

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060523\  
 Data File : VX036010.D  
 Acq On : 05 Jun 2023 18:03  
 Operator : JC/MD  
 Sample : 03019-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MH-289

Quant Time: Jun 06 06:47:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 31 12:50:30 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 5.556          | 168  | 241177     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.763          | 114  | 389703     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.055         | 117  | 342994     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024         | 152  | 168523     | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.952          | 65   | 163686     | 41.795  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 78 - 117 |      | Recovery = | 83.600% |        |          |
| 35) Dibromofluoromethane    | 5.385          | 113  | 116720     | 44.531  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 89.060% |        |          |
| 50) Toluene-d8              | 8.647          | 98   | 446075     | 47.419  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 92 - 112 |      | Recovery = | 94.840% |        |          |
| 62) 4-Bromofluorobenzene    | 11.079         | 95   | 181662     | 48.919  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 97.840% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 16) Acetone                 | 2.392          | 43   | 13901      | 8.604   | ug/l   | 96       |
| 25) 2-Butanone              | 4.580          | 43   | 8489       | 3.671   | ug/l   | 100      |
| 29) Tetrahydrofuran         | 5.019          | 42   | 12664      | 8.498   | ug/l   | 99       |
| 31) Cyclohexane             | 5.470          | 56   | 181268     | 44.206  | ug/l   | 97       |
| 39) Methylcyclohexane       | 7.378          | 83   | 83140      | 22.801  | ug/l   | 95       |
| 40) Benzene                 | 6.037          | 78   | 158633     | 15.124  | ug/l   | 99       |
| 52) Toluene                 | 8.720          | 92   | 36199      | 5.489   | ug/l   | 98       |
| 67) Ethyl Benzene           | 10.195         | 91   | 47730      | 3.875   | ug/l   | 97       |
| 68) m/p-Xylenes             | 10.299         | 106  | 111823     | 23.930  | ug/l   | 96       |
| 69) o-Xylene                | 10.640         | 106  | 9328       | 1.986   | ug/l   | 99       |
| 73) Isopropylbenzene        | 10.963         | 105  | 11238      | 0.918   | ug/l   | 97       |
| 78) n-propylbenzene         | 11.305         | 91   | 14409      | 1.042   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.451         | 105  | 14457m     | 1.400   | ug/l   |          |
| 84) 1,2,4-Trimethylbenzene  | 11.750         | 105  | 602768     | 56.885  | ug/l   | 98       |
| 85) sec-Butylbenzene        | 11.890         | 105  | 6916m      | 0.591   | ug/l   |          |
| 86) p-Isopropyltoluene      | 12.012         | 119  | 10238      | 1.023   | ug/l # | 72       |
| -----                       |                |      |            |         |        |          |

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

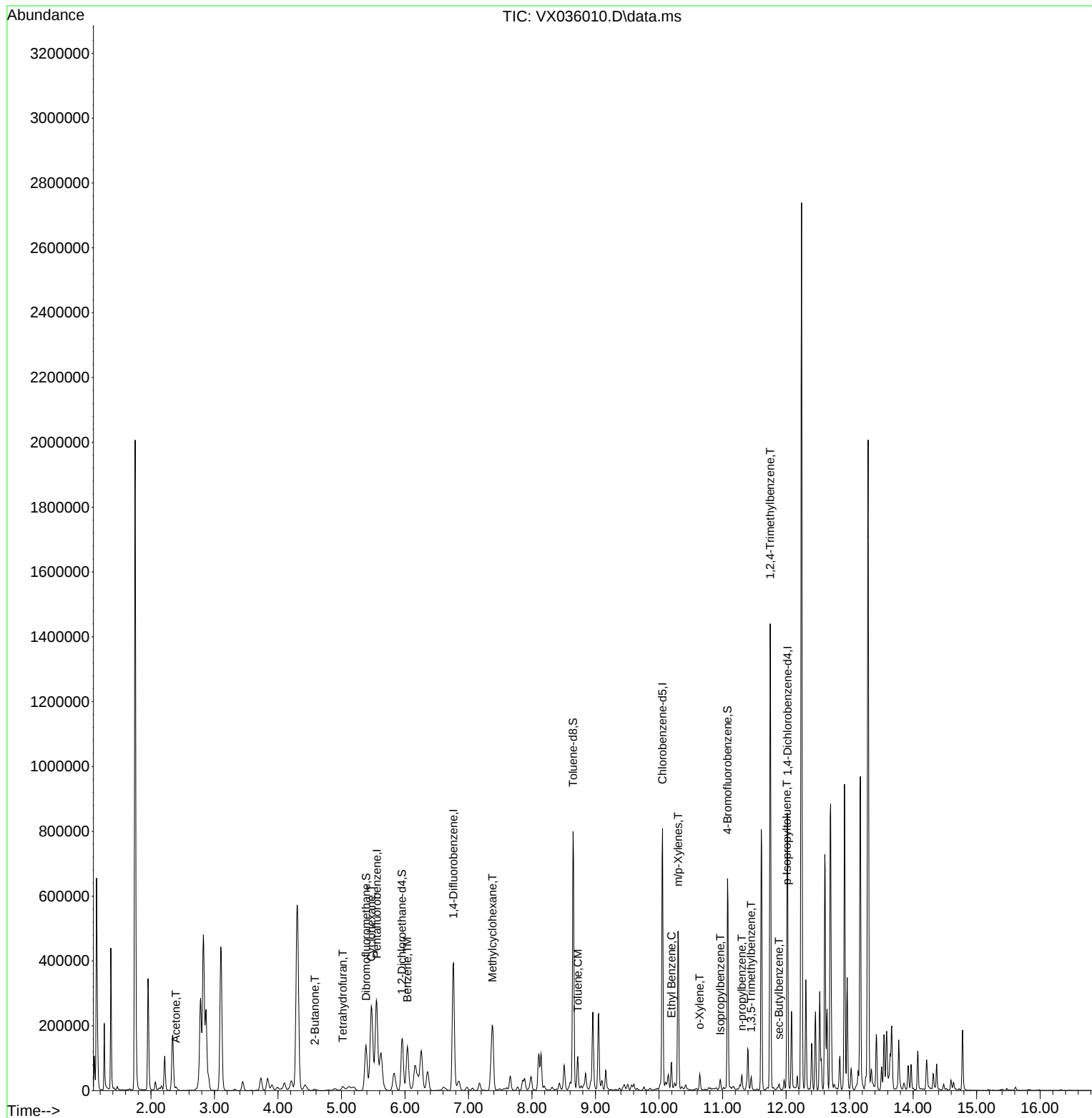
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Data File : VX036010.D  
Acq On : 05 Jun 2023 18:03  
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ALS Vial : 21 Sample Multiplier: 1

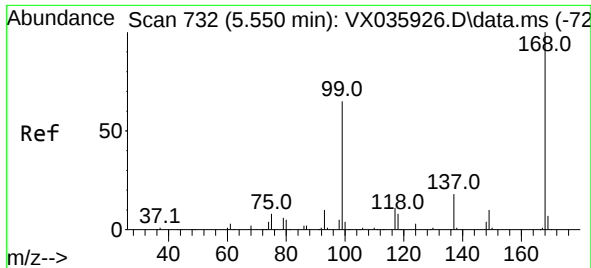
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289

