

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032024\  
 Data File : VN081504.D  
 Acq On : 20 Mar 2024 19:22  
 Operator : JC\MD  
 Sample : P1784-01DL 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-5BDL

Manual Integrations  
 APPROVED

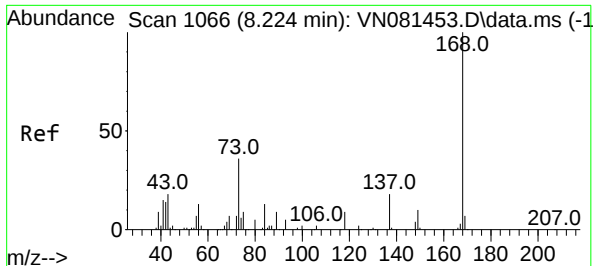
Reviewed By :John Carlone 03/21/2024  
 Supervised By :Mahesh Dadoda 03/21/2024

Quant Time: Mar 21 01:25:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 06:00:00 2024  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.224          | 168  | 514906     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.100          | 114  | 860874     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.865         | 117  | 749415     | 50.000   | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4  | 13.794         | 152  | 324576     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.577          | 65   | 305147     | 46.471   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 92.940%  |        |          |
| 35) Dibromofluoromethane    | 8.165          | 113  | 259859     | 47.830   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 95.660%  |        |          |
| 50) Toluene-d8              | 10.571         | 98   | 1007840    | 51.317   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 102.640% |        |          |
| 62) 4-Bromofluorobenzene    | 12.853         | 95   | 332211     | 48.006   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 64 - 133 |      | Recovery = | 96.020%  |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 31) Cyclohexane             | 8.259          | 56   | 144984     | 13.568   | ug/l # | 76       |
| 39) Methylcyclohexane       | 9.600          | 83   | 86572m     | 8.479    | ug/l   |          |
| 40) Benzene                 | 8.612          | 78   | 14330      | 0.536    | ug/l   | 99       |
| 52) Toluene                 | 10.629         | 92   | 189902     | 11.177   | ug/l   | 99       |
| 67) Ethyl Benzene           | 11.965         | 91   | 1429666    | 46.457   | ug/l   | 97       |
| 68) m/p-Xylenes             | 12.070         | 106  | 934997     | 81.045   | ug/l   | 95       |
| 69) o-Xylene                | 12.400         | 106  | 300643     | 26.545   | ug/l   | 93       |
| 73) Isopropylbenzene        | 12.700         | 105  | 117052     | 4.231    | ug/l   | 99       |
| 78) n-propylbenzene         | 13.035         | 91   | 562835     | 17.226   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene  | 13.176         | 105  | 74878      | 3.277    | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene  | 13.482         | 105  | 1960751    | 85.370   | ug/l   | 94       |
| 85) sec-Butylbenzene        | 13.623         | 105  | 40118m     | 1.424    | ug/l   |          |
| 86) p-Isopropyltoluene      | 13.729         | 119  | 21219      | 0.921    | ug/l # | 69       |
| 89) n-Butylbenzene          | 14.053         | 91   | 23152m     | 1.134    | ug/l   |          |
| -----                       |                |      |            |          |        |          |

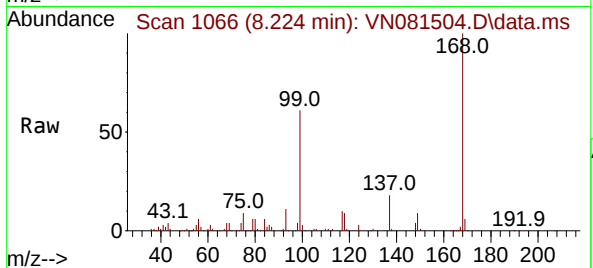
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

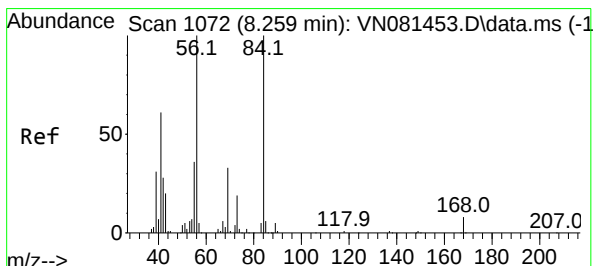
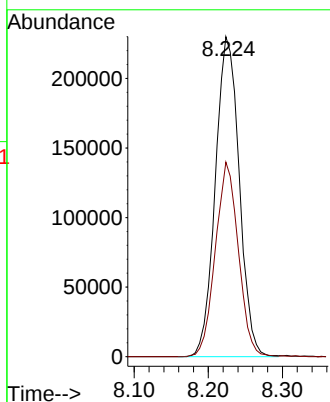
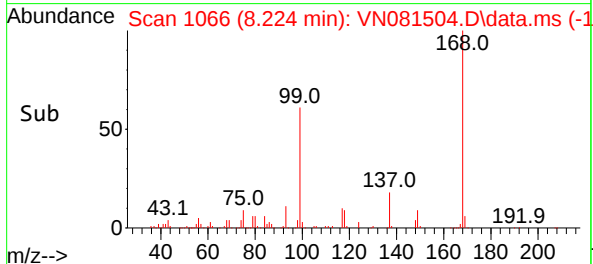
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL



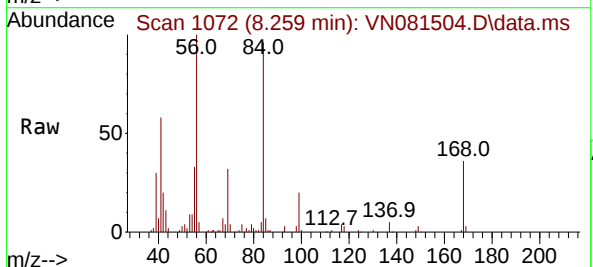
Tgt Ion:168 Resp: 514900  
Ion Ratio Lower Upper  
168 100  
99 60.8 59.9 89.9

Manual Integrations  
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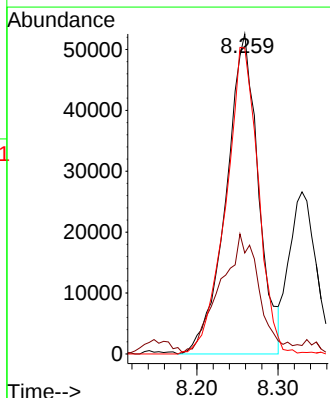
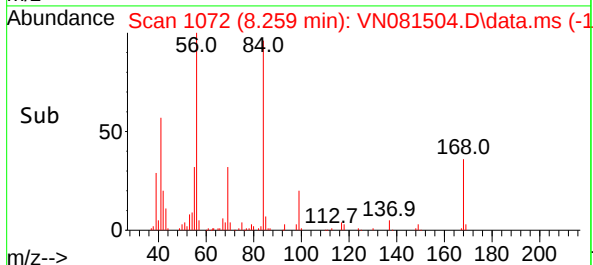
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024

