

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120721\  
 Data File : VN069818.D  
 Acq On : 7 Dec 2021 16:41  
 Operator : JC/MD  
 Sample : M4956-14  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW202D-20211204

Quant Time: Dec 08 04:37:04 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 12/08/2021  
 Supervised By : Amit Patel 12/14/2021

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 8.085          | 168  | 1235401    | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.968          | 114  | 2235472    | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.744         | 117  | 2373022    | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.675         | 152  | 901175     | 50.00   | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.437          | 65   | 946565     | 49.62   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 99.24%  |        |          |
| 35) Dibromofluoromethane    | 8.021          | 113  | 661396     | 47.23   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 94.46%  |        |          |
| 50) Toluene-d8              | 10.440         | 98   | 2880228    | 51.23   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 102.46% |        |          |
| 62) 4-Bromofluorobenzene    | 12.731         | 95   | 1102230    | 54.11   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 108.22% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         |        | Qvalue   |
| 7) Trichlorofluoromethane   | 3.381          | 101  | 32446      | 1.49    | ug/l   | 92       |
| 12) 1,1-Dichloroethene      | 4.186          | 96   | 6630       | 0.56    | ug/l   | 83       |
| 16) Acetone                 | 4.296          | 43   | 29191      | 2.54    | ug/l # | 86       |
| 19) Methyl tert-butyl Ether | 5.623          | 73   | 23035m     | 0.50    | ug/l   |          |
| 24) 1,1-Dichloroethane      | 6.388          | 63   | 22173      | 0.83    | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene  | 7.326          | 96   | 52005      | 3.37    | ug/l   | 96       |
| 44) Trichloroethene         | 9.217          | 130  | 251499     | 16.20   | ug/l   | 90       |
| 64) Tetrachloroethene       | 10.977         | 164  | 82018      | 5.10    | ug/l   | 91       |
| -----                       |                |      |            |         |        |          |

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

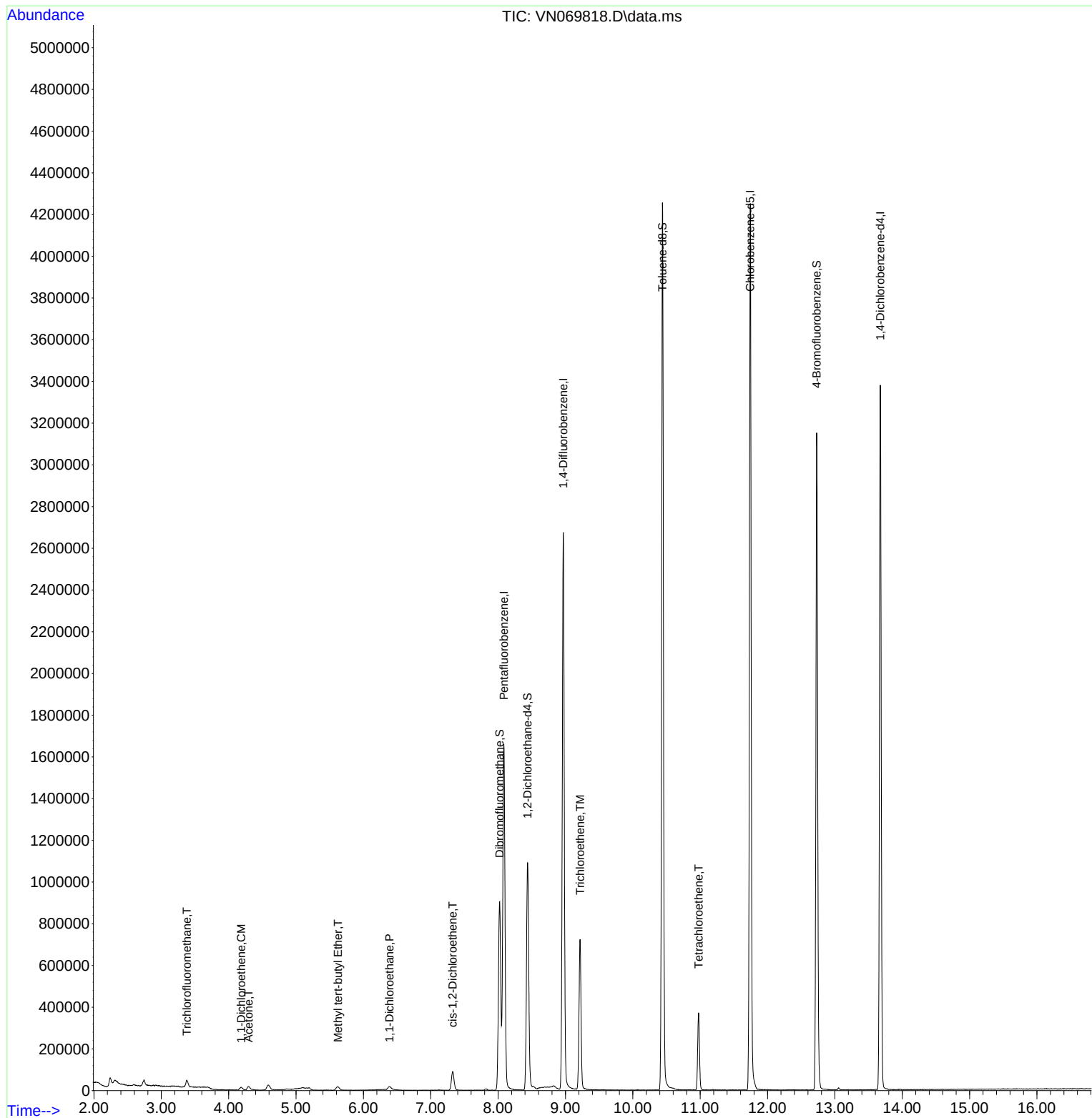
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120721\  
Data File : VN069818.D  
Acq On : 7 Dec 2021 16:41  
Operator : JC/MD  
Sample : M4956-14  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 17 Sample Multiplier: 1

