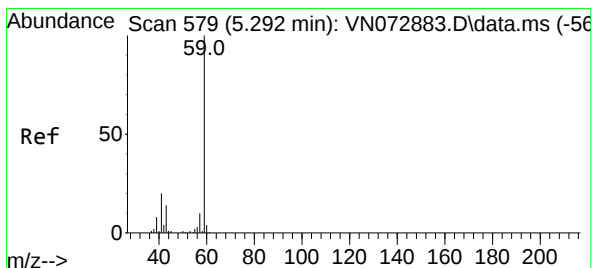
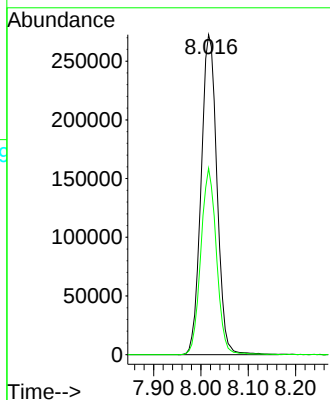
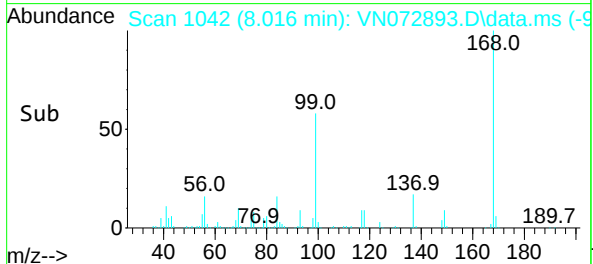
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



Tgt Ion:168 Resp: 63412  
Ion Ratio Lower Upper  
168 100  
99 58.3 42.3 63.5

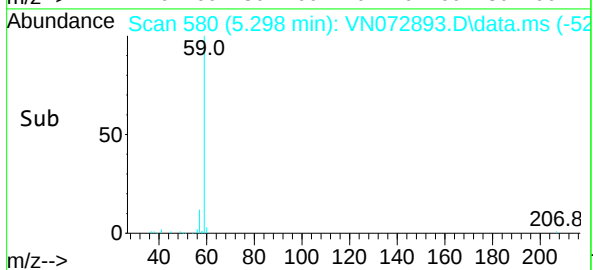
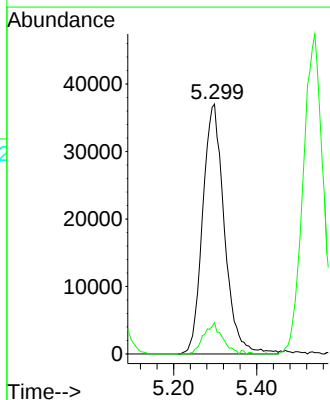
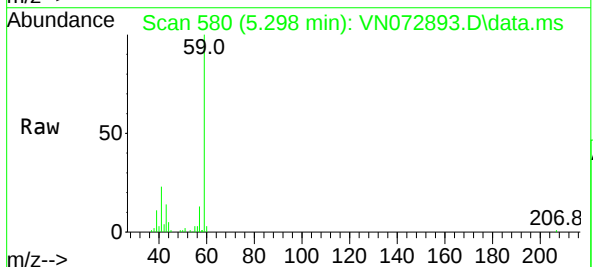
Manual Integrations  
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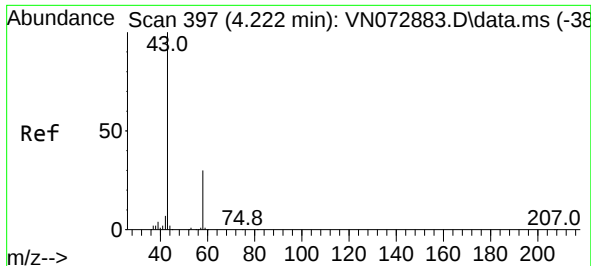
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#11  
Tert butyl alcohol  
Concen: 43.945 ug/l  
RT: 5.298 min Scan# 580  
Delta R.T. 0.006 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

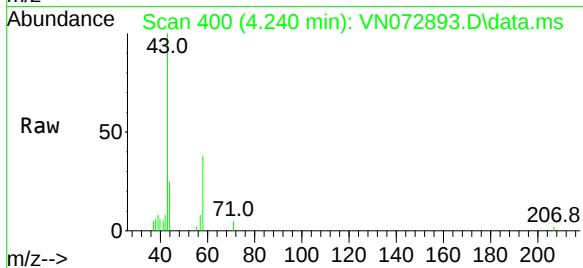
Tgt Ion: 59 Resp: 134050  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.3 12.5





#16  
Acetone  
Concen: 3.911 ug/l m  
RT: 4.240 min Scan# 40  
Delta R.T. 0.018 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

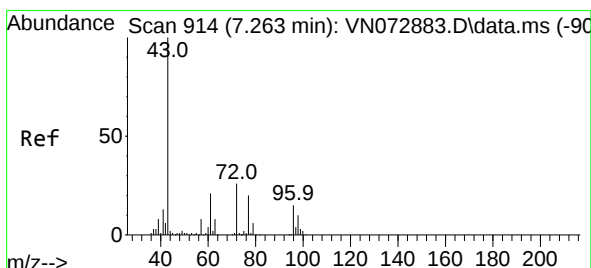
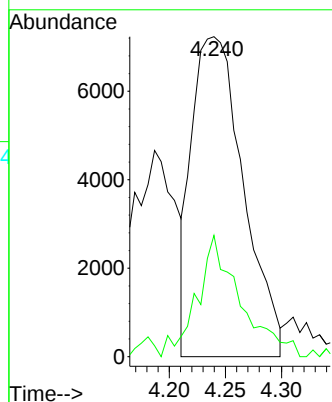
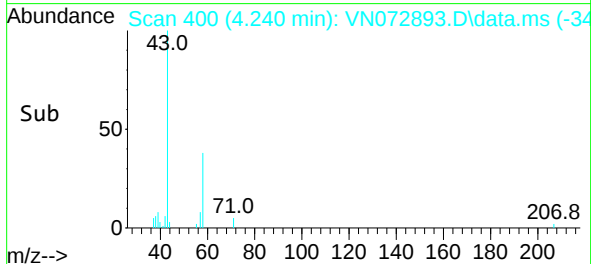
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