Manual Integrations  
APPROVED

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Supervised By : Mahesh Dadoda 06/06/2023

Quant Time: Jun 06 06:47:14 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053123W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 31 12:50:30 2023  
Response via : Initial Calibration





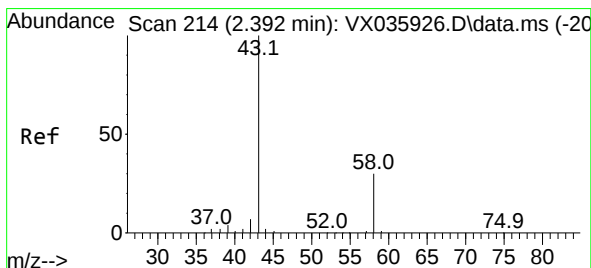
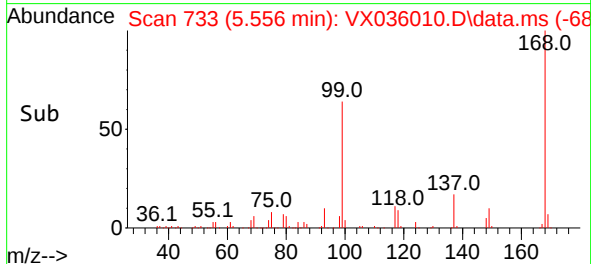
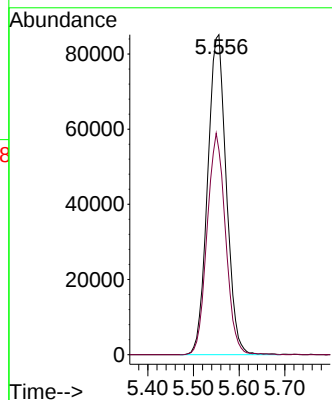
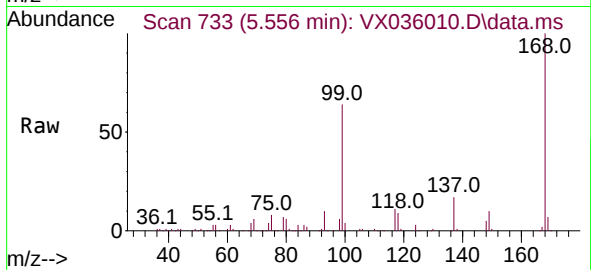
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 732  
Delta R.T. 0.007 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289

Tgt Ion:168 Resp: 24117  
Ion Ratio Lower Upper  
168 100  
99 64.0 57.0 85.6

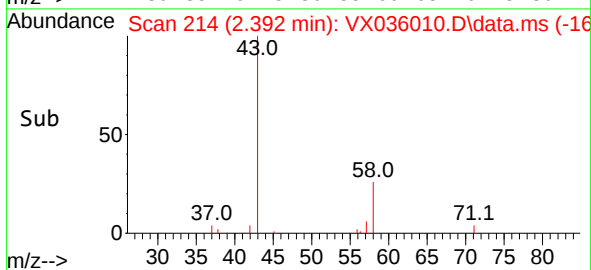
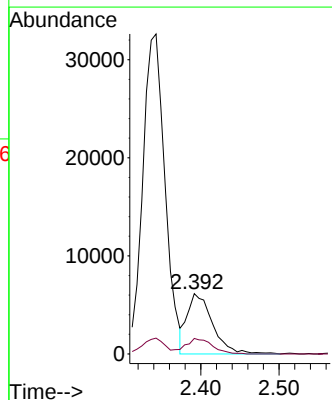
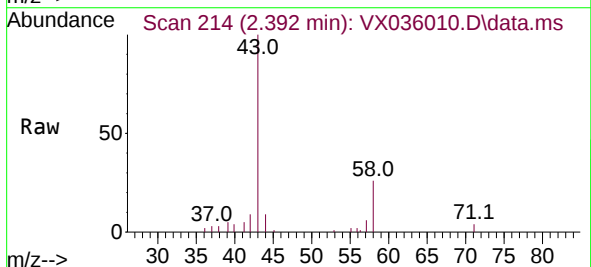
Manual Integrations  
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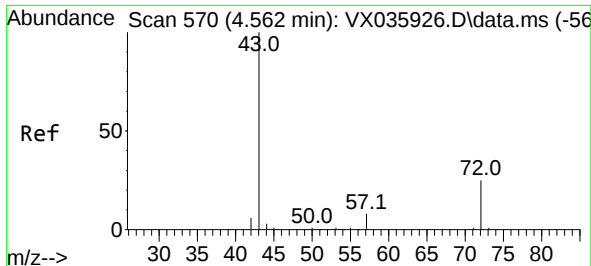
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023



#16  
Acetone  
Concen: 8.604 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.001 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

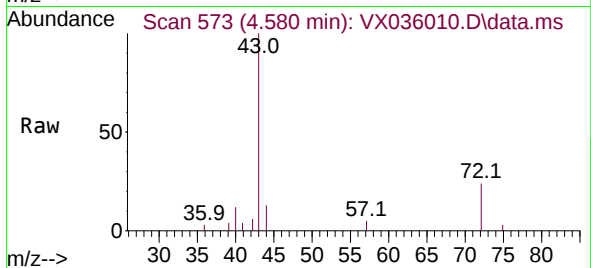
Tgt Ion: 43 Resp: 13901  
Ion Ratio Lower Upper  
43 100  
58 25.7 22.2 33.2





#25  
2-Butanone  
Concen: 3.671 ug/l  
RT: 4.580 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

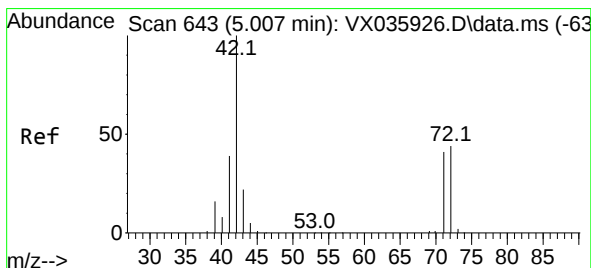
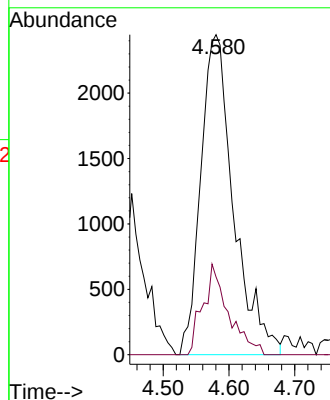
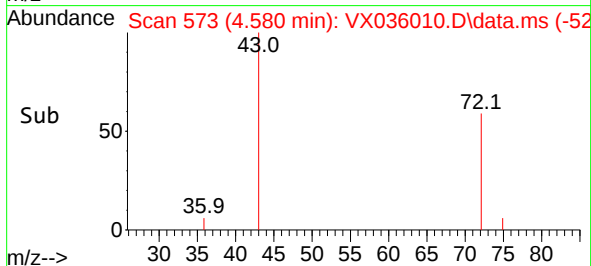
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289



