

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091124\  
 Data File : VN083801.D  
 Acq On : 11 Sep 2024 17:33  
 Operator : JC\MD  
 Sample : P3839-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 830

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 09/12/2024  
 Supervised By :Mahesh Dadoda 09/12/2024

Quant Time: Sep 11 18:46:35 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                       |                |      |                     |        |        |          |
| Internal Standards          |                |      |                     |        |        |          |
| 1) Pentafluorobenzene       | 8.218          | 168  | 116718              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.100          | 114  | 240949              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.865         | 117  | 263856              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.788         | 152  | 133383              | 50.000 | ug/l   | 0.00     |
|                             |                |      |                     |        |        |          |
| System Monitoring Compounds |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.576          | 65   | 88597               | 50.341 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = 100.680% |        |        |          |
| 35) Dibromofluoromethane    | 8.165          | 113  | 71554               | 46.388 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = 92.780%  |        |        |          |
| 50) Toluene-d8              | 10.565         | 98   | 262108              | 49.152 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = 98.300%  |        |        |          |
| 62) 4-Bromofluorobenzene    | 12.847         | 95   | 120710              | 54.866 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 77 - 121 |      | Recovery = 109.740% |        |        |          |
|                             |                |      |                     |        |        |          |
| Target Compounds            |                |      |                     |        | Qvalue |          |
| 16) Acetone                 | 4.436          | 43   | 39107               | 55.430 | ug/l   | 91       |
| 18) Methyl Acetate          | 5.024          | 43   | 9809                | 5.003  | ug/l # | 68       |
| 25) 2-Butanone              | 7.488          | 43   | 13438               | 14.492 | ug/l   | 95       |
| 40) Benzene                 | 8.600          | 78   | 4429                | 0.634  | ug/l # | 81       |
| 52) Toluene                 | 10.623         | 92   | 8547                | 2.000  | ug/l   | 92       |
| 65) Chlorobenzene           | 11.882         | 112  | 1722                | 0.294  | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.964         | 91   | 4806                | 0.461  | ug/l   | 94       |
| 68) m/p-Xylenes             | 12.065         | 106  | 5865                | 1.516  | ug/l   | 95       |
| 69) o-Xylene                | 12.400         | 106  | 3031                | 0.810  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene  | 13.170         | 105  | 2937                | 0.338  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene  | 13.476         | 105  | 6934                | 0.793  | ug/l   | 96       |
| 85) sec-Butylbenzene        | 13.617         | 105  | 2852                | 0.283  | ug/l   | 94       |
| 86) p-Isopropyltoluene      | 13.729         | 119  | 2691                | 0.318  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene     | 13.735         | 146  | 2868                | 0.612  | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene     | 13.811         | 146  | 4109m               | 0.866  | ug/l   |          |
| 89) n-Butylbenzene          | 14.053         | 91   | 4314                | 0.568  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene     | 14.111         | 146  | 2366                | 0.523  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene  | 15.394         | 180  | 2638                | 1.087  | ug/l   | 88       |
| -----                       |                |      |                     |        |        |          |

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

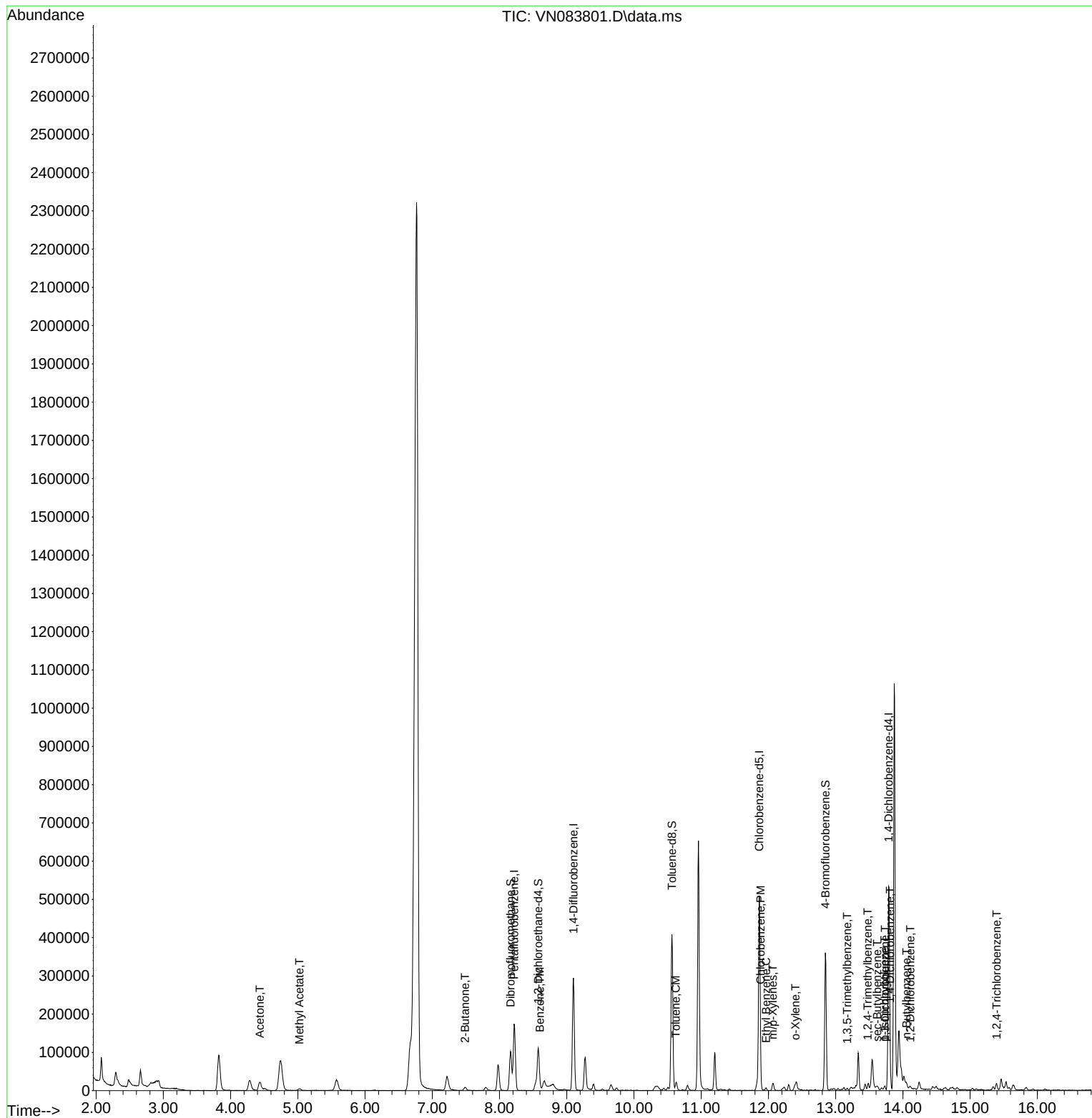
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091124\  
Data File : VN083801.D  
Acq On : 11 Sep 2024 17:33  
Operator : JC\MD  
Sample : P3839-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

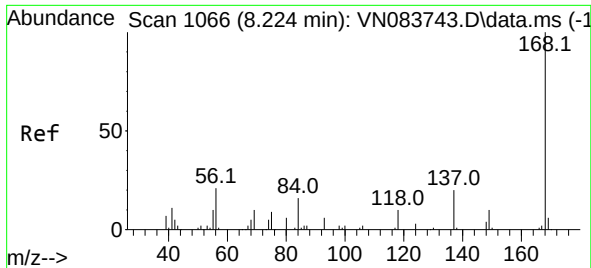
Instrument :  
MSVOA\_N  
ClientSampleId :  
830

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024

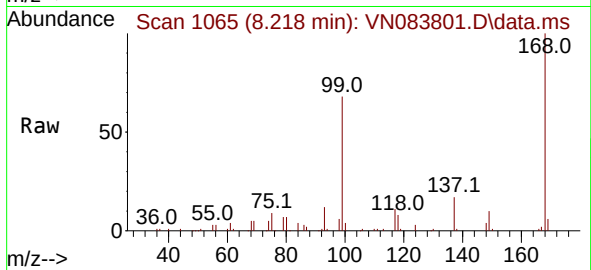
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