Tgt Ion: 43 Resp: 2312  
Ion Ratio Lower Upper  
43 100  
58 37.9 26.0 39.0

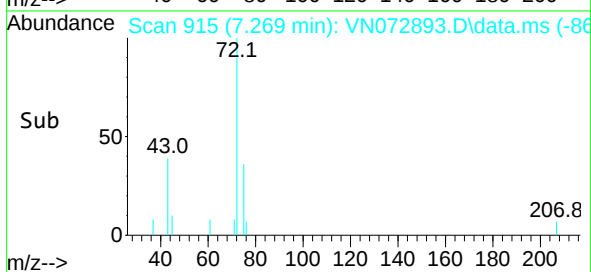
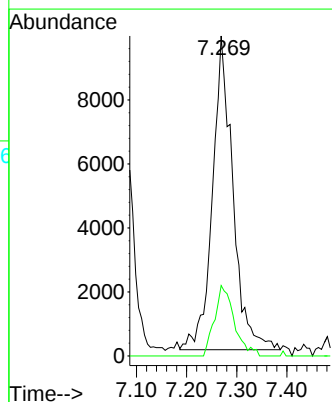
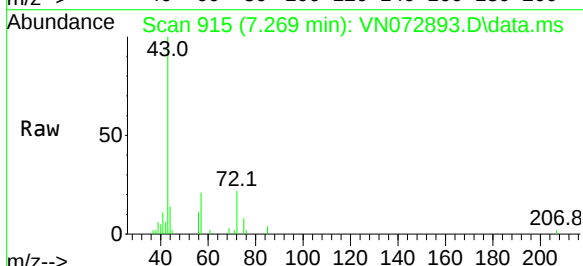
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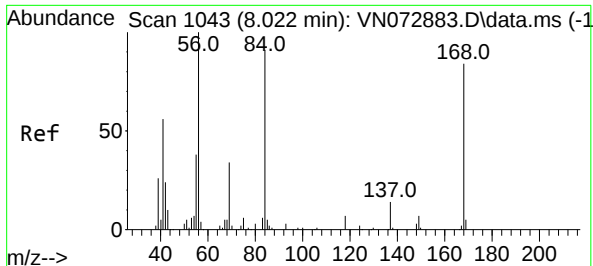
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#25  
2-Butanone  
Concen: 2.955 ug/l  
RT: 7.269 min Scan# 915  
Delta R.T. 0.006 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

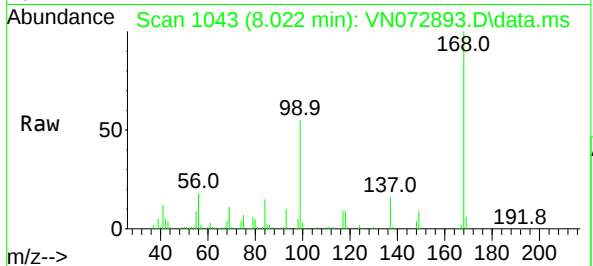
Tgt Ion: 43 Resp: 27830  
Ion Ratio Lower Upper  
43 100  
72 22.4 23.7 35.5#





#31  
Cyclohexane  
Concen: 8.581 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

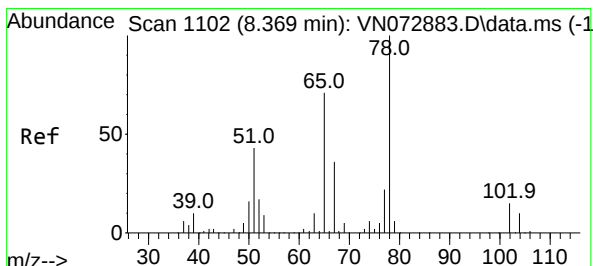
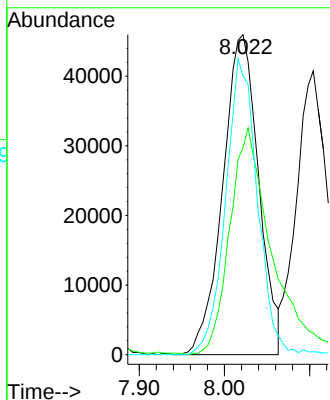
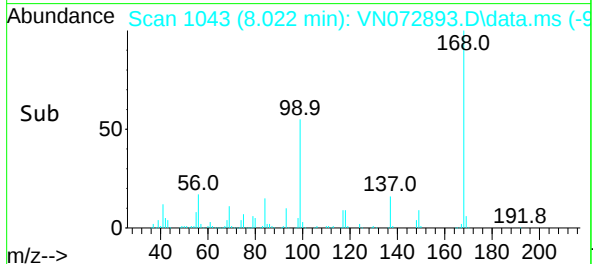
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



Tgt Ion: 56 Resp: 13478  
Ion Ratio Lower Upper  
56 100  
69 64.2 27.8 41.8  
84 87.0 76.9 115.3

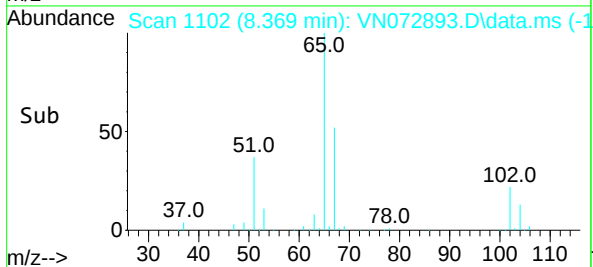
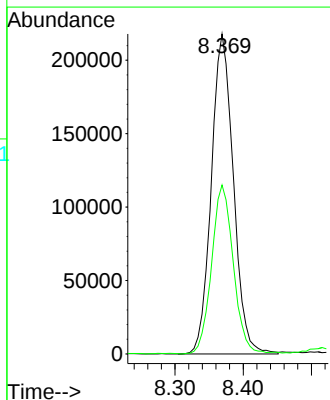
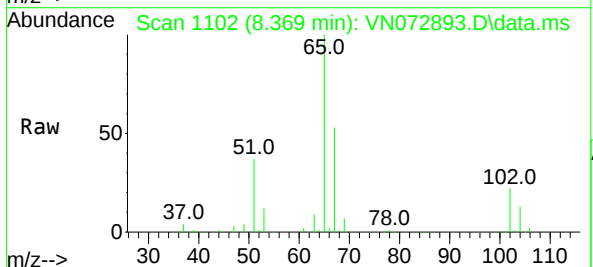
Manual Integrations  
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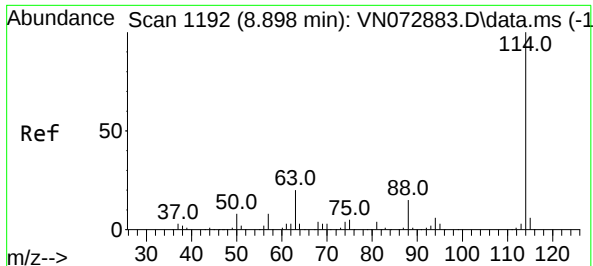
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#33  
1,2-Dichloroethane-d4  
Concen: 41.910 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

Tgt Ion: 65 Resp: 491004  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VN072893.D

Acq: 16 Jun 2022 21:14

Instrument :

MSVOA\_N

ClientSampleId :