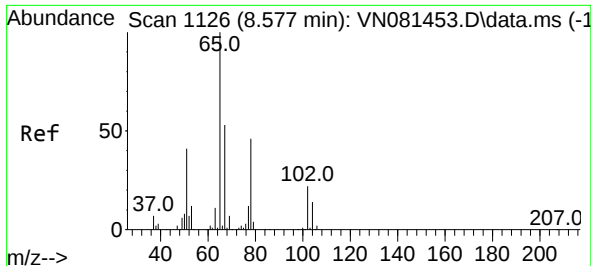


#31  
Cyclohexane  
Concen: 13.568 ug/l  
RT: 8.259 min Scan# 1072  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22



Tgt Ion: 56 Resp: 144984  
Ion Ratio Lower Upper  
56 100  
69 29.6 20.1 30.1  
84 95.6 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 46.471 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081504.D

Acq: 20 Mar 2024 19:22

Instrument :

MSVOA\_N

ClientSampleId :

MW-5BDL

Tgt Ion: 65 Resp: 30514

Ion Ratio Lower Upper

65 100

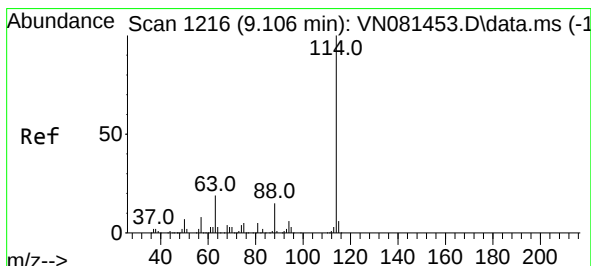
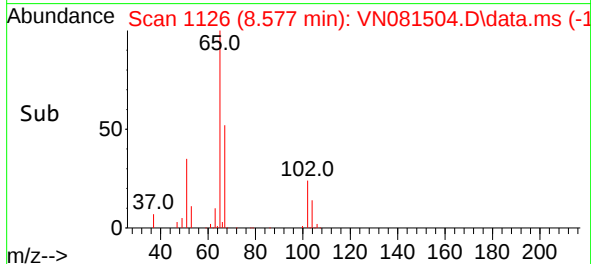
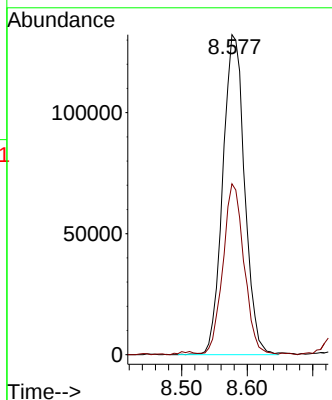
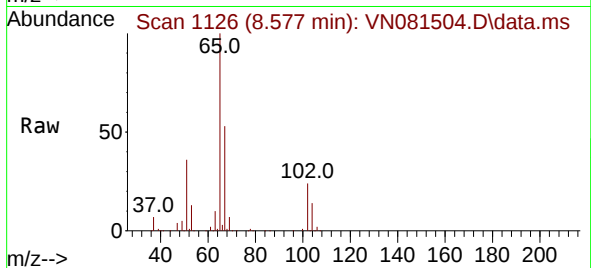
67 51.4 0.0 102.4

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081504.D

Acq: 20 Mar 2024 19:22

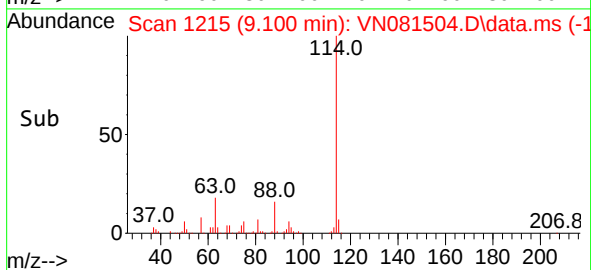
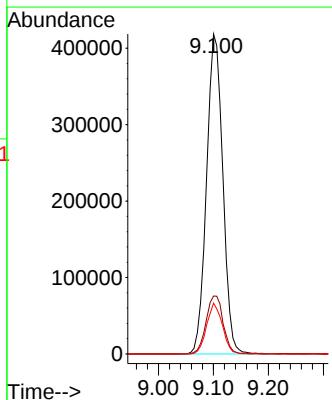
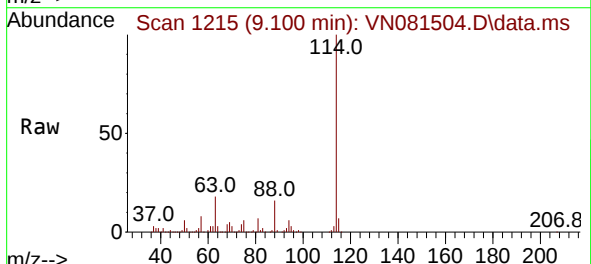
Tgt Ion:114 Resp: 860874

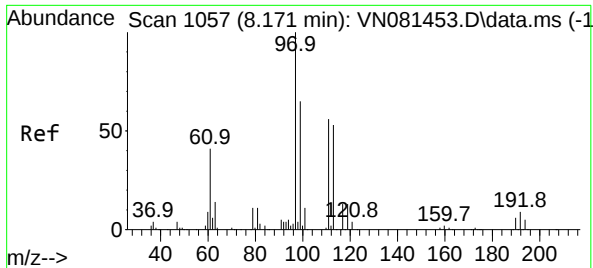
Ion Ratio Lower Upper

114 100

63 18.1 0.0 48.0

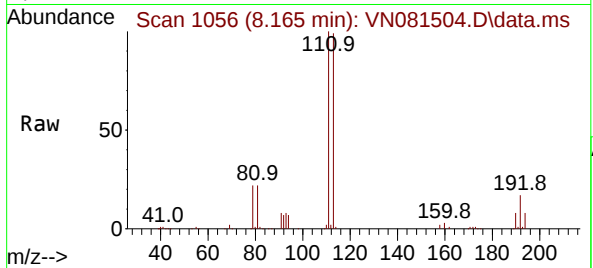
88 15.9 0.0 34.8





#35  
Dibromofluoromethane  
Concen: 47.830 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.006 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

