

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081623\  
 Data File : VN078915.D  
 Acq On : 16 Aug 2023 20:08  
 Operator : JC\MD  
 Sample : 03983-02  
 Misc : 1.02g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1673

Quant Time: Aug 17 01:22:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 08/17/2023  
 Supervised By :Mahesh Dadoda 08/17/2023

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.224          | 168  | 190039     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.106          | 114  | 336042     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.871         | 117  | 313399     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.794         | 152  | 143938     | 50.000   | ug/l   | # 0.00   |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.583          | 65   | 130742     | 44.212   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 88.420%  |        |          |
| 35) Dibromofluoromethane    | 8.165          | 113  | 106164     | 46.932   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 93.860%  |        |          |
| 50) Toluene-d8              | 10.571         | 98   | 409547     | 48.760   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 97.520%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.853         | 95   | 151353     | 55.130   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 110.260% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          |        |          |
|                             |                |      |            |          | Qvalue |          |
| 18) Methyl Acetate          | 5.036          | 43   | 14467      | 2.807    | ug/l # | 65       |
| 39) Methylcyclohexane       | 9.594          | 83   | 15460      | 4.940    | ug/l # | 85       |
| 52) Toluene                 | 10.641         | 92   | 27118      | 4.392    | ug/l   | 99       |
| 67) Ethyl Benzene           | 11.965         | 91   | 64291      | 5.299    | ug/l # | 88       |
| 68) m/p-Xylenes             | 12.071         | 106  | 101063     | 22.281   | ug/l   | 94       |
| 69) o-Xylene                | 12.406         | 106  | 62583      | 14.184   | ug/l   | 94       |
| 73) Isopropylbenzene        | 12.700         | 105  | 46463      | 3.871    | ug/l   | 99       |
| 78) n-propylbenzene         | 13.041         | 91   | 183376     | 13.176   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 13.176         | 105  | 303888     | 31.951   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.488         | 105  | 1102878    | 117.108  | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.623         | 105  | 169867     | 15.446   | ug/l   | 85       |
| 86) p-Isopropyltoluene      | 13.735         | 119  | 115595     | 13.156   | ug/l   | 92       |
| 89) n-Butylbenzene          | 14.059         | 91   | 277376m    | 38.360   | ug/l   |          |
| 95) Naphthalene             | 15.647         | 128  | 169192     | 26.769   | ug/l # | 96       |
| -----                       |                |      |            |          |        |          |

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

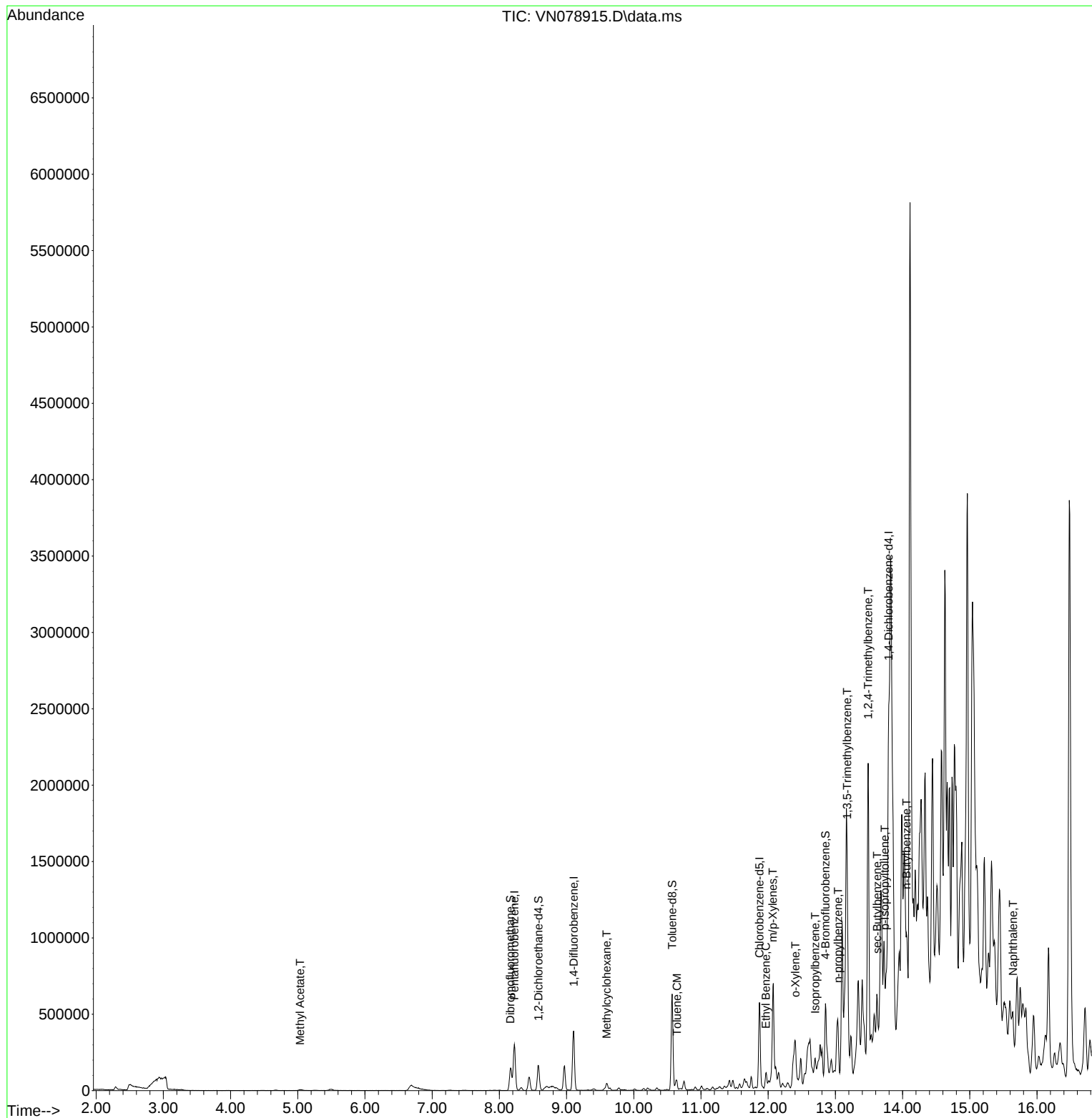
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081623\  
Data File : VN078915.D  
Acq On : 16 Aug 2023 20:08  
Operator : JC\MD  
Sample : 03983-02  
Misc : 1.02g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 27 Sample Multiplier: 1

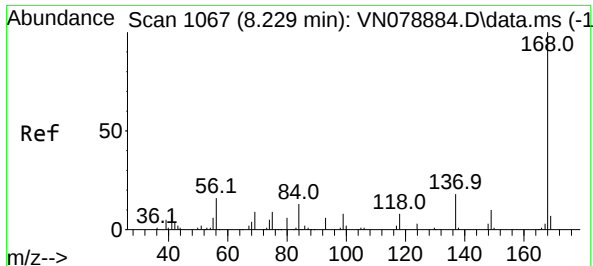
Instrument :  
MSVOA\_N  
ClientSampleId :  
1673