MW-11

Tgt Ion:114 Resp: 106580

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

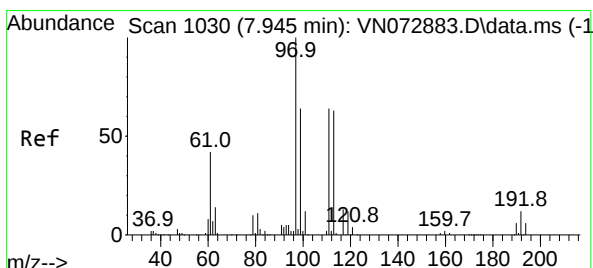
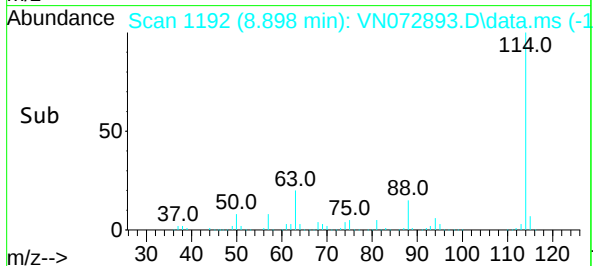
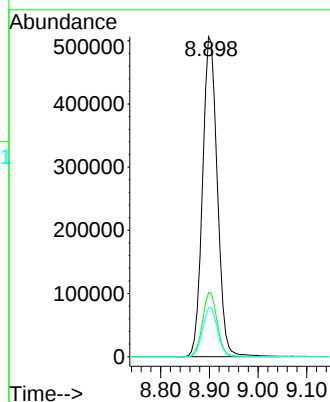
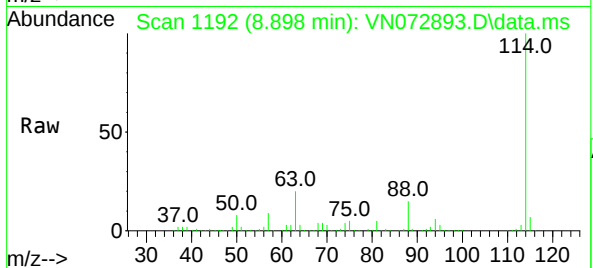
88 15.2 0.0 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/20/2022

Supervised By :Mahesh Dadoda 06/30/2022



#35

Dibromofluoromethane

Concen: 44.136 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VN072893.D

Acq: 16 Jun 2022 21:14

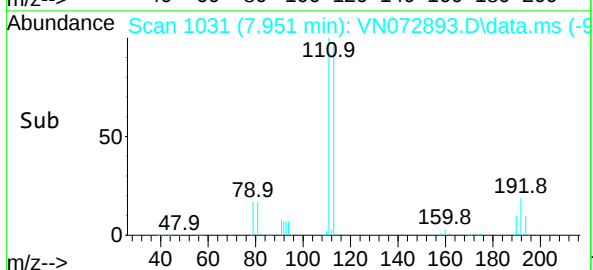
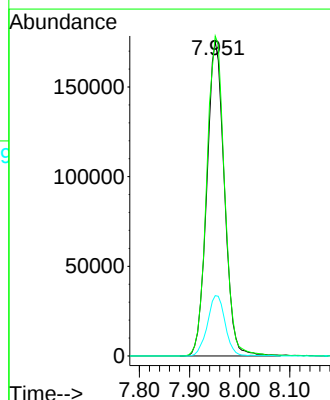
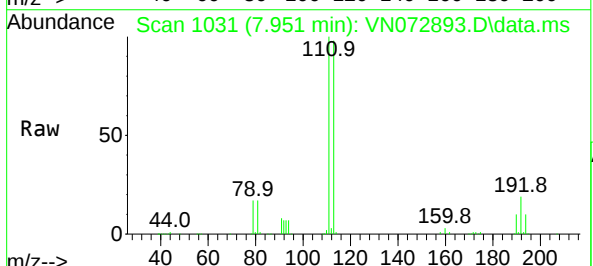
Tgt Ion:113 Resp: 427294

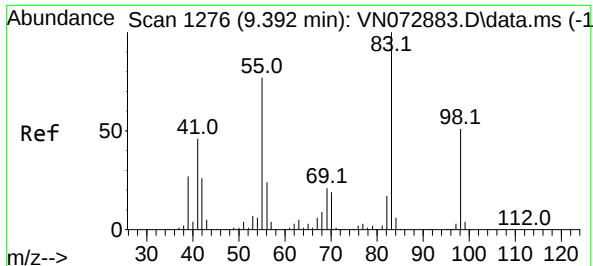
Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

192 19.3 17.0 25.6





#39

Methylcyclohexane

Concen: 19.217 ug/l

RT: 9.392 min Scan# 1106

Delta R.T. 0.000 min

Lab File: VN072893.D

Acq: 16 Jun 2022 21:14

Instrument :

MSVOA\_N

ClientSampleId :

MW-11

Tgt Ion: 83 Resp: 31536

Ion Ratio Lower Upper

83 100

55 80.2 57.8 86.8

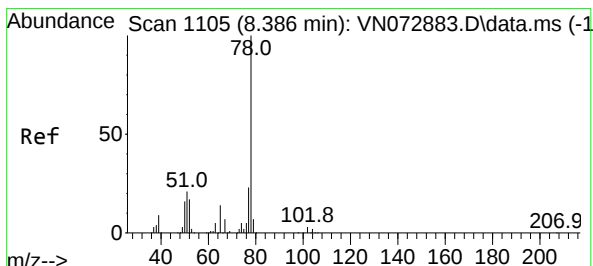
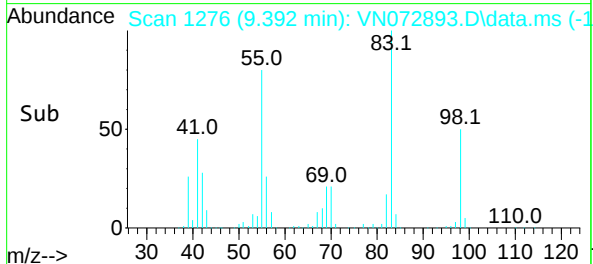
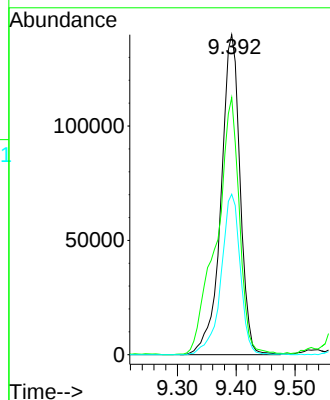
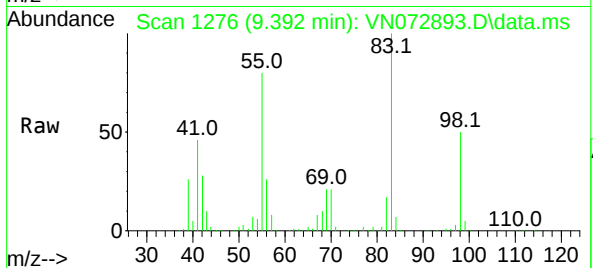
98 50.2 39.4 59.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/20/2022

