

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100623\  
 Data File : VX038121.D  
 Acq On : 06 Oct 2023 11:28  
 Operator : JC/MD  
 Sample : 04718-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 A455

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/06/2023  
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 06 11:53:38 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 5.556          | 168  | 109343     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.763          | 114  | 197676     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.055         | 117  | 193811     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024         | 152  | 102090     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.958          | 65   | 81142      | 46.137   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 78 - 117 |      | Recovery = | 92.280%  |        |          |
| 35) Dibromofluoromethane    | 5.385          | 113  | 63477      | 44.565   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 89.120%  |        |          |
| 50) Toluene-d8              | 8.647          | 98   | 247033     | 45.386   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 92 - 112 |      | Recovery = | 90.780%# |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 95224      | 46.148   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 92.300%  |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol      | 2.959          | 59   | 7969       | 9.873    | ug/l # | 91       |
| 16) Acetone                 | 2.380          | 43   | 119514     | 162.826  | ug/l   | 92       |
| 25) 2-Butanone              | 4.568          | 43   | 16804      | 14.189   | ug/l   | 99       |
| 30) Chloroform              | 5.099          | 83   | 2573       | 1.034    | ug/l   | 97       |
| 31) Cyclohexane             | 5.464          | 56   | 1018m      | 0.534    | ug/l   |          |
| 39) Methylcyclohexane       | 7.385          | 83   | 2101       | 0.913    | ug/l   | 87       |
| 40) Benzene                 | 6.044          | 78   | 9652       | 1.757    | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone    | 8.574          | 43   | 25368      | 10.561   | ug/l   | 99       |
| 52) Toluene                 | 8.720          | 92   | 64136      | 17.922   | ug/l   | 91       |
| 67) Ethyl Benzene           | 10.195         | 91   | 115952     | 16.017   | ug/l   | 100      |
| 68) m/p-Xylenes             | 10.299         | 106  | 131722     | 47.058   | ug/l   | 99       |
| 69) o-Xylene                | 10.640         | 106  | 80731      | 29.551   | ug/l   | 99       |
| 73) Isopropylbenzene        | 10.963         | 105  | 30333      | 4.430    | ug/l   | 100      |
| 78) n-propylbenzene         | 11.305         | 91   | 67149      | 8.021    | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.451         | 105  | 69890      | 11.832   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene  | 11.750         | 105  | 304970     | 51.784   | ug/l   | 97       |
| 85) sec-Butylbenzene        | 11.890         | 105  | 21977      | 2.939    | ug/l   | 95       |
| 86) p-Isopropyltoluene      | 12.012         | 119  | 15628      | 2.534    | ug/l   | 97       |
| 89) n-Butylbenzene          | 12.329         | 91   | 28485      | 4.637    | ug/l # | 36       |
| 95) Naphthalene             | 13.774         | 128  | 64957      | 8.618    | ug/l   | 97       |
| -----                       |                |      |            |          |        |          |

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

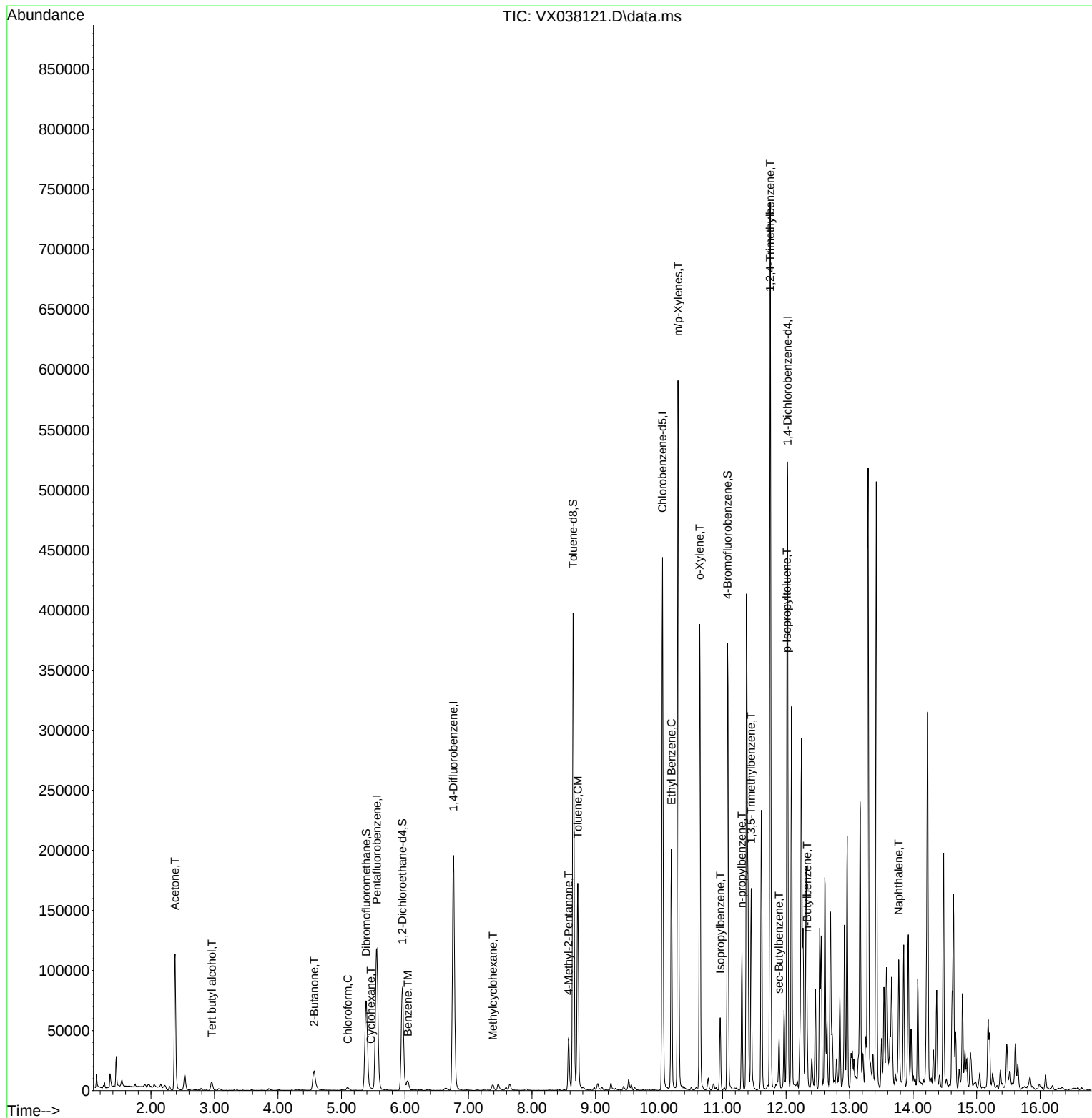
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100623\  
Data File : VX038121.D  
Acq On : 06 Oct 2023 11:28  
Operator : JC/MD  
Sample : 04718-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

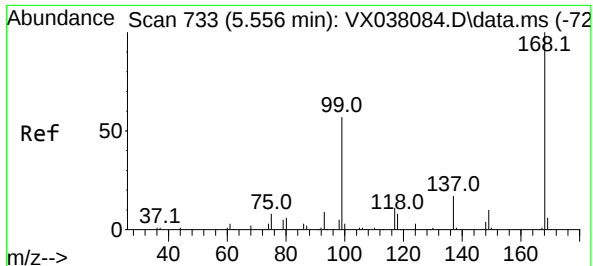
Instrument :  
MSVOA\_X  
ClientSampleId :  
A455

Quant Time: Oct 06 11:53:38 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

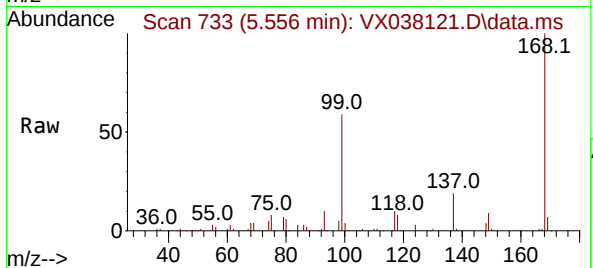
Reviewed By : John Carlone 10/06/2023  
Supervised By : Mahesh Dadoda 10/09/2023





