

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071423\  
 Data File : VX036543.D  
 Acq On : 13 Jul 2023 22:14  
 Operator : JC/MD  
 Sample : 03596-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 002-35TH-AVE(JULY)

Quant Time: Jul 14 04:39:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X071423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 14 04:32:22 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 07/14/2023  
 Supervised By :Semsettin Yesilyurt 07/14/2023

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Bromochloromethane       | 4.910          | 128  | 26850      | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763          | 114  | 137866     | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055         | 117  | 130494     | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds |                |      |            |         |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958          | 65   | 64826      | 29.090  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = | 96.967% |        |          |
| 60) 4-Bromofluorobenzene    | 11.079         | 95   | 61910      | 29.248  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = | 97.500% |        |          |
| 63) Toluene-d8              | 8.647          | 98   | 174629     | 29.081  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = | 96.933% |        |          |
| Target Compounds            |                |      |            |         |        |          |
|                             |                |      |            |         | Qvalue |          |
| 12) Methyl Acetate          | 2.703          | 43   | 7807       | 2.114   | ug/l # | 82       |
| 15) Acetone                 | 2.386          | 58   | 262535     | 895.742 | ug/l   | 96       |
| 16) Carbon Disulfide        | 2.514          | 76   | 3813       | 1.000   | ug/l # | 94       |
| 18) Methylene Chloride      | 2.788          | 84   | 1418       | 0.749   | ug/l # | 92       |
| 25) Chloroform              | 5.092          | 83   | 1548m      | 0.452   | ug/l   |          |
| 30) 2-Butanone              | 4.568          | 43   | 82365      | 62.921  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone    | 8.573          | 43   | 14842      | 5.500   | ug/l   | 99       |
| 62) Toluene                 | 8.720          | 91   | 1823838    | 249.099 | ug/l   | 98       |
| 66) Ethyl Benzene           | 10.195         | 91   | 1979       | 0.249   | ug/l # | 85       |
| 67) m/p-Xylenes             | 10.299         | 106  | 1358       | 0.438   | ug/l   | 91       |
| 80) 1,2,4-Trimethylbenzene  | 11.756         | 105  | 7302       | 1.118   | ug/l   | 46       |
| 82) p-Isopropyltoluene      | 12.012         | 119  | 8347       | 1.274   | ug/l   | 96       |
| -----                       |                |      |            |         |        |          |

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

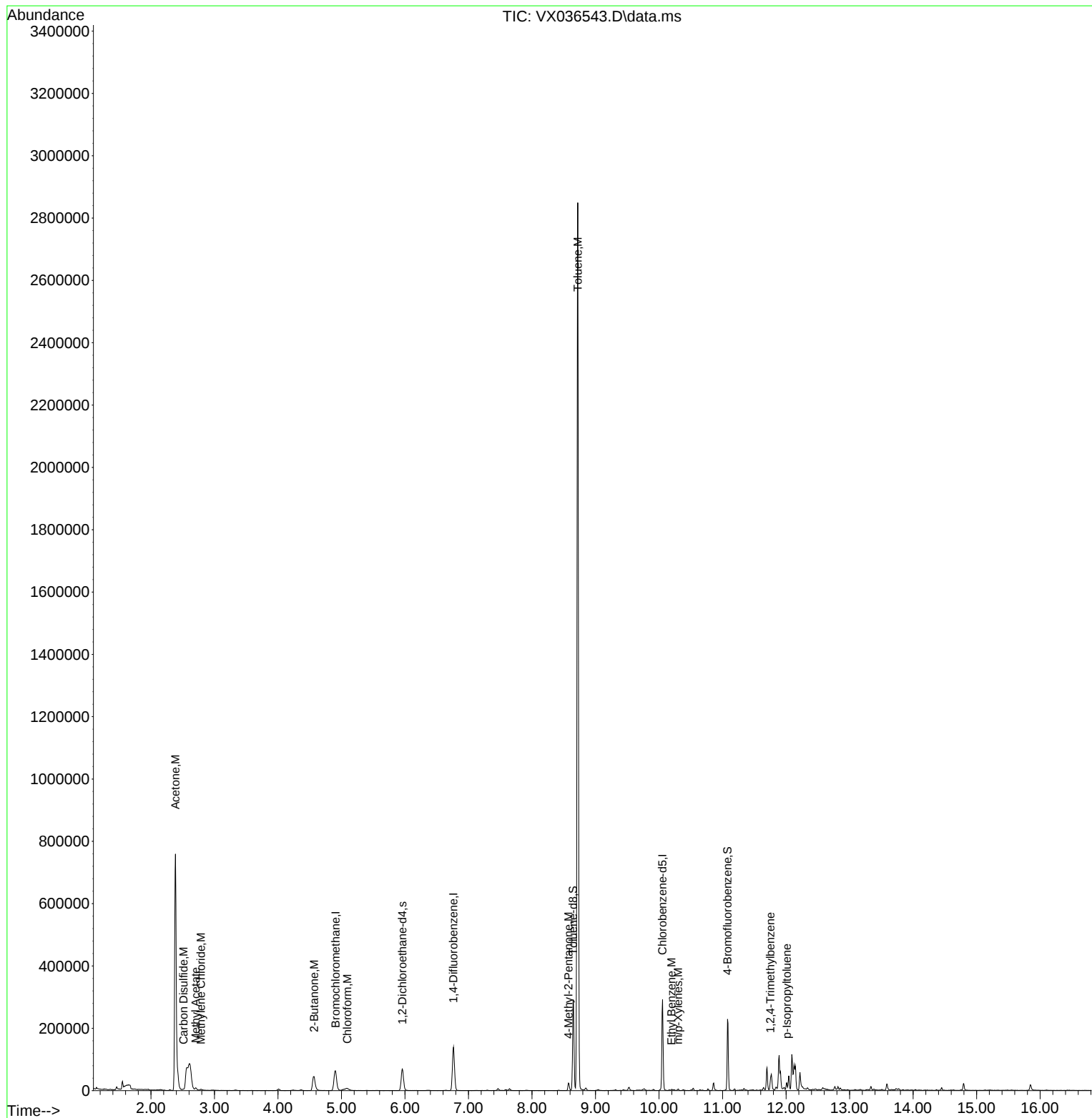
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071423\  
Data File : VX036543.D  
Acq On : 13 Jul 2023 22:14  
Operator : JC/MD  
Sample : 03596-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 21 Sample Multiplier: 1