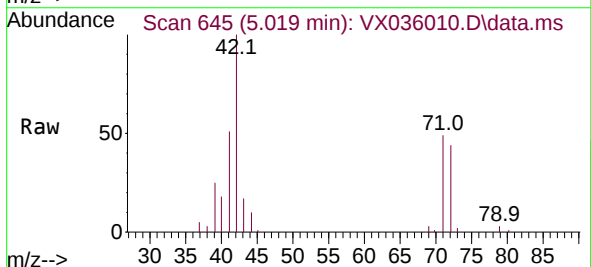
Tgt Ion: 43 Resp: 8489  
Ion Ratio Lower Upper  
43 100  
72 24.3 19.4 29.2

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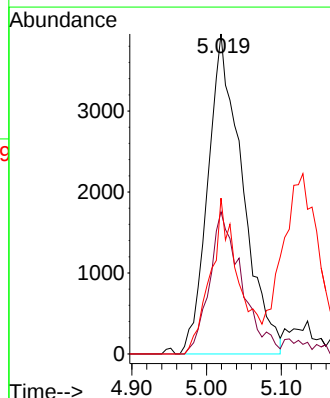
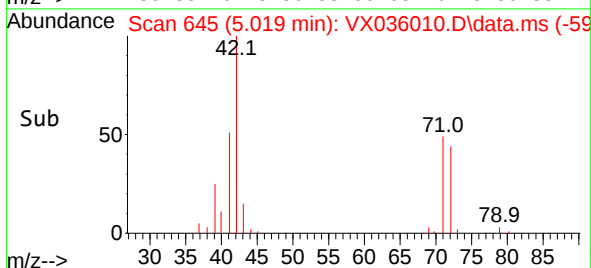
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023

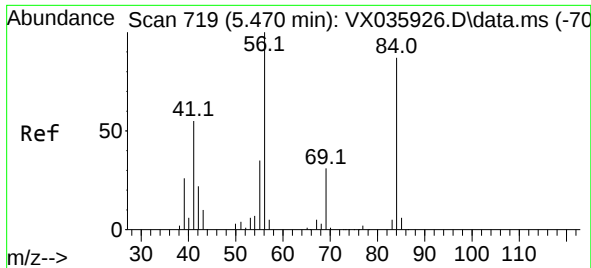


#29  
Tetrahydrofuran  
Concen: 8.498 ug/l  
RT: 5.019 min Scan# 645  
Delta R.T. 0.006 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03



Tgt Ion: 42 Resp: 12664  
Ion Ratio Lower Upper  
42 100  
72 41.5 34.2 51.2  
71 39.9 31.8 47.8





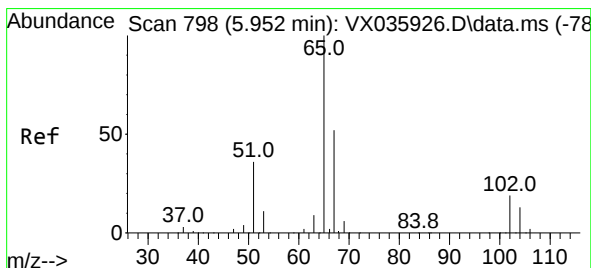
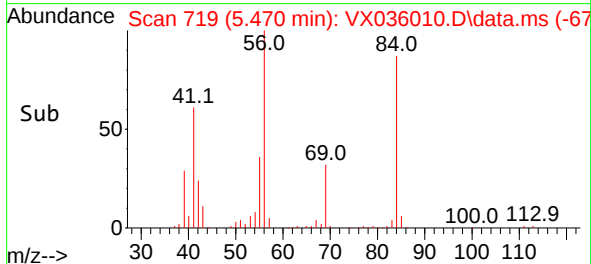
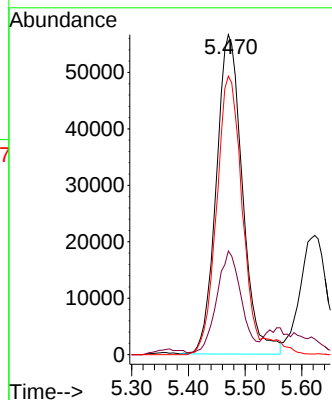
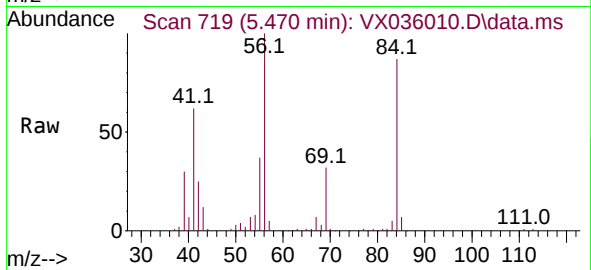
#31  
Cyclohexane  
Concen: 44.206 ug/l  
RT: 5.470 min Scan# 719  
Delta R.T. 0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289

Tgt Ion: 56 Resp: 181268  
Ion Ratio Lower Upper  
56 100  
69 31.2 25.9 38.9  
84 87.3 67.6 101.4

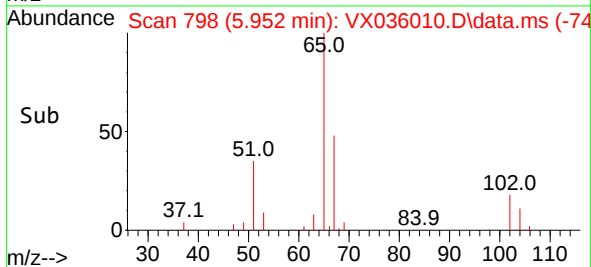
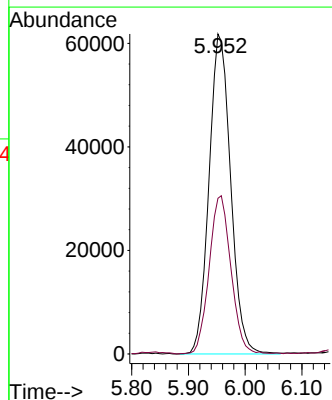
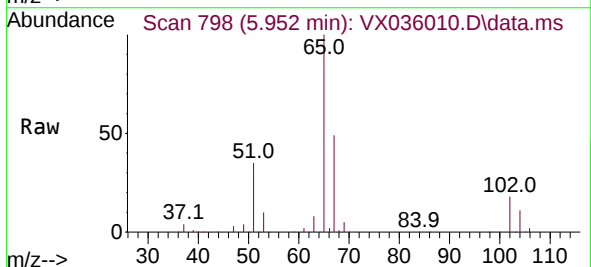
Manual Integrations  
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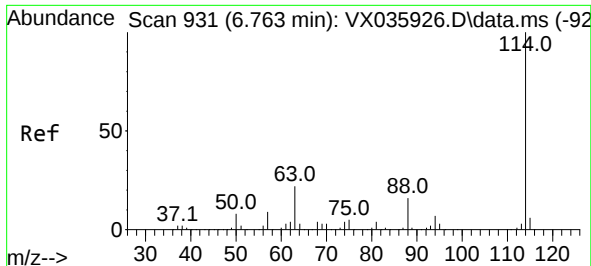
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023