Supervised By :Mahesh Dadoda 06/30/2022



#40

Benzene

Concen: 0.411 ug/l

RT: 8.392 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VN072893.D

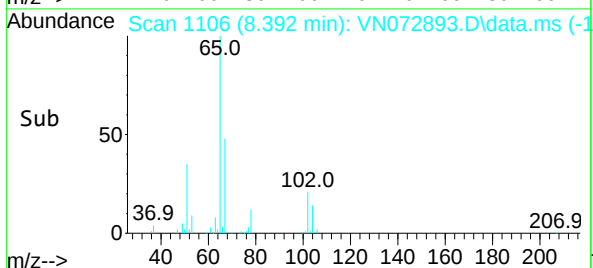
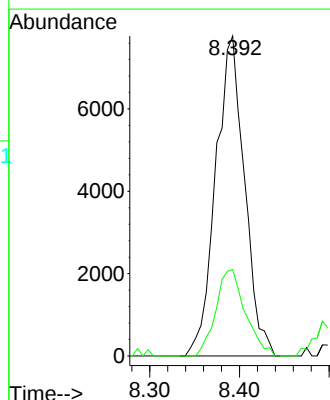
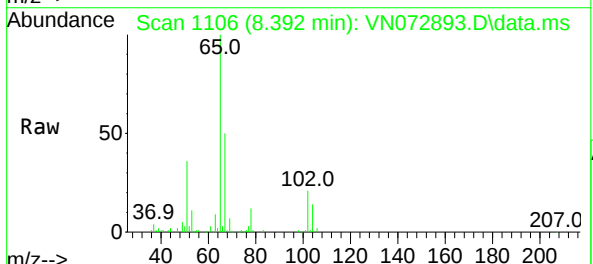
Acq: 16 Jun 2022 21:14

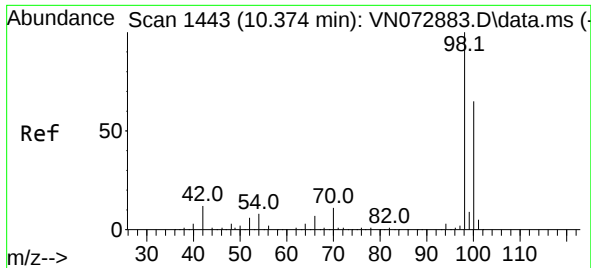
Tgt Ion: 78 Resp: 17327

Ion Ratio Lower Upper

78 100

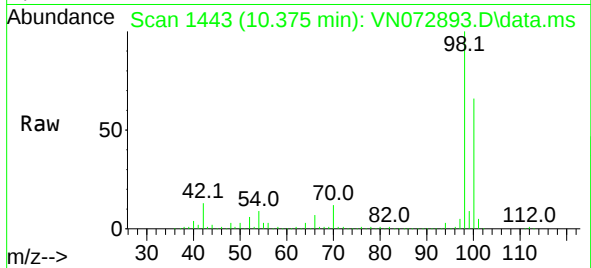
77 27.0 19.4 29.0





#50  
Toluene-d8  
Concen: 37.163 ug/l  
RT: 10.375 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

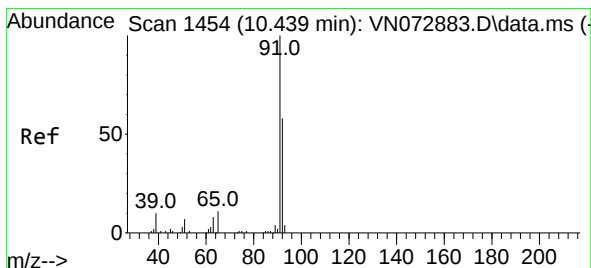
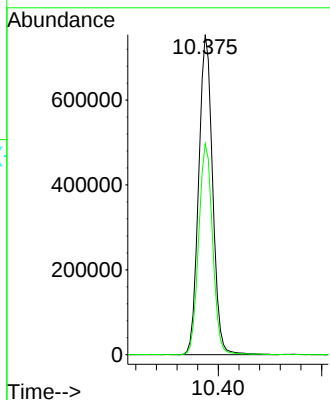
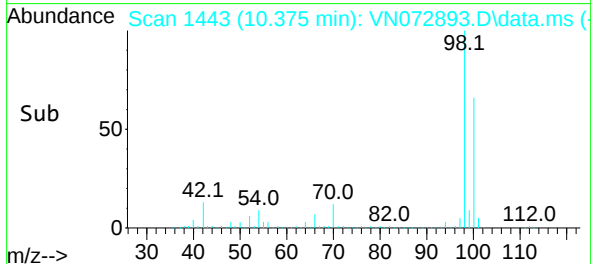
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



Tgt Ion: 98 Resp: 140830  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.6 78.8

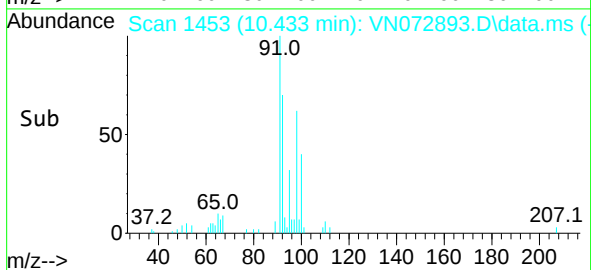
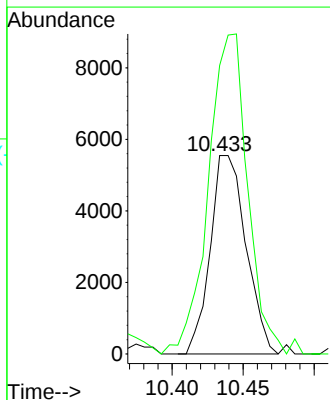
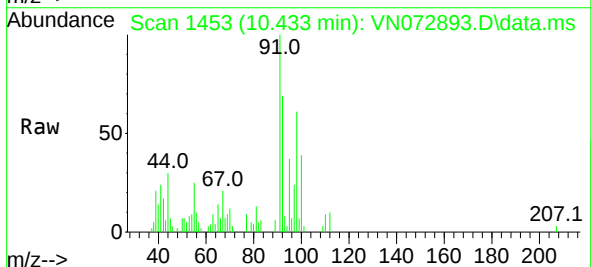
Manual Integrations  
APPROVED

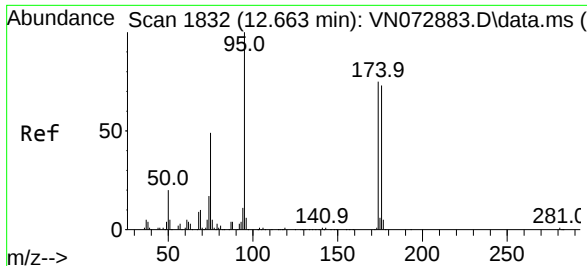
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#52  
Toluene  
Concen: 0.356 ug/l  
RT: 10.433 min Scan# 1453  
Delta R.T. -0.006 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

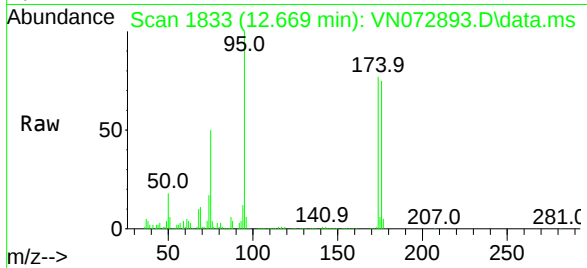
Tgt Ion: 92 Resp: 9712  
Ion Ratio Lower Upper  
92 100  
91 178.3 138.6 207.8





#62  
4-Bromofluorobenzene  
Concen: 43.045 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.006 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

