

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121721\  
 Data File : VN070168.D  
 Acq On : 17 Dec 2021 17:01  
 Operator : JC/MD  
 Sample : M5039-04  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-16

Quant Time: Dec 18 05:46:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 12/18/2021  
 Supervised By : Mahesh Dadoda 12/23/2021

| Compound                    | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                       |                |      |                     |        |        |          |
| Internal Standards          |                |      |                     |        |        |          |
| 1) Pentafluorobenzene       | 8.088          | 168  | 866318              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.968          | 114  | 1458279             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.747         | 117  | 1320951             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.675         | 152  | 506254              | 50.000 | ug/l   | 0.00     |
|                             |                |      |                     |        |        |          |
| System Monitoring Compounds |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.440          | 65   | 722082              | 53.984 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = 107.960% |        |        |          |
| 35) Dibromofluoromethane    | 8.024          | 113  | 469118              | 51.358 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = 102.720% |        |        |          |
| 50) Toluene-d8              | 10.443         | 98   | 1837879             | 50.109 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = 100.220% |        |        |          |
| 62) 4-Bromofluorobenzene    | 12.734         | 95   | 634187              | 47.728 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = 95.460%  |        |        |          |
|                             |                |      |                     |        |        |          |
| Target Compounds            |                |      |                     |        | Qvalue |          |
| 3) Chloromethane            | 2.303          | 50   | 4348                | 0.343  | ug/l # | 83       |
| 11) Tert butyl alcohol      | 5.390          | 59   | 39520               | 15.631 | ug/l # | 71       |
| 16) Acetone                 | 4.296          | 43   | 91504               | 11.372 | ug/l   | 97       |
| 17) Carbon Disulfide        | 4.535          | 76   | 8764m               | 0.411  | ug/l   |          |
| 19) Methyl tert-butyl Ether | 5.624          | 73   | 167904              | 5.233  | ug/l # | 1        |
| 31) Cyclohexane             | 8.091          | 56   | 77449               | 4.161  | ug/l # | 80       |
| 39) Methylcyclohexane       | 9.459          | 83   | 56557               | 3.425  | ug/l # | 86       |
| 40) Benzene                 | 8.461          | 78   | 105561              | 2.488  | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone    | 10.333         | 43   | 67208               | 3.388  | ug/l   | 98       |
| 52) Toluene                 | 10.508         | 92   | 23113               | 0.892  | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.846         | 91   | 461216              | 9.475  | ug/l   | 96       |
| 68) m/p-Xylenes             | 11.953         | 106  | 166290              | 9.382  | ug/l   | 91       |
| 69) o-Xylene                | 12.280         | 106  | 26013               | 1.457  | ug/l   | 95       |
| 73) Isopropylbenzene        | 12.581         | 105  | 117099              | 2.600  | ug/l   | 99       |
| 78) n-propylbenzene         | 12.921         | 91   | 407466              | 8.129  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene  | 13.061         | 105  | 47261               | 1.304  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.369         | 105  | 254478              | 7.370  | ug/l   | 97       |
| 85) sec-Butylbenzene        | 13.503         | 105  | 48500               | 1.114  | ug/l # | 68       |
| 89) n-Butylbenzene          | 13.940         | 91   | 35624m              | 1.290  | ug/l   |          |
| 95) Naphthalene             | 15.507         | 128  | 717406              | 30.671 | ug/l   | 99       |
| -----                       |                |      |                     |        |        |          |

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

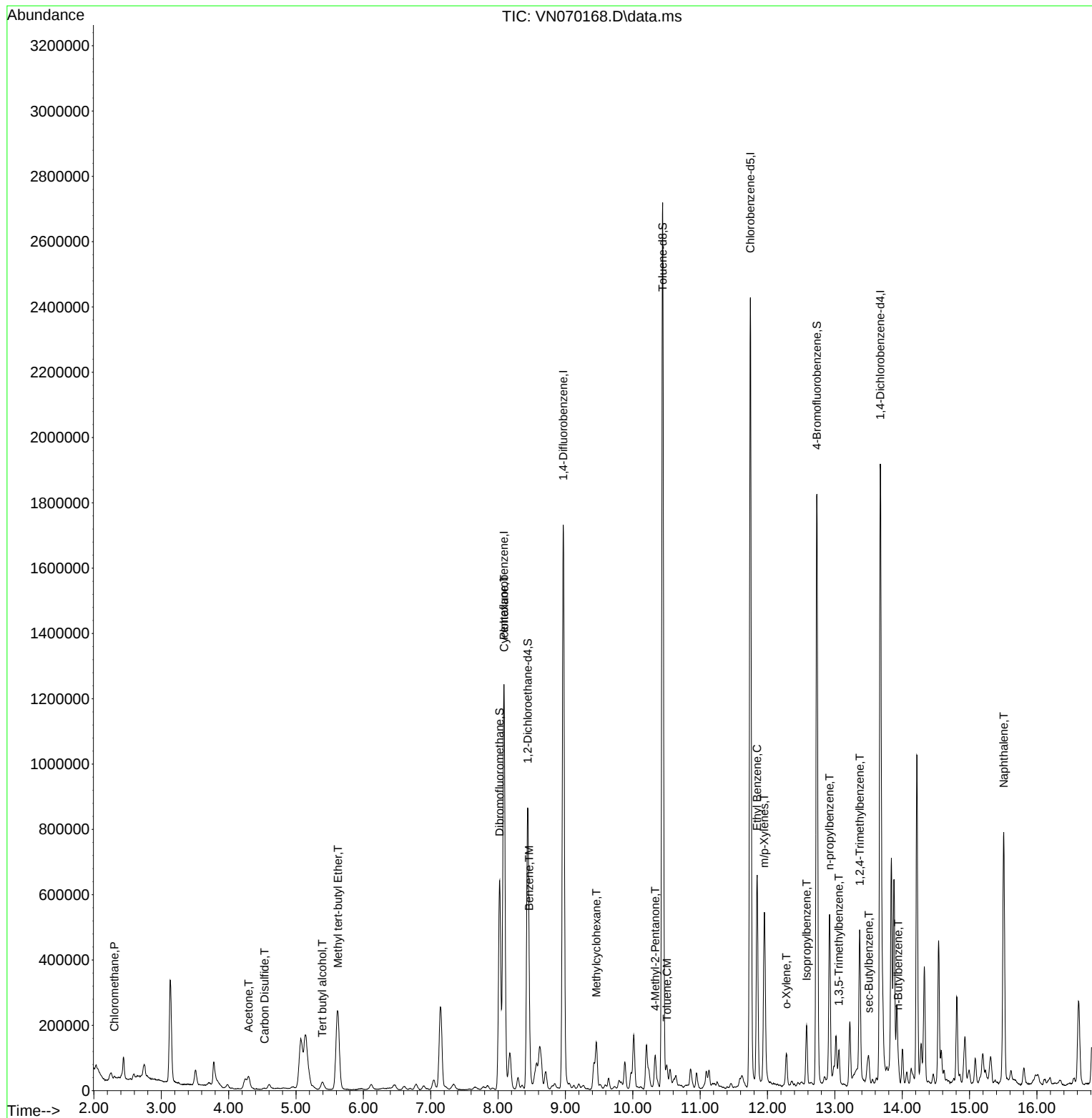
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121721\  
Data File : VN070168.D  
Acq On : 17 Dec 2021 17:01  
Operator : JC/MD  
Sample : M5039-04  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

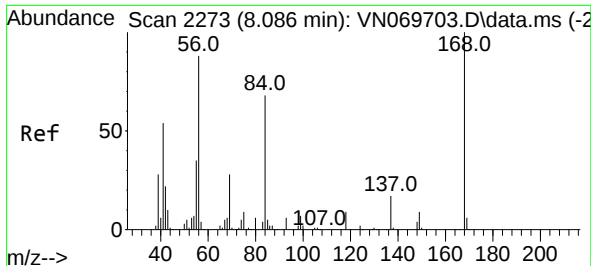
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16

Quant Time: Dec 18 05:46:37 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

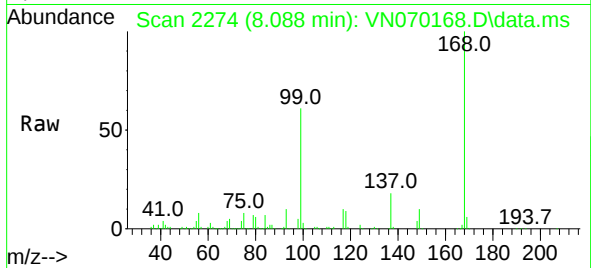
Reviewed By : John Carlone 12/18/2021  
Supervised By : Mahesh Dadoda 12/23/2021





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2273  
Delta R.T. 0.002 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

