

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW121323\  
 Data File : VW033314.D  
 Acq On : 14 Dec 2023 06:43  
 Operator : SY/MD  
 Sample : 05770-16  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 EOY86

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
 Supervised By :Mahesh Dadoda 12/18/2023

Quant Time: Dec 14 07:52:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 14 01:07:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| Internal Standards            |        |                |          |        |          |          |
| 1) 1,4-Difluorobenzene        | 5.545  | 114            | 127286   | 5.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.802  | 117            | 121935   | 5.000  | ug/L     | 0.02     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152            | 65993    | 5.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 4) Vinyl Chloride-d3          | 1.294  | 65             | 35789    | 4.386  | ug/L     | 0.02     |
| Spiked Amount                 | 5.000  | Range 40 - 130 | Recovery | =      | 87.800%  |          |
| 7) Chloroethane-d5            | 1.552  | 69             | 28419    | 4.683  | ug/L     | 0.02     |
| Spiked Amount                 | 5.000  | Range 65 - 130 | Recovery | =      | 93.600%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.072  | 65             | 15525    | 4.780  | ug/L     | 0.01     |
| Spiked Amount                 | 5.000  | Range 60 - 125 | Recovery | =      | 95.600%  |          |
| 20) 2-Butanone-d5             | 3.944  | 46             | 35498m   | 36.762 | ug/L     | 0.15     |
| Spiked Amount                 | 50.000 | Range 40 - 130 | Recovery | =      | 73.520%  |          |
| 24) Chloroform-d              | 4.278  | 84             | 77673    | 4.564  | ug/L     | 0.03     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =      | 91.200%  |          |
| 26) 1,2-Dichloroethane-d4     | 4.960  | 65             | 41239    | 5.576  | ug/L     | 0.02     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =      | 111.600% |          |
| 32) Benzene-d6                | 4.966  | 84             | 150912   | 4.784  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =      | 95.600%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.011  | 67             | 36199    | 5.042  | ug/L     | 0.02     |
| Spiked Amount                 | 5.000  | Range 60 - 140 | Recovery | =      | 100.800% |          |
| 41) Toluene-d8                | 7.278  | 98             | 142964   | 4.651  | ug/L     | 0.04     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =      | 93.000%  |          |
| 43) trans-1,3-Dichloroprop... | 7.587  | 79             | 14323    | 4.373  | ug/L     | 0.03     |
| Spiked Amount                 | 5.000  | Range 55 - 130 | Recovery | =      | 87.400%  |          |
| 46) 2-Hexanone-d5             | 8.063  | 63             | 39079    | 42.738 | ug/L     | 0.04     |
| Spiked Amount                 | 50.000 | Range 45 - 130 | Recovery | =      | 85.480%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162 | 84             | 22904    | 4.717  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 120 | Recovery | =      | 94.400%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152            | 60423    | 5.198  | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 80 - 120 | Recovery | =      | 104.000% |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 3) Chloromethane              | 1.227  | 50             | 925      | 0.102  | ug/L #   | 79       |
| 5) Vinyl chloride             | 1.298  | 62             | 1970     | 0.214  | ug/L #   | 71       |
| 14) Carbon disulfide          | 2.252  | 76             | 10555    | 0.445  | ug/L     | 96       |
| 22) cis-1,2-Dichloroethene    | 3.844  | 96             | 5506     | 0.604  | ug/L     | 89       |
| 30) Cyclohexane               | 4.587  | 56             | 2272     | 0.211  | ug/L #   | 51       |
| 33) Benzene                   | 5.018  | 78             | 15016    | 0.460  | ug/L     | 100      |
| 34) Trichloroethene           | 5.838  | 95             | 3669     | 0.385  | ug/L     | 93       |
| 35) Methylcyclohexane         | 6.059  | 83             | 4381     | 0.311  | ug/L #   | 60       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75             | 1126     | 0.106  | ug/L     | 93       |
| 42) Toluene                   | 7.352  | 91             | 33421    | 0.893  | ug/L     | 95       |
| 51) Chlorobenzene             | 8.834  | 112            | 14175    | 0.553  | ug/L     | 94       |
| 52) Ethylbenzene              | 8.969  | 91             | 3281     | 0.078  | ug/L     | 88       |
| 53) m,p-Xylene                | 9.091  | 106            | 4684     | 0.271  | ug/L     | 85       |
| 54) o-Xylene                  | 9.493  | 106            | 1048     | 0.064  | ug/L #   | 50       |
| 60) Isopropylbenzene          | 9.876  | 105            | 71766    | 1.641  | ug/L     | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105            | 4966     | 0.140  | ug/L     | 87       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146            | 1468     | 0.066  | ug/L     | 92       |
| 65) 1,4-Dichlorobenzene       | 11.214 | 146            | 11626    | 0.525  | ug/L     | 97       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146            | 37831    | 1.978  | ug/L     | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV121323\  
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Sample : 05770-16  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 49 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

Quant Time: Dec 14 07:52:07 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Dec 14 01:07:25 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