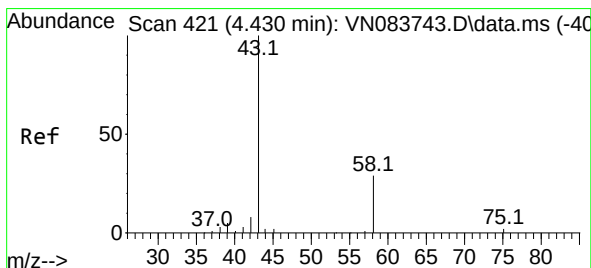
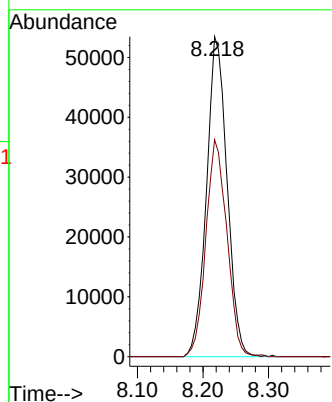
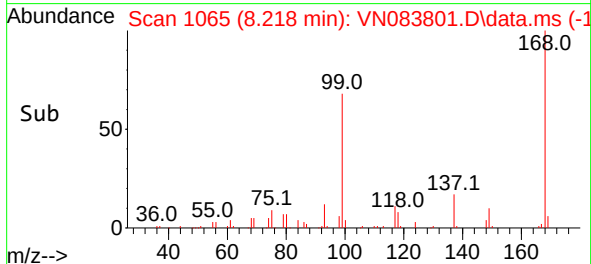
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



Tgt Ion:168 Resp: 116718  
Ion Ratio Lower Upper  
168 100  
99 67.8 54.2 81.2

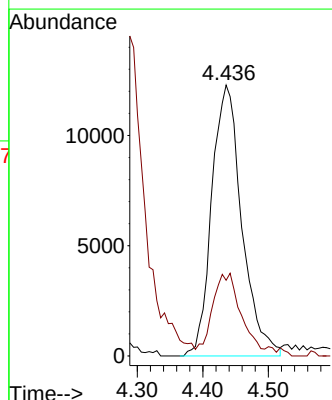
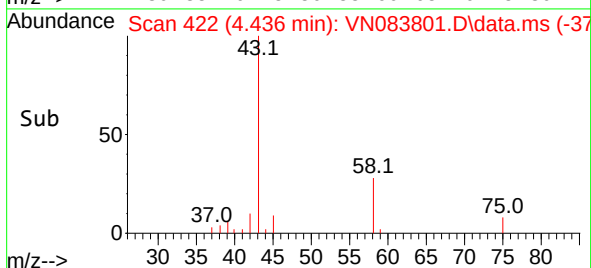
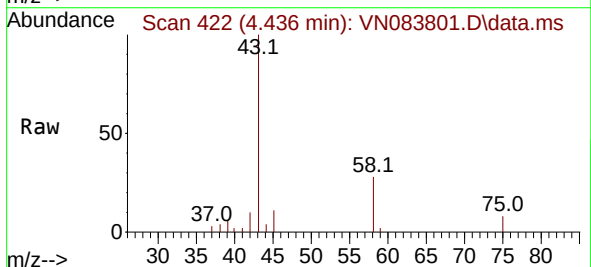
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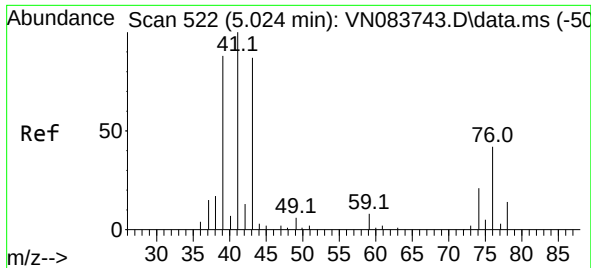
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



#16  
Acetone  
Concen: 55.430 ug/l  
RT: 4.436 min Scan# 422  
Delta R.T. 0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

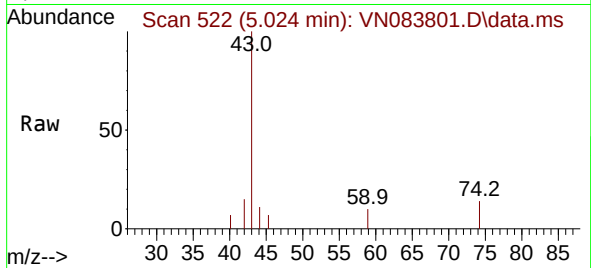
Tgt Ion: 43 Resp: 39107  
Ion Ratio Lower Upper  
43 100  
58 25.0 23.7 35.5





#18  
Methyl Acetate  
Concen: 5.003 ug/l  
RT: 5.024 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

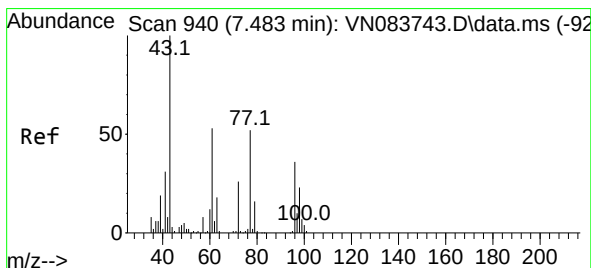
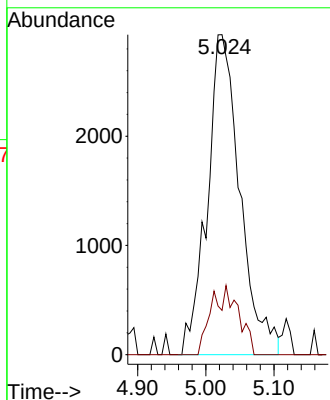
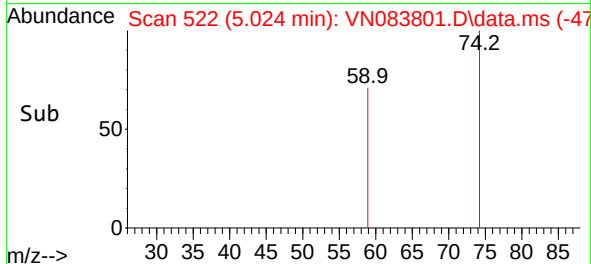
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



Tgt Ion: 43 Resp: 9809  
Ion Ratio Lower Upper  
43 100  
74 8.1 19.0 28.4

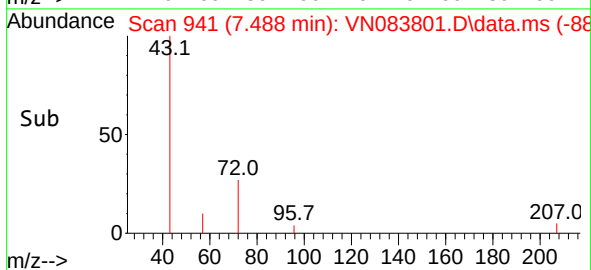
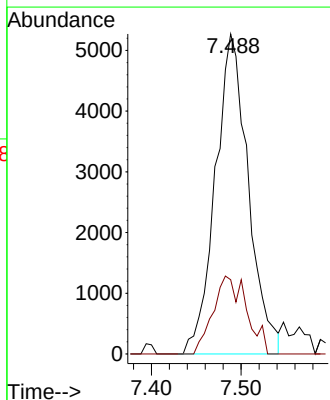
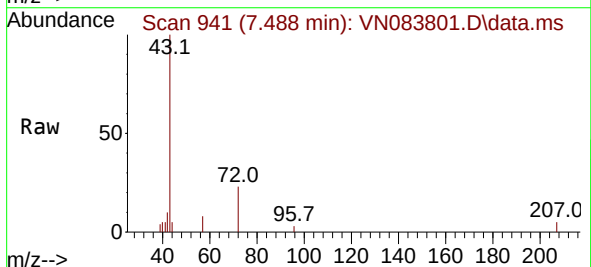
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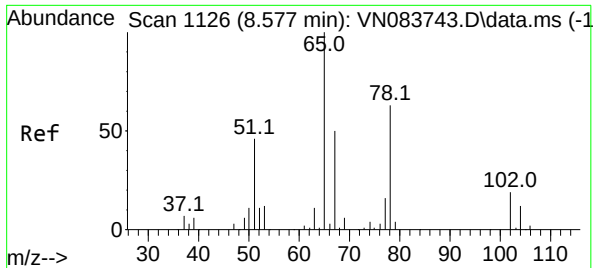
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



#25  
2-Butanone  
Concen: 14.492 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

