

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050423\  
 Data File : VN077581.D  
 Acq On : 04 May 2023 16:12  
 Operator : JC\MD  
 Sample : 02566-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 AUD-1988

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 05/05/2023  
 Supervised By :Mahesh Dadoda 05/05/2023

Quant Time: May 05 04:10:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 2023  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.230          | 168  | 761118     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.107          | 114  | 1423005    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.866         | 117  | 1321085    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.795         | 152  | 549331     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.583          | 65   | 445456     | 44.852   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 89.700%  |        |          |
| 35) Dibromofluoromethane    | 8.172          | 113  | 435381     | 50.905   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 101.800% |        |          |
| 50) Toluene-d8              | 10.572         | 98   | 1716627    | 52.369   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 104.740% |        |          |
| 62) 4-Bromofluorobenzene    | 12.854         | 95   | 603756     | 56.296   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 112.600% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 16) Acetone                 | 4.437          | 43   | 192715     | 60.992   | ug/l   | 95       |
| 20) Methylene Chloride      | 5.284          | 84   | 91294      | 9.111    | ug/l # | 82       |
| 25) 2-Butanone              | 7.489          | 43   | 22879      | 5.105    | ug/l   | 95       |
| 37) Ethyl Acetate           | 7.572          | 43   | 89968      | 9.582    | ug/l # | 87       |
| 40) Benzene                 | 8.613          | 78   | 2149222    | 57.096   | ug/l   | 98       |
| 43) Isopropyl Acetate       | 8.695          | 43   | 404213     | 24.884   | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone    | 10.448         | 43   | 48160      | 5.055    | ug/l   | 93       |
| 52) Toluene                 | 10.630         | 92   | 1472832    | 59.726   | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.966         | 91   | 224107     | 4.554    | ug/l   | 97       |
| 68) m/p-Xylenes             | 12.071         | 106  | 479141     | 25.051   | ug/l   | 100      |
| 69) o-Xylene                | 12.401         | 106  | 450802     | 23.962   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene  | 13.177         | 105  | 114947     | 3.036    | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene  | 13.483         | 105  | 427807     | 12.101   | ug/l   | 92       |
| 95) Naphthalene             | 15.642         | 128  | 5298740m   | 131.018  | ug/l   |          |
| -----                       |                |      |            |          |        |          |

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

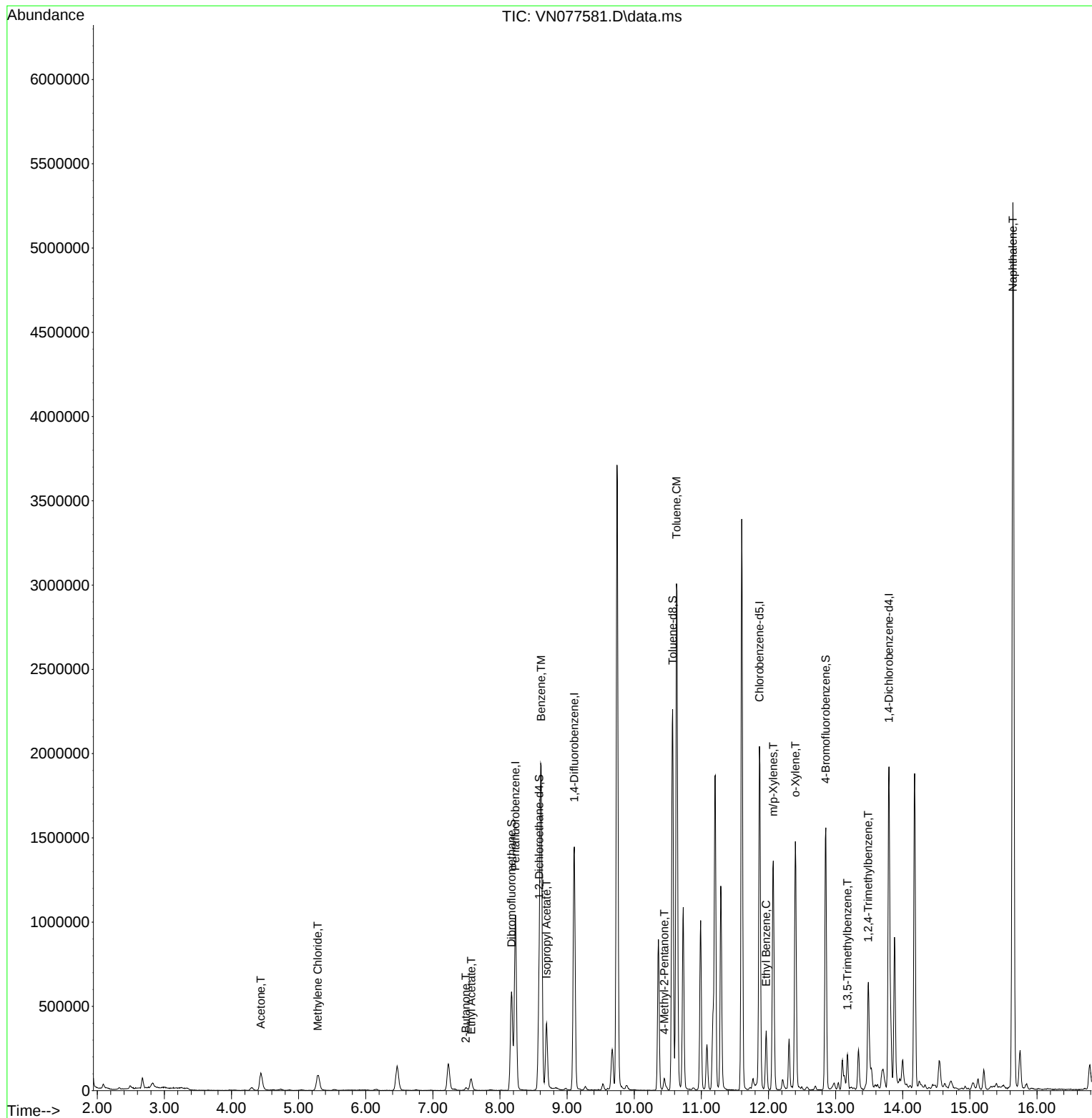
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050423\  
Data File : VN077581.D  
Acq On : 04 May 2023 16:12  
Operator : JC\MD  
Sample : 02566-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

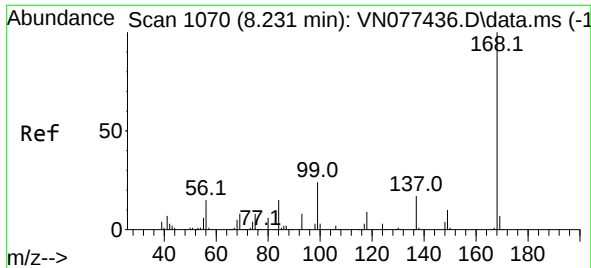
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988

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Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023

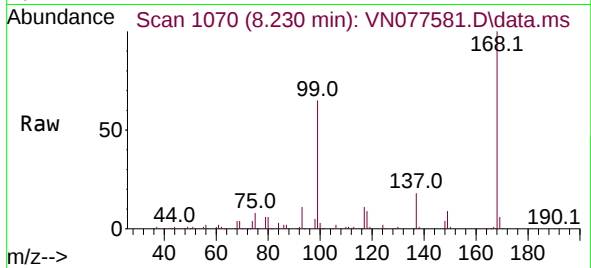
Quant Time: May 05 04:10:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 25 02:50:59 2023  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1070  
Delta R.T. -0.001 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

