

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112321\  
 Data File : VN069629.D  
 Acq On : 23 Nov 2021 16:23  
 Operator : JC/MD  
 Sample : M4820-03 5X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-3

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/24/2021  
 Supervised By : Mahesh Dadoda 11/26/2021

Quant Time: Nov 24 02:27:04 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111021W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Nov 10 14:36:17 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc   | Units | Dev(Min) |
|-----------------------------|----------------|------|---------------------|--------|-------|----------|
| -----                       |                |      |                     |        |       |          |
| Internal Standards          |                |      |                     |        |       |          |
| 1) Bromochloromethane       | 7.662          | 128  | 160653              | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.968          | 114  | 871954              | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5        | 11.744         | 117  | 737874              | 30.000 | ug/l  | 0.00     |
|                             |                |      |                     |        |       |          |
| System Monitoring Compounds |                |      |                     |        |       |          |
| 27) 1,2-Dichloroethane-d4   | 8.437          | 65   | 436376              | 31.319 | ug/l  | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = 104.400% |        |       |          |
| 60) 4-Bromofluorobenzene    | 12.733         | 95   | 279344              | 23.657 | ug/l  | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = 78.867%  |        |       |          |
| 63) Toluene-d8              | 10.440         | 98   | 1063845             | 31.226 | ug/l  | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = 104.100% |        |       |          |
|                             |                |      |                     |        |       |          |
| Target Compounds            |                |      |                     |        |       |          |
| 18) Methylene Chloride      | 5.103          | 84   | 10688m              | 1.045  | ug/l  | Qvalue   |
| 25) Chloroform              | 7.820          | 83   | 1349762             | 70.376 | ug/l  | 99       |
| 41) Bromodichloromethane    | 9.759          | 83   | 74960               | 5.562  | ug/l  | 94       |
| 53) Dibromochloromethane    | 11.242         | 129  | 2126                | 0.218  | ug/l  | 84       |
| -----                       |                |      |                     |        |       |          |

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

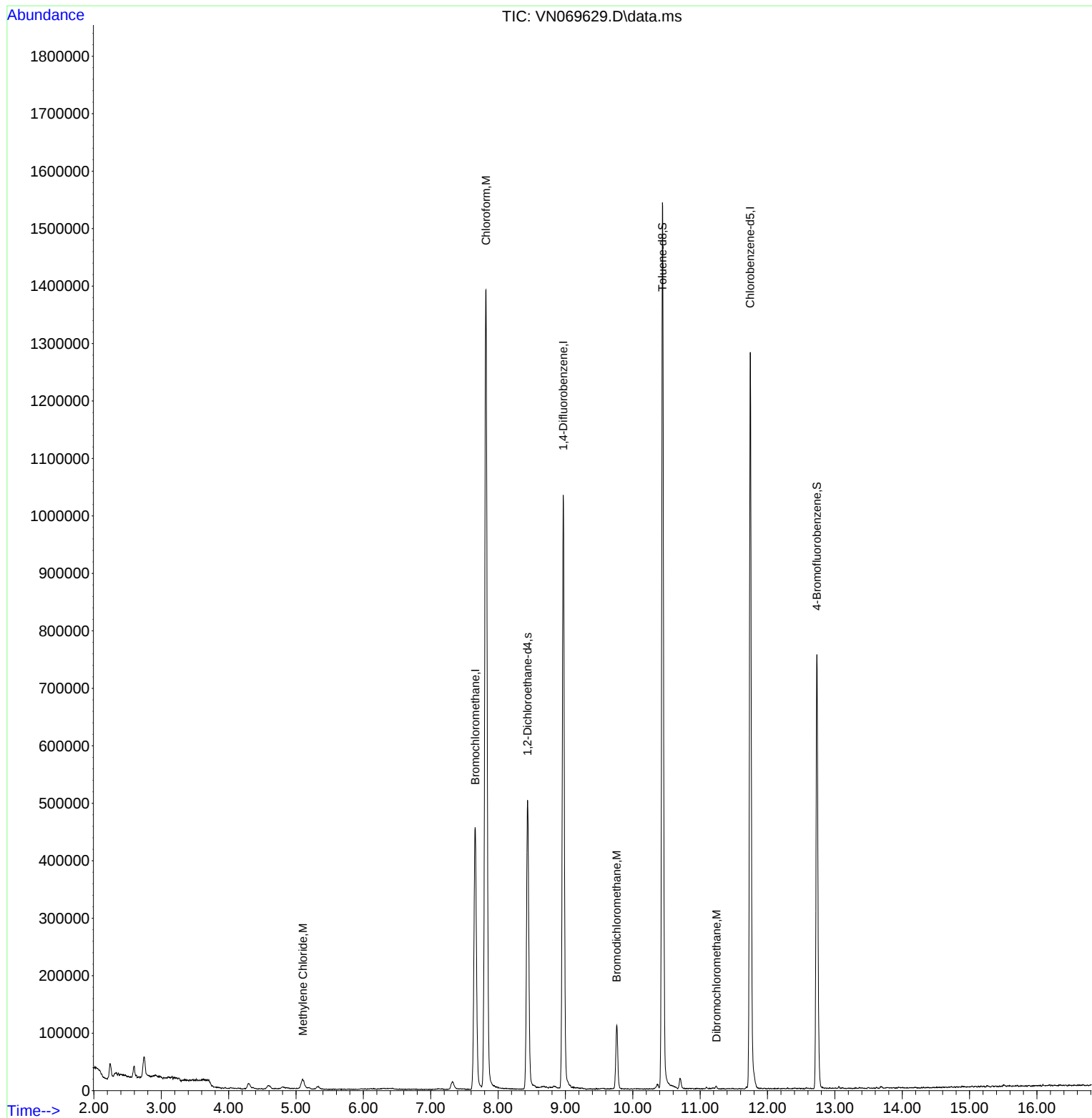
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112321\  
Data File : VN069629.D  
Acq On : 23 Nov 2021 16:23  
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Sample : M4820-03 5X  
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ALS Vial : 10 Sample Multiplier: 1