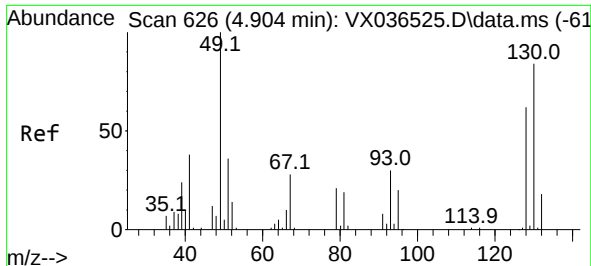
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY

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Supervised By :Semsettin Yesilyurt 07/14/2023

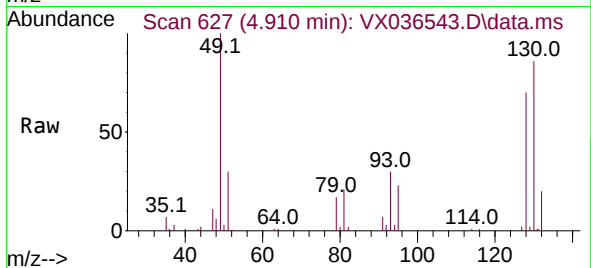
Quant Time: Jul 14 04:39:25 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X071423W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jul 14 04:32:22 2023  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.910 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

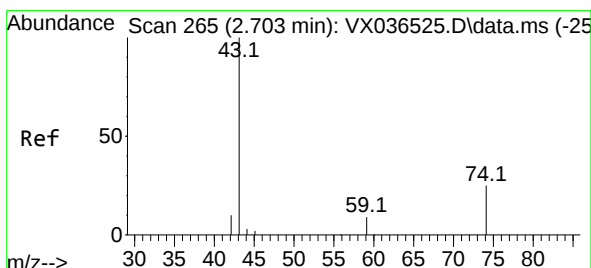
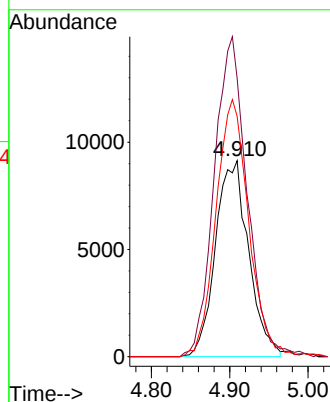
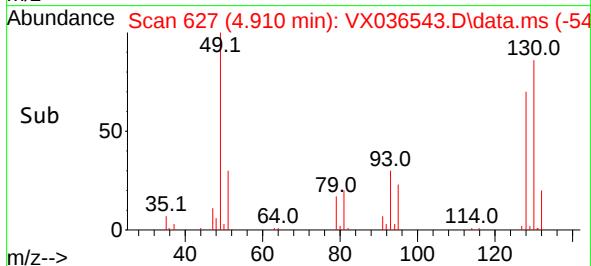
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY



Tgt Ion:128 Resp: 26850  
Ion Ratio Lower Upper  
128 100  
49 161.8 0.0 406.3  
130 129.6 0.0 328.0

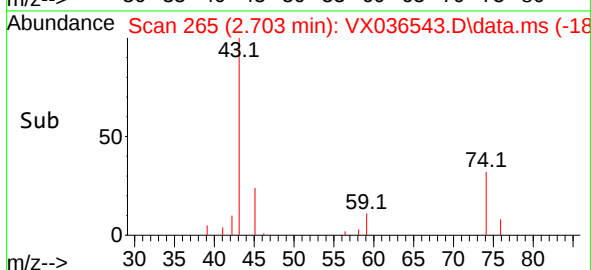
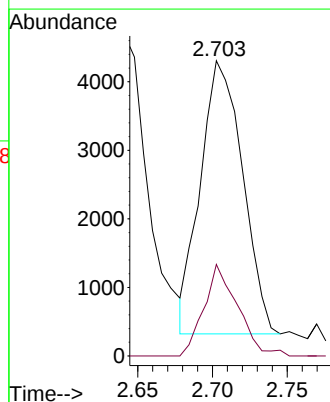
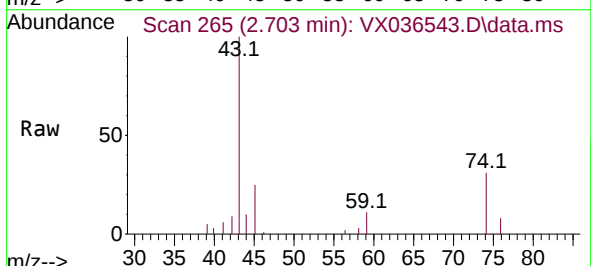
Manual Integrations  
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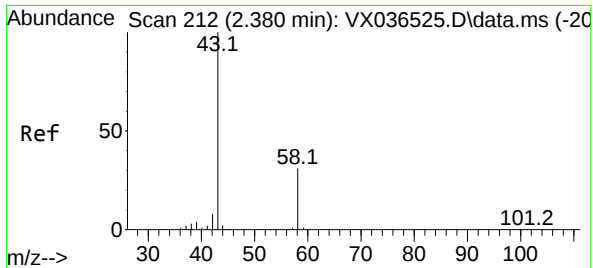
Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023



#12  
Methyl Acetate  
Concen: 2.114 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