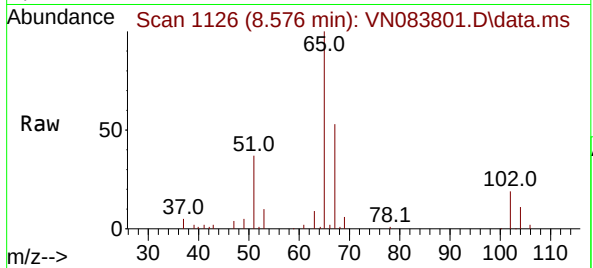
Tgt Ion: 43 Resp: 13438  
Ion Ratio Lower Upper  
43 100  
72 23.2 20.8 31.2





#33  
1,2-Dichloroethane-d4  
Concen: 50.341 ug/l  
RT: 8.576 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

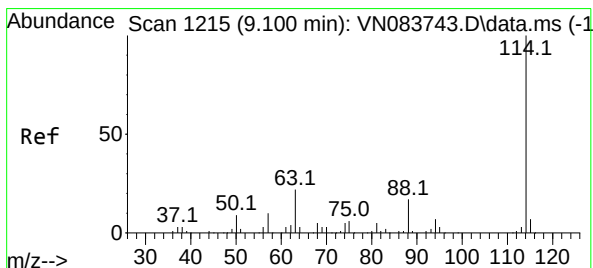
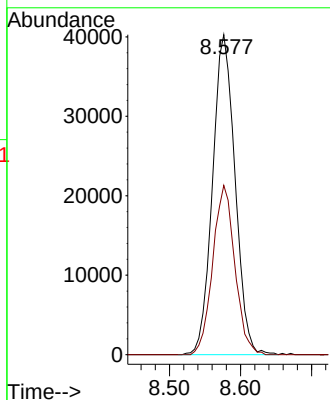
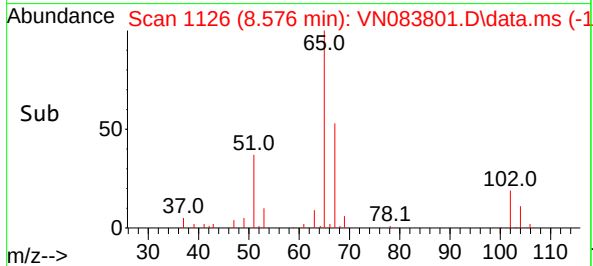
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



Tgt Ion: 65 Resp: 8859  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 100.8

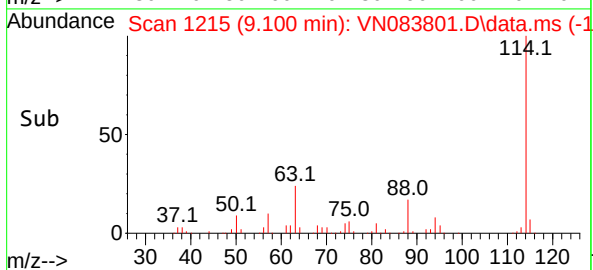
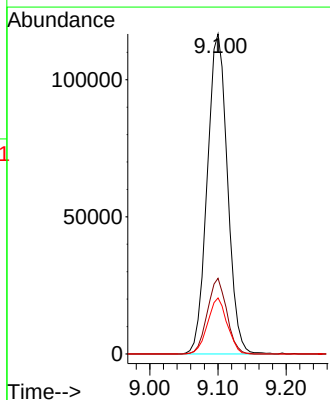
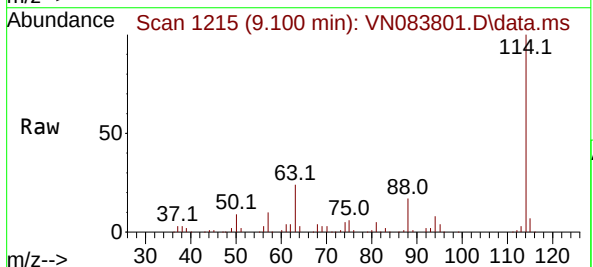
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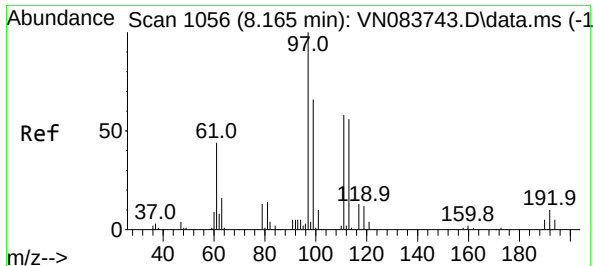
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 1215  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

Tgt Ion:114 Resp: 240949  
Ion Ratio Lower Upper  
114 100  
63 23.7 0.0 43.4  
88 17.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 46.388 ug/l

RT: 8.165 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VN083801.D

Acq: 11 Sep 2024 17:33

Instrument :

MSVOA\_N

ClientSampleId :

830

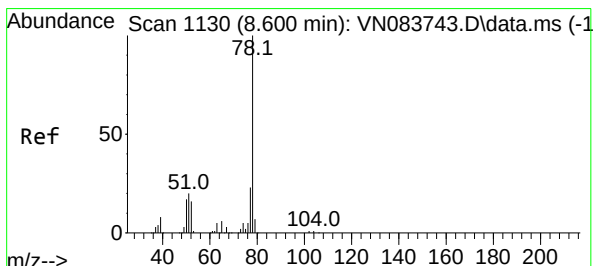
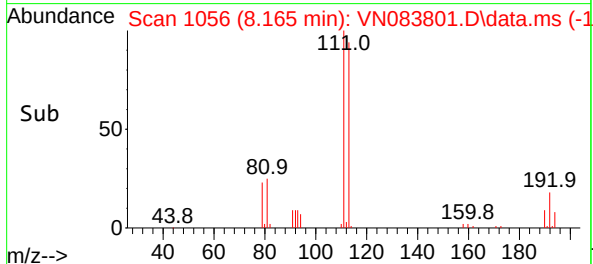
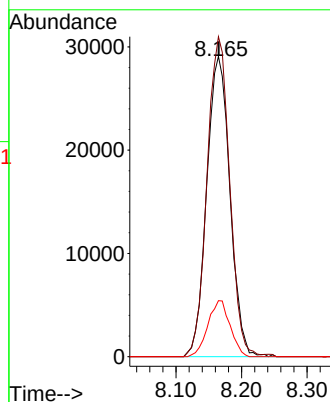
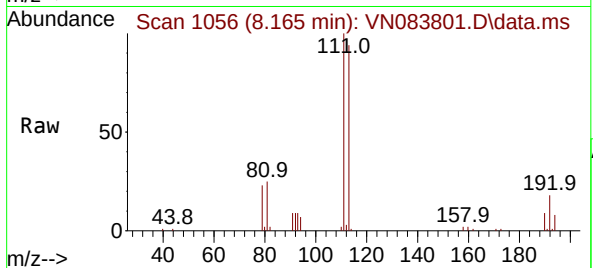
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 71554 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.9 | 82.6  | 124.0 |
| 192      | 17.8  | 14.3  | 21.5  |

Manual Integrations

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Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#40

Benzene

Concen: 0.634 ug/l

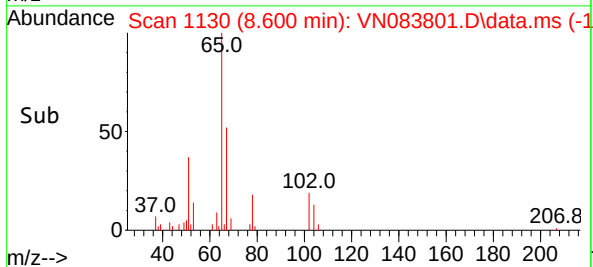
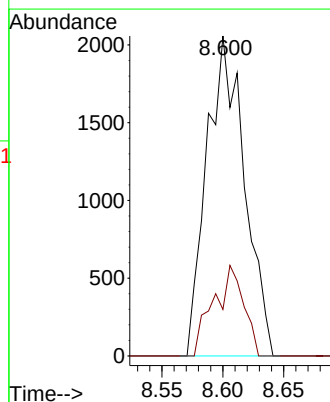
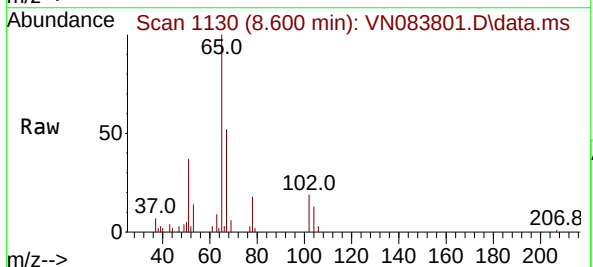
RT: 8.600 min Scan# 1130