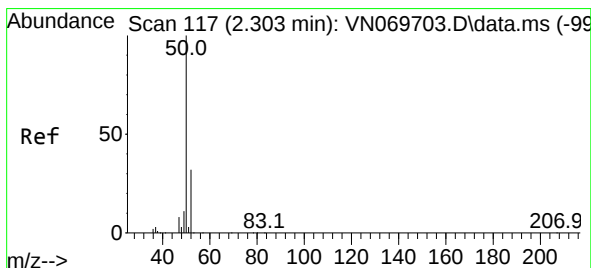
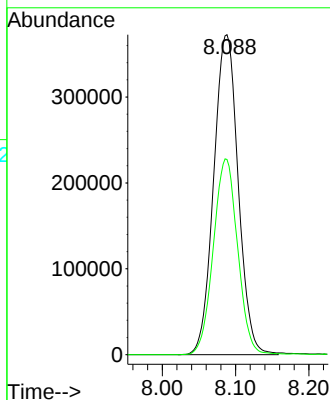
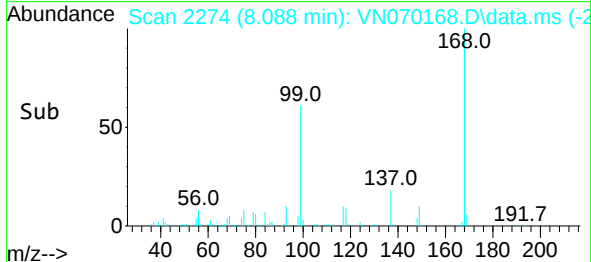
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion:168 Resp: 866318  
Ion Ratio Lower Upper  
168 100  
99 61.0 41.3 61.9

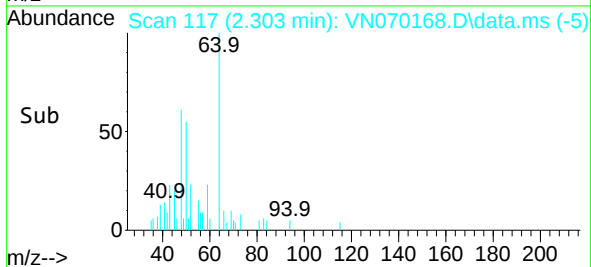
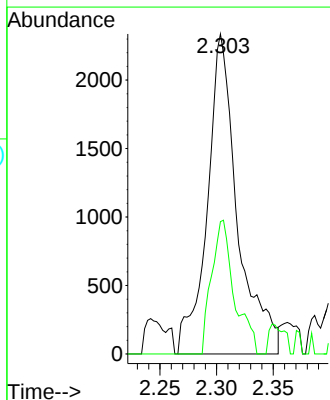
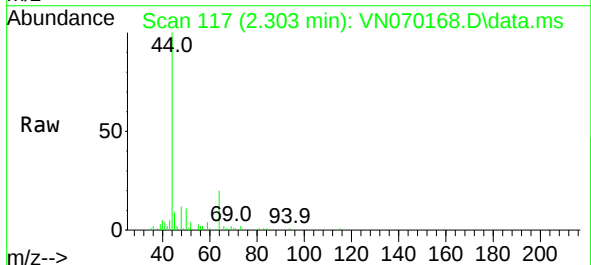
Manual Integrations  
APPROVED

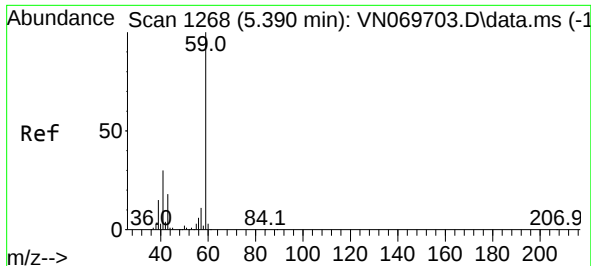
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#3  
Chloromethane  
Concen: 0.343 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

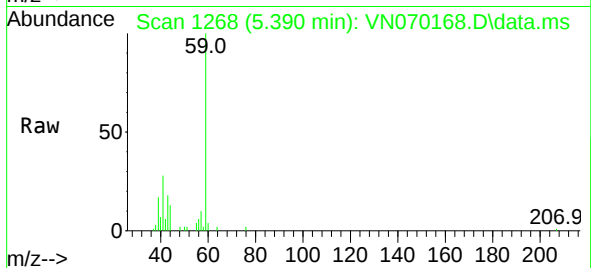
Tgt Ion: 50 Resp: 4348  
Ion Ratio Lower Upper  
50 100  
52 41.3 25.4 38.0#





#11  
Tert butyl alcohol  
Concen: 15.631 ug/l  
RT: 5.390 min Scan# 1268  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

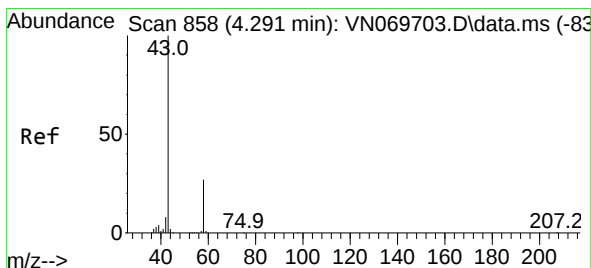
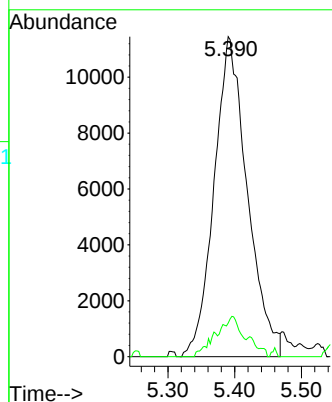
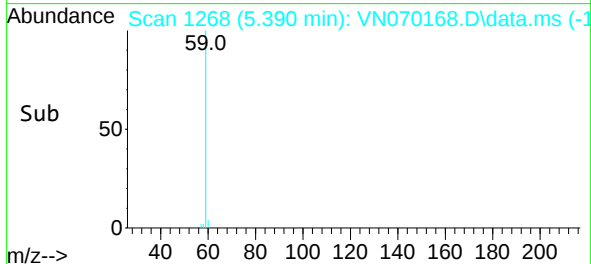
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion: 59 Resp: 39520  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1

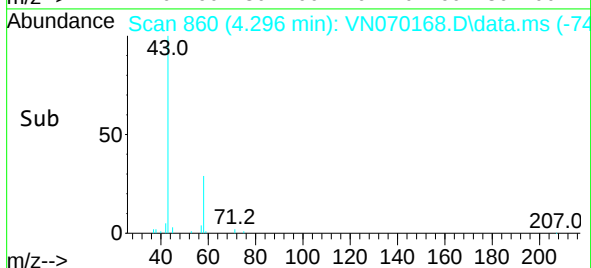
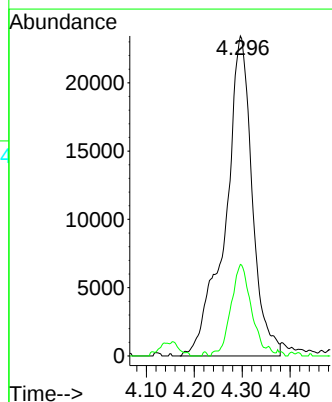
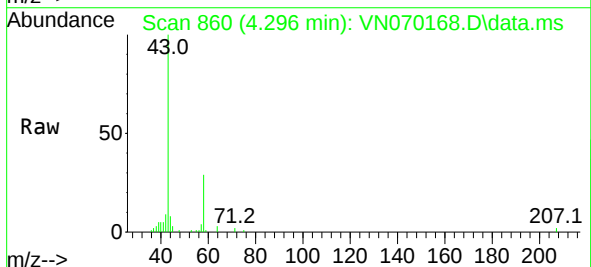
Manual Integrations  
APPROVED

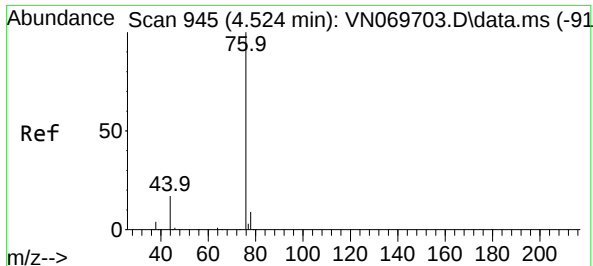
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#16  
Acetone  
Concen: 11.372 ug/l  
RT: 4.296 min Scan# 860  
Delta R.T. 0.006 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

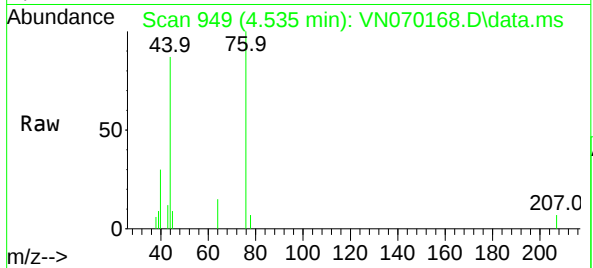
Tgt Ion: 43 Resp: 91504  
Ion Ratio Lower Upper  
43 100  
58 27.3 23.1 34.7





#17  
Carbon Disulfide  
Concen: 0.411 ug/l m  
RT: 4.535 min Scan# 945  
Delta R.T. 0.011 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