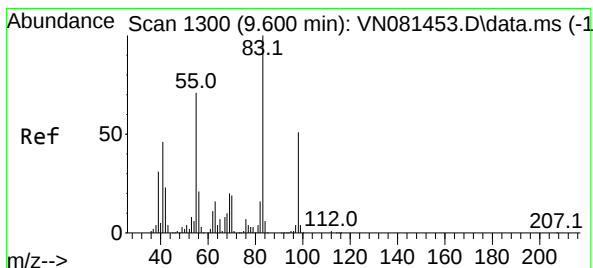
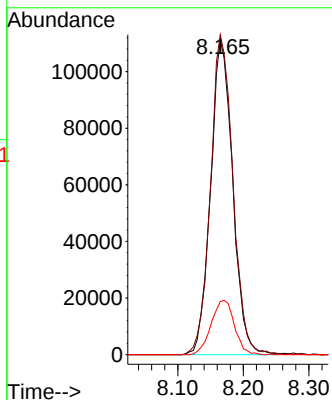
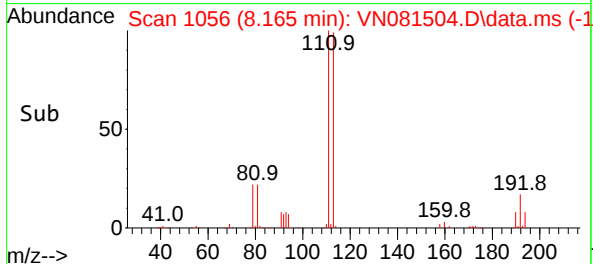
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL



Tgt Ion: 113 Resp: 25985  
Ion Ratio Lower Upper  
113 100  
111 103.0 82.2 123.4  
192 18.1 12.5 18.7

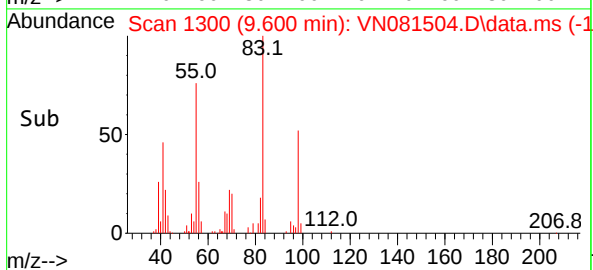
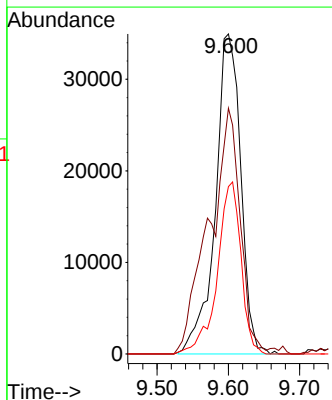
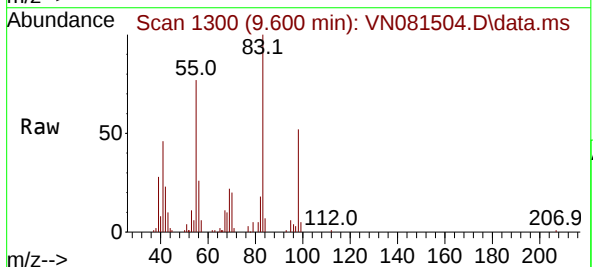
Manual Integrations  
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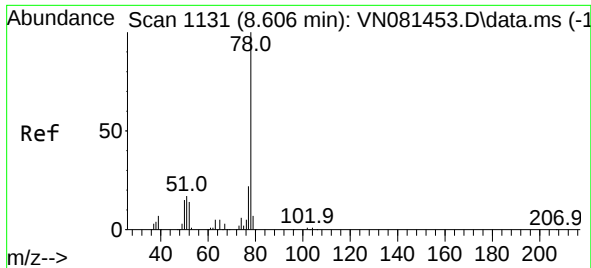
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024



#39  
Methylcyclohexane  
Concen: 8.479 ug/l m  
RT: 9.600 min Scan# 1300  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

Tgt Ion: 83 Resp: 86572  
Ion Ratio Lower Upper  
83 100  
55 76.8 65.7 98.5  
98 52.3 33.8 50.6#





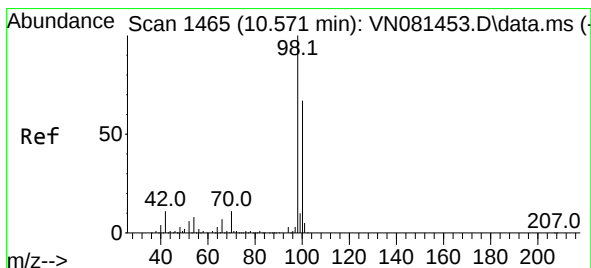
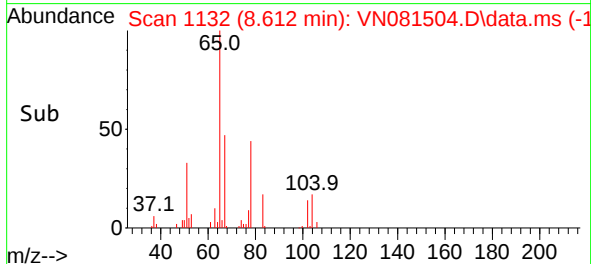
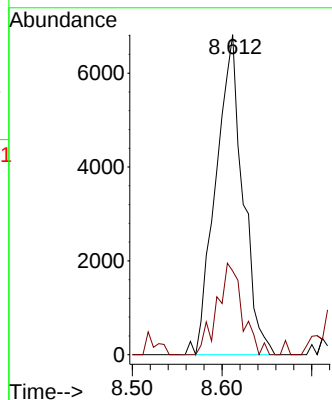
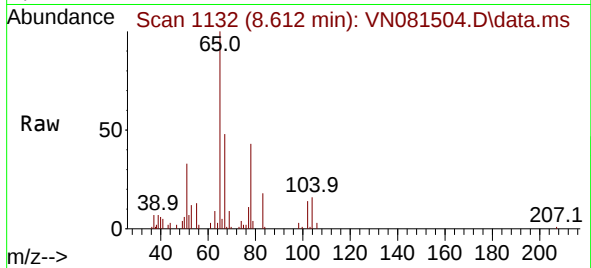
#40  
Benzene  
Concen: 0.536 ug/l  
RT: 8.612 min Scan# 1132  
Delta R.T. 0.006 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL