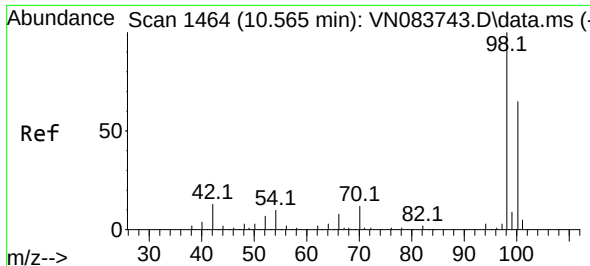
Delta R.T. -0.000 min

Lab File: VN083801.D

Acq: 11 Sep 2024 17:33

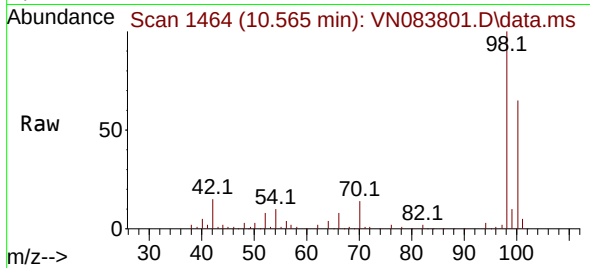
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 4429  |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 14.5  | 19.0  | 28.6# |





#50  
Toluene-d8  
Concen: 49.152 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

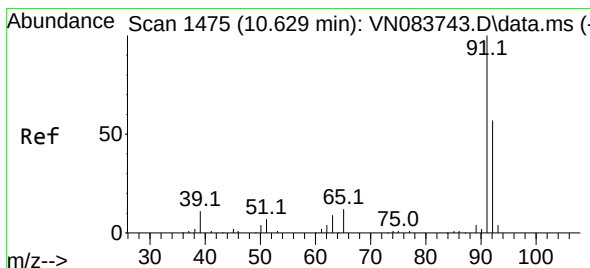
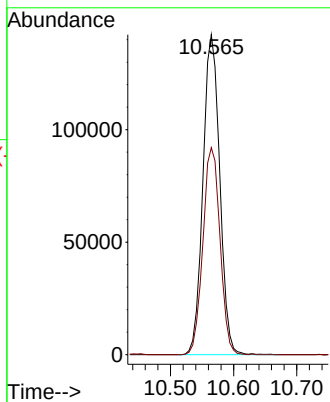
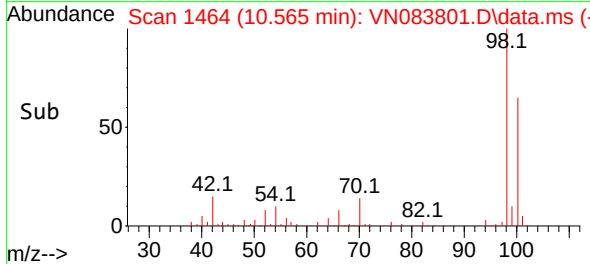
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



Tgt Ion: 98 Resp: 262108  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.0 78.0

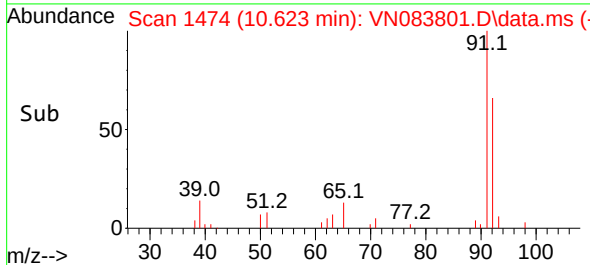
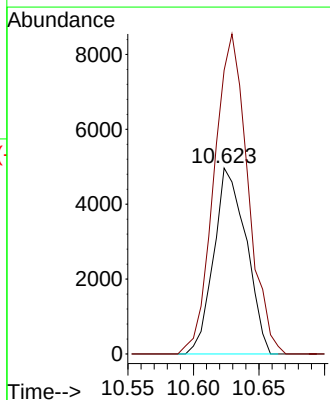
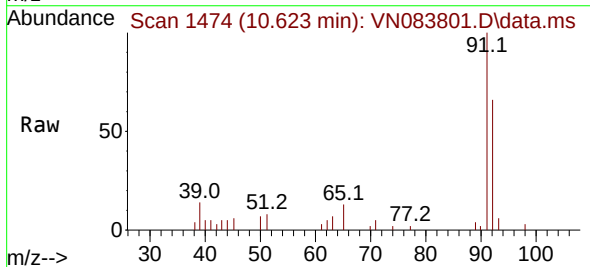
Manual Integrations  
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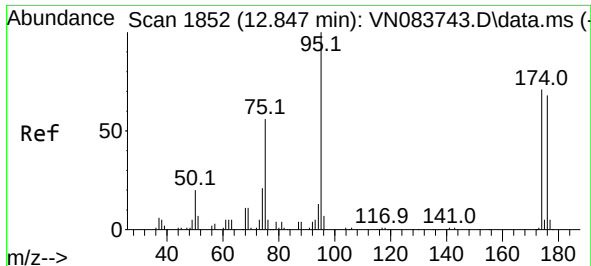
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



#52  
Toluene  
Concen: 2.000 ug/l  
RT: 10.623 min Scan# 1474  
Delta R.T. -0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

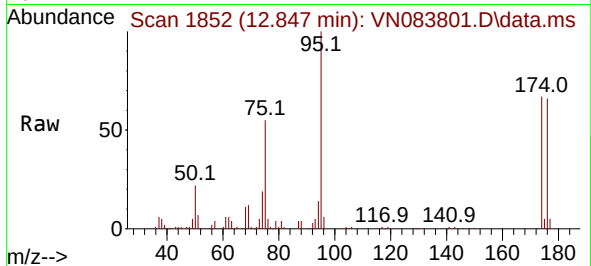
Tgt Ion: 92 Resp: 8547  
Ion Ratio Lower Upper  
92 100  
91 179.6 134.7 202.1





#62  
4-Bromofluorobenzene  
Concen: 54.866 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

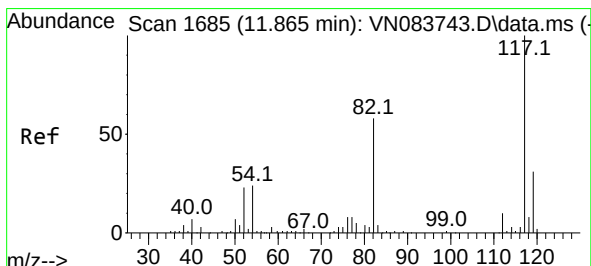
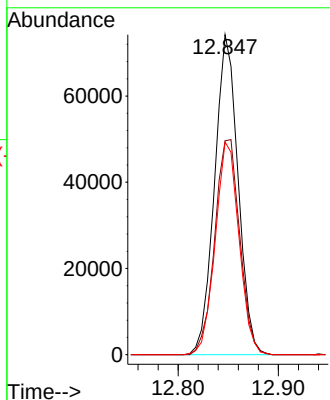
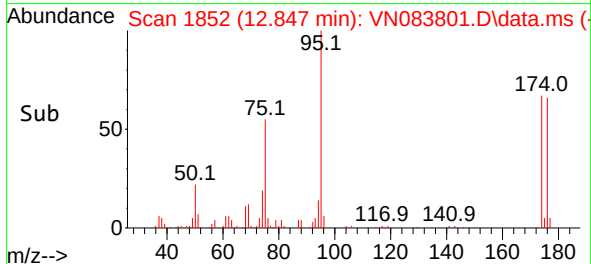
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



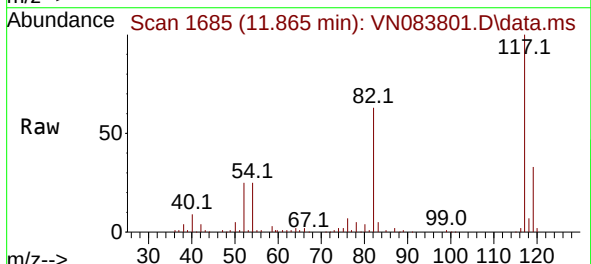
Tgt Ion: 95 Resp: 120710  
Ion Ratio Lower Upper  
95 100  
174 71.6 0.0 139.8  
176 67.2 0.0 131.4