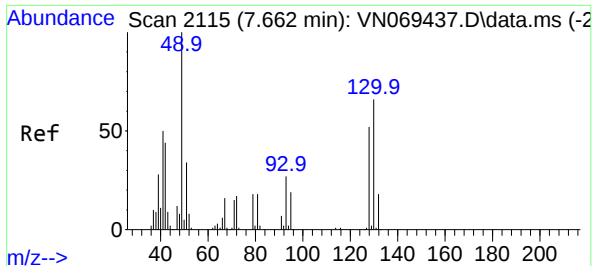
Instrument :  
MSVOA\_N  
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14B-3

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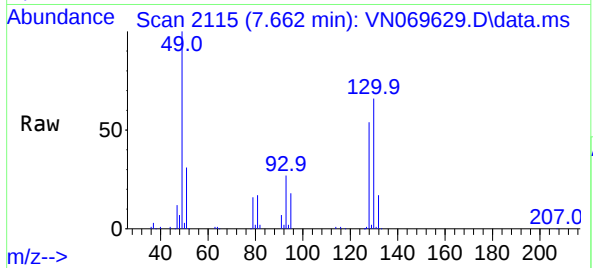
Quant Time: Nov 24 02:27:04 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111021W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Nov 10 14:36:17 2021  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.662 min Scan# 2115  
Delta R.T. -0.000 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23

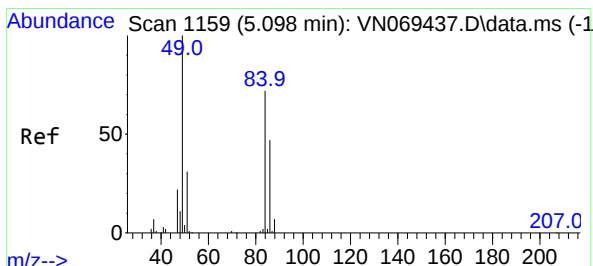
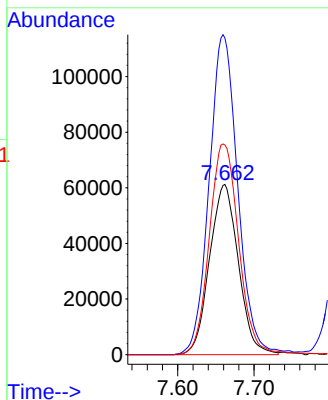
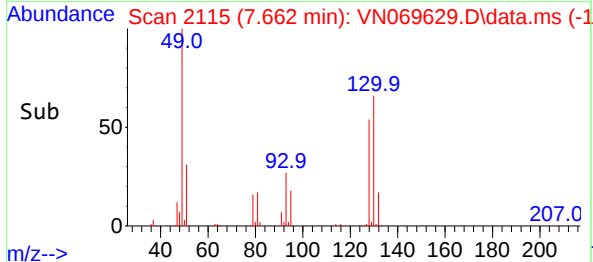
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-3



