

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081821\  
 Data File : VU044449.D  
 Acq On : 18 Aug 2021 16:10  
 Operator : SY/MD  
 Sample : M3395-14  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 X3622

Manual Integrations  
 APPROVED

MMDadoda  
 8/19/2021 3:31:33 PM

Quant Time: Aug 19 04:04:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR081821WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Aug 19 03:54:51 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.256  | 114   | 125815   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.423  | 117   | 126277   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.819 | 152   | 62104    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 43793    | 4.304    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 86.000%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 39811    | 4.502    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 90.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.571  | 65    | 20074    | 4.638    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 92.800%  |
| 20) 2-Butanone-d5             | 4.642  | 46    | 135490m  | 48.146   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 96.300%  |
| 24) Chloroform-d              | 5.070  | 84    | 77082    | 4.284    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 85.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.710  | 65    | 45265    | 4.613    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 92.200%  |
| 32) Benzene-d6                | 5.735  | 84    | 167946   | 4.723    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.700  | 67    | 51679    | 4.543    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 90.800%  |
| 41) Toluene-d8                | 7.906  | 98    | 150860   | 4.785    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 95.600%  |
| 43) trans-1,3-Dichloroprop... | 8.189  | 79    | 18526    | 4.535    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 90.600%  |
| 46) 2-Hexanone-d5             | 8.645  | 63    | 109841   | 49.719   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 99.440%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.764 | 84    | 42040    | 4.388    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 87.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.201 | 152   | 48984    | 4.668    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 93.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Bromomethane               | 1.861  | 94    | 16246    | 1.907    | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.584  | 96    | 19677    | 2.035    | ug/L # | 58       |
| 13) Acetone                   | 2.649  | 43    | 151827m  | 64.972   | ug/L   |          |
| 14) Carbon disulfide          | 2.800  | 76    | 266835   | 8.508    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.960  | 43    | 140993   | 36.941   | ug/L   | 95       |
| 16) Methylene chloride        | 3.054  | 84    | 66225    | 4.610    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.372  | 73    | 284077   | 11.360   | ug/L   | 100      |
| 21) 2-Butanone                | 4.722  | 43    | 146004m  | 43.844   | ug/L   |          |
| 22) cis-1,2-Dichloroethene    | 4.674  | 96    | 70606    | 6.555    | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.803  | 62    | 71084    | 5.318    | ug/L   | 99       |
| 30) Cyclohexane               | 5.394  | 56    | 199130   | 11.398   | ug/L   | 99       |
| 33) Benzene                   | 5.780  | 78    | 223303   | 5.212    | ug/L   | 100      |
| 34) Trichloroethene           | 6.549  | 95    | 38457    | 3.631    | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.771  | 83    | 372778   | 21.102   | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.803  | 43    | 226507   | 29.736   | ug/L   | 99       |
| 42) Toluene                   | 7.976  | 91    | 736393   | 16.501   | ug/L   | 100      |
| 47) Tetrachloroethene         | 8.562  | 164   | 35462    | 4.842    | ug/L   | 96       |
| 48) 2-Hexanone                | 8.697  | 43    | 157397   | 28.959   | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.931  | 107   | 15001    | 1.960    | ug/L   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081821\  
Data File : VU044449.D  
Acq On : 18 Aug 2021 16:10  
Operator : SY/MD  
Sample : M3395-14  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
X3622

Manual Integrations  
APPROVED

MMDadoda  
8/19/2021 3:31:33 PM

Quant Time: Aug 19 04:04:24 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR081821WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Aug 19 03:54:51 2021  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| 52) Ethylbenzene        | 9.578  | 91   | 491988   | 10.436 | ug/L  | 100      |
| 53) m,p-Xylene          | 9.703  | 106  | 160431   | 9.052  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene | 11.751 | 146  | 125146   | 6.288  | ug/L  | 99       |

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

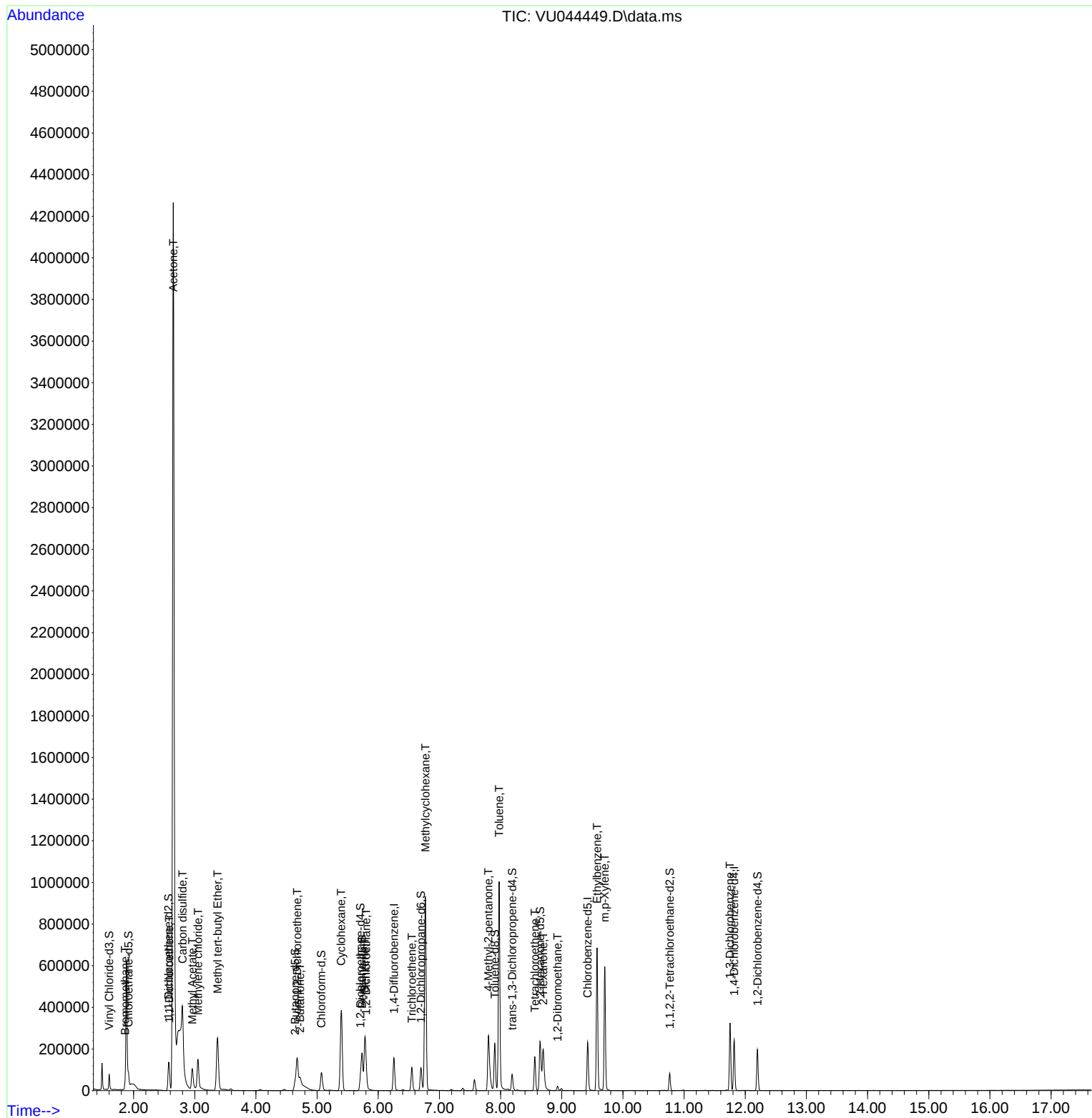
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081821\  
Data File : VU044449.D  
Acq On : 18 Aug 2021 16:10  
Operator : SY/MD  
Sample : M3395-14  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