Manual Integrations  
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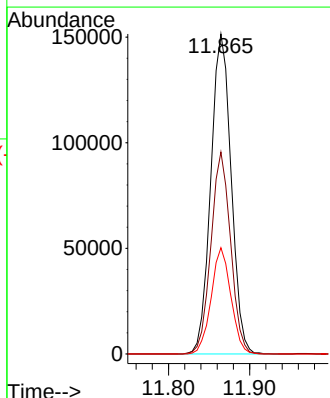
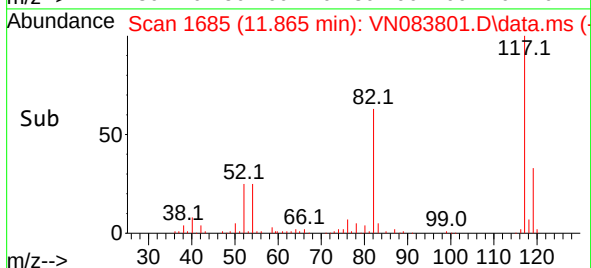
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



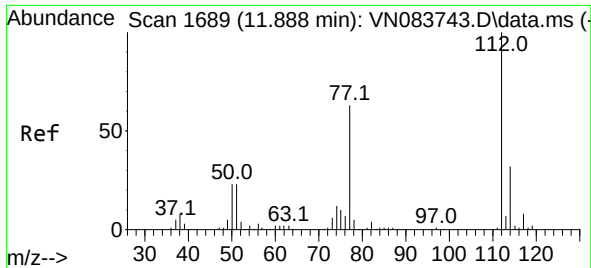
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33



Tgt Ion:117 Resp: 263856  
Ion Ratio Lower Upper  
117 100  
82 63.1 47.4 71.0  
119 33.2 26.3 39.5







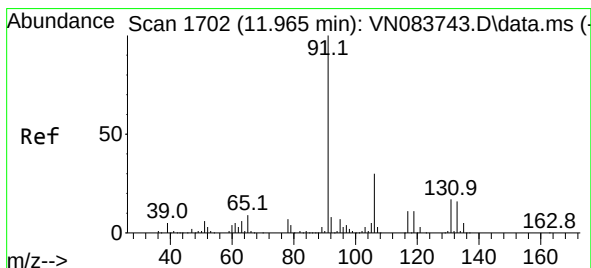
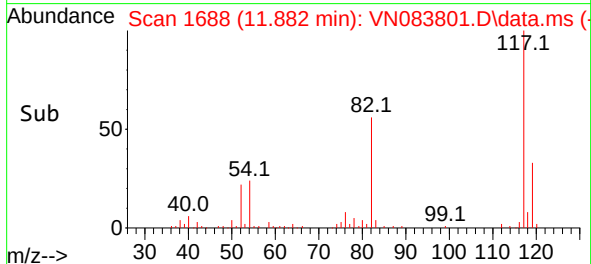
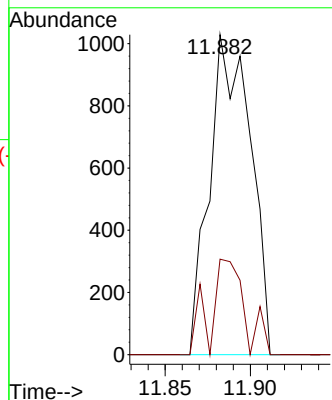
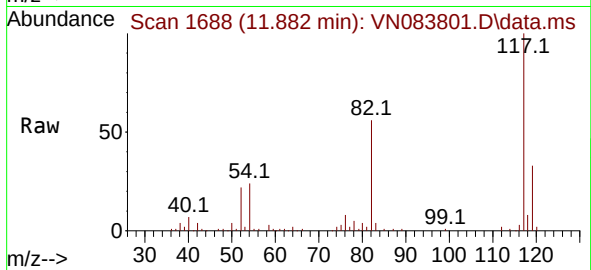
#65  
Chlorobenzene  
Concen: 0.294 ug/l  
RT: 11.882 min Scan# 1172  
Delta R.T. -0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
830

Tgt Ion: 112 Resp: 172  
Ion Ratio Lower Upper  
112 100  
114 29.8 25.7 38.5

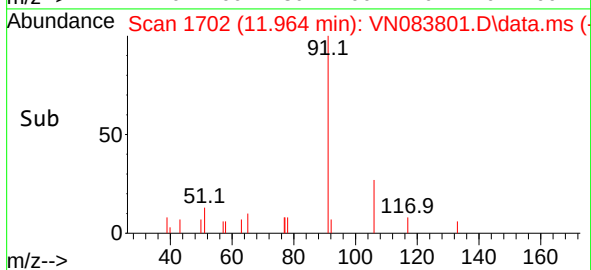
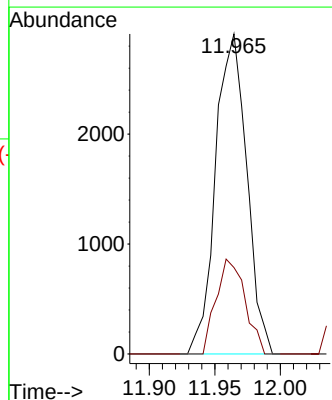
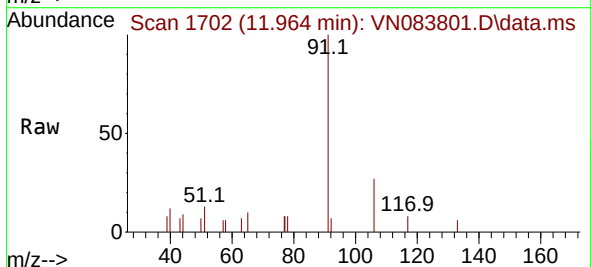
Manual Integrations  
APPROVED

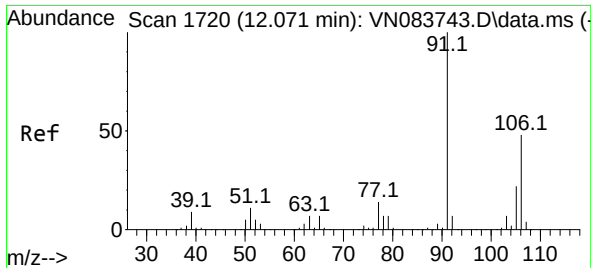
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



#67  
Ethyl Benzene  
Concen: 0.461 ug/l  
RT: 11.964 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

Tgt Ion: 91 Resp: 4806  
Ion Ratio Lower Upper  
91 100  
106 27.0 24.3 36.5





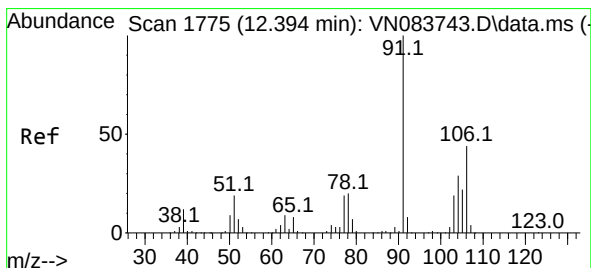
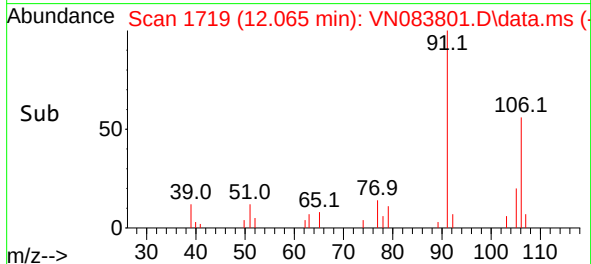
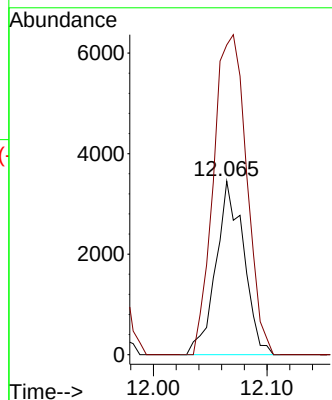
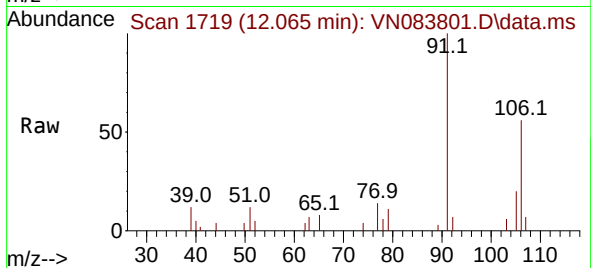
#68  
m/p-Xylenes  
Concen: 1.516 ug/l  
RT: 12.065 min Scan# 1719  
Delta R.T. -0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
830