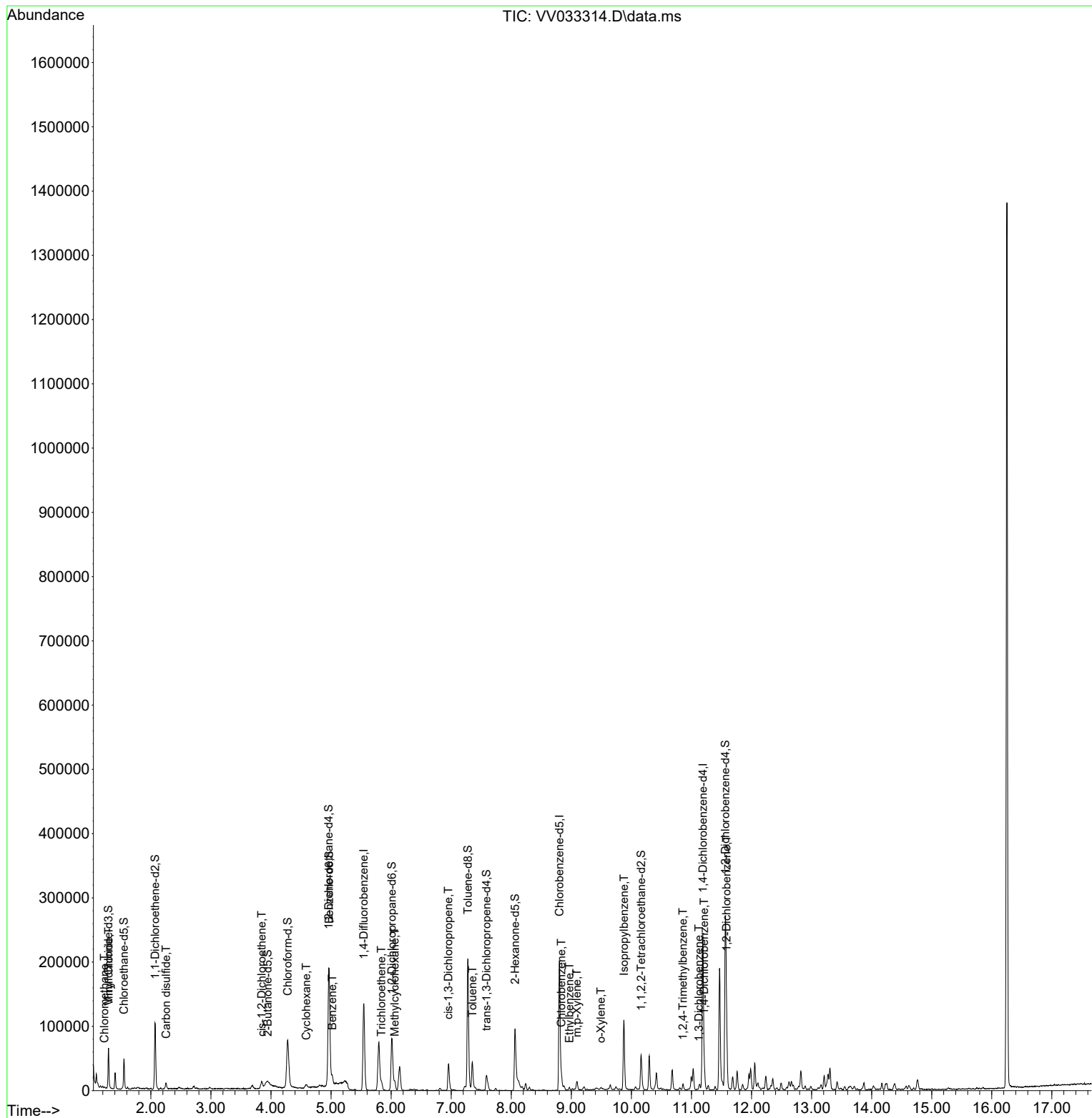
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Data File : VV033314.D  
Acq On : 14 Dec 2023 06:43  
Operator : SY/MD  
Sample : 05770-16  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 49 Sample Multiplier: 1

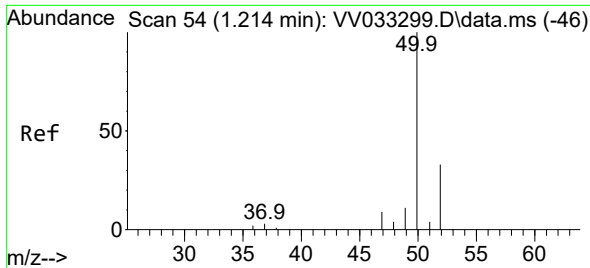
Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR121323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
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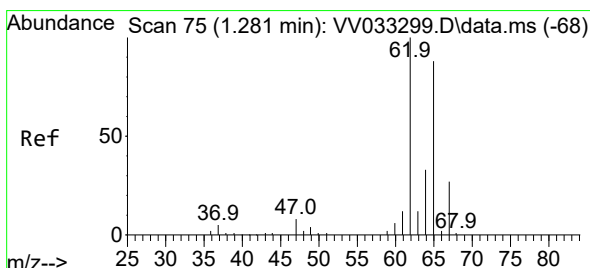
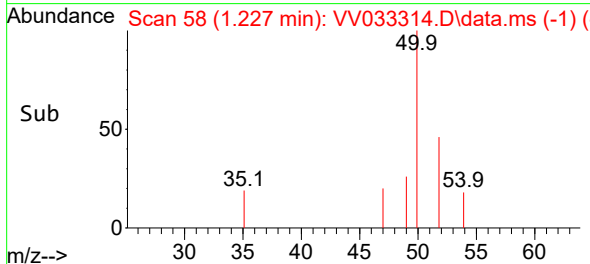
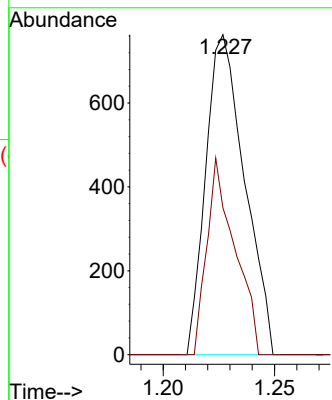
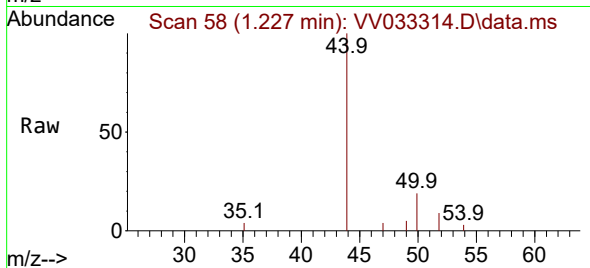
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Chloromethane  
Concen: 0.102 ug/L  
RT: 1.227 min Scan# 50  
Delta R.T. 0.013 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86

Tgt Ion: 50 Resp: 925  
Ion Ratio Lower Upper  
50 100  
52 45.9 23.8 44.2

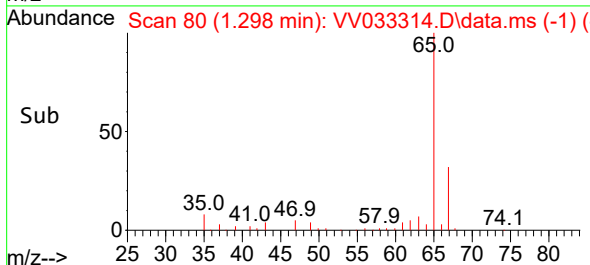
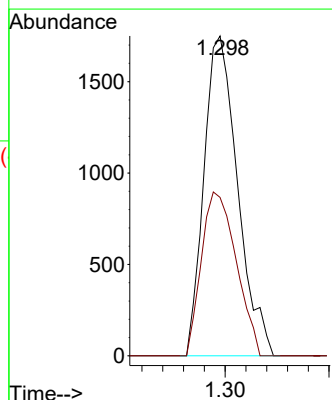
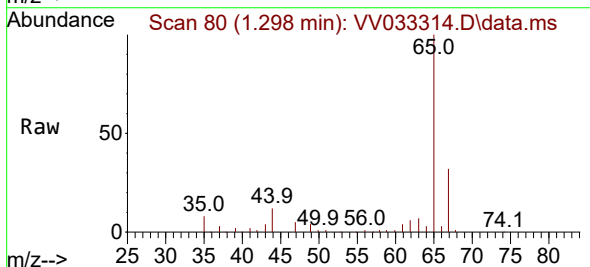
Manual Integrations  
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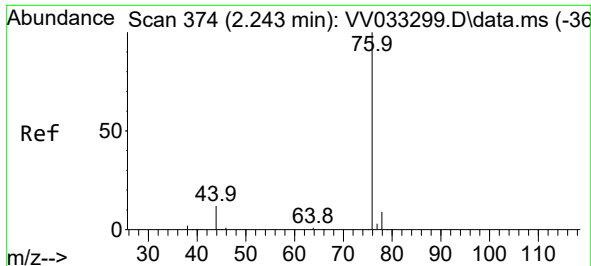
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#5  
Vinyl chloride  
Concen: 0.214 ug/L  
RT: 1.298 min Scan# 80  
Delta R.T. 0.016 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