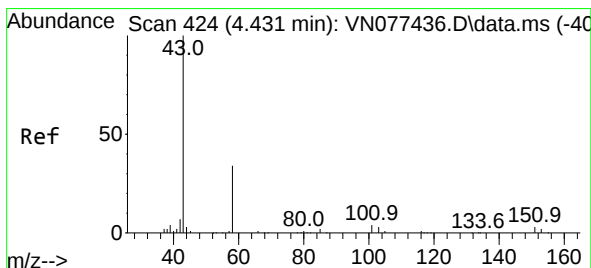
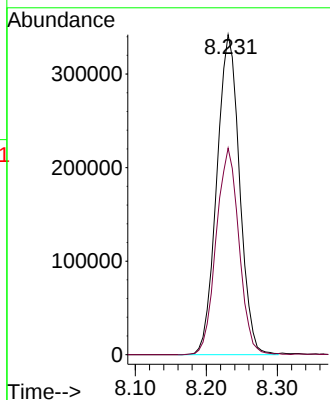
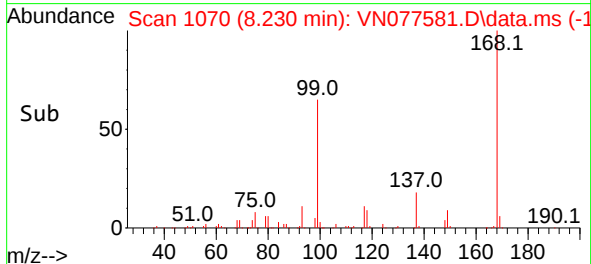
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



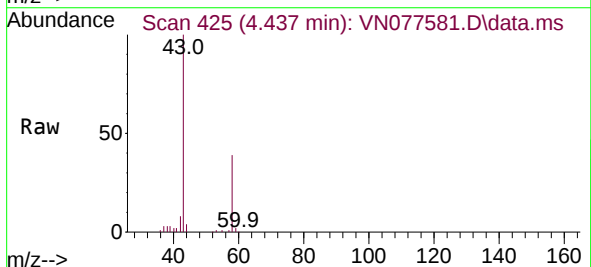
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Ion Ratio Lower Upper  
168 100  
99 64.6 53.0 79.6

Manual Integrations  
APPROVED

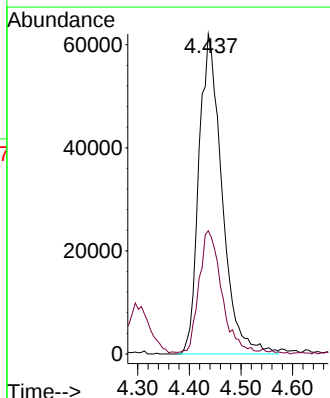
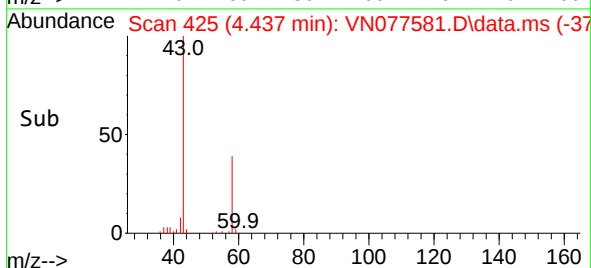
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023

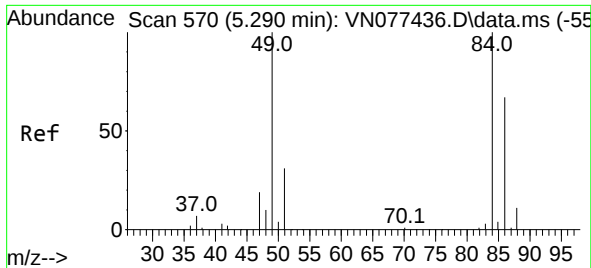


#16  
Acetone  
Concen: 60.992 ug/l  
RT: 4.437 min Scan# 425  
Delta R.T. 0.006 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12



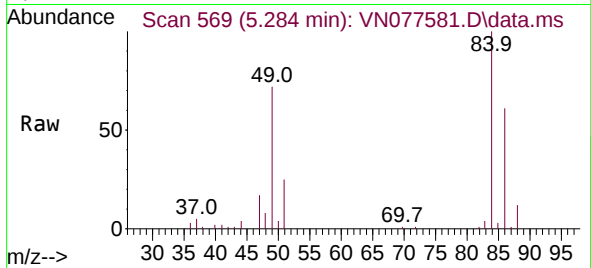
Tgt Ion: 43 Resp: 192715  
Ion Ratio Lower Upper  
43 100  
58 38.0 28.0 42.0





#20  
Methylene Chloride  
Concen: 9.111 ug/l  
RT: 5.284 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

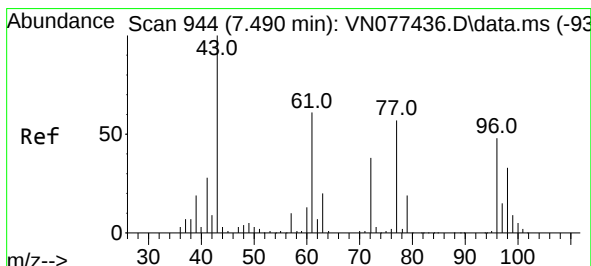
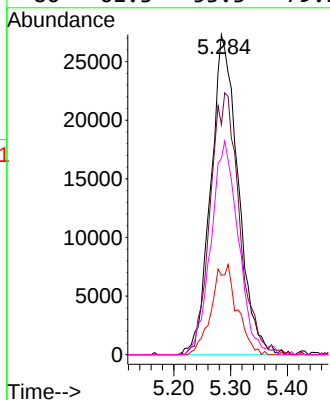
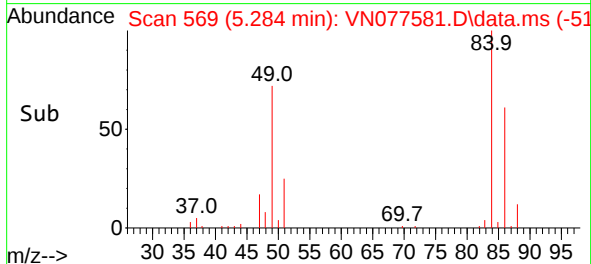
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



Tgt Ion: 84 Resp: 91294  
Ion Ratio Lower Upper  
84 100  
49 71.9 79.7 119.5  
51 24.9 25.2 37.8  
86 61.3 53.3 79.9