Tgt Ion:106 Resp: 586  
Ion Ratio Lower Upper  
106 100  
91 219.5 169.2 253.8

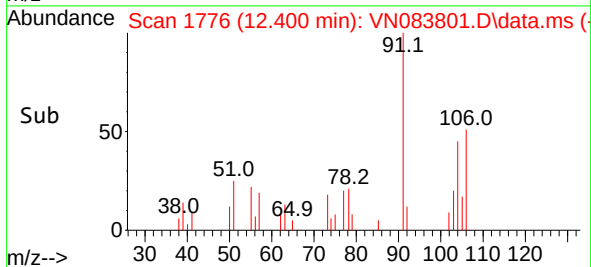
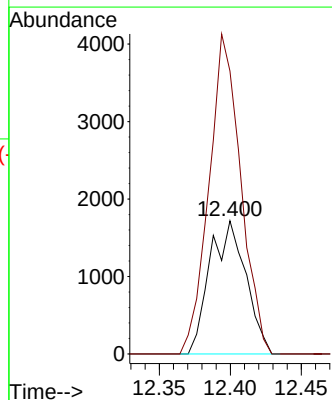
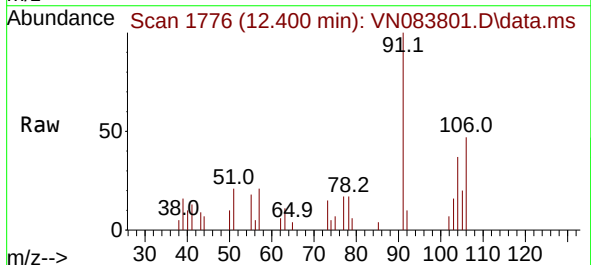
Manual Integrations  
APPROVED

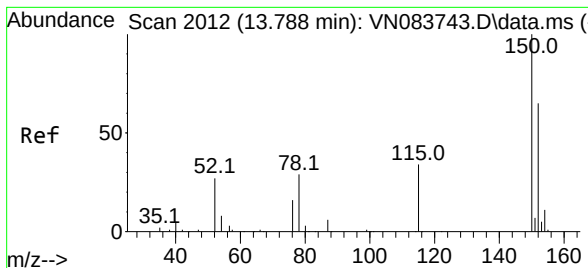
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024



#69  
o-Xylene  
Concen: 0.810 ug/l  
RT: 12.400 min Scan# 1776  
Delta R.T. 0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

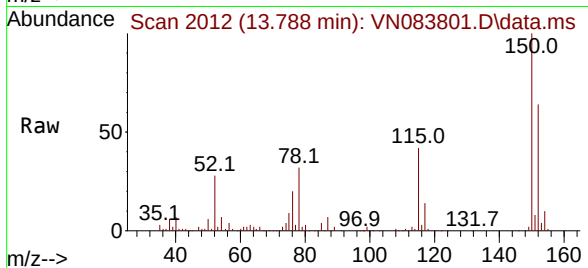
Tgt Ion:106 Resp: 3031  
Ion Ratio Lower Upper  
106 100  
91 212.2 112.9 338.6





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 2012  
 Delta R.T. -0.000 min  
 Lab File: VN083801.D  
 Acq: 11 Sep 2024 17:33

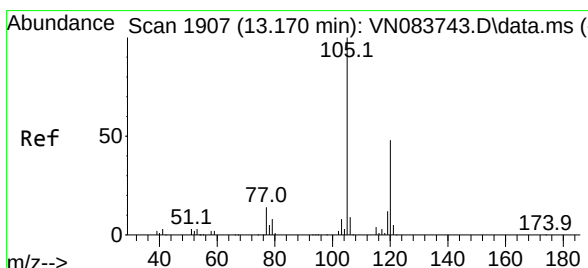
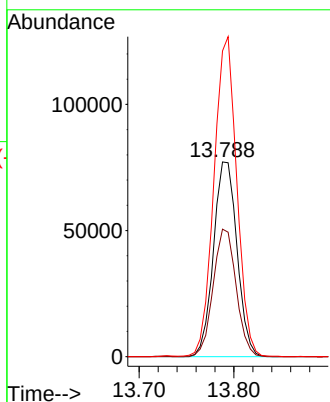
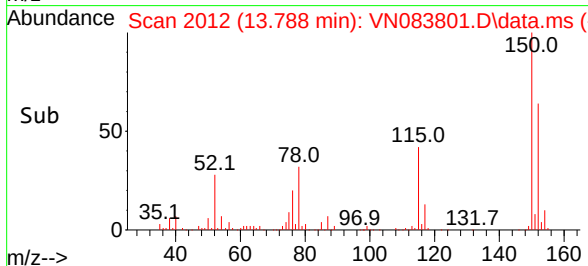
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 830



Tgt Ion:152 Resp: 13338  
 Ion Ratio Lower Upper  
 152 100  
 115 63.9 32.2 96.6  
 150 159.4 0.0 348.6

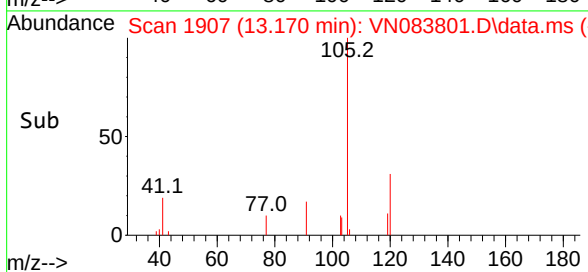
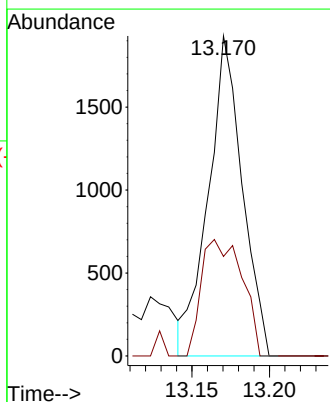
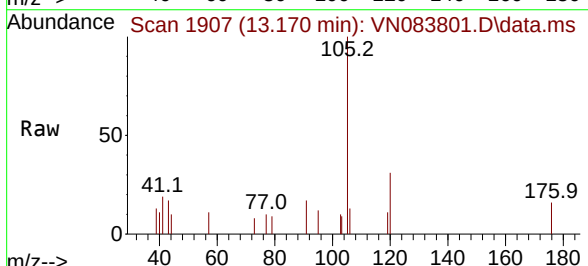
Manual Integrations  
 APPROVED

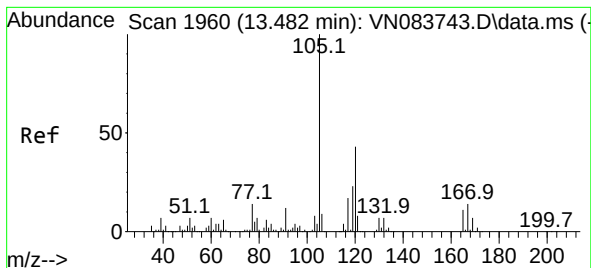
Reviewed By :John Carlone 09/12/2024  
 Supervised By :Mahesh Dadoda 09/12/2024



#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.338 ug/l  
 RT: 13.170 min Scan# 1907  
 Delta R.T. -0.000 min  
 Lab File: VN083801.D  
 Acq: 11 Sep 2024 17:33

Tgt Ion:105 Resp: 2937  
 Ion Ratio Lower Upper  
 105 100  
 120 43.9 23.4 70.3





#84

1,2,4-Trimethylbenzene

Concen: 0.793 ug/l

RT: 13.476 min Scan# 1960

Delta R.T. -0.006 min

Lab File: VN083801.D

Acq: 11 Sep 2024 17:33

Instrument :

MSVOA\_N

ClientSampleId :

