

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112923\  
 Data File : VX039055.D  
 Acq On : 29 Nov 2023 13:49  
 Operator : JC/MD  
 Sample : 05569-01 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF-WW

Quant Time: Nov 30 01:38:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/30/2023  
 Supervised By : Mahesh Dadoda 11/30/2023

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.891  | 128   | 10399m   | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.757  | 114   | 84913    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.049 | 117   | 102600   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.946  | 65    | 43720    | 30.731   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 102.433% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 65280    | 29.130   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 97.100%  |
| 63) Toluene-d8              | 8.647  | 98    | 123720   | 30.500   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 101.667% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 12) Methyl Acetate          | 2.709  | 43    | 11518    | 2.611    | ug/l # | 82       |
| 15) Acetone                 | 2.374  | 58    | 751123   | 1915.098 | ug/l   | 96       |
| 18) Methylene Chloride      | 2.782  | 84    | 634m     | 0.378    | ug/l   |          |
| 20) Diisopropyl ether       | 3.751  | 45    | 26761    | 5.008    | ug/l # | 72       |
| 23) tert-Butyl Alcohol      | 2.953  | 59    | 5478     | 9.171    | ug/l # | 100      |
| 25) Chloroform              | 5.087  | 83    | 10728    | 3.598    | ug/l   | 87       |
| 30) 2-Butanone              | 4.574  | 43    | 3732m    | 2.082    | ug/l   |          |
| 44) Isopropyl Acetate       | 6.330  | 43    | 63062    | 12.974   | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone    | 8.568  | 43    | 11216    | 3.605    | ug/l   | 95       |
| 59) 2-Hexanone              | 9.439  | 43    | 1373     | 0.538    | ug/l # | 91       |
| -----                       |        |       |          |          |        |          |

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

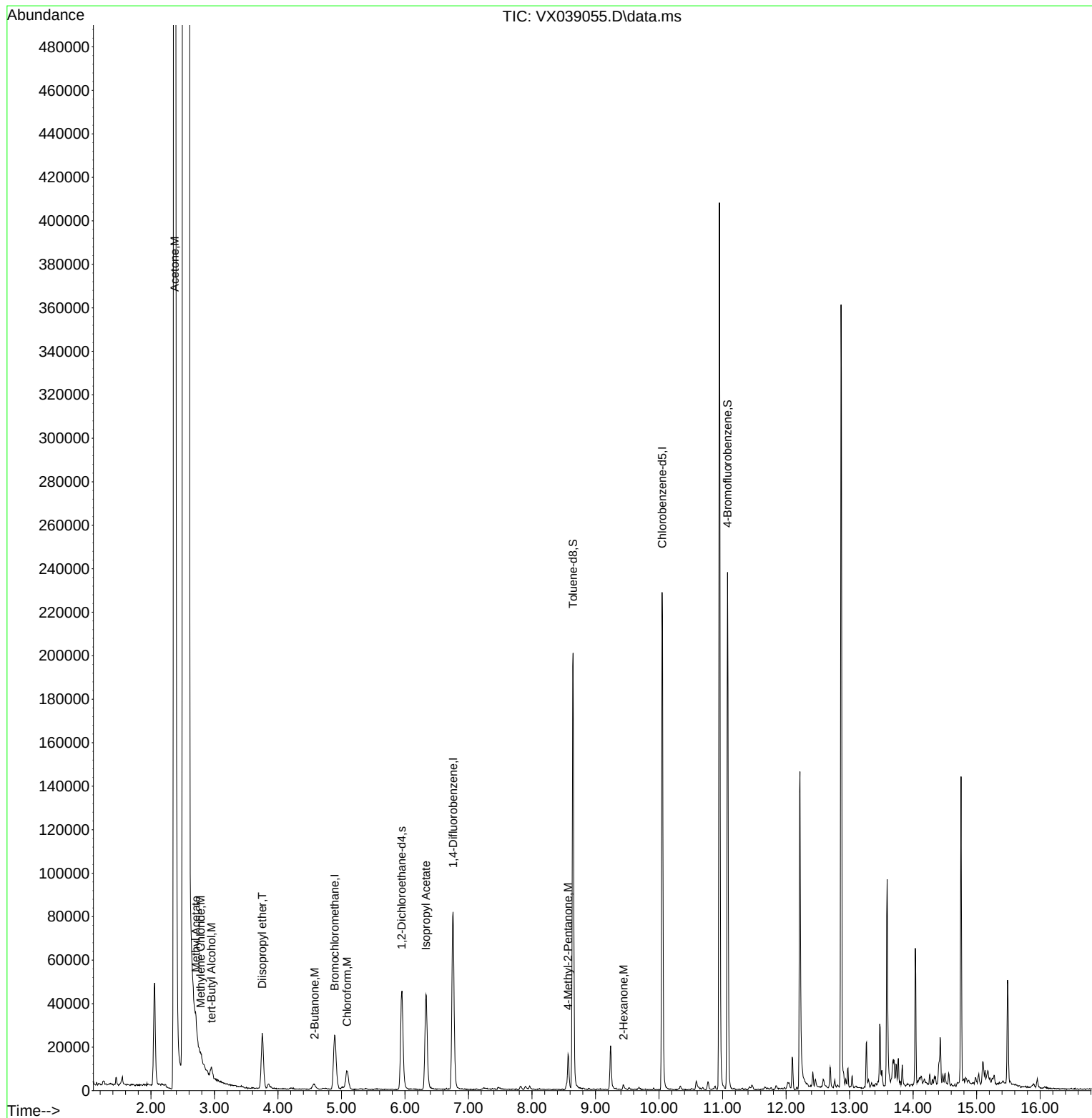
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112923\  
Data File : VX039055.D  
Acq On : 29 Nov 2023 13:49  
Operator : JC/MD  
Sample : 05569-01 5X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 6 Sample Multiplier: 1