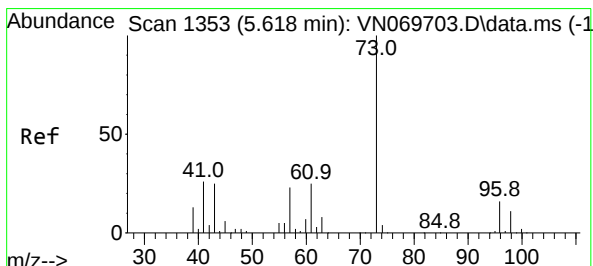
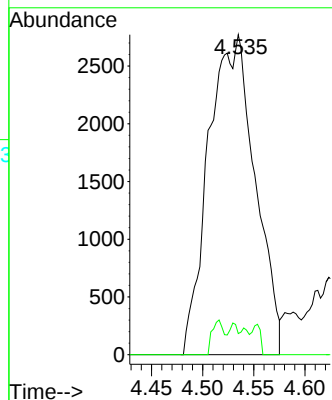
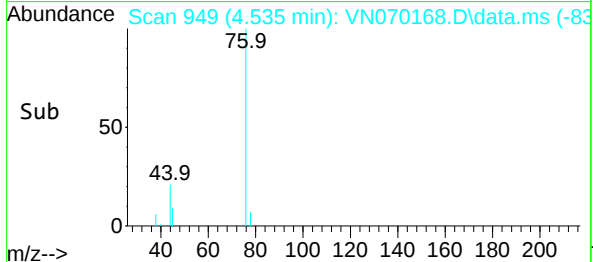
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion: 76 Resp: 8764  
Ion Ratio Lower Upper  
76 100  
78 6.6 7.5 11.3

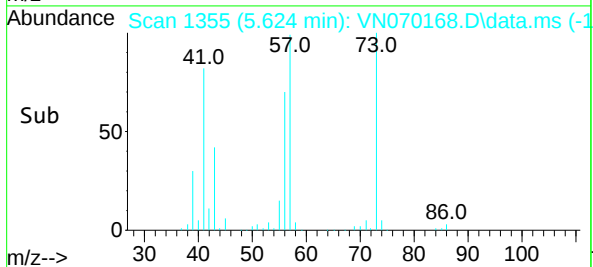
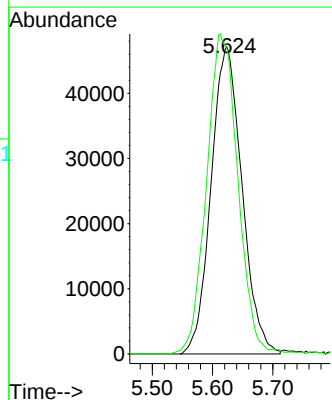
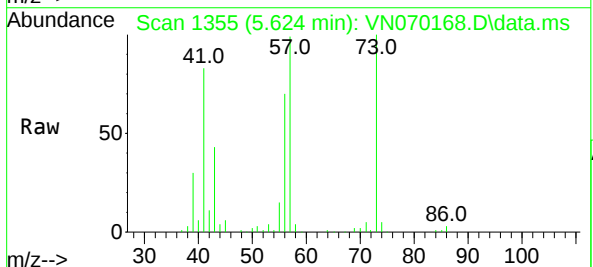
Manual Integrations  
APPROVED

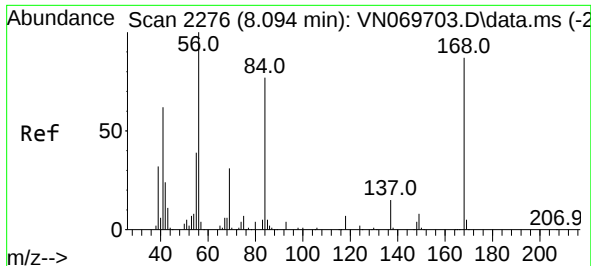
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#19  
Methyl tert-butyl Ether  
Concen: 5.233 ug/l  
RT: 5.624 min Scan# 1355  
Delta R.T. 0.006 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

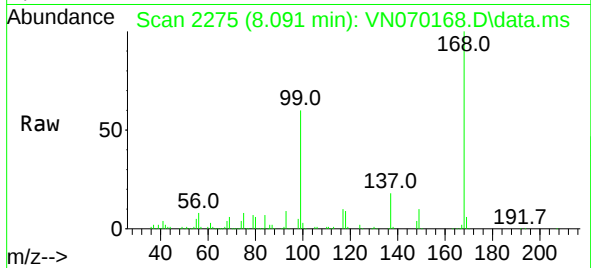
Tgt Ion: 73 Resp: 167904  
Ion Ratio Lower Upper  
73 100  
57 98.2 16.8 25.2





#31  
Cyclohexane  
Concen: 4.161 ug/l  
RT: 8.091 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

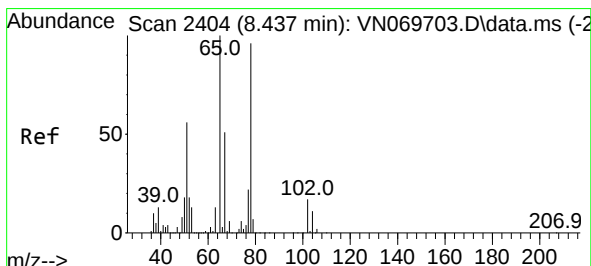
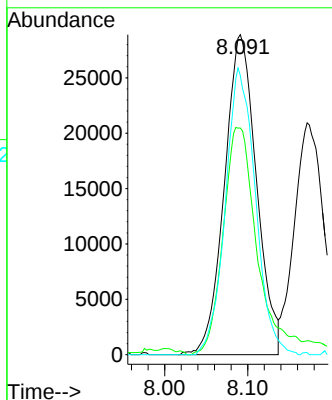
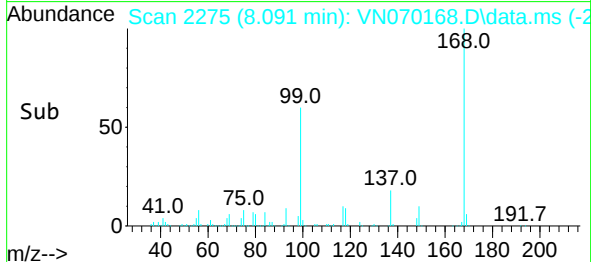
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



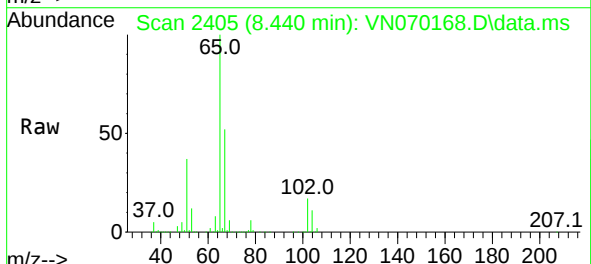
Tgt Ion: 56 Resp: 77449  
Ion Ratio Lower Upper  
56 100  
69 69.9 27.1 40.7  
84 87.2 73.4 110.0

Manual Integrations  
APPROVED

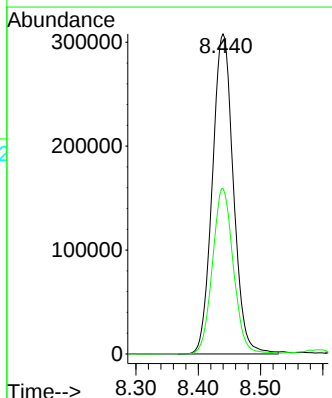
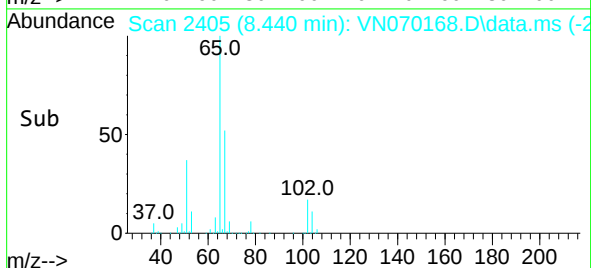
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021

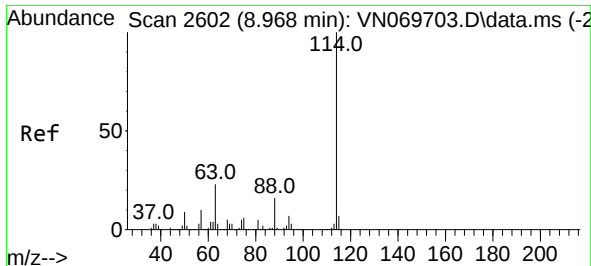


#33  
1,2-Dichloroethane-d4  
Concen: 53.984 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01



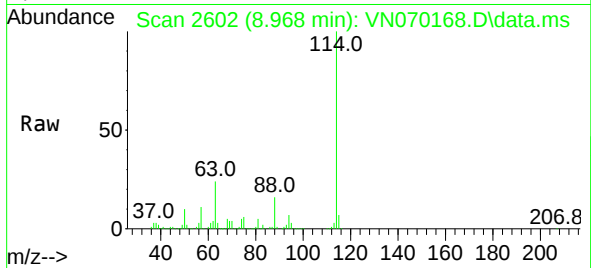
Tgt Ion: 65 Resp: 722082  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 103.0