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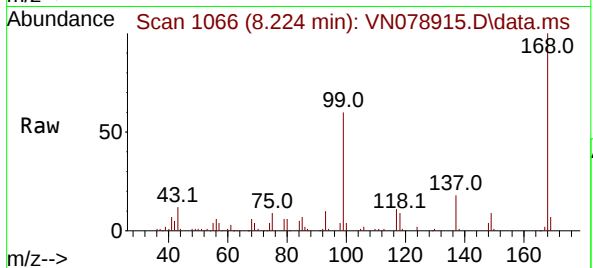
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 16 02:42:02 2023  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.006 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

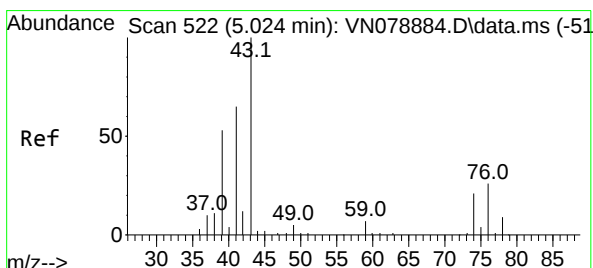
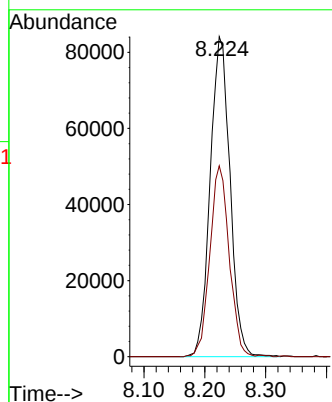
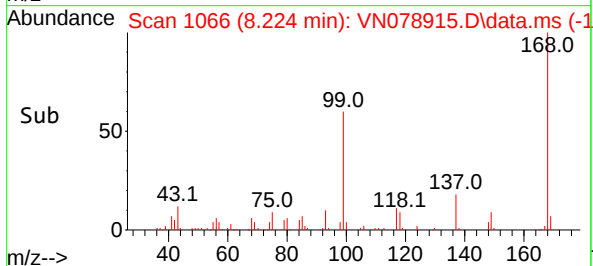
Instrument :  
MSVOA\_N  
ClientSampleId :  
1673



Tgt Ion:168 Resp: 190039  
Ion Ratio Lower Upper  
168 100  
99 59.7 53.0 79.6

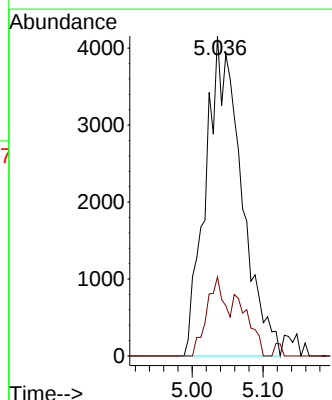
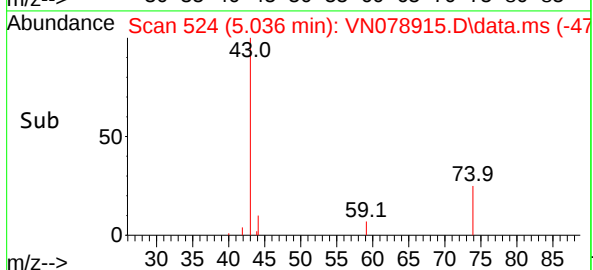
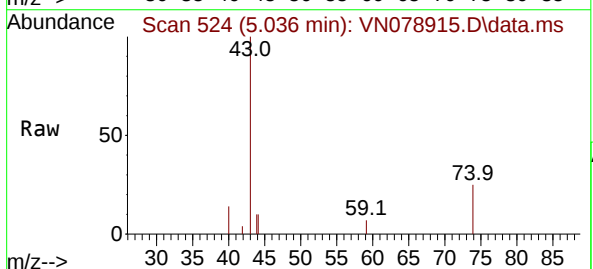
Manual Integrations  
APPROVED

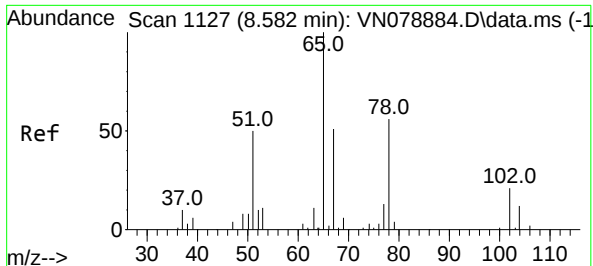
Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023



#18  
Methyl Acetate  
Concen: 2.807 ug/l  
RT: 5.036 min Scan# 524  
Delta R.T. -0.006 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

Tgt Ion: 43 Resp: 14467  
Ion Ratio Lower Upper  
43 100  
74 13.3 26.2 39.4#





#33

1,2-Dichloroethane-d4

Concen: 44.212 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078915.D

Acq: 16 Aug 2023 20:08

Instrument :

MSVOA\_N

ClientSampleId :

1673

Tgt Ion: 65 Resp: 13074

Ion Ratio Lower Upper

65 100

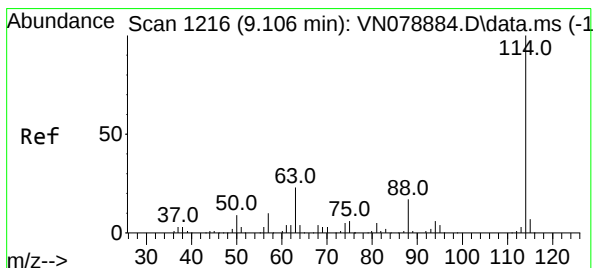
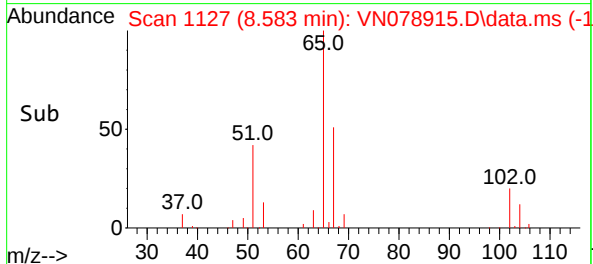
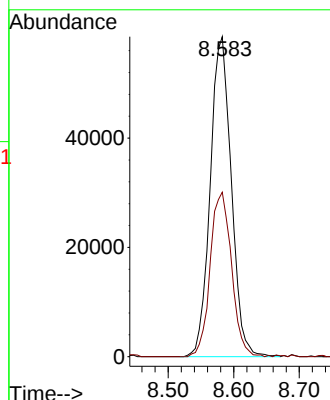
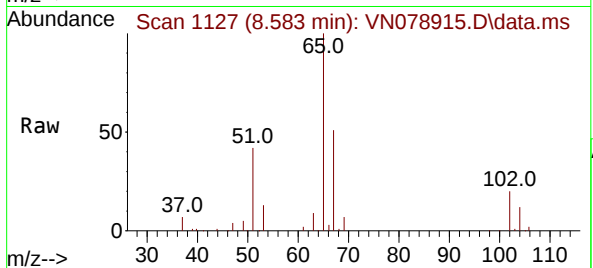
67 52.0 0.0 106.6