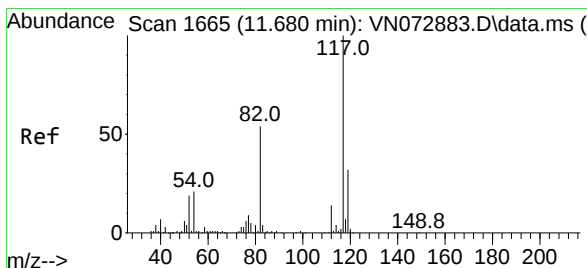
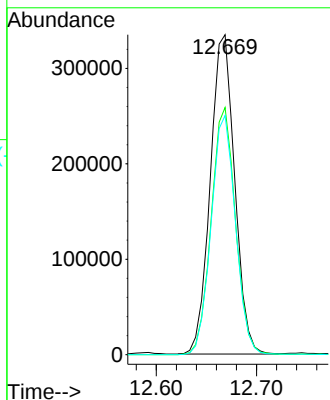
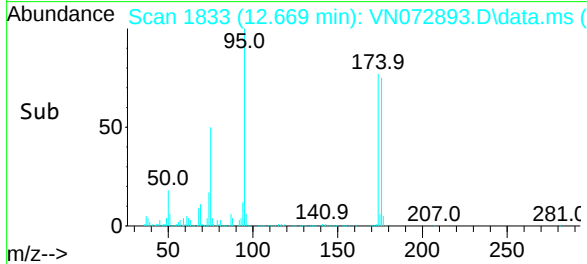
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



Tgt Ion: 95 Resp: 56585  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 167.6  
176 74.8 0.0 163.4

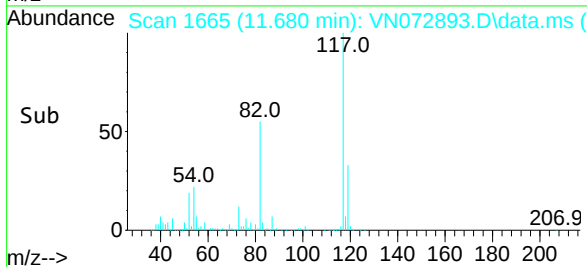
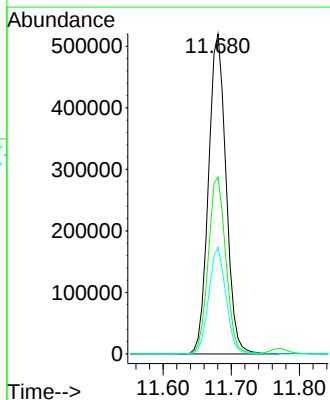
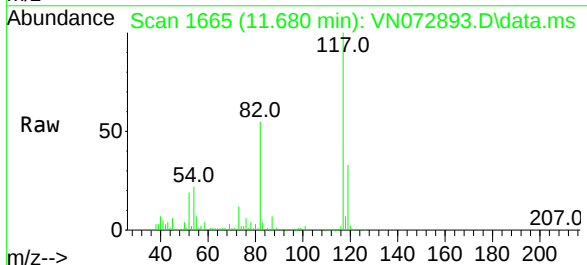
Manual Integrations  
APPROVED

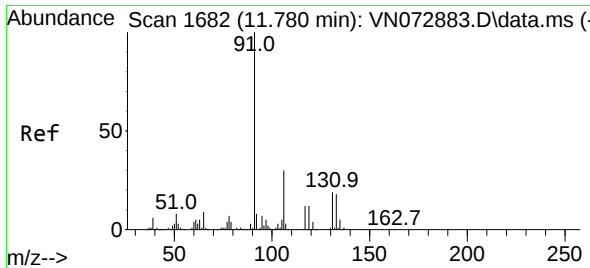
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.680 min Scan# 1665  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

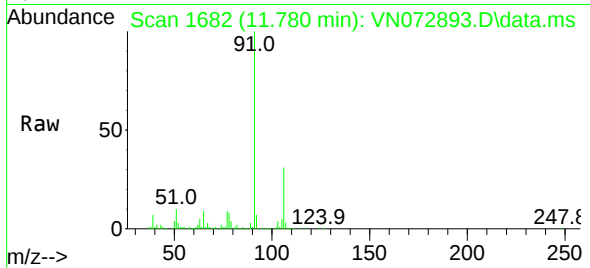
Tgt Ion:117 Resp: 932738  
Ion Ratio Lower Upper  
117 100  
82 55.2 44.2 66.2  
119 33.4 25.4 38.0





#67  
Ethyl Benzene  
Concen: 13.334 ug/l  
RT: 11.780 min Scan# 1100  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

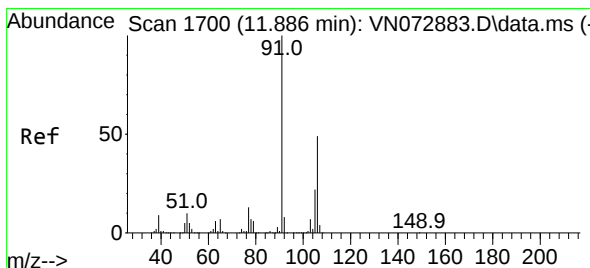
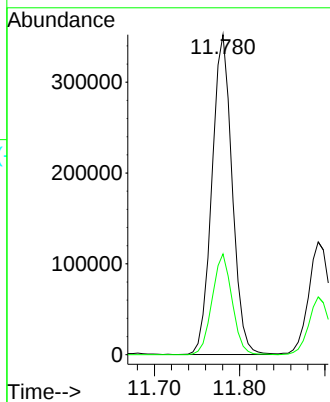
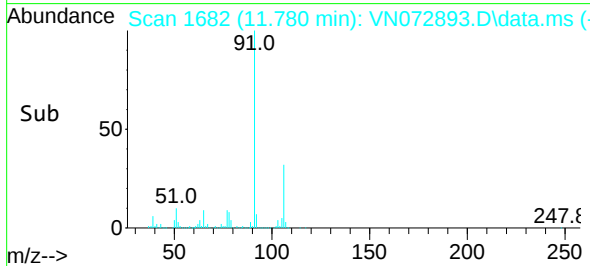
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



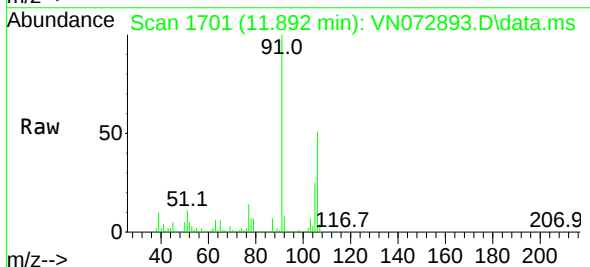
Tgt Ion: 91 Resp: 579134  
Ion Ratio Lower Upper  
91 100  
106 31.5 24.9 37.3

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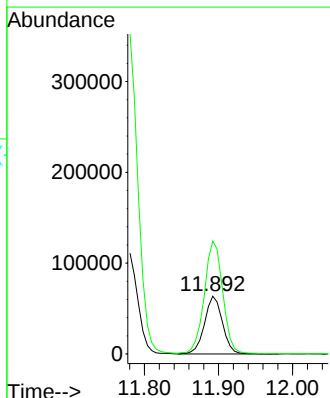
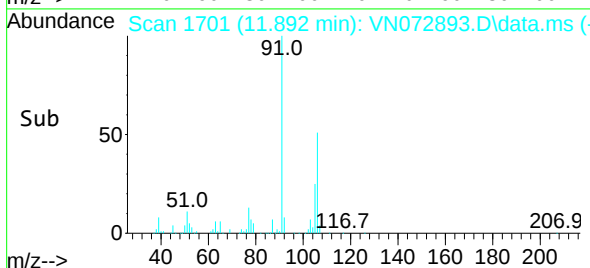
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