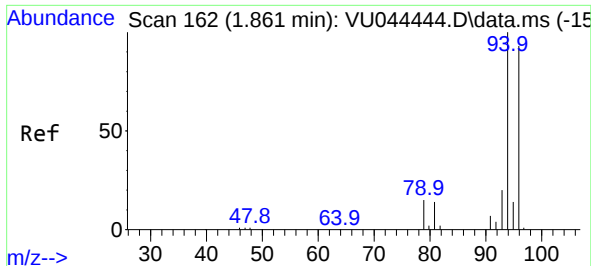
Instrument :  
MSVOA\_U  
ClientSampleId :  
X3622

Manual Integrations  
APPROVED

MMDadoda  
8/19/2021 3:31:33 PM

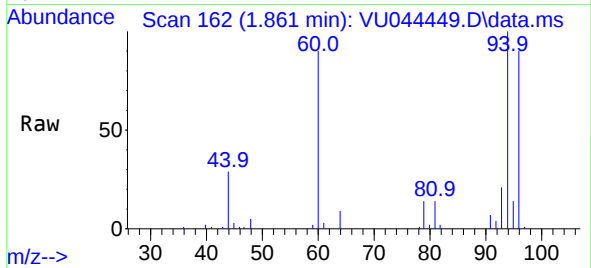
Quant Time: Aug 19 04:04:24 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR081821WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Aug 19 03:54:51 2021  
Response via : Initial Calibration





#6  
Bromomethane  
Concen: 1.907 ug/L  
RT: 1.861 min Scan# 162  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

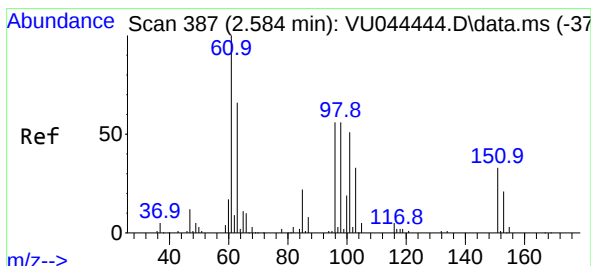
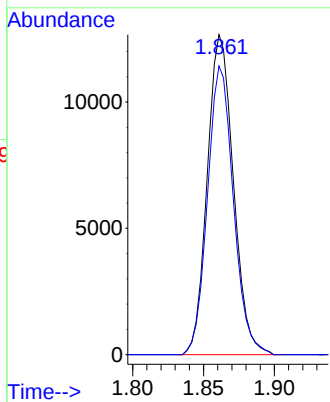
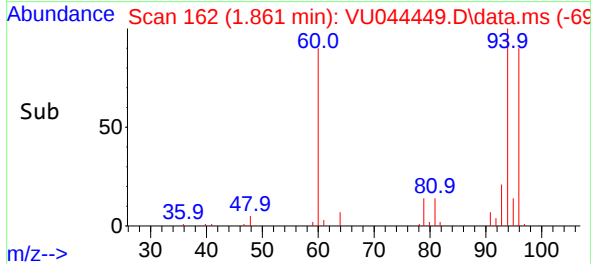
Instrument :  
MSVOA\_U  
ClientSampled :  
X3622



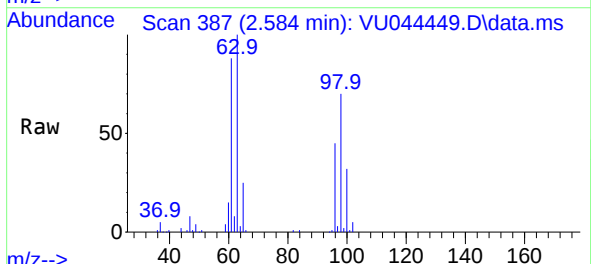
Tgt Ion: 94 Resp: 16246  
Ion Ratio Lower Upper  
94 100  
96 90.2 65.2 121.2

Manual Integrations  
APPROVED

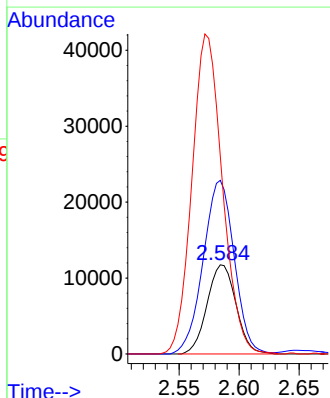
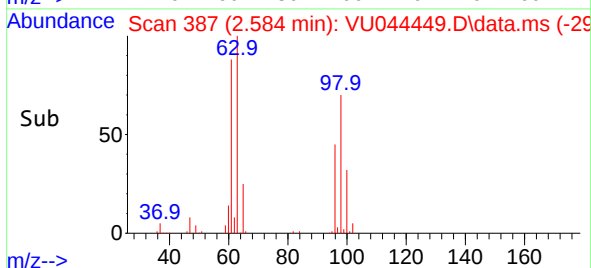
MMDadoda  
8/19/2021 3:31:33 PM

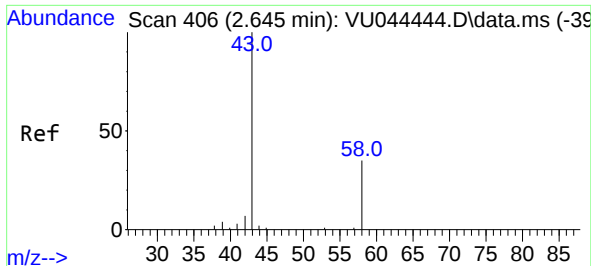


#12  
1,1-Dichloroethene  
Concen: 2.035 ug/L  
RT: 2.584 min Scan# 387  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



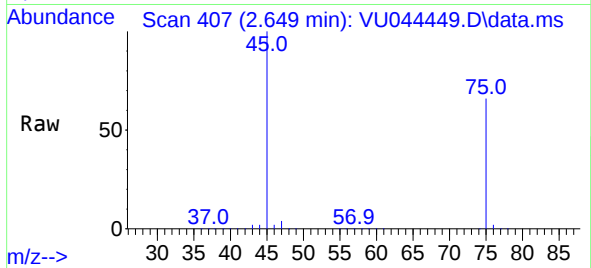
Tgt Ion: 96 Resp: 19677  
Ion Ratio Lower Upper  
96 100  
61 194.7 126.1 234.3  
63 222.0 84.8 157.6#





#13  
Acetone  
Concen: 64.972 ug/L m  
RT: 2.649 min Scan# 407  
Delta R.T. 0.003 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

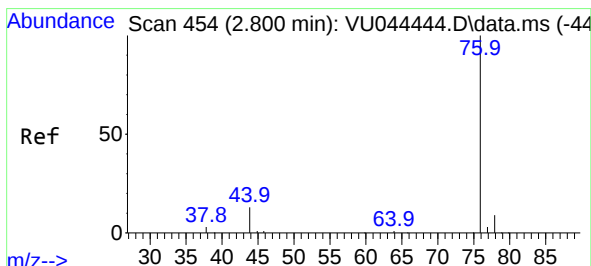
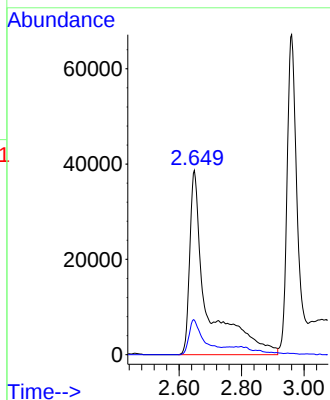
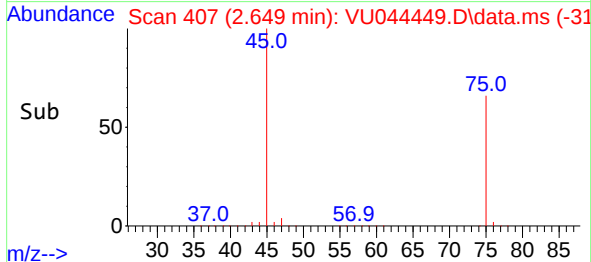
Instrument :  
MSVOA\_U  
ClientSampled :  
X3622