Tgt Ion: 62 Resp: 1970  
Ion Ratio Lower Upper  
62 100  
64 49.5 23.0 42.8





#14

Carbon disulfide

Concen: 0.445 ug/L

RT: 2.252 min Scan# 31

Delta R.T. 0.010 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA\_V

ClientSampleId :

E0Y86

Tgt Ion: 76 Resp: 1055

Ion Ratio Lower Upper

76 100

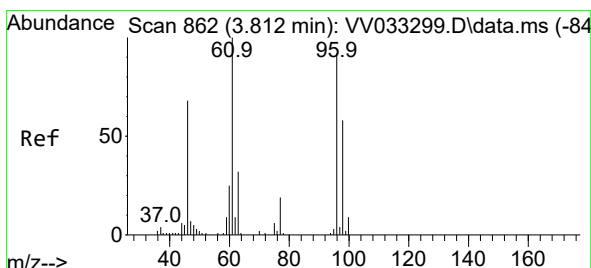
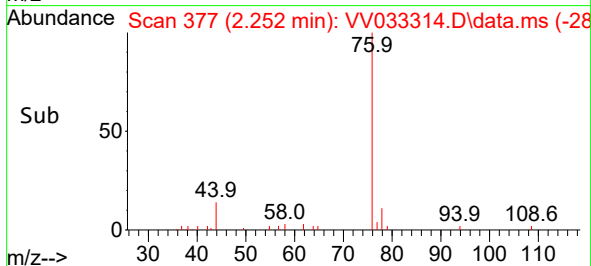
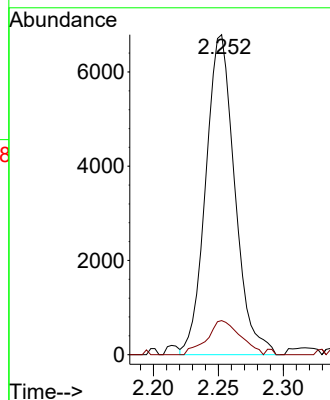
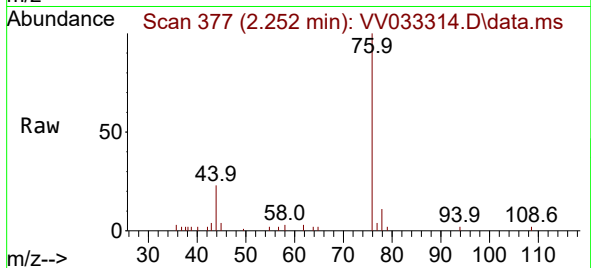
78 10.7 7.4 11.0

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 12/18/2023



#22

cis-1,2-Dichloroethene

Concen: 0.604 ug/L

RT: 3.844 min Scan# 872

Delta R.T. 0.032 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

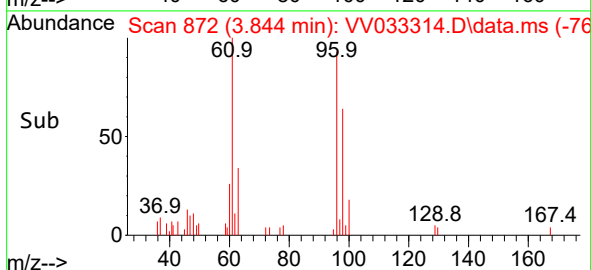
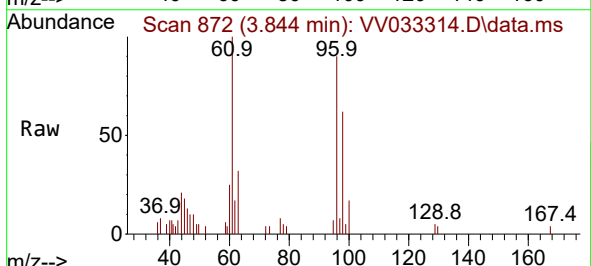
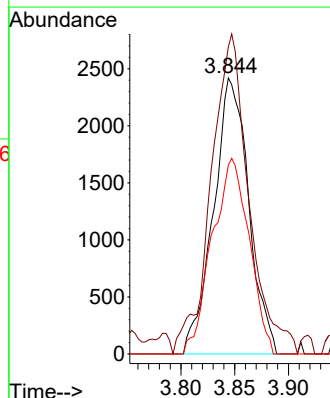
Tgt Ion: 96 Resp: 5506

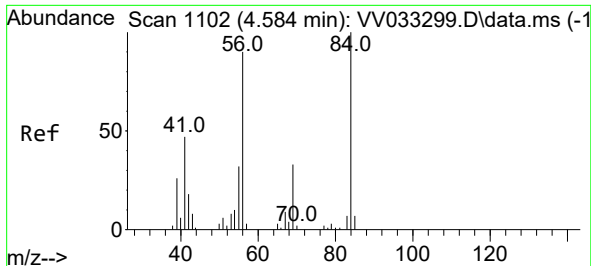
Ion Ratio Lower Upper

96 100

61 111.2 69.9 129.9

98 68.5 42.4 78.8





#30

Cyclohexane

Concen: 0.211 ug/L

RT: 4.587 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA\_V

ClientSampleId :

