

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW102423\  
 Data File : VW032616.D  
 Acq On : 25 Oct 2023 02:12  
 Operator : SY/MD  
 Sample : 04995-03MS  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4937MS

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/25/2023  
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 25 08:37:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Oct 25 08:15:09 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539  | 114   | 92001    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789  | 117   | 103028   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188 | 152   | 54298    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 23210    | 3.102    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 62.000%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 27746    | 4.568    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 91.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 9487     | 3.006    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 60.200%  |
| 20) 2-Butanone-d5             | 3.799  | 46    | 102515   | 54.161   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 108.320% |
| 24) Chloroform-d              | 4.256  | 84    | 60378m   | 4.574    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.400%  |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 32262    | 5.160    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 103.200% |
| 32) Benzene-d6                | 4.963  | 84    | 102025   | 3.365    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 67.400%# |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 34740    | 3.459    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 69.200%  |
| 41) Toluene-d8                | 7.246  | 98    | 96225    | 3.471    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 69.400%# |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 14286    | 4.014    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 80.200%  |
| 46) 2-Hexanone-d5             | 8.027  | 63    | 90401    | 53.982   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 107.960% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156 | 84    | 37620    | 5.355    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 107.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 40350    | 4.005    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 80.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 48253    | 4.707    | ug/L   | 99       |
| 3) Chloromethane              | 1.217  | 50    | 49388    | 4.779    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.282  | 62    | 46926    | 4.760    | ug/L   | 98       |
| 6) Bromomethane               | 1.487  | 94    | 28343    | 4.760    | ug/L   | 97       |
| 8) Chloroethane               | 1.548  | 64    | 34023    | 5.733    | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 66047    | 5.587    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101   | 36351    | 5.075    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 32839    | 4.867    | ug/L   | 84       |
| 13) Acetone                   | 2.127  | 43    | 62267    | 42.682   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.243  | 76    | 92713    | 3.931    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.384  | 43    | 11189    | 3.407    | ug/L   | 92       |
| 16) Methylene chloride        | 2.449  | 84    | 38457    | 4.372    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 2.706  | 73    | 82675    | 4.501    | ug/L   | 97       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 33246    | 4.302    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.114  | 63    | 67057    | 4.612    | ug/L   | 97       |
| 21) 2-Butanone                | 3.880  | 43    | 92809    | 40.681   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.815  | 96    | 38818    | 4.665    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.153  | 128   | 16990    | 4.853    | ug/L   | 98       |
| 25) Chloroform                | 4.278  | 83    | 71975    | 5.046    | ug/L   | 98       |

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 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Oct 25 08:15:09 2023  
 Response via : Initial Calibration

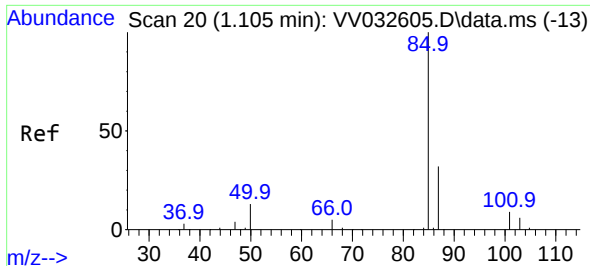
Manual Integrations  
 APPROVED

Reviewed By :John Carlone 10/25/2023  
 Supervised By :Mahesh Dadoda 10/26/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 44522    | 5.283  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 4.513  | 97   | 59435    | 4.243  | ug/L   | 97       |
| 30) Cyclohexane               | 4.587  | 56   | 48787    | 3.169  | ug/L   | 96       |
| 31) Carbon tetrachloride      | 4.738  | 117  | 50412    | 4.253  | ug/L   | 99       |
| 33) Benzene                   | 5.011  | 78   | 150198   | 4.141  | ug/L   | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 37151    | 3.752  | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.053  | 83   | 55395    | 3.615  | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.095  | 63   | 35980    | 3.709  | ug/L # | 95       |
| 38) Bromodichloromethane      | 6.436  | 83   | 49263    | 4.274  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.957  | 75   | 55679    | 4.033  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 253378   | 41.274 | ug/L   | 98       |
| 42) Toluene                   | 7.317  | 91   | 176785   | 4.572  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 48944    | 4.314  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97   | 32080    | 4.688  | ug/L   | 97       |
| 47) Tetrachloroethene         | 7.908  | 164  | 32543    | 4.334  | ug/L   | 99       |
| 48) 2-Hexanone                | 8.079  | 43   | 184471   | 42.590 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.178  | 129  | 34947    | 4.905  | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.285  | 107  | 28395    | 4.387  | ug/L   | 96       |
| 51) Chlorobenzene             | 8.818  | 112  | 112502   | 4.519  | ug/L   | 99       |
| 52) Ethylbenzene              | 8.950  | 91   | 186000   | 4.320  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.075  | 106  | 70154    | 4.393  | ug/L   | 99       |
| 54) o-Xylene                  | 9.481  | 106  | 67722    | 4.401  | ug/L   | 96       |
| 55) Styrene                   | 9.500  | 104  | 116386   | 4.479  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.182 | 83   | 37945    | 5.039  | ug/L   | 98       |
| 59) Bromoform                 | 9.670  | 173  | 18314    | 4.638  | ug/L   | 98       |
| 60) Isopropylbenzene          | 9.870  | 105  | 183991   | 4.360  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 25669    | 4.442  | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 10.481 | 105  | 141015   | 4.100  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.854 | 105  | 142664   | 4.166  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.120 | 146  | 89383    | 4.434  | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 88565    | 4.379  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 83171    | 4.524  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 5201     | 4.405  | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 59948    | 4.061  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 50157    | 3.830  | ug/L   | 99       |
| 71) Naphthalene               | 13.442 | 128  | 78619    | 3.534  | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 46286    | 4.102  | ug/L   | 99       |

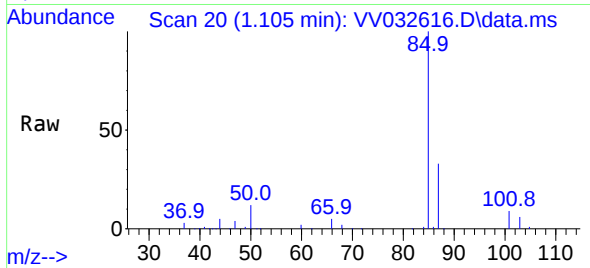
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#2  
Dichlorodifluoromethane  
Concen: 4.707 ug/L  
RT: 1.105 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

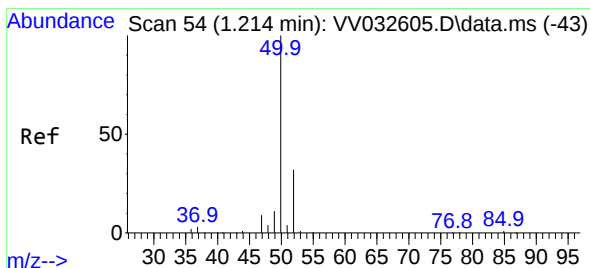
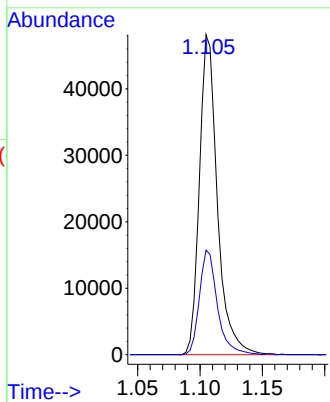
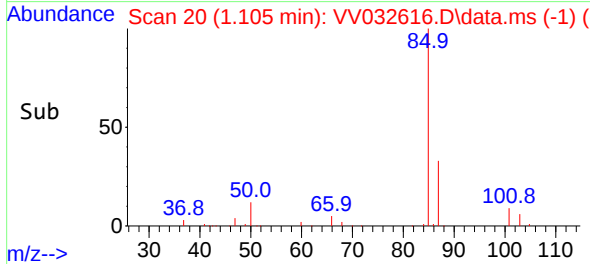
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



Tgt Ion: 85 Resp: 4825  
Ion Ratio Lower Upper  
85 100  
87 32.7 25.5 38.3

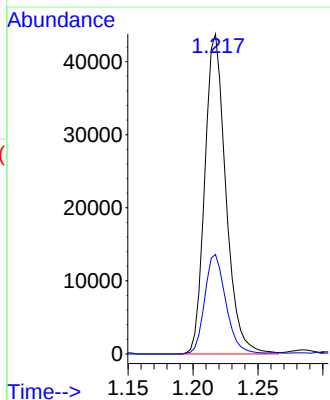
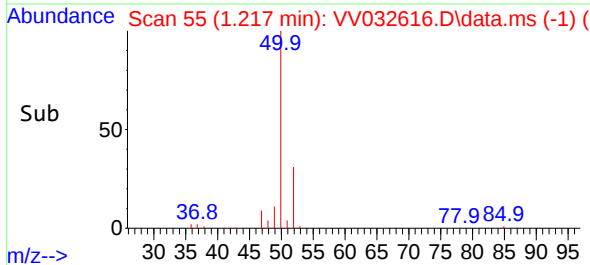
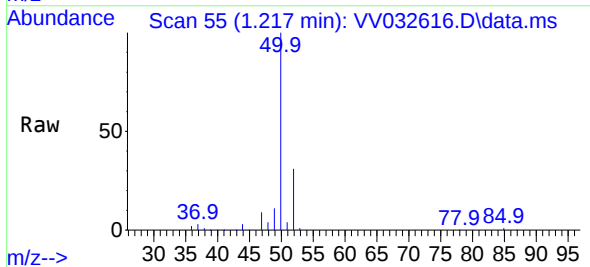
Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/25/2023  
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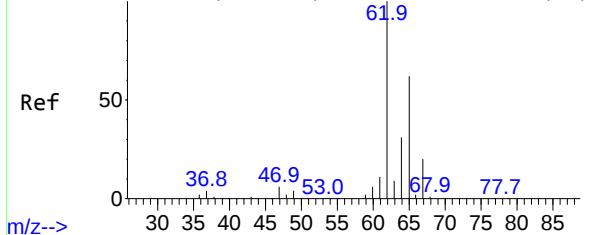


#3  
Chloromethane  
Concen: 4.779 ug/L  
RT: 1.217 min Scan# 55  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Tgt Ion: 50 Resp: 49388  
Ion Ratio Lower Upper  
50 100  
52 31.1 23.0 42.6



Abundance Scan 75 (1.282 min): VV032605.D\data.ms (-66)



#5

Vinyl chloride

Concen: 4.760 ug/L

RT: 1.282 min Scan# 75

Delta R.T. 0.000 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

Instrument :

MSVOA\_V

ClientSampleId :

A4937MS

Tgt Ion: 62 Resp: 46920

Ion Ratio Lower Upper

62 100

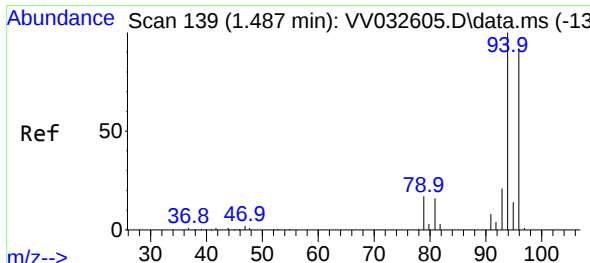
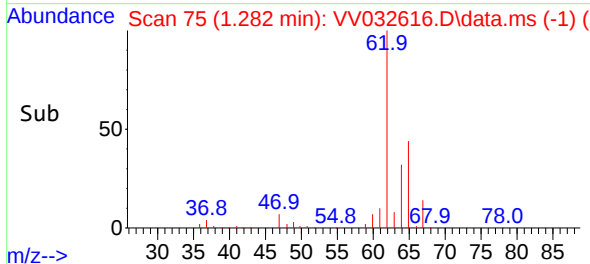
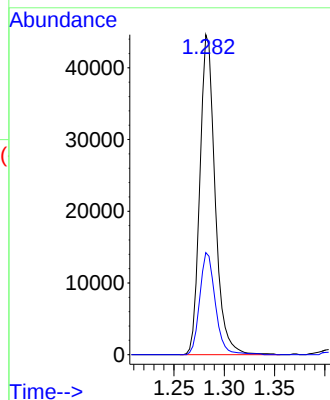
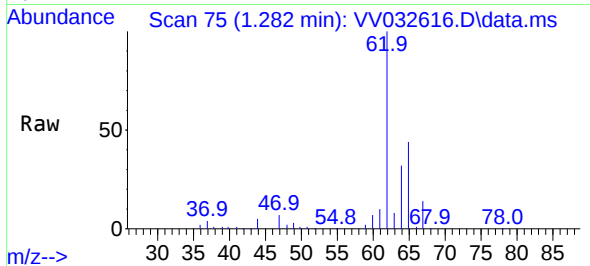
64 31.9 23.1 42.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/25/2023

Supervised By :Mahesh Dadoda 10/26/2023



#6

Bromomethane

Concen: 4.760 ug/L

RT: 1.487 min Scan# 139

Delta R.T. 0.000 min

Lab File: VV032616.D

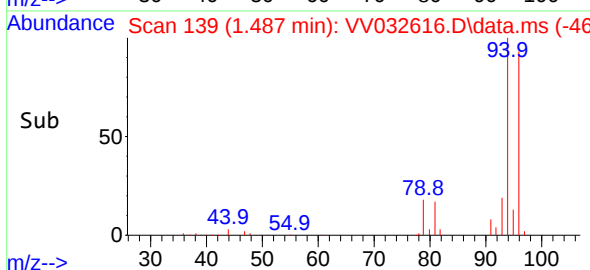
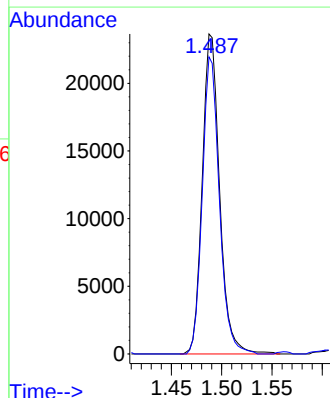
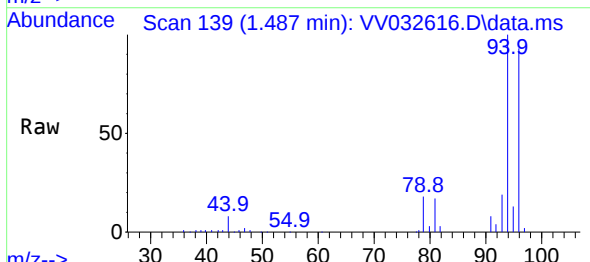
Acq: 25 Oct 2023 02:12

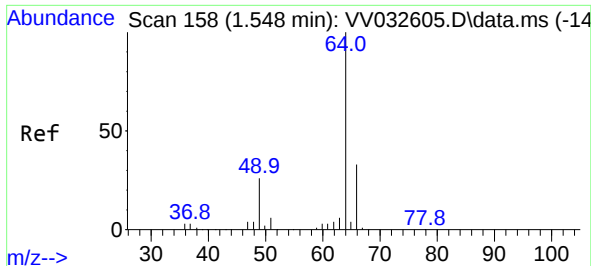
Tgt Ion: 94 Resp: 28343

Ion Ratio Lower Upper

94 100

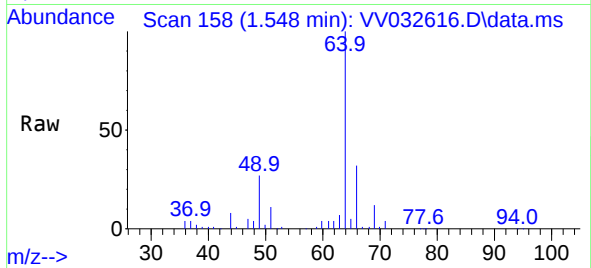
96 92.8 66.8 124.2





#8  
Chloroethane  
Concen: 5.733 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

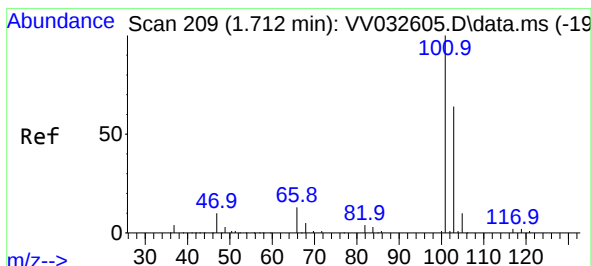
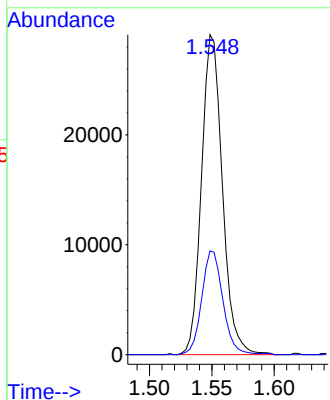
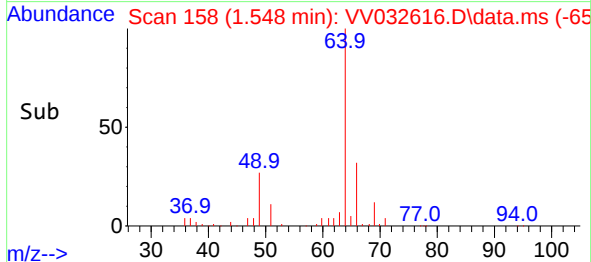
Instrument :  
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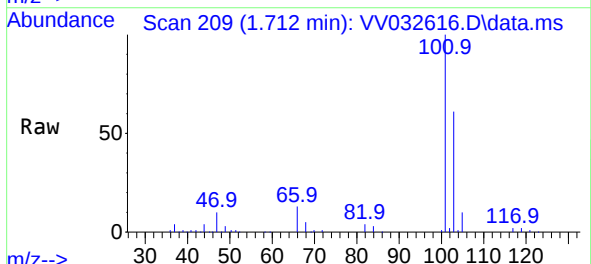
Tgt Ion: 64 Resp: 3402  
Ion Ratio Lower Upper  
64 100  
66 32.4 22.6 42.0