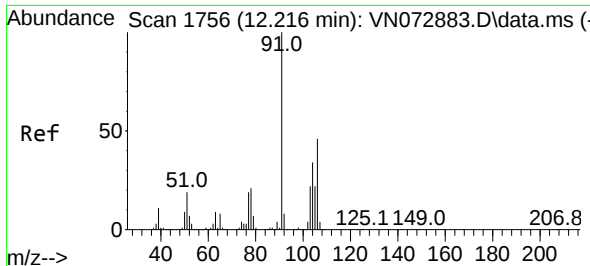


#68  
m/p-Xylenes  
Concen: 6.399 ug/l  
RT: 11.892 min Scan# 1701  
Delta R.T. 0.006 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14



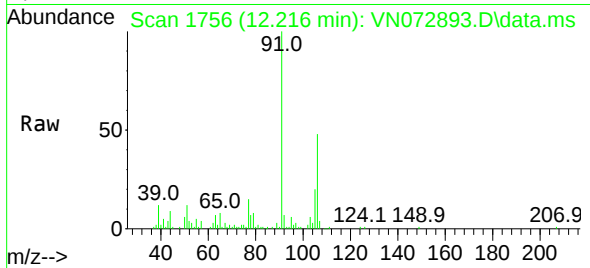
Tgt Ion:106 Resp: 106725  
Ion Ratio Lower Upper  
106 100  
91 199.8 158.9 238.3





#69  
o-Xylene  
Concen: 1.686 ug/l  
RT: 12.216 min Scan# 1756  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

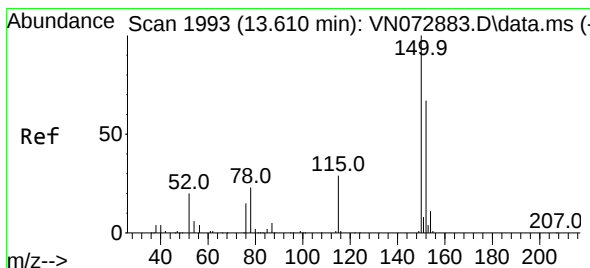
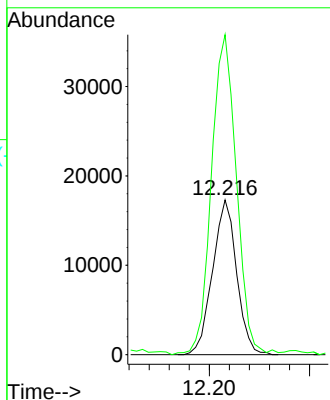
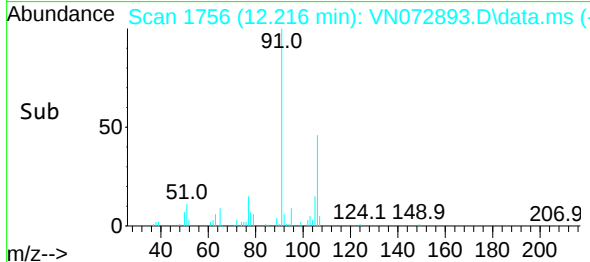
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



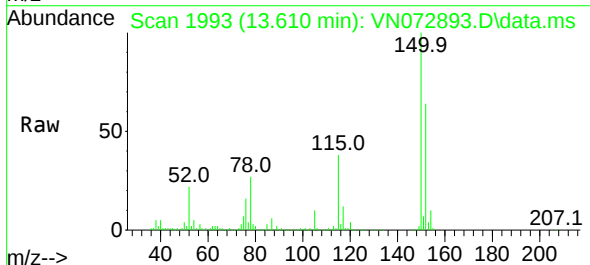
Tgt Ion:106 Resp: 2884  
Ion Ratio Lower Upper  
106 100  
91 214.2 106.0 318.0

Manual Integrations  
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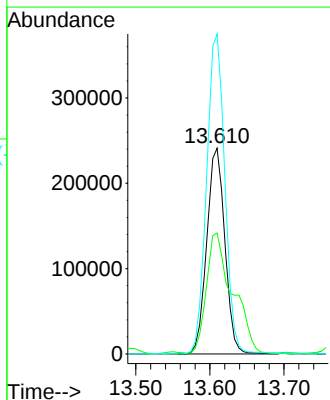
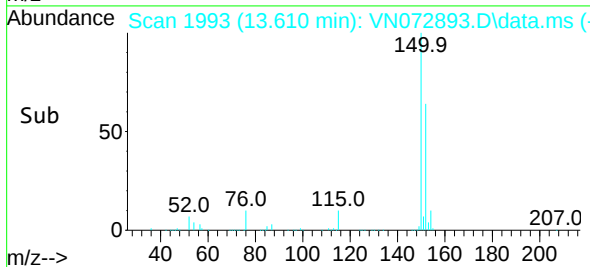
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

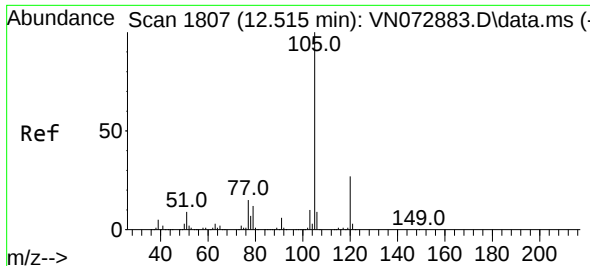


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.610 min Scan# 1993  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14



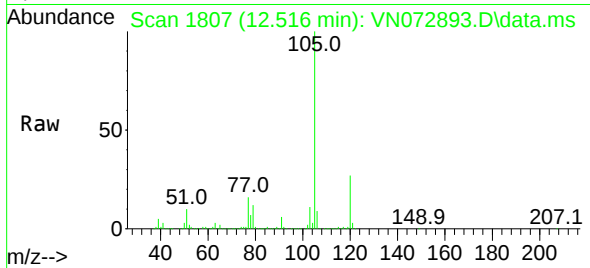
Tgt Ion:152 Resp: 409608  
Ion Ratio Lower Upper  
152 100  
115 83.8 28.9 86.7  
150 156.4 0.0 356.2





#73  
Isopropylbenzene  
Concen: 32.417 ug/l  
RT: 12.516 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