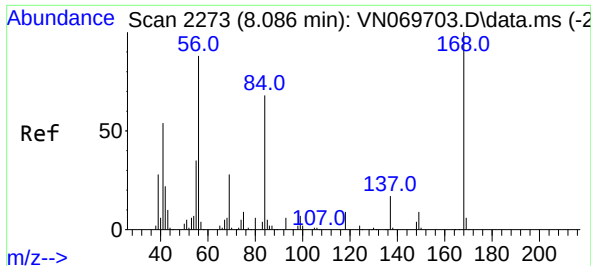
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204

Quant Time: Dec 08 04:37:04 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

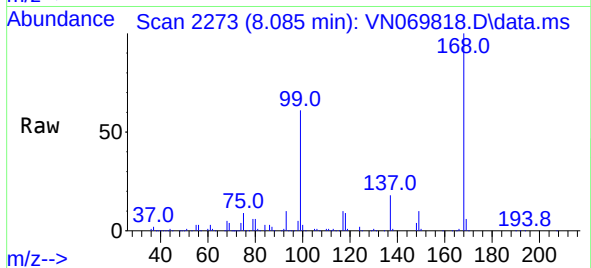
Reviewed By : John Carlone 12/08/2021  
Supervised By : Amit Patel 12/14/2021





#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 8.085 min Scan# 211  
Delta R.T. -0.001 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

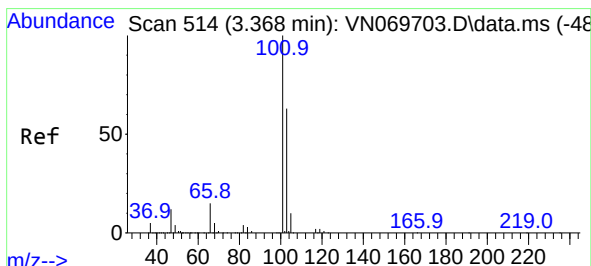
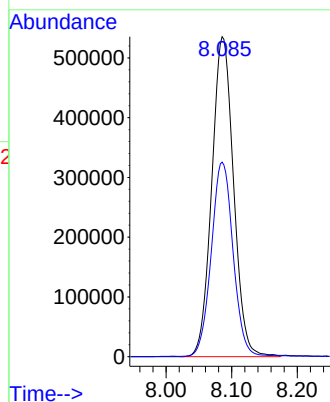
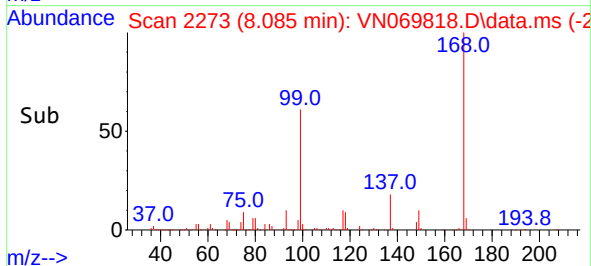
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204



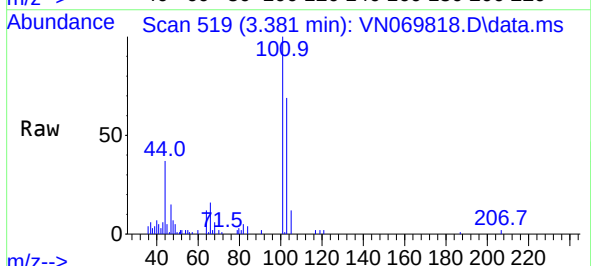
Tgt Ion:168 Resp: 123540  
Ion Ratio Lower Upper  
168 100  
99 60.7 41.3 61.9

Manual Integrations  
APPROVED

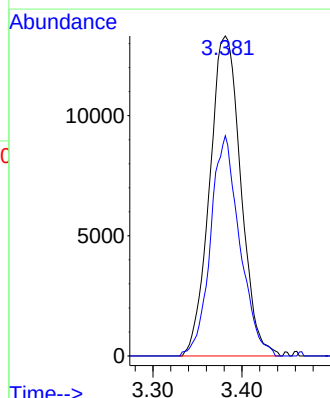
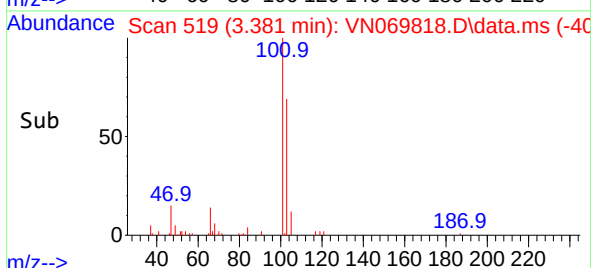
Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021