Manual Integrations  
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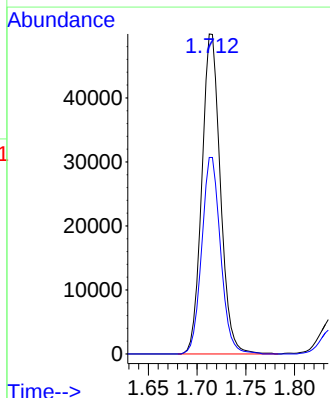
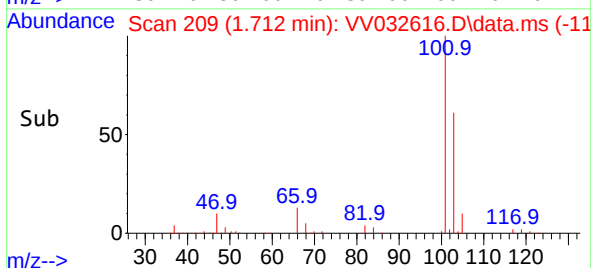
Reviewed By :John Carlone 10/25/2023  
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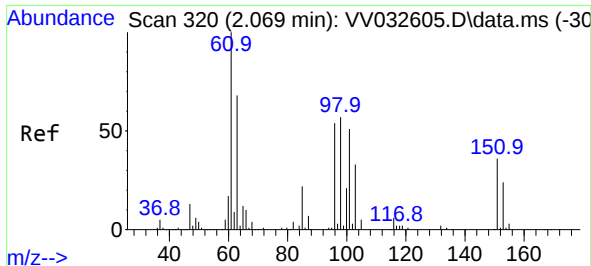


#9  
Trichlorofluoromethane  
Concen: 5.587 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion:101 Resp: 66047  
Ion Ratio Lower Upper  
101 100  
103 62.5 51.4 77.2





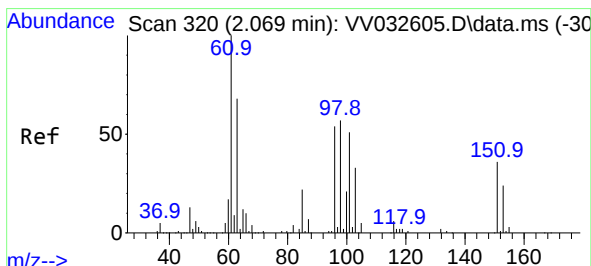
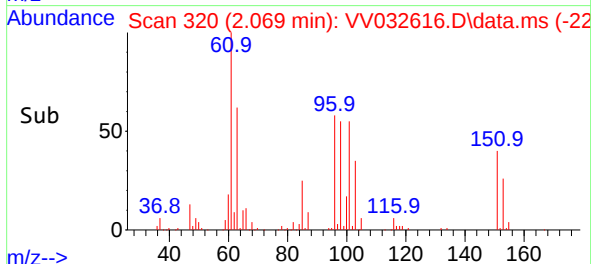
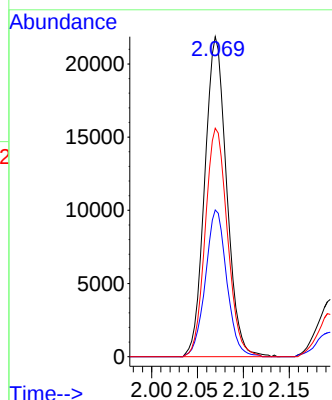
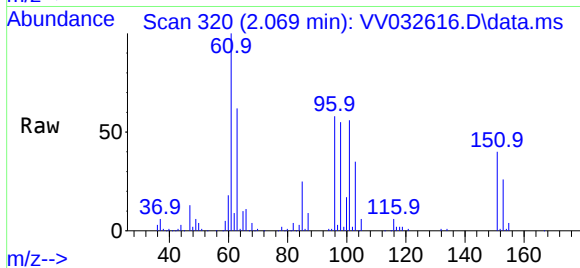
#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.075 ug/L  
RT: 2.069 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS

Tgt Ion:101 Resp: 3635  
Ion Ratio Lower Upper  
101 100  
85 44.6 35.0 52.6  
151 72.3 56.6 84.8

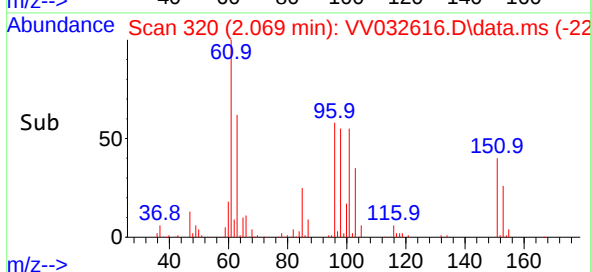
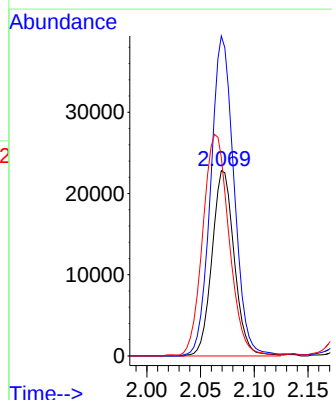
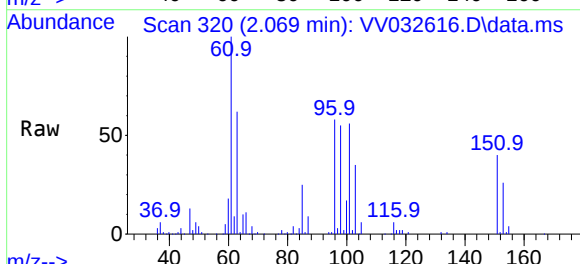
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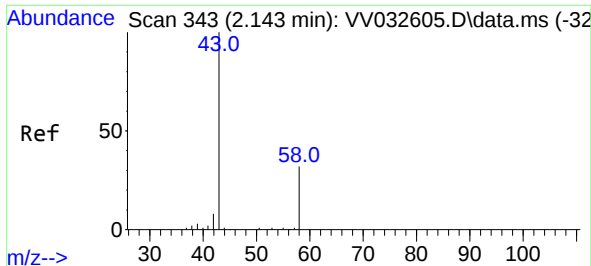
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#12  
1,1-Dichloroethene  
Concen: 4.867 ug/L  
RT: 2.069 min Scan# 320  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Tgt Ion: 96 Resp: 32839  
Ion Ratio Lower Upper  
96 100  
61 172.7 127.3 236.3  
63 107.2 98.3 182.7





#13

Acetone

Concen: 42.682 ug/L

RT: 2.127 min Scan# 31

Delta R.T. -0.016 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

Instrument :

MSVOA\_V

ClientSampleId :

A4937MS

Tgt Ion: 43 Resp: 6226

Ion Ratio Lower Upper

43 100

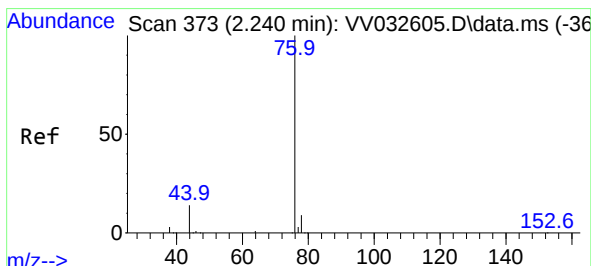
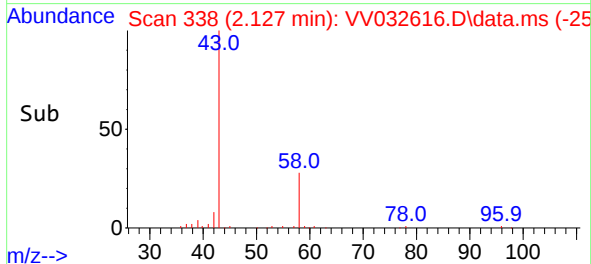
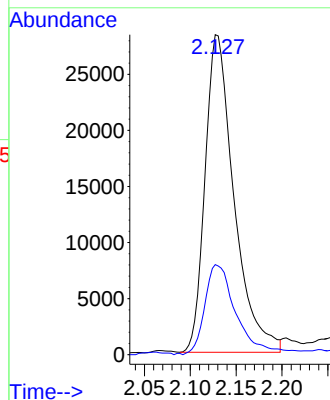
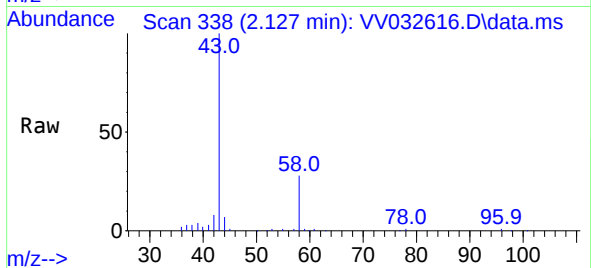
58 31.1 0.0 66.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/25/2023

Supervised By :Mahesh Dadoda 10/26/2023



#14

Carbon disulfide

Concen: 3.931 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.003 min

Lab File: VV032616.D

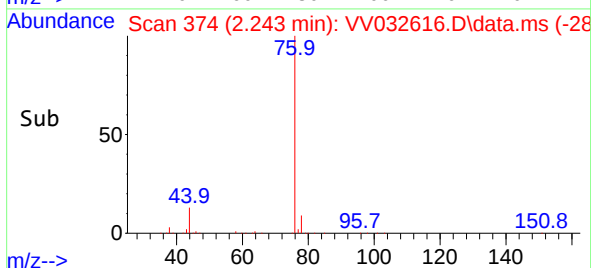
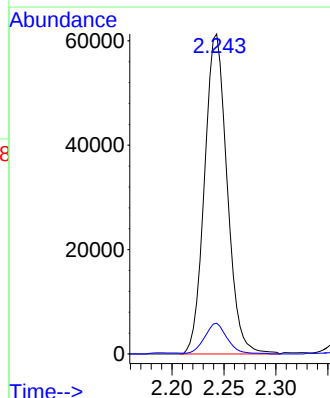
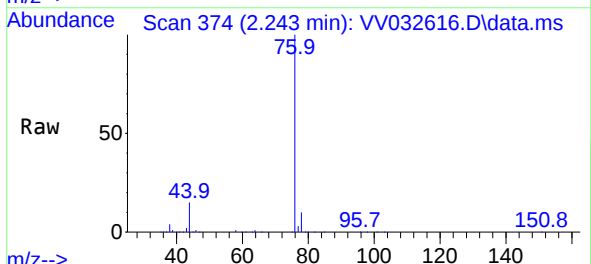
Acq: 25 Oct 2023 02:12

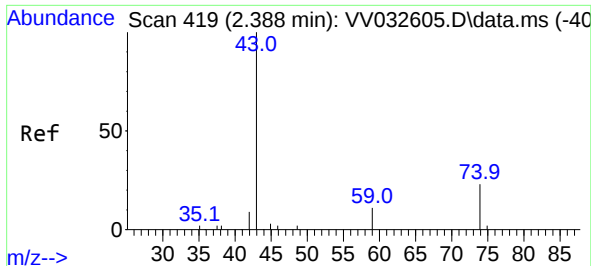
Tgt Ion: 76 Resp: 92713

Ion Ratio Lower Upper

76 100

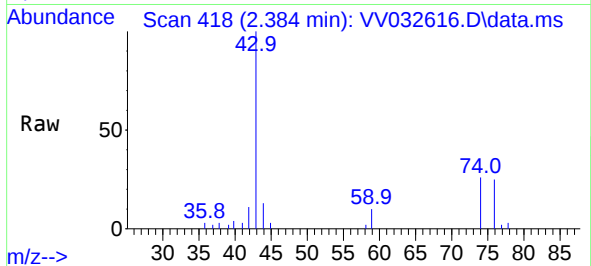
78 9.6 7.4 11.2





#15  
Methyl Acetate  
Concen: 3.407 ug/L  
RT: 2.384 min Scan# 419  
Delta R.T. -0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

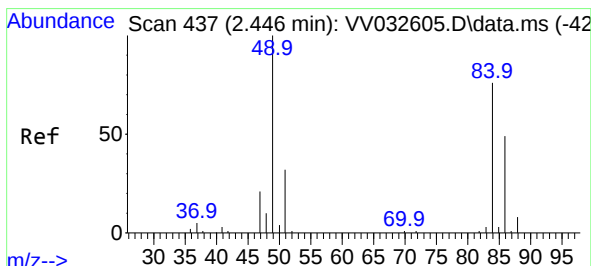
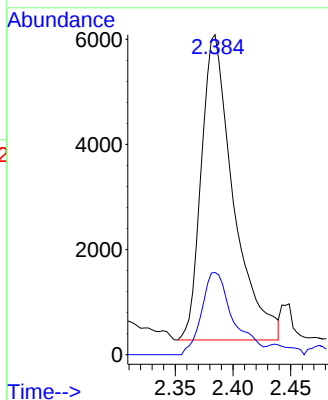
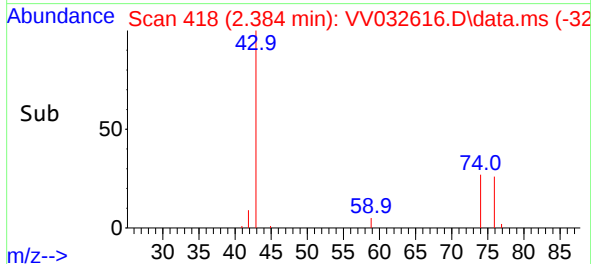
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



Tgt Ion: 43 Resp: 11189  
Ion Ratio Lower Upper  
43 100  
74 26.4 18.0 27.0

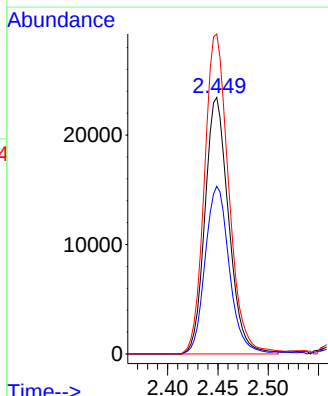
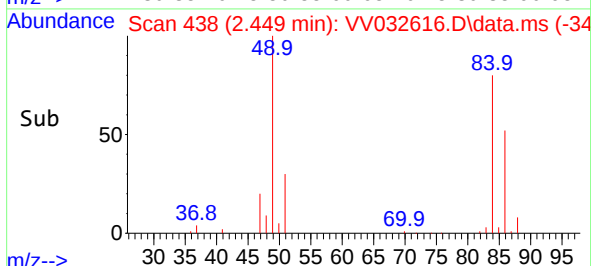
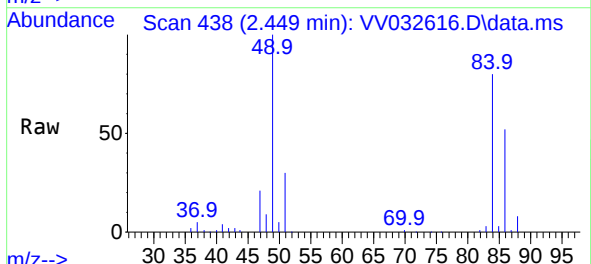
Manual Integrations  
APPROVED

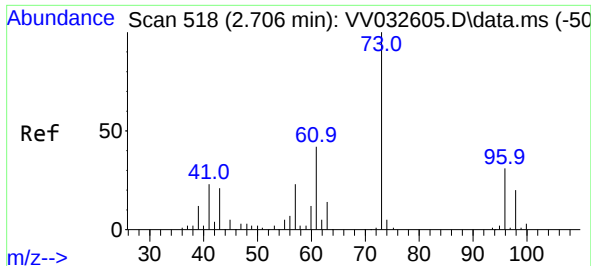
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#16  
Methylene chloride  
Concen: 4.372 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

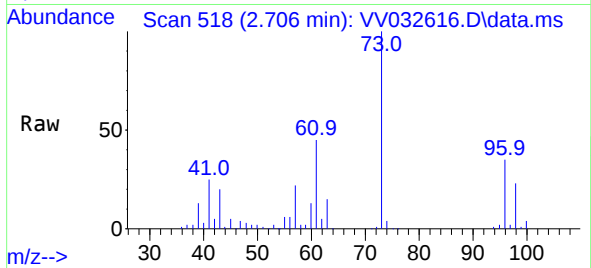
Tgt Ion: 84 Resp: 38457  
Ion Ratio Lower Upper  
84 100  
86 65.4 43.2 80.2  
49 124.8 86.3 160.3