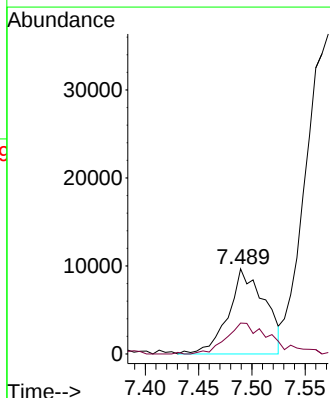
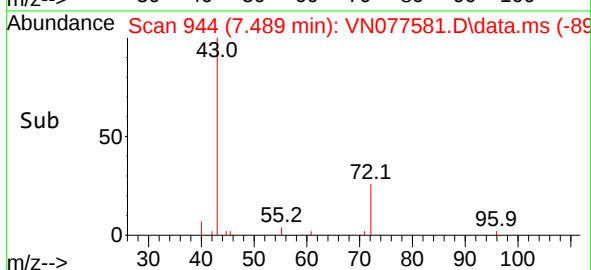
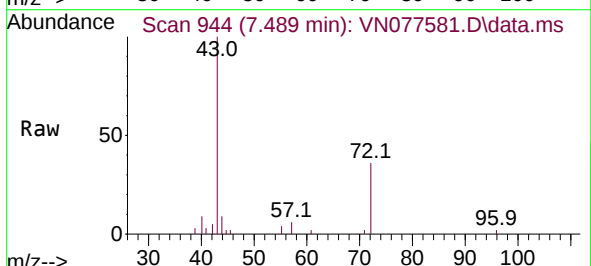
Manual Integrations  
APPROVED

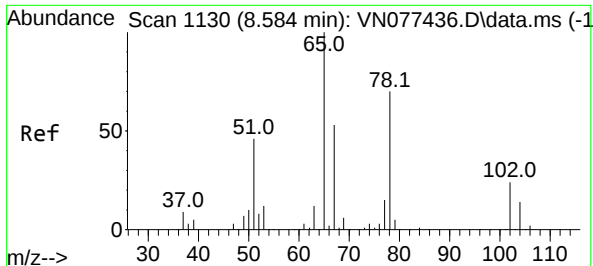
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023



#25  
2-Butanone  
Concen: 5.105 ug/l  
RT: 7.489 min Scan# 944  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

Tgt Ion: 43 Resp: 22879  
Ion Ratio Lower Upper  
43 100  
72 34.5 30.2 45.2





#33

1,2-Dichloroethane-d4

Concen: 44.852 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077581.D

Acq: 04 May 2023 16:12

Instrument :

MSVOA\_N

ClientSampleId :

AUD-1988

Tgt Ion: 65 Resp: 445450

Ion Ratio Lower Upper

65 100

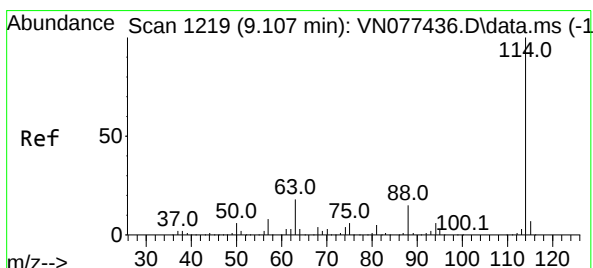
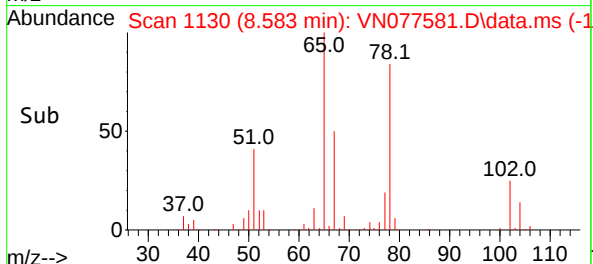
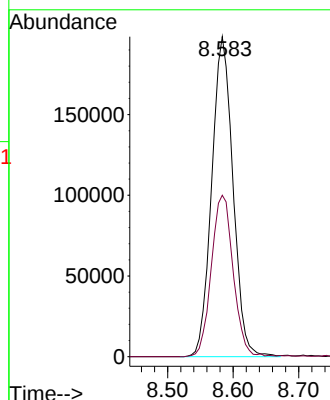
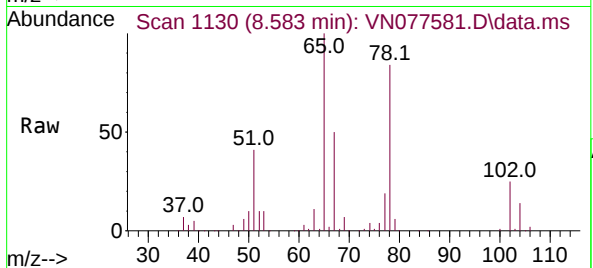
67 51.9 0.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/05/2023

Supervised By :Mahesh Dadoda 05/05/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077581.D

Acq: 04 May 2023 16:12

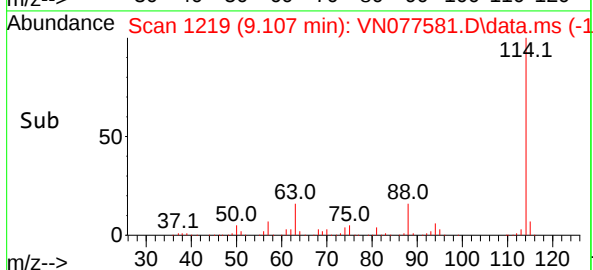
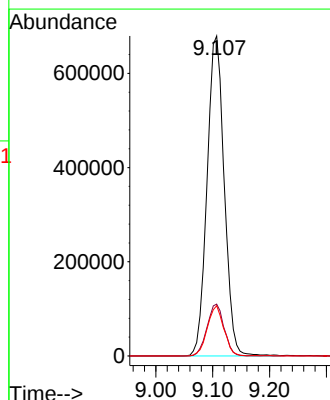
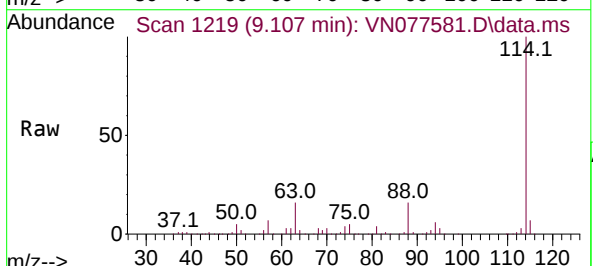
Tgt Ion:114 Resp: 1423005

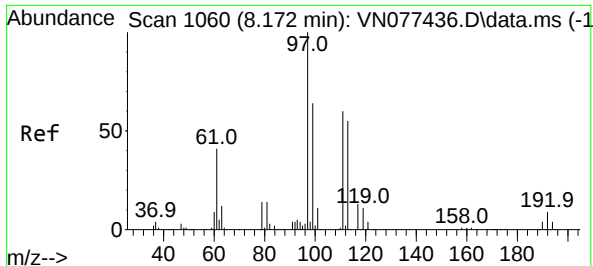
Ion Ratio Lower Upper

114 100

63 16.2 0.0 36.4

88 15.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.905 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077581.D

Acq: 04 May 2023 16:12

Instrument :

MSVOA\_N

ClientSampleId :