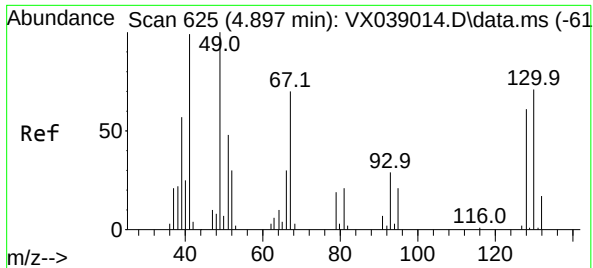
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Quant Time: Nov 30 01:38:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Nov 27 03:22:25 2023  
Response via : Initial Calibration

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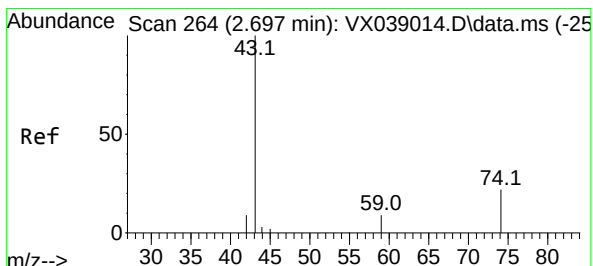
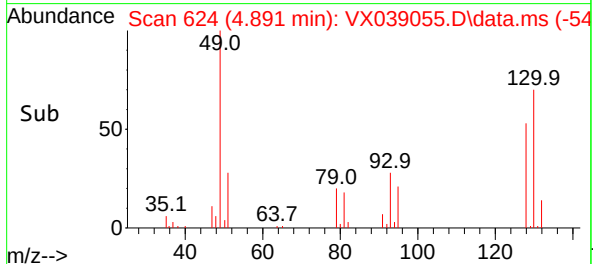
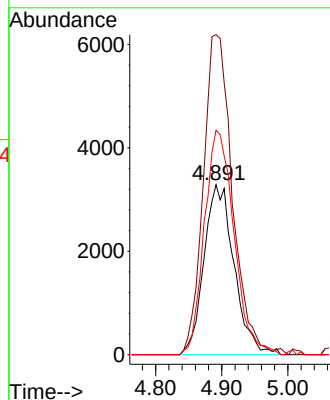
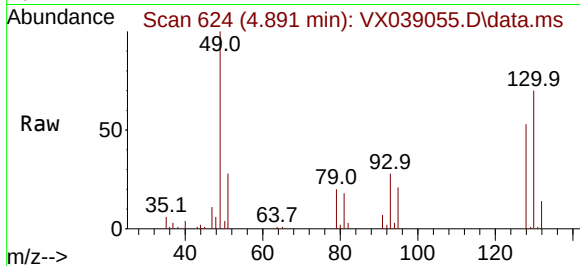
#1  
Bromochloromethane  
Concen: 30.000 ug/l m  
RT: 4.891 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Tgt Ion:128 Resp: 10399  
Ion Ratio Lower Upper  
128 100  
49 181.0 0.0 444.0  
130 130.3 0.0 297.8

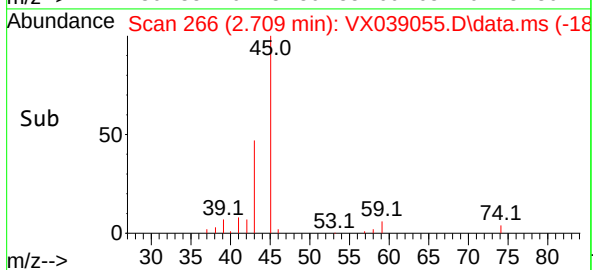
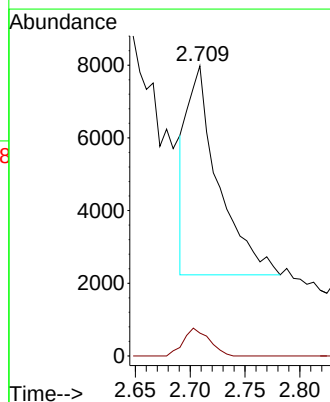
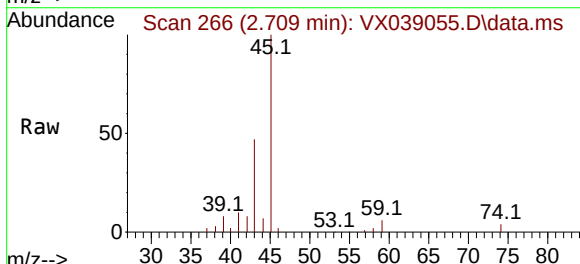
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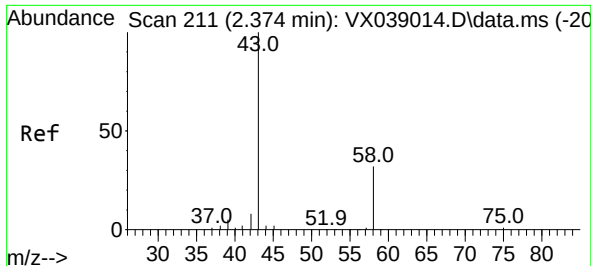
Reviewed By :John Carlone 11/30/2023  
Supervised By :Mahesh Dadoda 11/30/2023