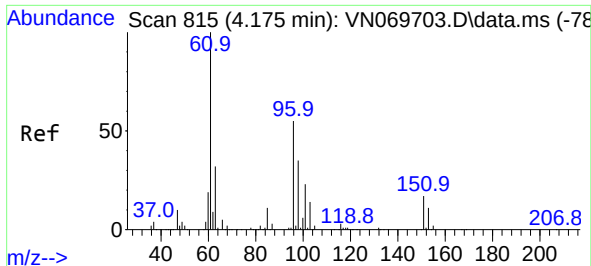


#7  
Trichlorofluoromethane  
Concen: 1.49 ug/l  
RT: 3.381 min Scan# 519  
Delta R.T. 0.013 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41



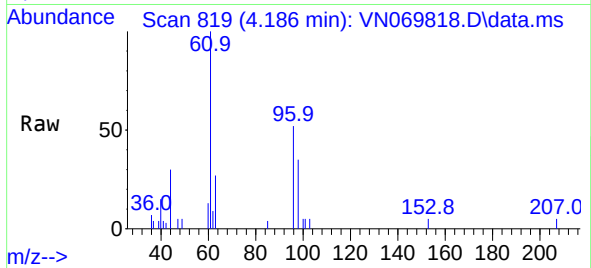
Tgt Ion:101 Resp: 32446  
Ion Ratio Lower Upper  
101 100  
103 68.8 50.1 75.1





#12  
1,1-Dichloroethene  
Concen: 0.56 ug/l  
RT: 4.186 min Scan# 815  
Delta R.T. 0.011 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

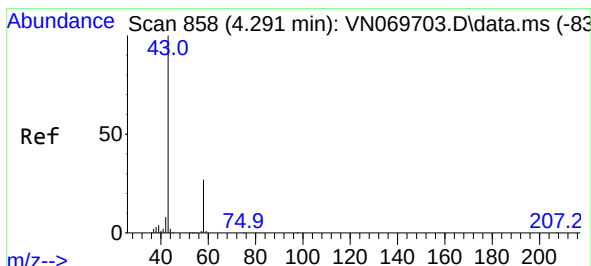
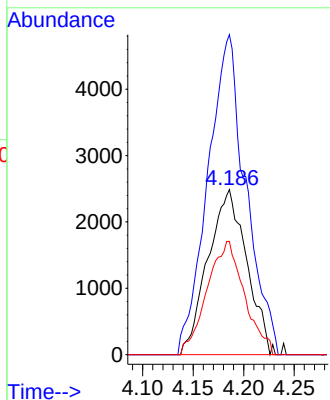
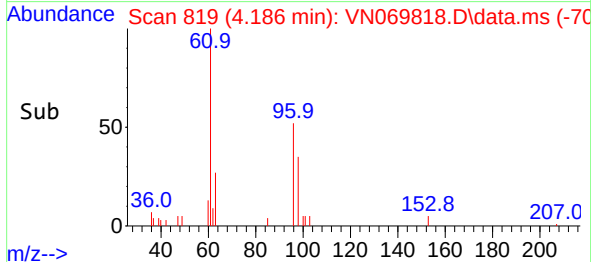
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204



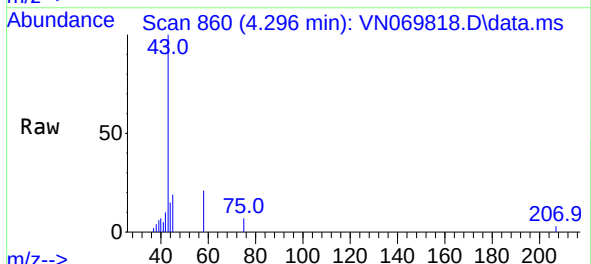
Tgt Ion: 96 Resp: 6630  
Ion Ratio Lower Upper  
96 100  
61 193.7 131.0 196.6  
98 68.5 52.4 78.6

Manual Integrations  
APPROVED

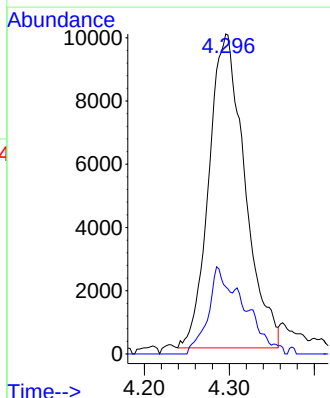
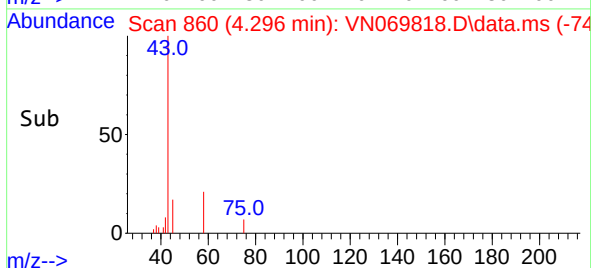
Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021

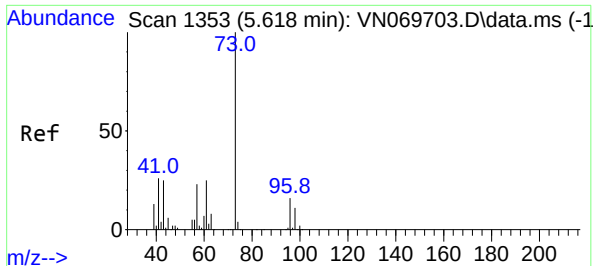


#16  
Acetone  
Concen: 2.54 ug/l  
RT: 4.296 min Scan# 860  
Delta R.T. 0.005 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41