#17  
Methyl tert-butyl Ether  
Concen: 4.501 ug/L  
RT: 2.706 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

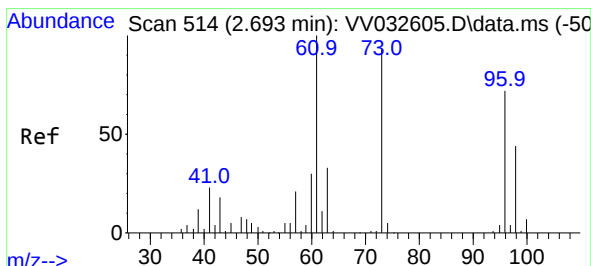
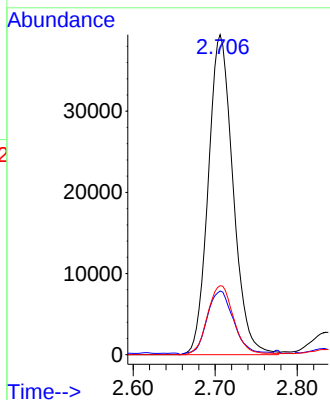
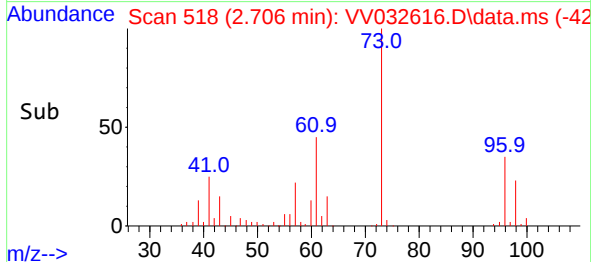
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



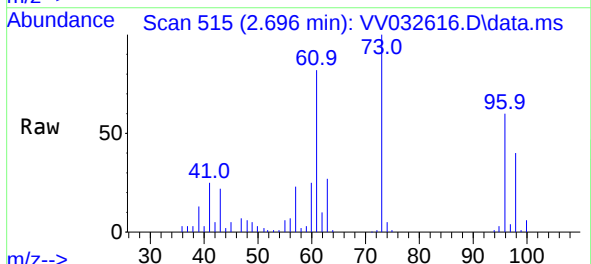
Tgt Ion: 73 Resp: 8267  
Ion Ratio Lower Upper  
73 100  
43 21.7 15.1 22.7  
57 22.9 18.3 27.5

Manual Integrations  
APPROVED

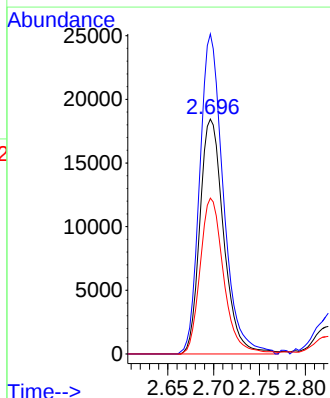
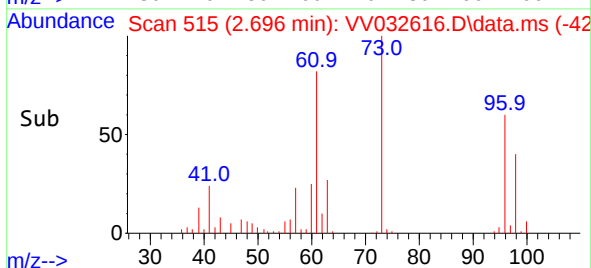
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

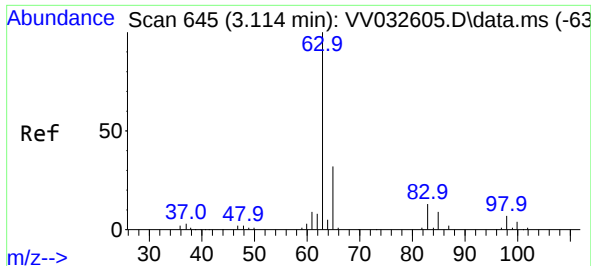


#18  
trans-1,2-Dichloroethene  
Concen: 4.302 ug/L  
RT: 2.696 min Scan# 515  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



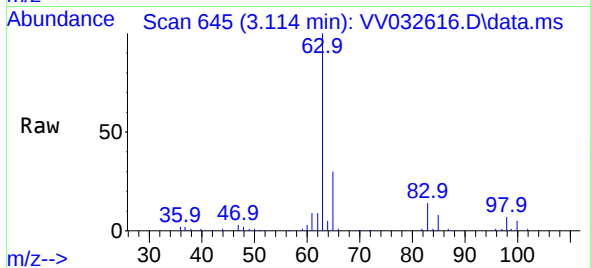
Tgt Ion: 96 Resp: 33246  
Ion Ratio Lower Upper  
96 100  
61 136.3 96.9 180.1  
98 66.4 45.3 84.1





#19  
1,1-Dichloroethane  
Concen: 4.612 ug/L  
RT: 3.114 min Scan# 645  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

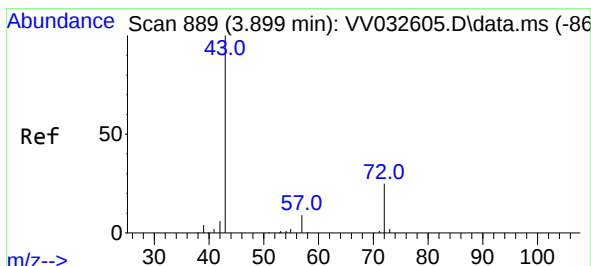
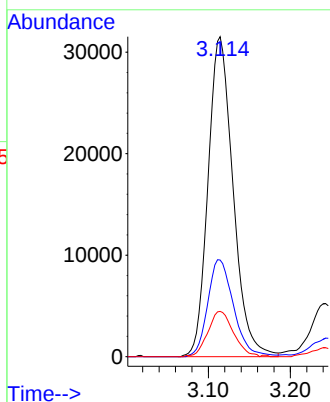
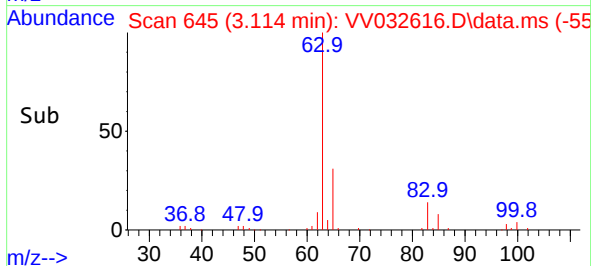
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



Tgt Ion: 63 Resp: 6705  
Ion Ratio Lower Upper  
63 100  
65 30.2 22.3 41.5  
83 14.2 9.0 16.6

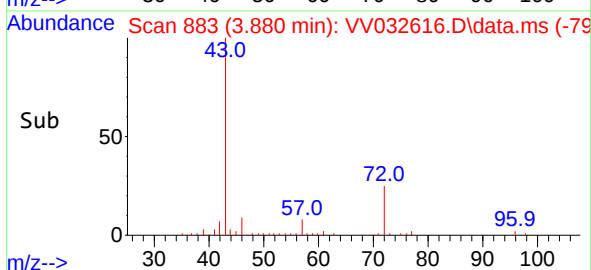
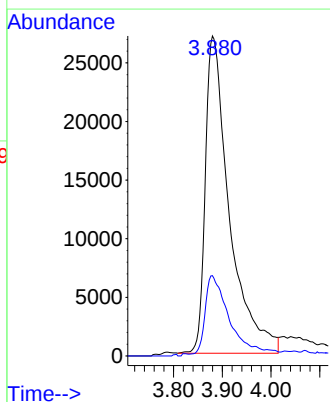
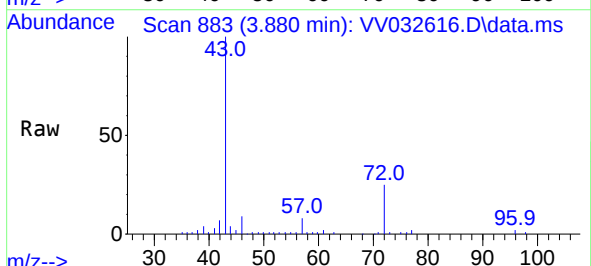
Manual Integrations  
APPROVED

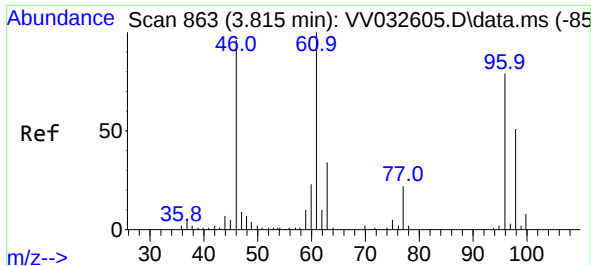
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#21  
2-Butanone  
Concen: 40.681 ug/L  
RT: 3.880 min Scan# 883  
Delta R.T. -0.019 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

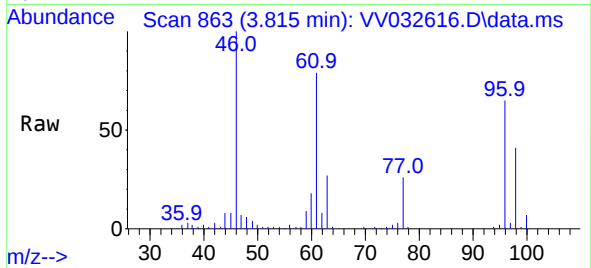
Tgt Ion: 43 Resp: 92809  
Ion Ratio Lower Upper  
43 100  
72 23.9 11.6 34.8





#22  
cis-1,2-Dichloroethene  
Concen: 4.665 ug/L  
RT: 3.815 min Scan# 863  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

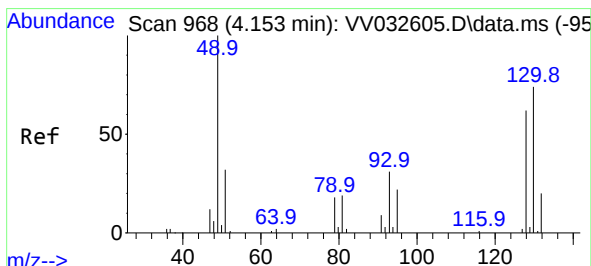
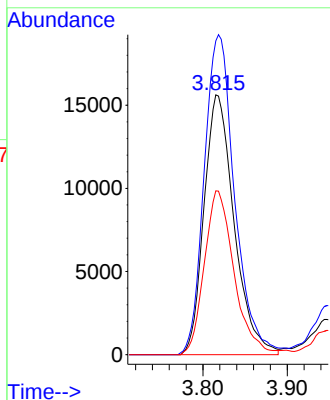
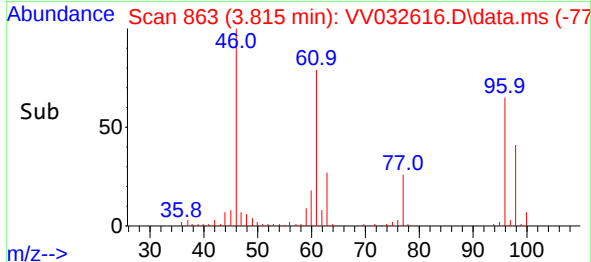
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



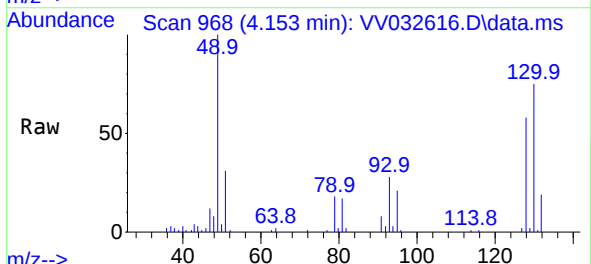
Tgt Ion: 96 Resp: 38818  
Ion Ratio Lower Upper  
96 100  
61 120.8 85.8 159.4  
98 63.1 44.0 81.6

Manual Integrations  
APPROVED

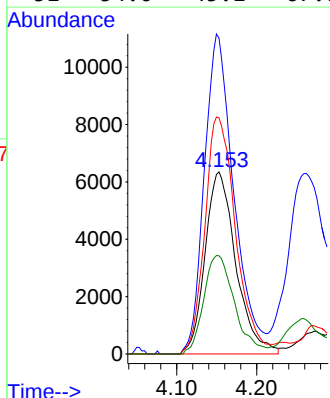
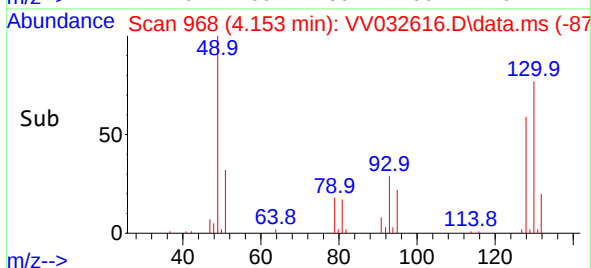
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

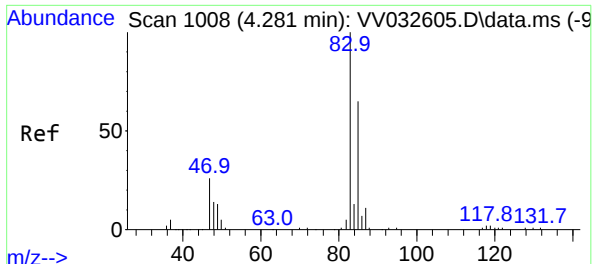


#23  
Bromochloromethane  
Concen: 4.853 ug/L  
RT: 4.153 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



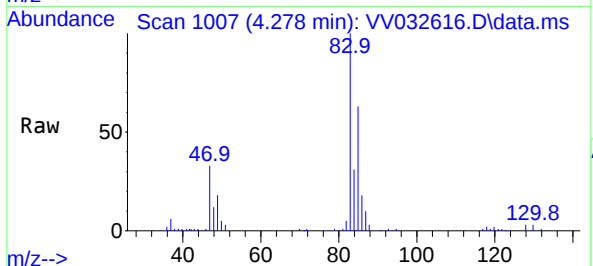
Tgt Ion:128 Resp: 16990  
Ion Ratio Lower Upper  
128 100  
49 173.5 121.2 225.0  
130 129.7 88.2 163.8  
51 54.0 45.1 67.7





#25  
Chloroform  
Concen: 5.046 ug/L  
RT: 4.278 min Scan# 1007  
Delta R.T. -0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

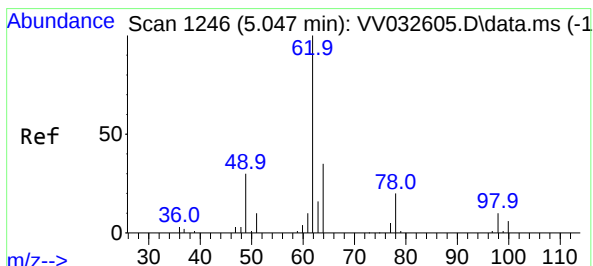
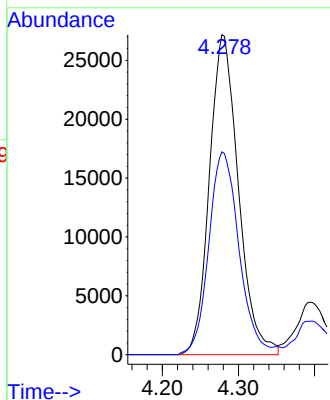
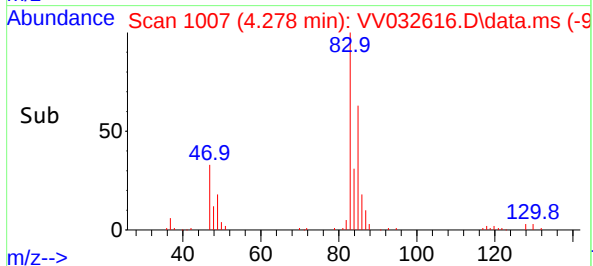
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



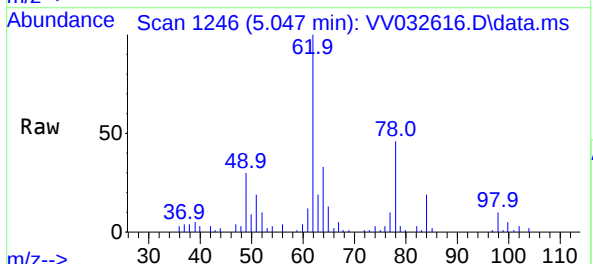
Tgt Ion: 83 Resp: 7197  
Ion Ratio Lower Upper  
83 100  
85 63.4 45.4 84.4