#33  
1,2-Dichloroethane-d4  
Concen: 41.795 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Tgt Ion: 65 Resp: 163686  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 99.6





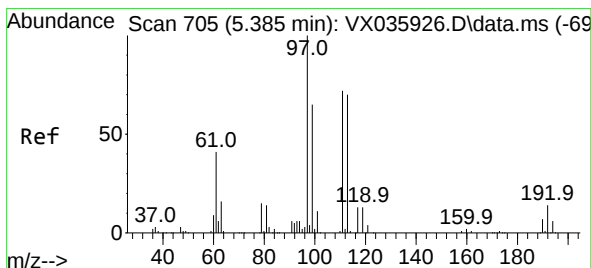
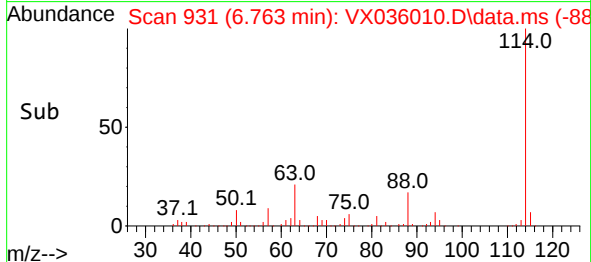
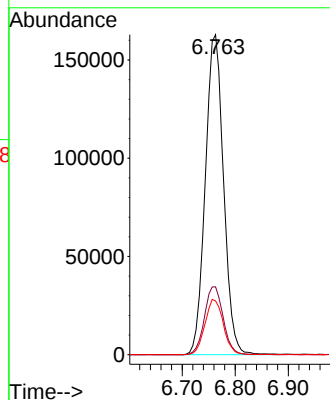
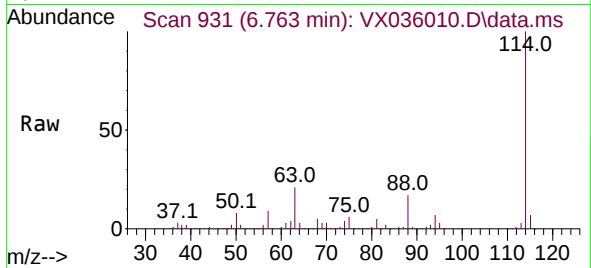
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289

Tgt Ion:114 Resp: 38970  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 46.0  
88 16.8 0.0 35.2

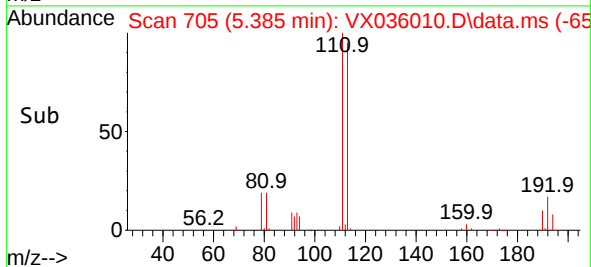
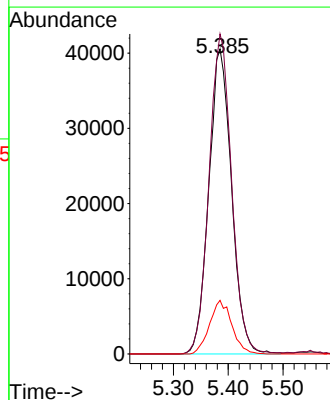
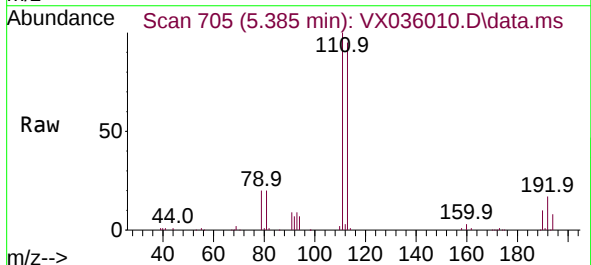
Manual Integrations  
APPROVED

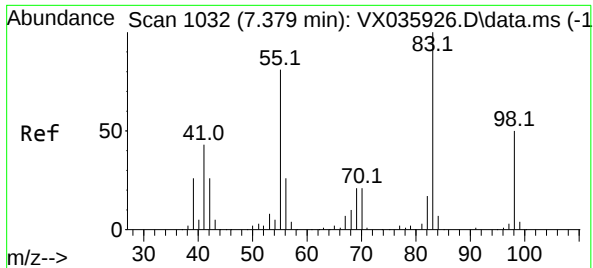
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023



#35  
Dibromofluoromethane  
Concen: 44.531 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Tgt Ion:113 Resp: 116720  
Ion Ratio Lower Upper  
113 100  
111 104.1 81.7 122.5  
192 17.2 13.5 20.3





#39

Methylcyclohexane

Concen: 22.801 ug/l

RT: 7.378 min Scan# 1032

Delta R.T. 0.000 min

Lab File: VX036010.D

Acq: 05 Jun 2023 18:03

Instrument :

MSVOA\_X

ClientSampleId :

MH-289

Tgt Ion: 83 Resp: 83140

Ion Ratio Lower Upper

83 100

55 86.8 64.9 97.3

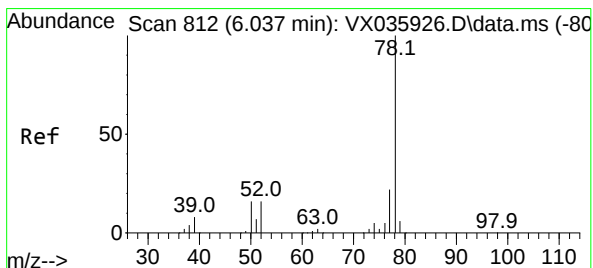
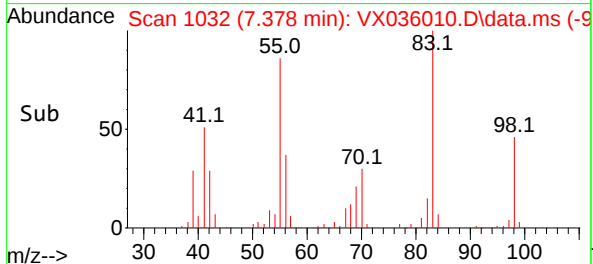
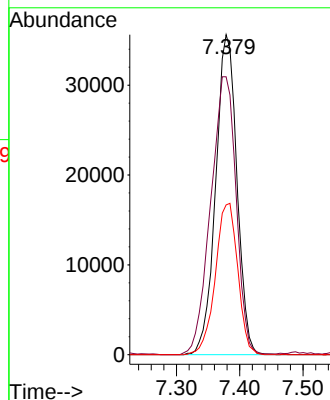
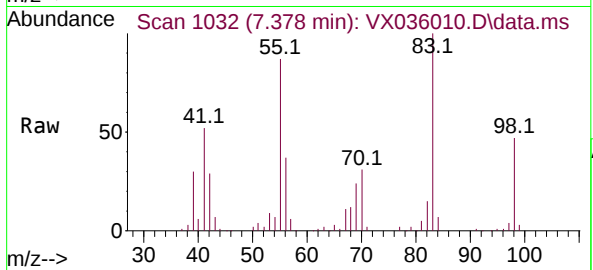
98 46.8 38.1 57.1