E0Y86

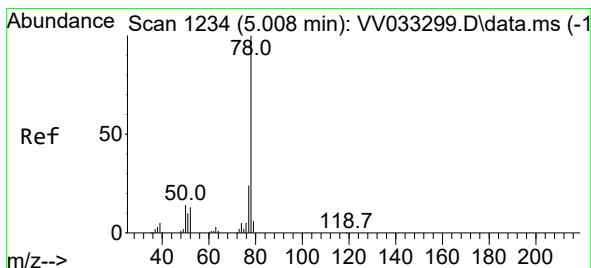
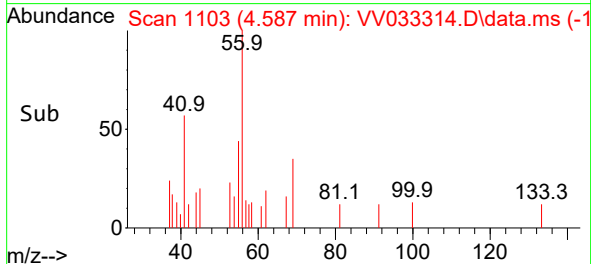
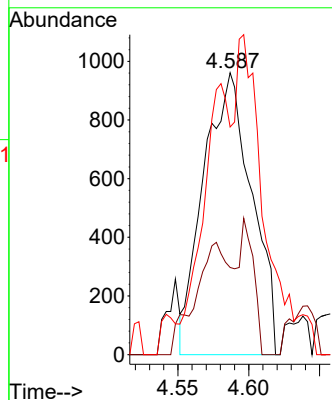
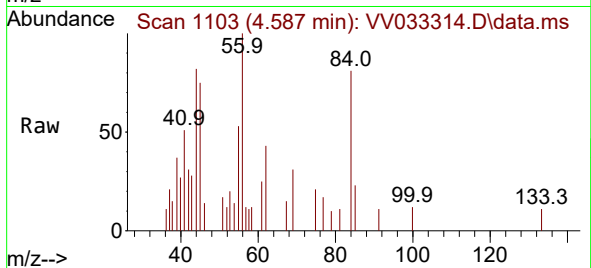
Tgt Ion: 56 Resp: 227

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 14.3  | 28.8  | 43.2  |
| 84  | 52.0  | 86.2  | 129.4 |

Manual Integrations

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#33

Benzene

Concen: 0.460 ug/L

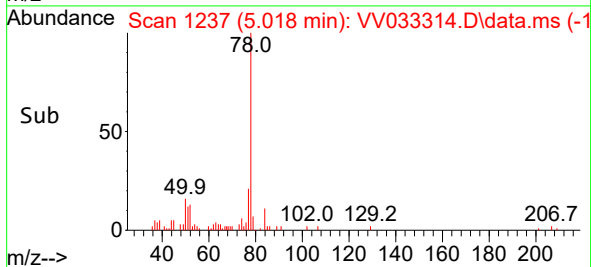
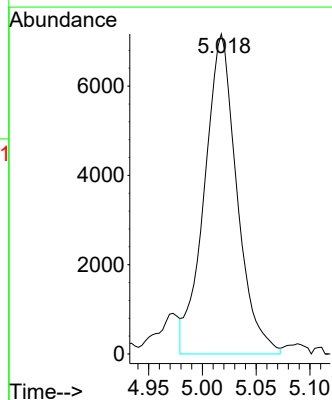
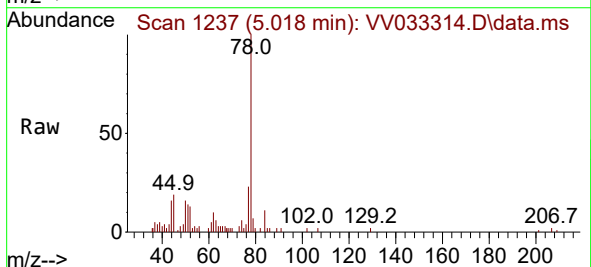
RT: 5.018 min Scan# 1237

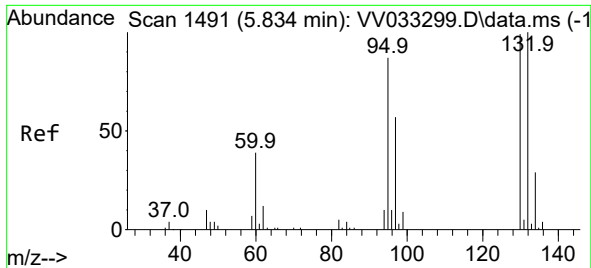
Delta R.T. 0.010 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

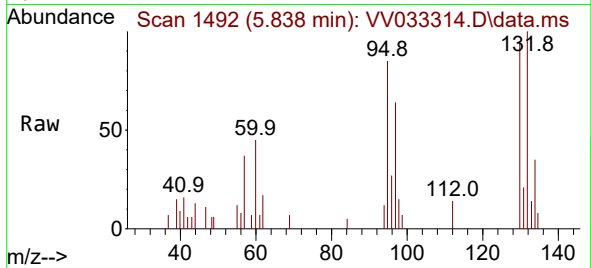
Tgt Ion: 78 Resp: 15016





#34  
Trichloroethene  
Concen: 0.385 ug/L  
RT: 5.838 min Scan# 1491  
Delta R.T. 0.003 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

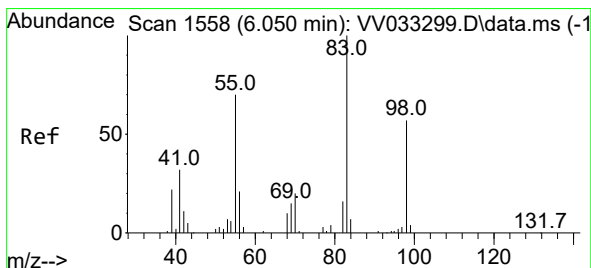
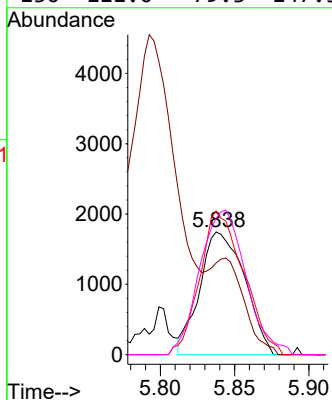
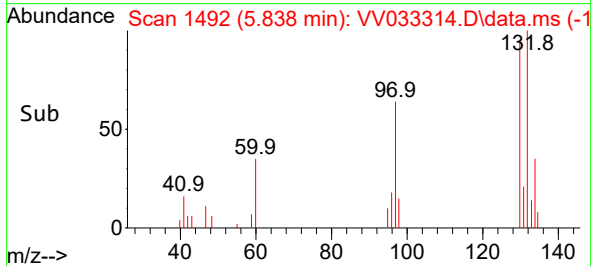
Instrument :  
MSVOA\_V  
ClientSampleId :  
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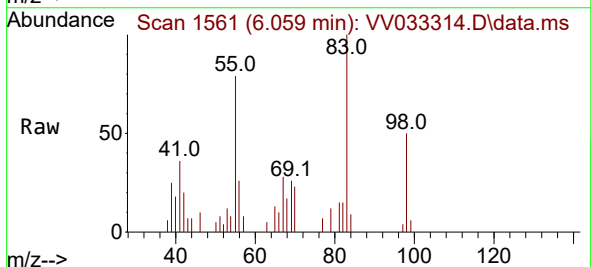
Tgt Ion: 95 Resp: 3669  
Ion Ratio Lower Upper  
95 100  
97 74.7 46.5 86.5  
132 117.1 75.1 139.5  
130 111.0 79.3 147.3