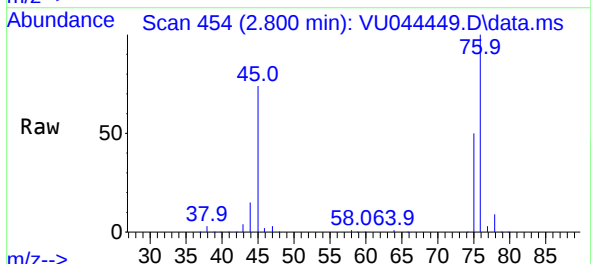
Tgt Ion: 43 Resp: 151827  
Ion Ratio Lower Upper  
43 100  
58 16.0 0.0 45.4

Manual Integrations  
APPROVED

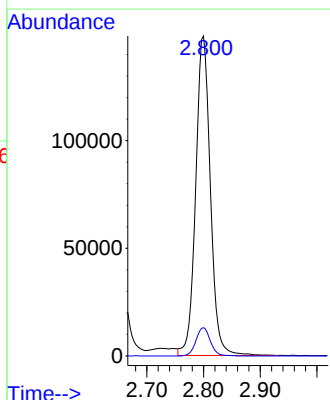
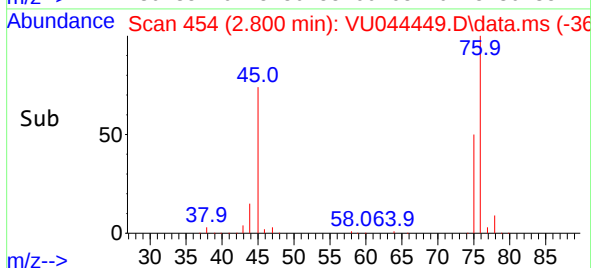
MMDadoda  
8/19/2021 3:31:33 PM

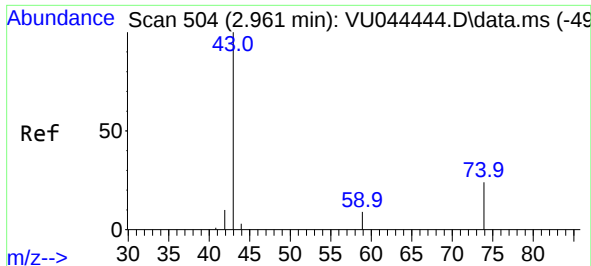


#14  
Carbon disulfide  
Concen: 8.508 ug/L  
RT: 2.800 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



Tgt Ion: 76 Resp: 266835  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.2 10.8





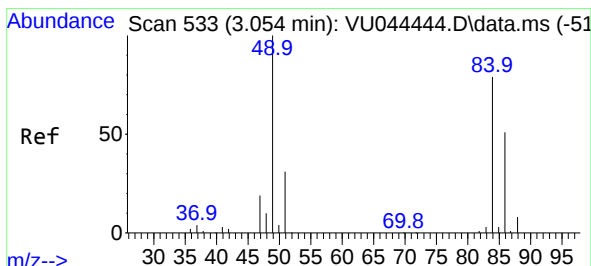
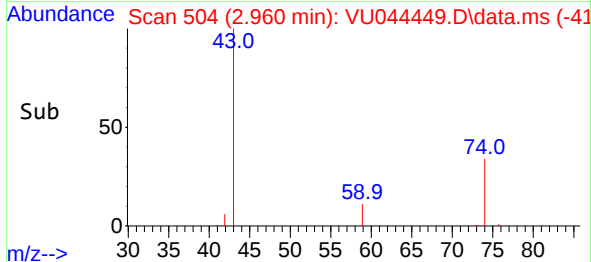
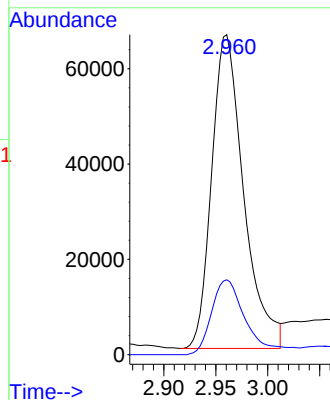
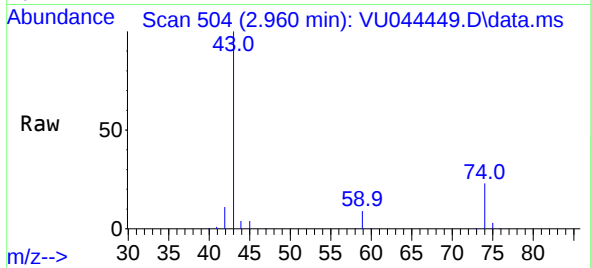
#15  
Methyl Acetate  
Concen: 36.941 ug/L  
RT: 2.960 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

Tgt Ion: 43 Resp: 140993  
Ion Ratio Lower Upper  
43 100  
74 26.2 19.0 28.4

Instrument :  
MSVOA\_U  
ClientSampled :  
X3622

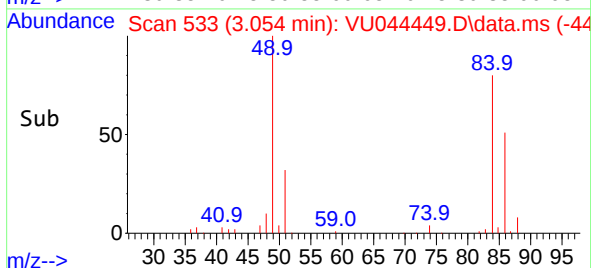
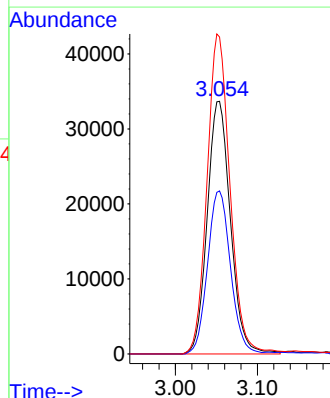
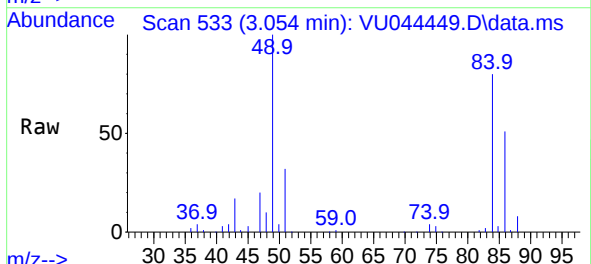
Manual Integrations  
APPROVED

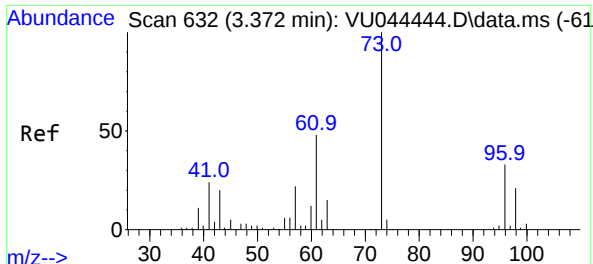
MMDadoda  
8/19/2021 3:31:33 PM



#16  
Methylene chloride  
Concen: 4.610 ug/L  
RT: 3.054 min Scan# 533  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