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

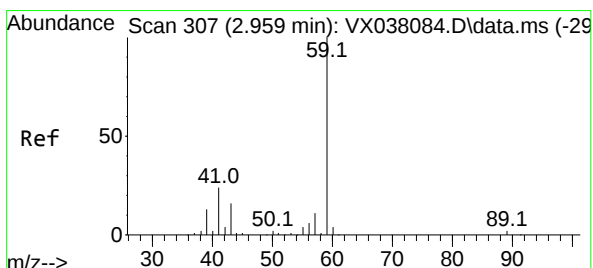
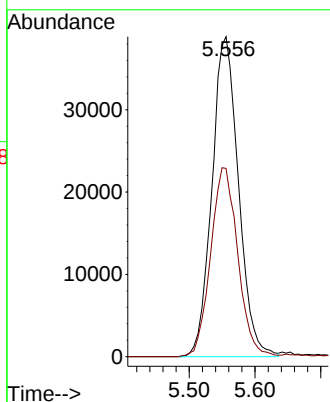
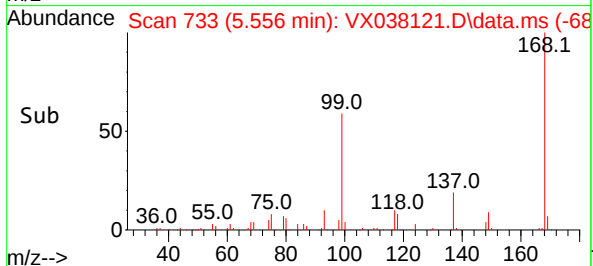
Instrument :  
MSVOA\_X  
ClientSampleId :  
A455



Tgt Ion:168 Resp: 10934  
Ion Ratio Lower Upper  
168 100  
99 58.8 56.6 85.0

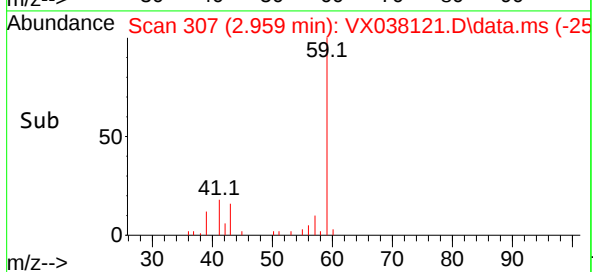
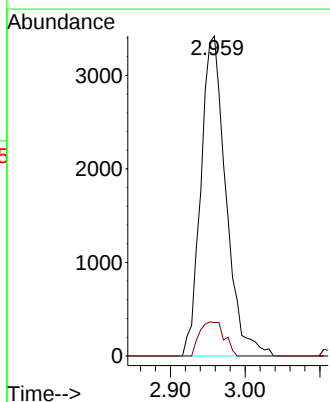
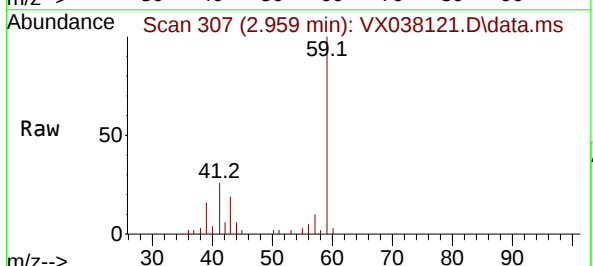
Manual Integrations  
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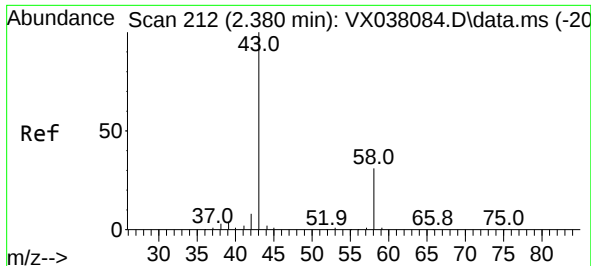
Reviewed By :John Carlone 10/06/2023  
Supervised By :Mahesh Dadoda 10/09/2023



#11  
Tert butyl alcohol  
Concen: 9.873 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

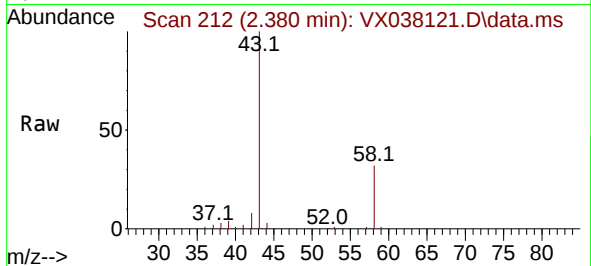
Tgt Ion: 59 Resp: 7969  
Ion Ratio Lower Upper  
59 100  
57 10.5 6.0 9.0#





#16  
Acetone  
Concen: 162.826 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

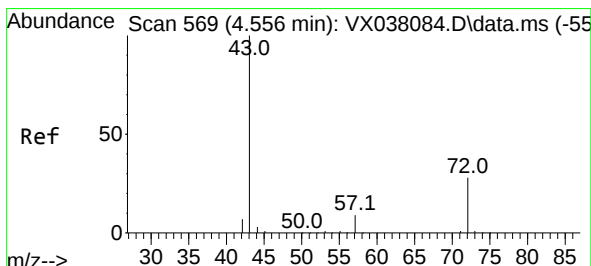
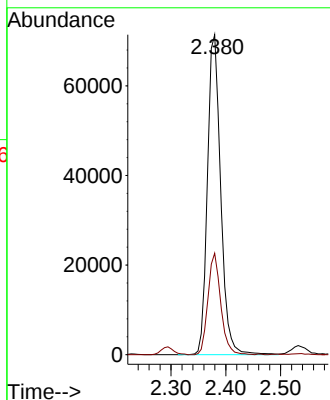
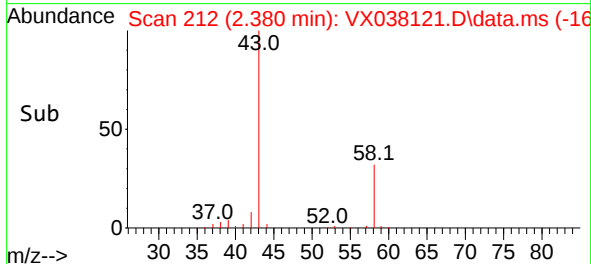
Instrument :  
MSVOA\_X  
ClientSampleId :  
A455



Tgt Ion: 43 Resp: 119514  
Ion Ratio Lower Upper  
43 100  
58 31.6 21.9 32.9

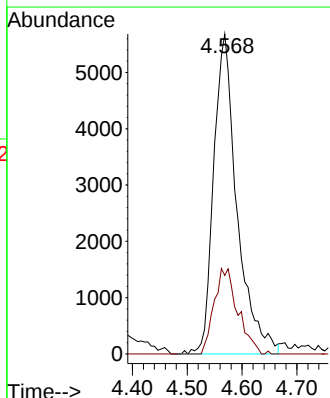
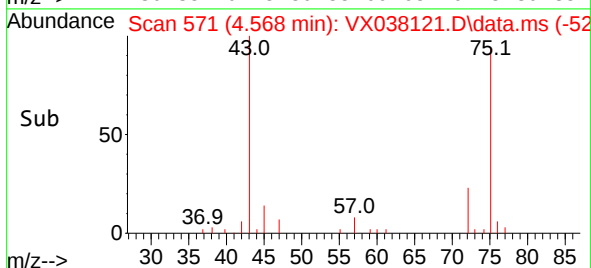
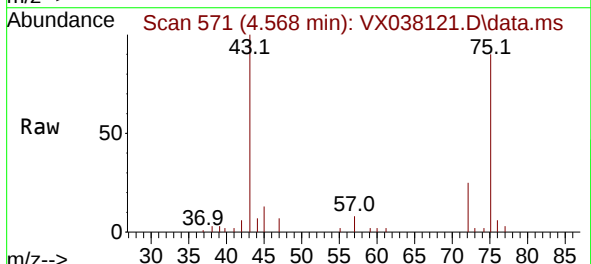
Manual Integrations  
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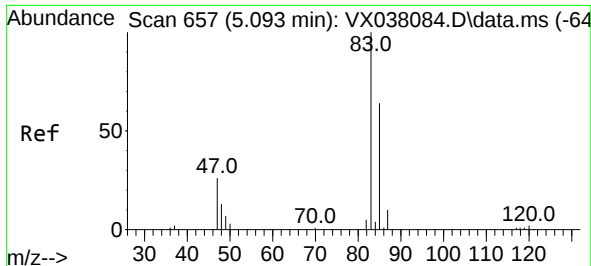
Reviewed By :John Carlone 10/06/2023  
Supervised By :Mahesh Dadoda 10/09/2023



#25  
2-Butanone  
Concen: 14.189 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