Manual Integrations

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Reviewed By :John Carlone 06/06/2023

Supervised By :Mahesh Dadoda 06/06/2023



#40

Benzene

Concen: 15.124 ug/l

RT: 6.037 min Scan# 812

Delta R.T. 0.000 min

Lab File: VX036010.D

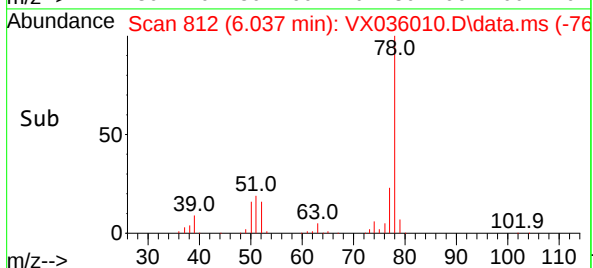
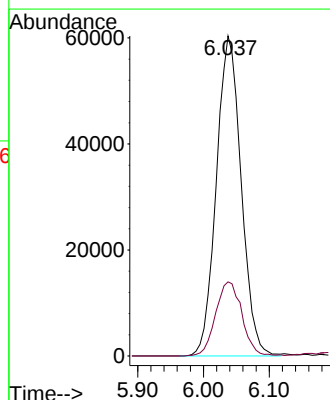
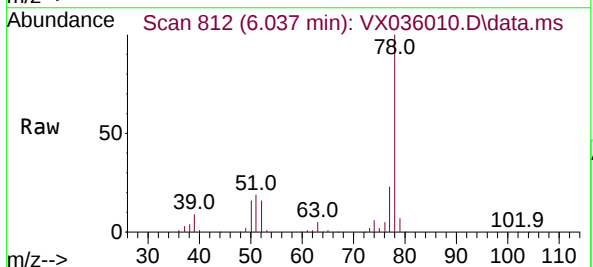
Acq: 05 Jun 2023 18:03

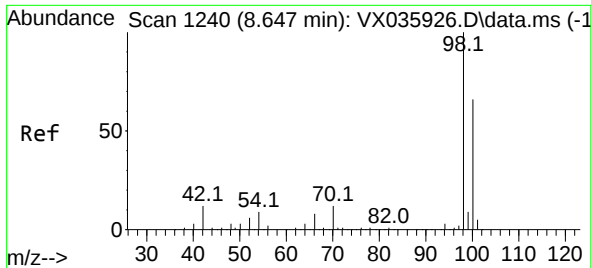
Tgt Ion: 78 Resp: 158633

Ion Ratio Lower Upper

78 100

77 23.2 19.0 28.6





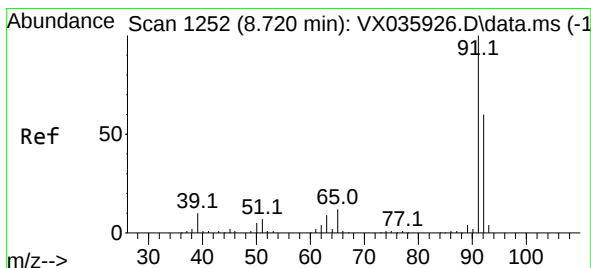
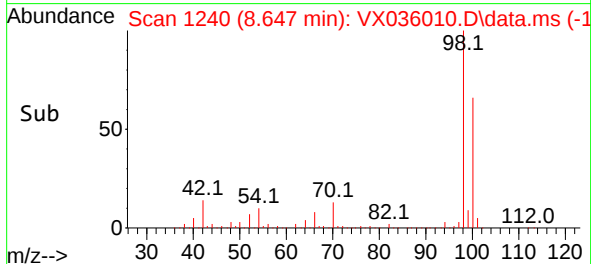
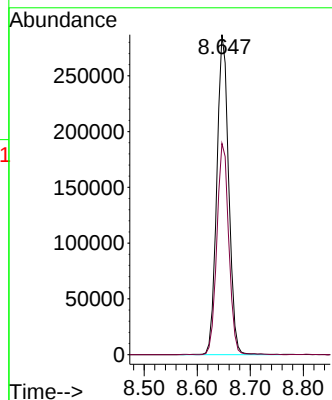
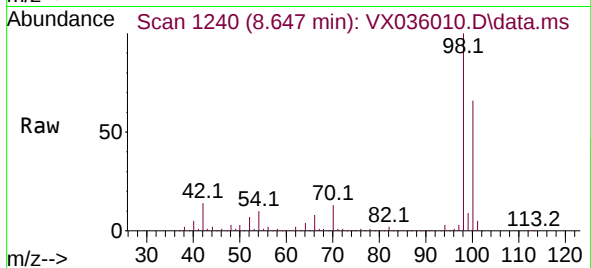
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Toluene-d8  
Concen: 47.419 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.001 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289

Tgt Ion: 98 Resp: 446075  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.4 80.0

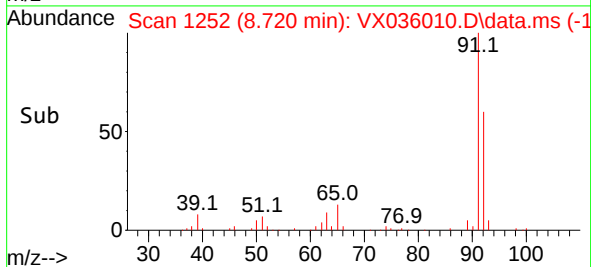
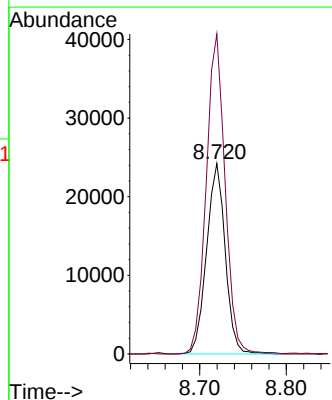
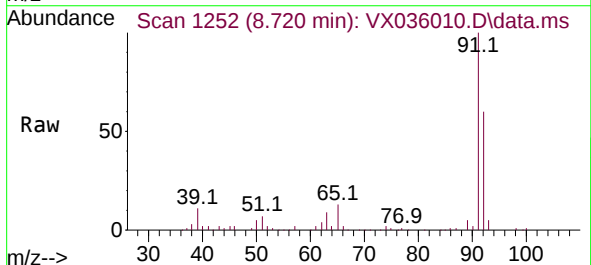
Manual Integrations  
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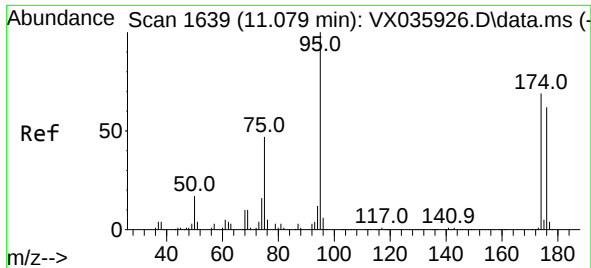
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023