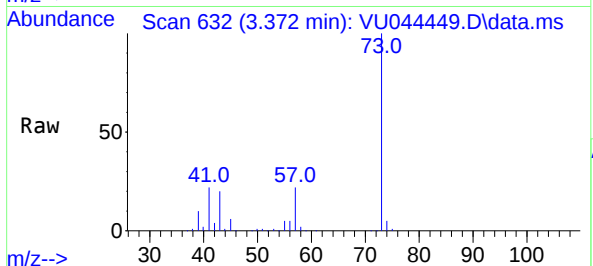
Tgt Ion: 84 Resp: 66225  
Ion Ratio Lower Upper  
84 100  
86 64.5 45.2 84.0  
49 125.4 88.8 165.0





#17  
Methyl tert-butyl Ether  
Concen: 11.360 ug/L  
RT: 3.372 min Scan# 632  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

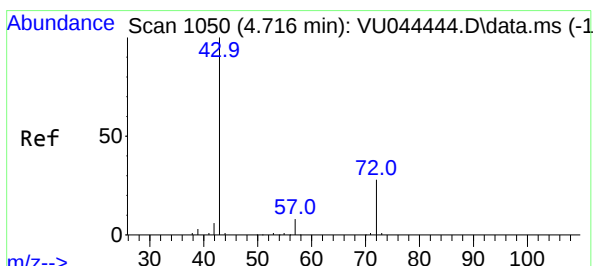
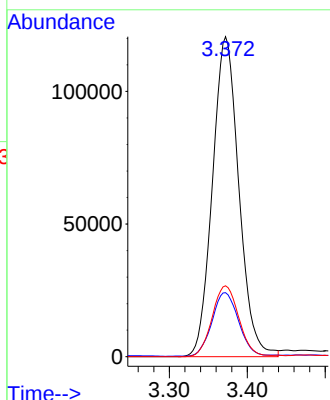
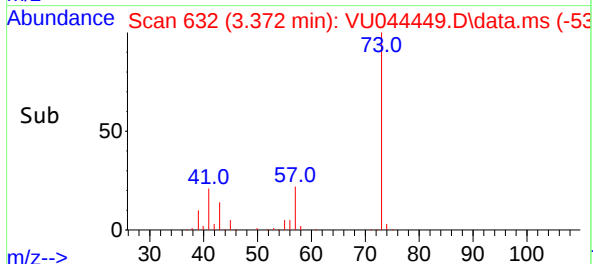
Instrument :  
MSVOA\_U  
ClientSampled :  
X3622



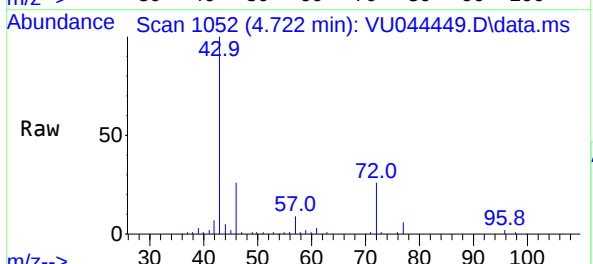
Tgt Ion: 73 Resp: 284077  
Ion Ratio Lower Upper  
73 100  
43 20.0 16.2 24.4  
57 22.4 17.8 26.8

Manual Integrations  
APPROVED

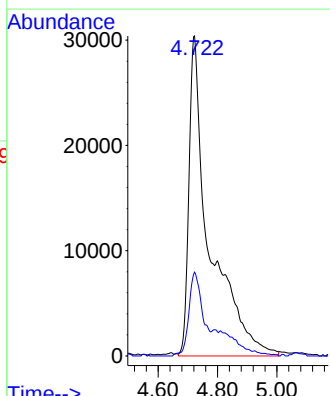
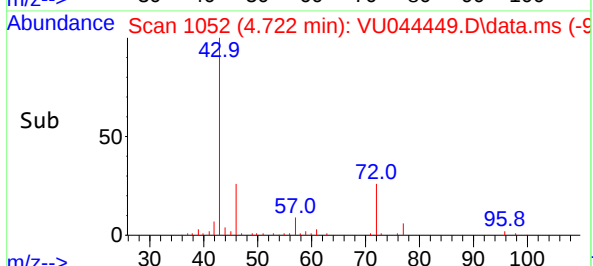
MMDadoda  
8/19/2021 3:31:33 PM

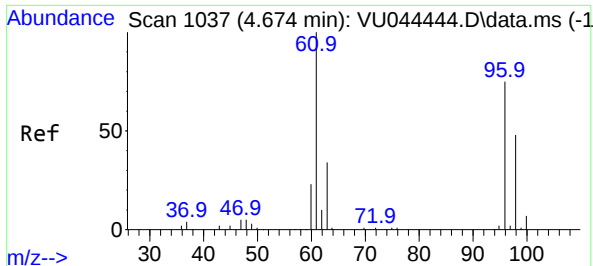


#21  
2-Butanone  
Concen: 43.844 ug/L m  
RT: 4.722 min Scan# 1052  
Delta R.T. 0.006 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

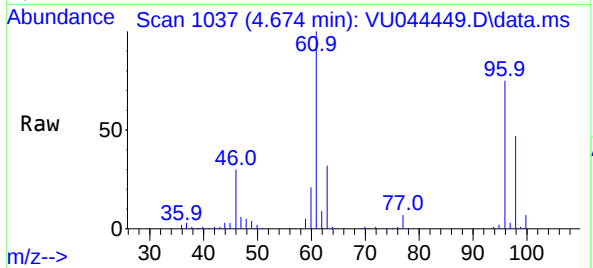


Tgt Ion: 43 Resp: 146004  
Ion Ratio Lower Upper  
43 100  
72 17.6 14.1 42.4

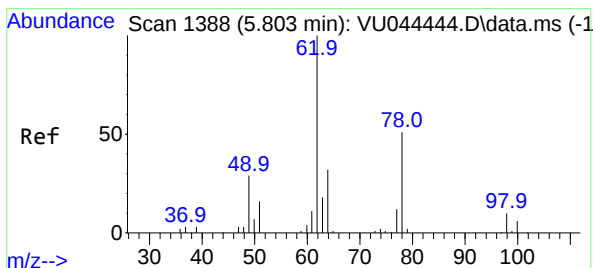
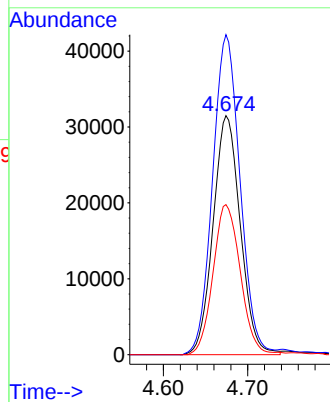
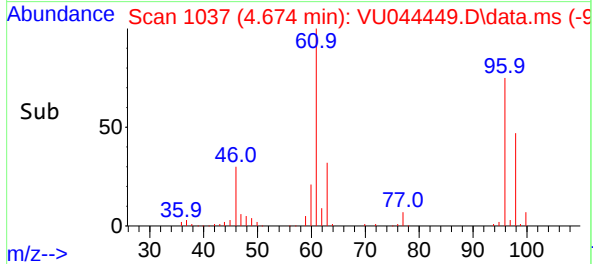