AUD-1988

Tgt Ion: 113 Resp: 43538

Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

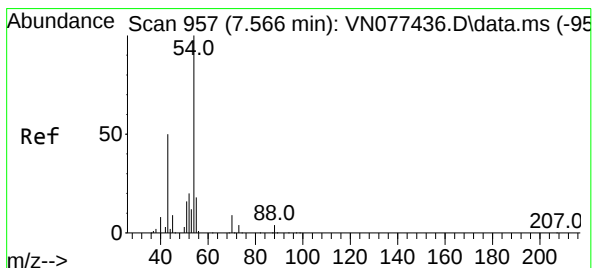
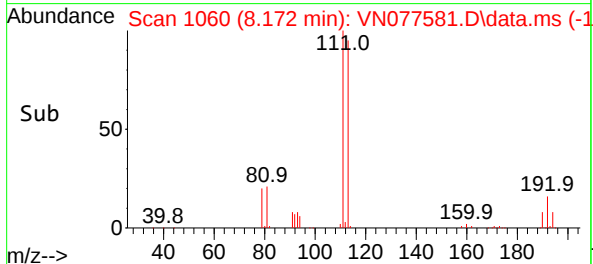
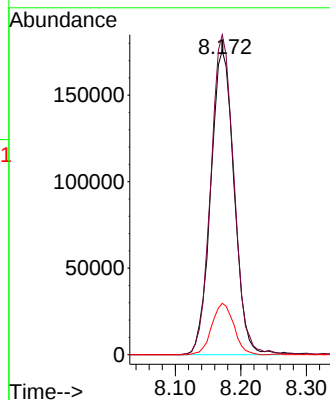
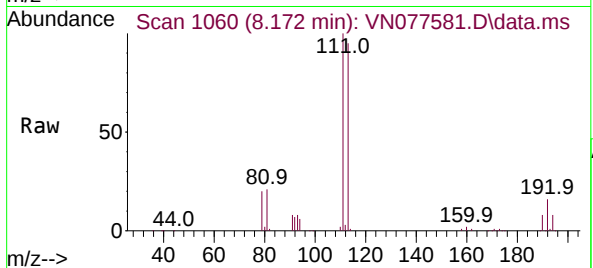
192 15.9 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/05/2023

Supervised By :Mahesh Dadoda 05/05/2023



#37

Ethyl Acetate

Concen: 9.582 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077581.D

Acq: 04 May 2023 16:12

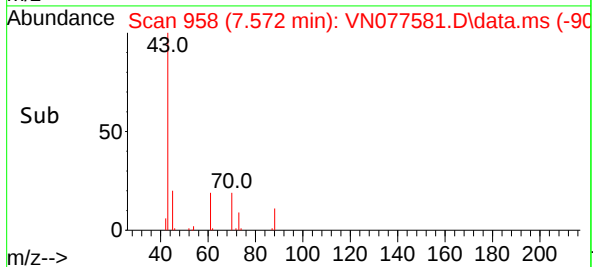
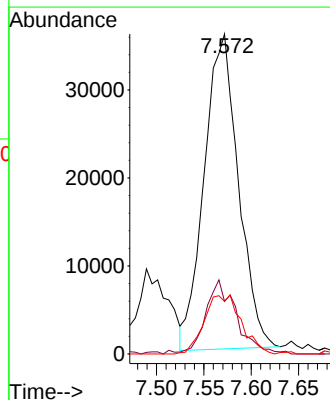
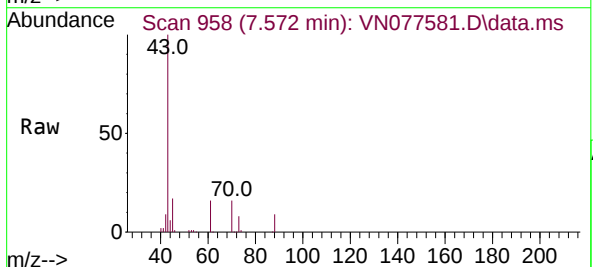
Tgt Ion: 43 Resp: 89968

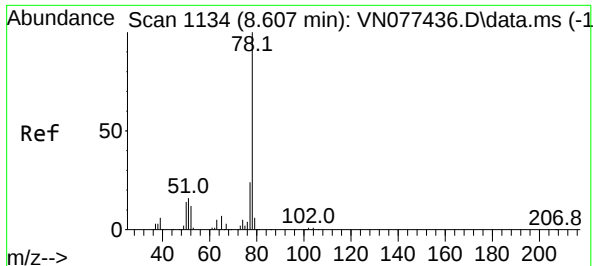
Ion Ratio Lower Upper

43 100

61 21.4 13.2 19.8#

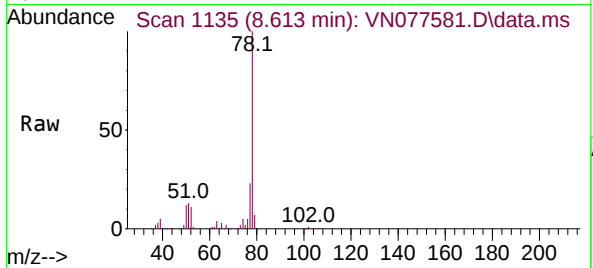
70 20.1 11.3 16.9#





#40  
Benzene  
Concen: 57.096 ug/l  
RT: 8.613 min Scan# 1135  
Delta R.T. 0.006 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

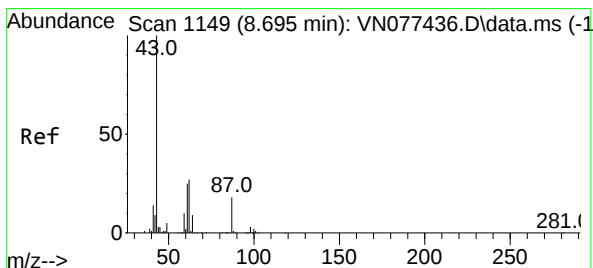
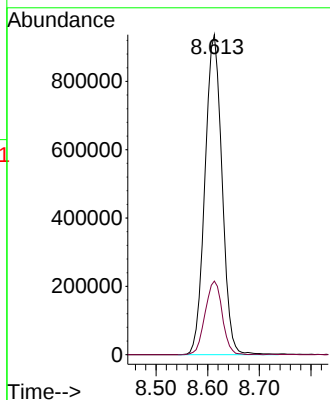
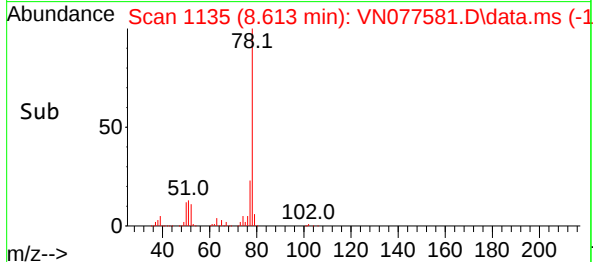
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



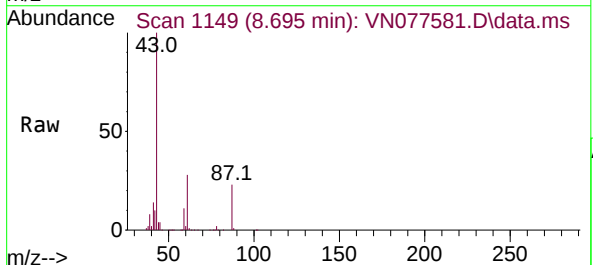
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Ion Ratio Lower Upper  
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77 23.0 19.0 28.6