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078915.D

Acq: 16 Aug 2023 20:08

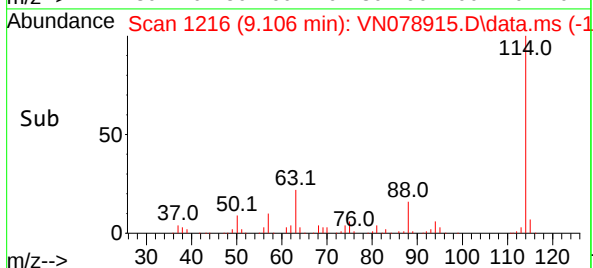
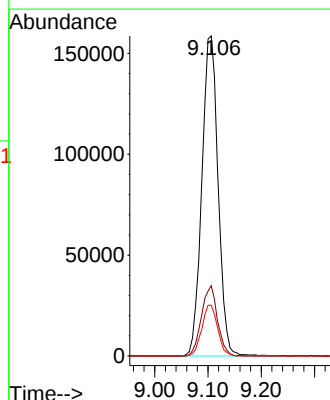
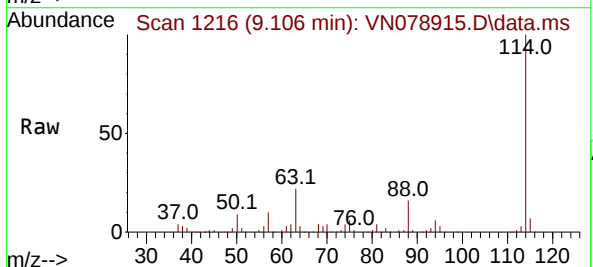
Tgt Ion:114 Resp: 336042

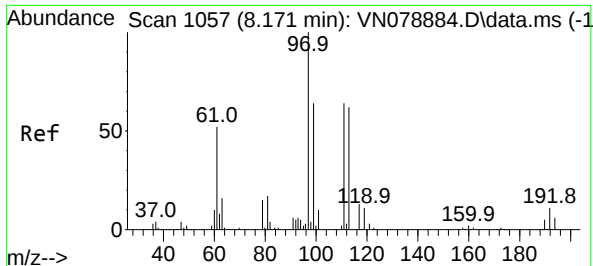
Ion Ratio Lower Upper

114 100

63 22.0 0.0 36.4

88 15.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 46.932 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN078915.D

Acq: 16 Aug 2023 20:08

Instrument :

MSVOA\_N

ClientSampleId :

1673

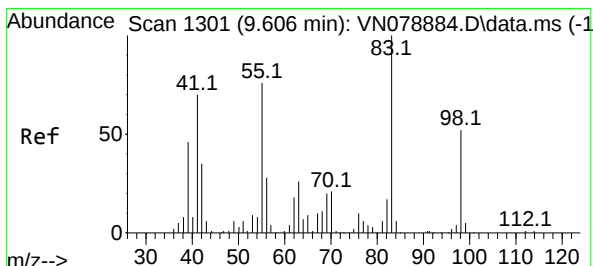
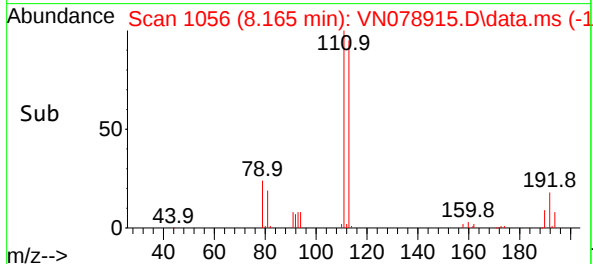
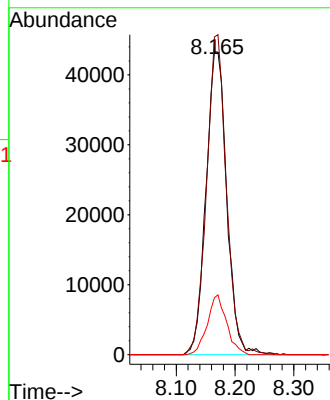
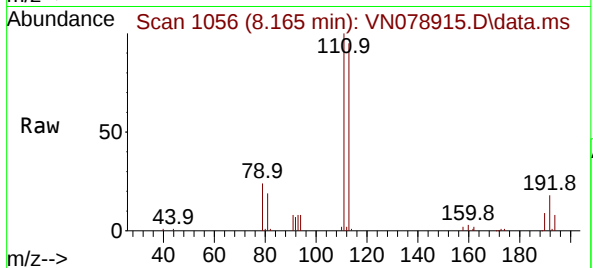
Tgt Ion: 113 Resp: 106164  
 Ion Ratio Lower Upper  
 113 100  
 111 100.6 82.6 123.8  
 192 18.4 12.7 19.1

Manual Integrations

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Supervised By :Mahesh Dadoda 08/17/2023



#39

Methylcyclohexane

Concen: 4.940 ug/l

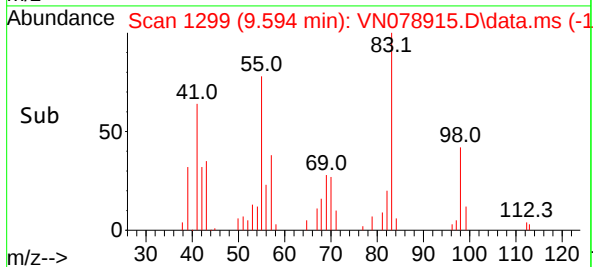
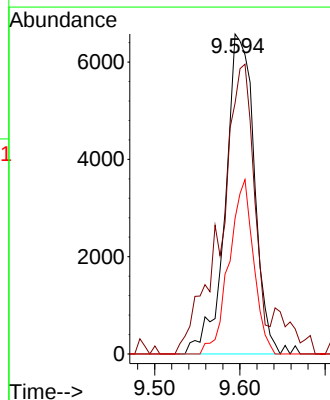
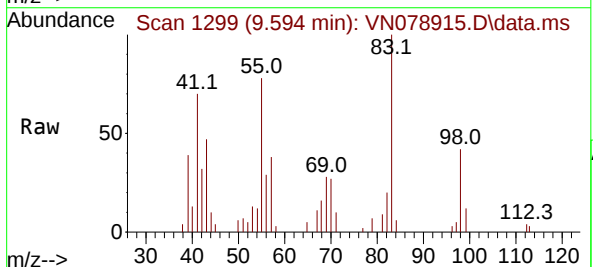
RT: 9.594 min Scan# 1299

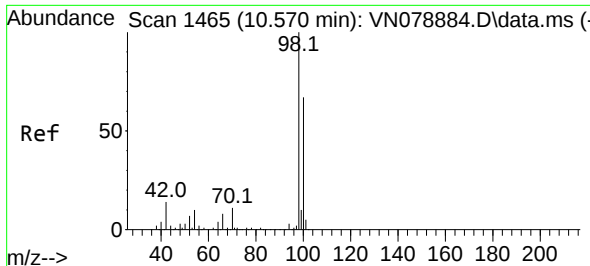
Delta R.T. -0.012 min

Lab File: VN078915.D

Acq: 16 Aug 2023 20:08

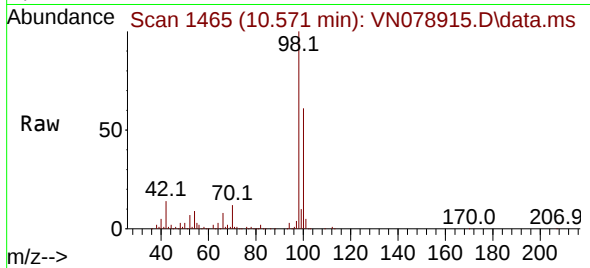
Tgt Ion: 83 Resp: 15460  
 Ion Ratio Lower Upper  
 83 100  
 55 75.2 49.1 73.7#  
 98 42.4 40.6 61.0