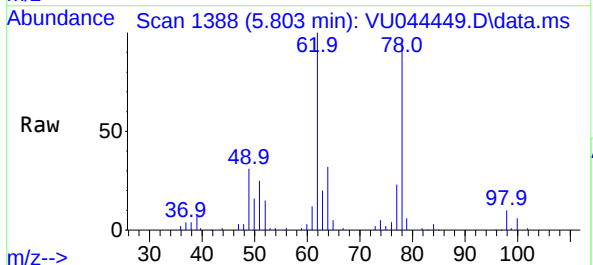
#22  
cis-1,2-Dichloroethene  
Concen: 6.555 ug/L  
RT: 4.674 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



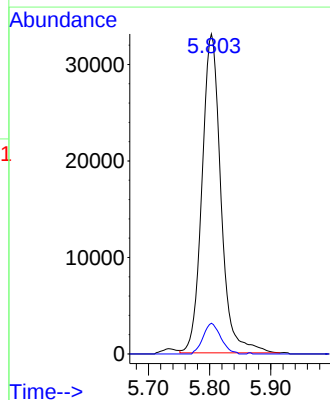
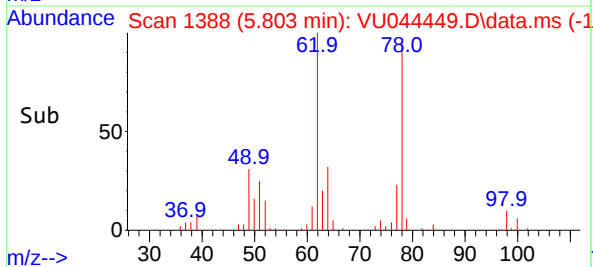
Tgt Ion: 96 Resp: 70606  
Ion Ratio Lower Upper  
96 100  
61 133.8 93.9 174.5  
98 62.8 44.7 83.1



#27  
1,2-Dichloroethane  
Concen: 5.318 ug/L  
RT: 5.803 min Scan# 1388  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



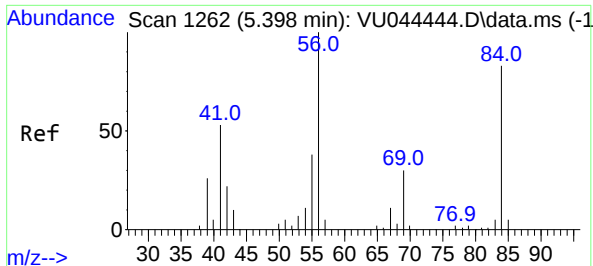
Tgt Ion: 62 Resp: 71084  
Ion Ratio Lower Upper  
62 100  
98 9.6 8.0 12.0



Instrument :  
MSVOA\_U  
ClientSampled :  
X3622

Manual Integrations  
APPROVED

MMDadoda  
8/19/2021 3:31:33 PM



#30

Cyclohexane

Concen: 11.398 ug/L

RT: 5.394 min Scan# 1261

Delta R.T. -0.003 min

Lab File: VU044449.D

Acq: 18 Aug 2021 16:10

Tgt Ion: 56 Resp: 199130

Ion Ratio Lower Upper

56 100

69 30.6 24.3 36.5

84 84.6 68.4 102.6

Instrument :

MSVOA\_U

ClientSampled :

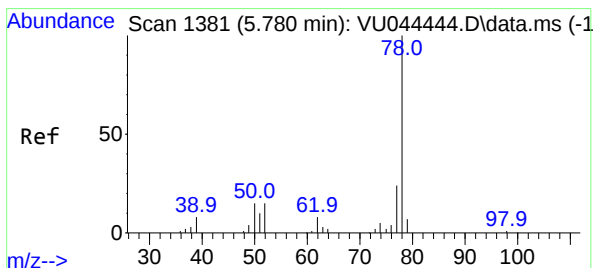
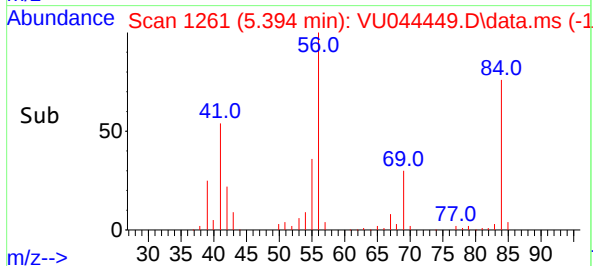
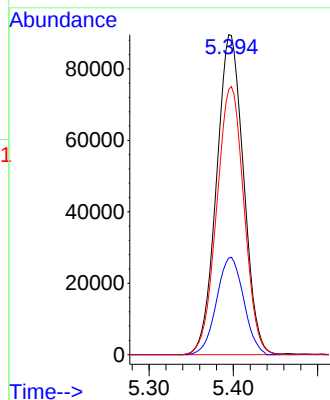
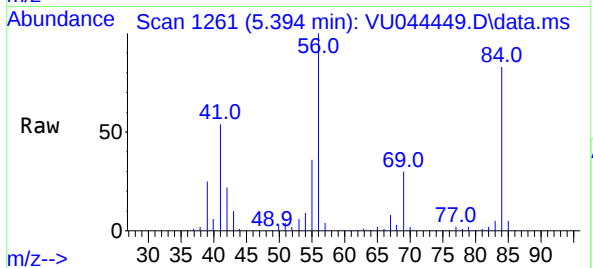
X3622

Manual Integrations

APPROVED

MMDadoda

8/19/2021 3:31:33 PM



#33

Benzene

Concen: 5.212 ug/L

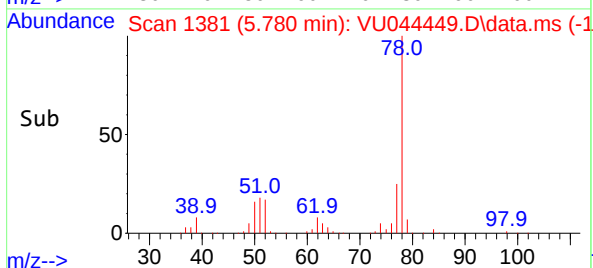
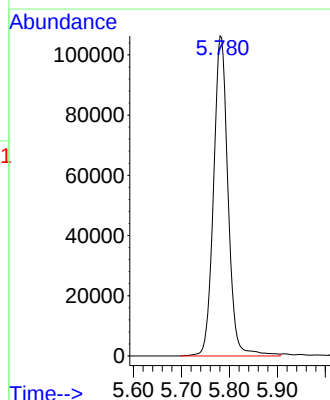
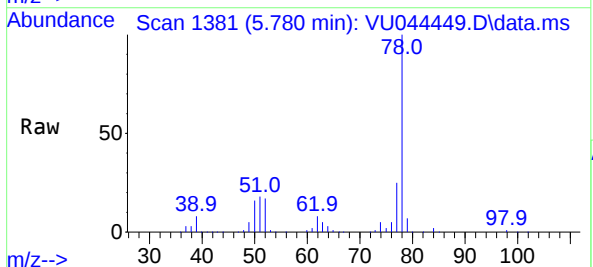
RT: 5.780 min Scan# 1381

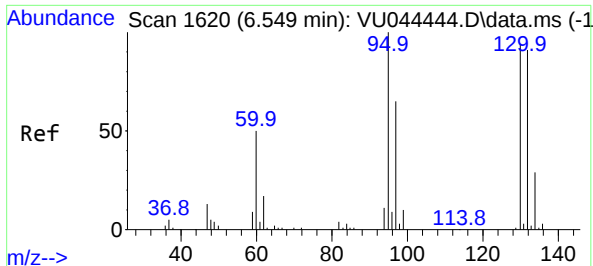
Delta R.T. -0.000 min

Lab File: VU044449.D

Acq: 18 Aug 2021 16:10

Tgt Ion: 78 Resp: 223303





#34  
Trichloroethene  
Concen: 3.631 ug/L  
RT: 6.549 min Scan# 1620  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