Manual Integrations  
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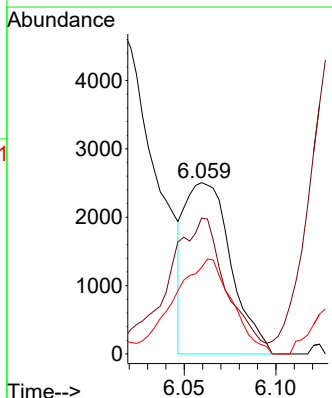
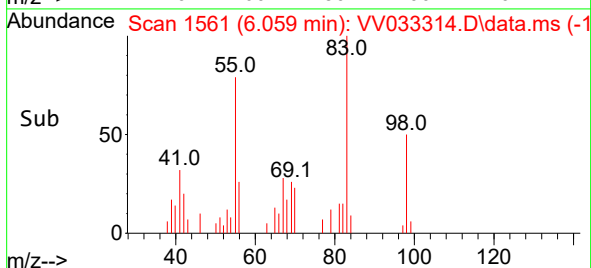
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

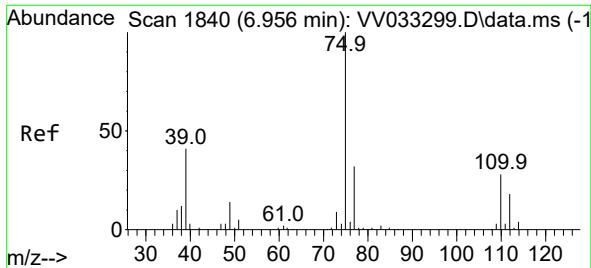


#35  
Methylcyclohexane  
Concen: 0.311 ug/L  
RT: 6.059 min Scan# 1561  
Delta R.T. 0.010 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43



Tgt Ion: 83 Resp: 4381  
Ion Ratio Lower Upper  
83 100  
55 105.5 50.7 76.1#  
98 69.7 42.4 63.6#





#39

cis-1,3-Dichloropropene

Concen: 0.106 ug/L

RT: 6.953 min Scan# 1120

Delta R.T. -0.003 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA\_V

ClientSampleId :

E0Y86

Tgt Ion: 75 Resp: 1120

Ion Ratio Lower Upper

75 100

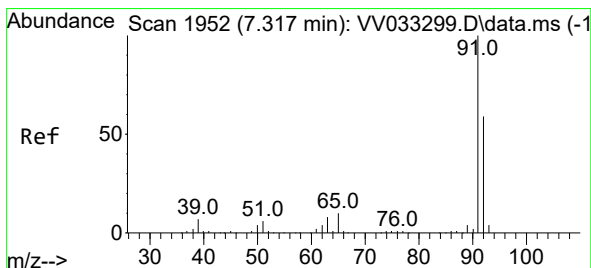
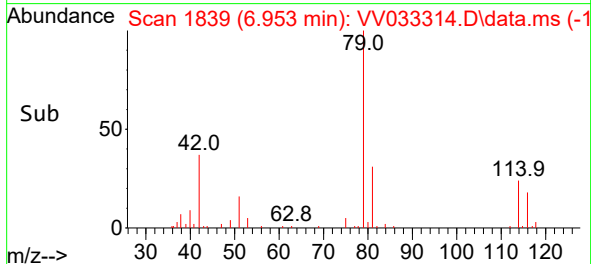
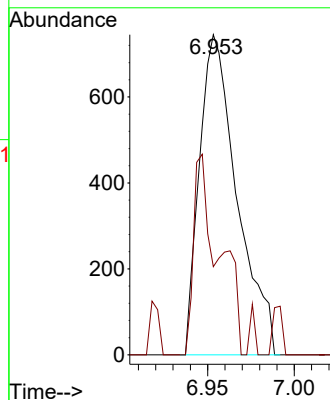
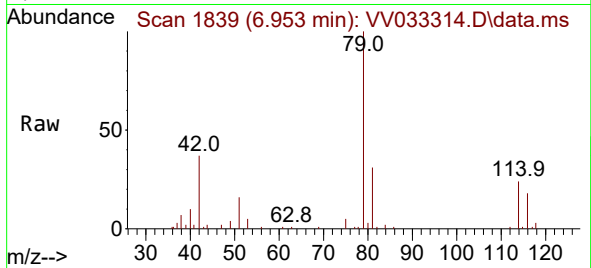
77 27.5 22.1 41.1

Manual Integrations

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#42

Toluene

Concen: 0.893 ug/L

RT: 7.352 min Scan# 1963

Delta R.T. 0.035 min

Lab File: VV033314.D

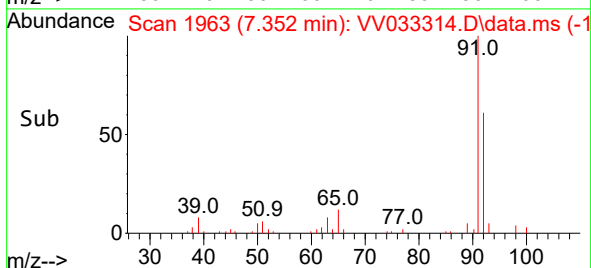
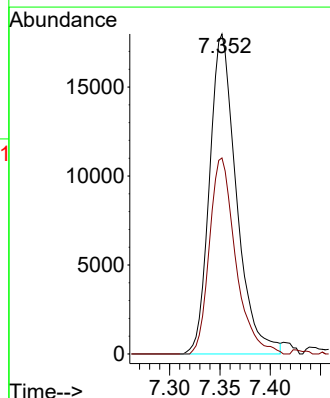
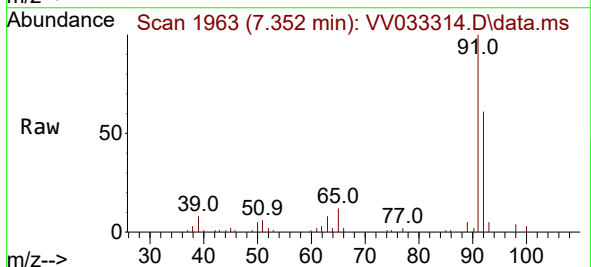
Acq: 14 Dec 2023 06:43

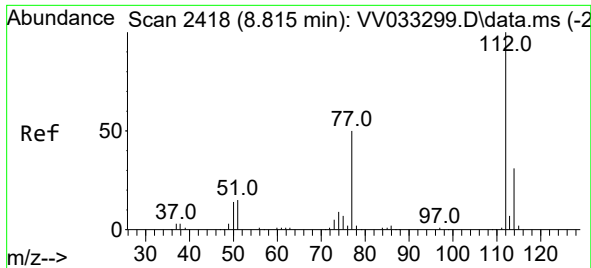
Tgt Ion: 91 Resp: 33421

Ion Ratio Lower Upper

91 100

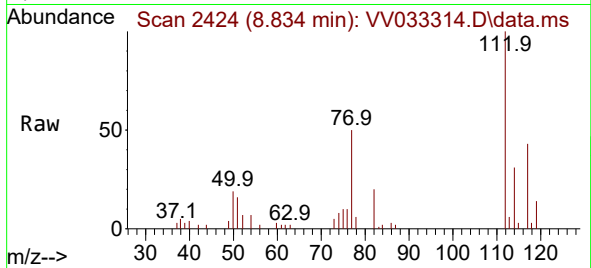
92 61.3 40.2 74.6





#51  
Chlorobenzene  
Concen: 0.553 ug/L  
RT: 8.834 min Scan# 2418  
Delta R.T. 0.019 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