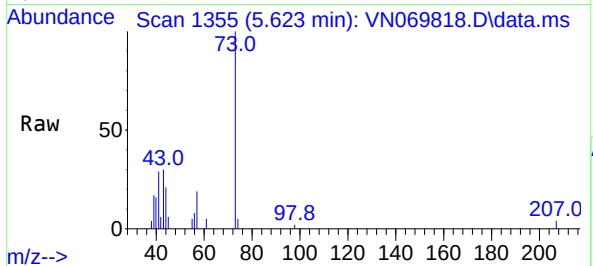
Tgt Ion: 43 Resp: 29191  
Ion Ratio Lower Upper  
43 100  
58 21.4 23.1 34.7#





#19  
Methyl tert-butyl Ether  
Concen: 0.50 ug/l m  
RT: 5.623 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

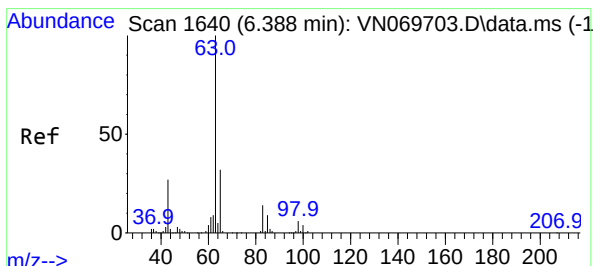
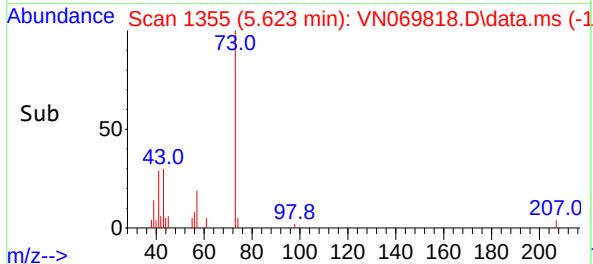
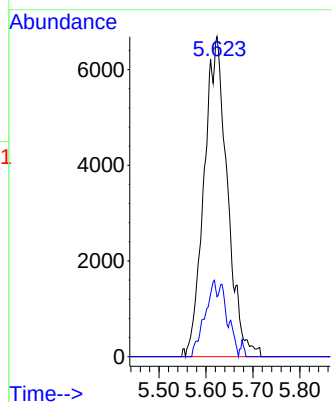
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204



Tgt Ion: 73 Resp: 2303  
Ion Ratio Lower Upper  
73 100  
57 18.7 16.8 25.2

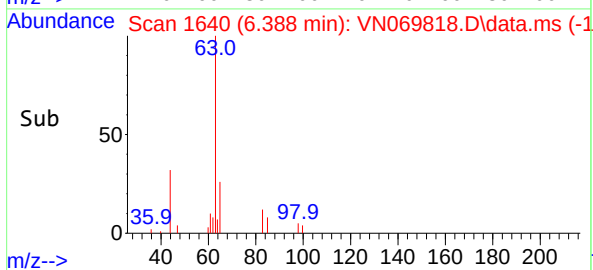
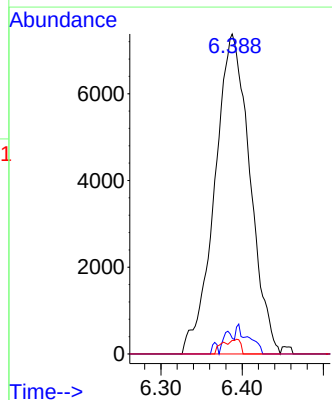
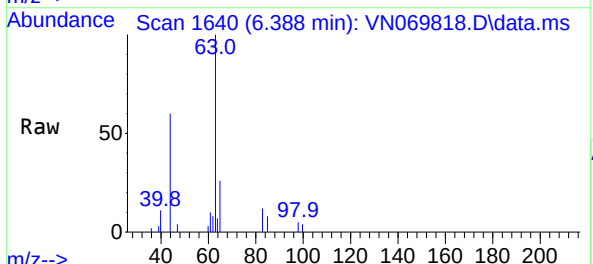
Manual Integrations  
APPROVED

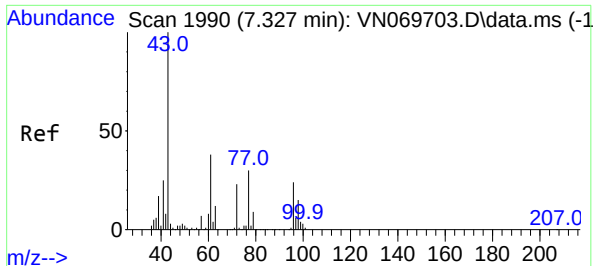
Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021



#24  
1,1-Dichloroethane  
Concen: 0.83 ug/l  
RT: 6.388 min Scan# 1640  
Delta R.T. -0.000 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

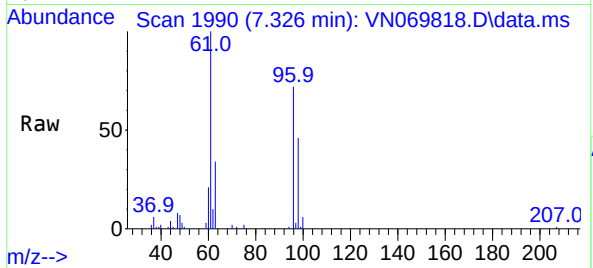
Tgt Ion: 63 Resp: 22173  
Ion Ratio Lower Upper  
63 100  
98 5.0 3.3 9.9  
100 4.3 2.1 6.5