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

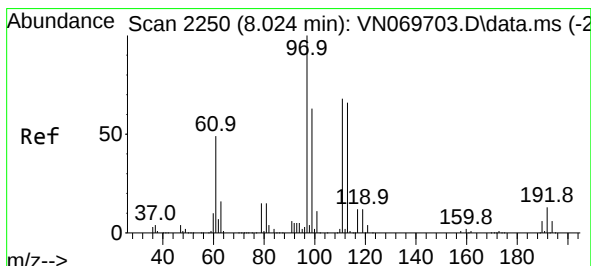
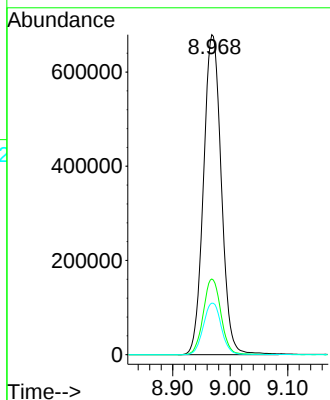
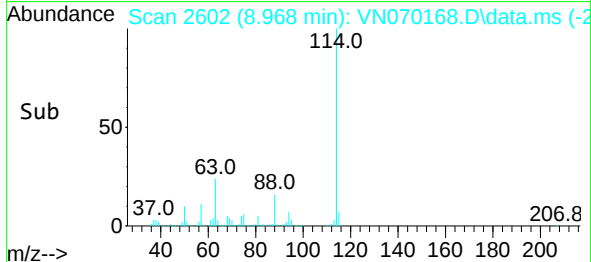
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion:114 Resp: 1458279  
Ion Ratio Lower Upper  
114 100  
63 23.6 0.0 37.8  
88 16.1 0.0 27.4

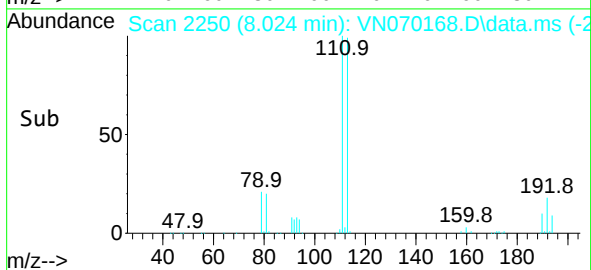
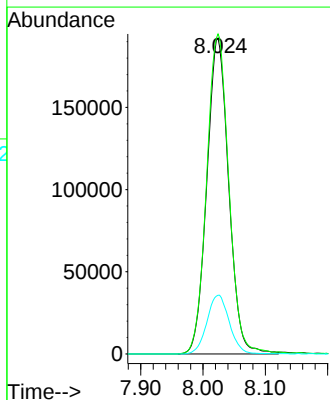
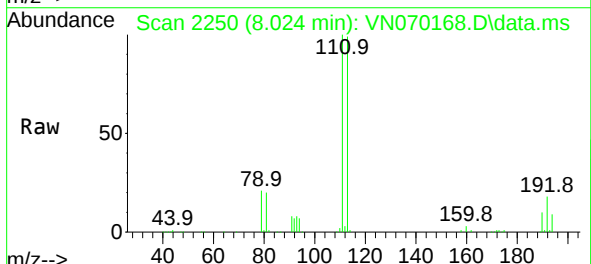
Manual Integrations  
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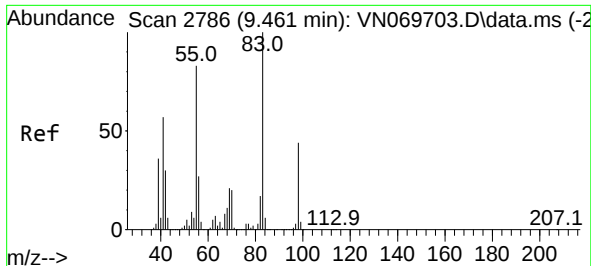
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#35  
Dibromofluoromethane  
Concen: 51.358 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

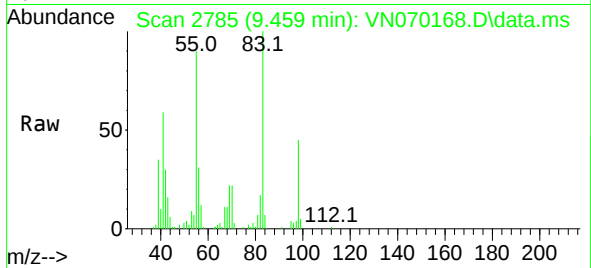
Tgt Ion:113 Resp: 469118  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.2 123.2  
192 19.1 16.9 25.3





#39  
Methylcyclohexane  
Concen: 3.425 ug/l  
RT: 9.459 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

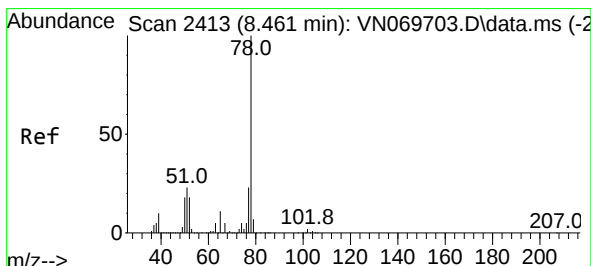
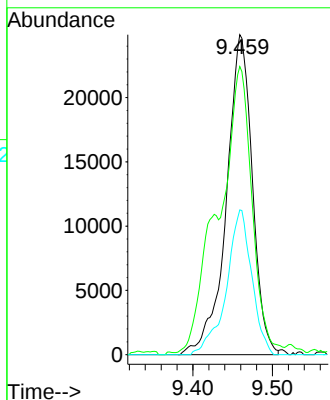
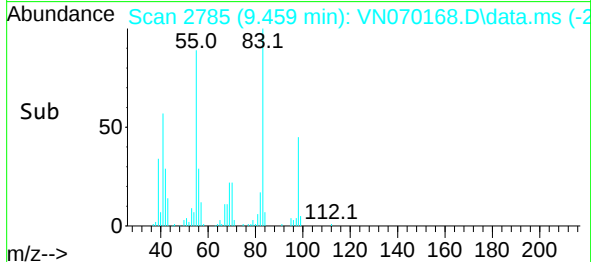
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion: 83 Resp: 5655  
Ion Ratio Lower Upper  
83 100  
55 89.2 58.1 87.1  
98 45.2 38.4 57.6

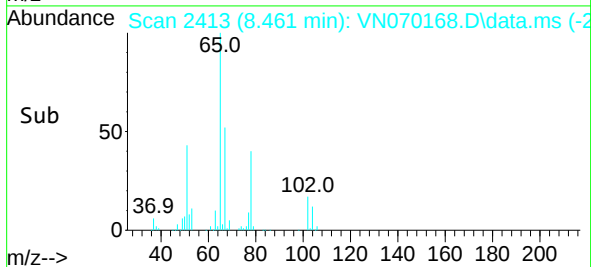
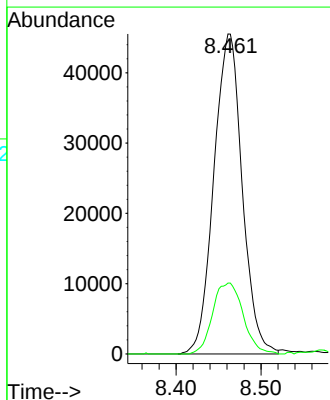
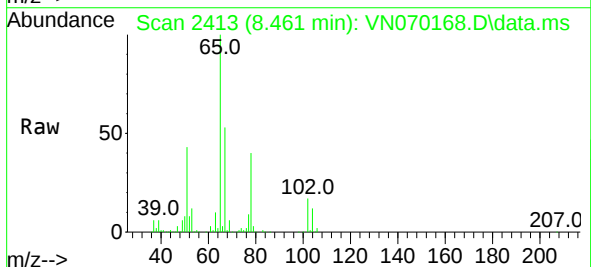
Manual Integrations  
APPROVED

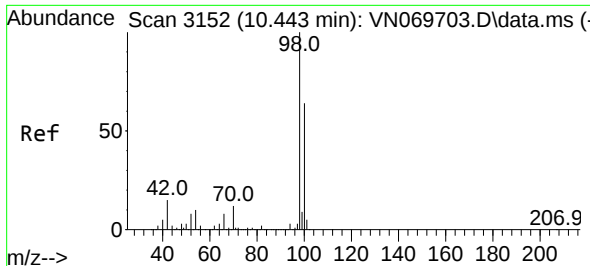
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#40  
Benzene  
Concen: 2.488 ug/l  
RT: 8.461 min Scan# 2413  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

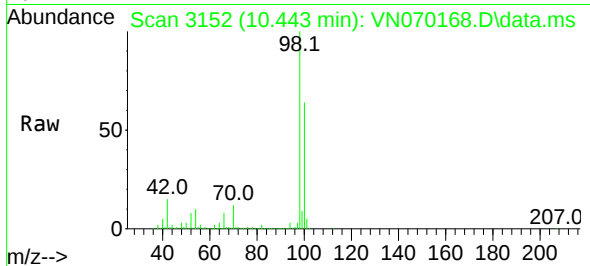
Tgt Ion: 78 Resp: 105561  
Ion Ratio Lower Upper  
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77 22.1 18.6 27.8