830

Tgt Ion:105 Resp: 6934

Ion Ratio Lower Upper

105 100

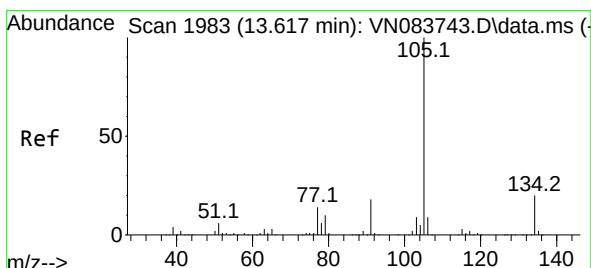
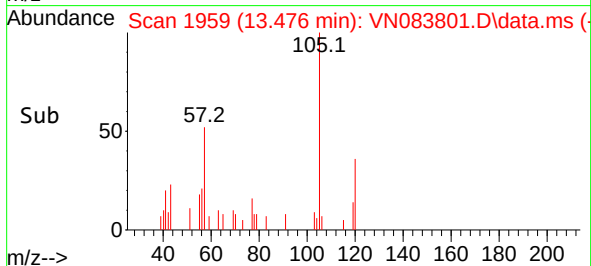
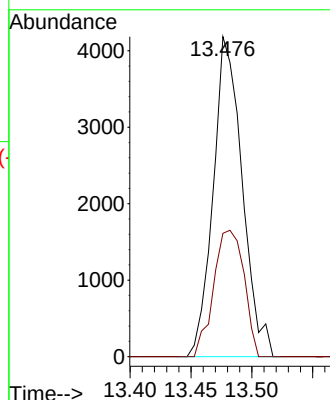
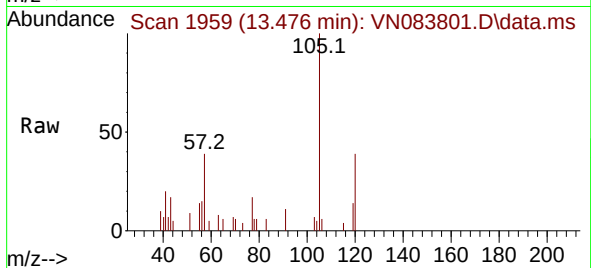
120 41.3 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#85

sec-Butylbenzene

Concen: 0.283 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN083801.D

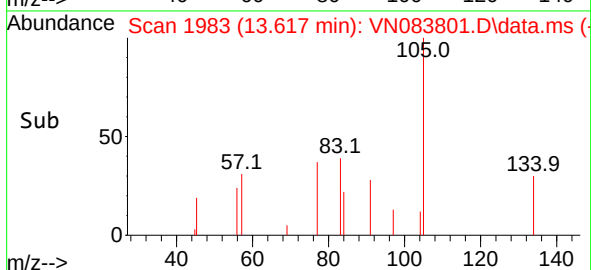
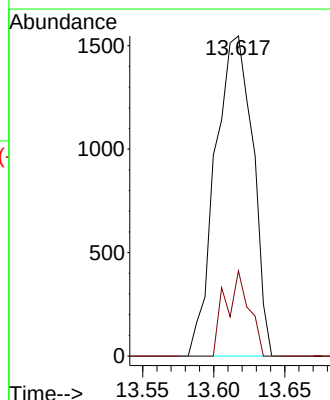
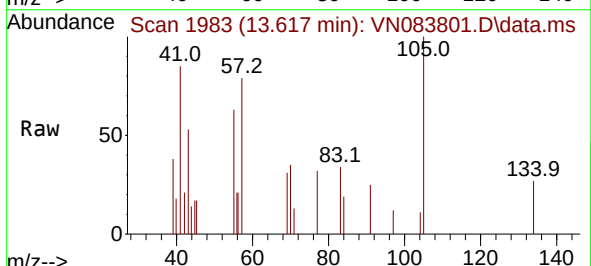
Acq: 11 Sep 2024 17:33

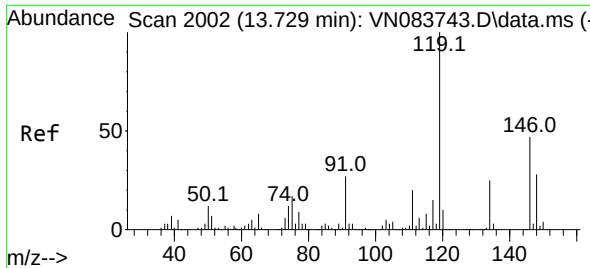
Tgt Ion:105 Resp: 2852

Ion Ratio Lower Upper

105 100

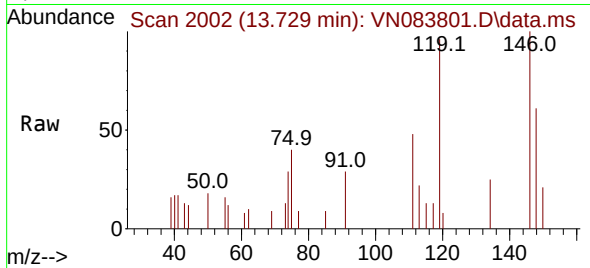
134 16.9 9.7 29.1





#86  
p-Isopropyltoluene  
Concen: 0.318 ug/l  
RT: 13.729 min Scan# 2002  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

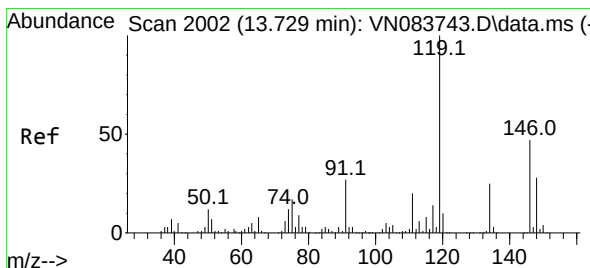
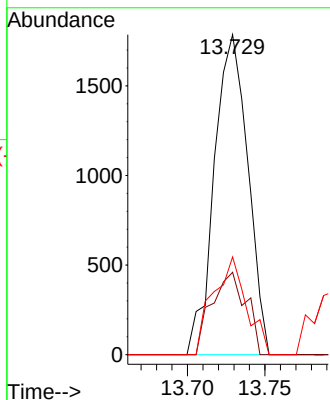
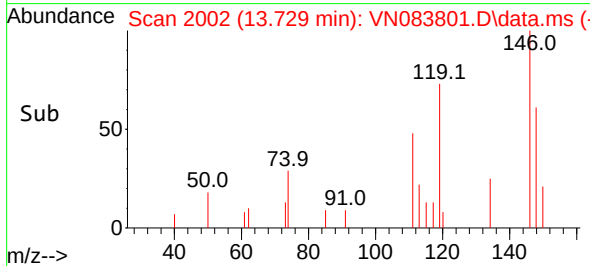
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



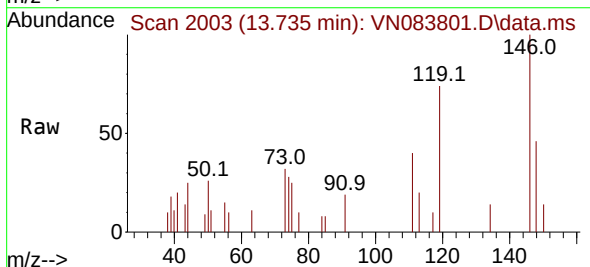
Tgt Ion:119 Resp: 269  
Ion Ratio Lower Upper  
119 100  
134 26.3 12.8 38.3  
91 30.2 12.9 38.7

Manual Integrations  
APPROVED

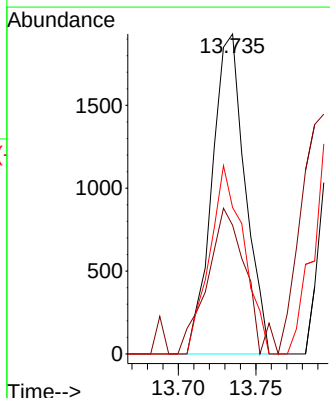
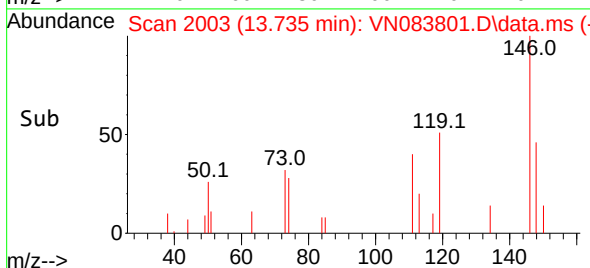
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024