#27  
 cis-1,2-Dichloroethene  
 Concen: 3.37 ug/l  
 RT: 7.326 min Scan# 1990  
 Delta R.T. -0.000 min  
 Lab File: VN069818.D  
 Acq: 7 Dec 2021 16:41

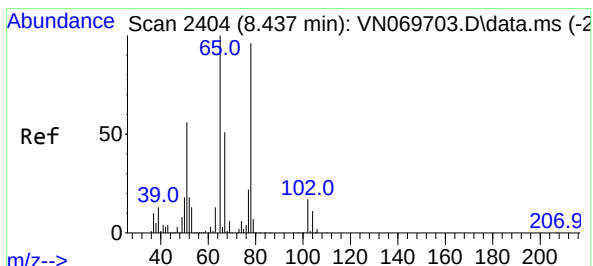
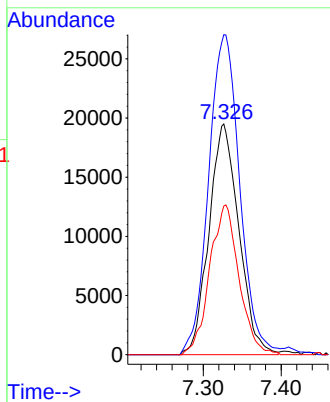
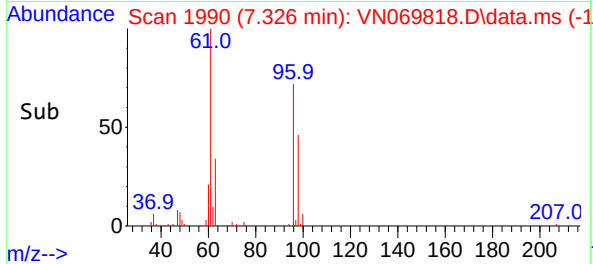
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW202D-20211204



Tgt Ion: 96 Resp: 5200  
 Ion Ratio Lower Upper  
 96 100  
 61 144.4 0.0 275.0  
 98 63.7 0.0 129.6

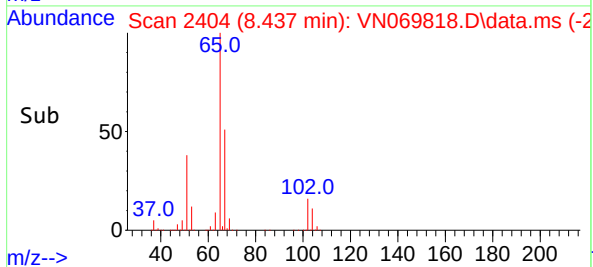
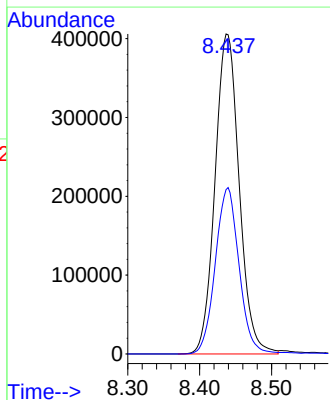
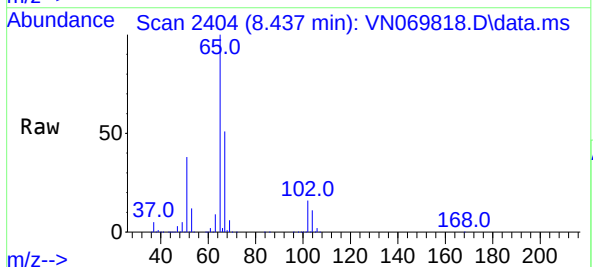
Manual Integrations  
 APPROVED

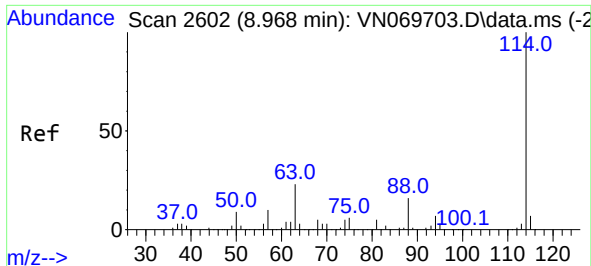
Reviewed By :John Carlone 12/08/2021  
 Supervised By :Amit Patel 12/14/2021



#33  
 1,2-Dichloroethane-d4  
 Concen: 49.62 ug/l  
 RT: 8.437 min Scan# 2404  
 Delta R.T. -0.000 min  
 Lab File: VN069818.D  
 Acq: 7 Dec 2021 16:41

Tgt Ion: 65 Resp: 946565  
 Ion Ratio Lower Upper  
 65 100  
 67 51.0 0.0 103.0





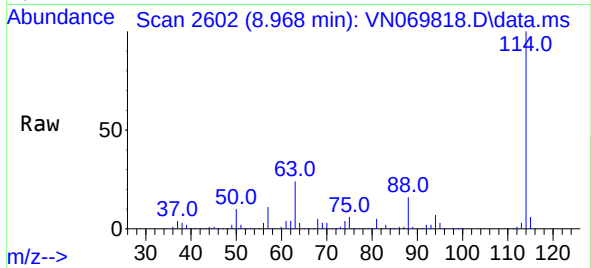
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. -0.000 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

Instrument :

MSVOA\_N

ClientSampleId :