Tgt Ion: 43 Resp: 16804  
Ion Ratio Lower Upper  
43 100  
72 24.6 19.4 29.2





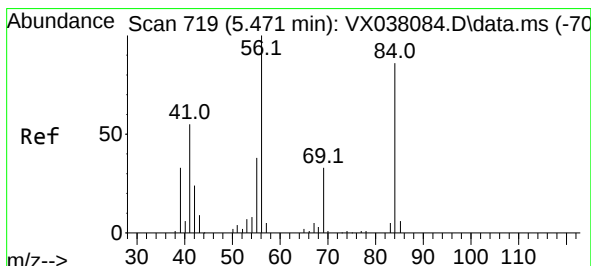
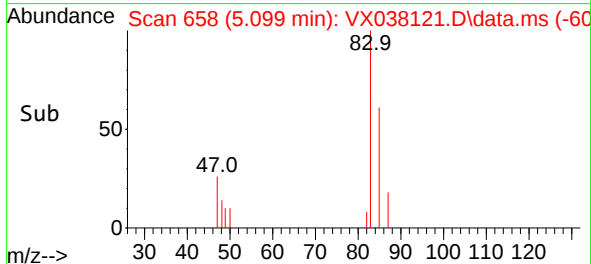
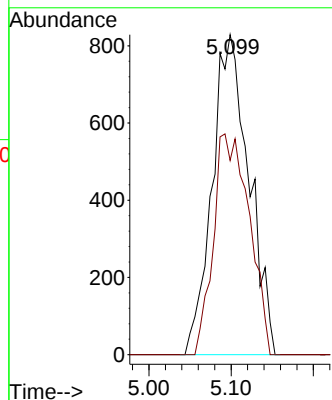
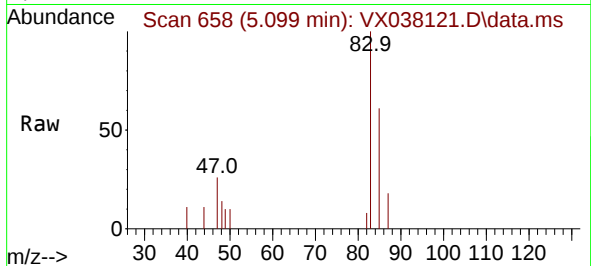
#30  
Chloroform  
Concen: 1.034 ug/l  
RT: 5.099 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

Instrument :  
MSVOA\_X  
ClientSampleId :  
A455

Tgt Ion: 83 Resp: 257  
Ion Ratio Lower Upper  
83 100  
85 60.7 50.3 75.5

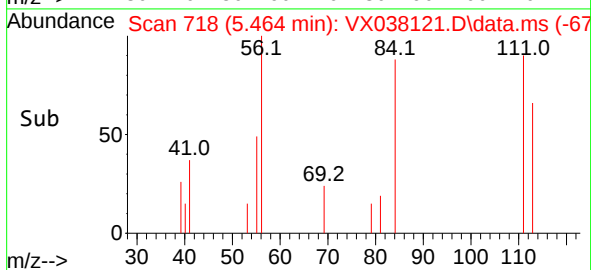
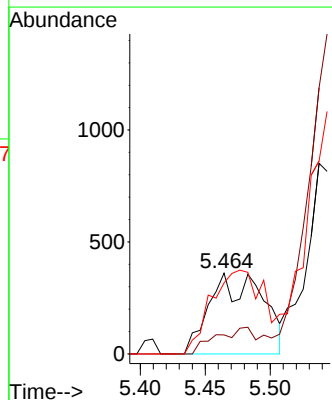
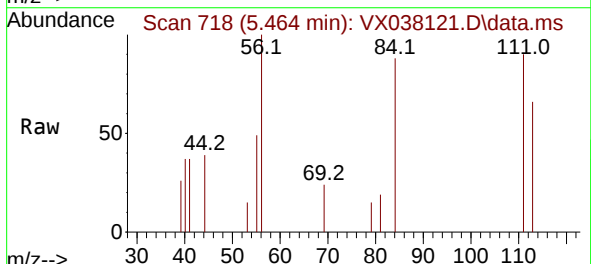
Manual Integrations  
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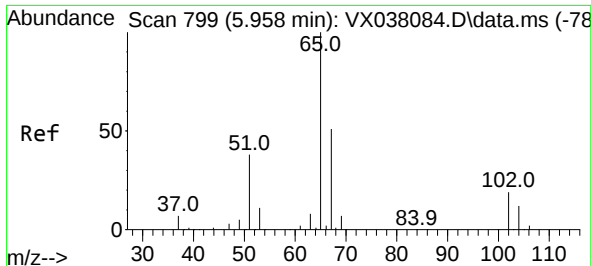
Reviewed By :John Carlone 10/06/2023  
Supervised By :Mahesh Dadoda 10/09/2023



#31  
Cyclohexane  
Concen: 0.534 ug/l m  
RT: 5.464 min Scan# 718  
Delta R.T. -0.007 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

Tgt Ion: 56 Resp: 1018  
Ion Ratio Lower Upper  
56 100  
69 23.5 23.4 35.2  
84 87.8 65.9 98.9





#33

1,2-Dichloroethane-d4

Concen: 46.137 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

Tgt Ion: 65 Resp: 8114

Ion Ratio Lower Upper

65 100

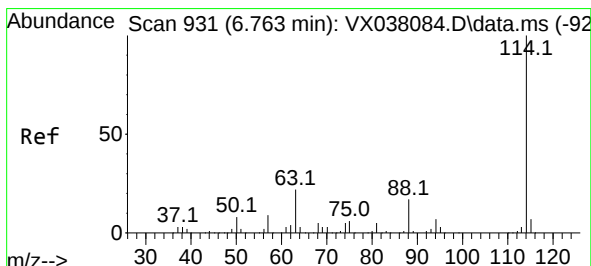
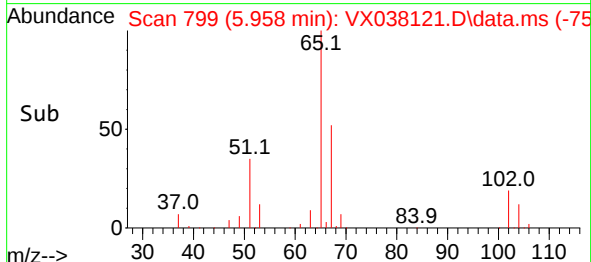
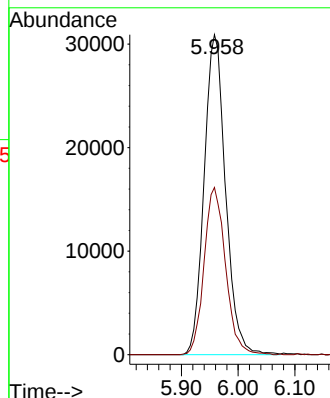
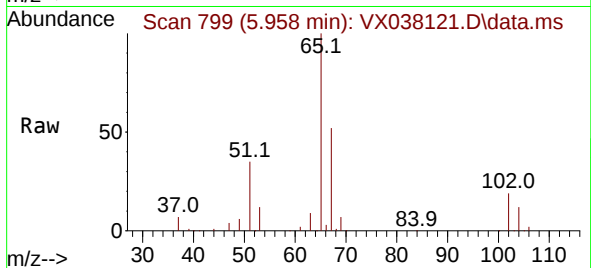
67 52.4 0.0 100.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

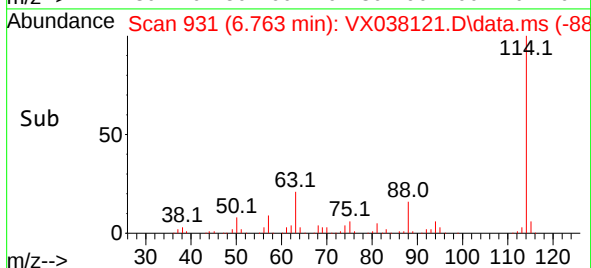
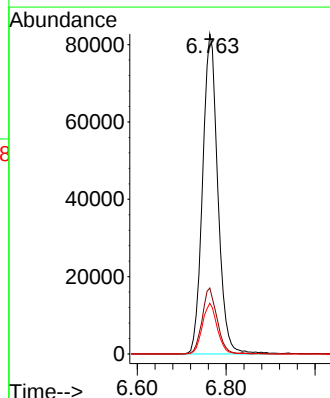
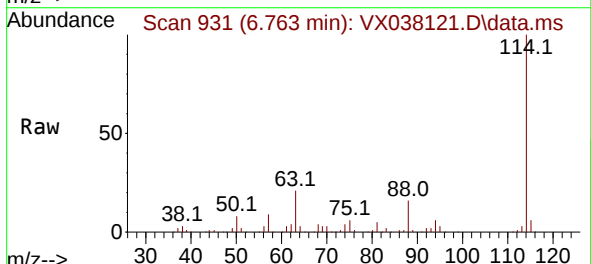
Tgt Ion:114 Resp: 197676