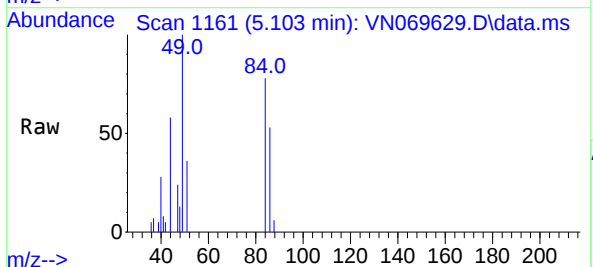
Tgt Ion: 128 Resp: 16065  
Ion Ratio Lower Upper  
128 100  
49 185.0 0.0 392.3  
130 126.5 0.0 320.2

Manual Integrations  
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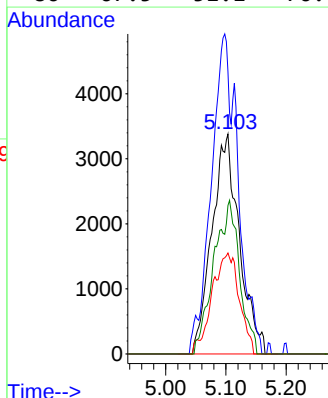
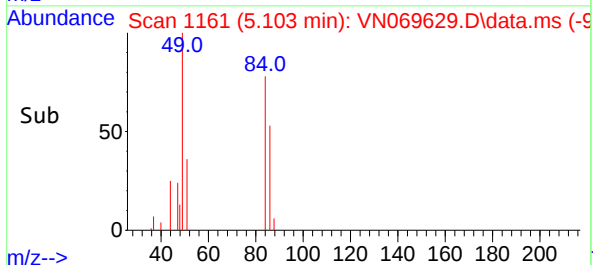
Reviewed By :John Carlone 11/24/2021  
Supervised By :Mahesh Dadoda 11/26/2021

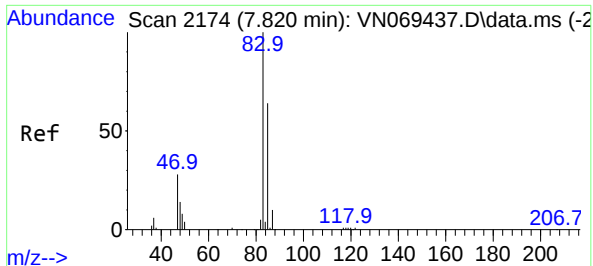


#18  
Methylene Chloride  
Concen: 1.045 ug/l m  
RT: 5.103 min Scan# 1161  
Delta R.T. 0.003 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23



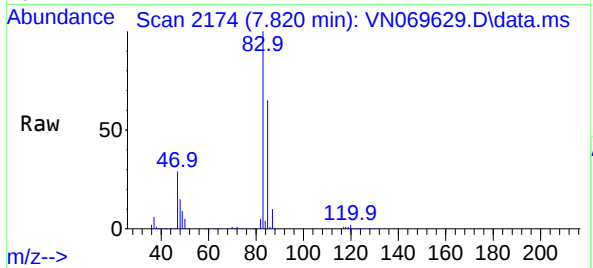
Tgt Ion: 84 Resp: 10688  
Ion Ratio Lower Upper  
84 100  
49 128.4 91.4 137.0  
51 45.9 29.4 44.0#  
86 67.5 51.1 76.7





#25  
Chloroform  
Concen: 70.376 ug/l  
RT: 7.820 min Scan# 2174  
Delta R.T. 0.000 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23