Tgt Ion: 78 Resp: 14330  
Ion Ratio Lower Upper  
78 100  
77 26.1 20.4 30.6

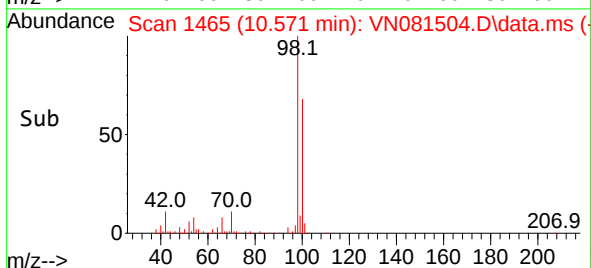
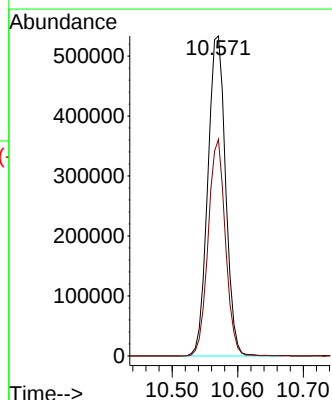
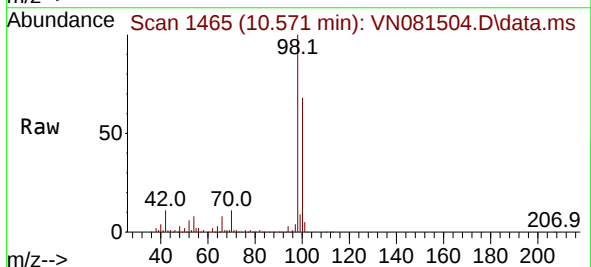
Manual Integrations  
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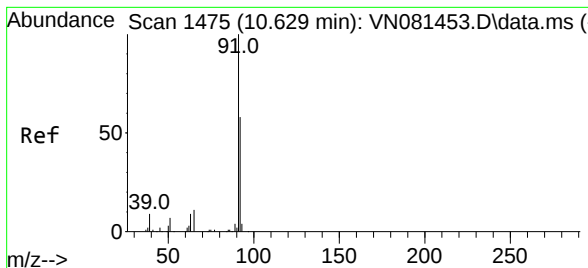
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024



#50  
Toluene-d8  
Concen: 51.317 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

Tgt Ion: 98 Resp: 1007840  
Ion Ratio Lower Upper  
98 100  
100 65.4 51.4 77.0





#52

Toluene

Concen: 11.177 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN081504.D

Acq: 20 Mar 2024 19:22

Instrument :

MSVOA\_N

ClientSampleId :

MW-5BDL

Tgt Ion: 92 Resp: 18990

Ion Ratio Lower Upper

92 100

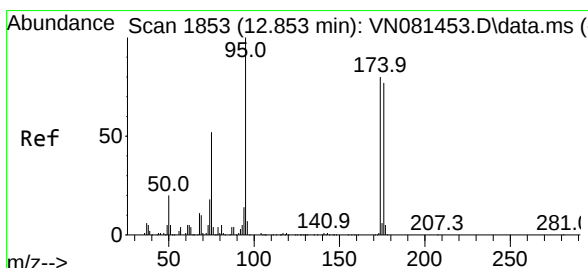
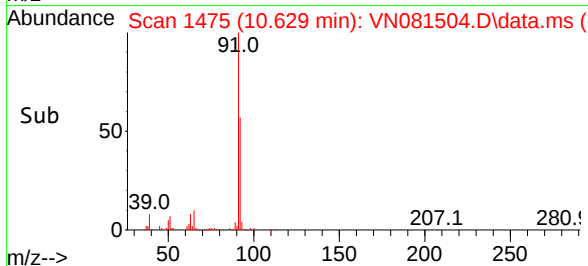
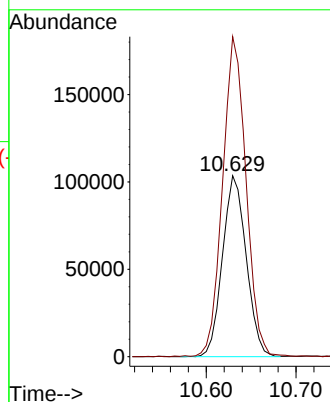
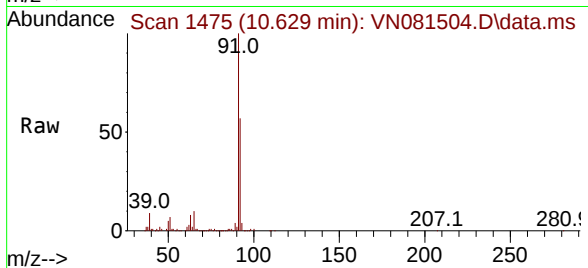
91 175.3 139.4 209.0

Manual Integrations

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Reviewed By :John Carlone 03/21/2024

Supervised By :Mahesh Dadoda 03/21/2024



#62

4-Bromofluorobenzene

Concen: 48.006 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN081504.D

Acq: 20 Mar 2024 19:22

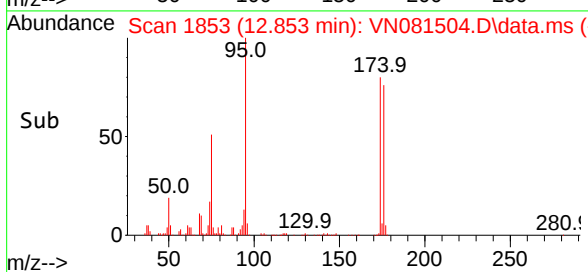
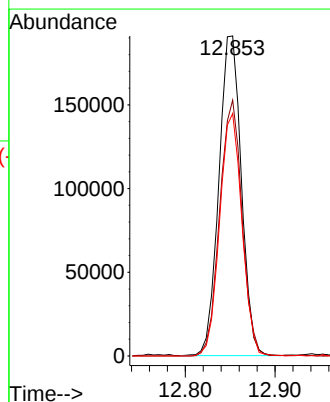
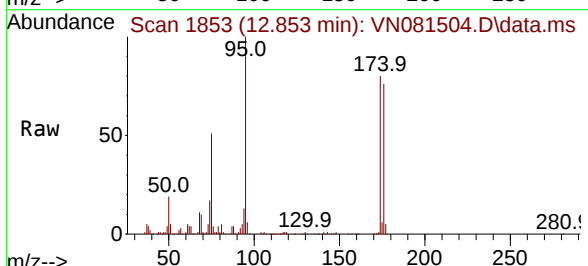
Tgt Ion: 95 Resp: 332211

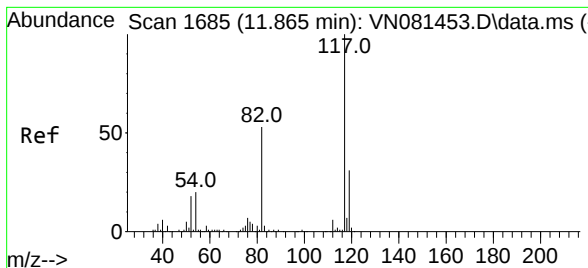
Ion Ratio Lower Upper

95 100

174 79.4 0.0 120.4

176 75.1 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081504.D

Acq: 20 Mar 2024 19:22

Instrument :