#12  
Methyl Acetate  
Concen: 2.611 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.012 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Tgt Ion: 43 Resp: 11518  
Ion Ratio Lower Upper  
43 100  
74 13.4 17.8 26.6#





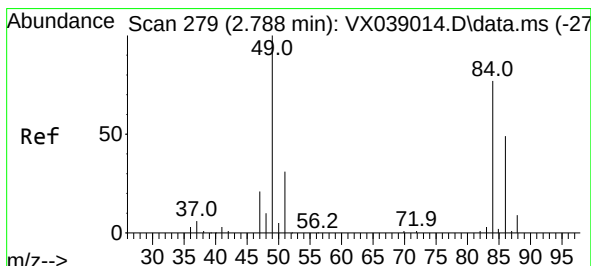
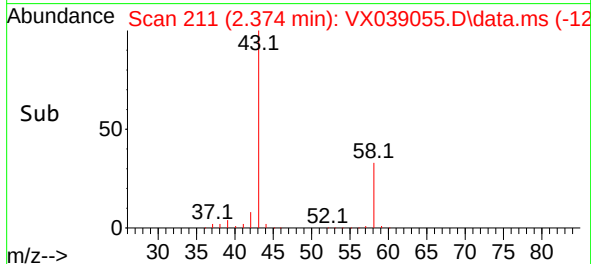
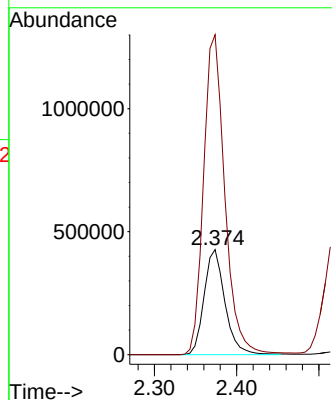
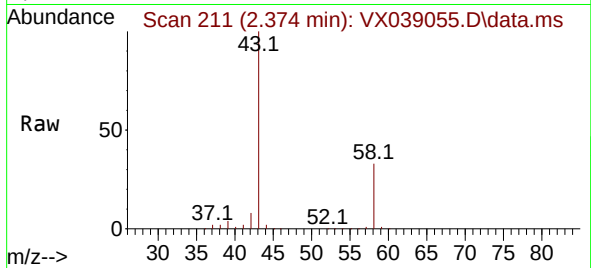
#15  
Acetone  
Concen: 1915.098 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Tgt Ion: 58 Resp: 751123  
Ion Ratio Lower Upper  
58 100  
43 304.2 249.9 374.9

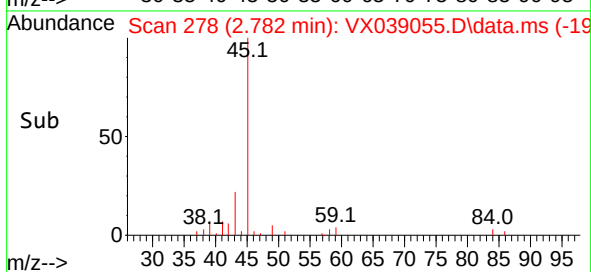
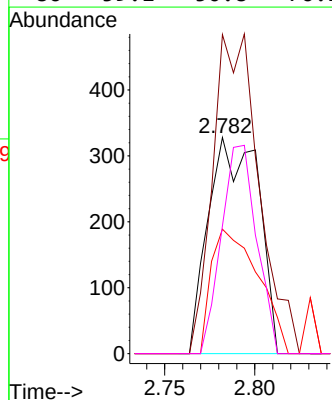
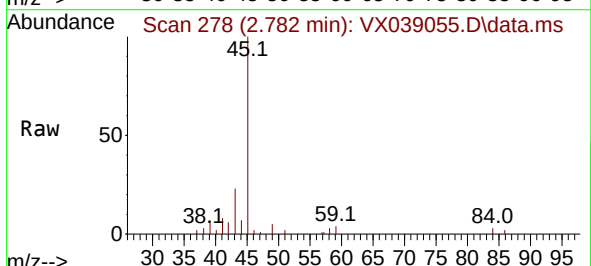
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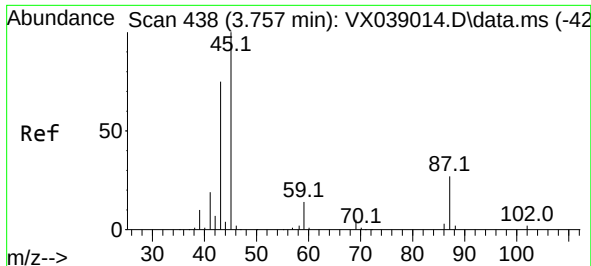
Reviewed By :John Carlone 11/30/2023  
Supervised By :Mahesh Dadoda 11/30/2023



#18  
Methylene Chloride  
Concen: 0.378 ug/l m  
RT: 2.782 min Scan# 278  
Delta R.T. -0.006 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Tgt Ion: 84 Resp: 634  
Ion Ratio Lower Upper  
84 100  
49 147.6 103.8 155.8  
51 57.6 31.8 47.6#  
86 59.1 50.8 76.2