#50  
Toluene-d8  
Concen: 50.109 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

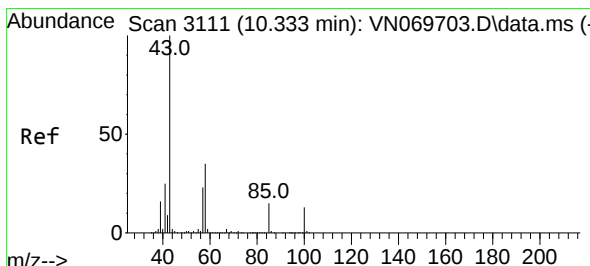
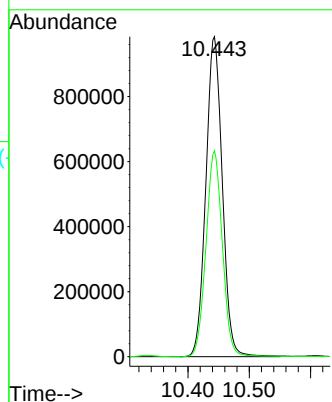
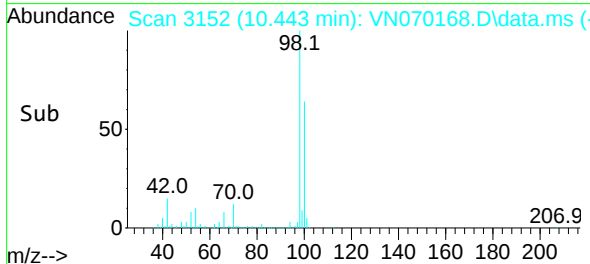
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion: 98 Resp: 1837879  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.4 75.6

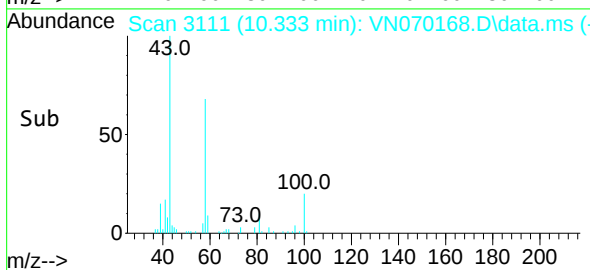
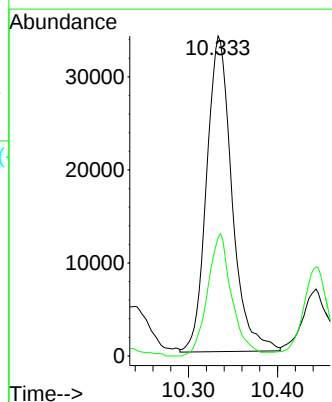
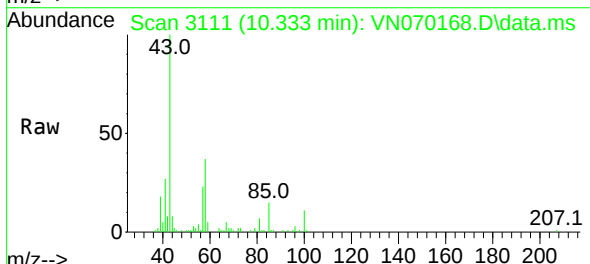
Manual Integrations  
APPROVED

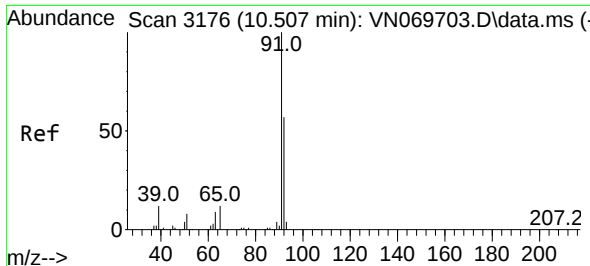
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#51  
4-Methyl-2-Pentanone  
Concen: 3.388 ug/l  
RT: 10.333 min Scan# 3111  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

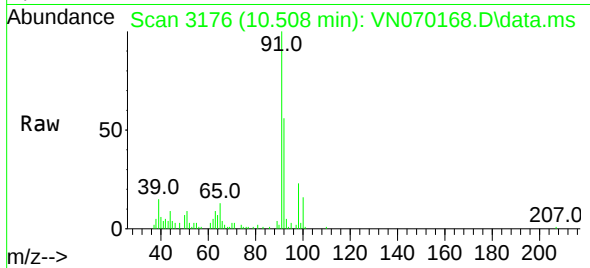
Tgt Ion: 43 Resp: 67208  
Ion Ratio Lower Upper  
43 100  
58 36.8 30.4 45.6





#52  
Toluene  
Concen: 0.892 ug/l  
RT: 10.508 min Scan# 3176  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

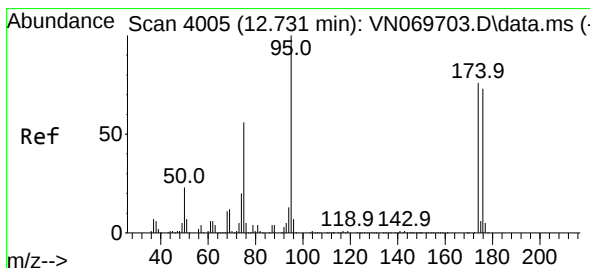
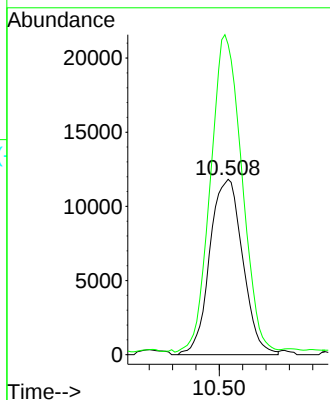
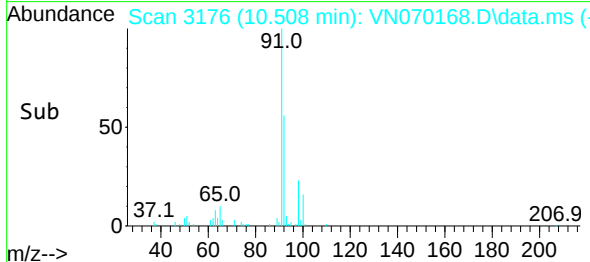
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



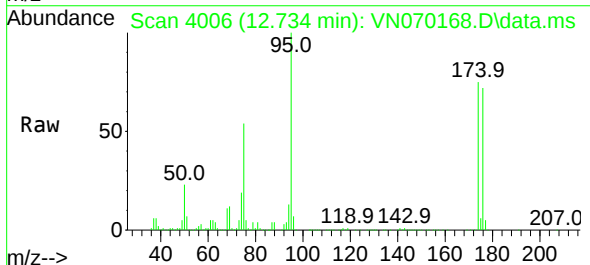
Tgt Ion: 92 Resp: 2311  
Ion Ratio Lower Upper  
92 100  
91 172.5 142.0 213.0

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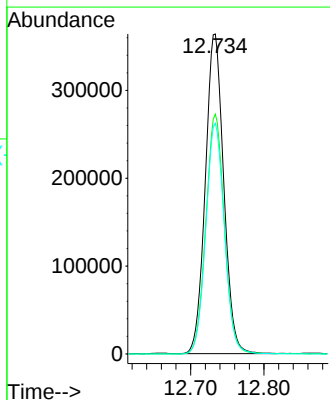
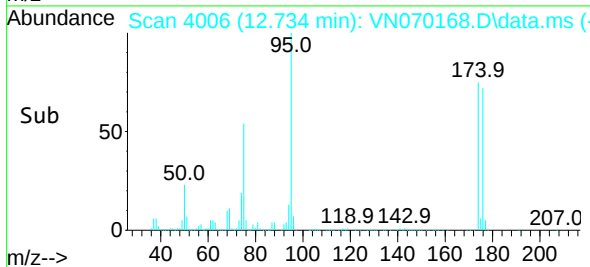
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021

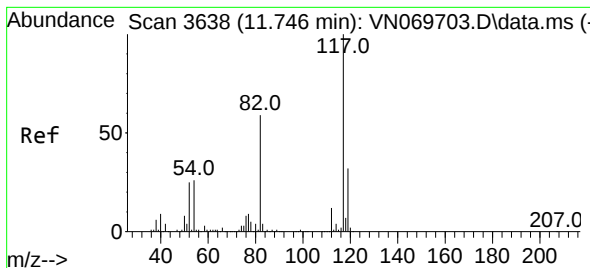


#62  
4-Bromofluorobenzene  
Concen: 47.728 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01



Tgt Ion: 95 Resp: 634187  
Ion Ratio Lower Upper  
95 100  
174 75.6 0.0 187.2  
176 72.8 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.747 min Scan# 3638

Delta R.T. 0.001 min

Lab File: VN070168.D

Acq: 17 Dec 2021 17:01

Instrument :