Tgt Ion: 43 Resp: 7807  
Ion Ratio Lower Upper  
43 100  
74 34.7 20.3 30.5#





#15

Acetone

Concen: 895.742 ug/l

RT: 2.386 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(JULY

Tgt Ion: 58 Resp: 26253

Ion Ratio Lower Upper

58 100

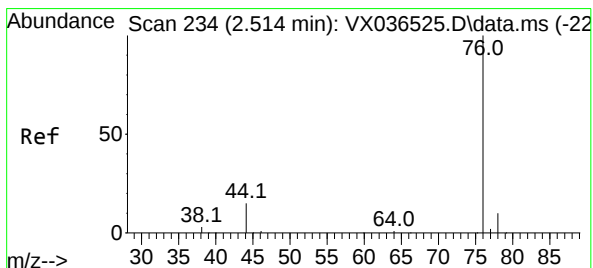
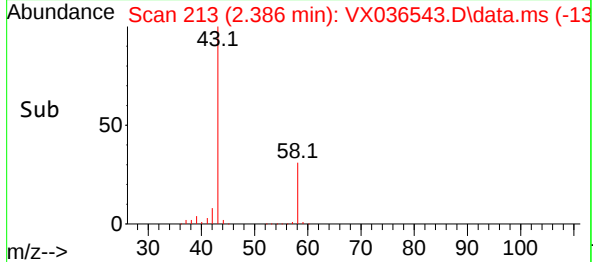
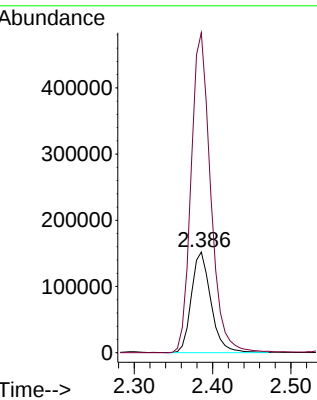
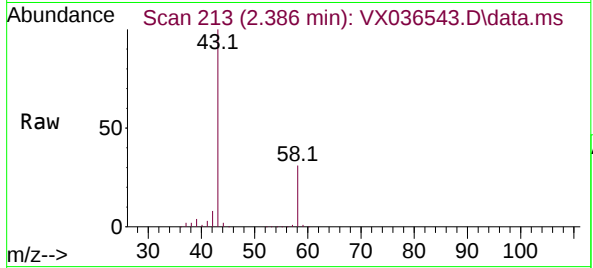
43 318.3 261.0 391.4

Manual Integrations

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Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#16

Carbon Disulfide

Concen: 1.000 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX036543.D

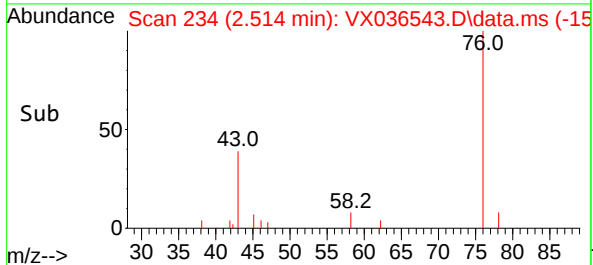
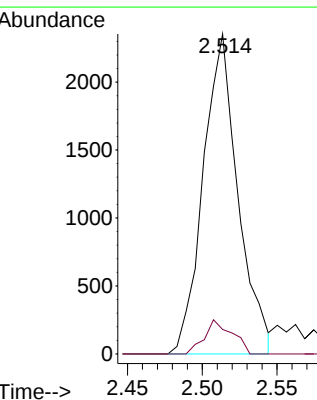
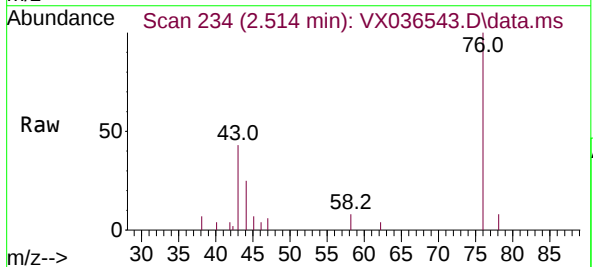
Acq: 13 Jul 2023 22:14

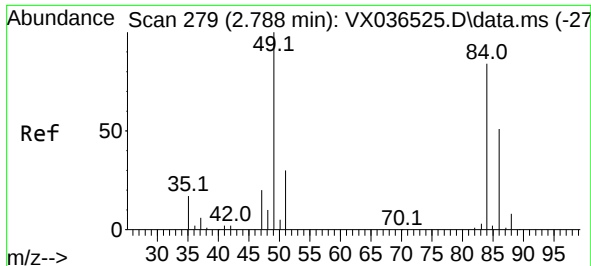
Tgt Ion: 76 Resp: 3813

Ion Ratio Lower Upper

76 100

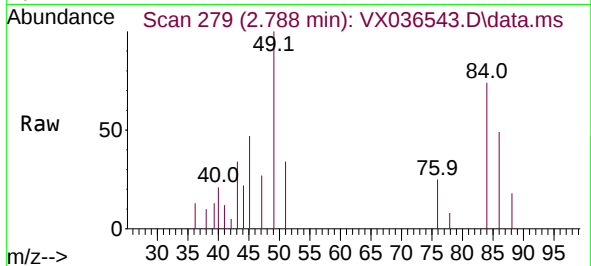
78 7.6 8.0 12.0#





#18  
Methylene Chloride  
Concen: 0.749 ug/l  
RT: 2.788 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