#20

Diisopropyl ether

Concen: 5.008 ug/l

RT: 3.751 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

Tgt Ion: 45 Resp: 2676

Ion Ratio Lower Upper

45 100

43 50.1 67.7 101.5

87 30.4 21.5 32.3

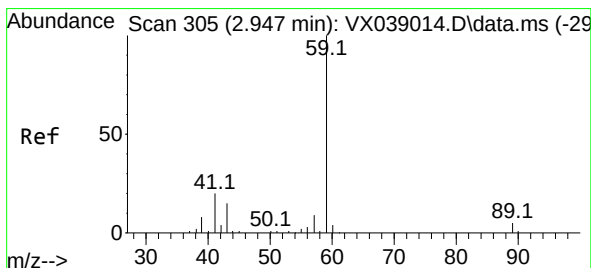
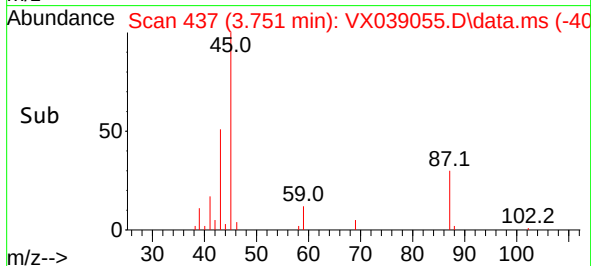
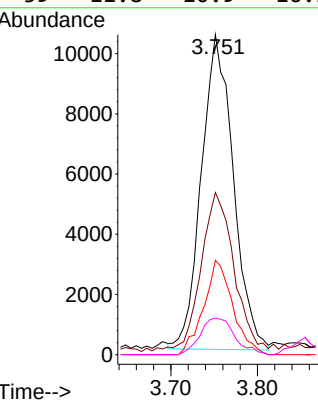
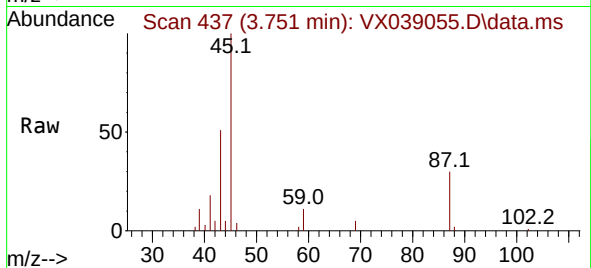
59 11.8 10.9 16.3

Manual Integrations

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Reviewed By :John Carlone 11/30/2023

Supervised By :Mahesh Dadoda 11/30/2023



#23

tert-Butyl Alcohol

Concen: 9.171 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.006 min

Lab File: VX039055.D

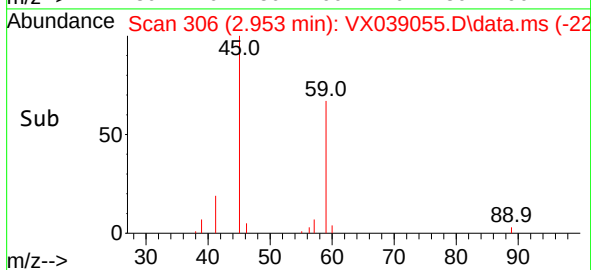
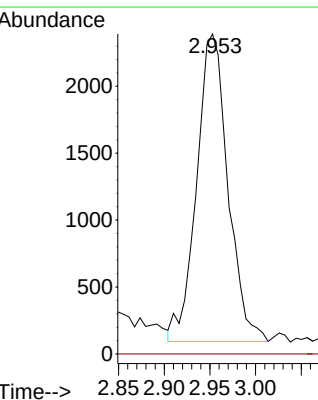
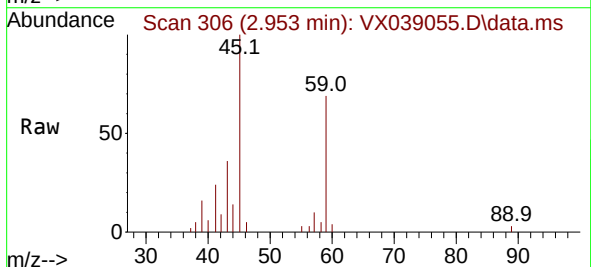
Acq: 29 Nov 2023 13:49