MW202D-20211204

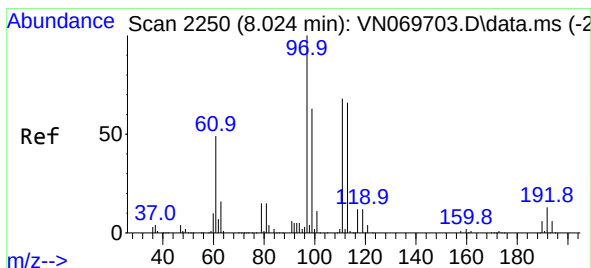
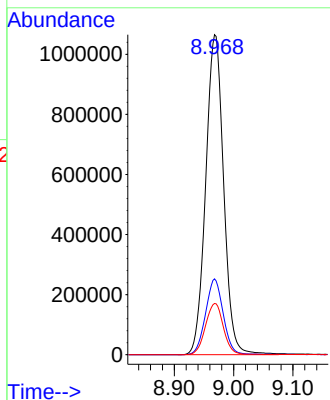
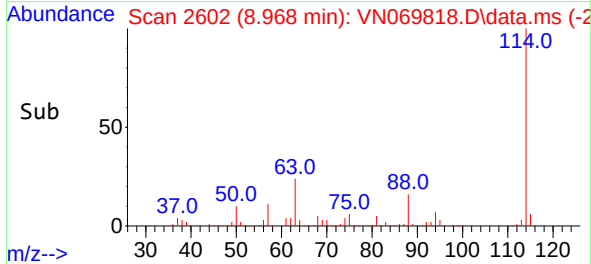


Tgt Ion:114 Resp: 223547  
Ion Ratio Lower Upper  
114 100  
63 23.7 0.0 37.8  
88 16.0 0.0 27.4

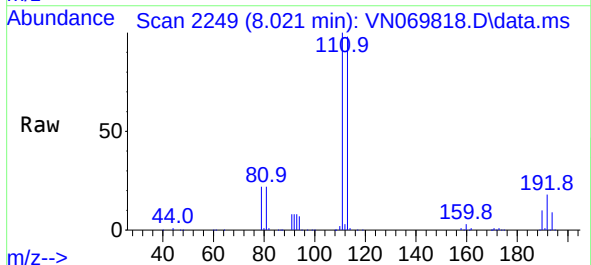
Manual Integrations

APPROVED

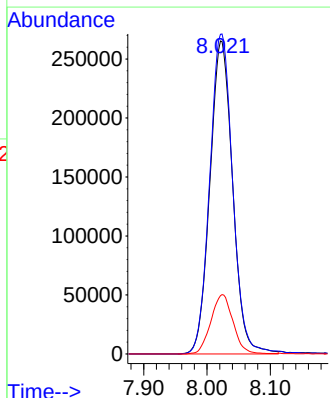
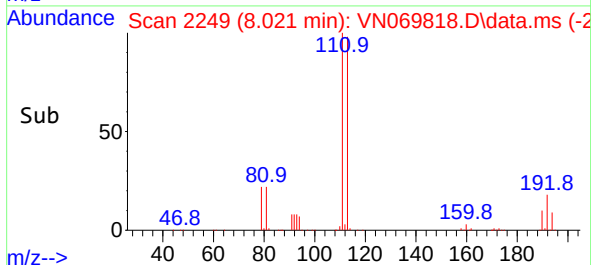
Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021

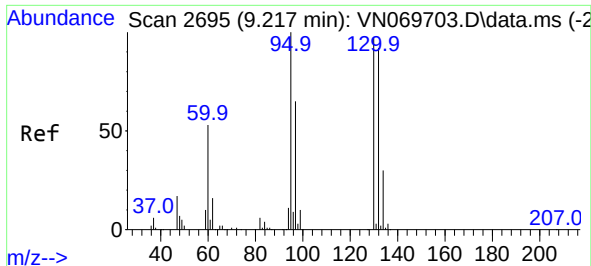


#35  
Dibromofluoromethane  
Concen: 47.23 ug/l  
RT: 8.021 min Scan# 2249  
Delta R.T. -0.003 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41



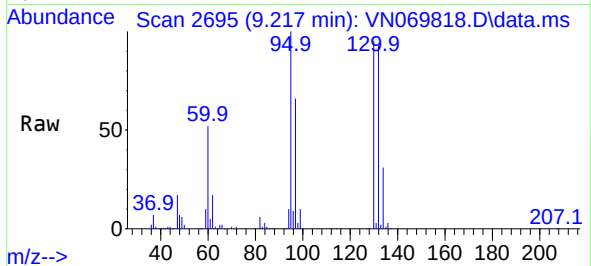
Tgt Ion:113 Resp: 661396  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.2 123.2  
192 18.5 16.9 25.3





#44  
Trichloroethene  
Concen: 16.20 ug/l  
RT: 9.217 min Scan# 2695  
Delta R.T. 0.000 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

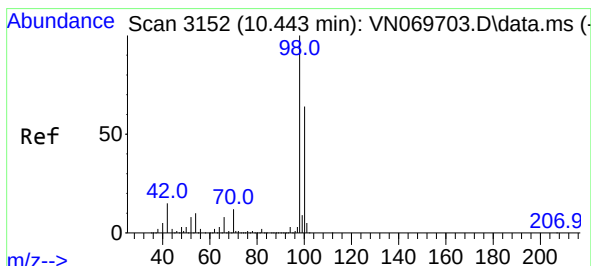
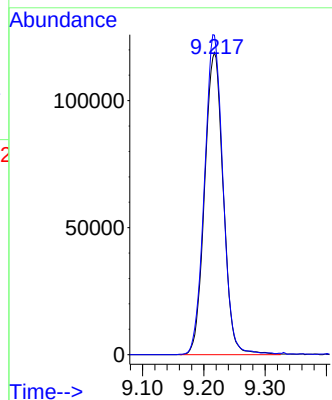
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204