MSVOA\_N

ClientSampleId :

MW-16

Tgt Ion:117 Resp: 132095

Ion Ratio Lower Upper

117 100

82 58.6 42.4 63.6

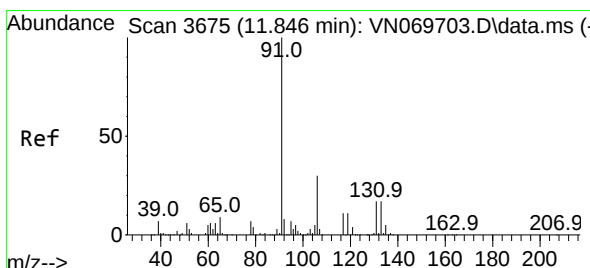
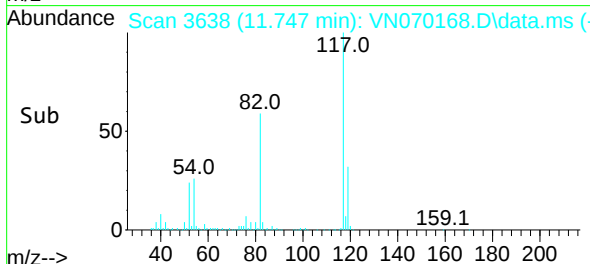
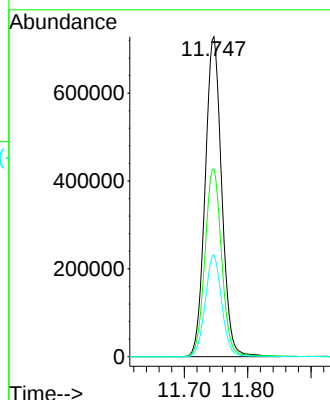
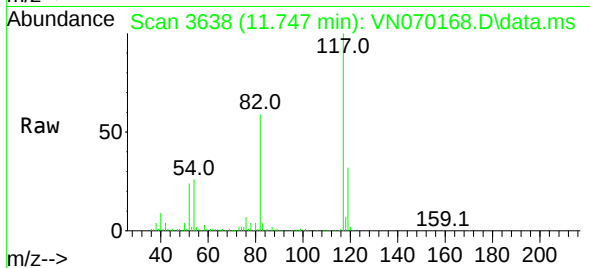
119 31.8 25.4 38.2

Manual Integrations

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Reviewed By :John Carlone 12/18/2021

Supervised By :Mahesh Dadoda 12/23/2021



#67

Ethyl Benzene

Concen: 9.475 ug/l

RT: 11.846 min Scan# 3675

Delta R.T. 0.000 min

Lab File: VN070168.D

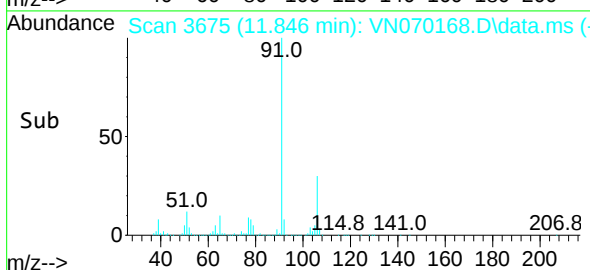
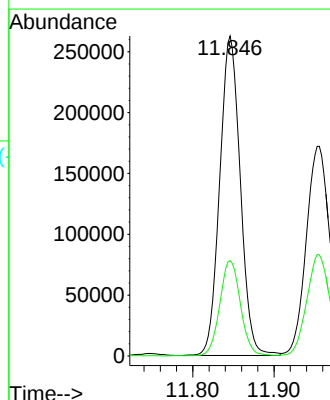
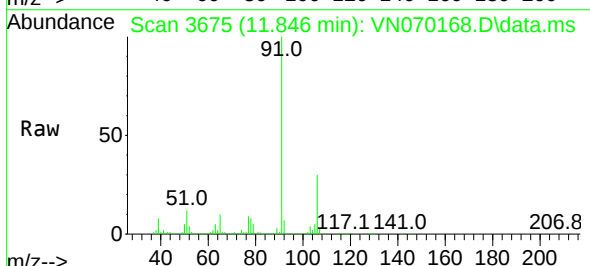
Acq: 17 Dec 2021 17:01

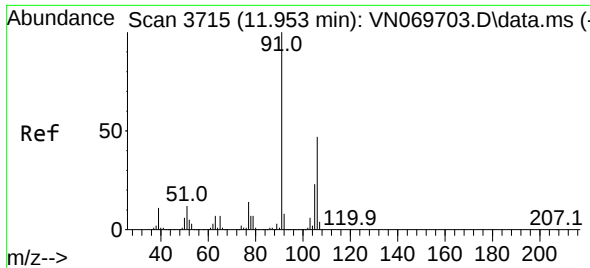
Tgt Ion: 91 Resp: 461216

Ion Ratio Lower Upper

91 100

106 29.7 25.7 38.5





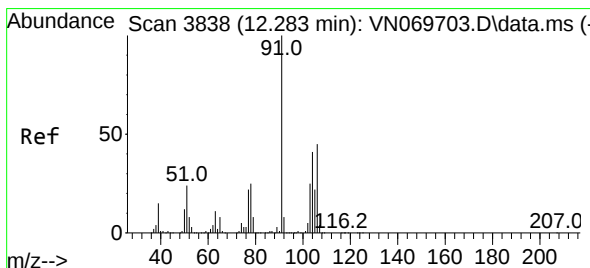
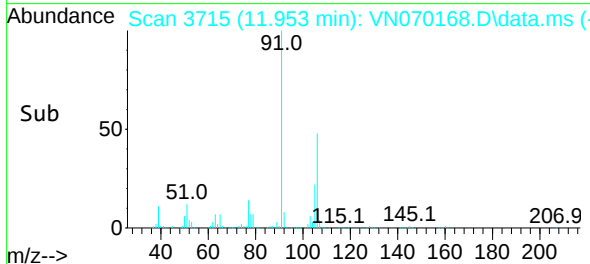
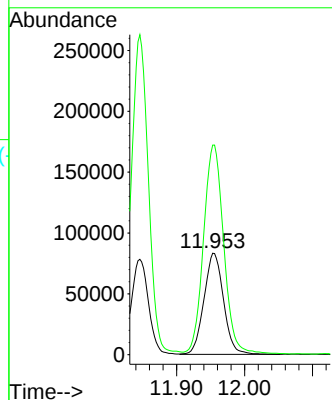
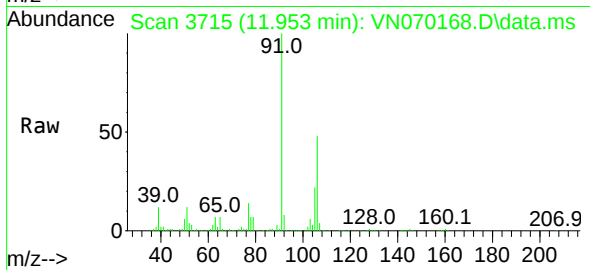
#68  
m/p-Xylenes  
Concen: 9.382 ug/l  
RT: 11.953 min Scan# 3715  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16

Tgt Ion:106 Resp: 166290  
Ion Ratio Lower Upper  
106 100  
91 213.6 160.6 240.8

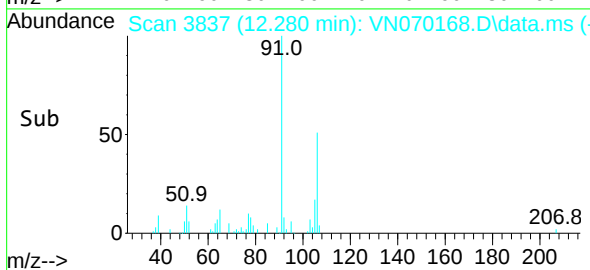
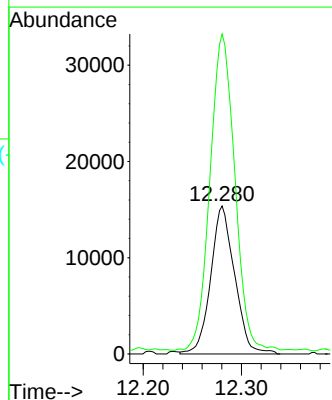
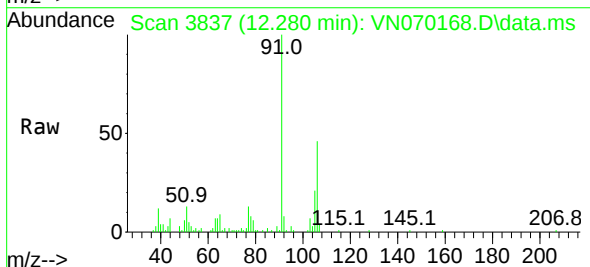
Manual Integrations  
APPROVED