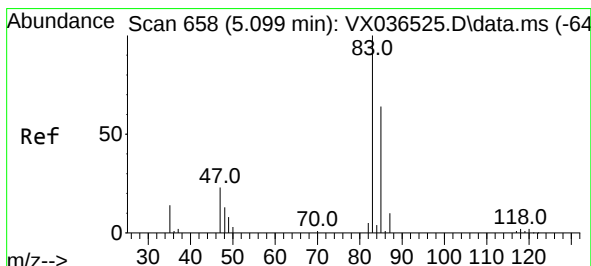
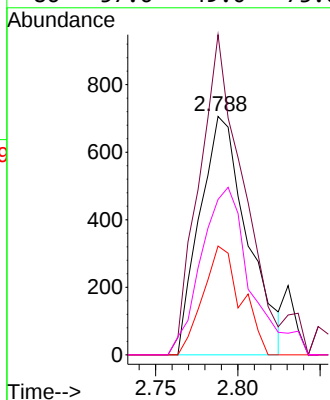
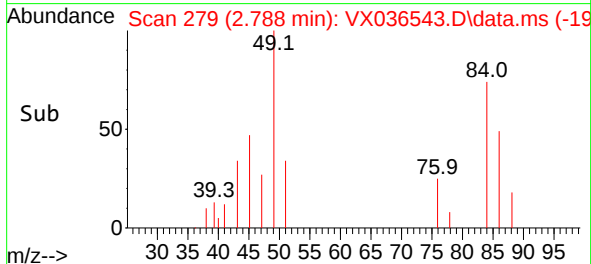
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY)



|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 1418  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 127.1    | 95.4 143.0  |
| 51 45.6     | 28.3 42.5   |
| 86 57.6     | 49.0 73.6   |

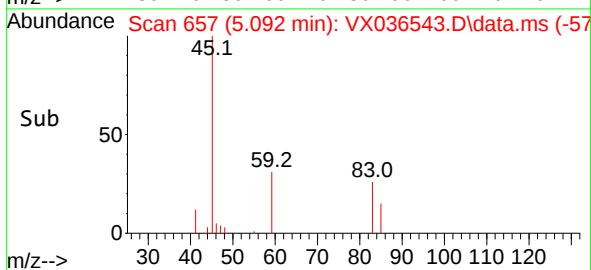
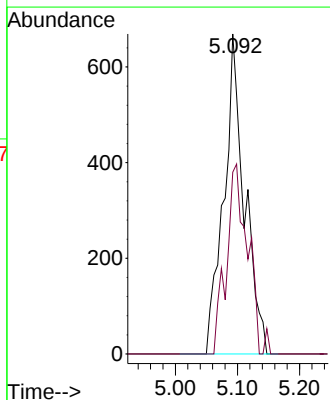
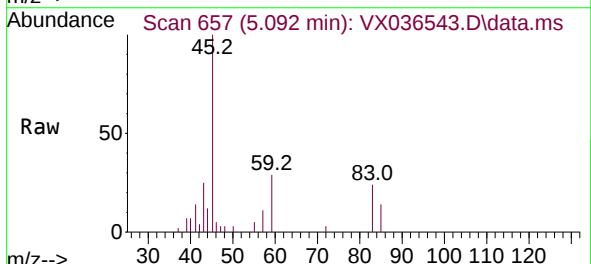
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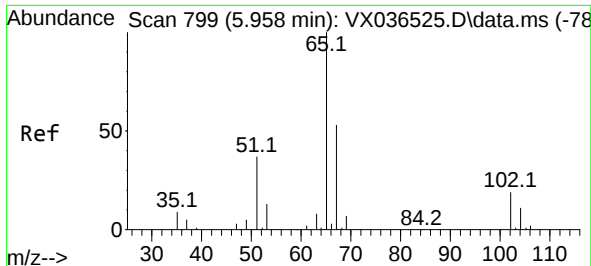
Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023



#25  
Chloroform  
Concen: 0.452 ug/l m  
RT: 5.092 min Scan# 657  
Delta R.T. -0.006 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 1548  |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 56.8     | 51.5 77.3   |





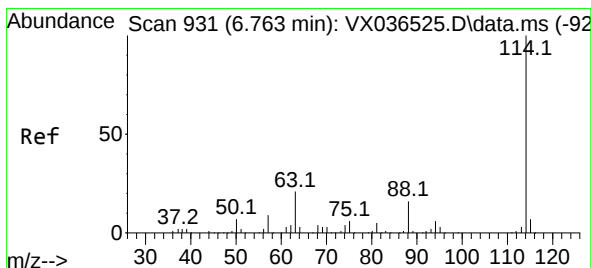
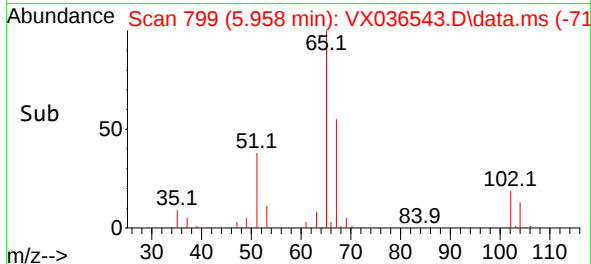
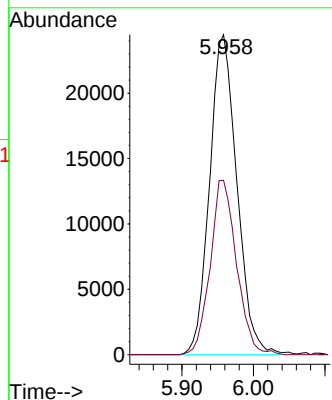
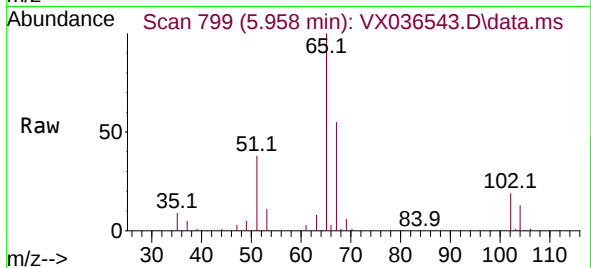
#27  
1,2-Dichloroethane-d4  
Concen: 29.090 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY)