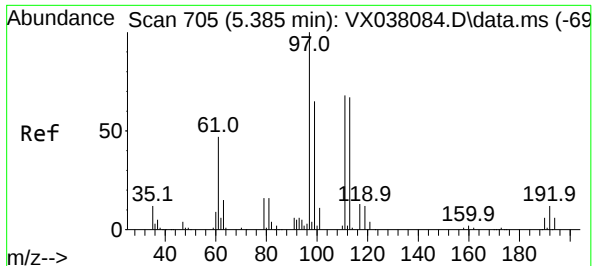
Ion Ratio Lower Upper

114 100

63 20.6 0.0 45.0

88 15.9 0.0 36.6





#35

Dibromofluoromethane

Concen: 44.565 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

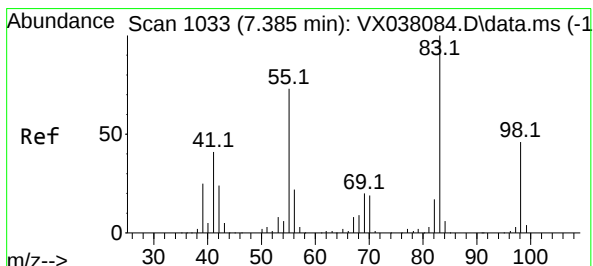
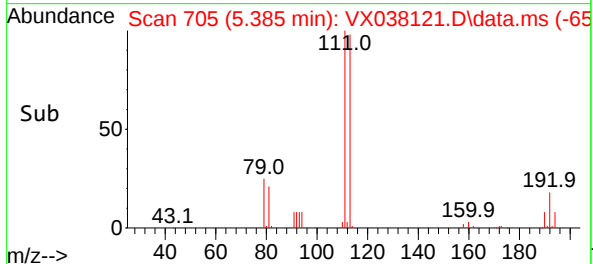
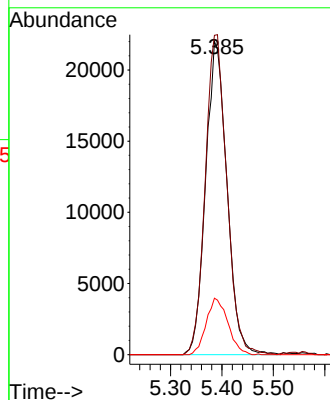
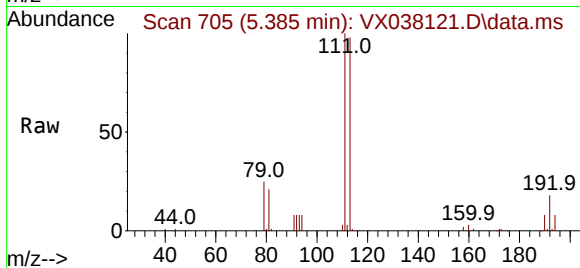
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 6347  |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.8 | 82.9  | 124.3 |
| 192      | 18.3  | 13.3  | 19.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#39

Methylcyclohexane

Concen: 0.913 ug/l

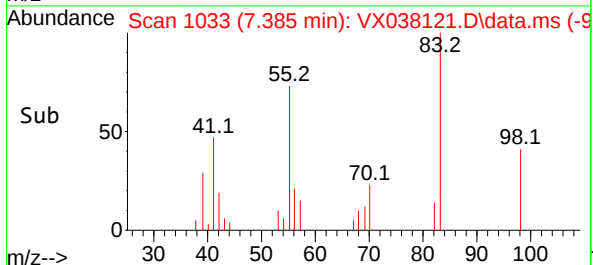
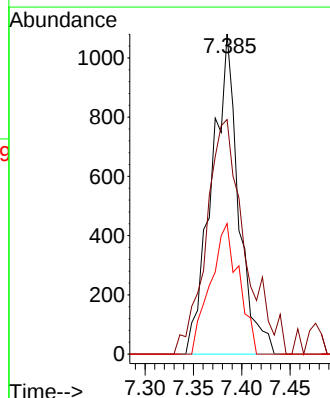
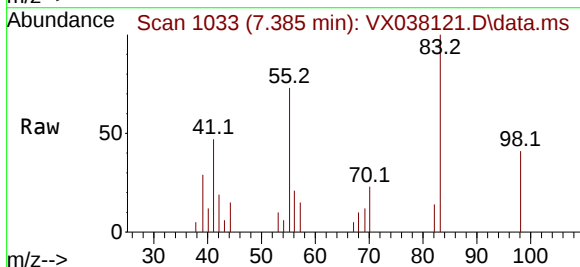
RT: 7.385 min Scan# 1033

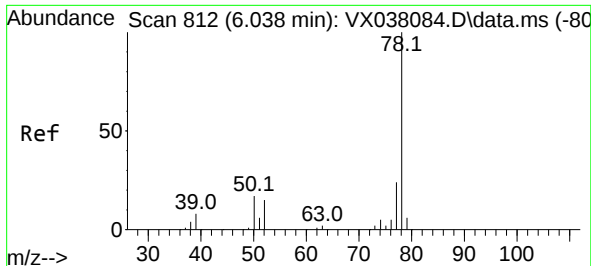
Delta R.T. -0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 2101  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 67.3  | 64.6  | 97.0  |
| 98       | 40.8  | 36.7  | 55.1  |





#40

Benzene

Concen: 1.757 ug/l

RT: 6.044 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

Tgt Ion: 78 Resp: 965

Ion Ratio Lower Upper

78 100

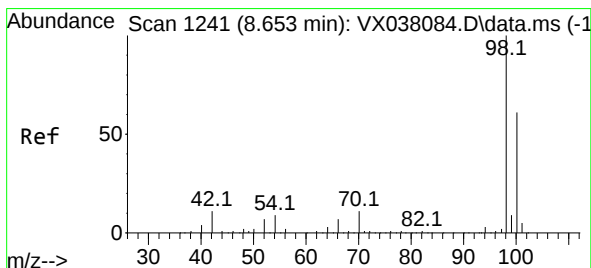
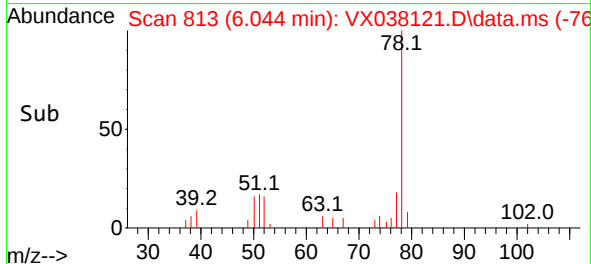
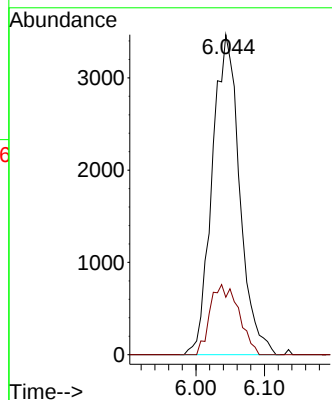
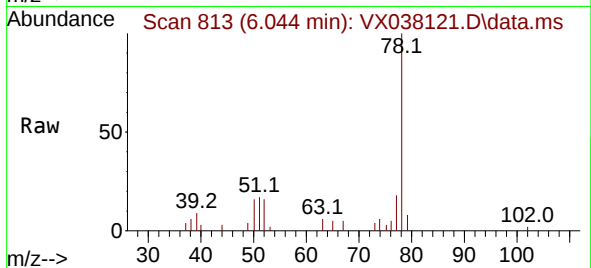
77 17.9 19.3 28.9

Manual Integrations

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Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#50

Toluene-d8

Concen: 45.386 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX038121.D

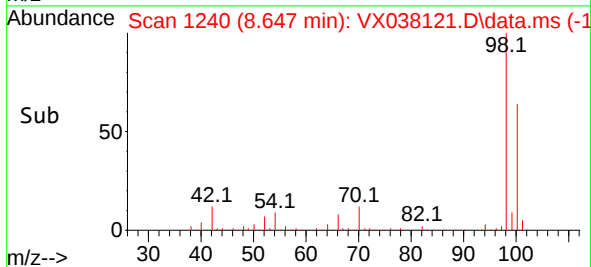
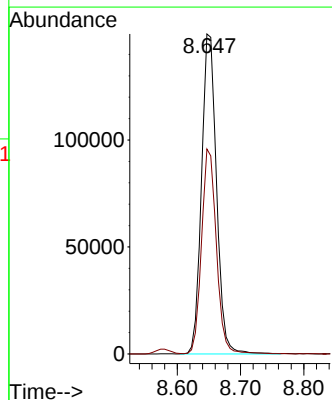
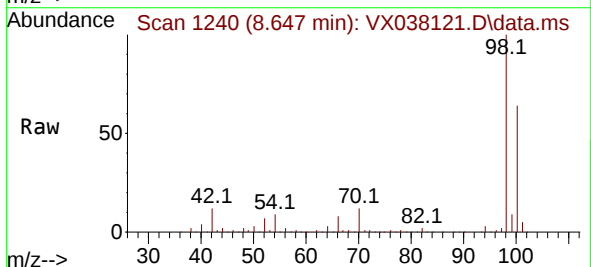
Acq: 06 Oct 2023 11:28

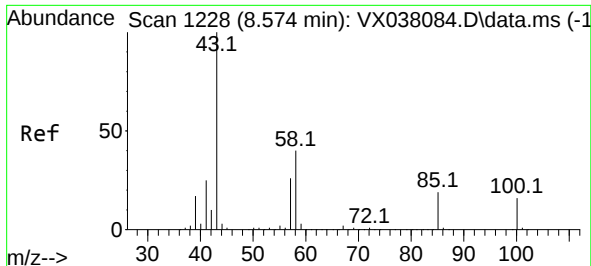
Tgt Ion: 98 Resp: 247033

Ion Ratio Lower Upper

98 100

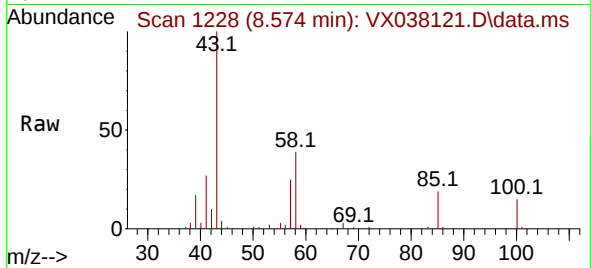
100 63.3 53.1 79.7





#51  
4-Methyl-2-Pentanone  
Concen: 10.561 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