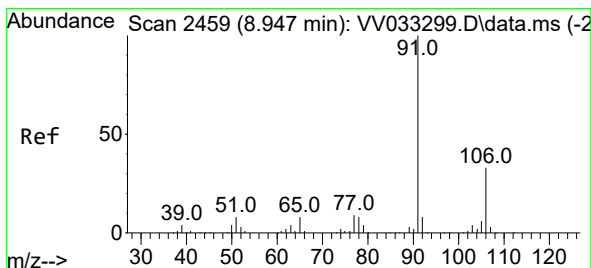
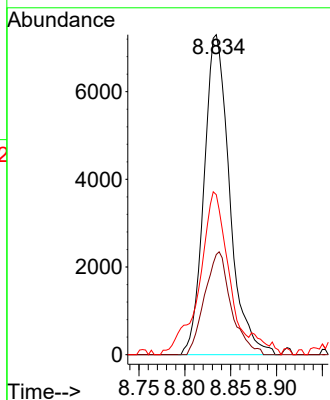
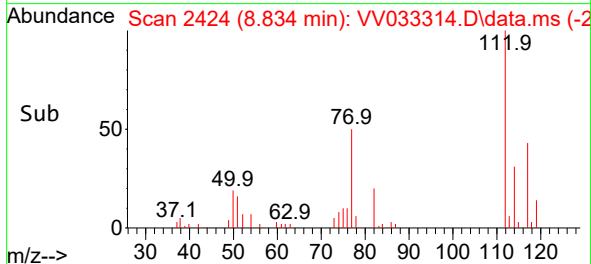
Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86



Tgt Ion:112 Resp: 1417  
Ion Ratio Lower Upper  
112 100  
114 29.5 22.8 42.4  
77 47.1 41.3 61.9

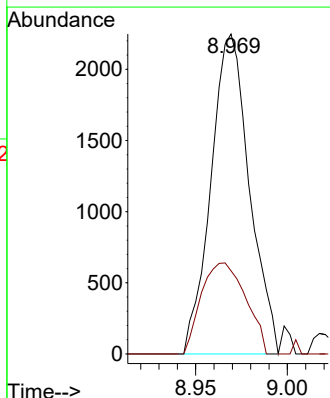
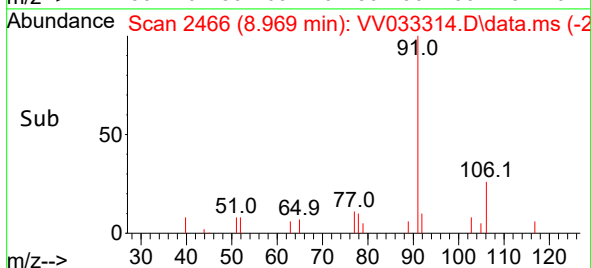
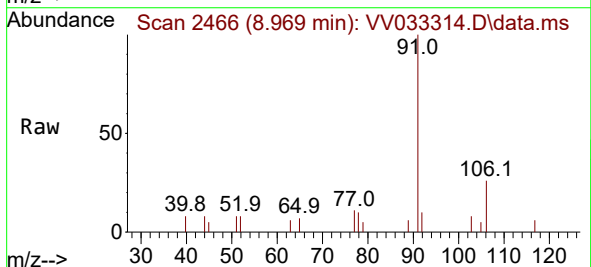
Manual Integrations  
APPROVED

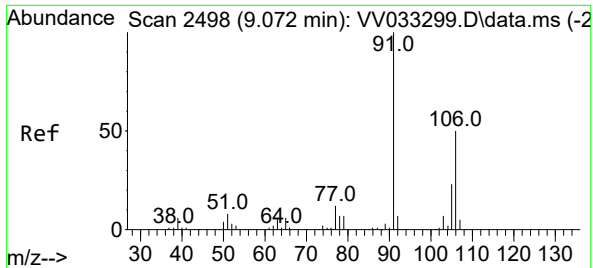
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#52  
Ethylbenzene  
Concen: 0.078 ug/L  
RT: 8.969 min Scan# 2466  
Delta R.T. 0.023 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

Tgt Ion: 91 Resp: 3281  
Ion Ratio Lower Upper  
91 100  
106 26.0 22.7 42.3





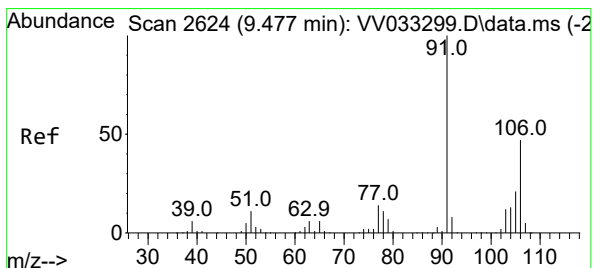
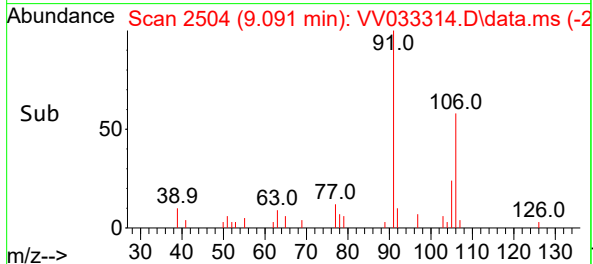
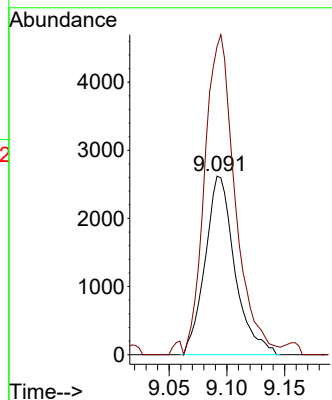
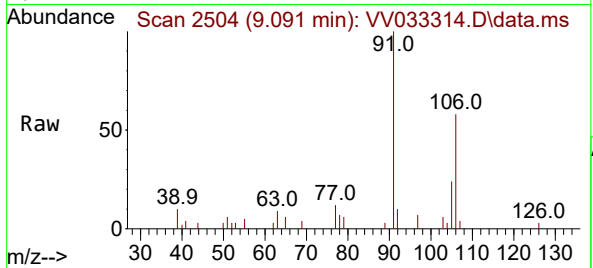
#53  
m,p-Xylene  
Concen: 0.271 ug/L  
RT: 9.091 min Scan# 21  
Delta R.T. 0.019 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86