MSVOA\_N

ClientSampleId :

MW-5BDL

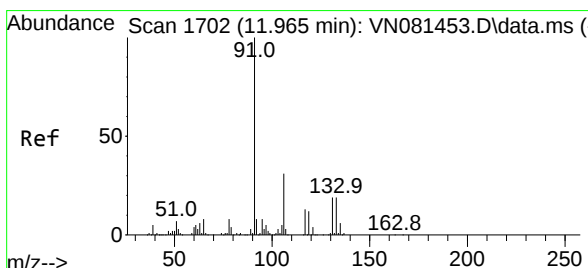
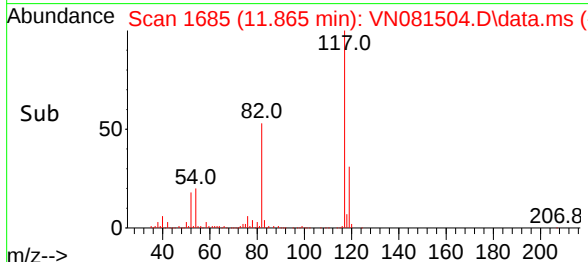
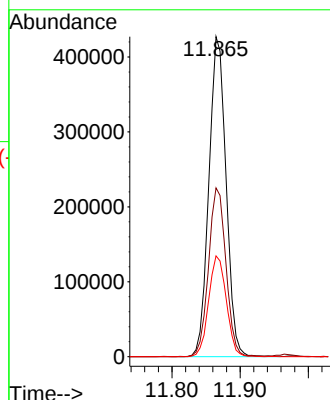
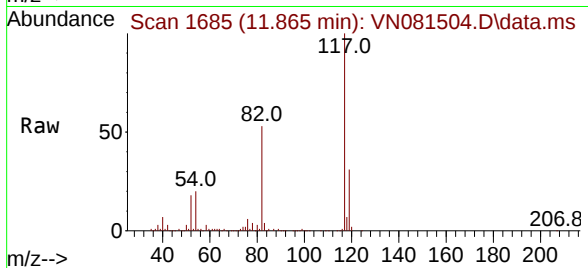
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 74941 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 52.7  | 52.7  | 79.1  |
| 119       | 31.5  | 25.3  | 37.9  |

Manual Integrations

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Reviewed By :John Carlone 03/21/2024

Supervised By :Mahesh Dadoda 03/21/2024



#67

Ethyl Benzene

Concen: 46.457 ug/l

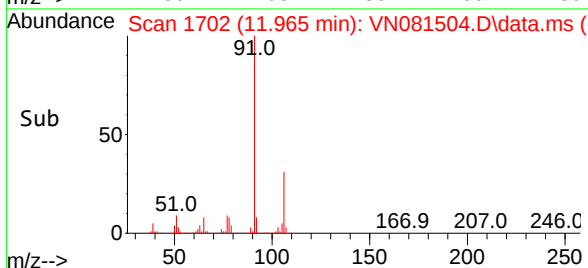
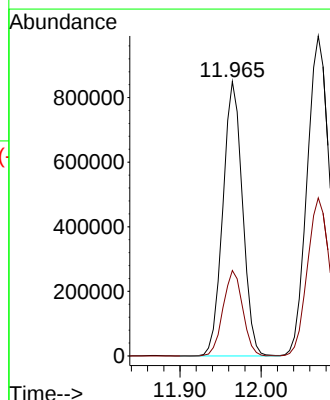
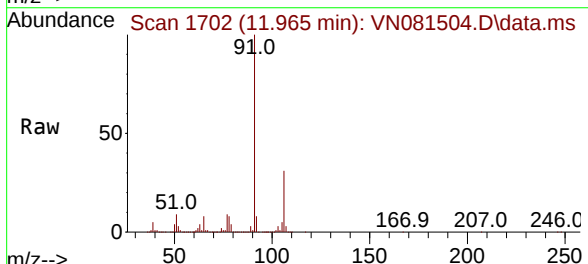
RT: 11.965 min Scan# 1702

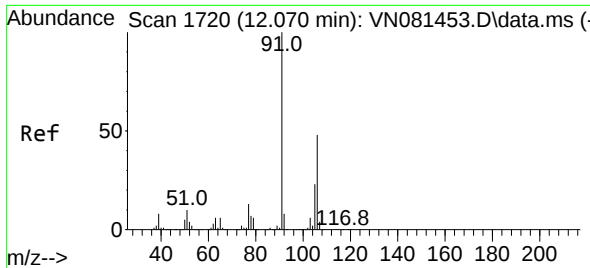
Delta R.T. 0.000 min

Lab File: VN081504.D

Acq: 20 Mar 2024 19:22

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1429666 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 106       | 31.1  | 23.8  | 35.6    |





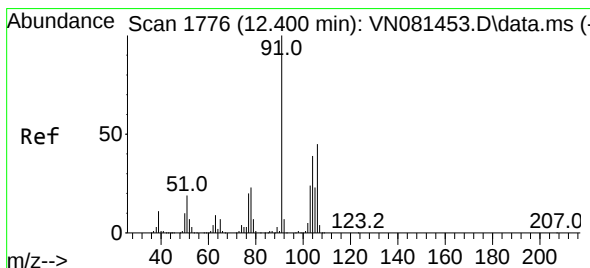
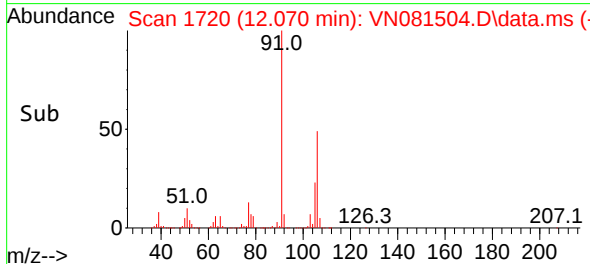
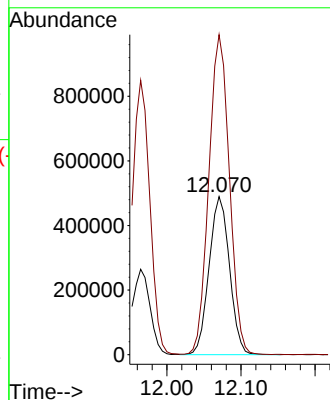
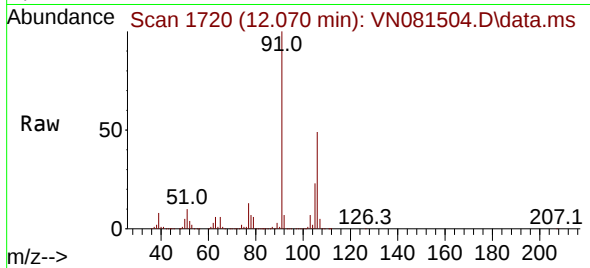
#68  
m/p-Xylenes  
Concen: 81.045 ug/l  
RT: 12.070 min Scan# 1720  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL

Tgt Ion:106 Resp: 93499  
Ion Ratio Lower Upper  
106 100  
91 203.9 169.0 253.6

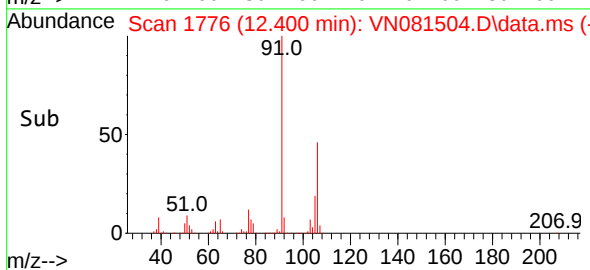
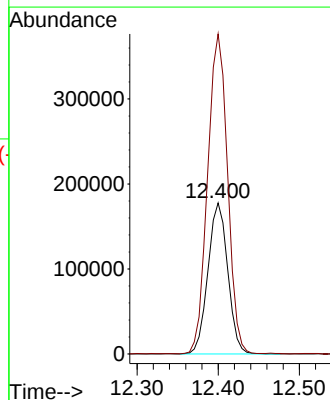
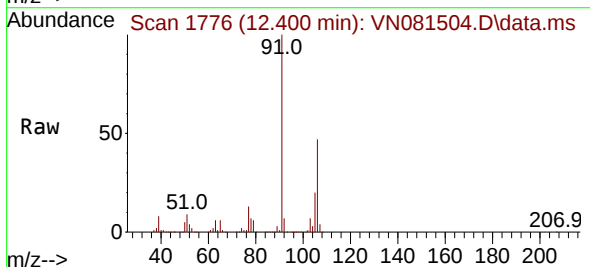
Manual Integrations  
APPROVED

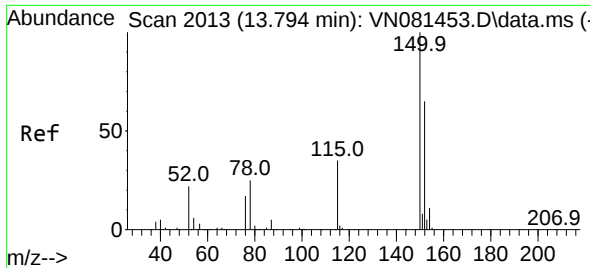
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024



#69  
o-Xylene  
Concen: 26.545 ug/l  
RT: 12.400 min Scan# 1776  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

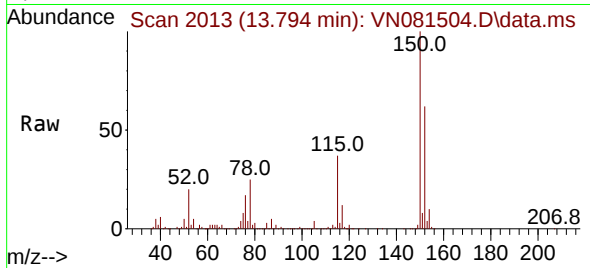
Tgt Ion:106 Resp: 300643  
Ion Ratio Lower Upper  
106 100  
91 213.5 112.1 336.3





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

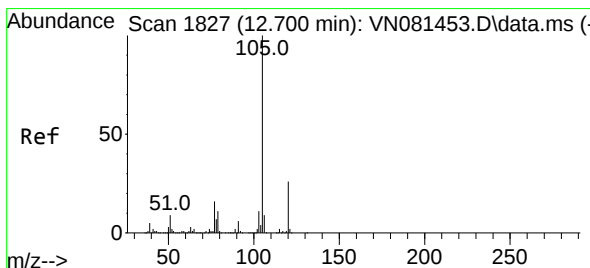
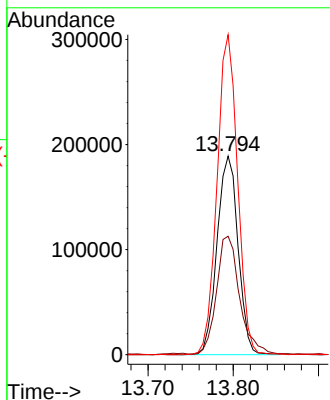
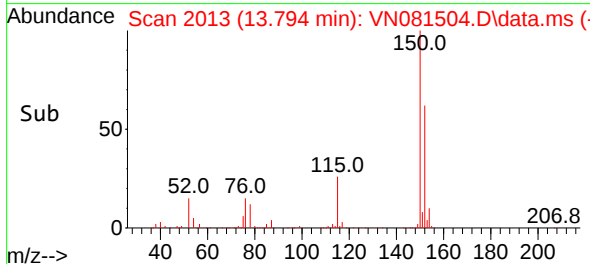
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL



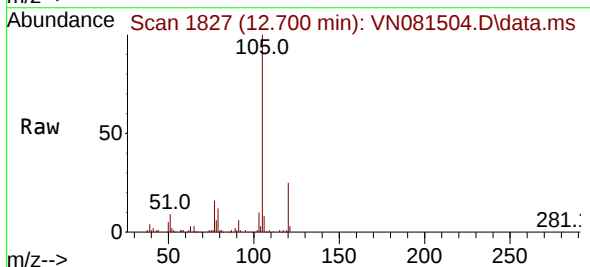
Tgt Ion:152 Resp: 324570  
Ion Ratio Lower Upper  
152 100  
115 65.4 32.3 96.8  
150 157.0 0.0 339.8

Manual Integrations  
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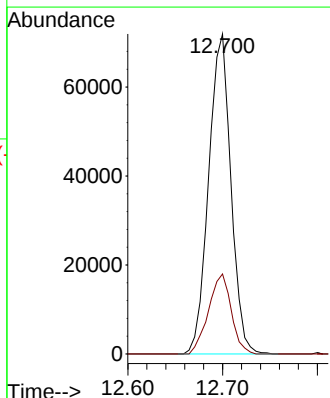
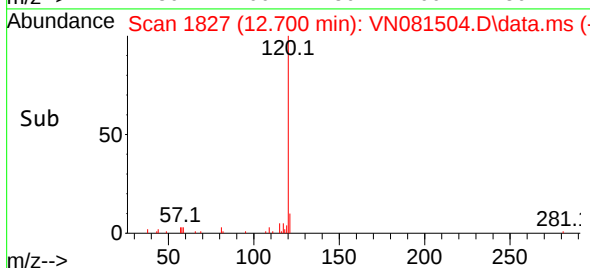
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024