Manual Integrations  
APPROVED

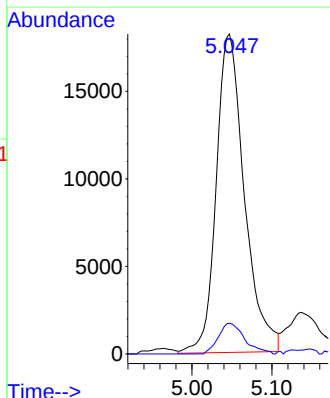
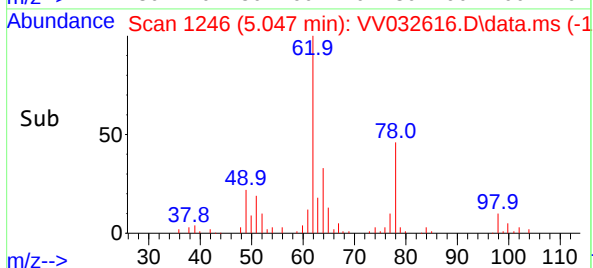
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

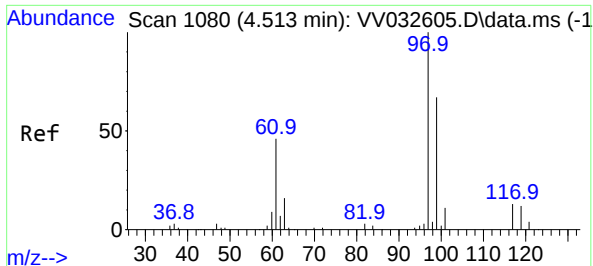


#27  
1,2-Dichloroethane  
Concen: 5.283 ug/L  
RT: 5.047 min Scan# 1246  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion: 62 Resp: 44522  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.8 11.8





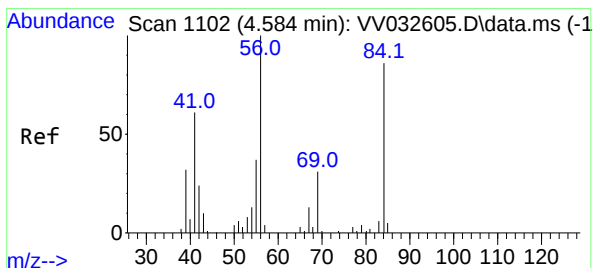
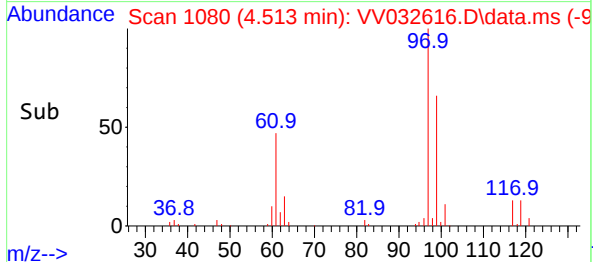
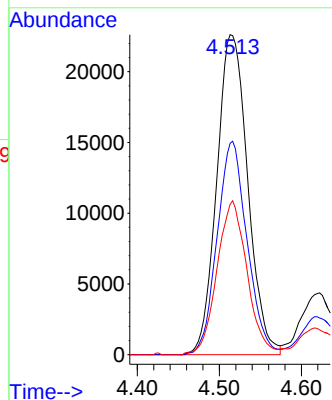
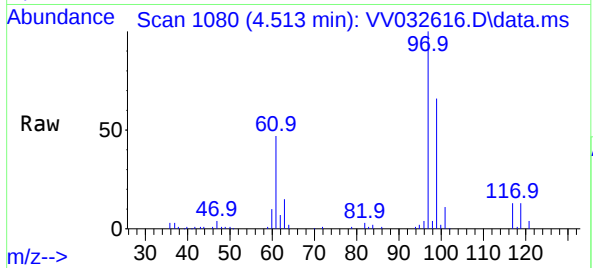
#29  
1,1,1-Trichloroethane  
Concen: 4.243 ug/L  
RT: 4.513 min Scan# 1080  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS

Tgt Ion: 97 Resp: 5943  
Ion Ratio Lower Upper  
97 100  
99 64.5 50.1 75.1  
61 46.5 35.1 52.7

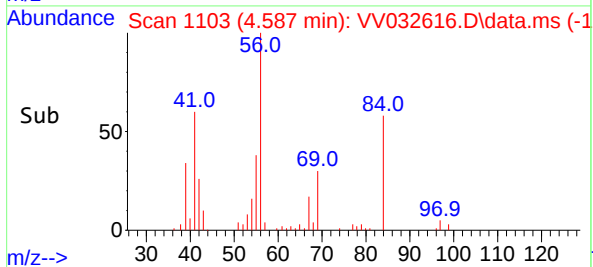
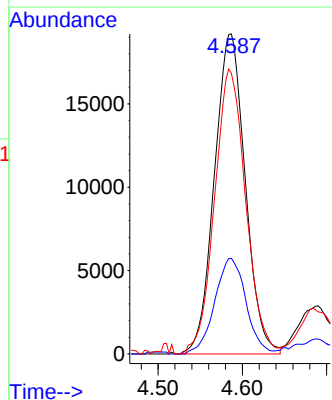
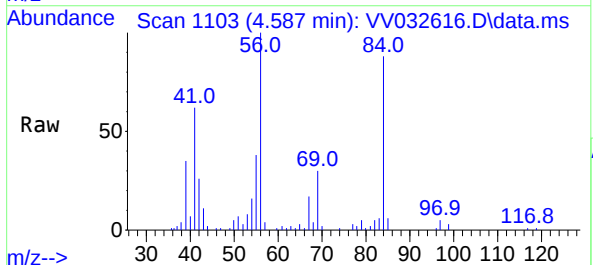
Manual Integrations  
APPROVED

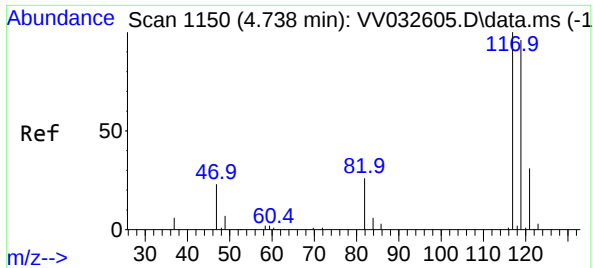
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#30  
Cyclohexane  
Concen: 3.169 ug/L  
RT: 4.587 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Tgt Ion: 56 Resp: 48787  
Ion Ratio Lower Upper  
56 100  
69 30.2 24.2 36.2  
84 89.7 68.1 102.1





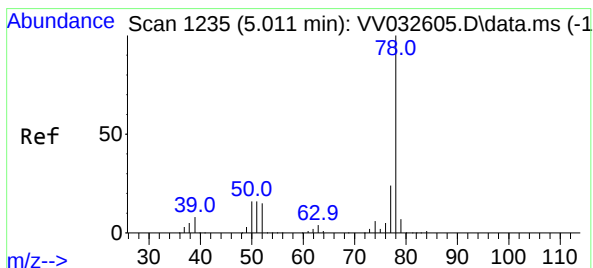
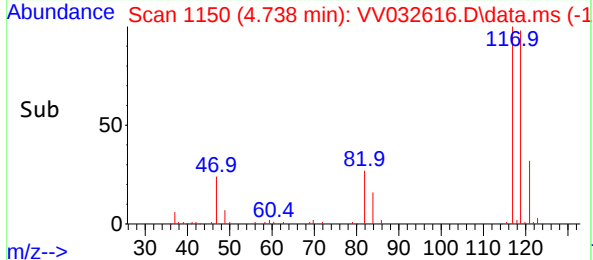
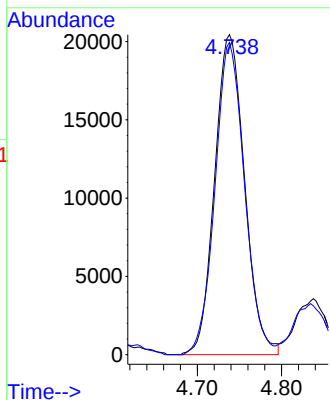
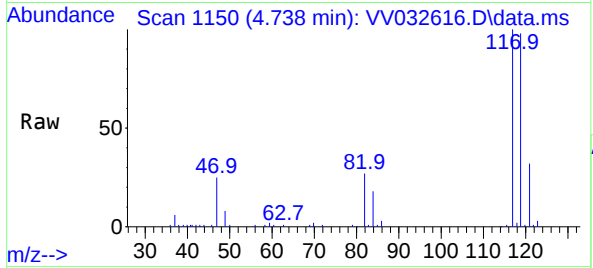
#31  
Carbon tetrachloride  
Concen: 4.253 ug/L  
RT: 4.738 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument : MSVOA\_V  
ClientSampleId : A4937MS

Tgt Ion:117 Resp: 50412  
Ion Ratio Lower Upper  
117 100  
119 96.0 77.6 116.4

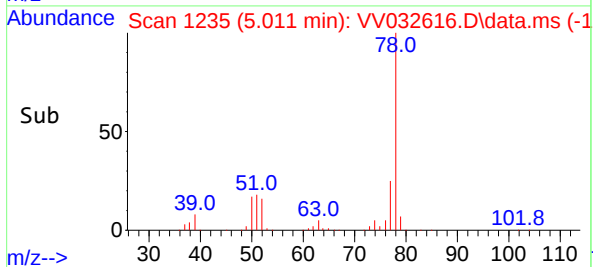
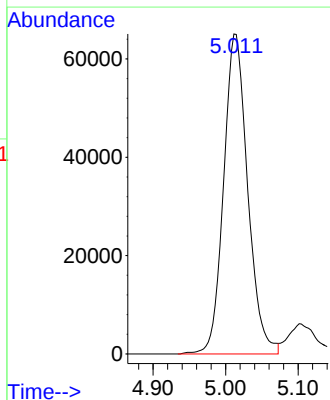
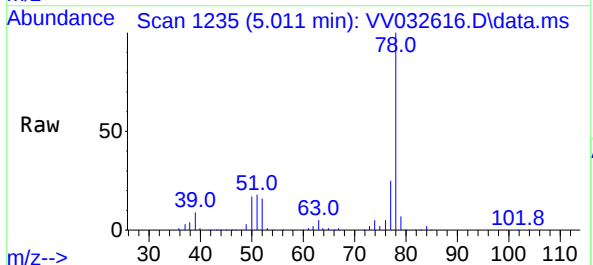
Manual Integrations  
APPROVED

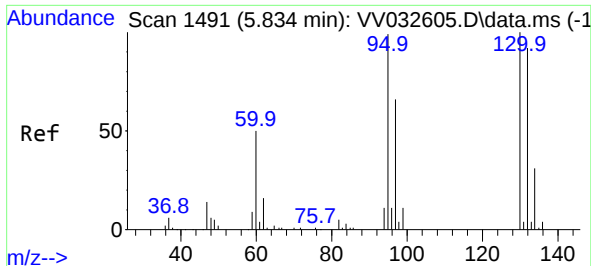
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#33  
Benzene  
Concen: 4.141 ug/L  
RT: 5.011 min Scan# 1235  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

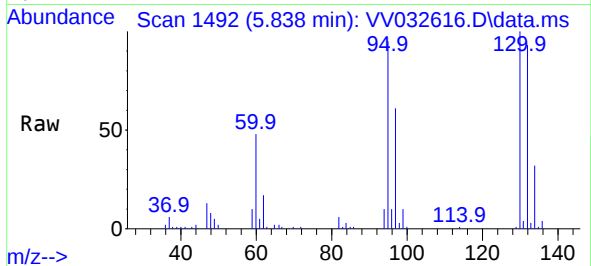
Tgt Ion: 78 Resp: 150198





#34  
Trichloroethene  
Concen: 3.752 ug/L  
RT: 5.838 min Scan# 1491  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

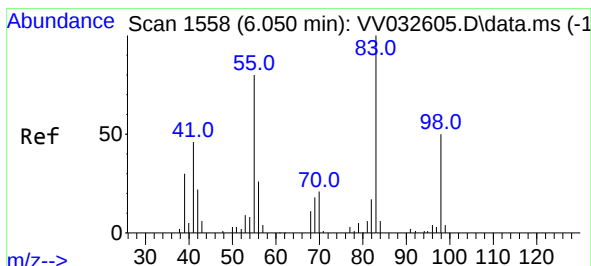
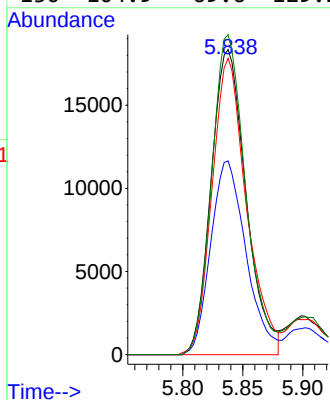
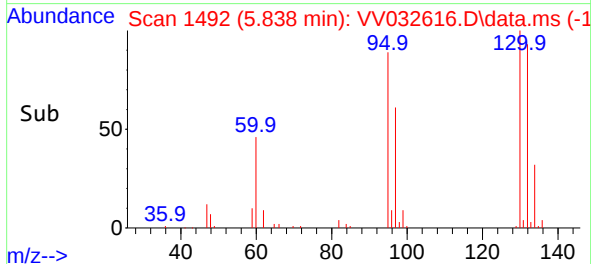
Instrument :  
MSVOA\_V  
Client Sample Id :  
A4937MS



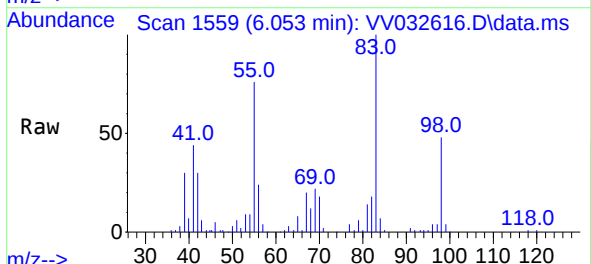
Tgt Ion: 95 Resp: 3715  
Ion Ratio Lower Upper  
95 100  
97 63.5 45.7 84.9  
132 97.1 70.3 130.5  
130 104.9 69.6 129.2

Manual Integrations  
APPROVED

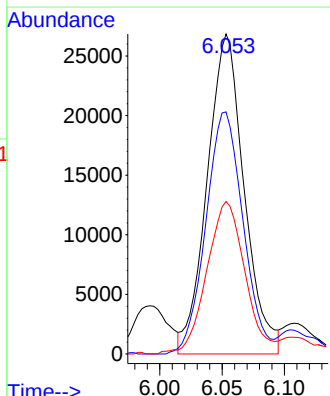
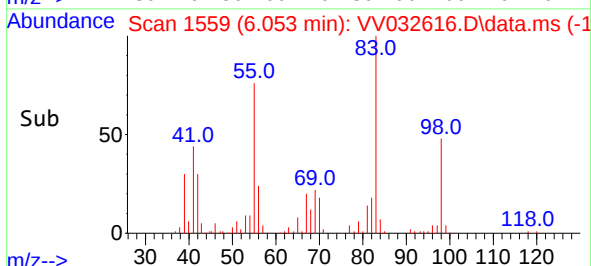
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

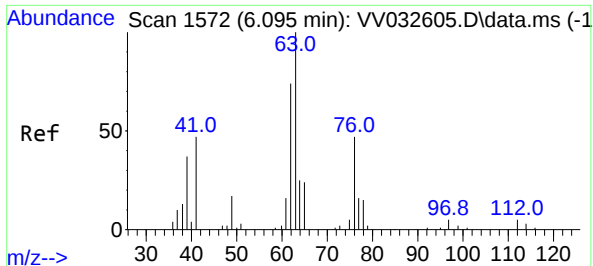


#35  
Methylcyclohexane  
Concen: 3.615 ug/L  
RT: 6.053 min Scan# 1559  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion: 83 Resp: 55395  
Ion Ratio Lower Upper  
83 100  
55 76.3 64.2 96.2  
98 48.9 39.6 59.4





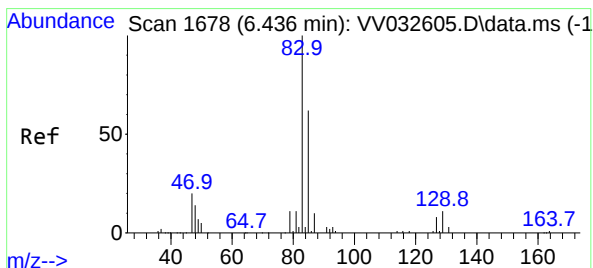
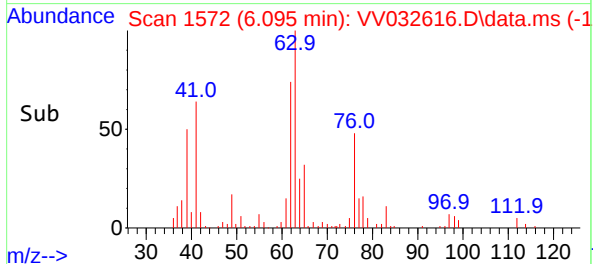
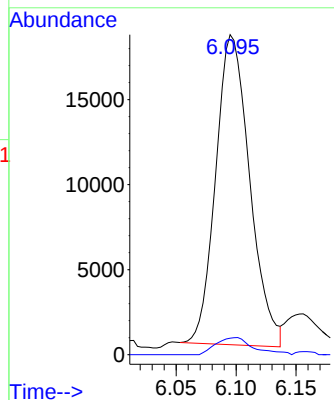
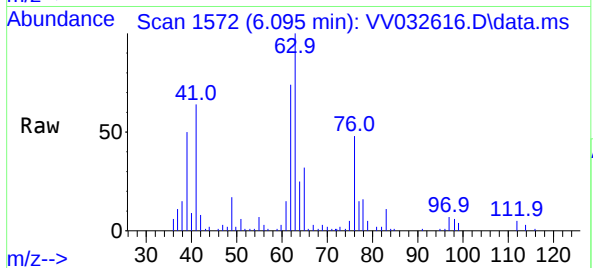
#37  
1,2-Dichloropropane  
Concen: 3.709 ug/L  
RT: 6.095 min Scan# 1572  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS