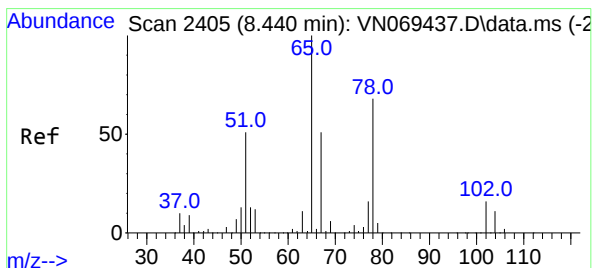
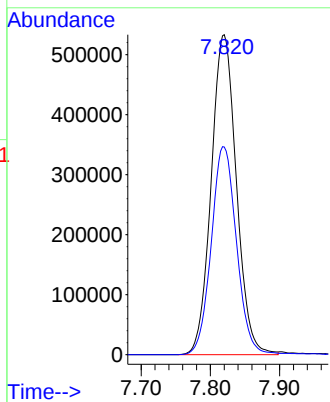
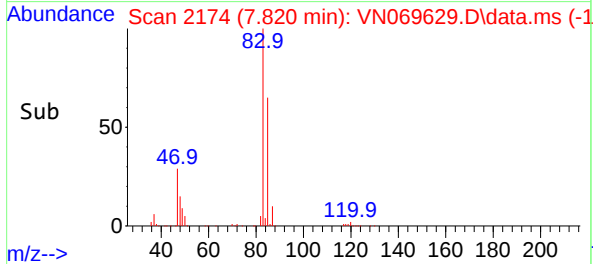
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-3



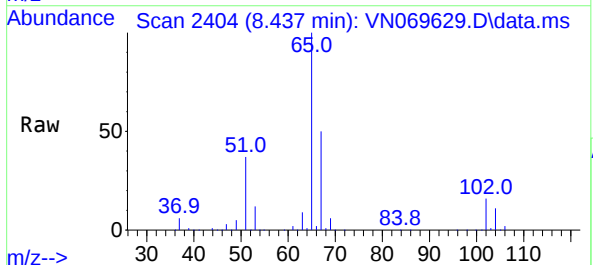
Tgt Ion: 83 Resp: 134976  
Ion Ratio Lower Upper  
83 100  
85 64.9 51.3 76.9

Manual Integrations  
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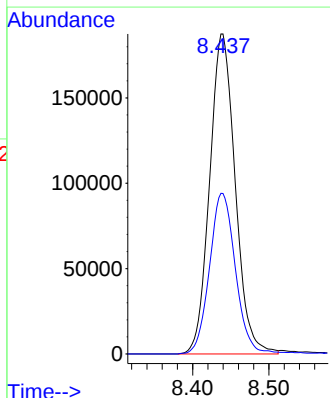
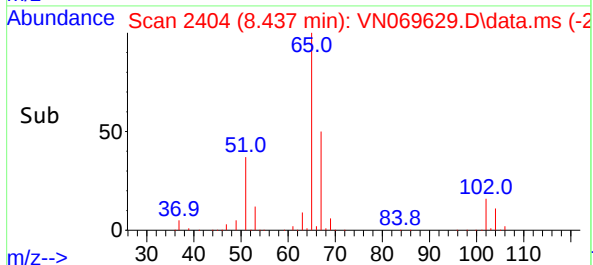
Reviewed By :John Carlone 11/24/2021  
Supervised By :Mahesh Dadoda 11/26/2021

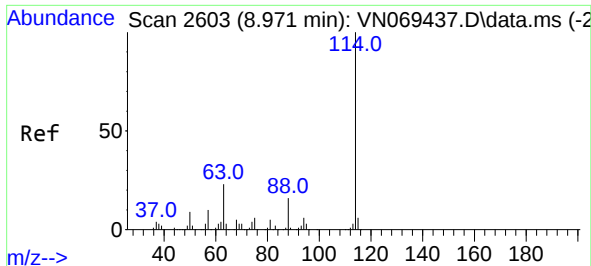


#27  
1,2-Dichloroethane-d4  
Concen: 31.319 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. -0.003 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23



Tgt Ion: 65 Resp: 436376  
Ion Ratio Lower Upper  
65 100  
67 50.5 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VN069629.D

Acq: 23 Nov 2021 16:23

Instrument :