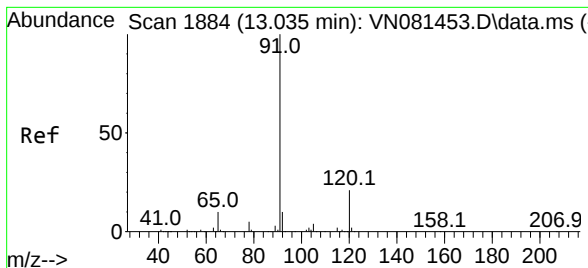


#73  
Isopropylbenzene  
Concen: 4.231 ug/l  
RT: 12.700 min Scan# 1827  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22



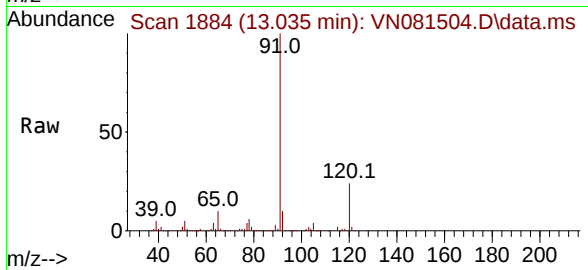
Tgt Ion:105 Resp: 117052  
Ion Ratio Lower Upper  
105 100  
120 25.6 12.6 37.6





#78  
n-propylbenzene  
Concen: 17.226 ug/l  
RT: 13.035 min Scan# 1884  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

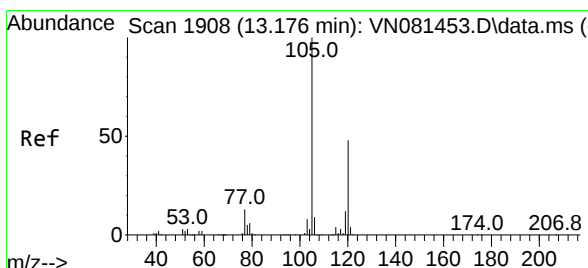
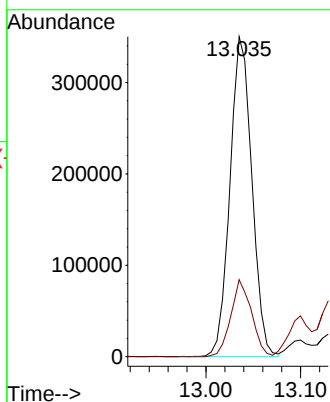
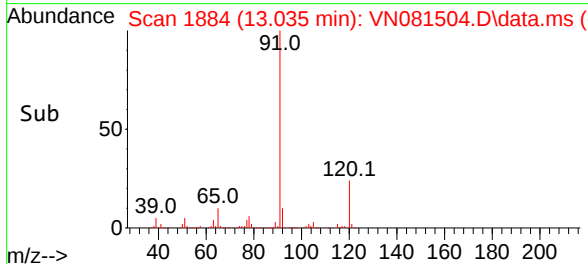
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL



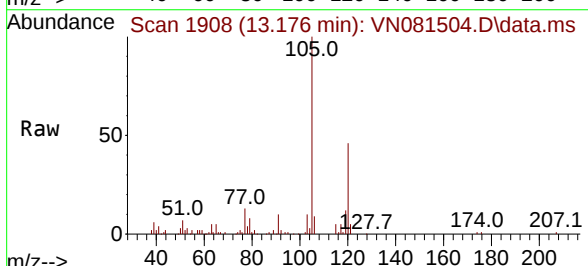
Tgt Ion: 91 Resp: 56283  
Ion Ratio Lower Upper  
91 100  
120 22.8 10.3 30.9

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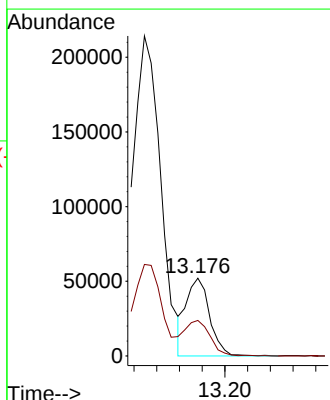
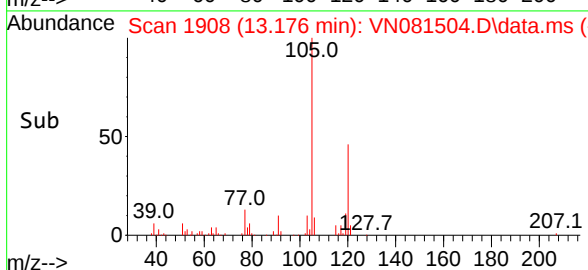
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024

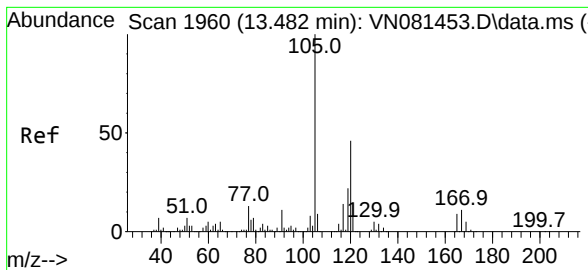


#80  
1,3,5-Trimethylbenzene  
Concen: 3.277 ug/l  
RT: 13.176 min Scan# 1908  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22



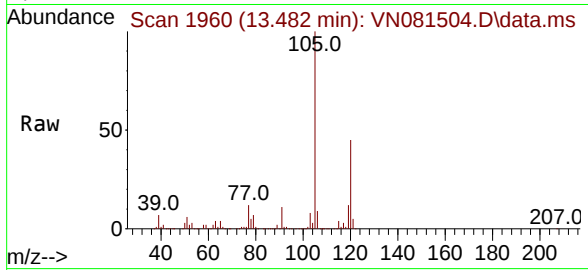
Tgt Ion:105 Resp: 74878  
Ion Ratio Lower Upper  
105 100  
120 48.7 23.0 69.0





#84  
1,2,4-Trimethylbenzene  
Concen: 85.370 ug/l  
RT: 13.482 min Scan# 1960  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