Tgt Ion: 63 Resp: 35980  
Ion Ratio Lower Upper  
63 100  
112 6.0 3.4 5.2

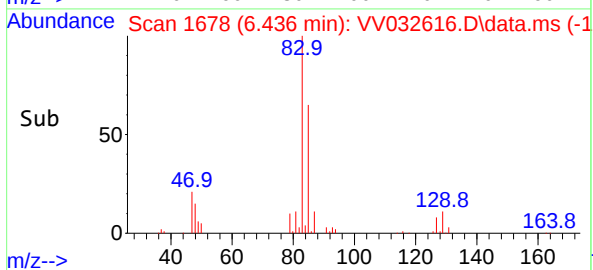
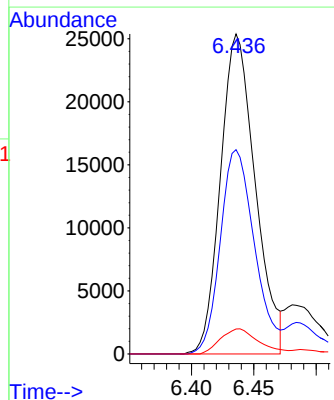
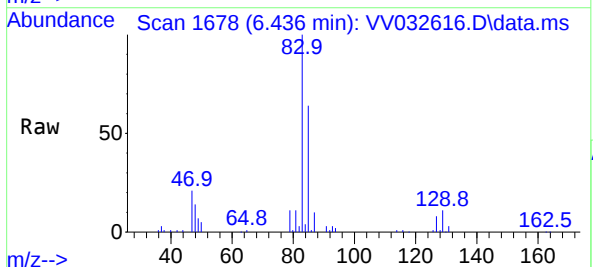
Manual Integrations  
APPROVED

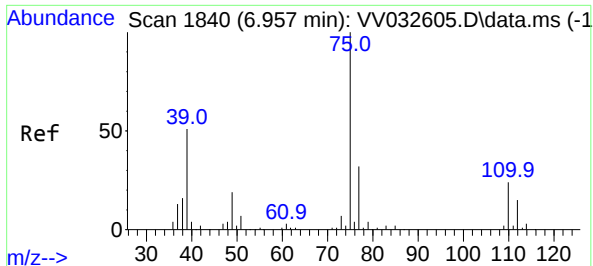
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#38  
Bromodichloromethane  
Concen: 4.274 ug/L  
RT: 6.436 min Scan# 1678  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

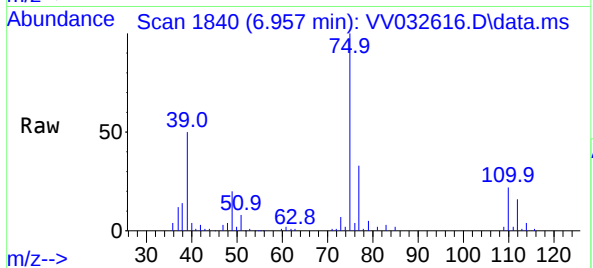
Tgt Ion: 83 Resp: 49263  
Ion Ratio Lower Upper  
83 100  
85 63.8 44.9 83.3  
127 7.8 6.9 10.3





#39  
cis-1,3-Dichloropropene  
Concen: 4.033 ug/L  
RT: 6.957 min Scan# 1840  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

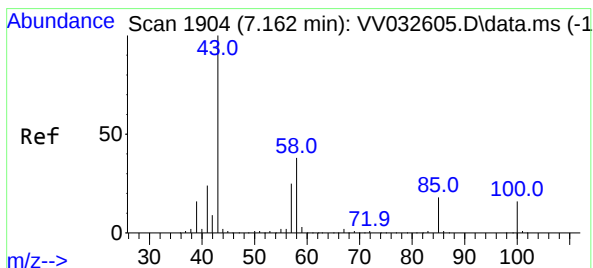
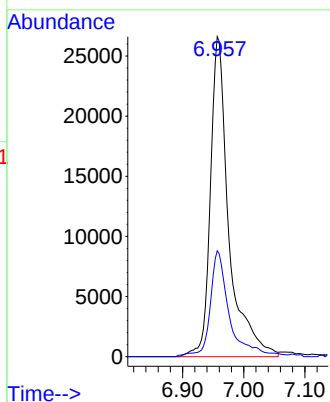
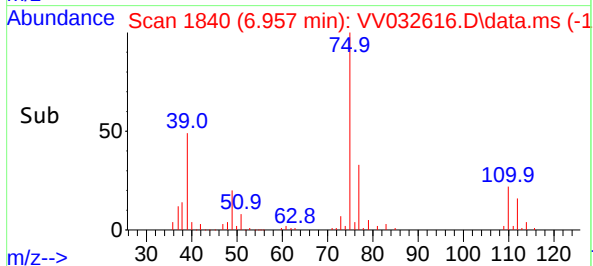
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



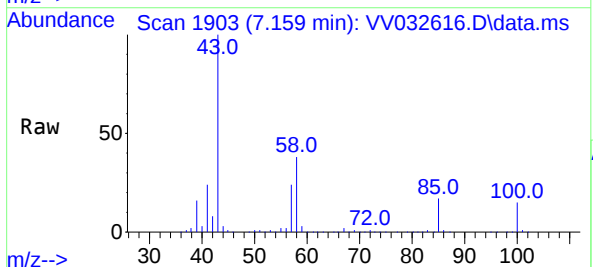
Tgt Ion: 75 Resp: 55679  
Ion Ratio Lower Upper  
75 100  
77 33.1 22.2 41.2

Manual Integrations  
APPROVED

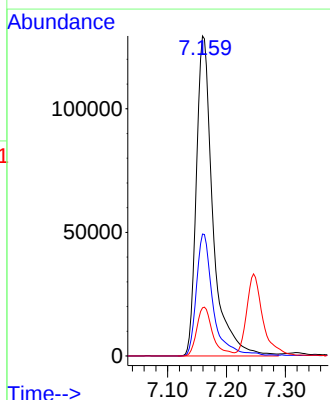
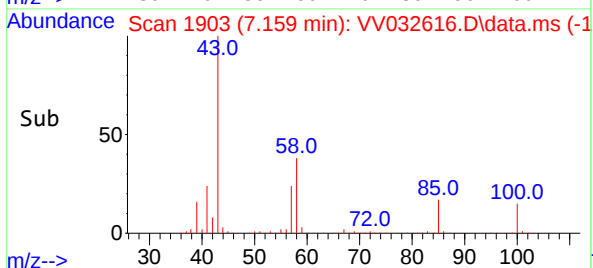
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

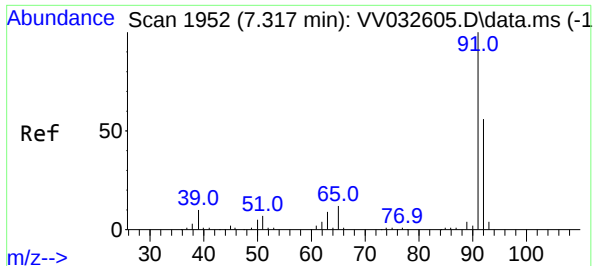


#40  
4-Methyl-2-pentanone  
Concen: 41.274 ug/L  
RT: 7.159 min Scan# 1903  
Delta R.T. -0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion: 43 Resp: 253378  
Ion Ratio Lower Upper  
43 100  
58 38.4 31.9 47.9  
100 14.7 11.3 16.9





#42

Toluene

Concen: 4.572 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

Instrument :

MSVOA\_V

ClientSampleId :

A4937MS

Tgt Ion: 91 Resp: 17678

Ion Ratio Lower Upper

91 100

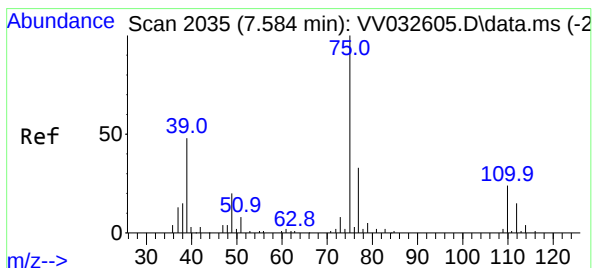
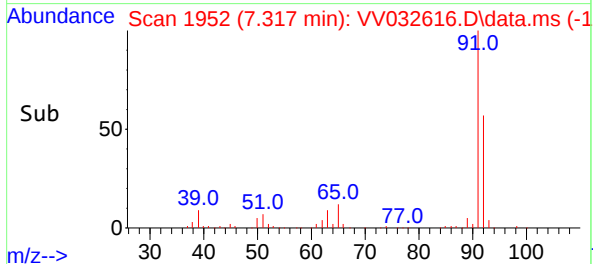
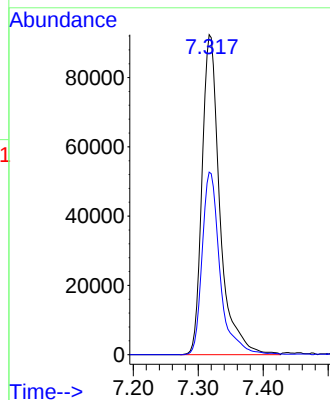
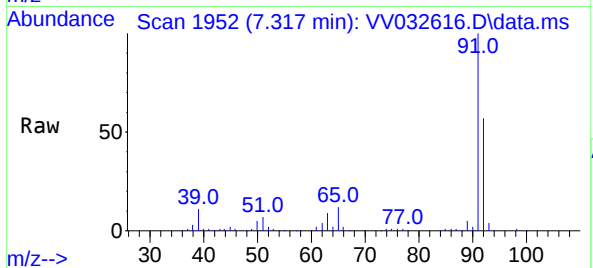
92 57.1 40.8 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/25/2023

Supervised By :Mahesh Dadoda 10/26/2023



#44

trans-1,3-Dichloropropene

Concen: 4.314 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. 0.003 min

Lab File: VV032616.D

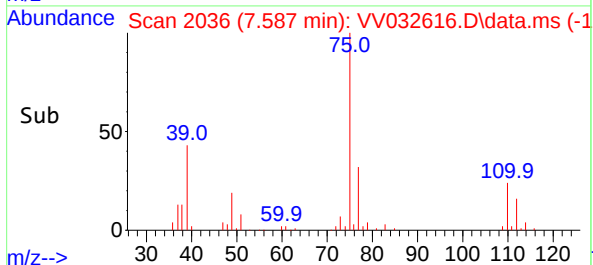
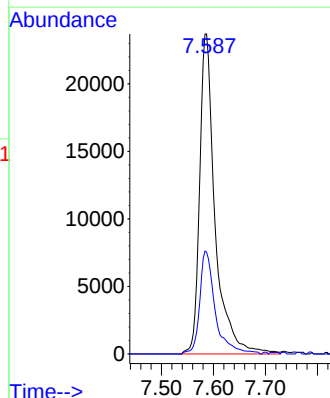
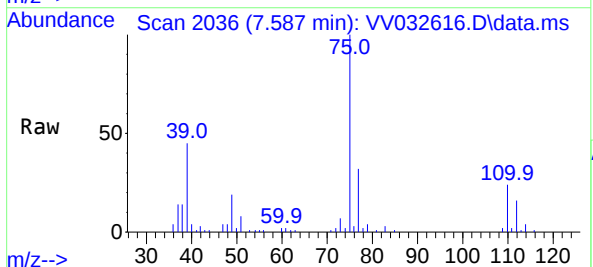
Acq: 25 Oct 2023 02:12

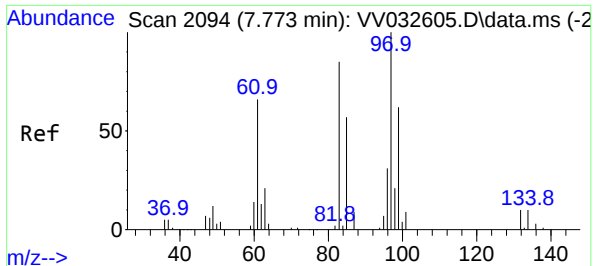
Tgt Ion: 75 Resp: 48944

Ion Ratio Lower Upper

75 100

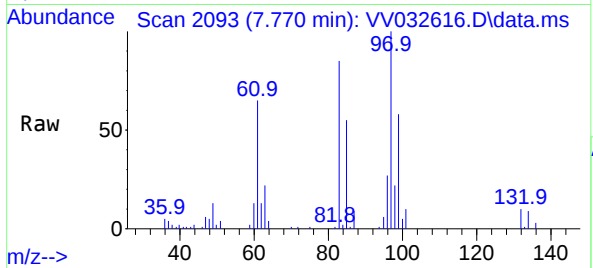
77 31.7 22.5 41.7





#45  
1,1,2-Trichloroethane  
Concen: 4.688 ug/L  
RT: 7.770 min Scan# 2094  
Delta R.T. -0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument : MSVOA\_V  
ClientSampleId : A4937MS

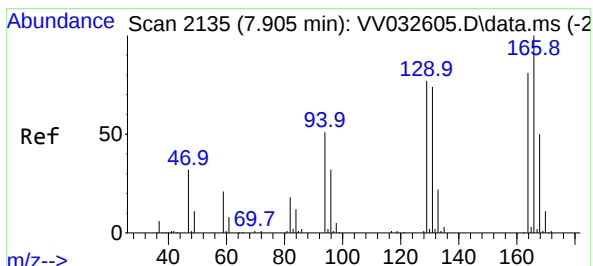
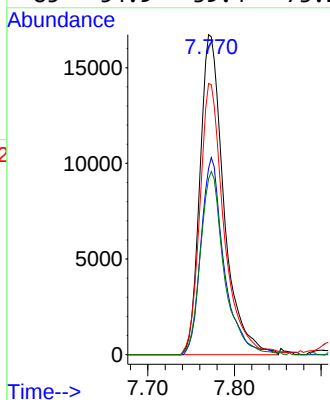
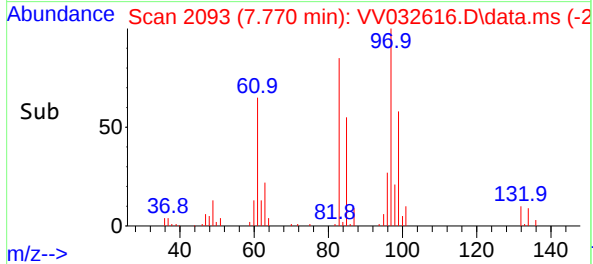


Tgt Ion: 97 Resp: 32080

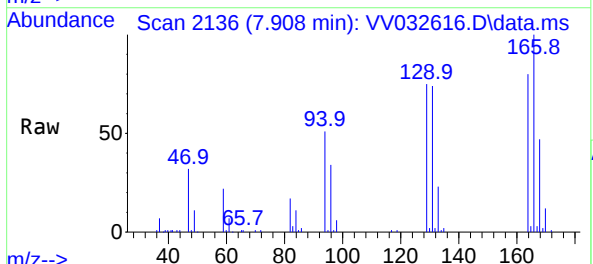
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 58.3  | 42.8  | 79.4  |
| 83  | 84.8  | 60.9  | 113.1 |
| 85  | 54.9  | 39.4  | 73.2  |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

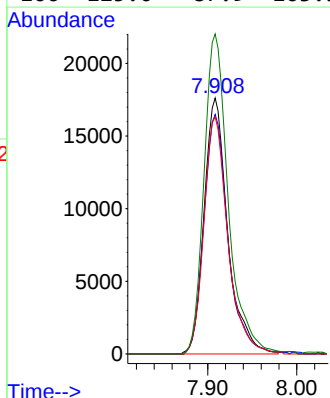
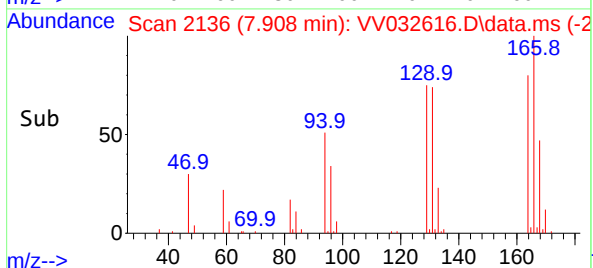