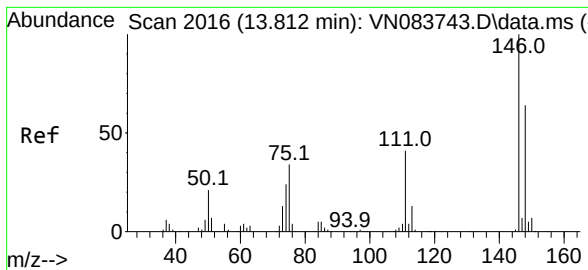


#87  
1,3-Dichlorobenzene  
Concen: 0.612 ug/l  
RT: 13.735 min Scan# 2003  
Delta R.T. 0.006 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33



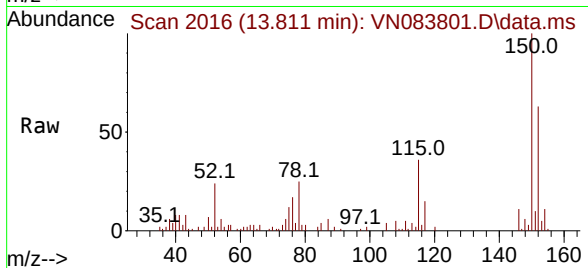
Tgt Ion:146 Resp: 2868  
Ion Ratio Lower Upper  
146 100  
111 52.4 21.7 65.1  
148 60.6 31.7 95.1





#88  
1,4-Dichlorobenzene  
Concen: 0.866 ug/l m  
RT: 13.811 min Scan# 2016  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33

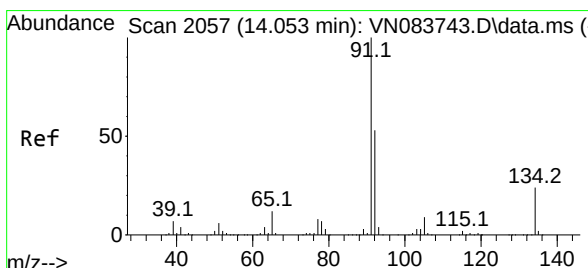
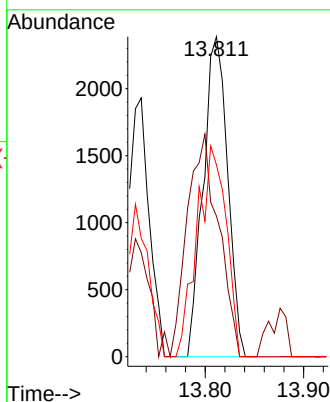
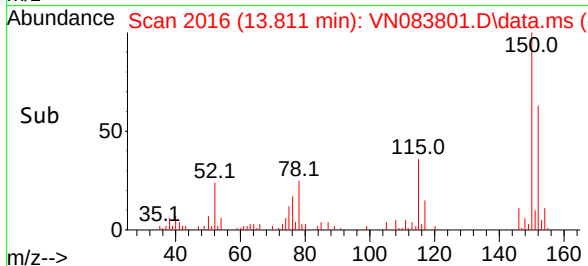
Instrument :  
MSVOA\_N  
ClientSampleId :  
830



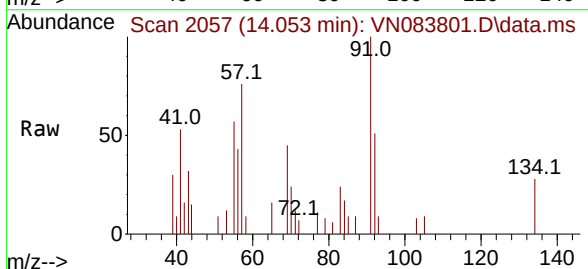
Tgt Ion:146 Resp: 4109  
Ion Ratio Lower Upper  
146 100  
111 36.6 21.3 64.0  
148 42.3 32.0 96.2

Manual Integrations  
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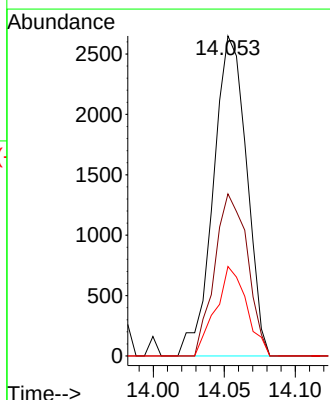
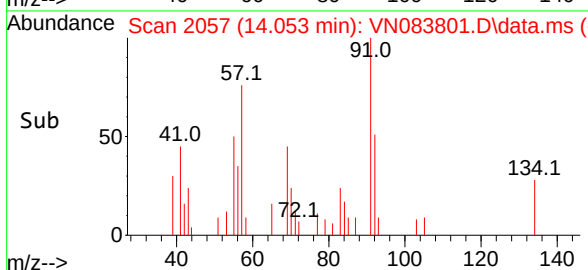
Reviewed By :John Carlone 09/12/2024  
Supervised By :Mahesh Dadoda 09/12/2024

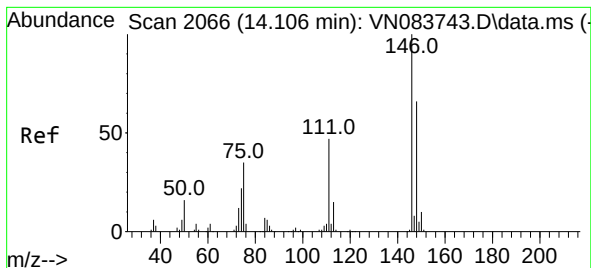


#89  
n-Butylbenzene  
Concen: 0.568 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. -0.000 min  
Lab File: VN083801.D  
Acq: 11 Sep 2024 17:33



Tgt Ion: 91 Resp: 4314  
Ion Ratio Lower Upper  
91 100  
92 50.1 26.7 80.1  
134 26.0 12.2 36.4





#91

1,2-Dichlorobenzene

Concen: 0.523 ug/l

RT: 14.111 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN083801.D

Acq: 11 Sep 2024 17:33

Instrument :

MSVOA\_N

ClientSampleId :

830

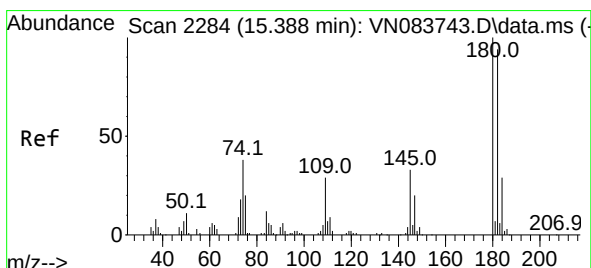
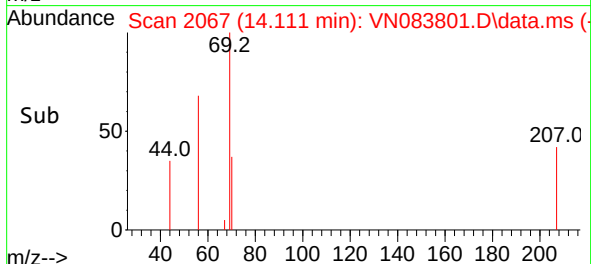
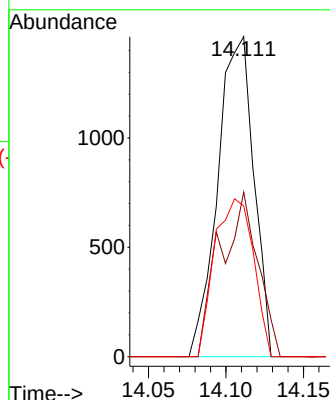
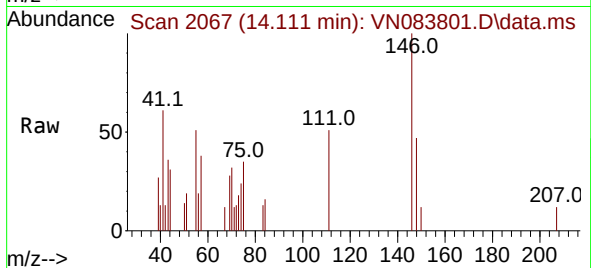
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 236  |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 54.0  | 22.8  | 68.3 |
| 148       | 53.2  | 32.1  | 96.5 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/12/2024

Supervised By :Mahesh Dadoda 09/12/2024



#93

1,2,4-Trichlorobenzene

Concen: 1.087 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN083801.D

Acq: 11 Sep 2024 17:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 2638  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 88.9  | 48.1  | 144.3 |
| 145       | 46.9  | 16.9  | 50.7  |