Tgt Ion: 65 Resp: 64820  
Ion Ratio Lower Upper  
65 100  
67 52.4 42.1 63.1

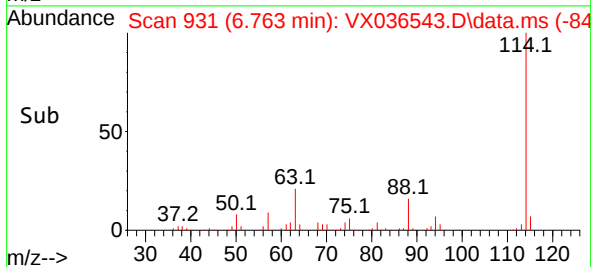
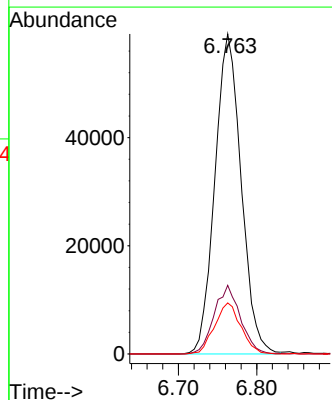
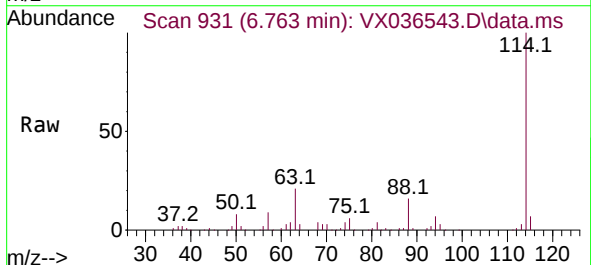
Manual Integrations  
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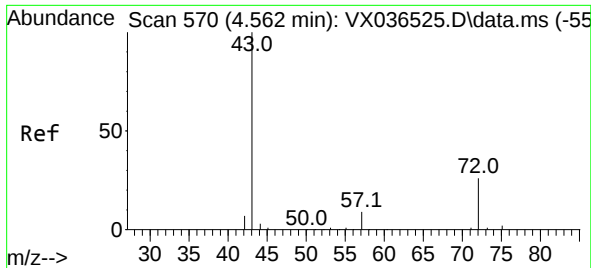
Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

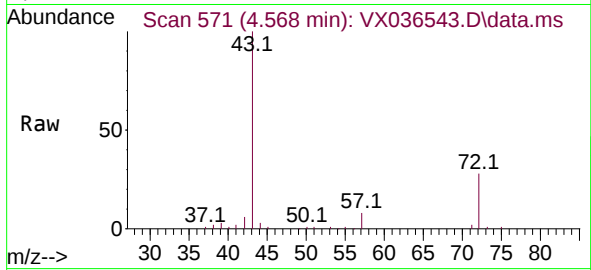
Tgt Ion:114 Resp: 137866  
Ion Ratio Lower Upper  
114 100  
63 21.5 16.6 24.8  
88 15.9 12.9 19.3





#30  
2-Butanone  
Concen: 62.921 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

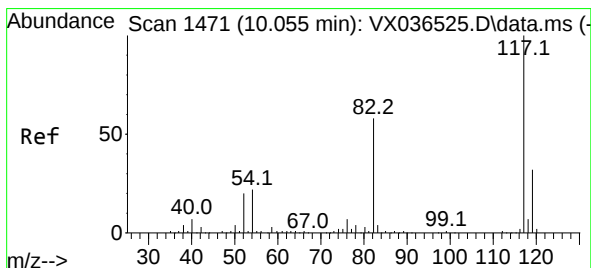
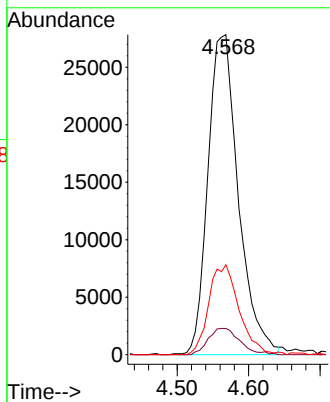
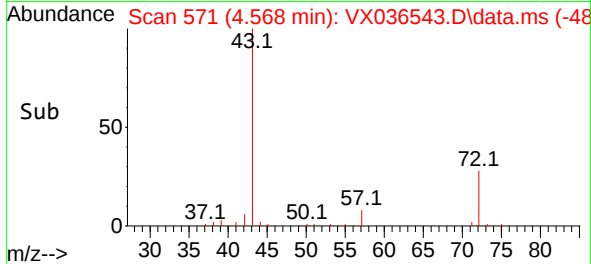
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY



Tgt Ion: 43 Resp: 8236  
Ion Ratio Lower Upper  
43 100  
57 8.3 6.4 9.6  
72 27.8 21.6 32.4

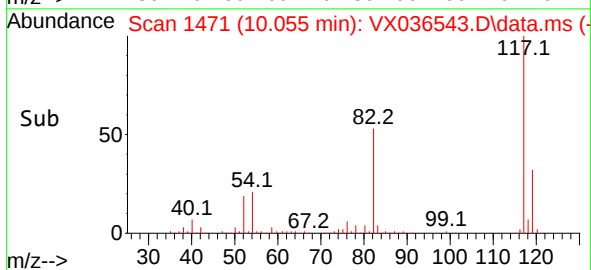
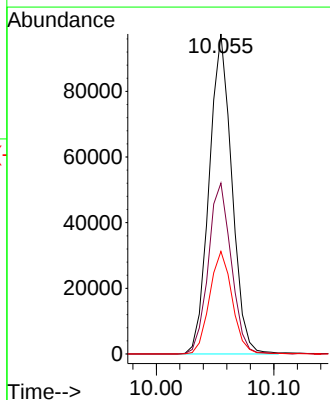
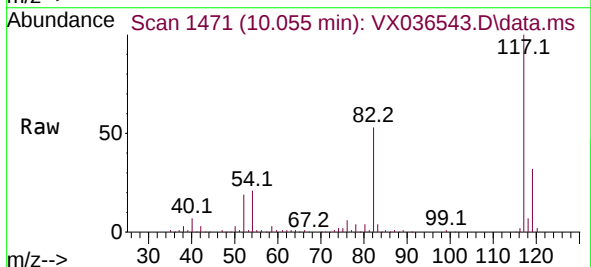
Manual Integrations  
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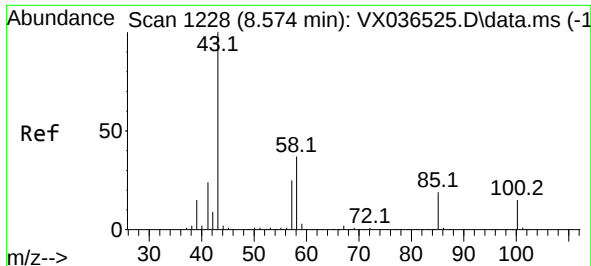
Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