#52  
Toluene  
Concen: 5.489 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

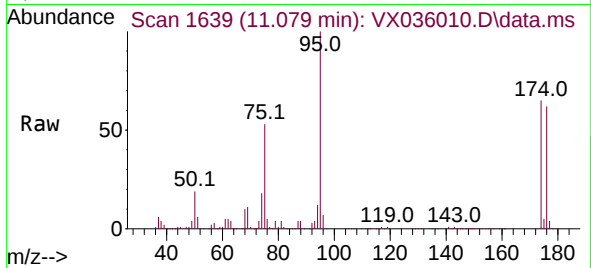
Tgt Ion: 92 Resp: 36199  
Ion Ratio Lower Upper  
92 100  
91 170.2 133.5 200.3





#62  
4-Bromofluorobenzene  
Concen: 48.919 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

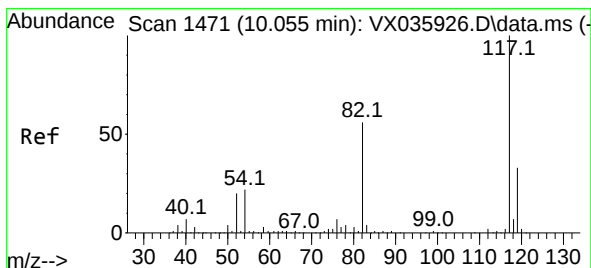
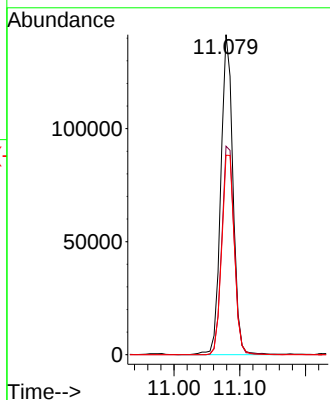
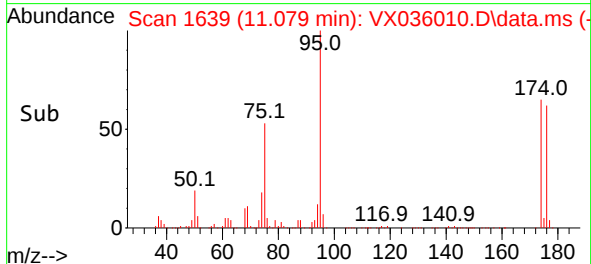
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289



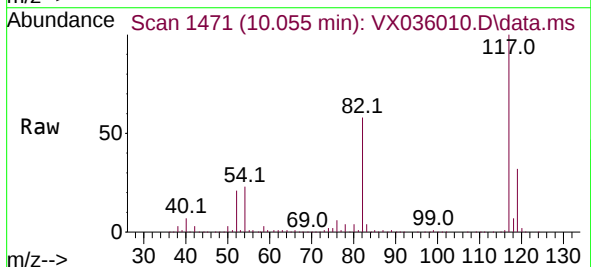
Tgt Ion: 95 Resp: 181662  
Ion Ratio Lower Upper  
95 100  
174 66.8 0.0 132.6  
176 64.6 0.0 128.0

Manual Integrations  
APPROVED

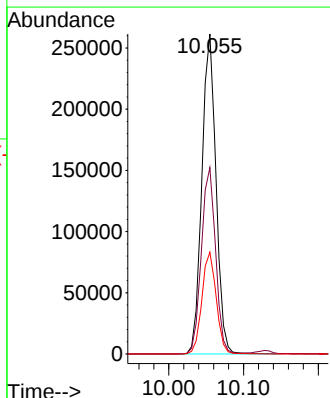
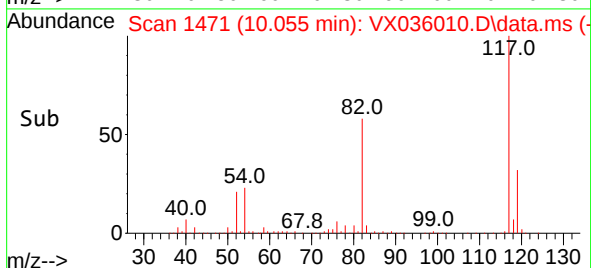
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023

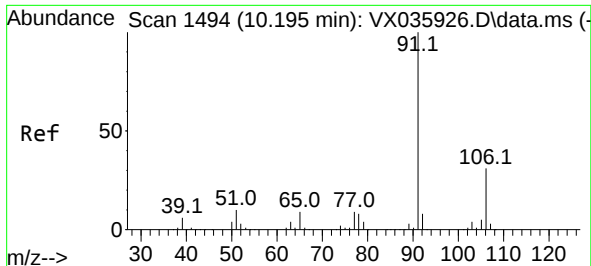


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03



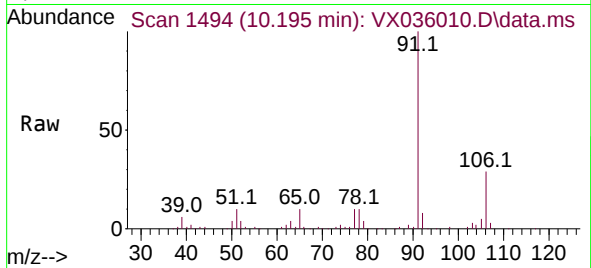
Tgt Ion:117 Resp: 342994  
Ion Ratio Lower Upper  
117 100  
82 58.2 46.6 69.8  
119 31.8 25.4 38.2





#67  
Ethyl Benzene  
Concen: 3.875 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

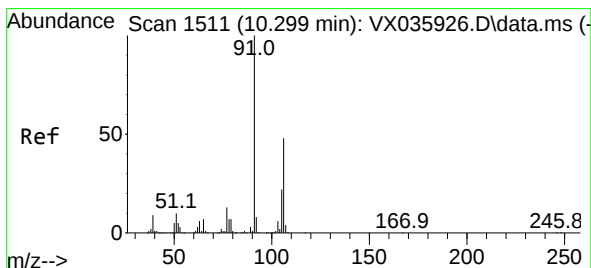
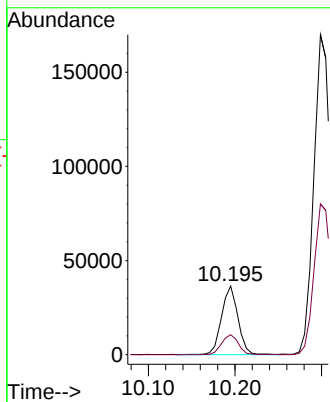
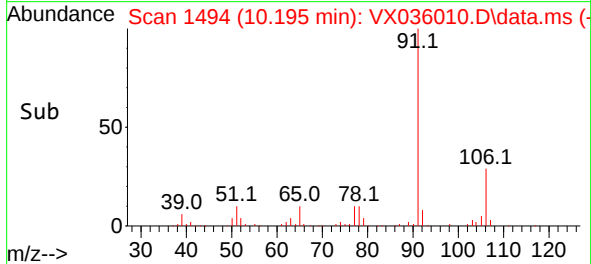
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289