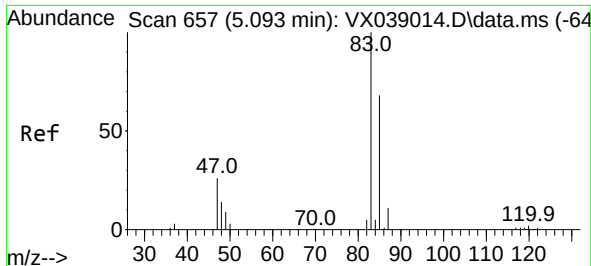
Tgt Ion: 59 Resp: 5478

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





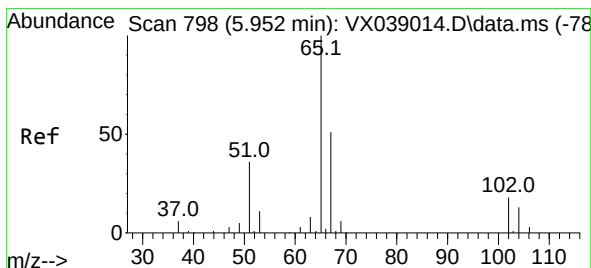
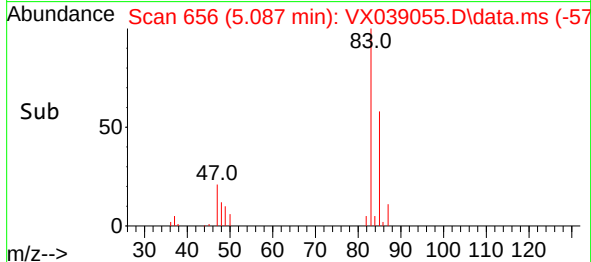
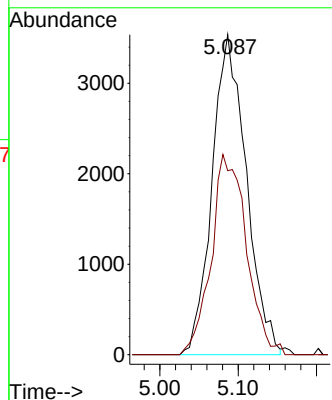
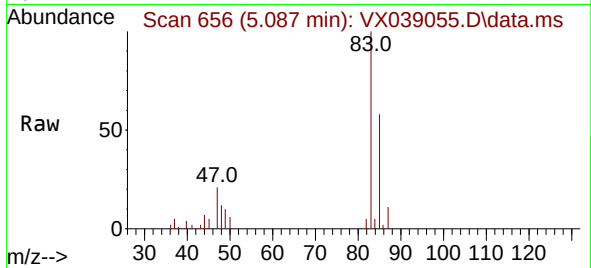
#25  
Chloroform  
Concen: 3.598 ug/l  
RT: 5.087 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Tgt Ion: 83 Resp: 10728  
Ion Ratio Lower Upper  
83 100  
85 57.5 54.6 81.8

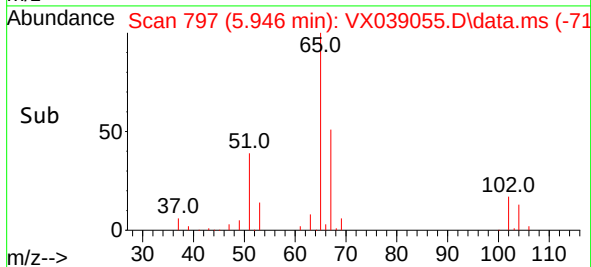
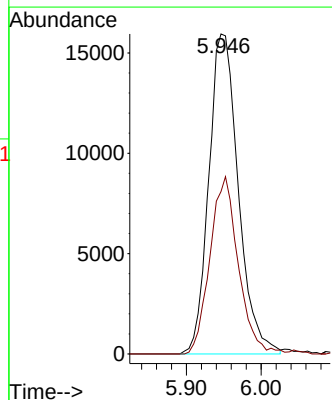
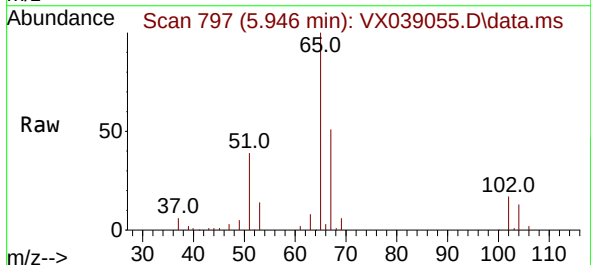
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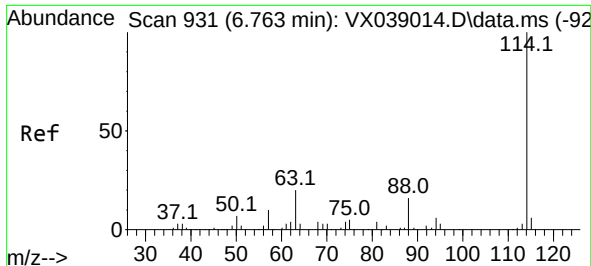
Reviewed By :John Carlone 11/30/2023  
Supervised By :Mahesh Dadoda 11/30/2023



#27  
1,2-Dichloroethane-d4  
Concen: 30.731 ug/l  
RT: 5.946 min Scan# 797  
Delta R.T. -0.006 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Tgt Ion: 65 Resp: 43720  
Ion Ratio Lower Upper  
65 100  
67 52.5 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