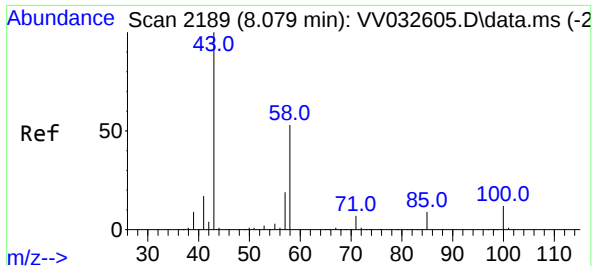
#47  
Tetrachloroethene  
Concen: 4.334 ug/L  
RT: 7.908 min Scan# 2136  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion:164 Resp: 32543

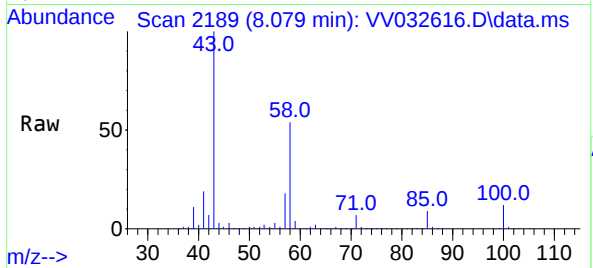
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 93.6  | 66.4  | 123.4 |
| 131 | 92.6  | 63.7  | 118.3 |
| 166 | 125.0 | 87.9  | 163.3 |





#48  
2-Hexanone  
Concen: 42.590 ug/L  
RT: 8.079 min Scan# 2189  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

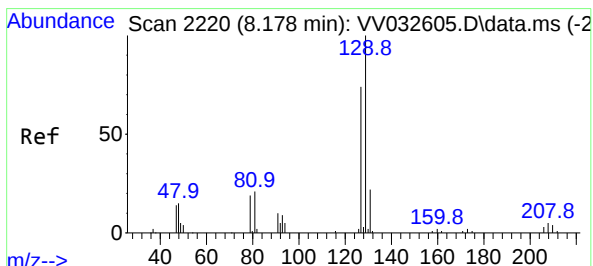
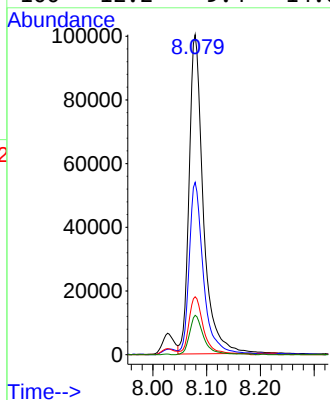
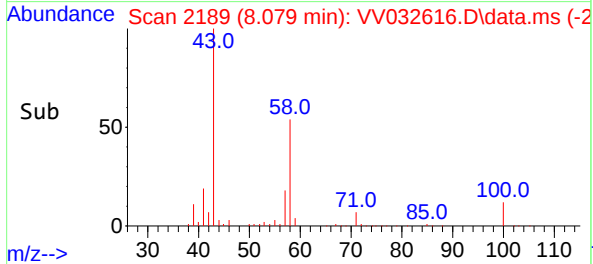
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



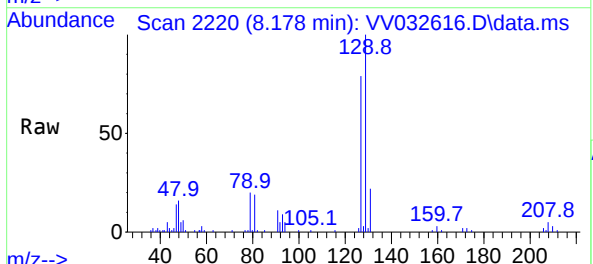
Tgt Ion: 43 Resp: 18447  
Ion Ratio Lower Upper  
43 100  
58 53.4 43.6 65.4  
57 18.9 14.6 22.0  
100 12.2 9.4 14.0

Manual Integrations  
APPROVED

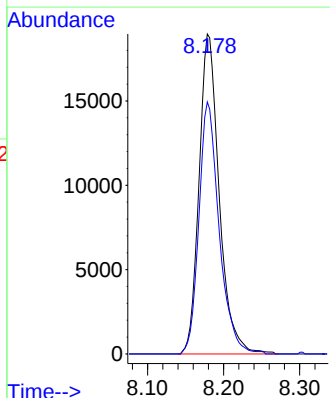
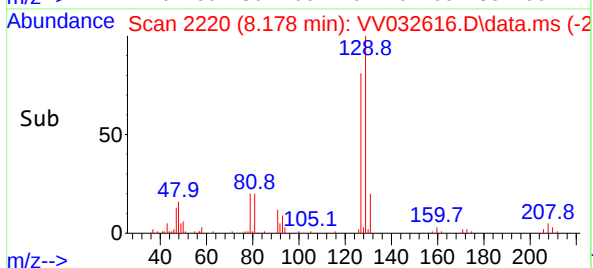
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

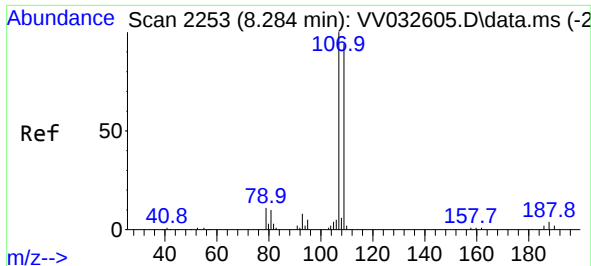


#49  
Dibromochloromethane  
Concen: 4.905 ug/L  
RT: 8.178 min Scan# 2220  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



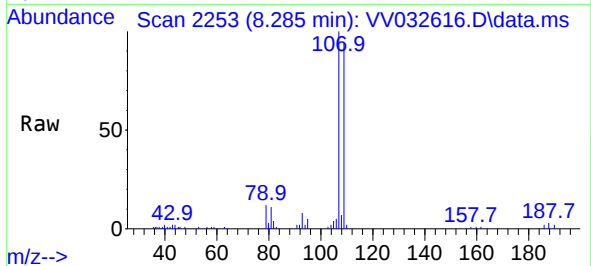
Tgt Ion:129 Resp: 34947  
Ion Ratio Lower Upper  
129 100  
127 78.8 57.2 106.2





#50  
1,2-Dibromoethane  
Concen: 4.387 ug/L  
RT: 8.285 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

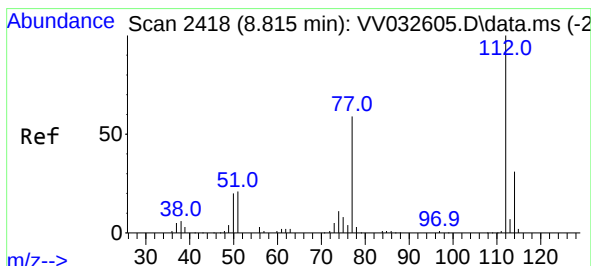
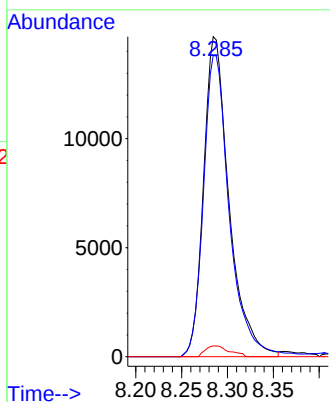
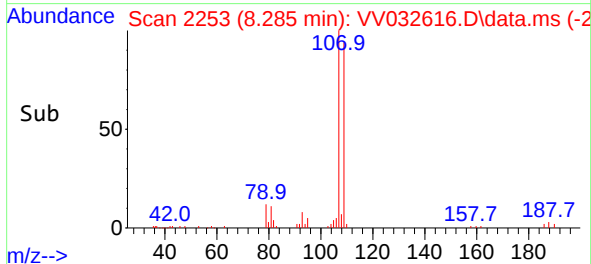
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



Tgt Ion:107 Resp: 2839  
Ion Ratio Lower Upper  
107 100  
109 94.2 68.4 127.0  
188 3.3 3.2 4.8

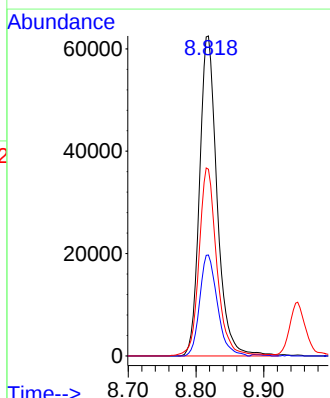
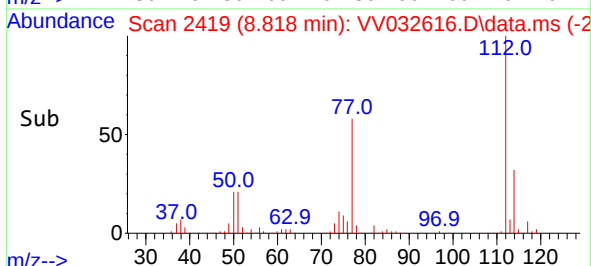
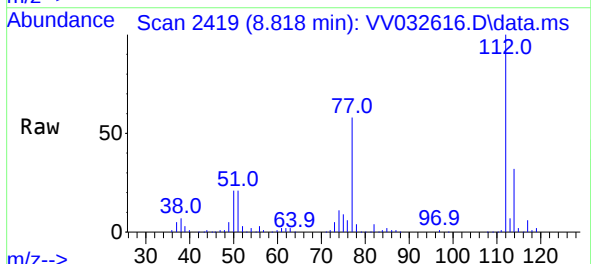
Manual Integrations  
APPROVED

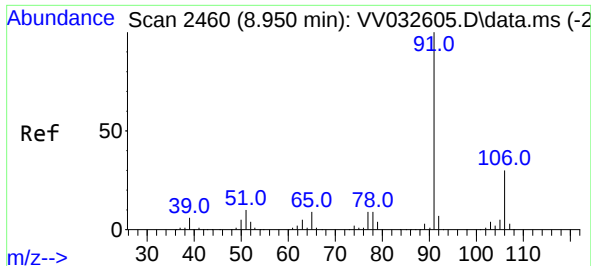
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#51  
Chlorobenzene  
Concen: 4.519 ug/L  
RT: 8.818 min Scan# 2419  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

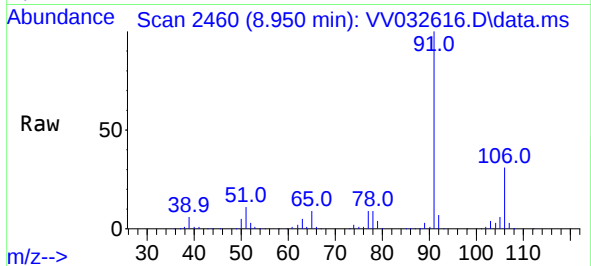
Tgt Ion:112 Resp: 112502  
Ion Ratio Lower Upper  
112 100  
114 31.6 22.1 41.1  
77 58.4 46.1 69.1





#52  
Ethylbenzene  
Concen: 4.320 ug/L  
RT: 8.950 min Scan# 2460  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

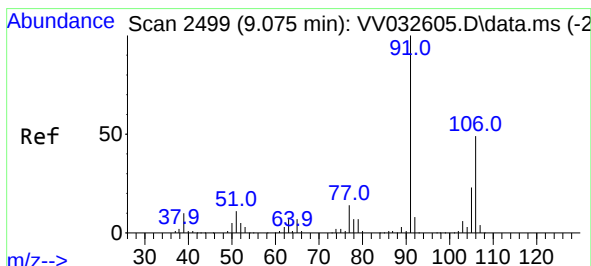
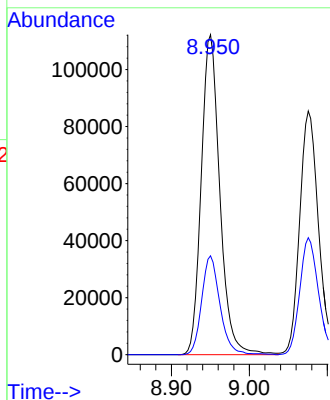
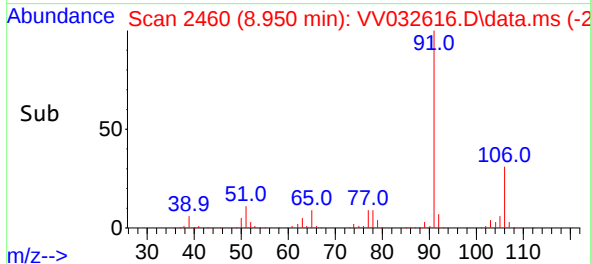
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



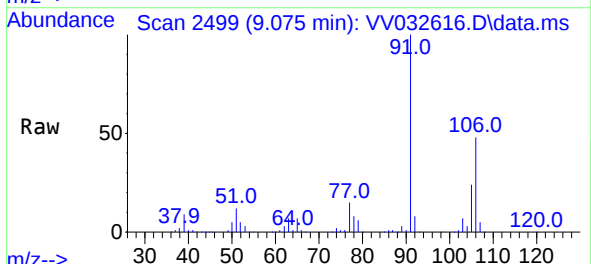
Tgt Ion: 91 Resp: 186000  
Ion Ratio Lower Upper  
91 100  
106 30.9 21.3 39.5

Manual Integrations  
APPROVED

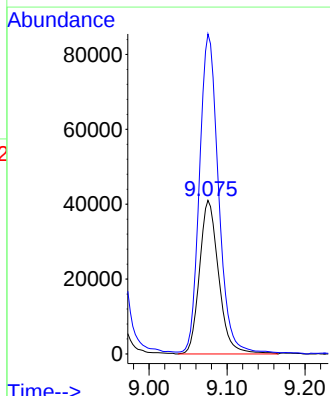
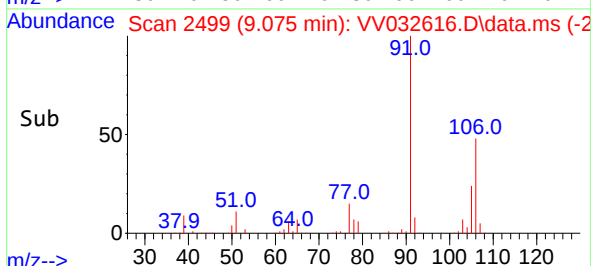
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

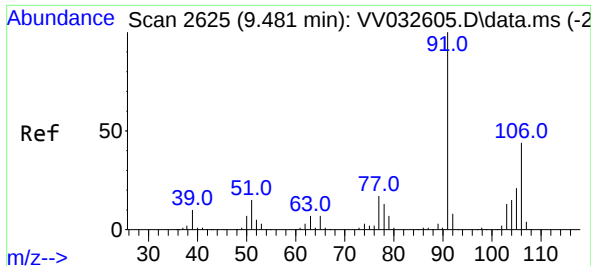


#53  
m,p-Xylene  
Concen: 4.393 ug/L  
RT: 9.075 min Scan# 2499  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion:106 Resp: 70154  
Ion Ratio Lower Upper  
106 100  
91 208.4 144.5 268.3





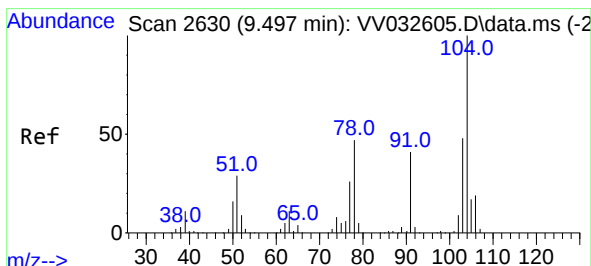
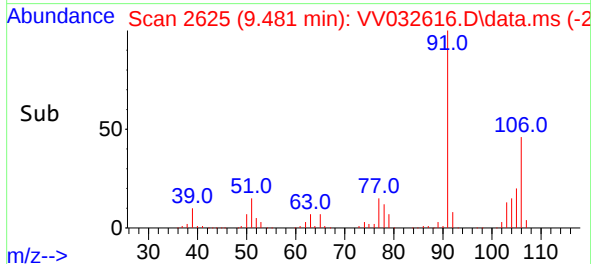
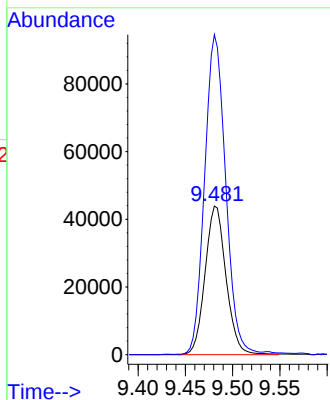
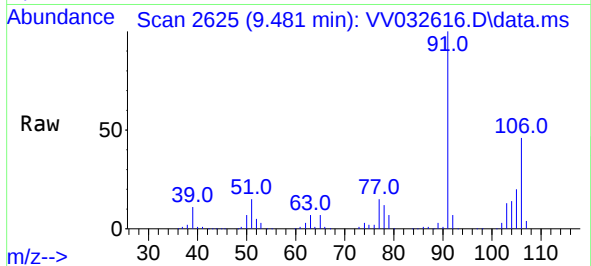
#54  
o-Xylene  
Concen: 4.401 ug/L  
RT: 9.481 min Scan# 2625  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS

Tgt Ion:106 Resp: 6772  
Ion Ratio Lower Upper  
106 100  
91 215.4 154.8 287.4

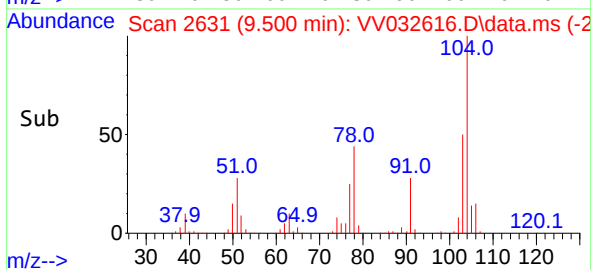
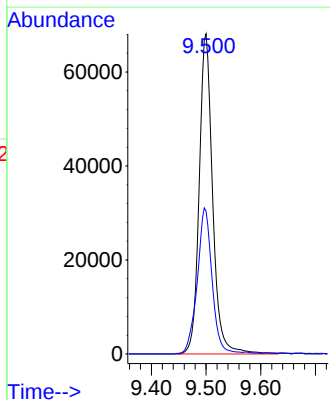
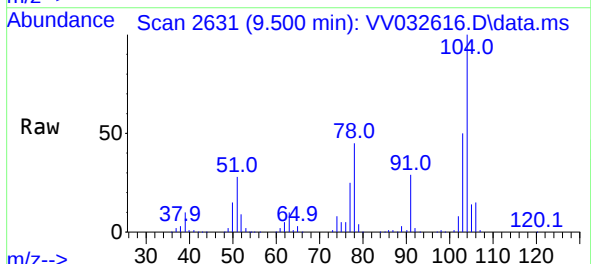
Manual Integrations  
APPROVED

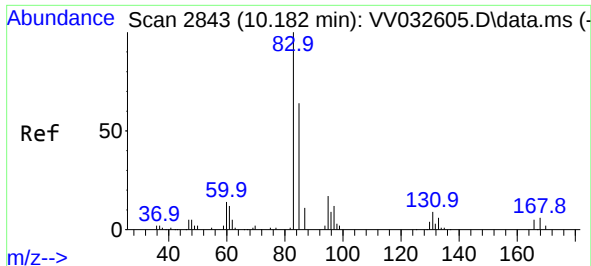
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#55  
Styrene  
Concen: 4.479 ug/L  
RT: 9.500 min Scan# 2631  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

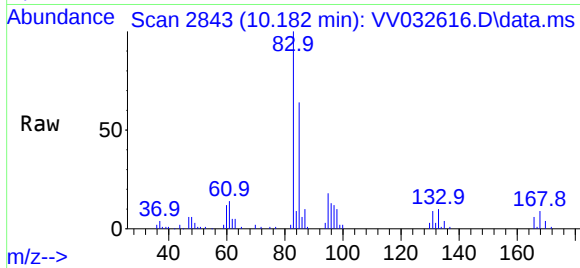
Tgt Ion:104 Resp: 116386  
Ion Ratio Lower Upper  
104 100  
78 44.7 29.9 55.5





#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.039 ug/L  
RT: 10.182 min Scan# 2843  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

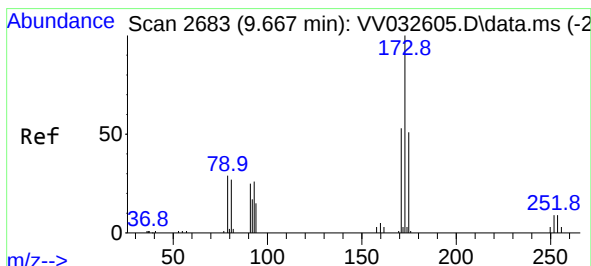
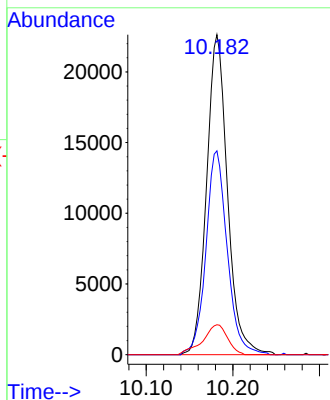
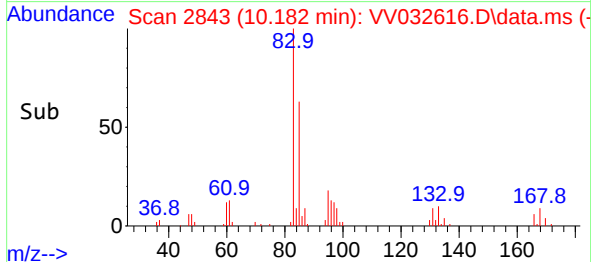
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



Tgt Ion: 83 Resp: 3794  
Ion Ratio Lower Upper  
83 100  
85 63.7 43.6 81.0  
131 9.3 7.0 10.6

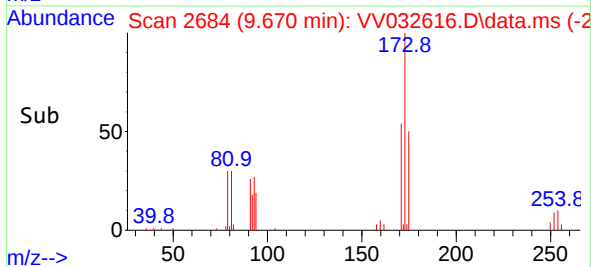
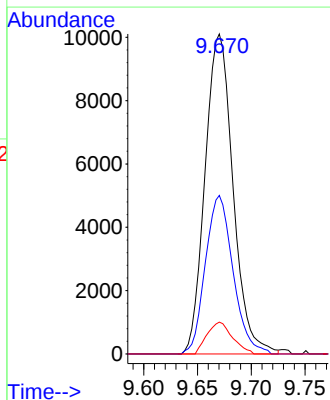
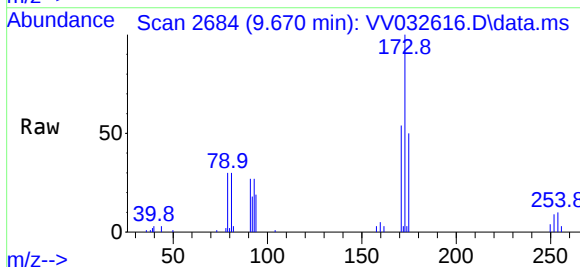
Manual Integrations  
APPROVED

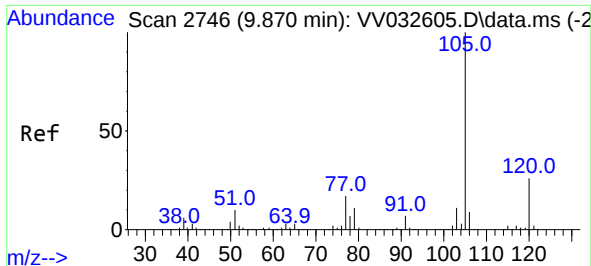
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#59  
Bromoform  
Concen: 4.638 ug/L  
RT: 9.670 min Scan# 2684  
Delta R.T. 0.003 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

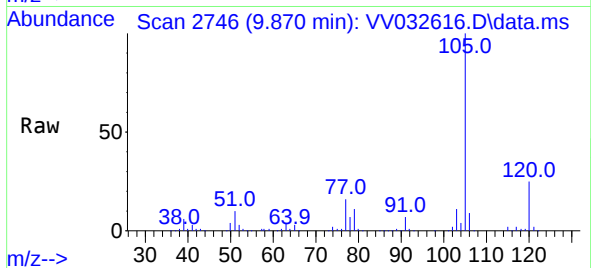
Tgt Ion:173 Resp: 18314  
Ion Ratio Lower Upper  
173 100  
175 48.9 38.2 57.2  
254 9.0 7.0 10.4





#60  
Isopropylbenzene  
Concen: 4.360 ug/L  
RT: 9.870 min Scan# 2746  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

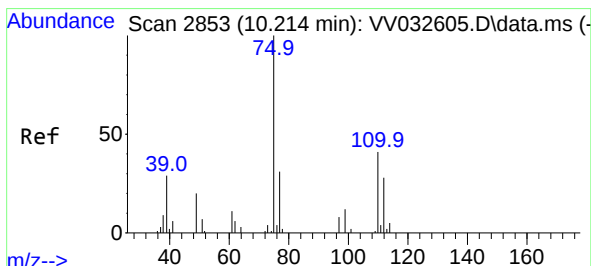
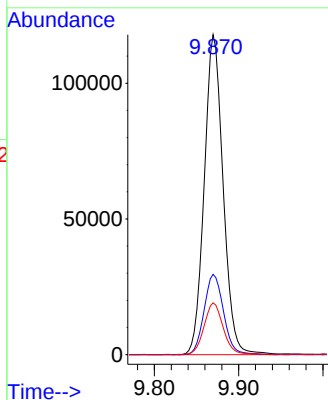
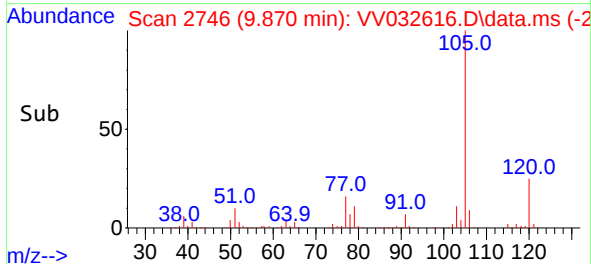
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



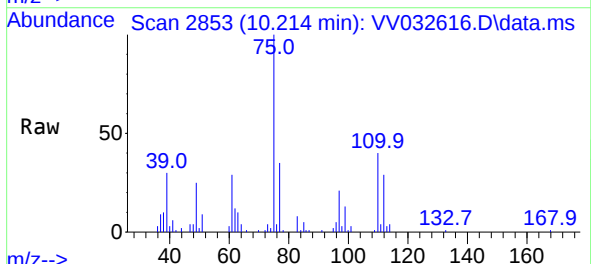
Tgt Ion:105 Resp: 18399  
Ion Ratio Lower Upper  
105 100  
120 25.9 21.0 31.6  
77 16.6 12.6 19.0

Manual Integrations  
APPROVED

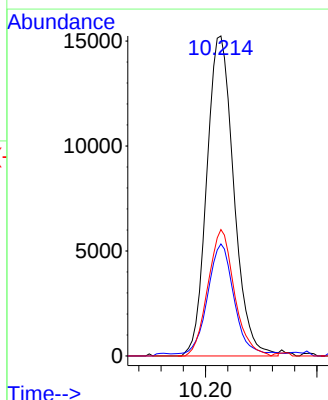
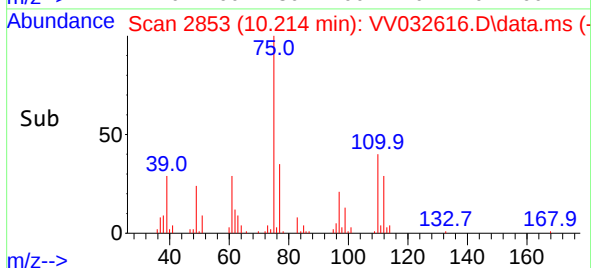
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

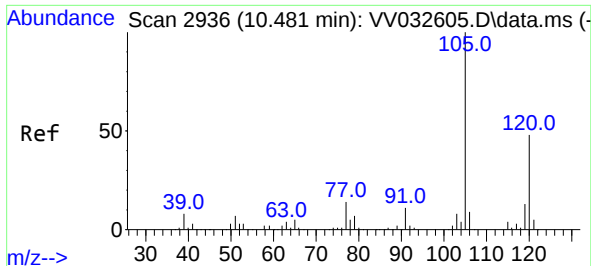


#61  
1,2,3-Trichloropropane  
Concen: 4.442 ug/L  
RT: 10.214 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion: 75 Resp: 25669  
Ion Ratio Lower Upper  
75 100  
77 32.6 26.2 39.2  
110 38.7 30.6 46.0





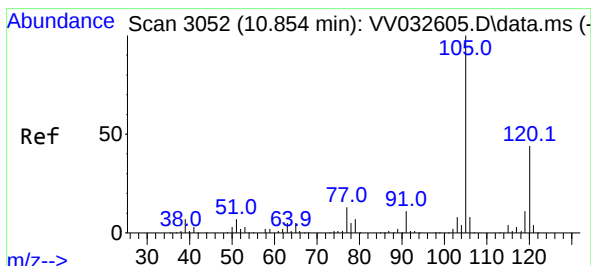
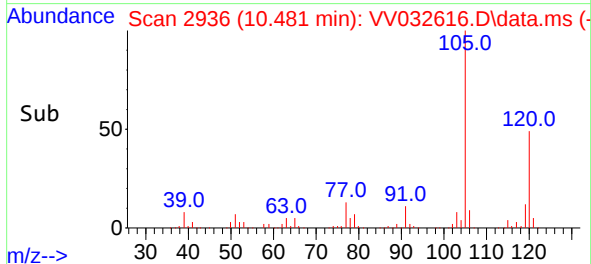
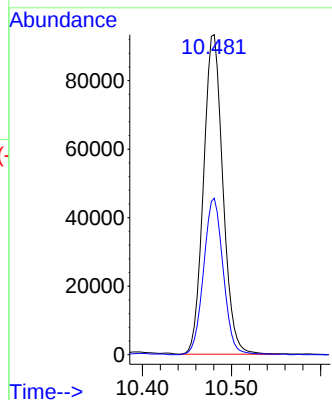
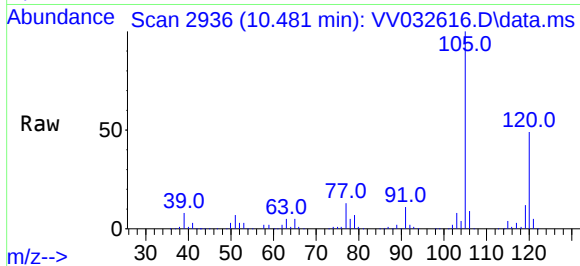
#62  
1,3,5-Trimethylbenzene  
Concen: 4.100 ug/L  
RT: 10.481 min Scan# 2936  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS

Tgt Ion:105 Resp: 141015  
Ion Ratio Lower Upper  
105 100  
120 49.5 39.9 59.9

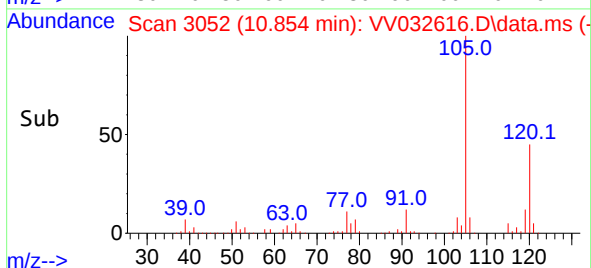
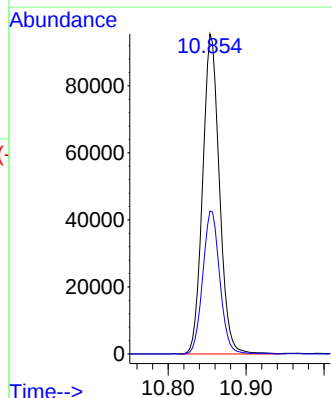
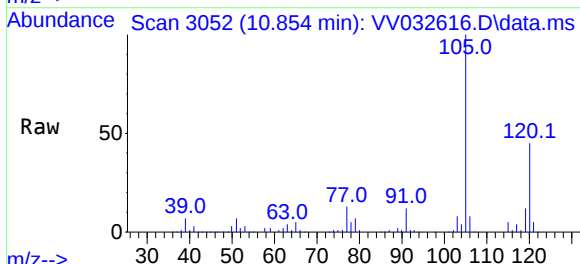
Manual Integrations  
APPROVED

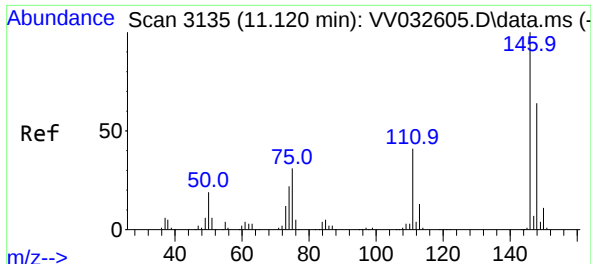
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#63  
1,2,4-Trimethylbenzene  
Concen: 4.166 ug/L  
RT: 10.854 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

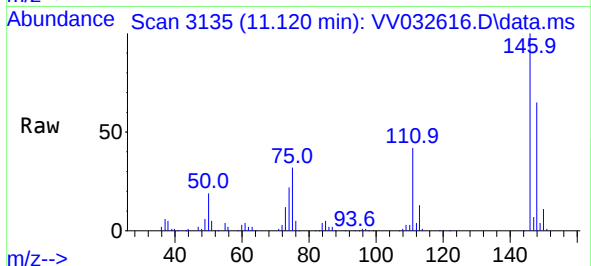
Tgt Ion:105 Resp: 142664  
Ion Ratio Lower Upper  
105 100  
120 45.5 36.2 54.4