#50  
Toluene-d8  
Concen: 48.760 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

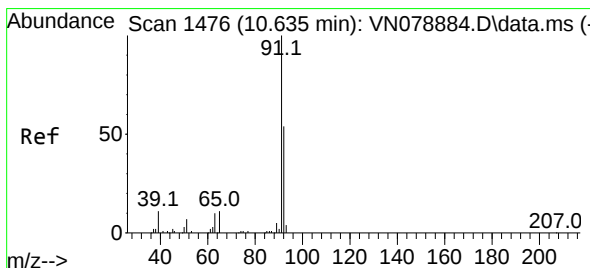
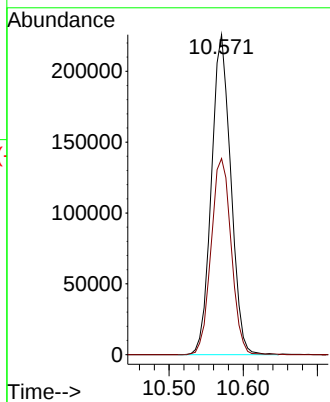
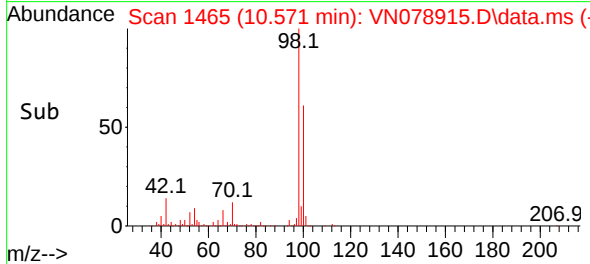
Instrument :  
MSVOA\_N  
ClientSampleId :  
1673



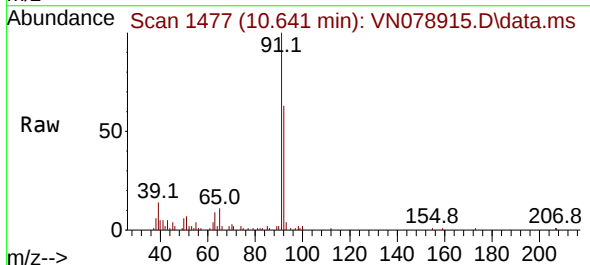
Tgt Ion: 98 Resp: 40954  
Ion Ratio Lower Upper  
98 100  
100 63.6 52.0 78.0

Manual Integrations  
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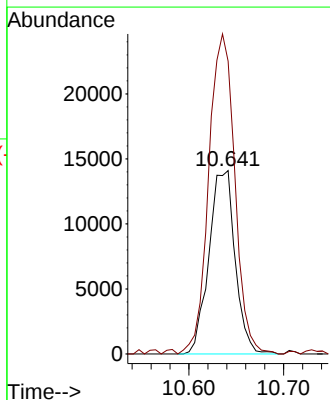
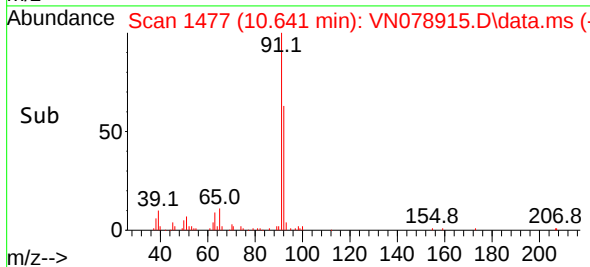
Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023

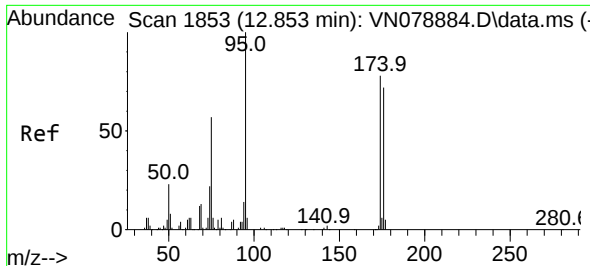


#52  
Toluene  
Concen: 4.392 ug/l  
RT: 10.641 min Scan# 1477  
Delta R.T. 0.006 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08



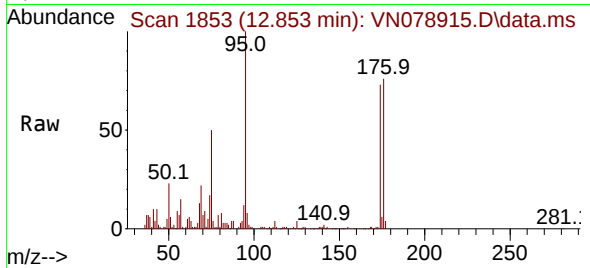
Tgt Ion: 92 Resp: 27118  
Ion Ratio Lower Upper  
92 100  
91 173.3 137.4 206.0





#62  
4-Bromofluorobenzene  
Concen: 55.130 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

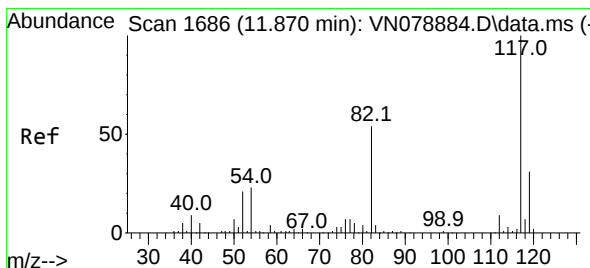
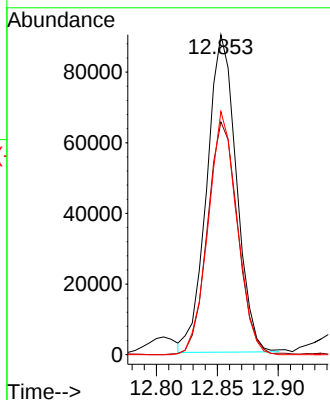
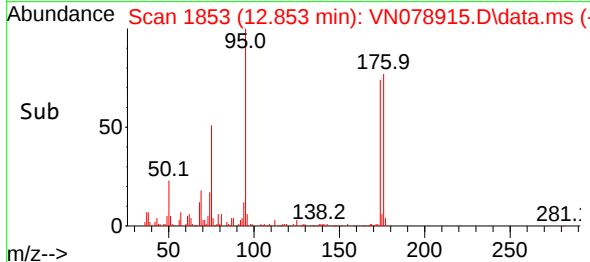
Instrument :  
MSVOA\_N  
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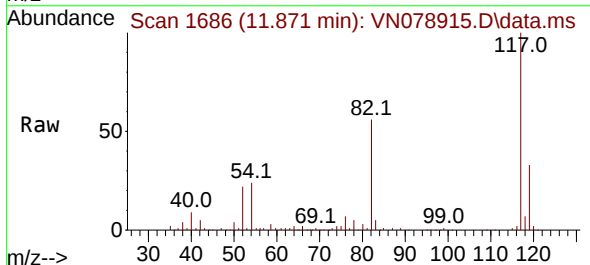
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Ion Ratio Lower Upper  
95 100  
174 75.3 0.0 143.8  
176 74.8 0.0 135.8