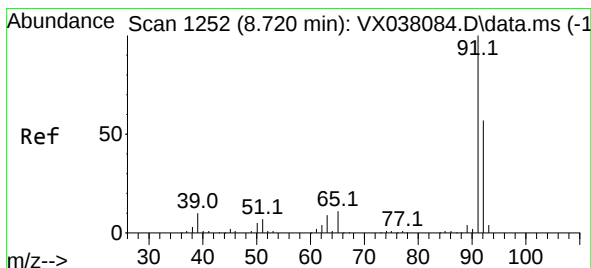
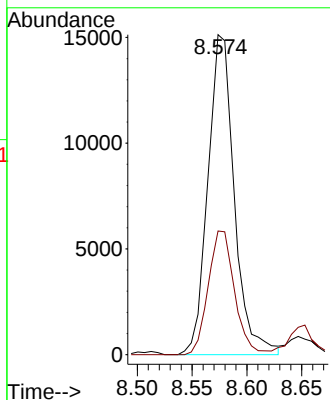
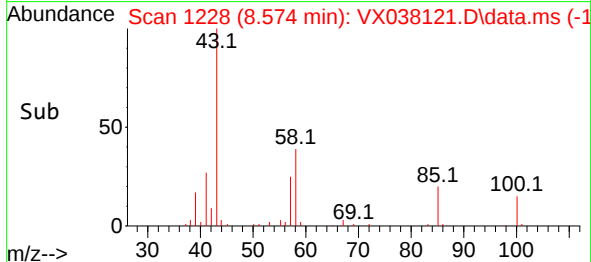
Instrument :  
MSVOA\_X  
ClientSampleId :  
A455



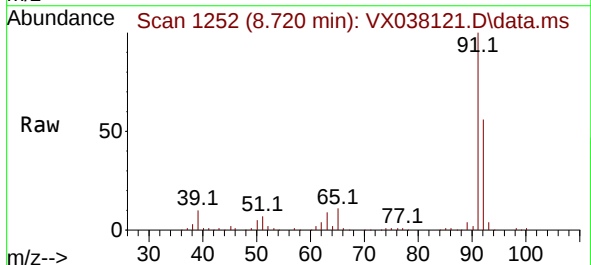
Tgt Ion: 43 Resp: 2536  
Ion Ratio Lower Upper  
43 100  
58 38.6 30.4 45.6

Manual Integrations  
APPROVED

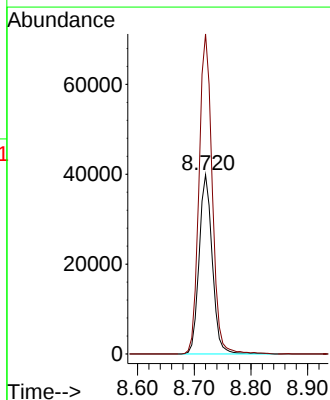
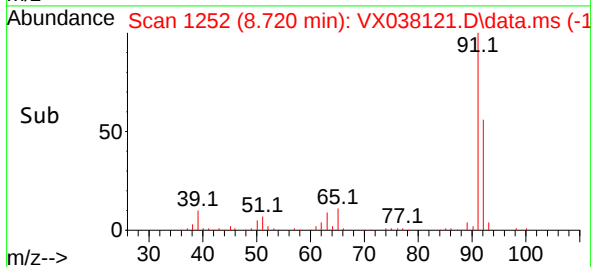
Reviewed By :John Carlone 10/06/2023  
Supervised By :Mahesh Dadoda 10/09/2023

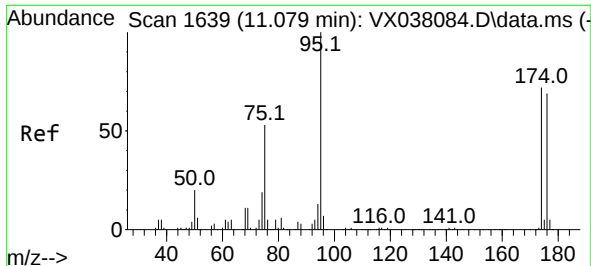


#52  
Toluene  
Concen: 17.922 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28



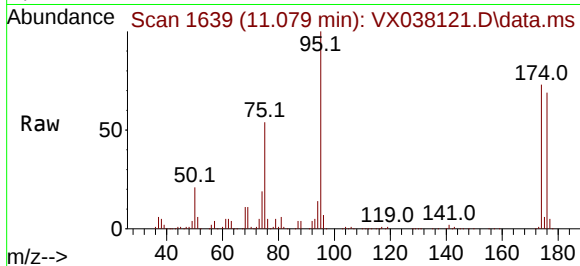
Tgt Ion: 92 Resp: 64136  
Ion Ratio Lower Upper  
92 100  
91 179.2 134.2 201.2





#62  
4-Bromofluorobenzene  
Concen: 46.148 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

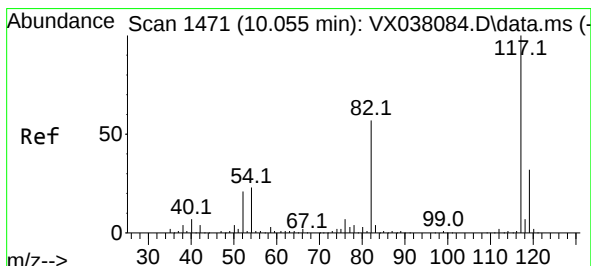
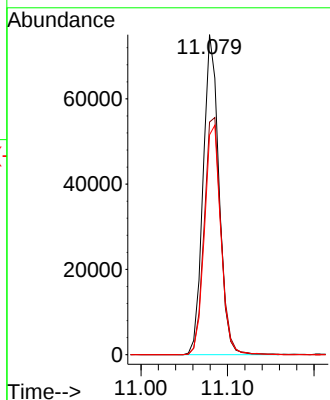
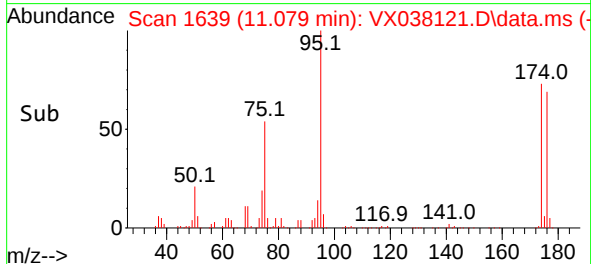
Instrument :  
MSVOA\_X  
ClientSampleId :  
A455



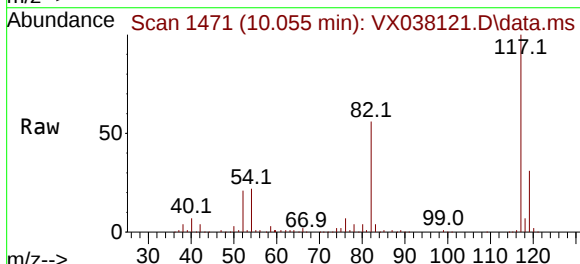
Tgt Ion: 95 Resp: 95224  
Ion Ratio Lower Upper  
95 100  
174 78.5 0.0 135.6  
176 74.3 0.0 131.0

Manual Integrations  
APPROVED

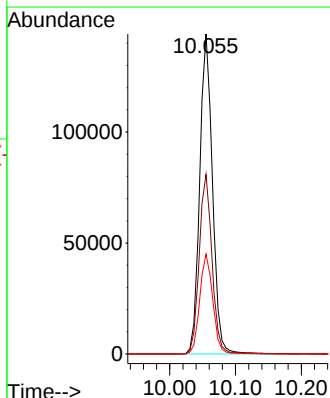
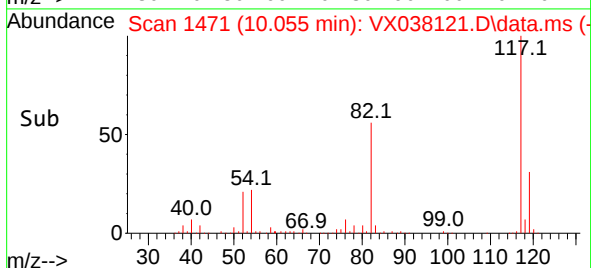
Reviewed By :John Carlone 10/06/2023  
Supervised By :Mahesh Dadoda 10/09/2023