Manual Integrations  
APPROVED

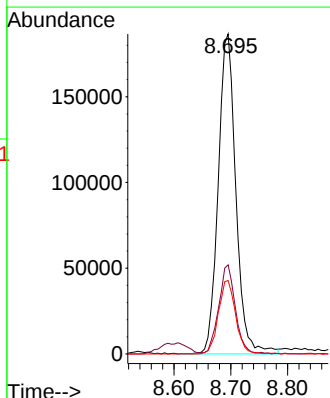
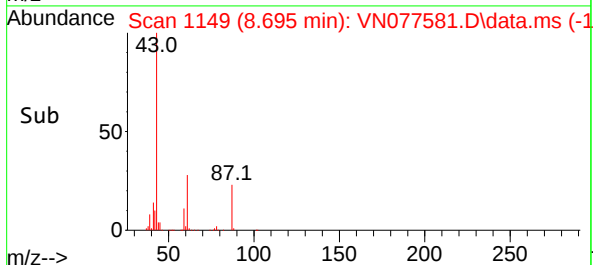
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023

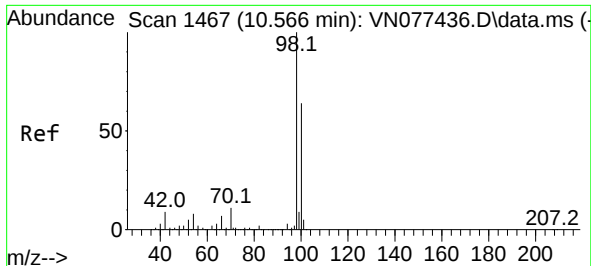


#43  
Isopropyl Acetate  
Concen: 24.884 ug/l  
RT: 8.695 min Scan# 1149  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12



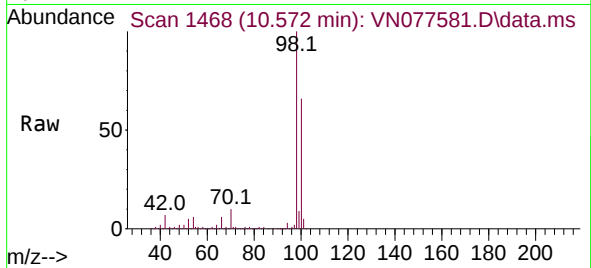
Tgt Ion: 43 Resp: 404213  
Ion Ratio Lower Upper  
43 100  
61 25.8 24.7 37.1  
87 22.3 14.6 21.8





#50  
Toluene-d8  
Concen: 52.369 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.006 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

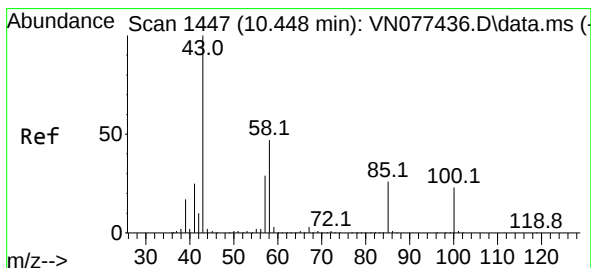
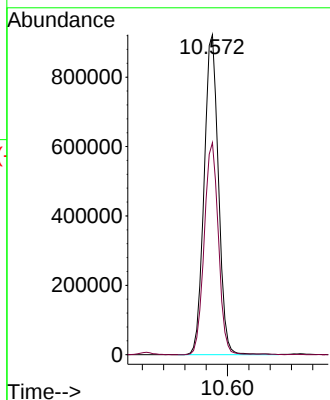
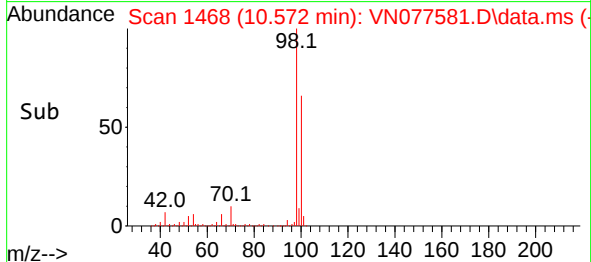
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



Tgt Ion: 98 Resp: 171662  
Ion Ratio Lower Upper  
98 100  
100 65.6 52.0 78.0

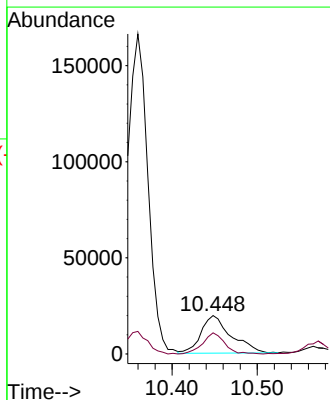
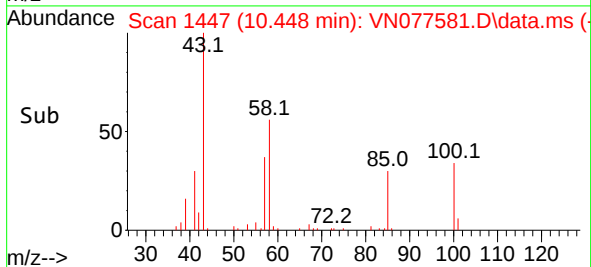
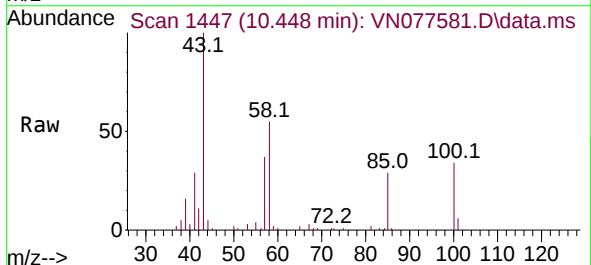
Manual Integrations  
APPROVED

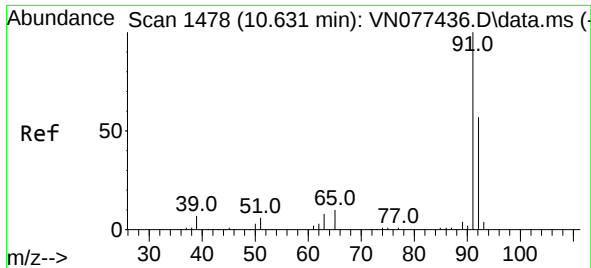
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023



#51  
4-Methyl-2-Pentanone  
Concen: 5.055 ug/l  
RT: 10.448 min Scan# 1447  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

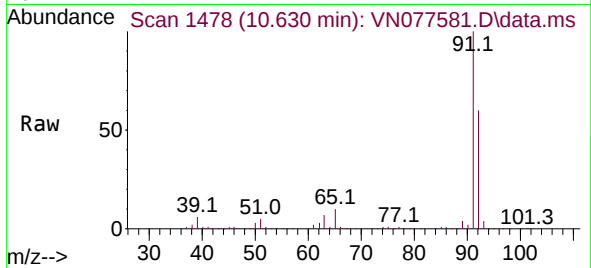
Tgt Ion: 43 Resp: 48160  
Ion Ratio Lower Upper  
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58 40.8 36.6 54.8





#52  
Toluene  
Concen: 59.726 ug/l  
RT: 10.630 min Scan# 1478  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