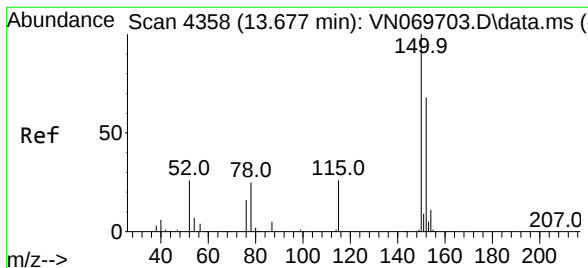
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#69  
o-Xylene  
Concen: 1.457 ug/l  
RT: 12.280 min Scan# 3837  
Delta R.T. -0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

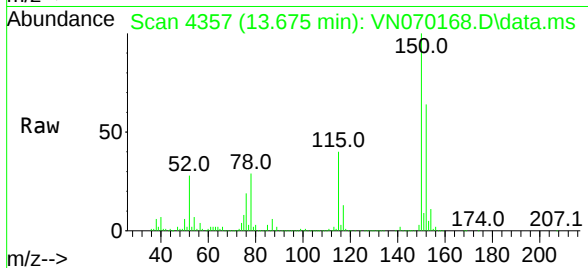
Tgt Ion:106 Resp: 26013  
Ion Ratio Lower Upper  
106 100  
91 219.6 105.8 317.3





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4358  
Delta R.T. -0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

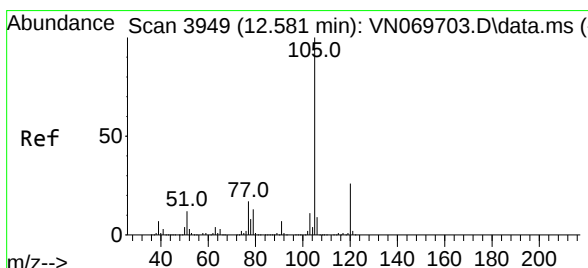
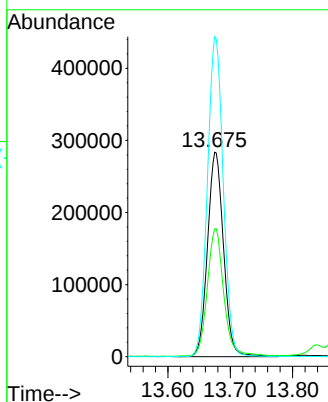
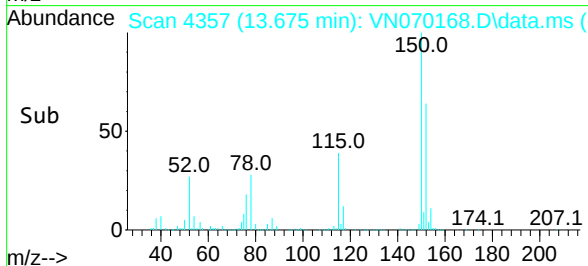
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



Tgt Ion:152 Resp: 506254  
Ion Ratio Lower Upper  
152 100  
115 63.5 27.5 82.5  
150 154.5 0.0 344.4

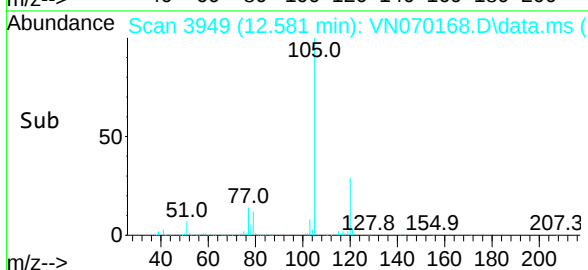
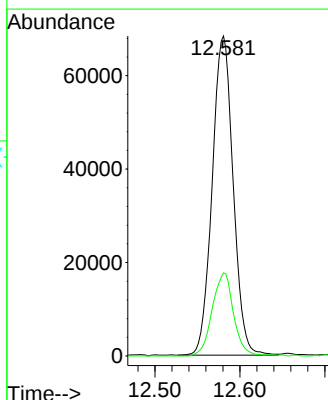
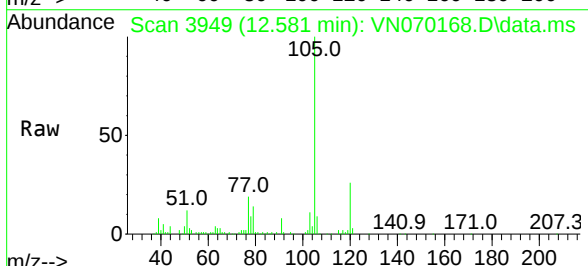
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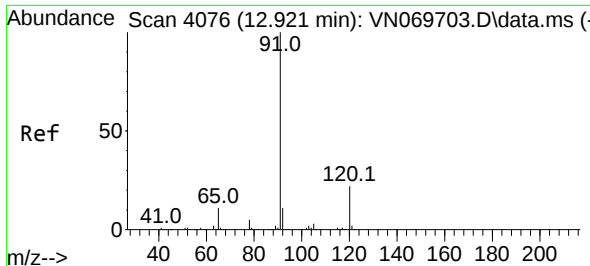
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#73  
Isopropylbenzene  
Concen: 2.600 ug/l  
RT: 12.581 min Scan# 3949  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

Tgt Ion:105 Resp: 117099  
Ion Ratio Lower Upper  
105 100  
120 26.4 13.4 40.1





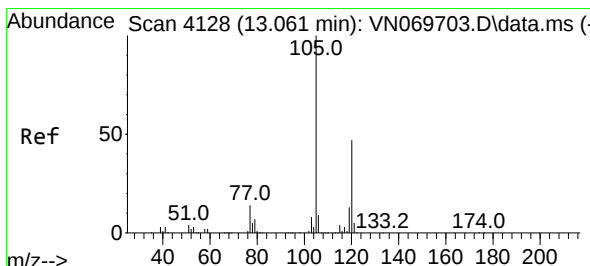
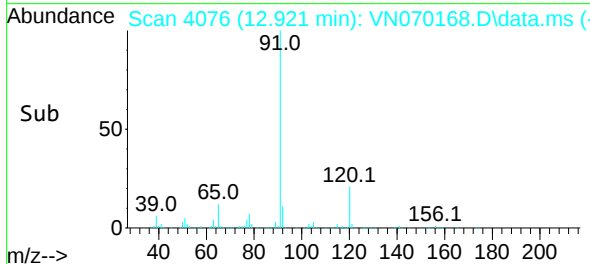
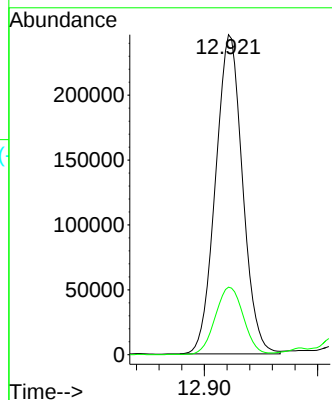
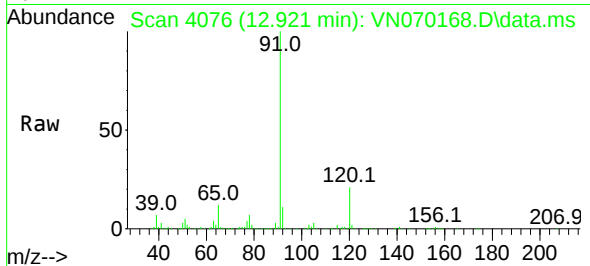
#78  
n-propylbenzene  
Concen: 8.129 ug/l  
RT: 12.921 min Scan# 4076  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16

Tgt Ion: 91 Resp: 407460  
Ion Ratio Lower Upper  
91 100  
120 21.9 11.9 35.9

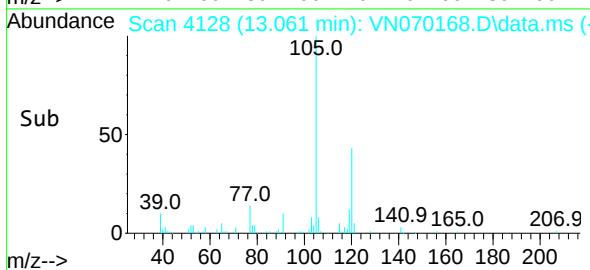
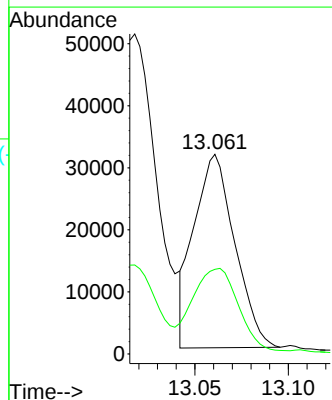
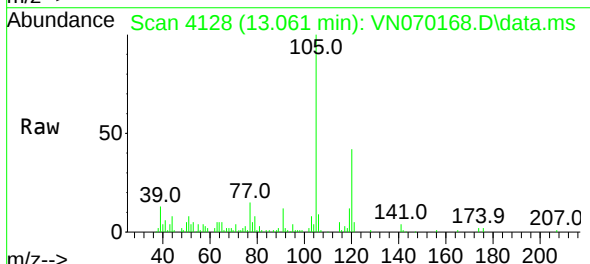
Manual Integrations  
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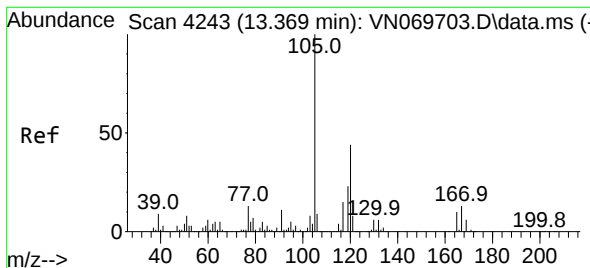
Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#80  
1,3,5-Trimethylbenzene  
Concen: 1.304 ug/l  
RT: 13.061 min Scan# 4128  
Delta R.T. 0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