Manual Integrations  
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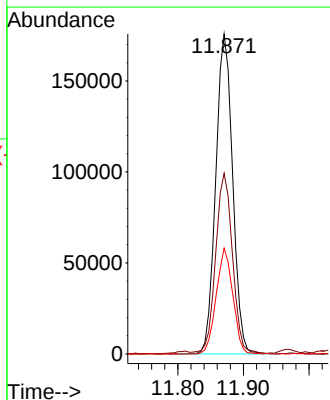
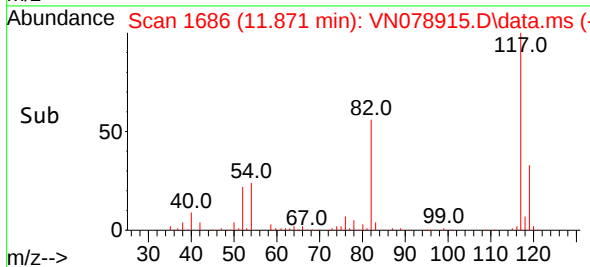
Reviewed By :John Carlone 08/17/2023  
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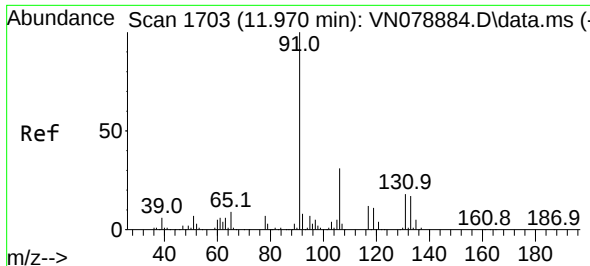


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08



Tgt Ion:117 Resp: 313399  
Ion Ratio Lower Upper  
117 100  
82 55.7 44.0 66.0  
119 33.1 25.6 38.4





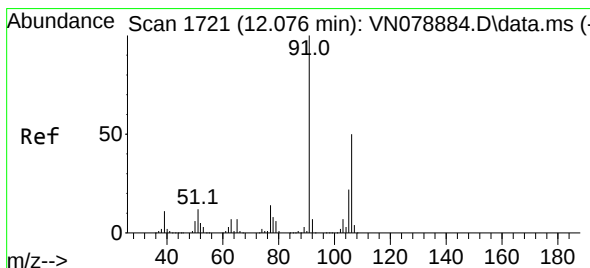
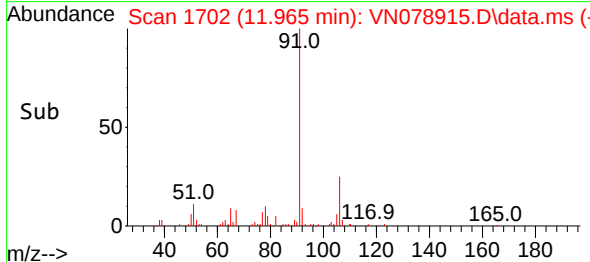
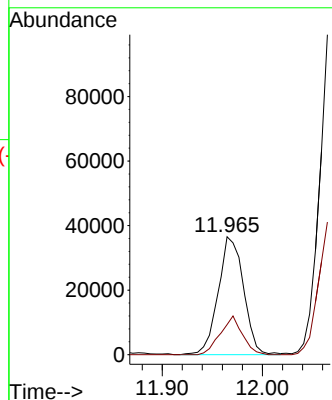
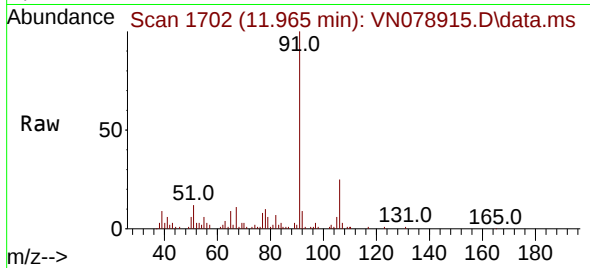
#67  
Ethyl Benzene  
Concen: 5.299 ug/l  
RT: 11.965 min Scan# 1196  
Delta R.T. -0.006 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

Instrument :  
MSVOA\_N  
ClientSampleId :  
1673

Tgt Ion: 91 Resp: 6429  
Ion Ratio Lower Upper  
91 100  
106 25.5 25.6 38.4

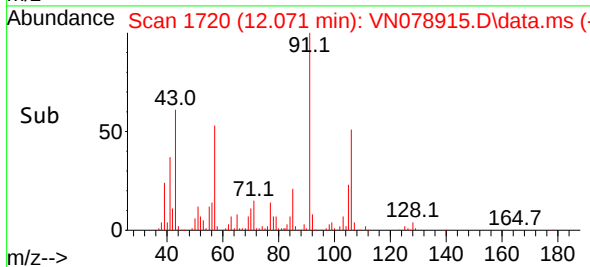
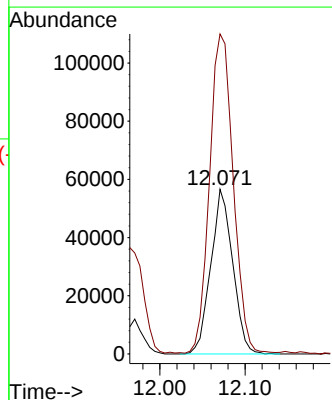
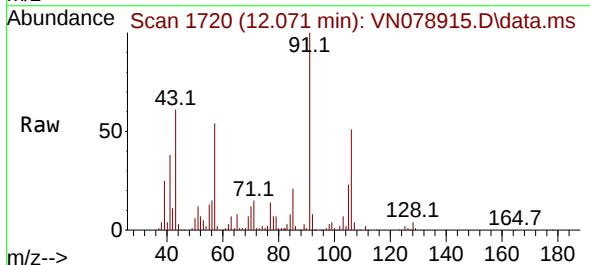
Manual Integrations  
APPROVED

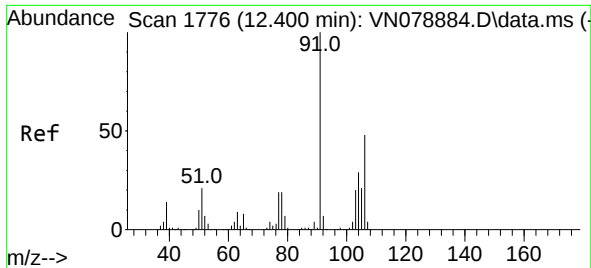
Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023



#68  
m/p-Xylenes  
Concen: 22.281 ug/l  
RT: 12.071 min Scan# 1720  
Delta R.T. -0.005 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

Tgt Ion:106 Resp: 101063  
Ion Ratio Lower Upper  
106 100  
91 209.3 159.6 239.4