Tgt Ion:117 Resp: 130494  
Ion Ratio Lower Upper  
117 100  
82 54.2 44.7 67.1  
119 32.3 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 5.500 ug/l

RT: 8.573 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(JULY

Tgt Ion: 43 Resp: 1484

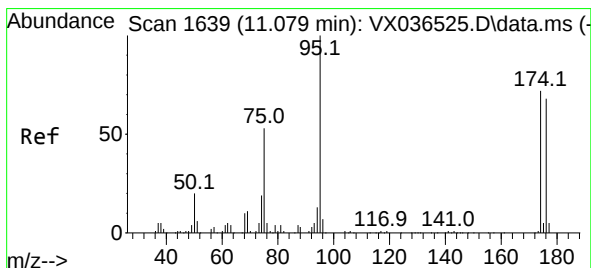
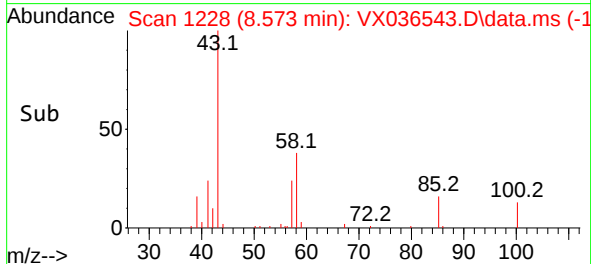
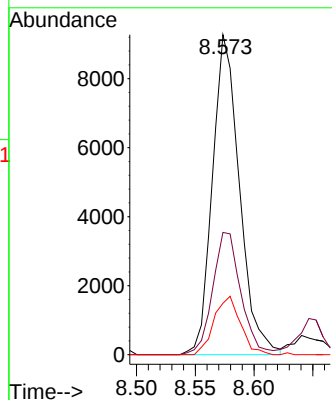
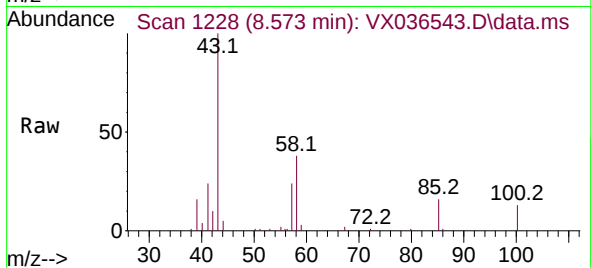
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 39.8  | 30.9  | 46.3  |
| 85  | 17.8  | 14.4  | 21.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#60

4-Bromofluorobenzene

Concen: 29.248 ug/l

RT: 11.079 min Scan# 1639

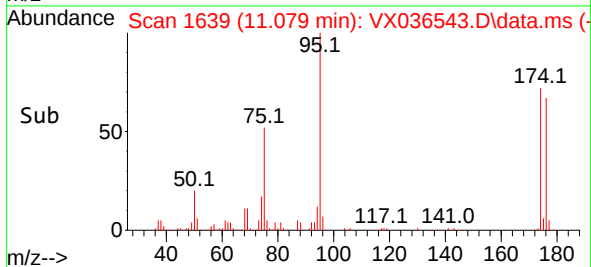
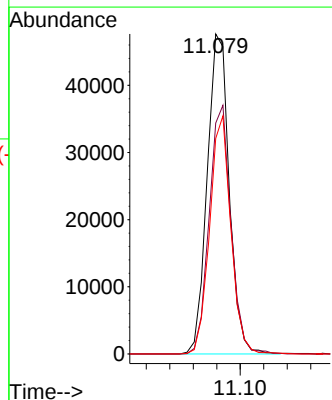
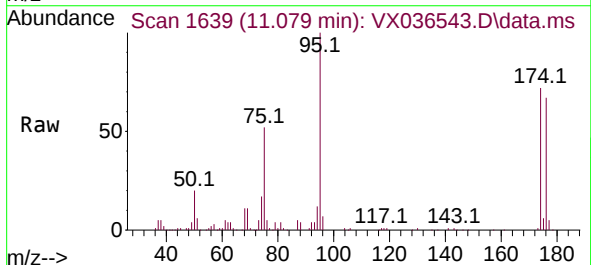
Delta R.T. -0.000 min

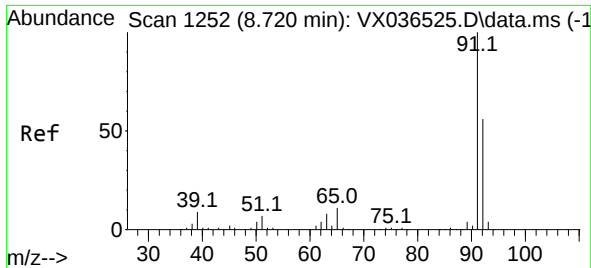
Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Tgt Ion: 95 Resp: 61910

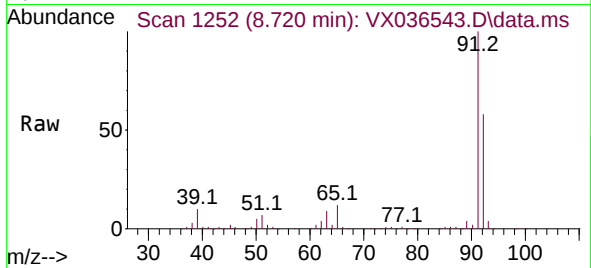
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 76.4  | 60.5  | 90.7  |
| 176 | 70.7  | 58.2  | 87.4  |