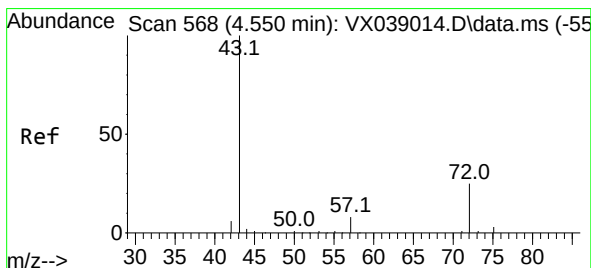
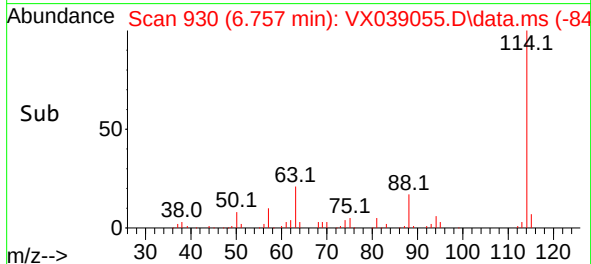
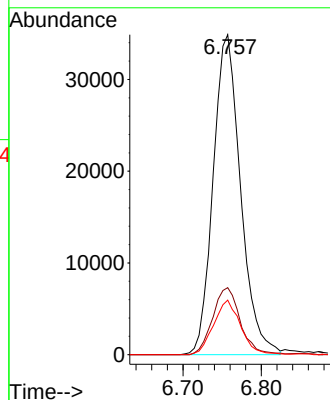
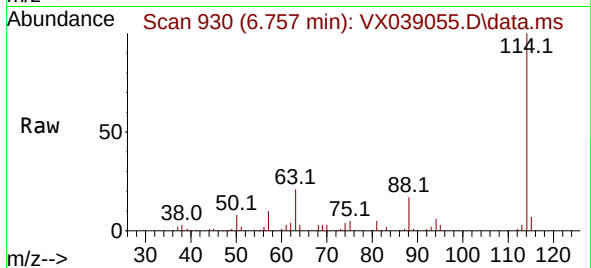
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 114   | Resp: | 8491 |
| Ion Ratio | Lower | Upper |      |
| 114       | 100   |       |      |
| 63        | 21.1  | 17.0  | 25.4 |
| 88        | 16.8  | 12.7  | 19.1 |

Manual Integrations

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Reviewed By :John Carlone 11/30/2023

Supervised By :Mahesh Dadoda 11/30/2023



#30

2-Butanone

Concen: 2.082 ug/l m

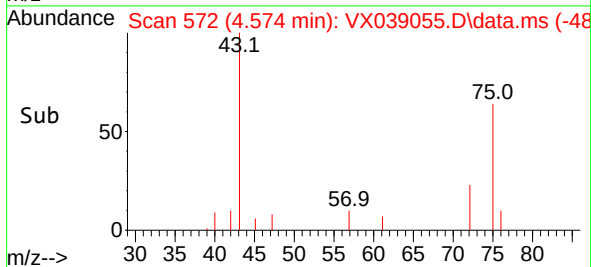
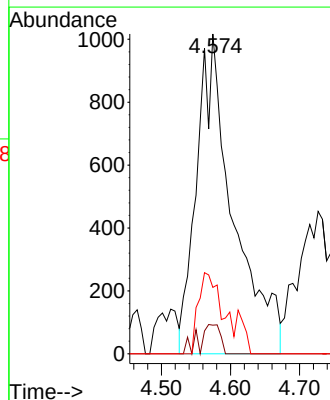
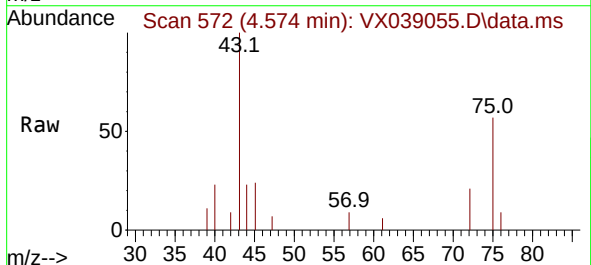
RT: 4.574 min Scan# 572

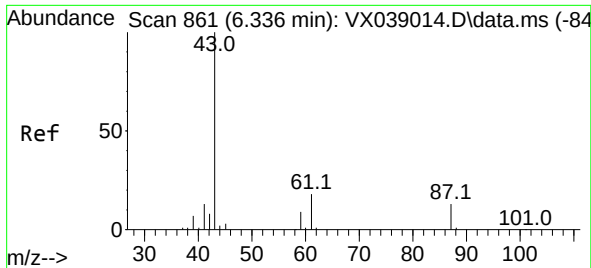
Delta R.T. 0.024 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 3732  |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 57        | 3.9   | 6.6   | 10.0# |
| 72        | 13.5  | 20.6  | 31.0# |





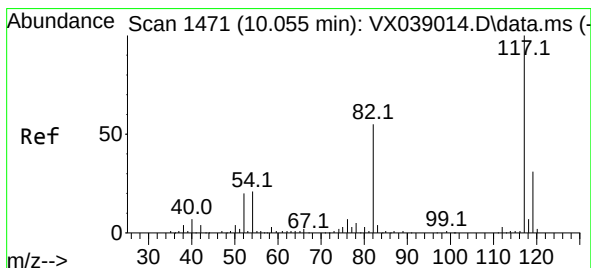
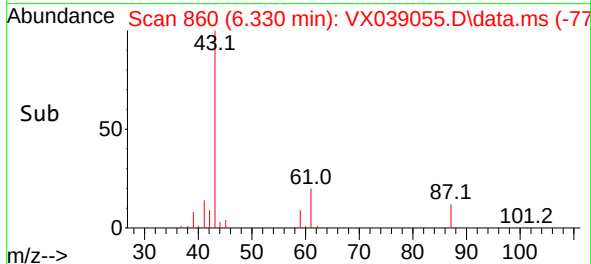
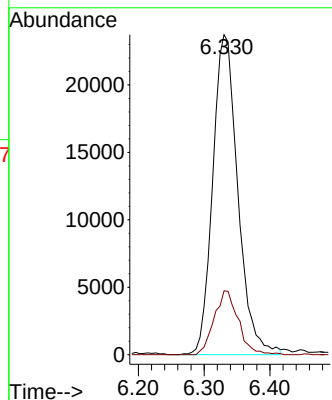
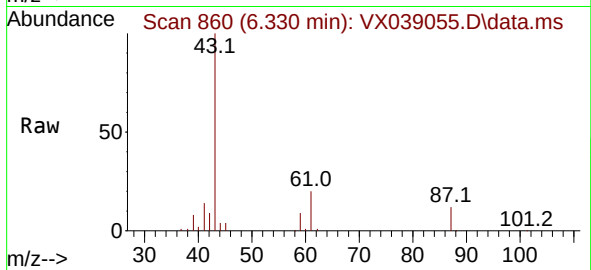
#44  
Isopropyl Acetate  
Concen: 12.974 ug/l  
RT: 6.330 min Scan# 861  
Delta R.T. -0.006 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Tgt Ion: 43 Resp: 63062  
Ion Ratio Lower Upper  
43 100  
61 19.1 15.6 23.4