MSVOA\_N

ClientSampleId :

14B-3

Tgt Ion:114 Resp: 871954

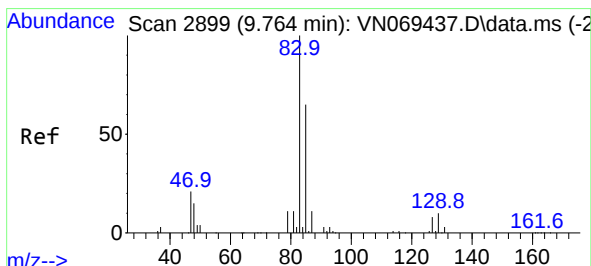
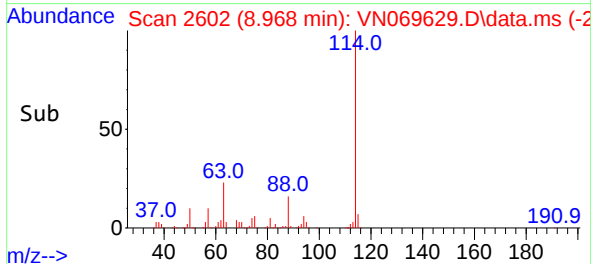
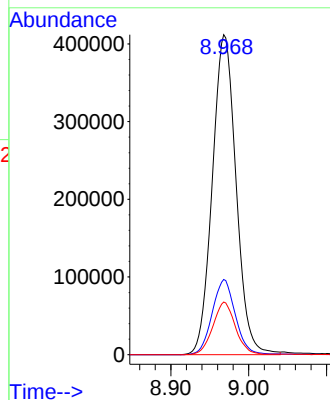
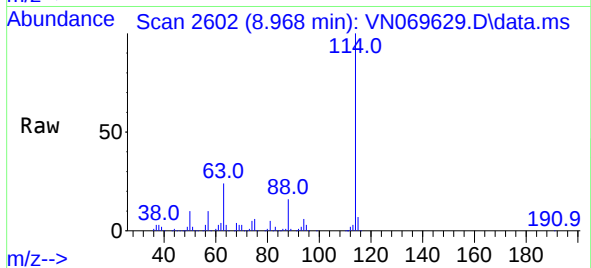
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 22.9  | 15.8  | 23.6  |
| 88  | 15.7  | 11.6  | 17.4  |

Manual Integrations

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#41

Bromodichloromethane

Concen: 5.562 ug/l

RT: 9.759 min Scan# 2897

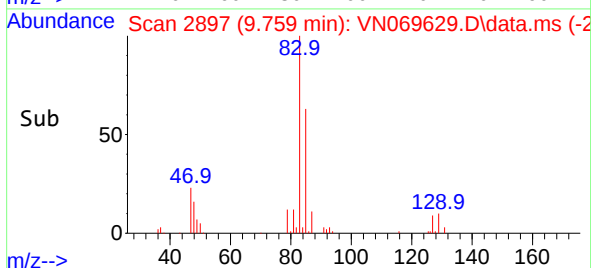
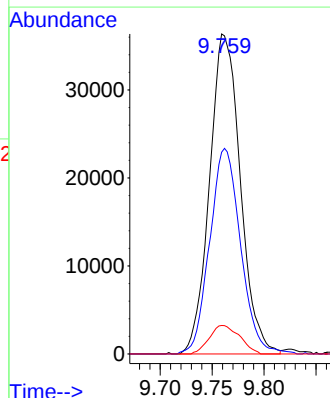
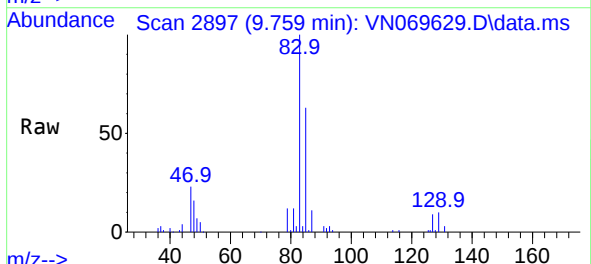
Delta R.T. -0.005 min