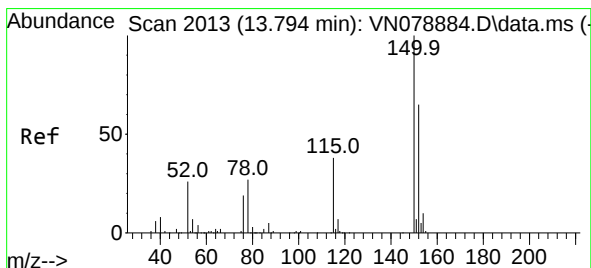
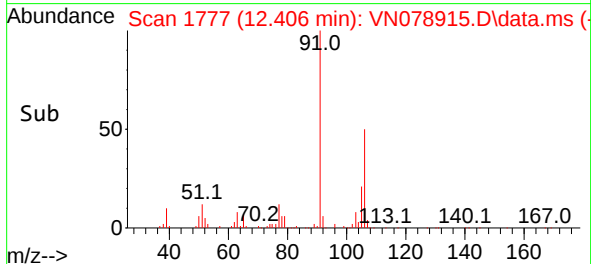
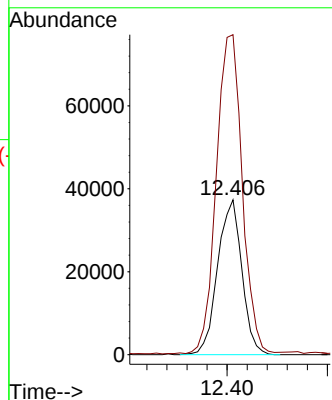
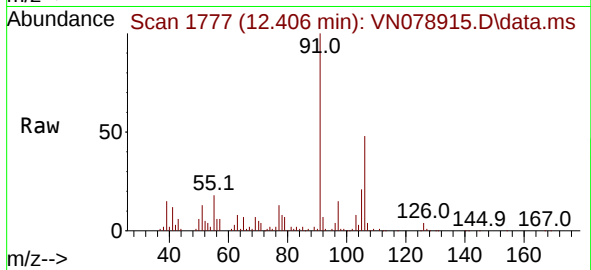
#69  
o-Xylene  
Concen: 14.184 ug/l  
RT: 12.406 min Scan# 11673  
Delta R.T. 0.006 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

Instrument :  
MSVOA\_N  
ClientSampleId :  
1673

Tgt Ion:106 Resp: 62583  
Ion Ratio Lower Upper  
106 100  
91 220.3 105.2 315.5

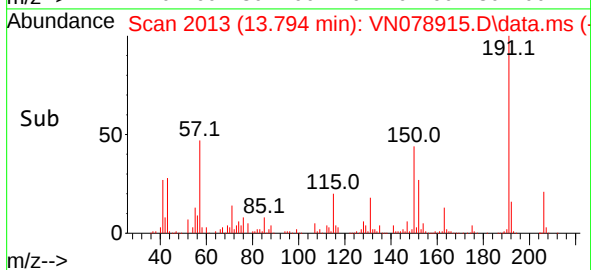
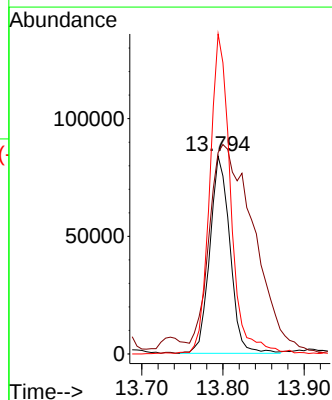
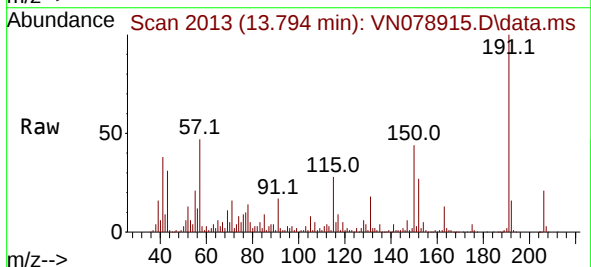
Manual Integrations  
APPROVED

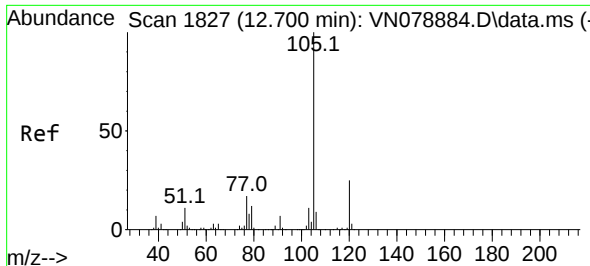
Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

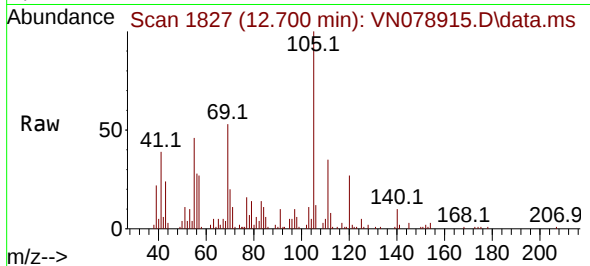
Tgt Ion:152 Resp: 143938  
Ion Ratio Lower Upper  
152 100  
115 235.2 32.3 96.8#  
150 170.0 0.0 355.8





#73  
Isopropylbenzene  
Concen: 3.871 ug/l  
RT: 12.700 min Scan# 11673  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

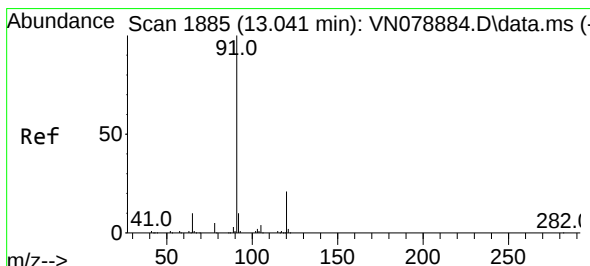
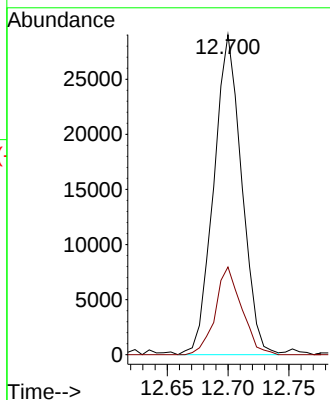
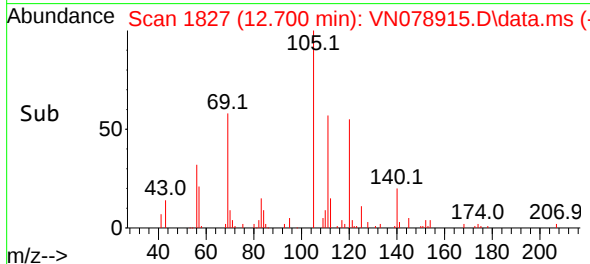
Instrument :  
MSVOA\_N  
ClientSampleId :  
1673



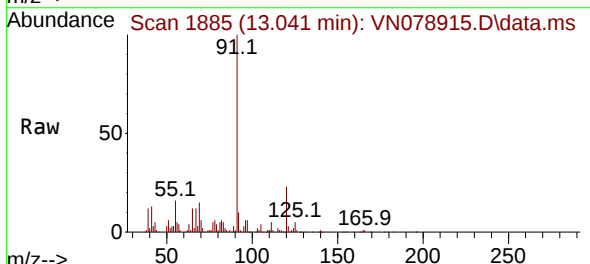
Tgt Ion:105 Resp: 4646  
Ion Ratio Lower Upper  
105 100  
120 25.8 13.1 39.1