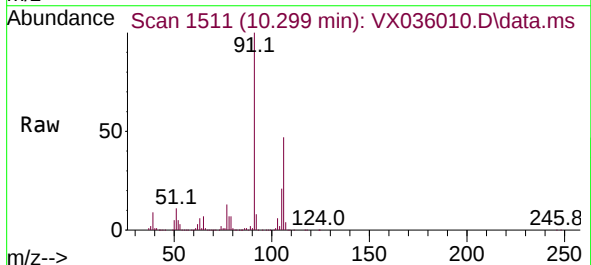
Tgt Ion: 91 Resp: 47730  
Ion Ratio Lower Upper  
91 100  
106 29.1 24.6 37.0

Manual Integrations  
APPROVED

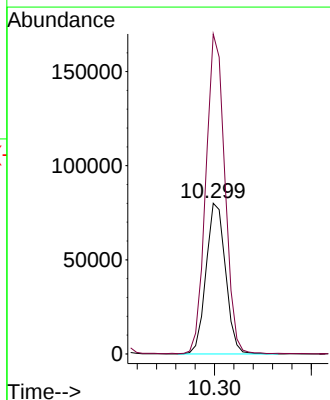
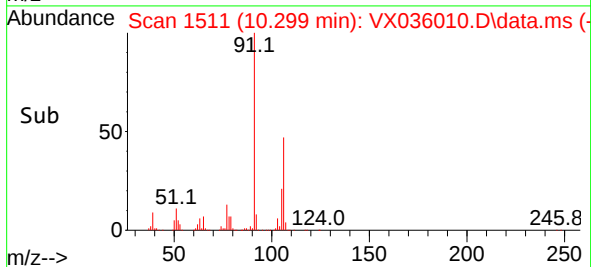
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023

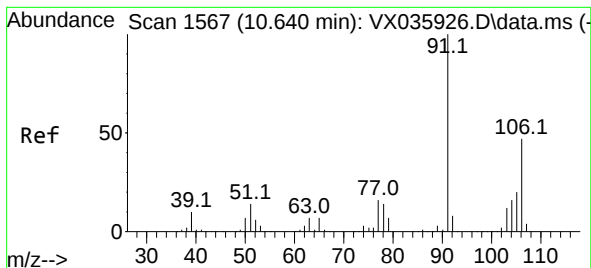


#68  
m/p-Xylenes  
Concen: 23.930 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03



Tgt Ion:106 Resp: 111823  
Ion Ratio Lower Upper  
106 100  
91 206.8 169.8 254.8





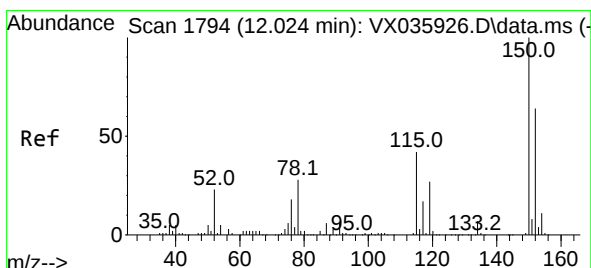
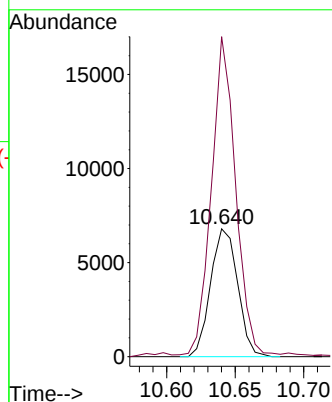
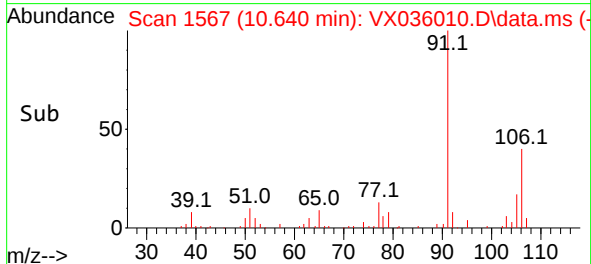
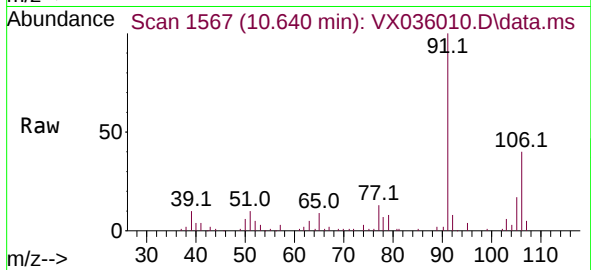
#69  
o-Xylene  
Concen: 1.986 ug/l  
RT: 10.640 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289

Tgt Ion:106 Resp: 9328  
Ion Ratio Lower Upper  
106 100  
91 223.3 112.5 337.4

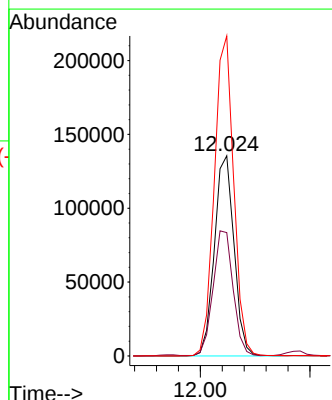
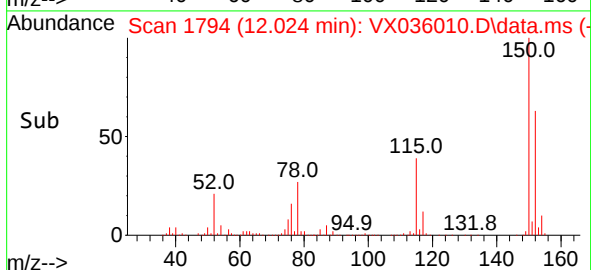
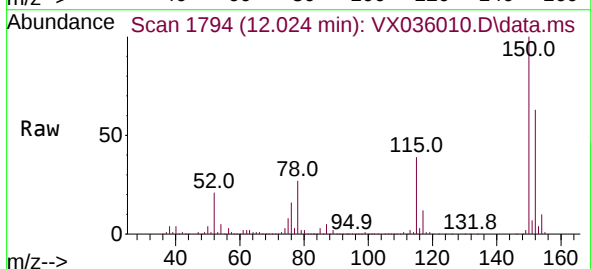
Manual Integrations  
APPROVED