#62  
Toluene  
Concen: 249.099 ug/l  
RT: 8.720 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

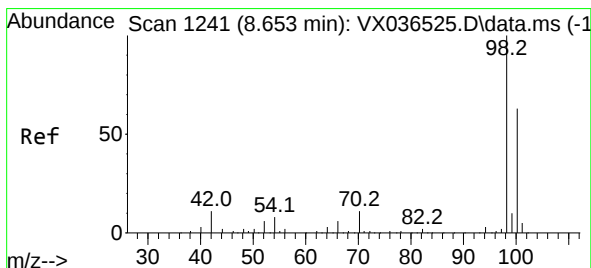
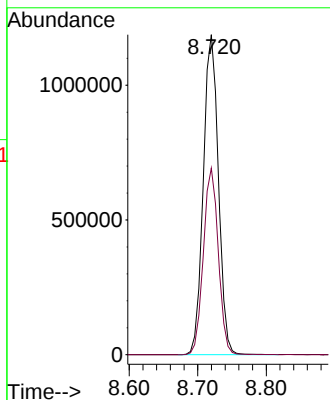
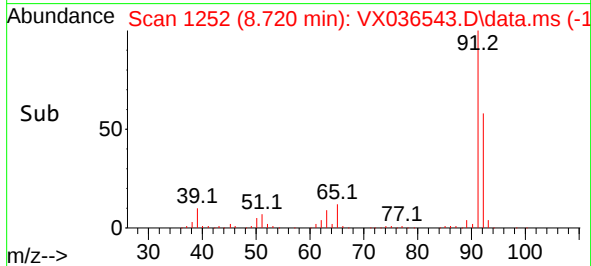
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY



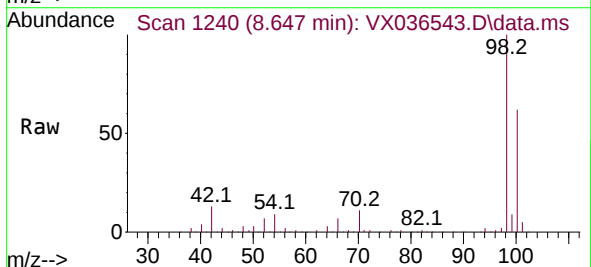
Tgt Ion: 91 Resp: 182383  
Ion Ratio Lower Upper  
91 100  
92 57.4 44.9 67.3

Manual Integrations  
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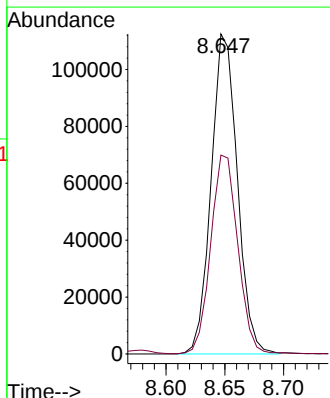
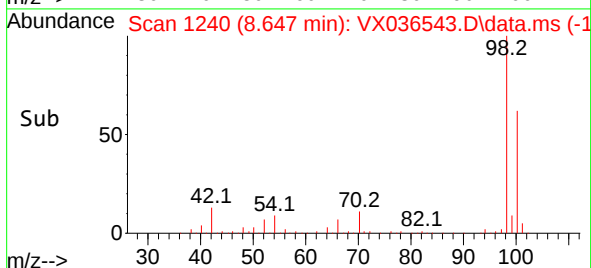
Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023

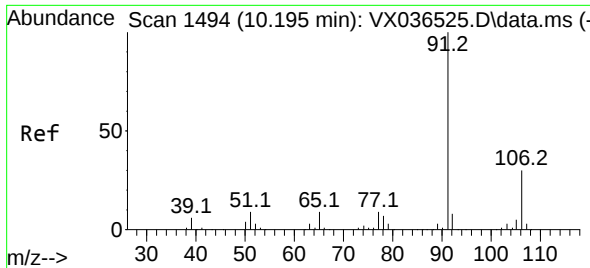


#63  
Toluene-d8  
Concen: 29.081 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14



Tgt Ion: 98 Resp: 174629  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.6 77.4





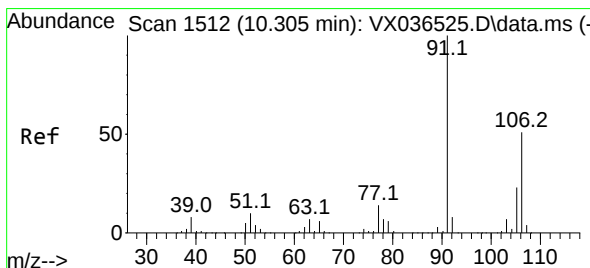
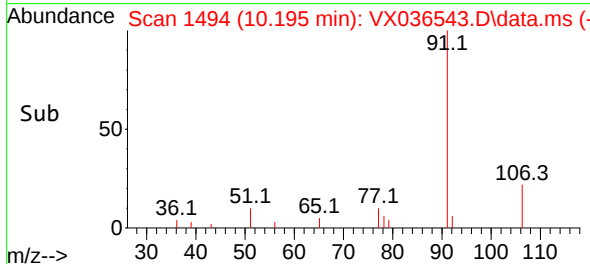
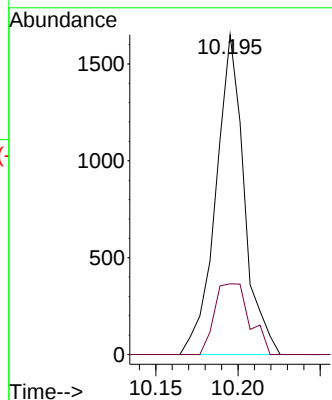
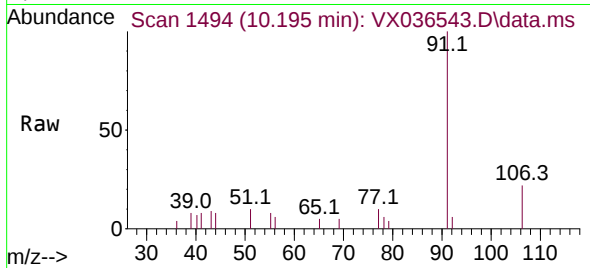
#66  
Ethyl Benzene  
Concen: 0.249 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. -0.000 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(JULY