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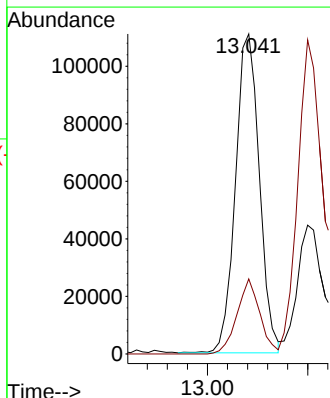
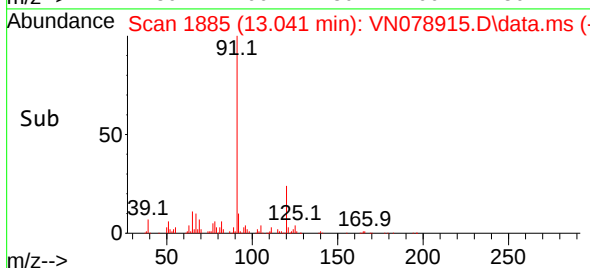
Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023

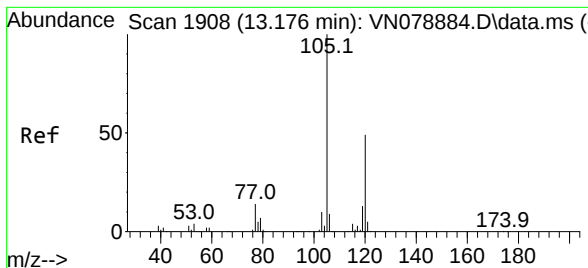


#78  
n-propylbenzene  
Concen: 13.176 ug/l  
RT: 13.041 min Scan# 1885  
Delta R.T. 0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08



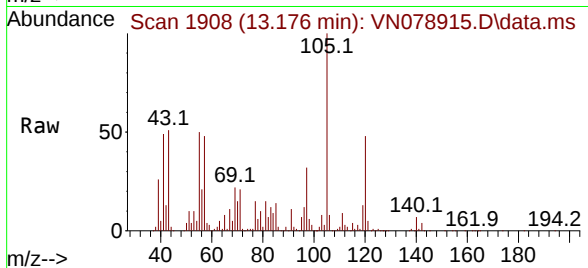
Tgt Ion: 91 Resp: 183376  
Ion Ratio Lower Upper  
91 100  
120 22.5 11.5 34.4





#80  
1,3,5-Trimethylbenzene  
Concen: 31.951 ug/l  
RT: 13.176 min Scan# 1908  
Delta R.T. 0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

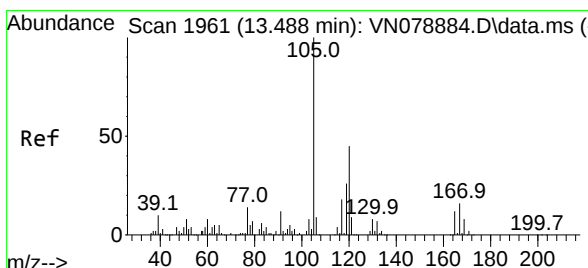
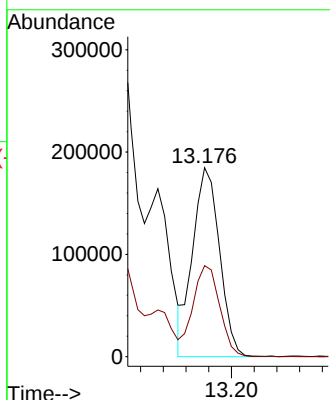
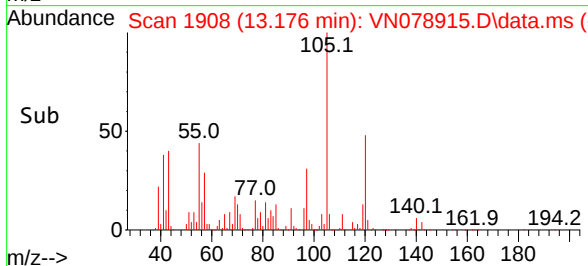
Instrument :  
MSVOA\_N  
ClientSampleId :  
1673



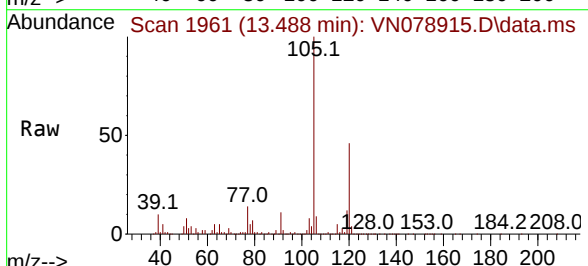
Tgt Ion:105 Resp: 30388  
Ion Ratio Lower Upper  
105 100  
120 47.9 24.1 72.3

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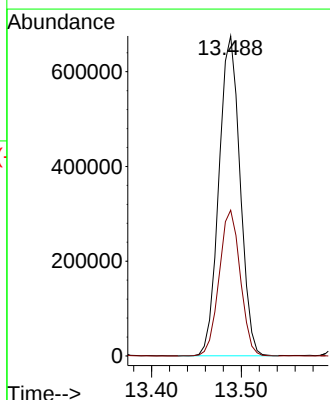
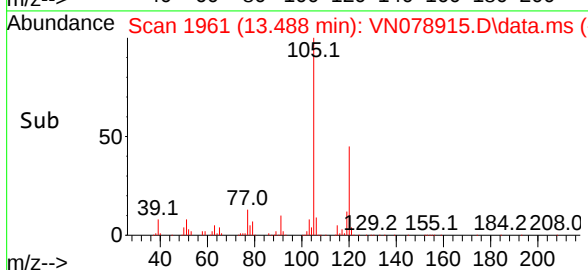
Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023

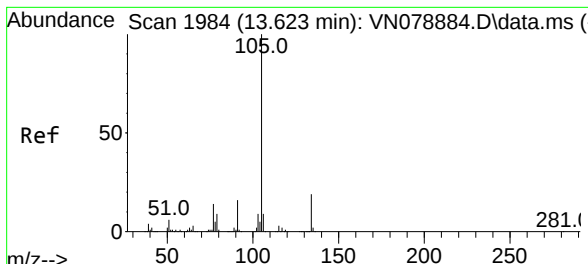


#84  
1,2,4-Trimethylbenzene  
Concen: 117.108 ug/l  
RT: 13.488 min Scan# 1961  
Delta R.T. 0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08



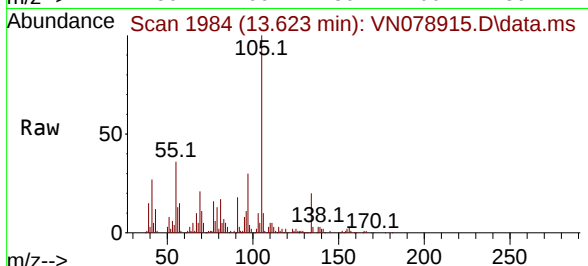
Tgt Ion:105 Resp: 1102878  
Ion Ratio Lower Upper  
105 100  
120 45.6 22.0 66.0





#85  
 sec-Butylbenzene  
 Concen: 15.446 ug/l  
 RT: 13.623 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: VN078915.D  
 Acq: 16 Aug 2023 20:08