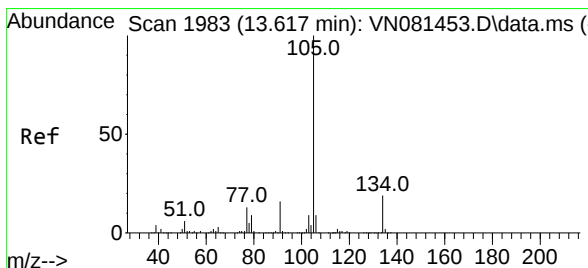
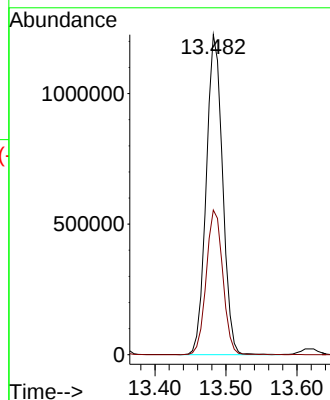
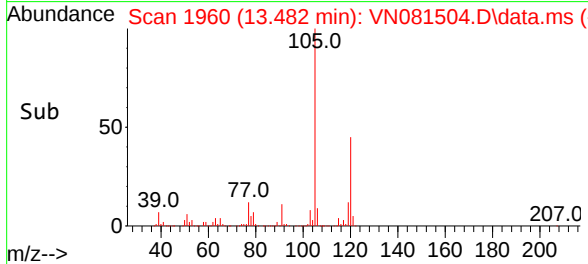
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL



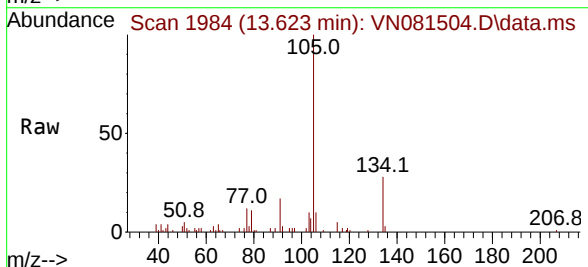
Tgt Ion:105 Resp: 196075  
Ion Ratio Lower Upper  
105 100  
120 45.9 20.9 62.7

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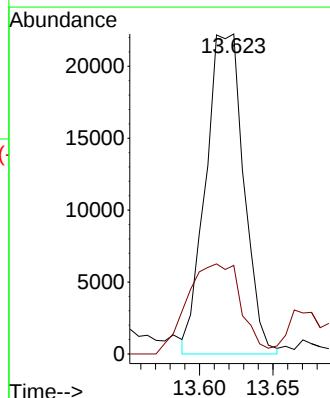
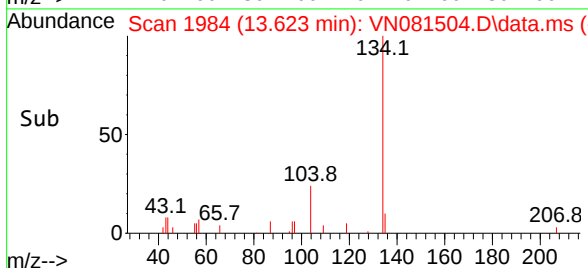
Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024

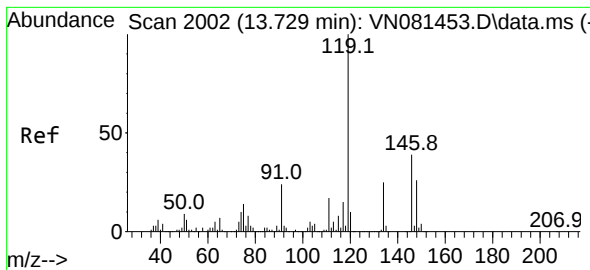


#85  
sec-Butylbenzene  
Concen: 1.424 ug/l m  
RT: 13.623 min Scan# 1984  
Delta R.T. 0.006 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22



Tgt Ion:105 Resp: 40118  
Ion Ratio Lower Upper  
105 100  
134 0.0 8.6 25.8#





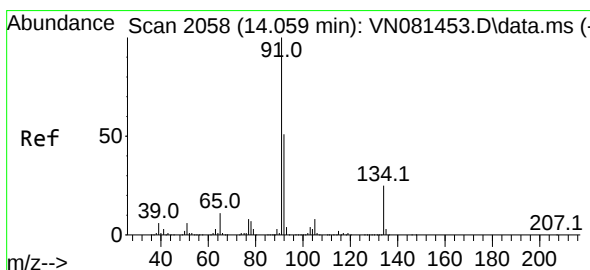
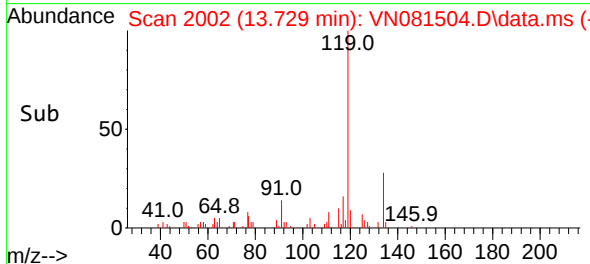
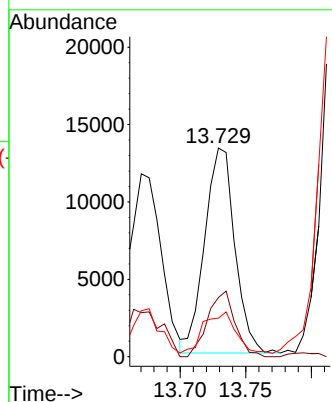
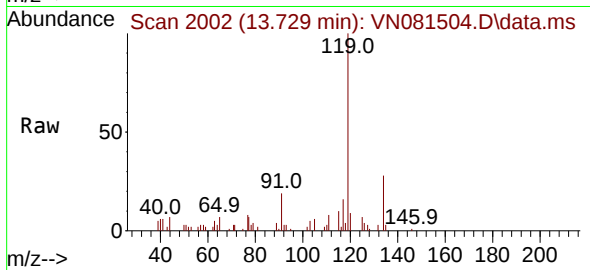
#86  
p-Isopropyltoluene  
Concen: 0.921 ug/l  
RT: 13.729 min Scan# 2002  
Delta R.T. 0.000 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5BDL

Tgt Ion:119 Resp: 21219  
Ion Ratio Lower Upper  
119 100  
134 28.9 12.4 37.2  
91 0.0 13.5 40.4

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/21/2024  
Supervised By :Mahesh Dadoda 03/21/2024



#89  
n-Butylbenzene  
Concen: 1.134 ug/l m  
RT: 14.053 min Scan# 2057  
Delta R.T. -0.006 min  
Lab File: VN081504.D  
Acq: 20 Mar 2024 19:22

Tgt Ion: 91 Resp: 23152  
Ion Ratio Lower Upper  
91 100  
92 64.6 26.7 80.1  
134 0.0 10.8 32.4