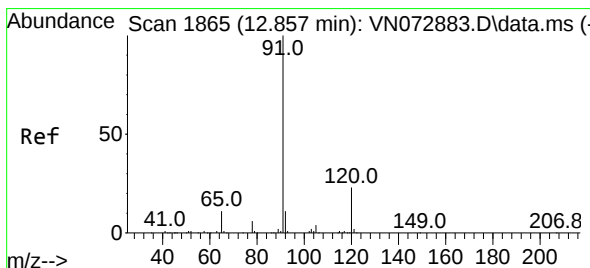
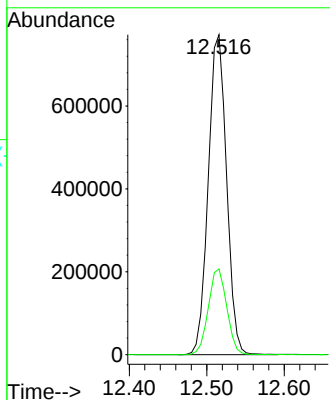
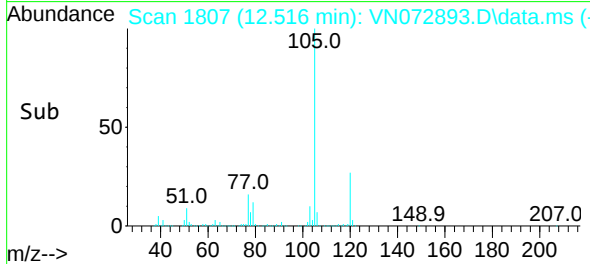
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



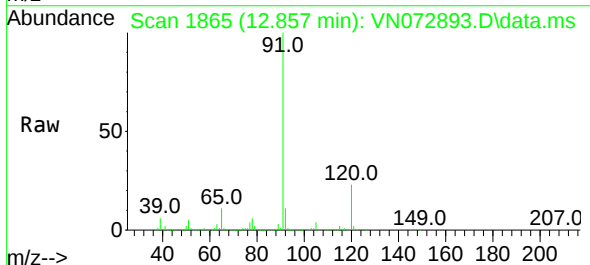
Tgt Ion:105 Resp: 1266290  
Ion Ratio Lower Upper  
105 100  
120 27.0 13.5 40.4

Manual Integrations  
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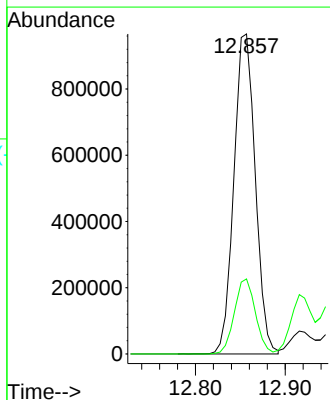
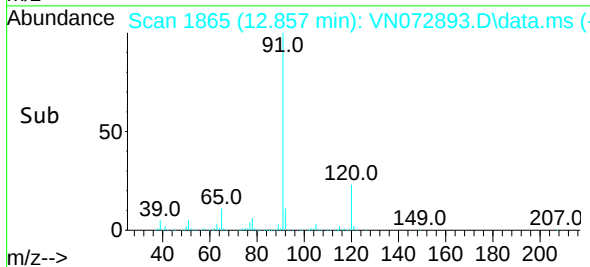
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

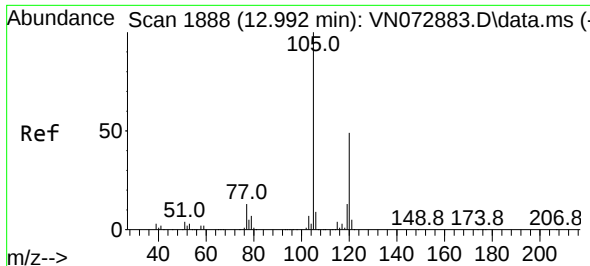


#78  
n-propylbenzene  
Concen: 39.285 ug/l  
RT: 12.857 min Scan# 1865  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14



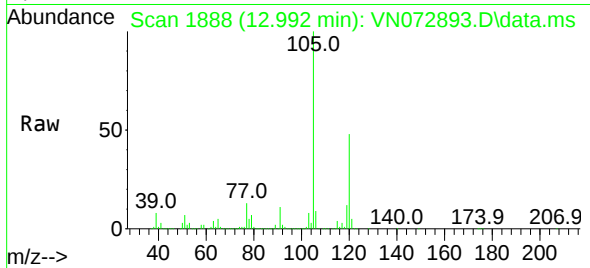
Tgt Ion: 91 Resp: 1600439  
Ion Ratio Lower Upper  
91 100  
120 23.0 11.9 35.5





#80  
1,3,5-Trimethylbenzene  
Concen: 68.843 ug/l  
RT: 12.992 min Scan# 1888  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14

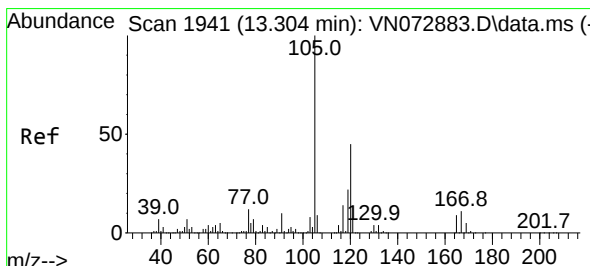
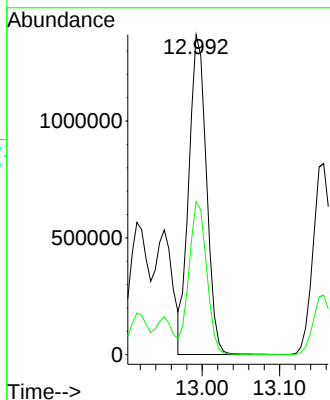
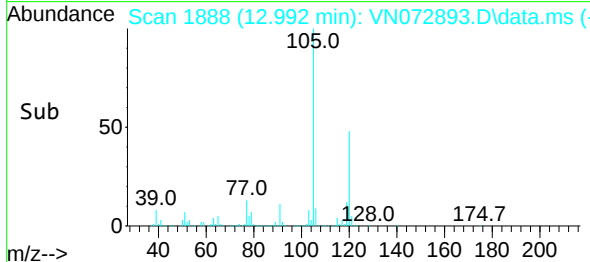
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-11



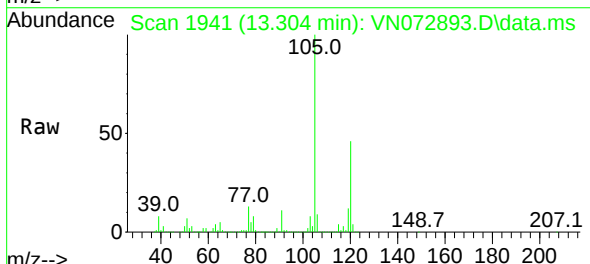
Tgt Ion:105 Resp: 2155058  
Ion Ratio Lower Upper  
105 100  
120 48.2 24.9 74.7