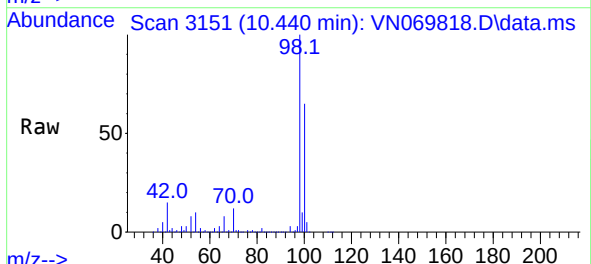
Tgt Ion:130 Resp: 251499  
Ion Ratio Lower Upper  
130 100  
95 105.6 0.0 191.2

Manual Integrations  
APPROVED

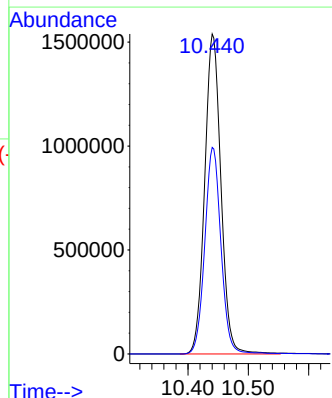
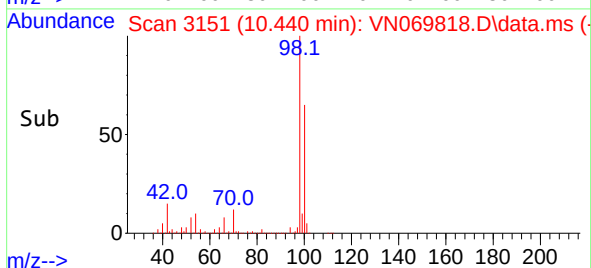
Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021



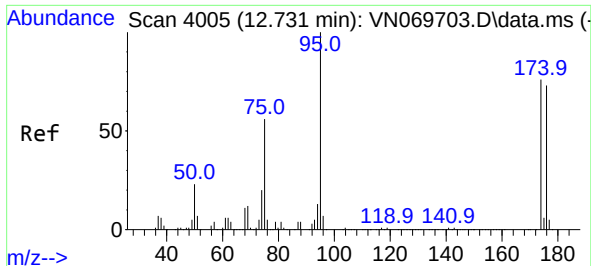
#50  
Toluene-d8  
Concen: 51.23 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.003 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41



Tgt Ion: 98 Resp: 2880228  
Ion Ratio Lower Upper  
98 100  
100 64.3 50.4 75.6

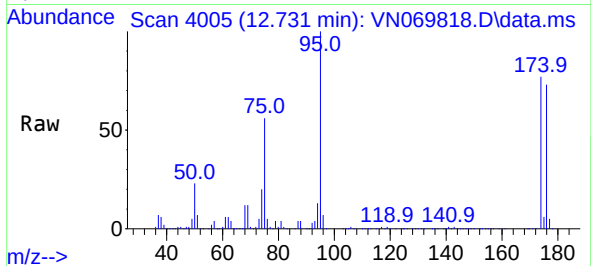






#62  
4-Bromofluorobenzene  
Concen: 54.11 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

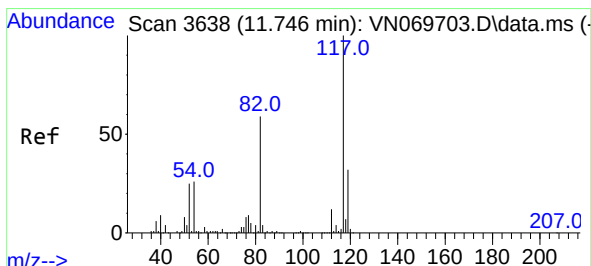
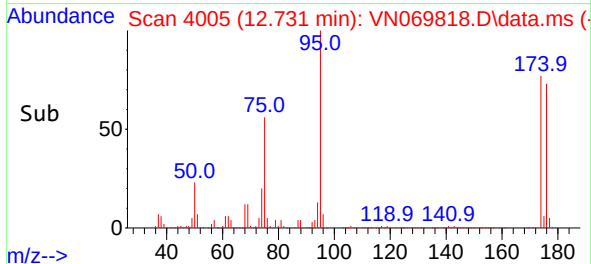
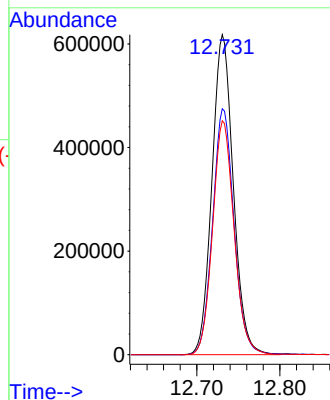
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204



Tgt Ion: 95 Resp: 1102230  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 187.2  
176 73.6 0.0 181.4