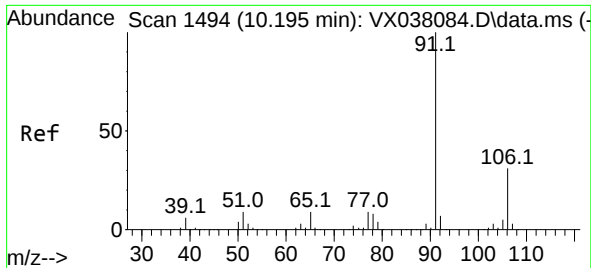


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28



Tgt Ion:117 Resp: 193811  
Ion Ratio Lower Upper  
117 100  
82 56.1 46.2 69.4  
119 31.2 25.5 38.3





#67

Ethyl Benzene

Concen: 16.017 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

Tgt Ion: 91 Resp: 115952

Ion Ratio Lower Upper

91 100

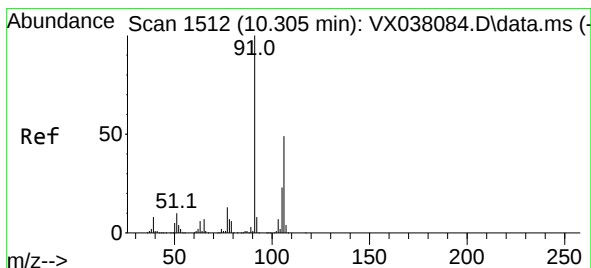
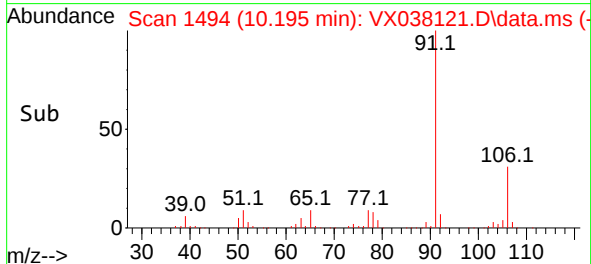
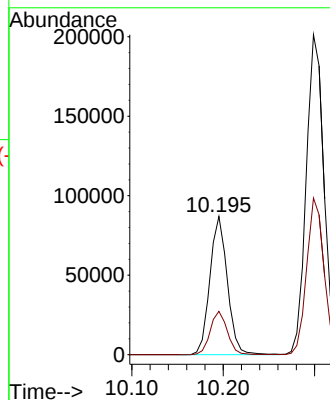
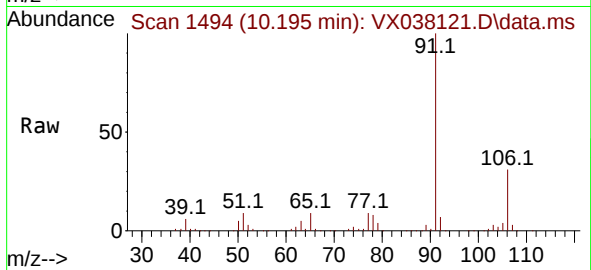
106 31.3 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#68

m/p-Xylenes

Concen: 47.058 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.006 min

Lab File: VX038121.D

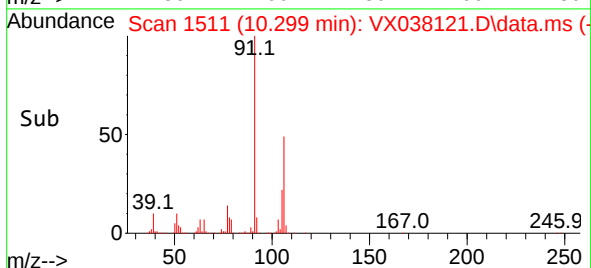
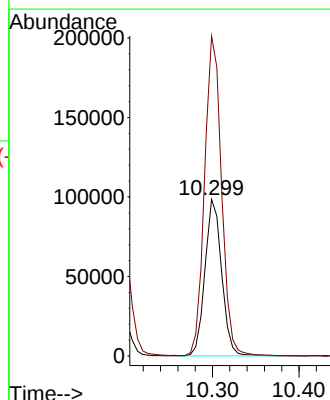
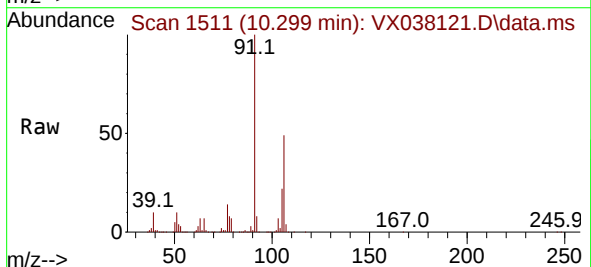
Acq: 06 Oct 2023 11:28

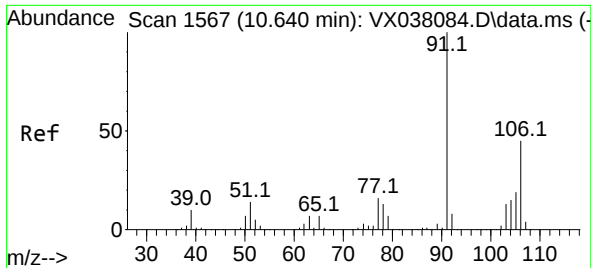
Tgt Ion:106 Resp: 131722

Ion Ratio Lower Upper

106 100

91 208.2 165.5 248.3





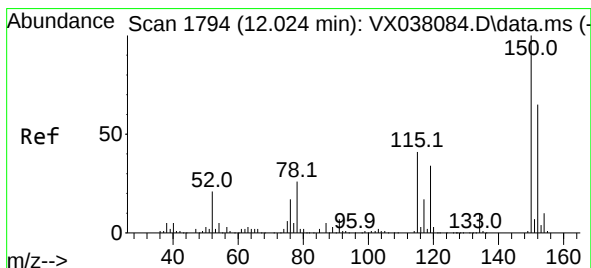
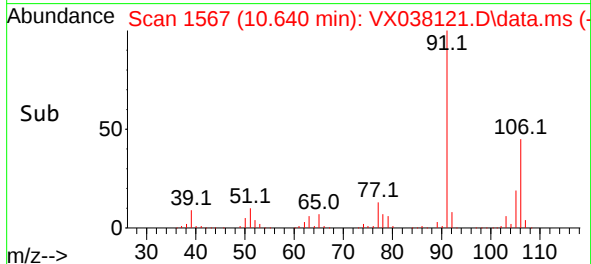
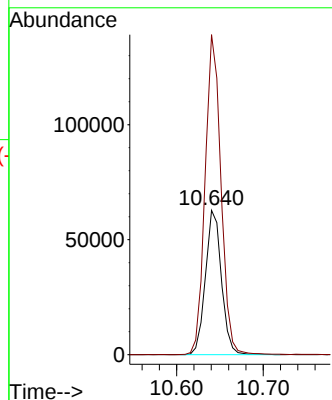
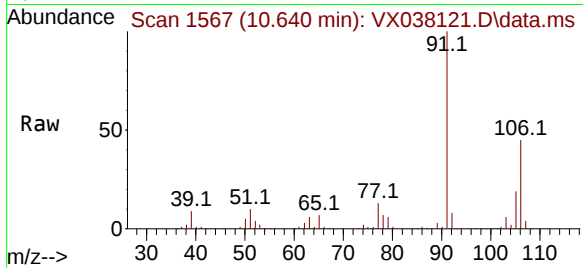
#69  
o-Xylene  
Concen: 29.551 ug/l  
RT: 10.640 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

Instrument :  
MSVOA\_X  
ClientSampleId :  
A455

Tgt Ion:106 Resp: 8073  
Ion Ratio Lower Upper  
106 100  
91 219.7 108.9 326.8

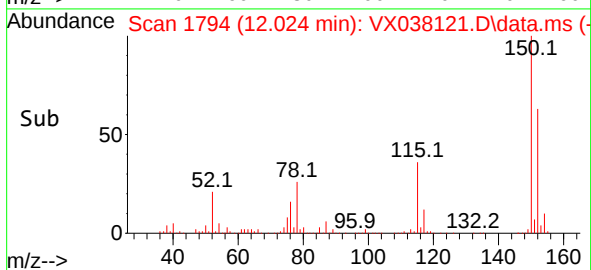
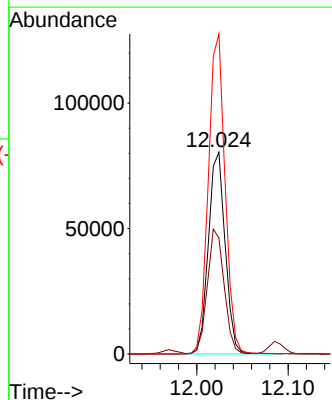
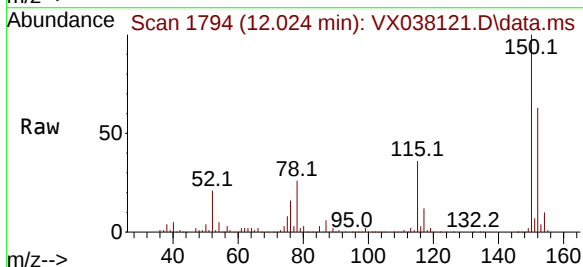
Manual Integrations  
APPROVED