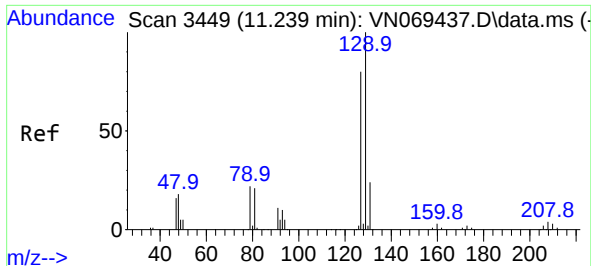
Lab File: VN069629.D

Acq: 23 Nov 2021 16:23

Tgt Ion: 83 Resp: 74960

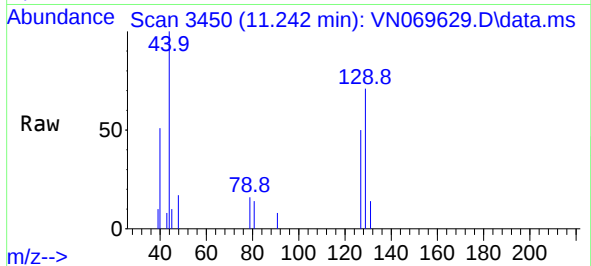
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 62.5  | 54.1  | 81.1  |
| 127 | 8.9   | 7.6   | 11.4  |





#53  
Dibromochloromethane  
Concen: 0.218 ug/l  
RT: 11.242 min Scan# 3449  
Delta R.T. 0.003 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23

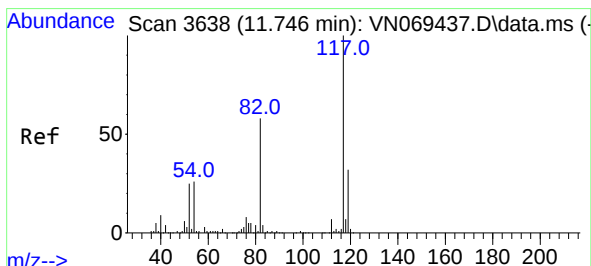
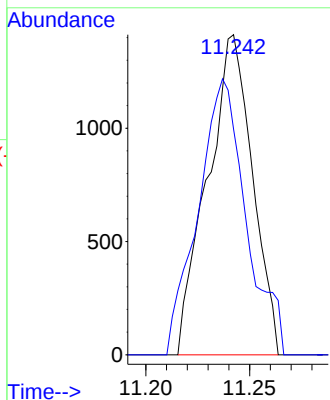
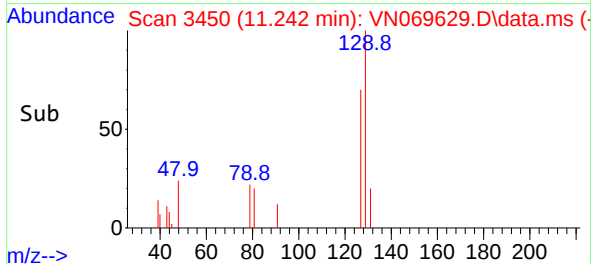
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-3