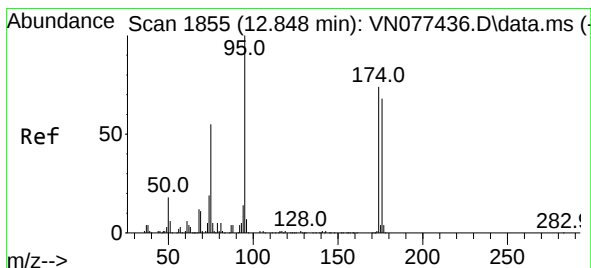
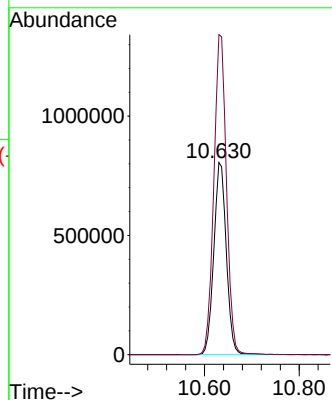
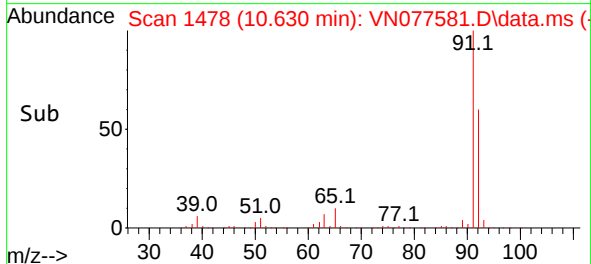
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



Tgt Ion: 92 Resp: 147283  
Ion Ratio Lower Upper  
92 100  
91 168.8 137.4 206.0

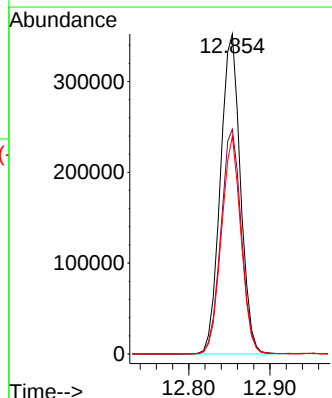
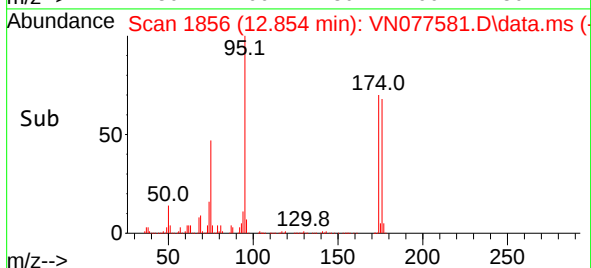
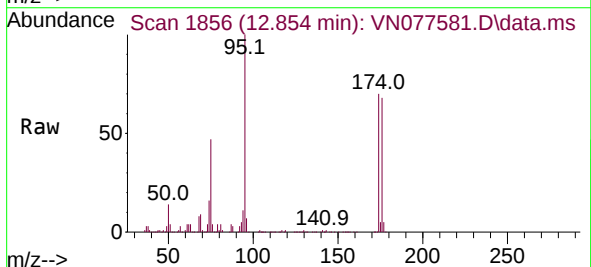
Manual Integrations  
APPROVED

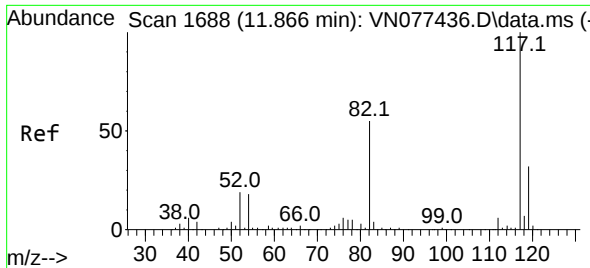
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023



#62  
4-Bromofluorobenzene  
Concen: 56.296 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

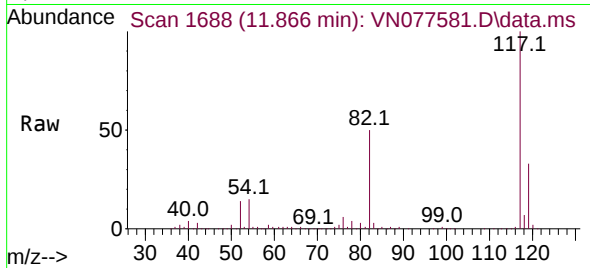
Tgt Ion: 95 Resp: 603756  
Ion Ratio Lower Upper  
95 100  
174 71.3 0.0 143.8  
176 66.6 0.0 135.8





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.866 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

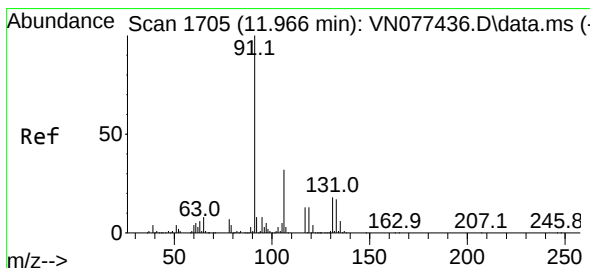
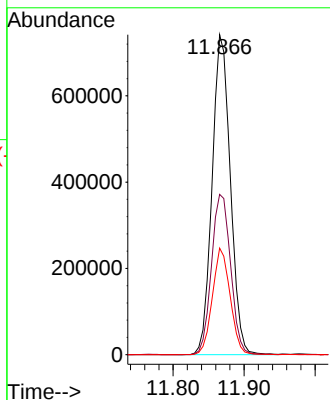
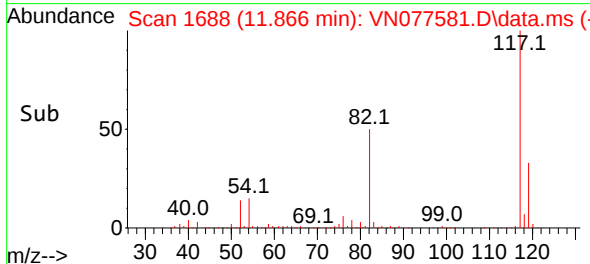
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



Tgt Ion: 117 Resp: 132108  
Ion Ratio Lower Upper  
117 100  
82 50.1 44.0 66.0  
119 33.3 25.6 38.4

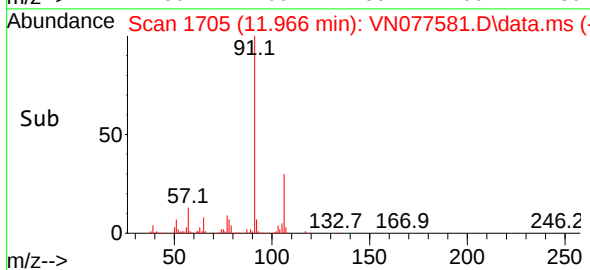
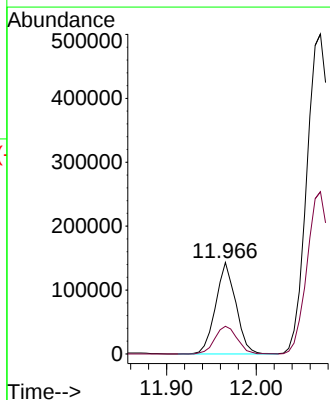
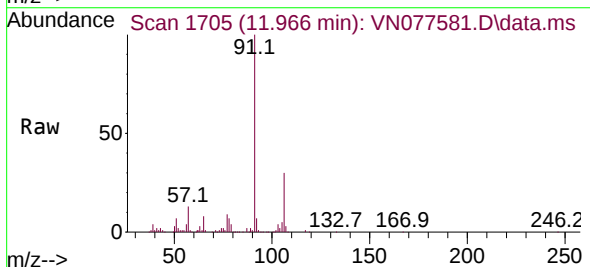
Manual Integrations  
APPROVED