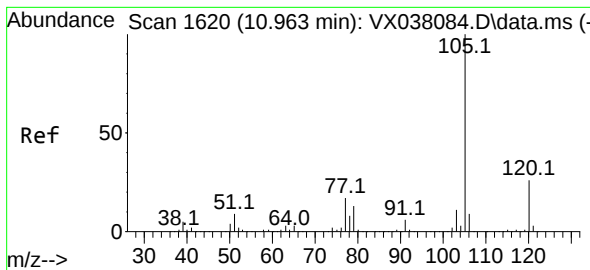
Reviewed By :John Carlone 10/06/2023  
Supervised By :Mahesh Dadoda 10/09/2023



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX038121.D  
Acq: 06 Oct 2023 11:28

Tgt Ion:152 Resp: 102090  
Ion Ratio Lower Upper  
152 100  
115 62.2 43.3 129.9  
150 158.5 0.0 345.0





#73

Isopropylbenzene

Concen: 4.430 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

Tgt Ion:105 Resp: 3033

Ion Ratio Lower Upper

105 100

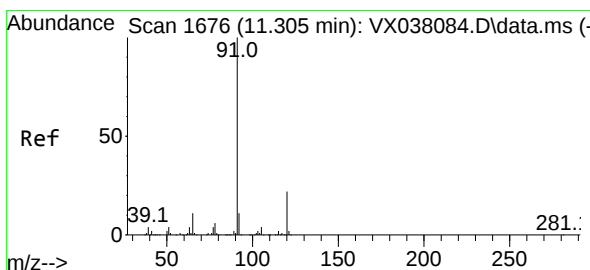
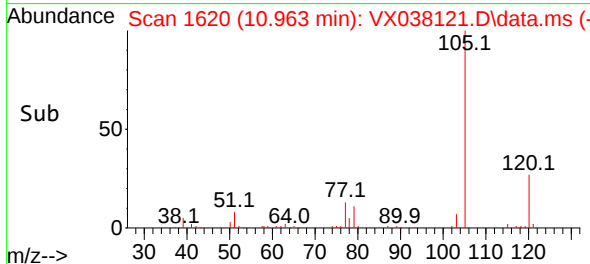
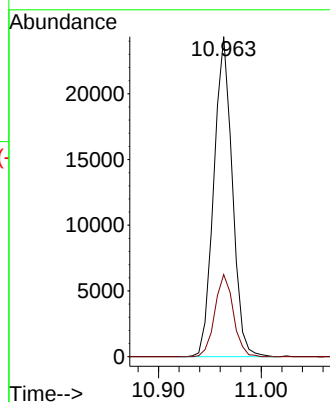
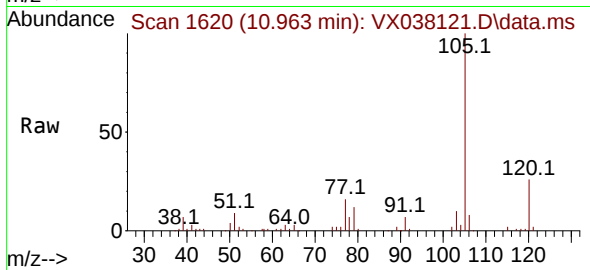
120 25.6 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#78

n-propylbenzene

Concen: 8.021 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX038121.D

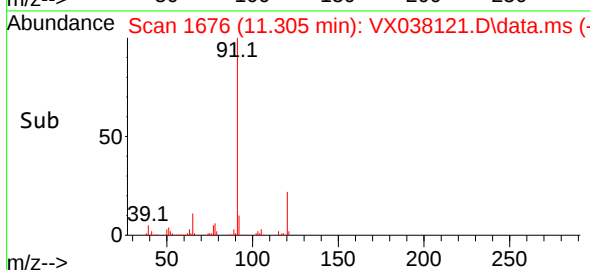
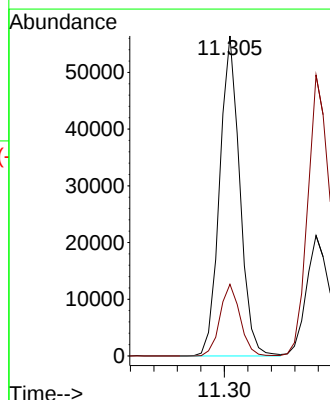
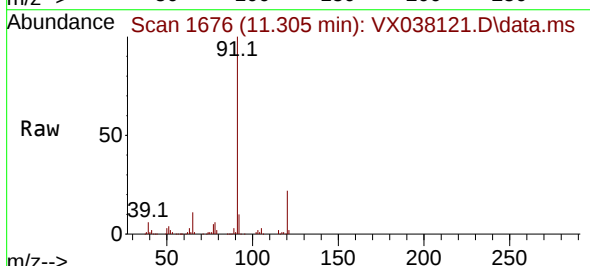
Acq: 06 Oct 2023 11:28

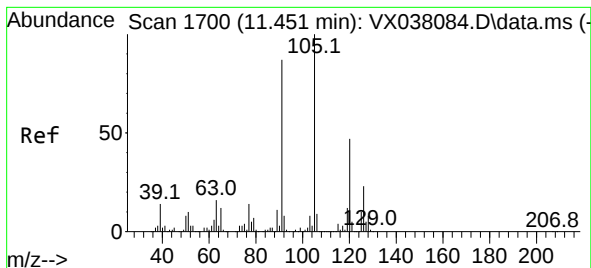
Tgt Ion: 91 Resp: 67149

Ion Ratio Lower Upper

91 100

120 22.4 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 11.832 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

Tgt Ion:105 Resp: 69890

Ion Ratio Lower Upper

105 100

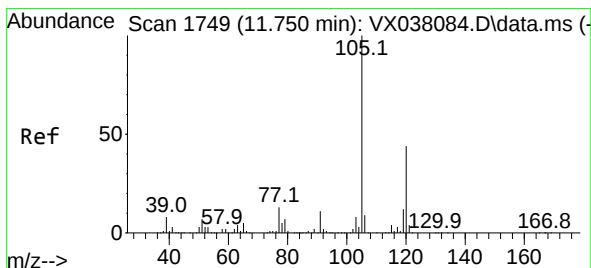
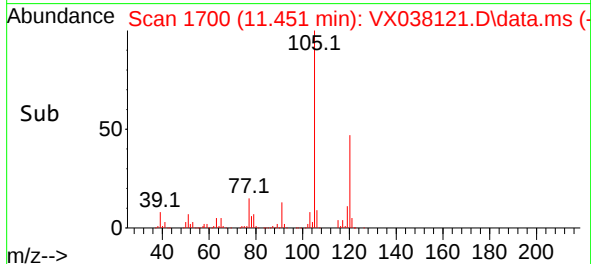
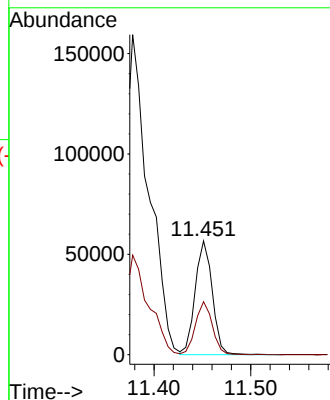
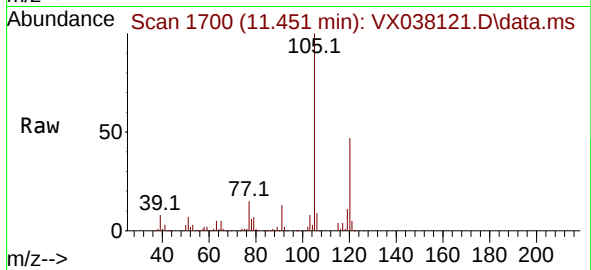
120 45.8 24.1 72.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#84

1,2,4-Trimethylbenzene

Concen: 51.784 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX038121.D

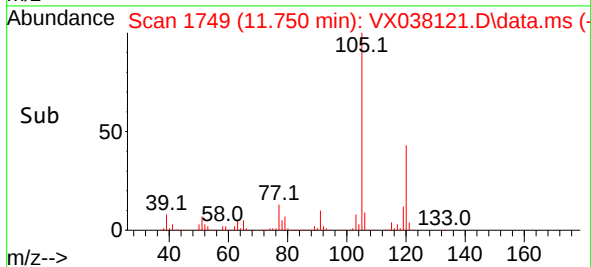
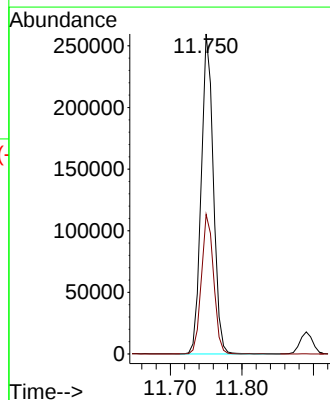
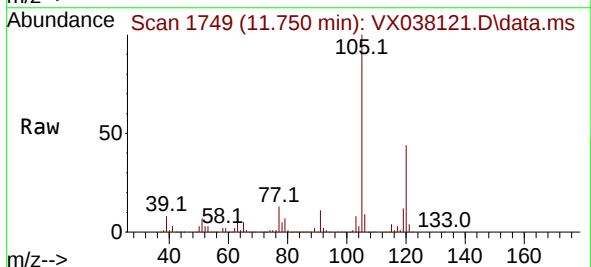
Acq: 06 Oct 2023 11:28