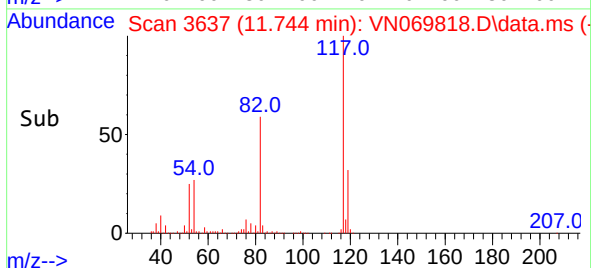
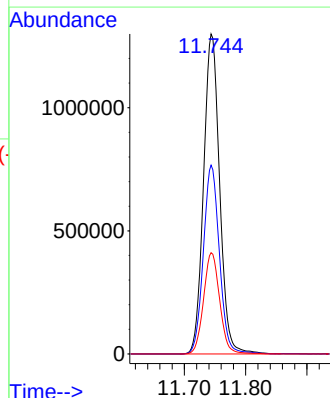
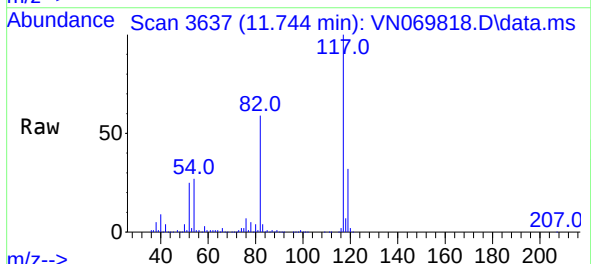
Manual Integrations  
APPROVED

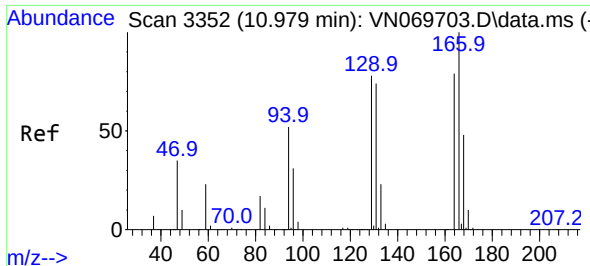
Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.002 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

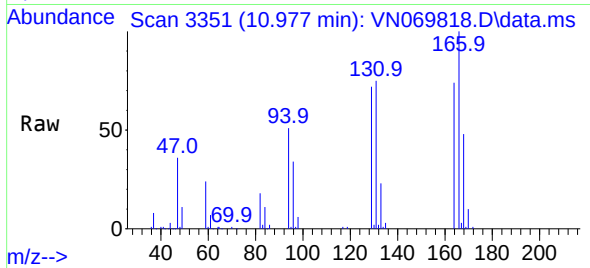
Tgt Ion:117 Resp: 2373022  
Ion Ratio Lower Upper  
117 100  
82 59.0 42.4 63.6  
119 31.7 25.4 38.2





#64  
Tetrachloroethene  
Concen: 5.10 ug/l  
RT: 10.977 min Scan# 31  
Delta R.T. -0.002 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41

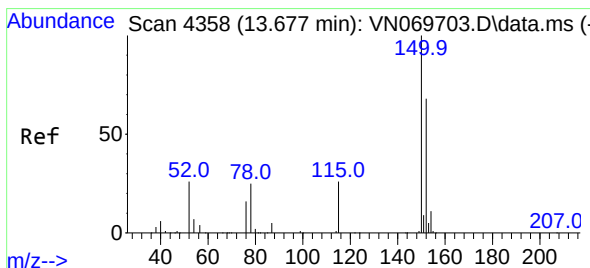
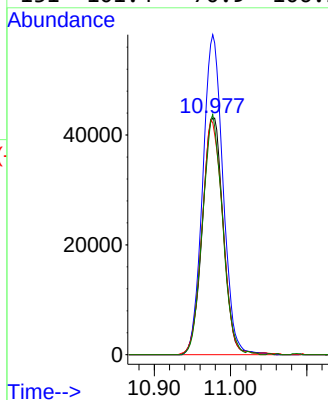
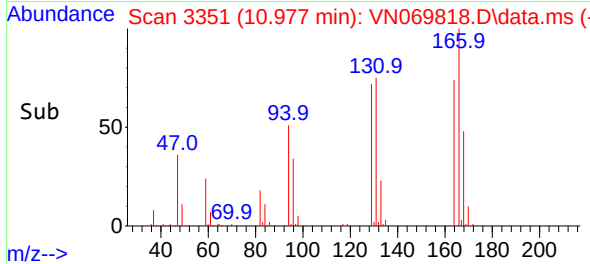
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW202D-20211204



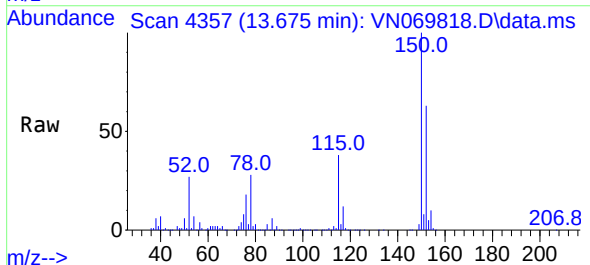
Tgt Ion:164 Resp: 82018  
Ion Ratio Lower Upper  
164 100  
166 135.1 101.9 152.9  
129 97.9 72.0 108.0  
131 101.4 70.9 106.3

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/08/2021  
Supervised By :Amit Patel 12/14/2021



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. -0.003 min  
Lab File: VN069818.D  
Acq: 7 Dec 2021 16:41



Tgt Ion:152 Resp: 901175  
Ion Ratio Lower Upper  
152 100  
115 61.1 27.5 82.5  
150 157.5 0.0 344.4