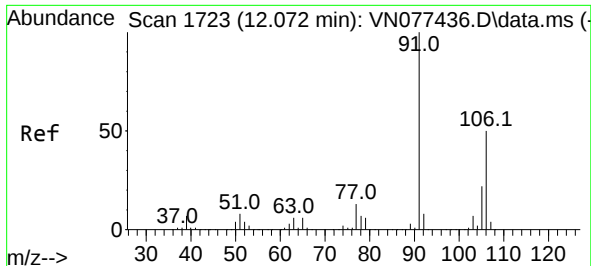
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023



#67  
Ethyl Benzene  
Concen: 4.554 ug/l  
RT: 11.966 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

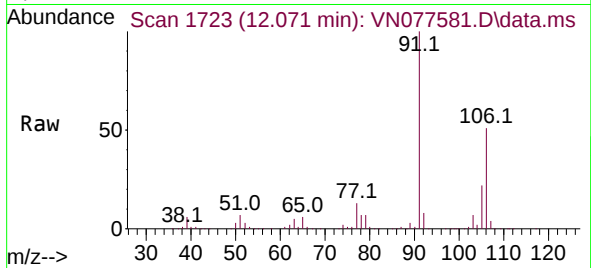
Tgt Ion: 91 Resp: 224107  
Ion Ratio Lower Upper  
91 100  
106 30.3 25.6 38.4





#68  
m/p-Xylenes  
Concen: 25.051 ug/l  
RT: 12.071 min Scan# 1723  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

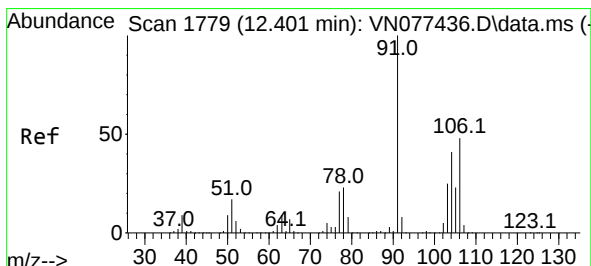
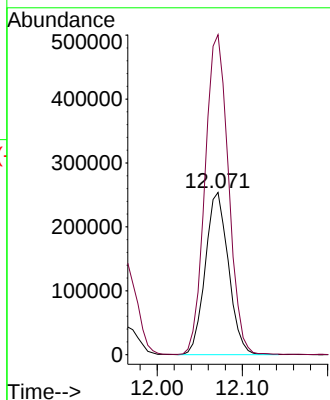
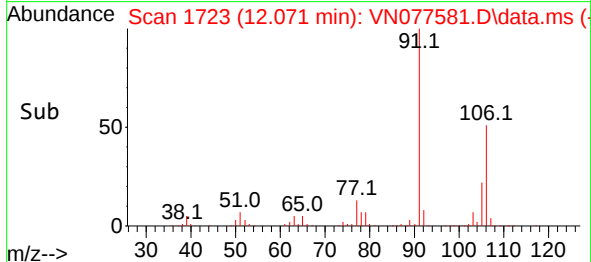
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



Tgt Ion:106 Resp: 47914  
Ion Ratio Lower Upper  
106 100  
91 199.8 159.6 239.4

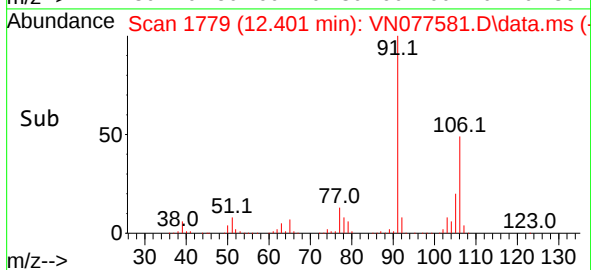
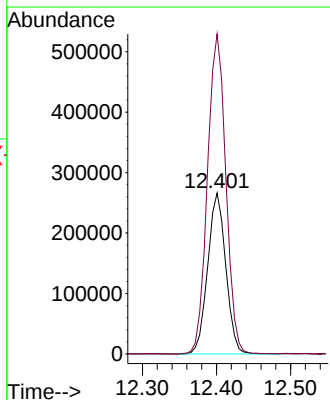
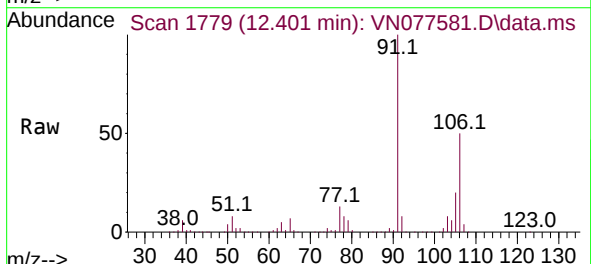
Manual Integrations  
APPROVED

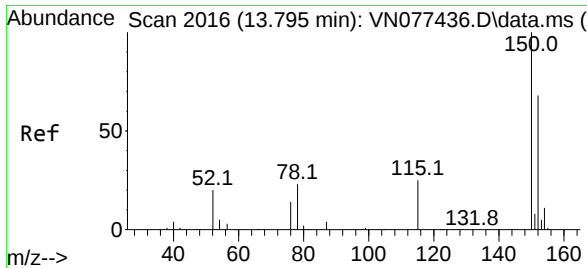
Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023



#69  
o-Xylene  
Concen: 23.962 ug/l  
RT: 12.401 min Scan# 1779  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

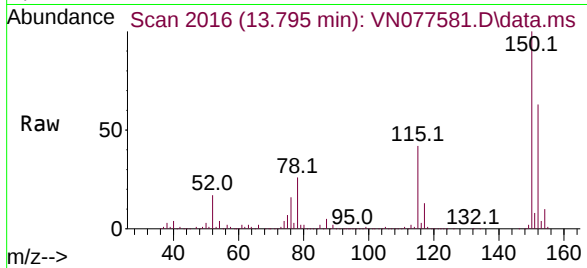
Tgt Ion:106 Resp: 450802  
Ion Ratio Lower Upper  
106 100  
91 202.6 105.2 315.5





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.795 min Scan# 2016  
 Delta R.T. -0.000 min  
 Lab File: VN077581.D  
 Acq: 04 May 2023 16:12