Tgt Ion:129 Resp: 2120  
Ion Ratio Lower Upper  
129 100  
127 92.1 39.0 117.0

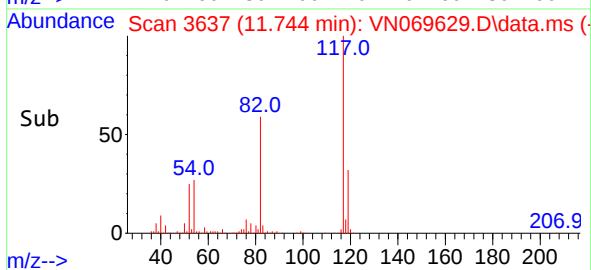
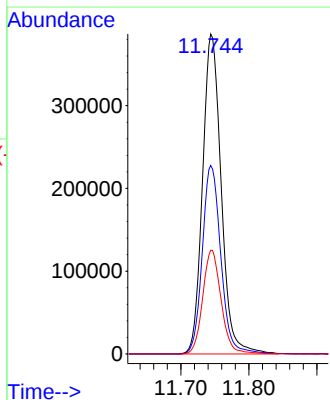
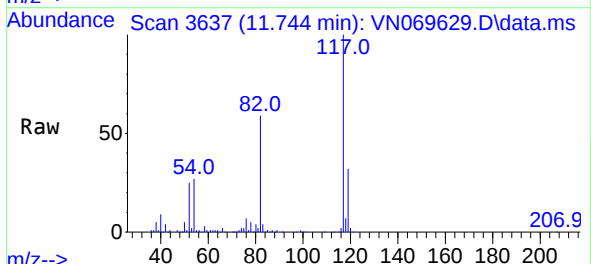
Manual Integrations  
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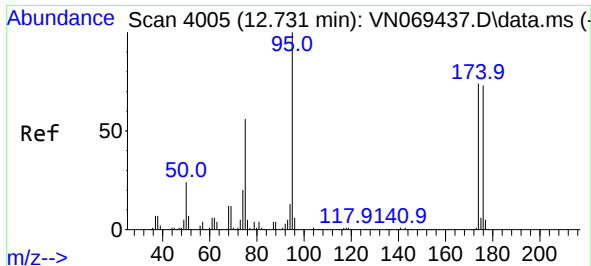
Reviewed By :John Carlone 11/24/2021  
Supervised By :Mahesh Dadoda 11/26/2021



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.003 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23

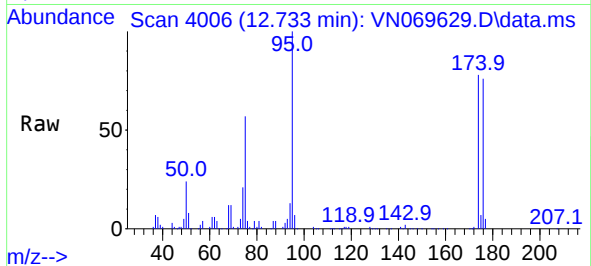
Tgt Ion:117 Resp: 737874  
Ion Ratio Lower Upper  
117 100  
82 58.7 43.6 65.4  
119 32.0 25.8 38.6





#60  
4-Bromofluorobenzene  
Concen: 23.657 ug/l  
RT: 12.733 min Scan# 4005  
Delta R.T. 0.000 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23

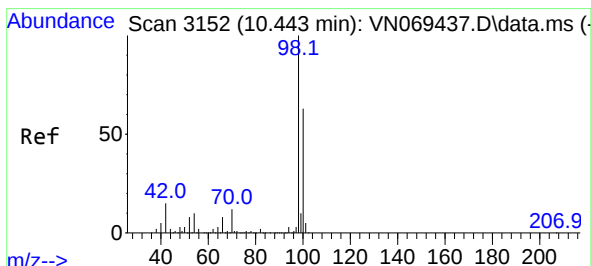
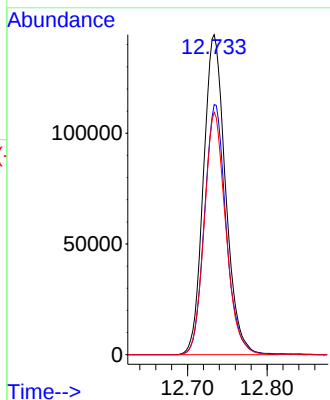
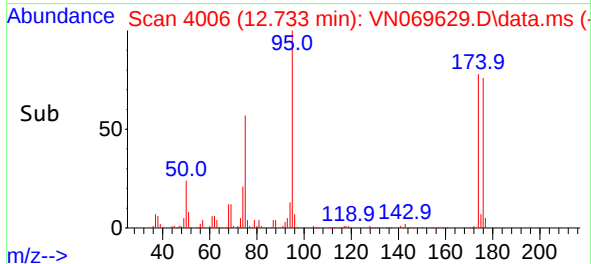
Instrument :  
MSVOA\_N  
ClientSampleId :  
14B-3



Tgt Ion: 95 Resp: 279344  
Ion Ratio Lower Upper  
95 100  
174 76.5 62.9 94.3  
176 73.8 61.0 91.4

Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 11/26/2021



#63  
Toluene-d8  
Concen: 31.226 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.003 min  
Lab File: VN069629.D  
Acq: 23 Nov 2021 16:23

Tgt Ion: 98 Resp: 1063845  
Ion Ratio Lower Upper  
98 100  
100 63.6 50.6 76.0