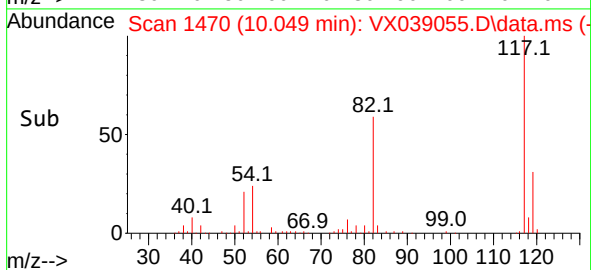
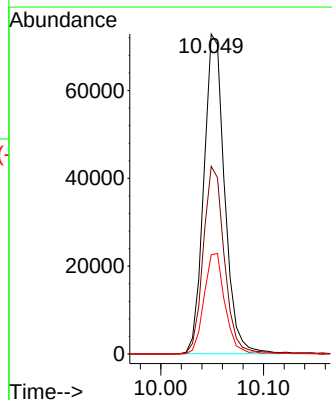
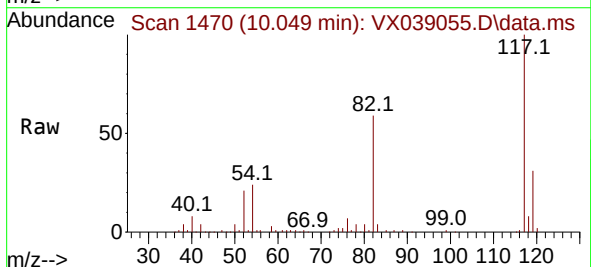
Manual Integrations  
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Supervised By :Mahesh Dadoda 11/30/2023

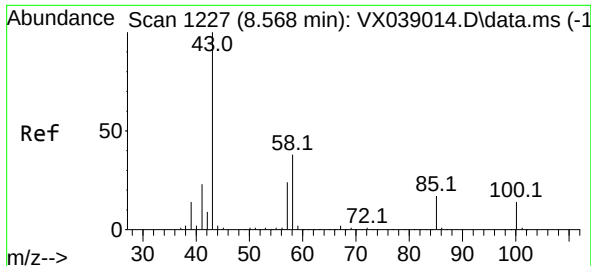


#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.006 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Tgt Ion:117 Resp: 102600  
Ion Ratio Lower Upper  
117 100  
82 59.7 47.0 70.6  
119 31.5 25.2 37.8







#58

4-Methyl-2-Pentanone

Concen: 3.605 ug/l

RT: 8.568 min Scan# 11210

Delta R.T. 0.000 min

Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Instrument :

MSVOA\_X

ClientSampleId :

EFF-WW

Tgt Ion: 43 Resp: 11210

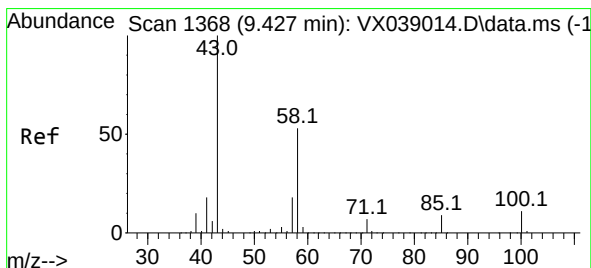
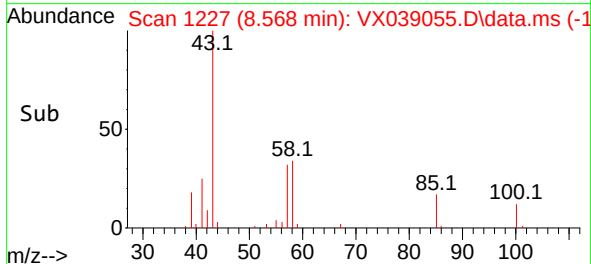
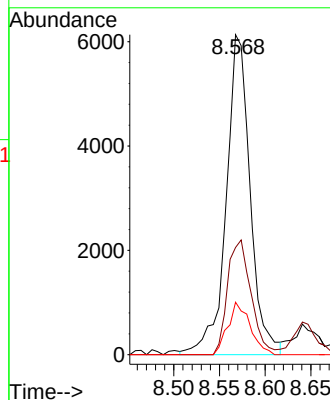
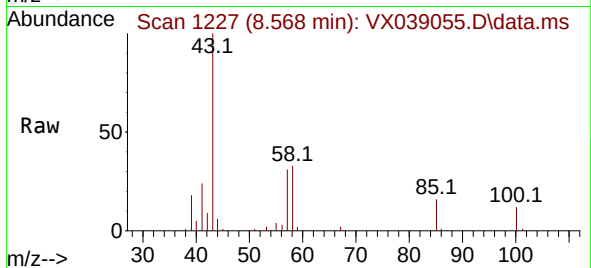
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 35.0  | 30.1  | 45.1  |
| 85  | 15.2  | 13.9  | 20.9  |