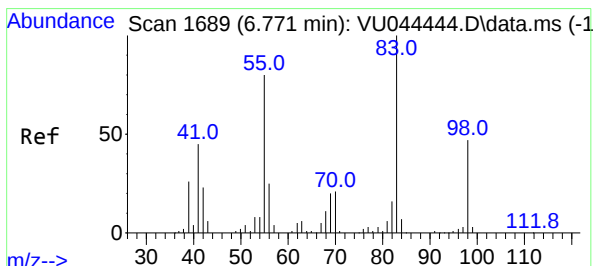
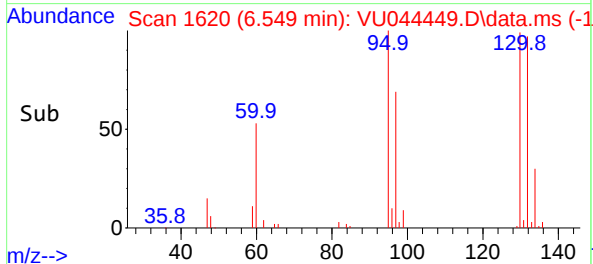
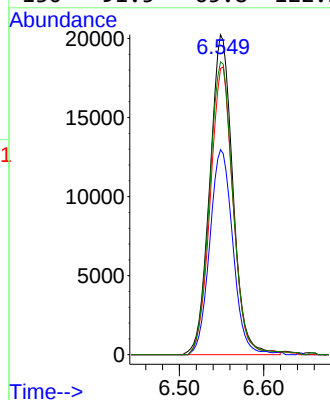
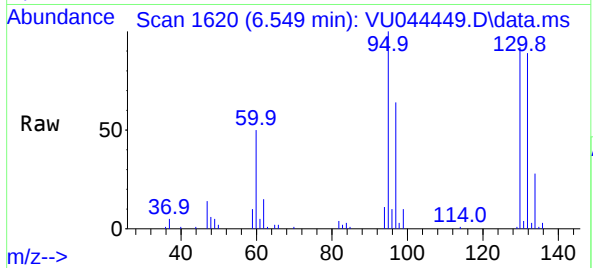
Tgt Ion: 95 Resp: 38457

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.0  | 45.6  | 84.8  |
| 132 | 89.4  | 63.4  | 117.8 |
| 130 | 91.5  | 65.8  | 122.2 |

Instrument :  
MSVOA\_U  
ClientSampled :  
X3622

Manual Integrations  
APPROVED

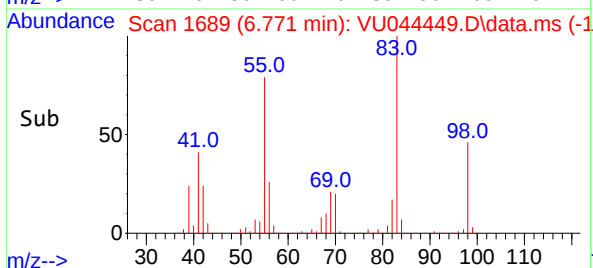
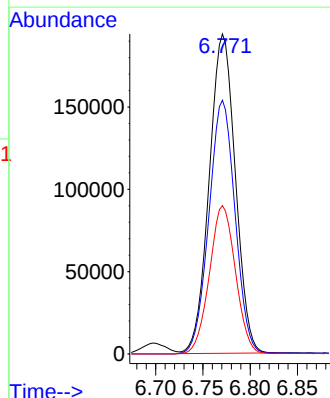
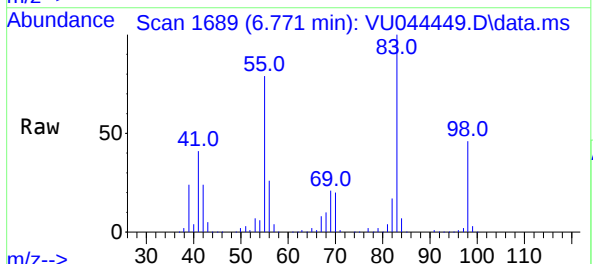
MMDadoda  
8/19/2021 3:31:33 PM

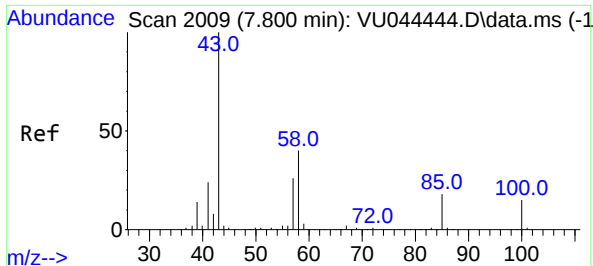


#35  
Methylcyclohexane  
Concen: 21.102 ug/L  
RT: 6.771 min Scan# 1689  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

Tgt Ion: 83 Resp: 372778

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 79.7  | 64.8  | 97.2  |
| 98  | 46.4  | 37.5  | 56.3  |





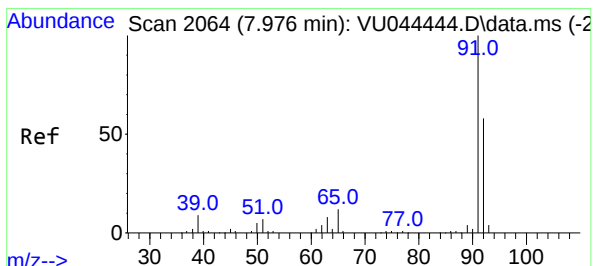
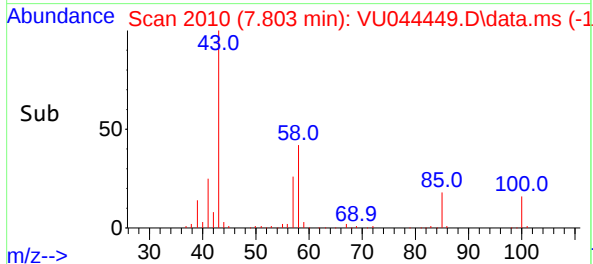
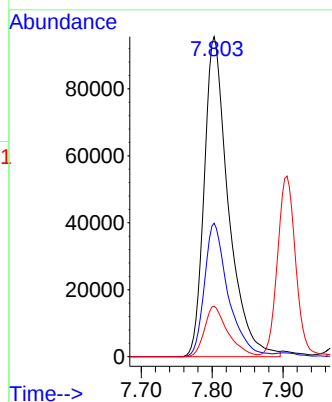
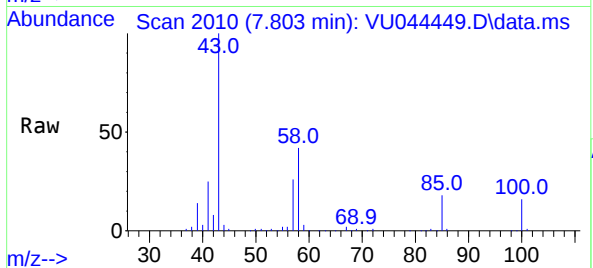
#40  
4-Methyl-2-pentanone  
Concen: 29.736 ug/L  
RT: 7.803 min Scan# 2010  
Delta R.T. 0.003 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

Tgt Ion: 43 Resp: 226507  
Ion Ratio Lower Upper  
43 100  
58 41.1 32.5 48.7  
100 15.3 12.3 18.5