Tgt Ion:106 Resp: 4684  
Ion Ratio Lower Upper  
106 100  
91 172.5 136.8 254.0

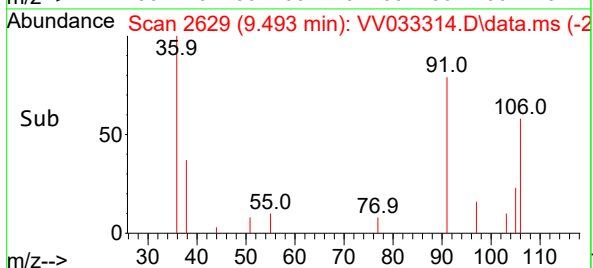
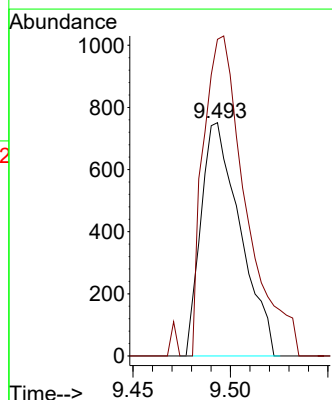
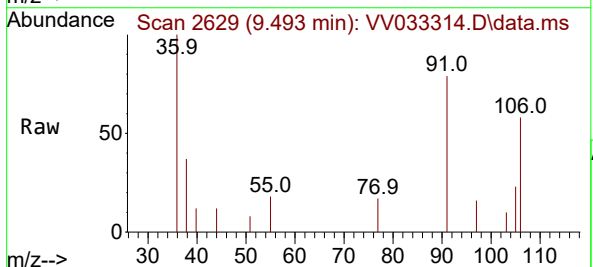
Manual Integrations  
APPROVED

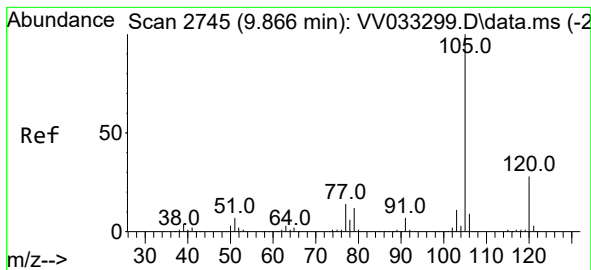
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#54  
o-Xylene  
Concen: 0.064 ug/L  
RT: 9.493 min Scan# 2629  
Delta R.T. 0.016 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

Tgt Ion:106 Resp: 1048  
Ion Ratio Lower Upper  
106 100  
91 135.7 149.9 278.5#





#60

Isopropylbenzene

Concen: 1.641 ug/L

RT: 9.876 min Scan# 2176

Delta R.T. 0.010 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

Instrument :

MSVOA\_V

ClientSampleId :

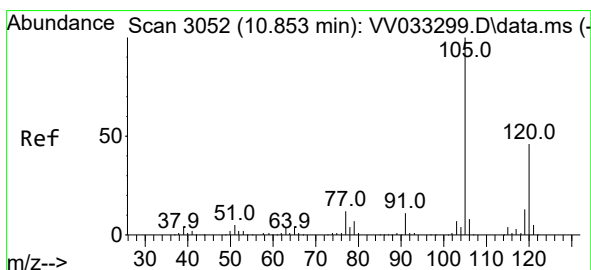
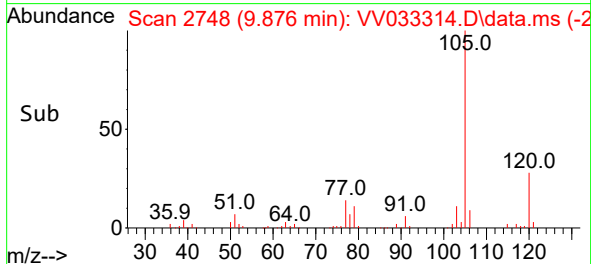
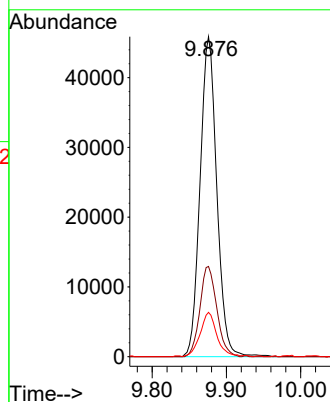
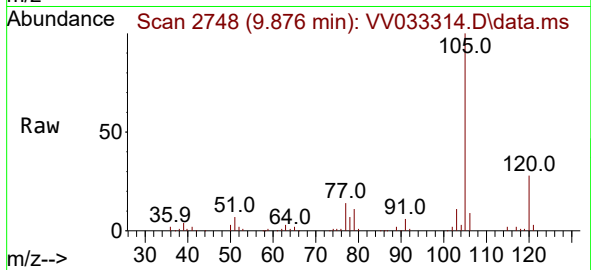
E0Y86

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 7176 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 28.4  | 22.2  | 33.4 |
| 77        | 13.9  | 11.6  | 17.4 |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023



#63

1,2,4-Trimethylbenzene

Concen: 0.140 ug/L

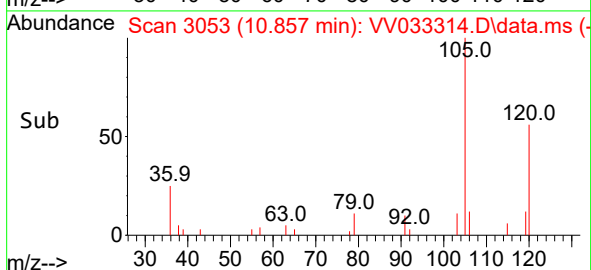
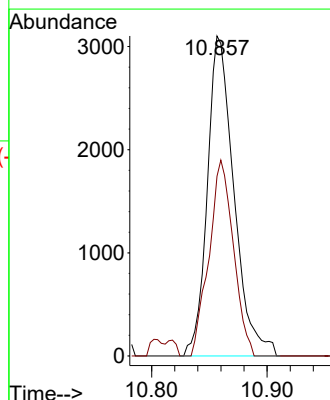
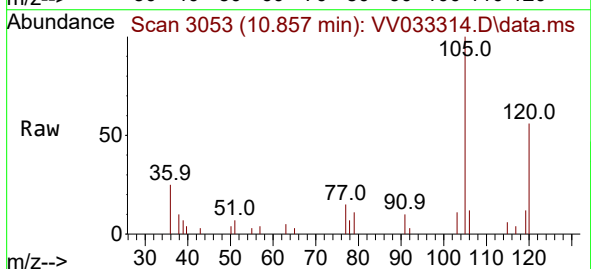
RT: 10.857 min Scan# 3053