Manual Integrations

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Reviewed By :John Carlone 11/30/2023

Supervised By :Mahesh Dadoda 11/30/2023



#59

2-Hexanone

Concen: 0.538 ug/l

RT: 9.439 min Scan# 1370

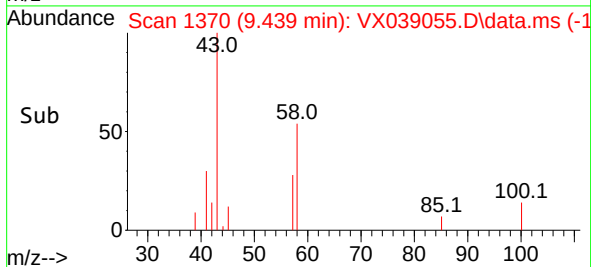
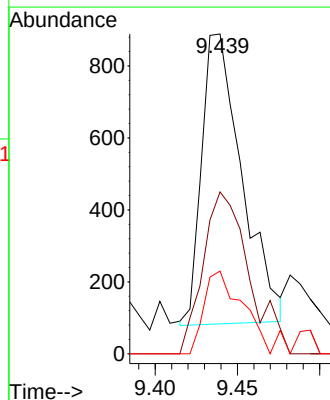
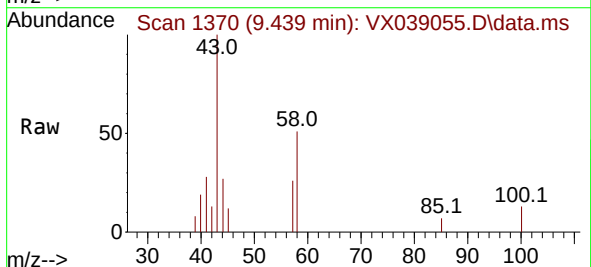
Delta R.T. 0.012 min

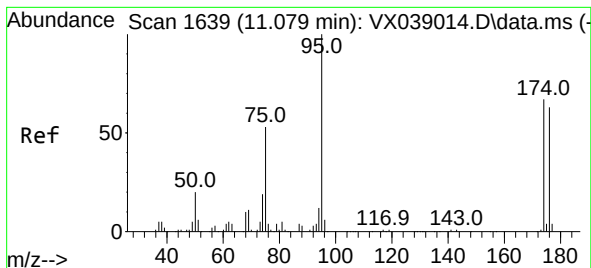
Lab File: VX039055.D

Acq: 29 Nov 2023 13:49

Tgt Ion: 43 Resp: 1373

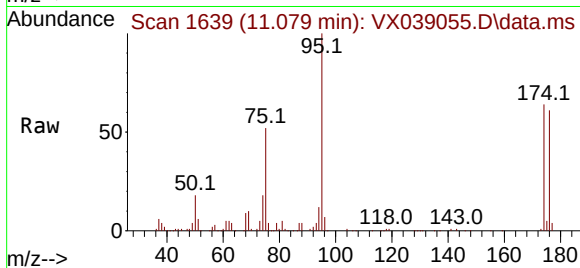
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 57.5  | 42.7  | 64.1  |
| 57  | 27.0  | 14.8  | 22.2  |





#60  
4-Bromofluorobenzene  
Concen: 29.130 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

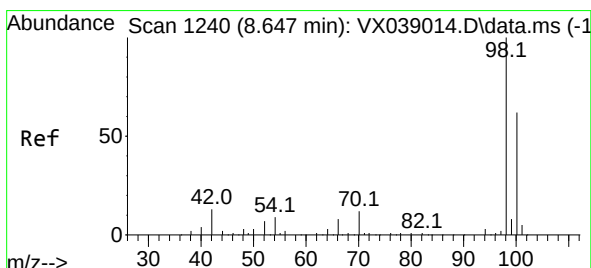
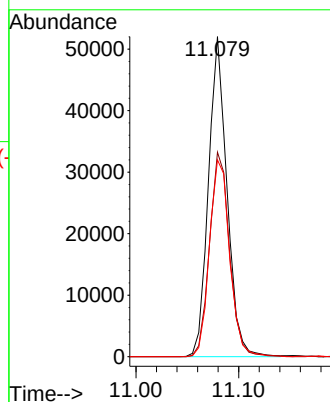
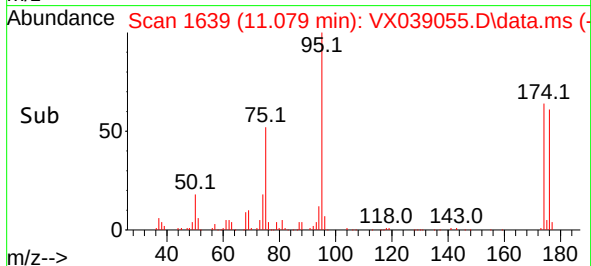
Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW



Tgt Ion: 95 Resp: 65280  
Ion Ratio Lower Upper  
95 100  
174 68.6 55.4 83.2  
176 66.8 52.6 78.8

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/30/2023  
Supervised By :Mahesh Dadoda 11/30/2023



#63  
Toluene-d8  
Concen: 30.500 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX039055.D  
Acq: 29 Nov 2023 13:49

Tgt Ion: 98 Resp: 123720  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.0 76.4