#64  
1,3-Dichlorobenzene  
Concen: 4.434 ug/L  
RT: 11.120 min Scan# 3135  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

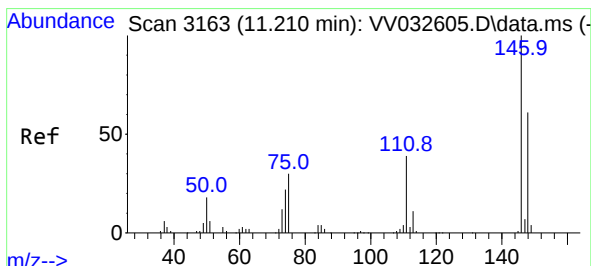
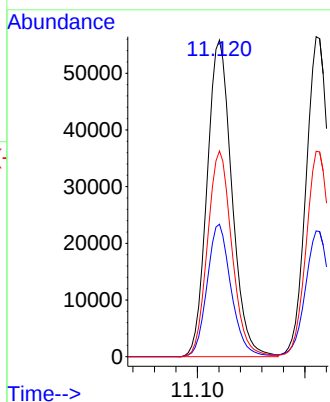
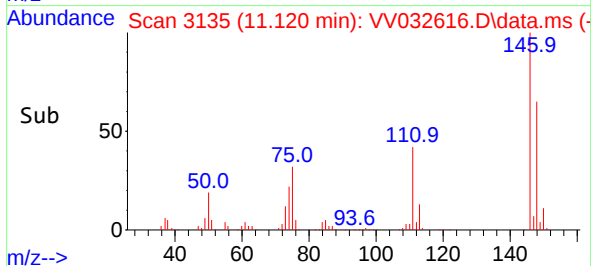
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



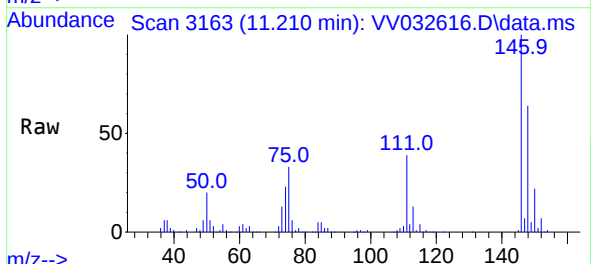
Tgt Ion:146 Resp: 8938  
Ion Ratio Lower Upper  
146 100  
111 41.8 27.8 51.6  
148 65.0 43.7 81.1

Manual Integrations  
APPROVED

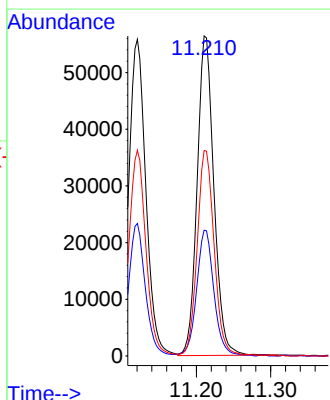
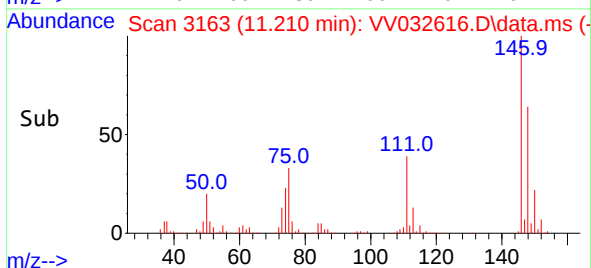
Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023

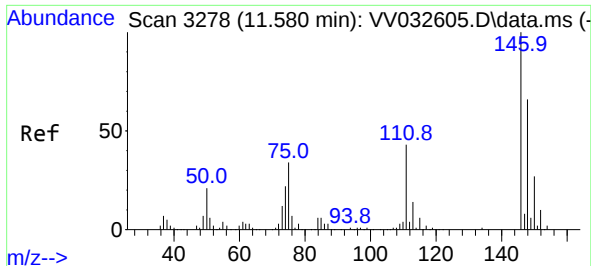


#65  
1,4-Dichlorobenzene  
Concen: 4.379 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion:146 Resp: 88565  
Ion Ratio Lower Upper  
146 100  
111 39.3 26.9 49.9  
148 64.2 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 4.524 ug/L

RT: 11.583 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

Instrument :

MSVOA\_V

ClientSampleId :

A4937MS

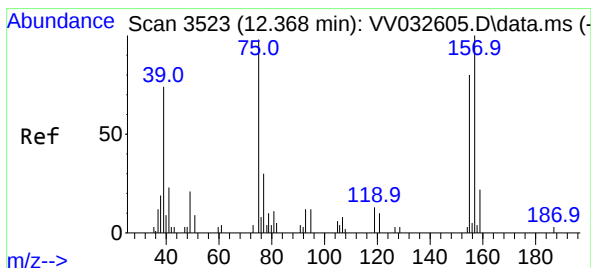
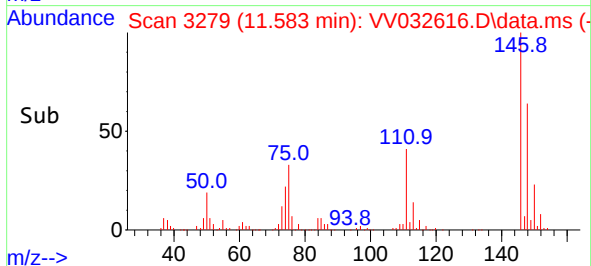
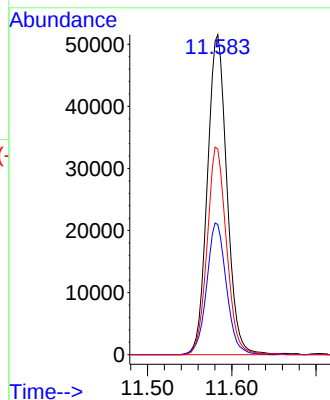
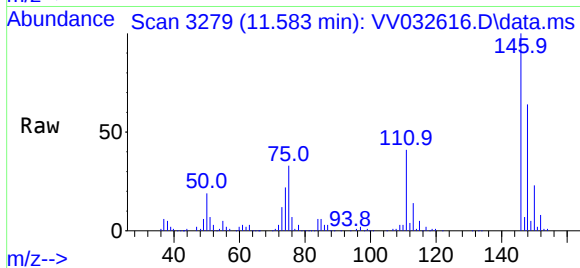
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 8317 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 40.7  | 32.8  | 49.2 |
| 148       | 64.3  | 51.0  | 76.4 |

Manual Integrations

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Reviewed By :John Carlone 10/25/2023

Supervised By :Mahesh Dadoda 10/26/2023



#68

1,2-Dibromo-3-chloropropane

Concen: 4.405 ug/L

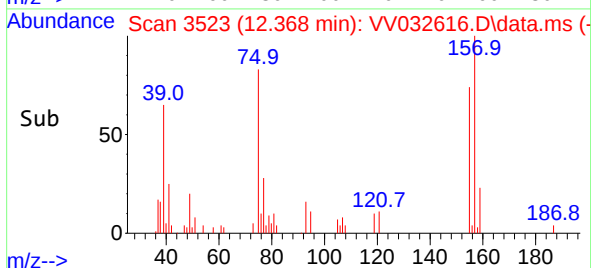
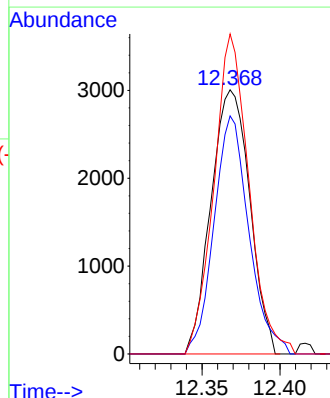
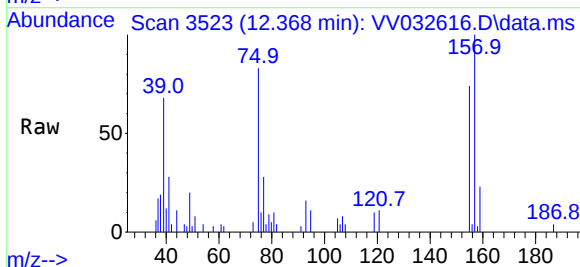
RT: 12.368 min Scan# 3523

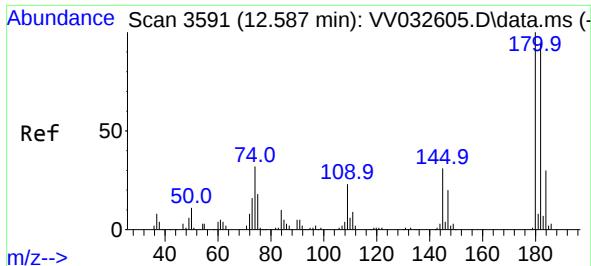
Delta R.T. 0.000 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 5201  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 90.1  | 70.2  | 105.4 |
| 157       | 121.1 | 90.6  | 135.8 |





#69

1,3,5-Trichlorobenzene

Concen: 4.061 ug/L

RT: 12.583 min Scan# 3591

Delta R.T. -0.003 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

Instrument :

MSVOA\_V

ClientSampleId :

A4937MS

Tgt Ion:180 Resp: 5994

Ion Ratio Lower Upper

180 100

182 93.8 74.6 112.0

184 30.1 24.1 36.1

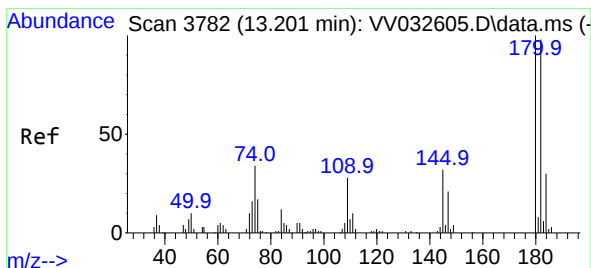
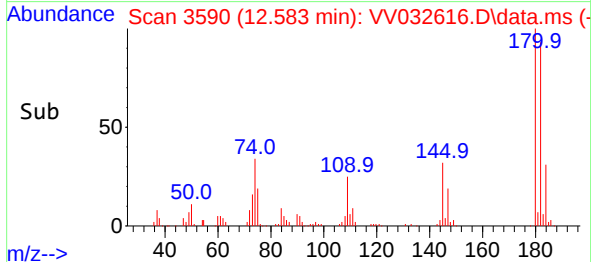
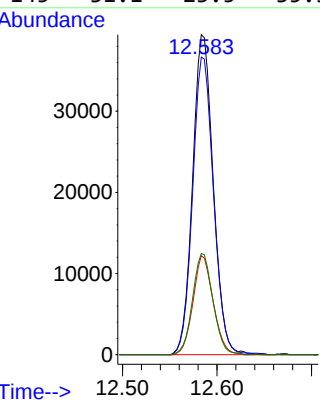
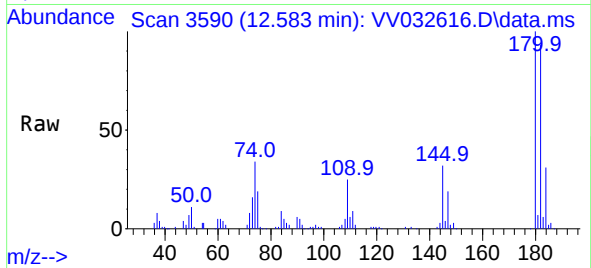
145 31.1 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/25/2023

Supervised By :Mahesh Dadoda 10/26/2023



#70

1,2,4-trichlorobenzene

Concen: 3.830 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032616.D

Acq: 25 Oct 2023 02:12

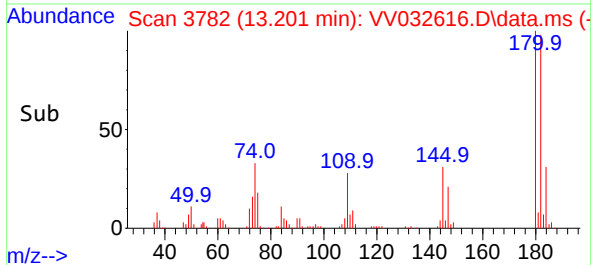
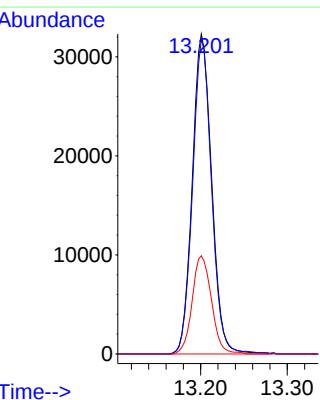
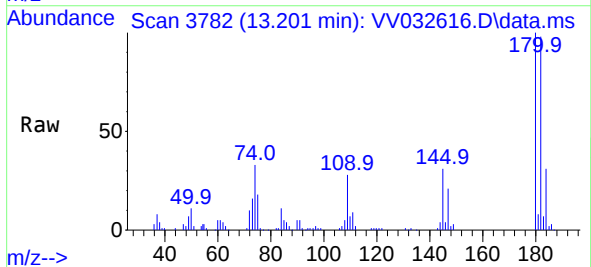
Tgt Ion:180 Resp: 50157

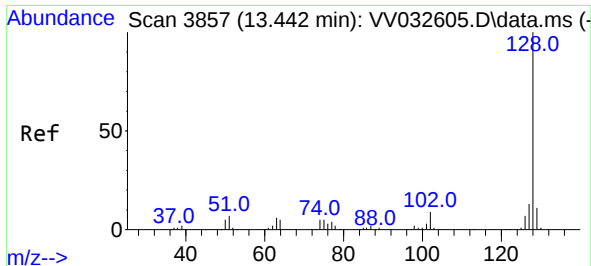
Ion Ratio Lower Upper

180 100

182 96.5 76.5 114.7

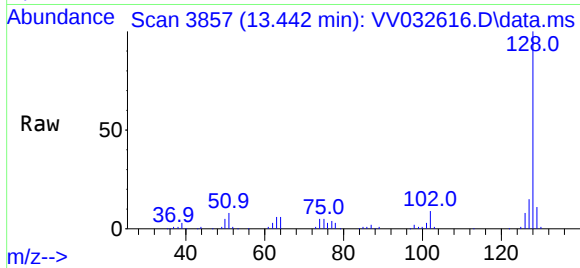
145 30.6 24.3 36.5





#71  
Naphthalene  
Concen: 3.534 ug/L  
RT: 13.442 min Scan# 3857  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12

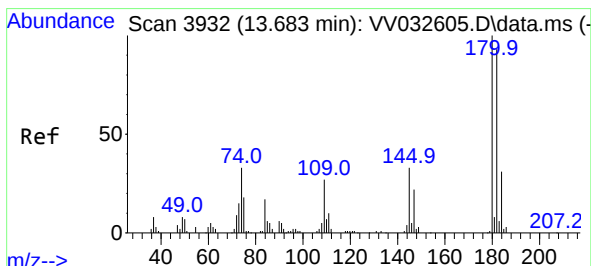
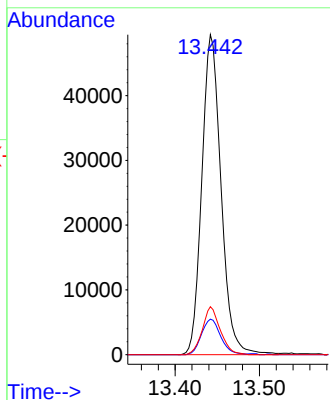
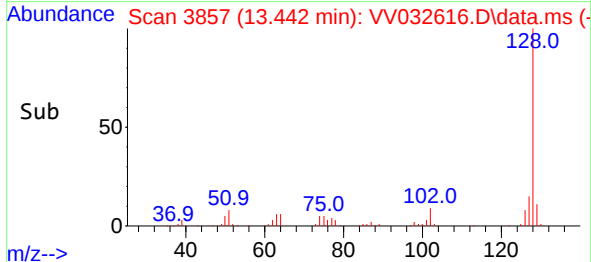
Instrument :  
MSVOA\_V  
ClientSampleId :  
A4937MS



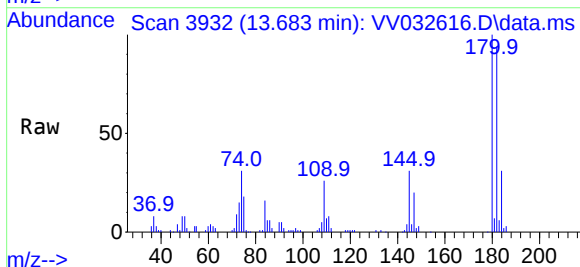
Tgt Ion:128 Resp: 78619  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.0 13.4  
127 13.9 10.2 15.2

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/25/2023  
Supervised By :Mahesh Dadoda 10/26/2023



#72  
1,2,3-Trichlorobenzene  
Concen: 4.102 ug/L  
RT: 13.683 min Scan# 3932  
Delta R.T. 0.000 min  
Lab File: VV032616.D  
Acq: 25 Oct 2023 02:12



Tgt Ion:180 Resp: 46286  
Ion Ratio Lower Upper  
180 100  
182 94.5 77.0 115.4  
145 32.2 25.7 38.5