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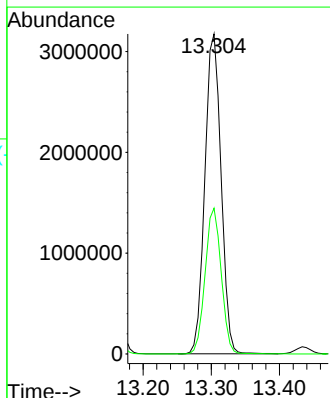
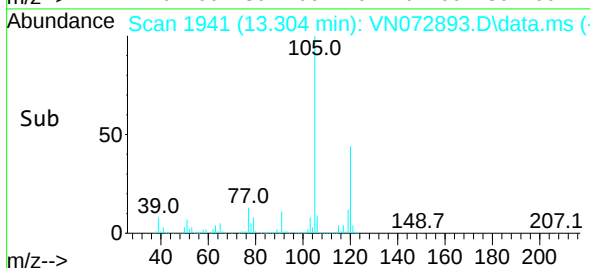
Reviewed By :John Carlone 06/20/2022  
Supervised By :Mahesh Dadoda 06/30/2022

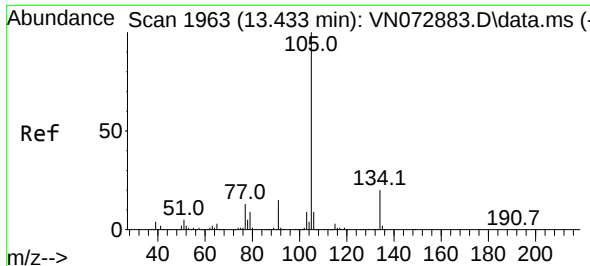


#84  
1,2,4-Trimethylbenzene  
Concen: 174.401 ug/l  
RT: 13.304 min Scan# 1941  
Delta R.T. 0.000 min  
Lab File: VN072893.D  
Acq: 16 Jun 2022 21:14



Tgt Ion:105 Resp: 5248652  
Ion Ratio Lower Upper  
105 100  
120 45.3 23.3 69.8





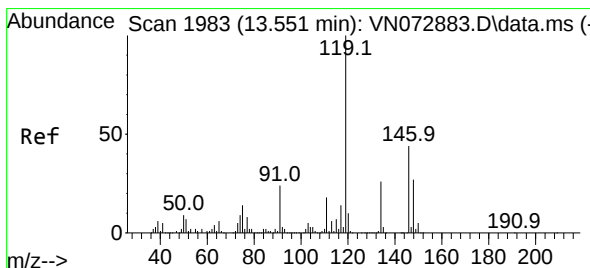
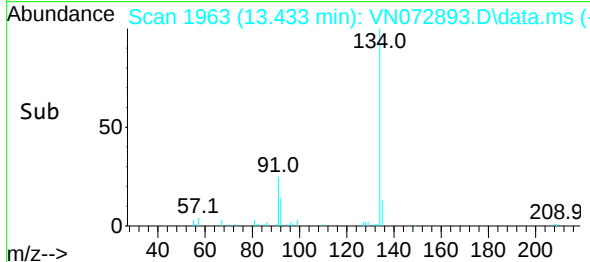
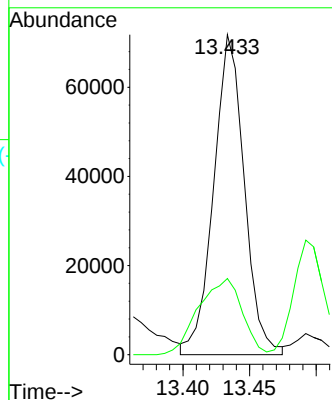
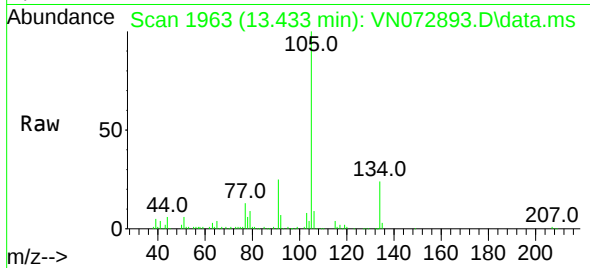
#85  
 sec-Butylbenzene  
 Concen: 3.156 ug/l m  
 RT: 13.433 min Scan# 1963  
 Delta R.T. 0.000 min  
 Lab File: VN072893.D  
 Acq: 16 Jun 2022 21:14

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-11

Tgt Ion:105 Resp: 11464  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.4 31.1

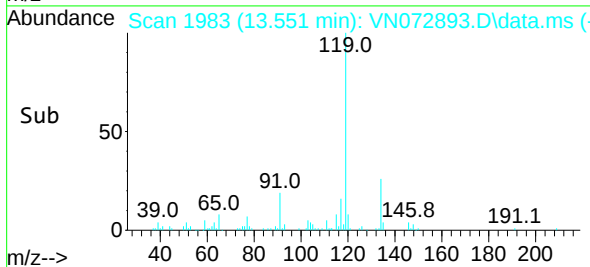
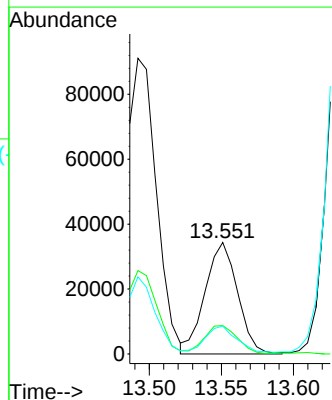
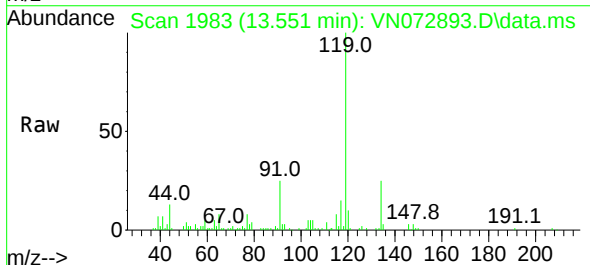
Manual Integrations  
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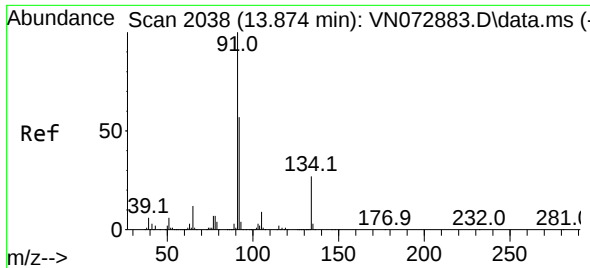
Reviewed By :John Carlone 06/20/2022  
 Supervised By :Mahesh Dadoda 06/30/2022



#86  
 p-Isopropyltoluene  
 Concen: 1.837 ug/l m  
 RT: 13.551 min Scan# 1983  
 Delta R.T. 0.000 min  
 Lab File: VN072893.D  
 Acq: 16 Jun 2022 21:14

Tgt Ion:119 Resp: 53844  
 Ion Ratio Lower Upper  
 119 100  
 134 74.2 13.3 39.8#  
 91 58.6 11.3 33.9#





#89

n-Butylbenzene

Concen: 3.839 ug/l m

RT: 13.874 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN072893.D

Acq: 16 Jun 2022 21:14

Instrument :

MSVOA\_N

ClientSampleId :

MW-11

Tgt Ion: 91 Resp: 86504

Ion Ratio Lower Upper

91 100

92 0.0 26.9 80.7

134 336.3 13.6 40.8

Manual Integrations

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Reviewed By :John Carlone 06/20/2022

Supervised By :Mahesh Dadoda 06/30/2022