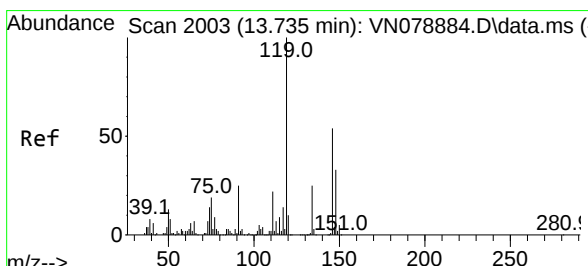
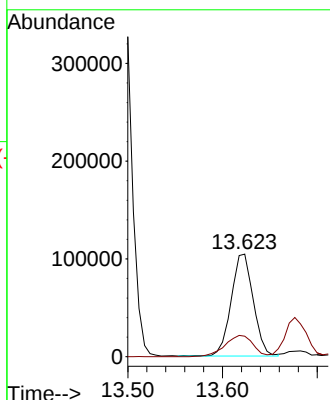
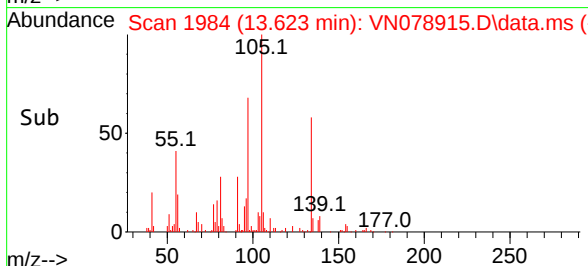
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 1673



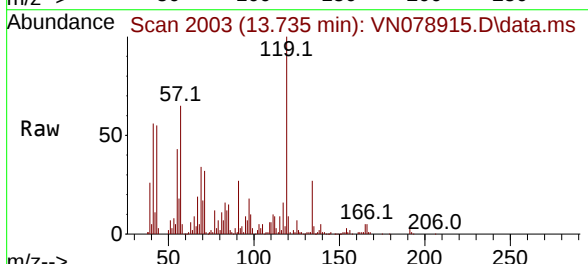
Tgt Ion:105 Resp: 16986  
 Ion Ratio Lower Upper  
 105 100  
 134 26.5 9.8 29.3

Manual Integrations  
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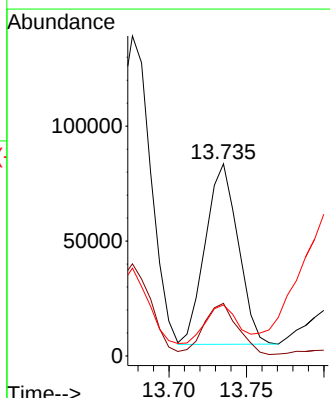
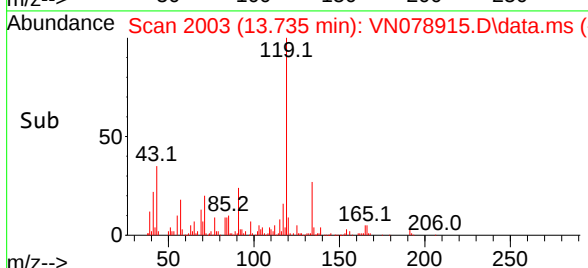
Reviewed By :John Carlone 08/17/2023  
 Supervised By :Mahesh Dadoda 08/17/2023

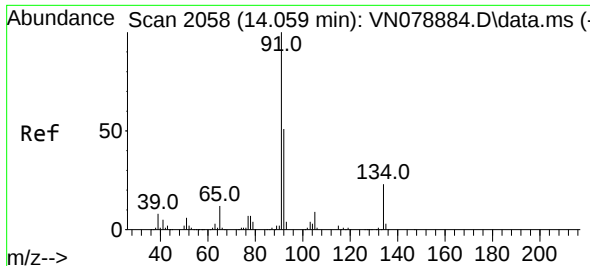


#86  
 p-Isopropyltoluene  
 Concen: 13.156 ug/l  
 RT: 13.735 min Scan# 2003  
 Delta R.T. 0.000 min  
 Lab File: VN078915.D  
 Acq: 16 Aug 2023 20:08



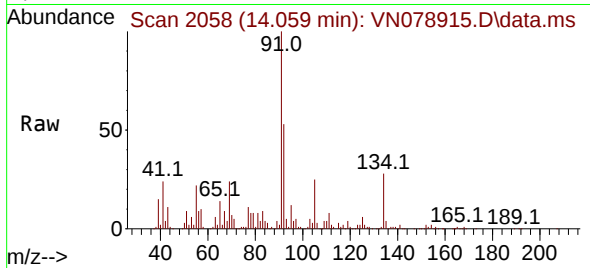
Tgt Ion:119 Resp: 115595  
 Ion Ratio Lower Upper  
 119 100  
 134 29.0 12.6 37.8  
 91 20.8 12.4 37.2





#89  
n-Butylbenzene  
Concen: 38.360 ug/l m  
RT: 14.059 min Scan# 2058  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

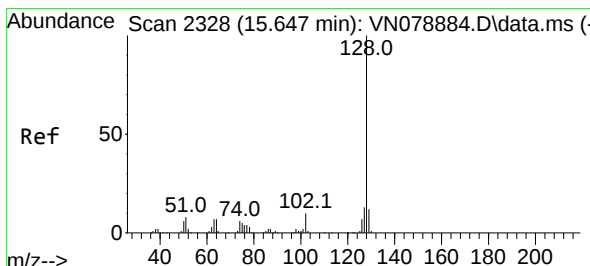
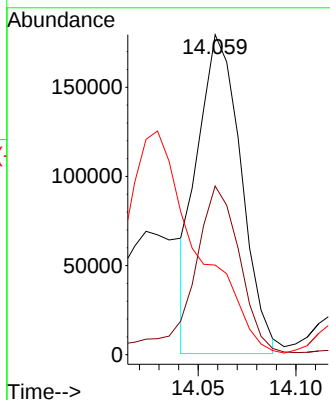
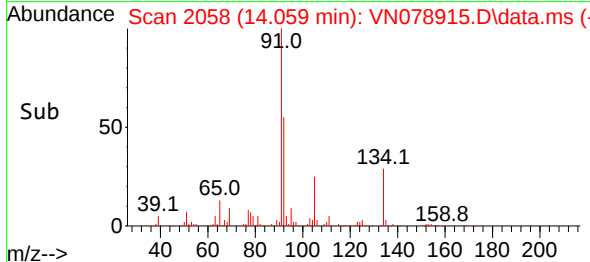
Instrument :  
MSVOA\_N  
ClientSampleId :  
1673



Tgt Ion: 91 Resp: 277370  
Ion Ratio Lower Upper  
91 100  
92 55.7 26.4 79.0  
134 0.0 12.6 37.6

Manual Integrations  
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Reviewed By :John Carlone 08/17/2023  
Supervised By :Mahesh Dadoda 08/17/2023



#95  
Naphthalene  
Concen: 26.769 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. -0.000 min  
Lab File: VN078915.D  
Acq: 16 Aug 2023 20:08

Tgt Ion:128 Resp: 169192  
Ion Ratio Lower Upper  
128 100  
127 12.2 10.0 15.0  
129 8.0 8.7 13.1#