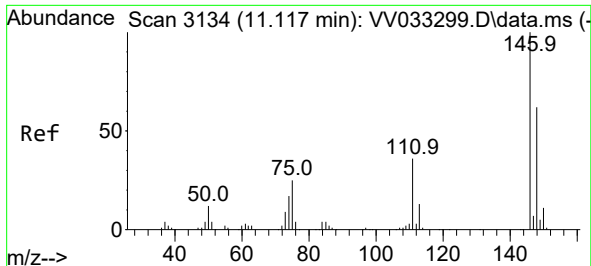
Delta R.T. 0.003 min

Lab File: VV033314.D

Acq: 14 Dec 2023 06:43

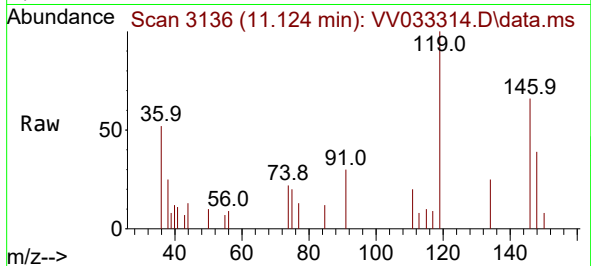
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 4966 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 56.1  | 38.1  | 57.1 |





#64  
1,3-Dichlorobenzene  
Concen: 0.066 ug/L  
RT: 11.124 min Scan# 3134  
Delta R.T. 0.006 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

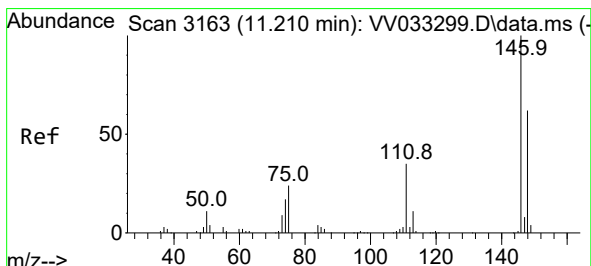
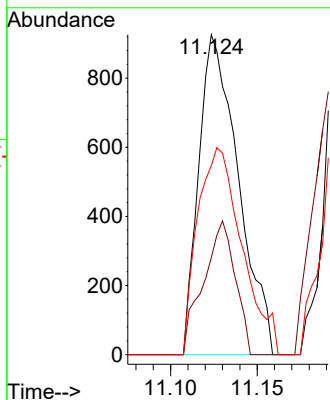
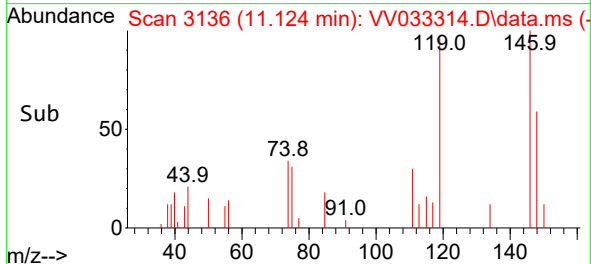
Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86



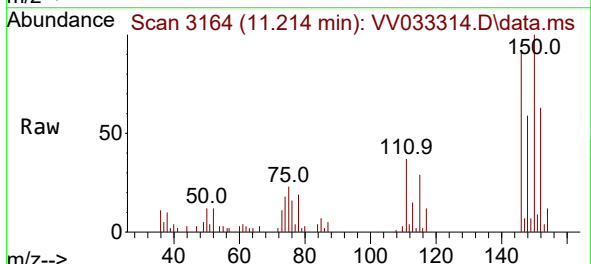
Tgt Ion:146 Resp: 146  
Ion Ratio Lower Upper  
146 100  
111 30.3 26.0 48.2  
148 59.1 44.5 82.7

Manual Integrations  
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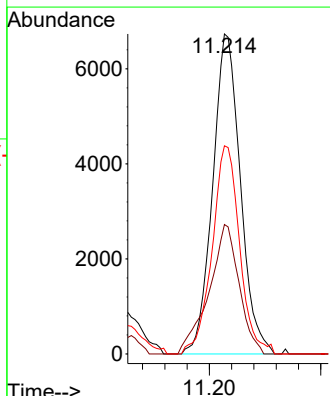
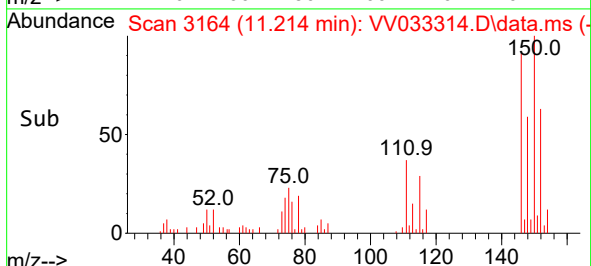
Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

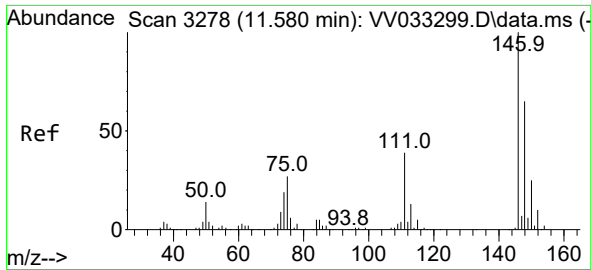


#65  
1,4-Dichlorobenzene  
Concen: 0.525 ug/L  
RT: 11.214 min Scan# 3164  
Delta R.T. 0.003 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43



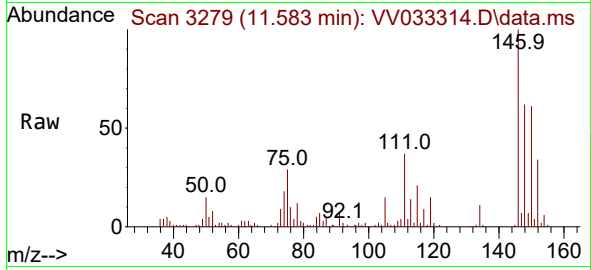
Tgt Ion:146 Resp: 11626  
Ion Ratio Lower Upper  
146 100  
111 40.5 25.6 47.4  
148 65.1 44.7 82.9





#67  
1,2-Dichlorobenzene  
Concen: 1.978 ug/L  
RT: 11.583 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VV033314.D  
Acq: 14 Dec 2023 06:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
E0Y86



Tgt Ion:146 Resp: 3783  
Ion Ratio Lower Upper  
146 100  
111 36.6 31.0 46.4  
148 62.2 52.6 79.0

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023  
Supervised By :Mahesh Dadoda 12/18/2023