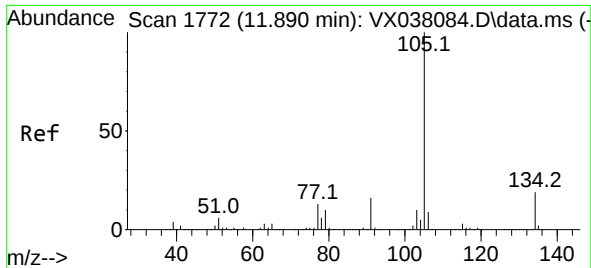
Tgt Ion:105 Resp: 304970

Ion Ratio Lower Upper

105 100

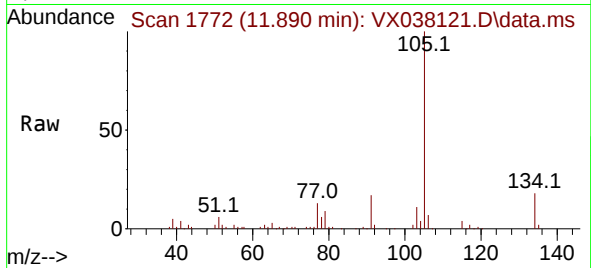
120 44.1 21.2 63.6





#85  
 sec-Butylbenzene  
 Concen: 2.939 ug/l  
 RT: 11.890 min Scan# 1772  
 Delta R.T. 0.000 min  
 Lab File: VX038121.D  
 Acq: 06 Oct 2023 11:28

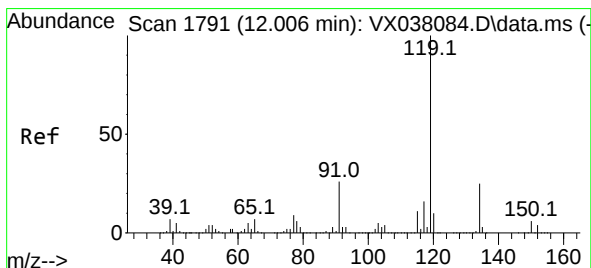
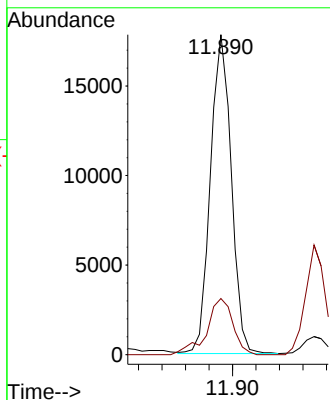
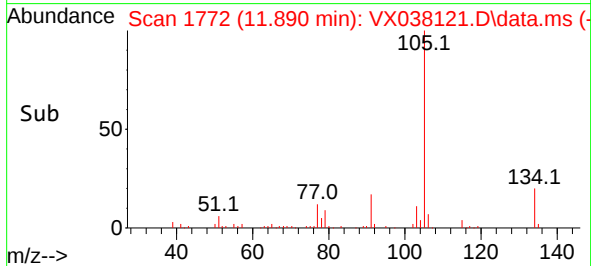
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 A455



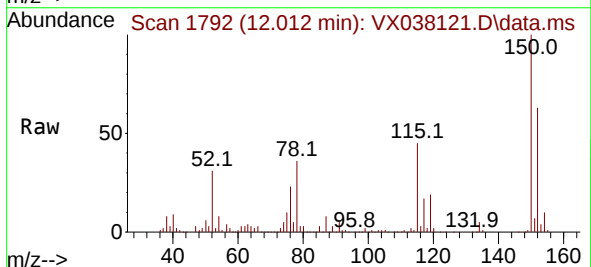
Tgt Ion:105 Resp: 2197  
 Ion Ratio Lower Upper  
 105 100  
 134 22.0 9.8 29.4

Manual Integrations  
 APPROVED

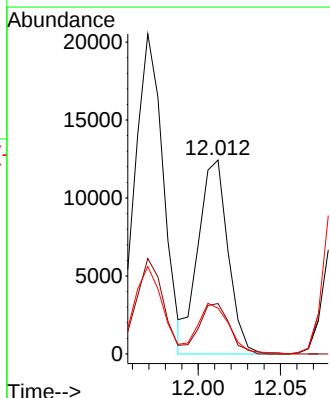
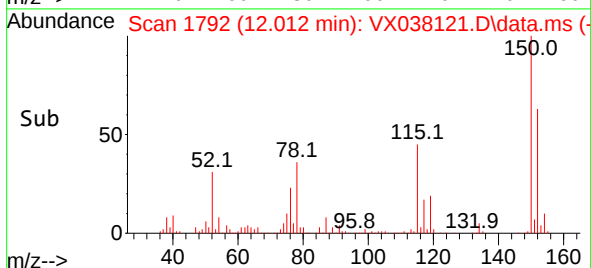
Reviewed By :John Carlone 10/06/2023  
 Supervised By :Mahesh Dadoda 10/09/2023

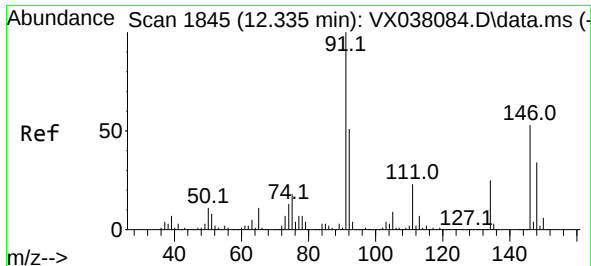


#86  
 p-Isopropyltoluene  
 Concen: 2.534 ug/l  
 RT: 12.012 min Scan# 1792  
 Delta R.T. 0.006 min  
 Lab File: VX038121.D  
 Acq: 06 Oct 2023 11:28



Tgt Ion:119 Resp: 15628  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 12.8 38.3  
 91 28.1 13.1 39.3





#89

n-Butylbenzene

Concen: 4.637 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.006 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

Instrument :

MSVOA\_X

ClientSampleId :

A455

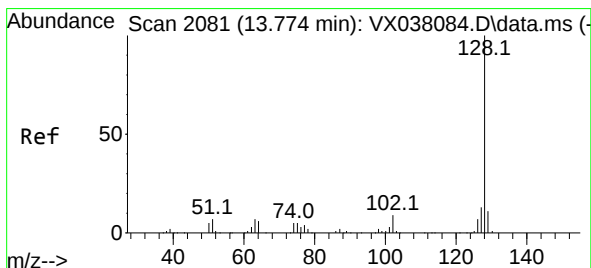
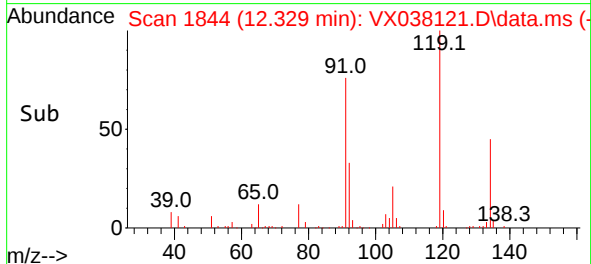
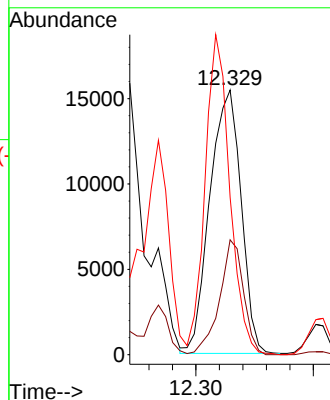
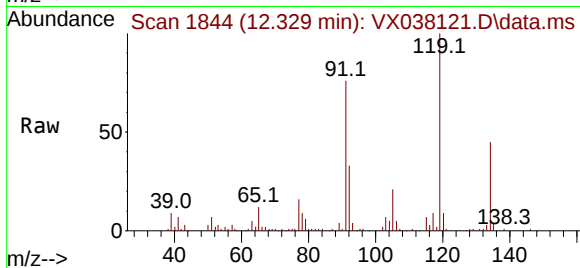
|             |                |
|-------------|----------------|
| Tgt Ion: 91 | Resp: 2848     |
| Ion Ratio   | Lower Upper    |
| 91          | 100            |
| 92          | 33.6 27.4 82.0 |
| 134         | 95.7 12.6 37.8 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/06/2023

Supervised By :Mahesh Dadoda 10/09/2023



#95

Naphthalene

Concen: 8.618 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX038121.D

Acq: 06 Oct 2023 11:28

|             |                |
|-------------|----------------|
| Tgt Ion:128 | Resp: 64957    |
| Ion Ratio   | Lower Upper    |
| 128         | 100            |
| 127         | 13.5 10.3 15.5 |
| 129         | 12.4 8.8 13.2  |