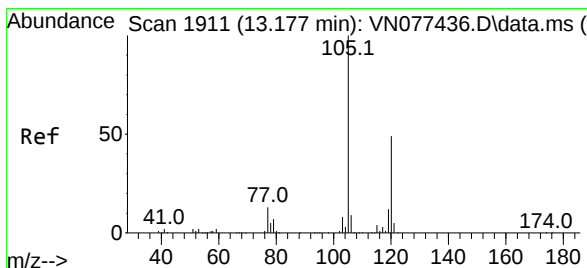
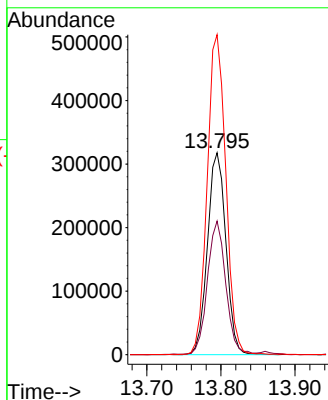
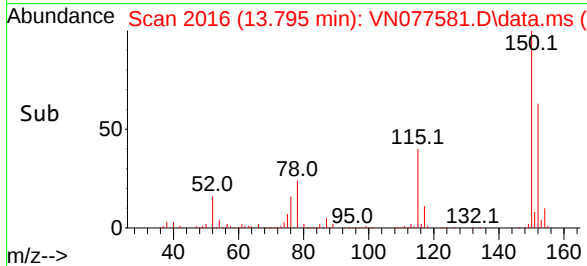
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 AUD-1988



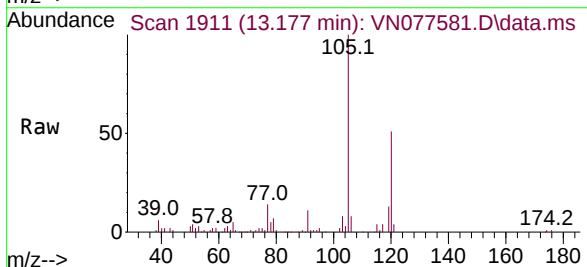
Tgt Ion:152 Resp: 54933  
 Ion Ratio Lower Upper  
 152 100  
 115 66.4 32.3 96.8  
 150 159.8 0.0 355.8

Manual Integrations  
 APPROVED

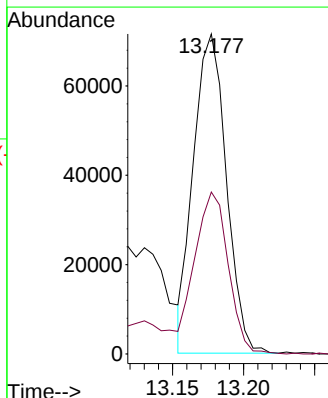
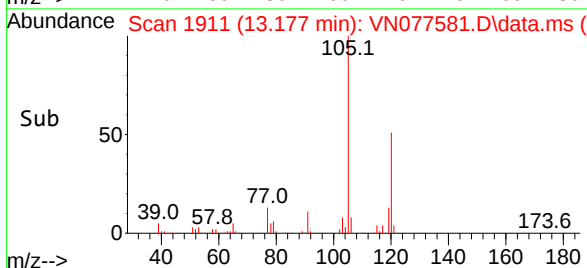
Reviewed By :John Carlone 05/05/2023  
 Supervised By :Mahesh Dadoda 05/05/2023

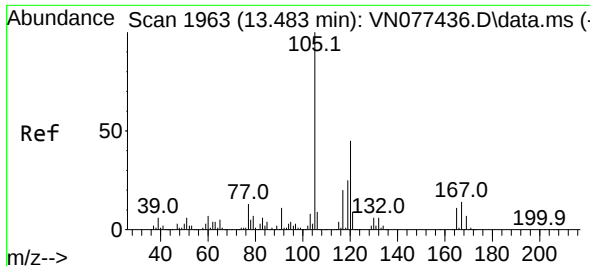


#80  
 1,3,5-Trimethylbenzene  
 Concen: 3.036 ug/l  
 RT: 13.177 min Scan# 1911  
 Delta R.T. 0.000 min  
 Lab File: VN077581.D  
 Acq: 04 May 2023 16:12



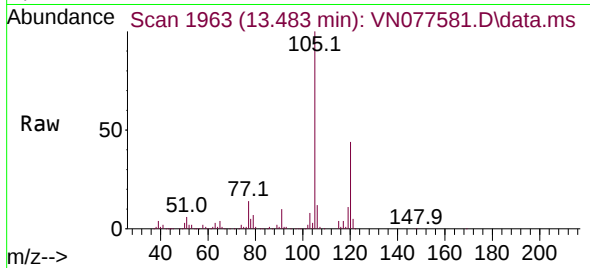
Tgt Ion:105 Resp: 114947  
 Ion Ratio Lower Upper  
 105 100  
 120 54.8 24.1 72.3





#84  
1,2,4-Trimethylbenzene  
Concen: 12.101 ug/l  
RT: 13.483 min Scan# 1963  
Delta R.T. -0.000 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12

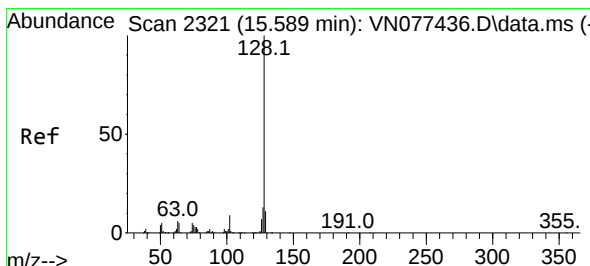
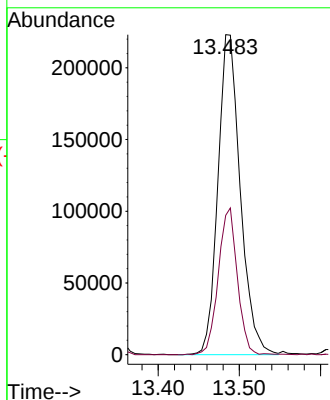
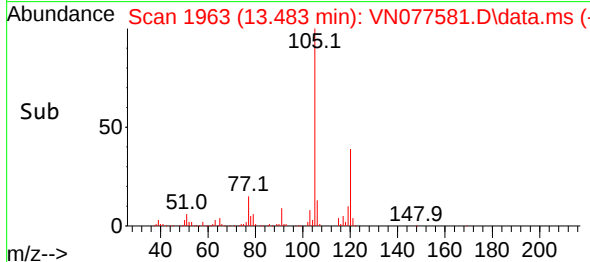
Instrument :  
MSVOA\_N  
ClientSampleId :  
AUD-1988



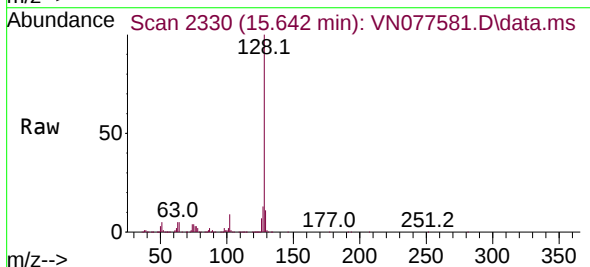
Tgt Ion:105 Resp: 42780  
Ion Ratio Lower Upper  
105 100  
120 39.1 22.0 66.0

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/05/2023  
Supervised By :Mahesh Dadoda 05/05/2023



#95  
Naphthalene  
Concen: 131.018 ug/l m  
RT: 15.642 min Scan# 2330  
Delta R.T. 0.053 min  
Lab File: VN077581.D  
Acq: 04 May 2023 16:12



Tgt Ion:128 Resp: 5298740  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.0 15.0#  
129 0.0 8.7 13.1#