Tgt Ion:105 Resp: 47261  
Ion Ratio Lower Upper  
105 100  
120 47.9 24.6 73.6





#84

1,2,4-Trimethylbenzene

Concen: 7.370 ug/l

RT: 13.369 min Scan# 4243

Delta R.T. 0.000 min

Lab File: VN070168.D

Acq: 17 Dec 2021 17:01

Instrument :

MSVOA\_N

ClientSampleId :

MW-16

Tgt Ion:105 Resp: 254478

Ion Ratio Lower Upper

105 100

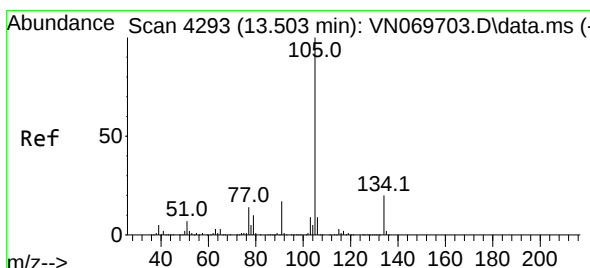
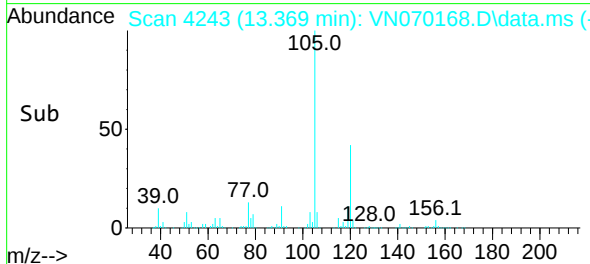
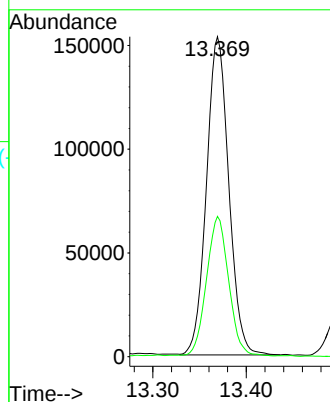
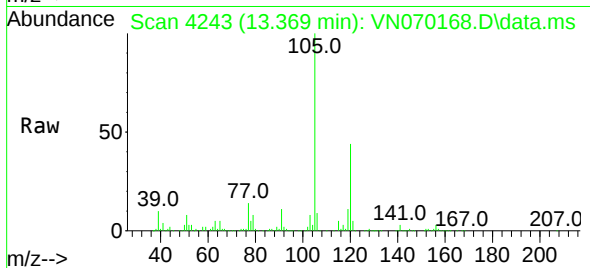
120 43.5 22.8 68.4

Manual Integrations

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Reviewed By :John Carlone 12/18/2021

Supervised By :Mahesh Dadoda 12/23/2021



#85

sec-Butylbenzene

Concen: 1.114 ug/l

RT: 13.503 min Scan# 4293

Delta R.T. 0.000 min

Lab File: VN070168.D

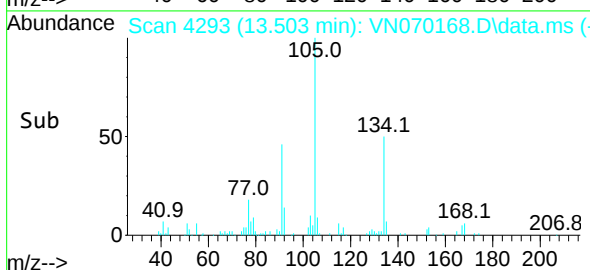
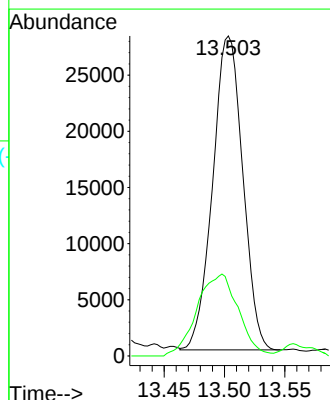
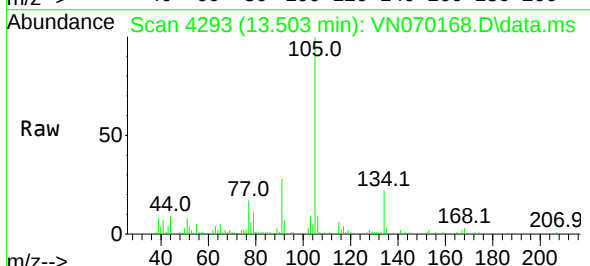
Acq: 17 Dec 2021 17:01

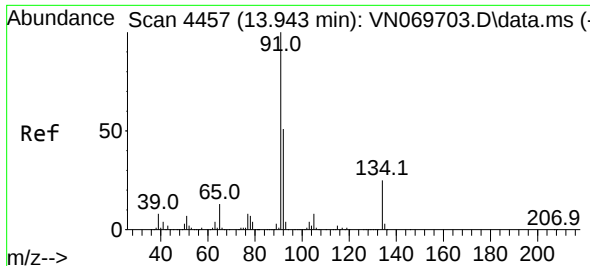
Tgt Ion:105 Resp: 48500

Ion Ratio Lower Upper

105 100

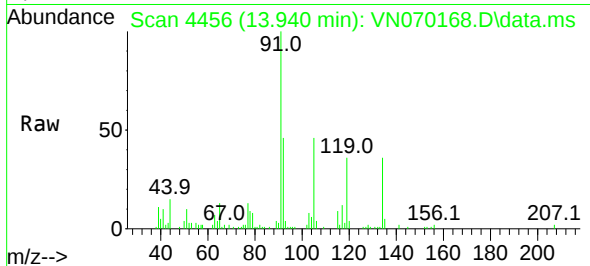
134 35.7 10.4 31.1#





#89  
n-Butylbenzene  
Concen: 1.290 ug/l m  
RT: 13.940 min Scan# 4457  
Delta R.T. -0.003 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01

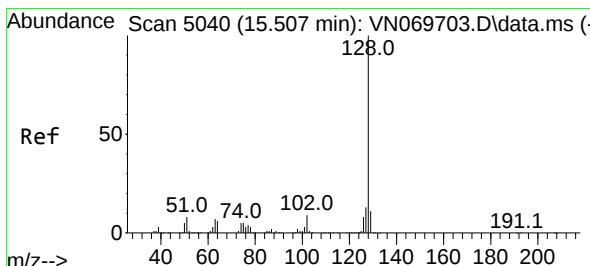
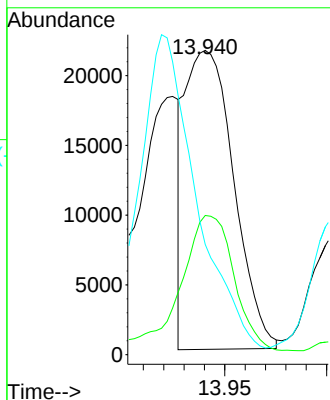
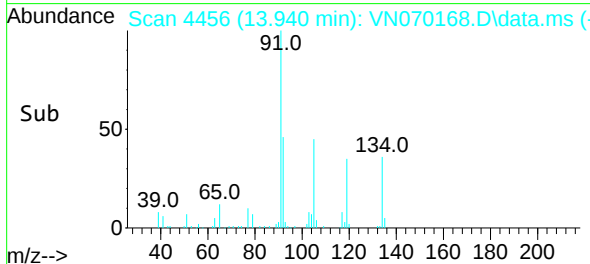
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-16



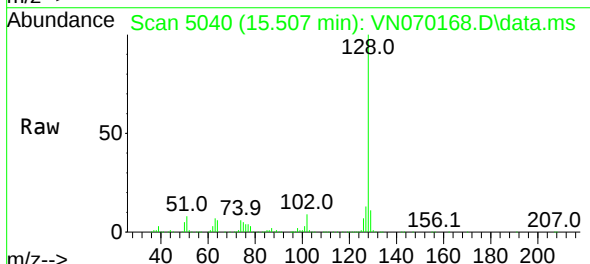
Tgt Ion: 91 Resp: 35624  
Ion Ratio Lower Upper  
91 100  
92 53.1 25.4 76.0  
134 0.0 13.6 40.8

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/18/2021  
Supervised By :Mahesh Dadoda 12/23/2021



#95  
Naphthalene  
Concen: 30.671 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN070168.D  
Acq: 17 Dec 2021 17:01



Tgt Ion:128 Resp: 717406  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.5 8.7 13.1