Instrument :  
MSVOA\_U  
ClientSampled :  
X3622

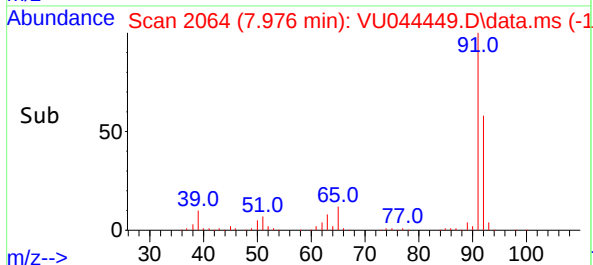
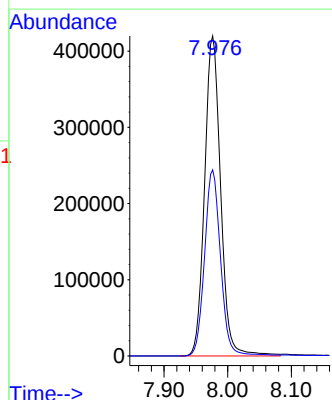
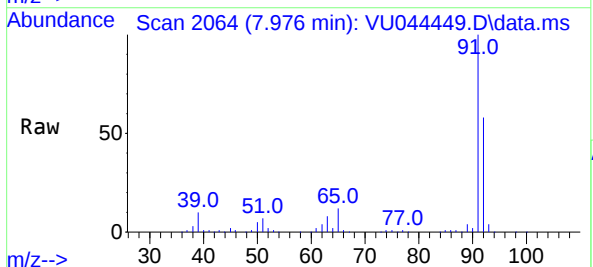
Manual Integrations  
APPROVED

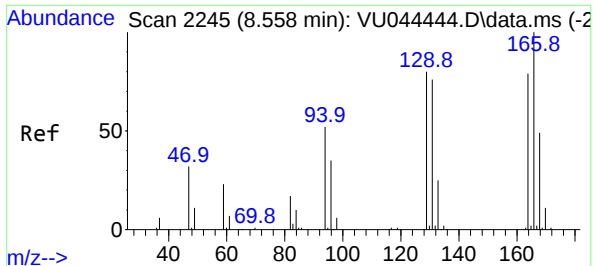
MMDadoda  
8/19/2021 3:31:33 PM



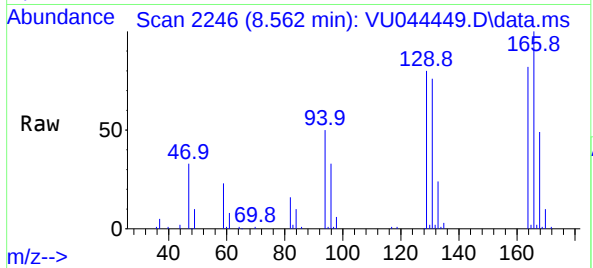
#42  
Toluene  
Concen: 16.501 ug/L  
RT: 7.976 min Scan# 2064  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

Tgt Ion: 91 Resp: 736393  
Ion Ratio Lower Upper  
91 100  
92 58.1 40.7 75.5



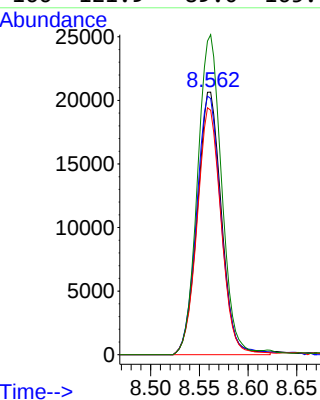


#47  
Tetrachloroethene  
Concen: 4.842 ug/L  
RT: 8.562 min Scan# 2246  
Delta R.T. 0.003 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



Tgt Ion: 164 Resp: 35462

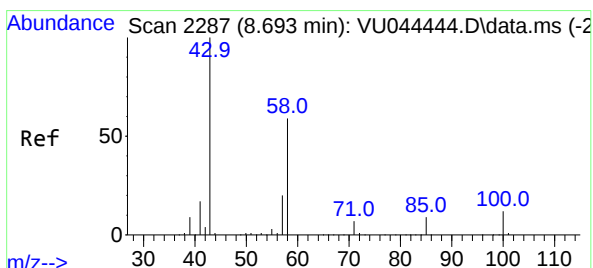
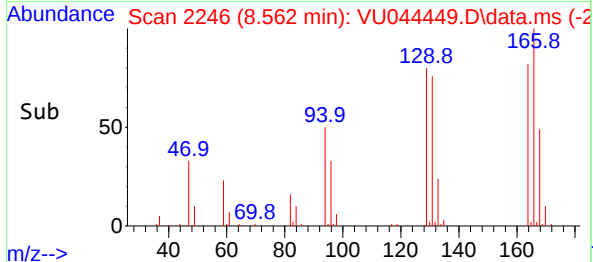
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 97.6  | 71.0  | 131.8 |
| 131 | 93.1  | 68.0  | 126.4 |
| 166 | 121.9 | 89.0  | 165.4 |



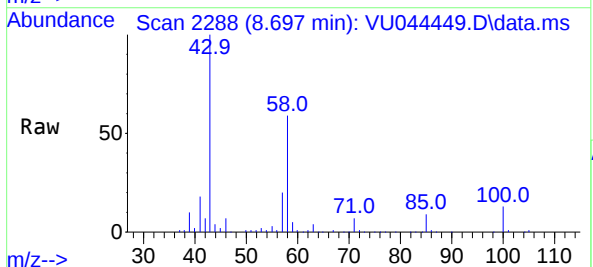
Instrument :  
MSVOA\_U  
ClientSampled :  
X3622

Manual Integrations  
APPROVED

MMDadoda  
8/19/2021 3:31:33 PM

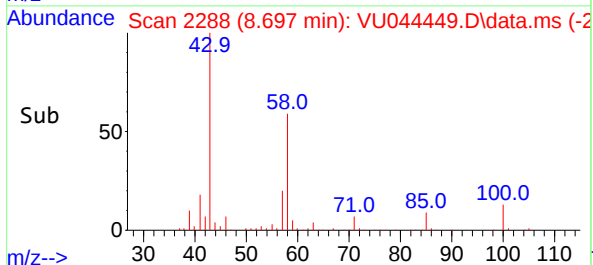
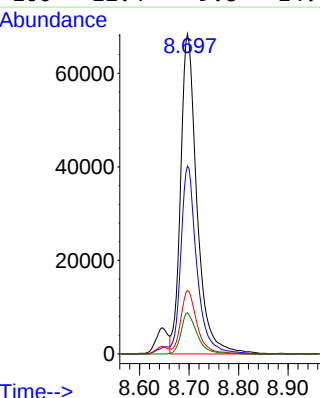


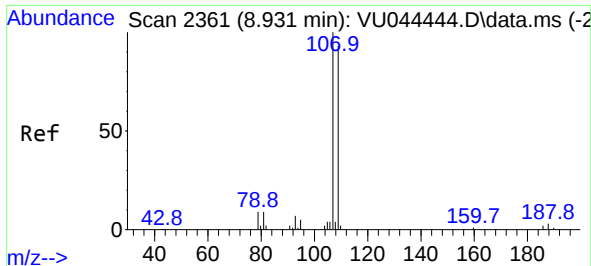
#48  
2-Hexanone  
Concen: 28.959 ug/L  
RT: 8.697 min Scan# 2288  
Delta R.T. 0.003 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



Tgt Ion: 43 Resp: 157397

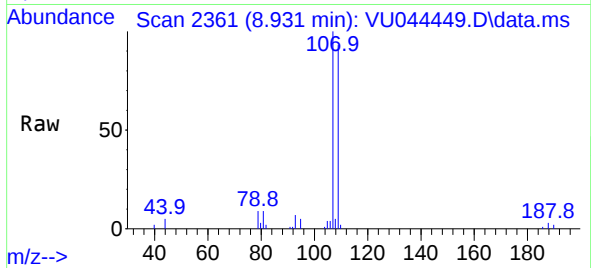
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 59.0  | 46.5  | 69.7  |
| 57  | 19.5  | 15.8  | 23.8  |
| 100 | 12.4  | 9.8   | 14.8  |