Tgt Ion: 91 Resp: 1979  
Ion Ratio Lower Upper  
91 100  
106 22.1 24.2 36.4

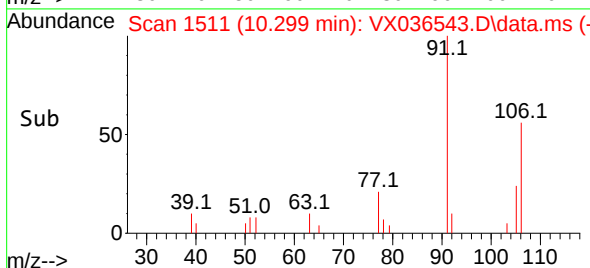
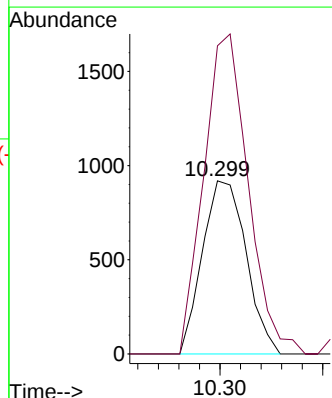
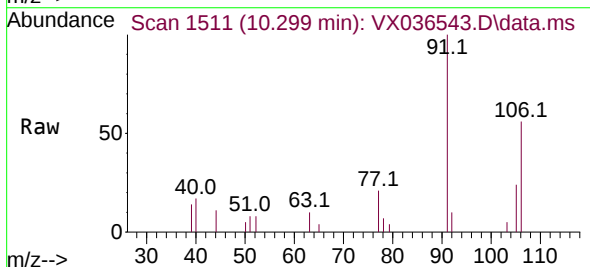
Manual Integrations  
APPROVED

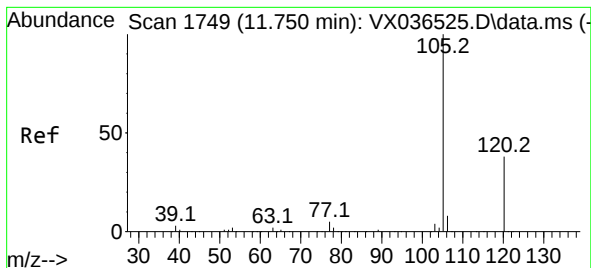
Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023



#67  
m/p-Xylenes  
Concen: 0.438 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.006 min  
Lab File: VX036543.D  
Acq: 13 Jul 2023 22:14

Tgt Ion:106 Resp: 1358  
Ion Ratio Lower Upper  
106 100  
91 187.6 160.5 240.7





#80

1,2,4-Trimethylbenzene

Concen: 1.118 ug/l

RT: 11.756 min Scan# 11750

Delta R.T. 0.006 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(JULY

Tgt Ion:105 Resp: 730

Ion Ratio Lower Upper

105 100

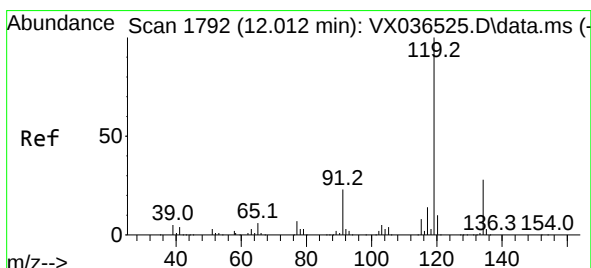
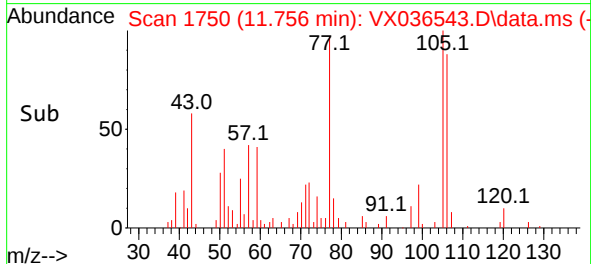
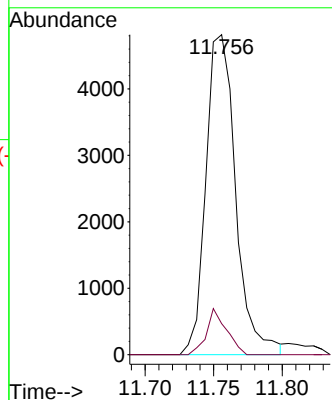
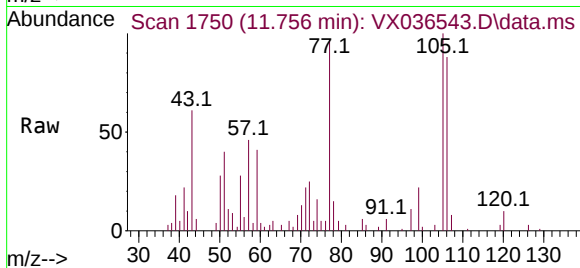
120 9.6 0.0 90.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#82

p-Isopropyltoluene

Concen: 1.274 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VX036543.D

Acq: 13 Jul 2023 22:14

Tgt Ion:119 Resp: 8347

Ion Ratio Lower Upper

119 100

134 24.8 0.0 53.2

91 26.9 0.0 49.4