#50  
1,2-Dibromoethane  
Concen: 1.960 ug/L  
RT: 8.931 min Scan# 2361  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

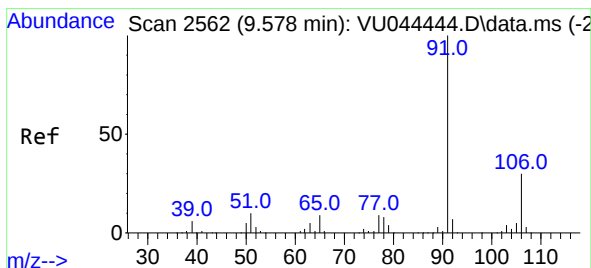
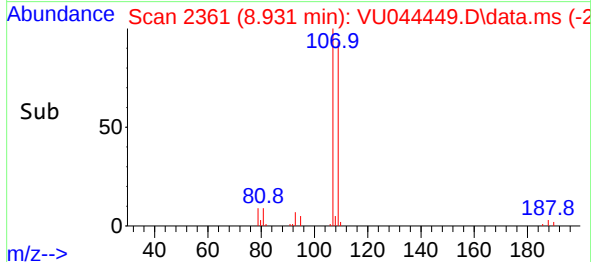
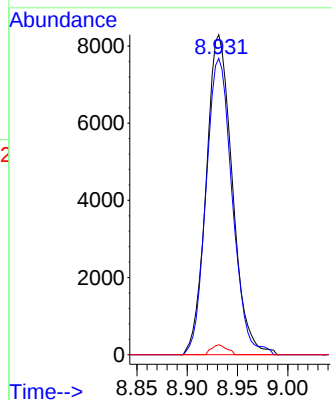
Instrument :  
MSVOA\_U  
ClientSampled :  
X3622



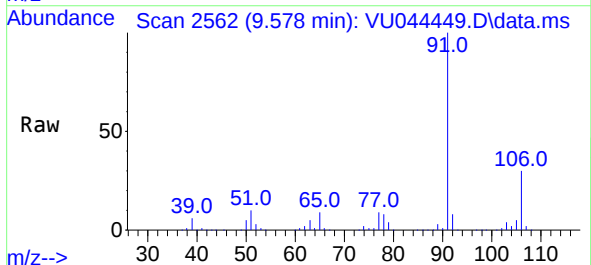
Tgt Ion:107 Resp: 15001  
Ion Ratio Lower Upper  
107 100  
109 92.6 65.2 121.0  
188 3.1 2.4 3.6

Manual Integrations  
APPROVED

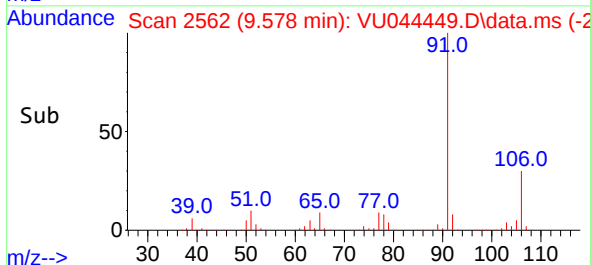
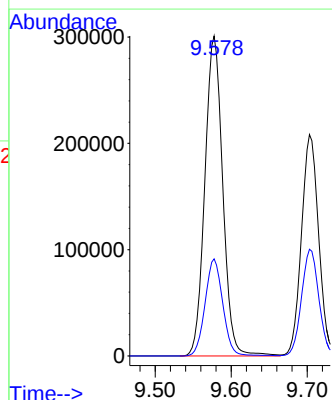
MMDadoda  
8/19/2021 3:31:33 PM

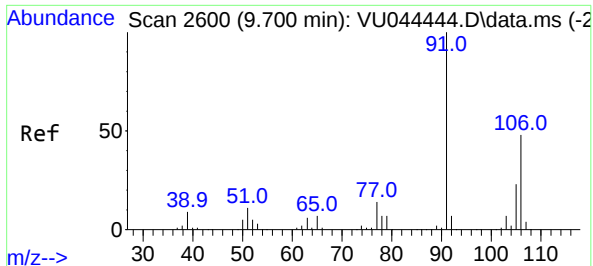


#52  
Ethylbenzene  
Concen: 10.436 ug/L  
RT: 9.578 min Scan# 2562  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10



Tgt Ion: 91 Resp: 491988  
Ion Ratio Lower Upper  
91 100  
106 30.3 21.3 39.6





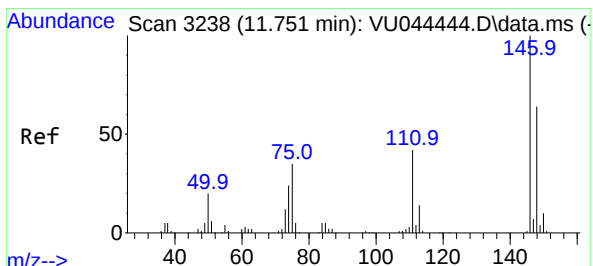
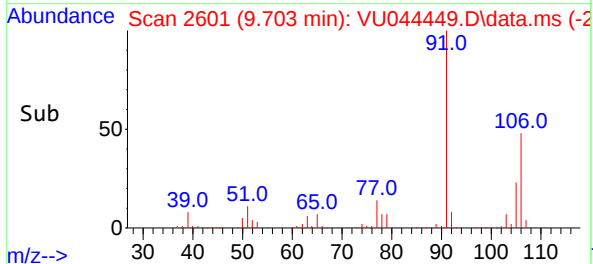
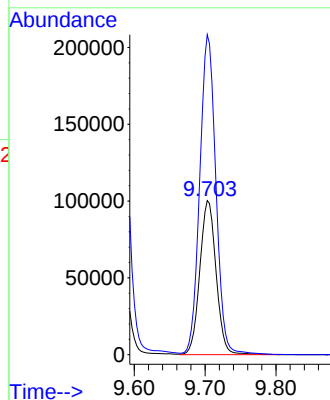
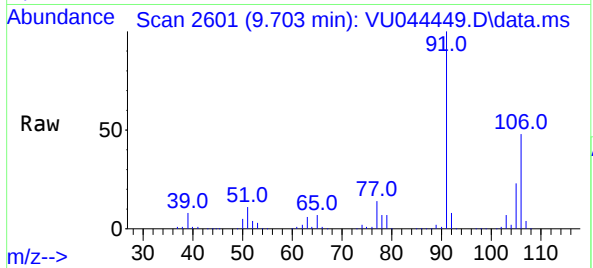
#53  
m,p-Xylene  
Concen: 9.052 ug/L  
RT: 9.703 min Scan# 2601  
Delta R.T. 0.003 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

Instrument :  
MSVOA\_U  
ClientSampled :  
X3622

Tgt Ion:106 Resp: 160431  
Ion Ratio Lower Upper  
106 100  
91 207.7 146.2 271.6

Manual Integrations  
APPROVED

MMDadoda  
8/19/2021 3:31:33 PM



#64  
1,3-Dichlorobenzene  
Concen: 6.288 ug/L  
RT: 11.751 min Scan# 3238  
Delta R.T. -0.000 min  
Lab File: VU044449.D  
Acq: 18 Aug 2021 16:10

Tgt Ion:146 Resp: 125146  
Ion Ratio Lower Upper  
146 100  
111 43.1 29.6 55.0  
148 63.7 44.7 83.1