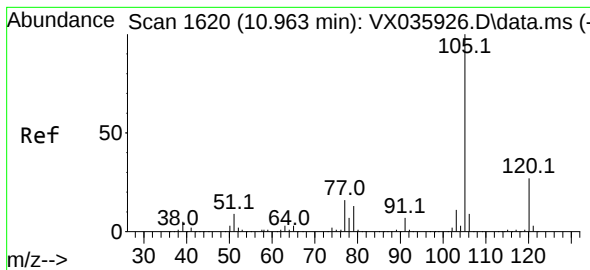
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

Tgt Ion:152 Resp: 168523  
Ion Ratio Lower Upper  
152 100  
115 63.2 45.5 136.5  
150 157.8 0.0 345.2





#73

Isopropylbenzene

Concen: 0.918 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX036010.D

Acq: 05 Jun 2023 18:03

Instrument :

MSVOA\_X

ClientSampleId :

MH-289

Tgt Ion:105 Resp: 11238

Ion Ratio Lower Upper

105 100

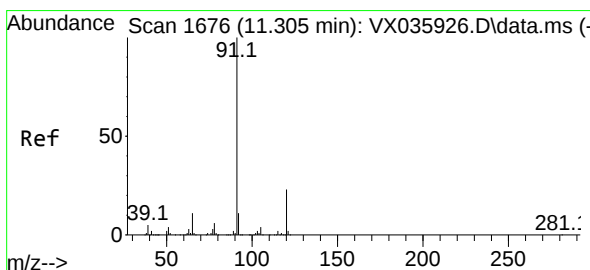
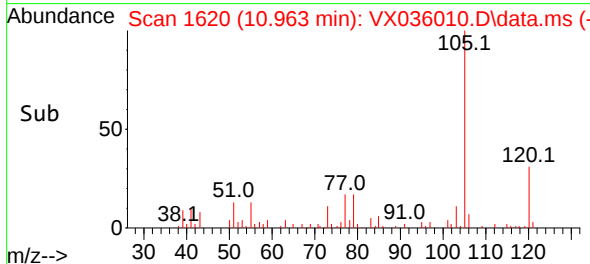
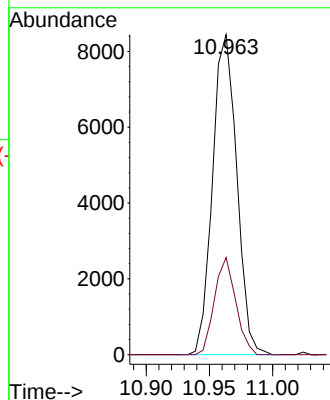
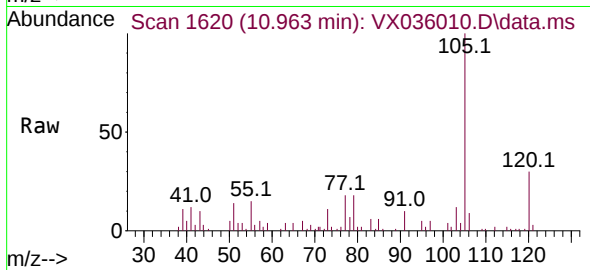
120 26.7 12.7 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2023

Supervised By :Mahesh Dadoda 06/06/2023



#78

n-propylbenzene

Concen: 1.042 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX036010.D

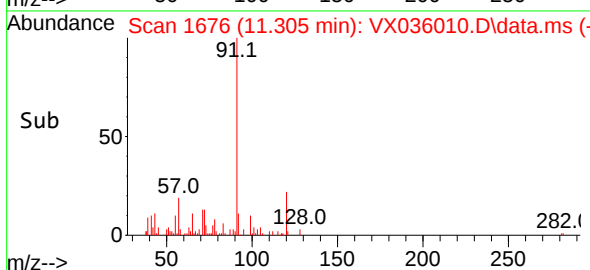
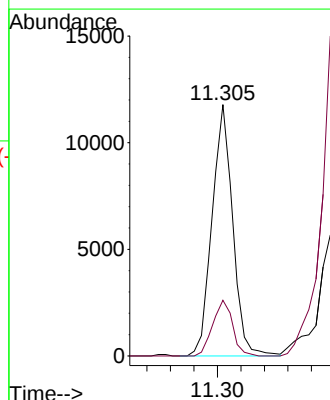
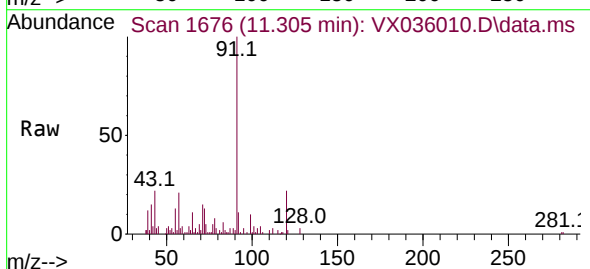
Acq: 05 Jun 2023 18:03

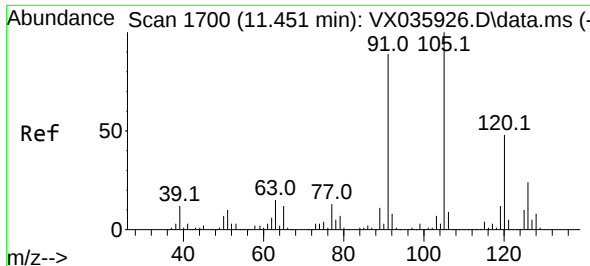
Tgt Ion: 91 Resp: 14409

Ion Ratio Lower Upper

91 100

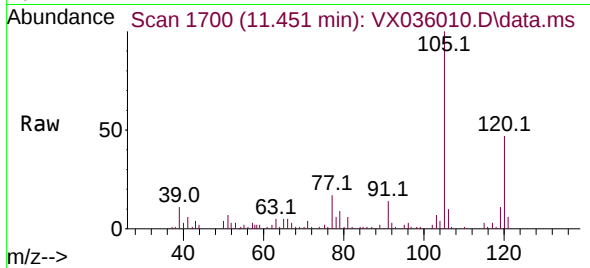
120 21.3 10.9 32.9





#80  
1,3,5-Trimethylbenzene  
Concen: 1.400 ug/l m  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03

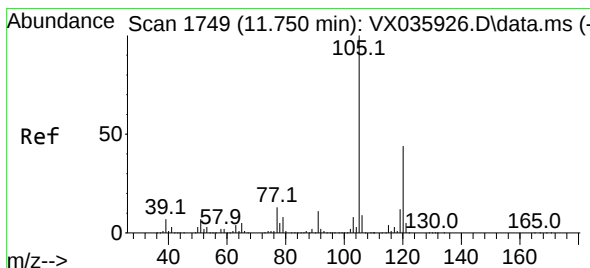
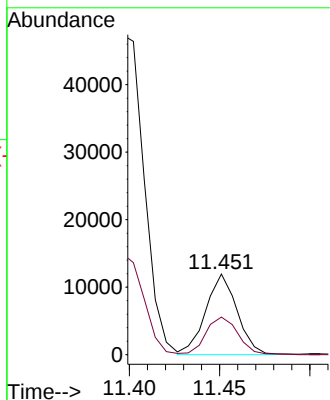
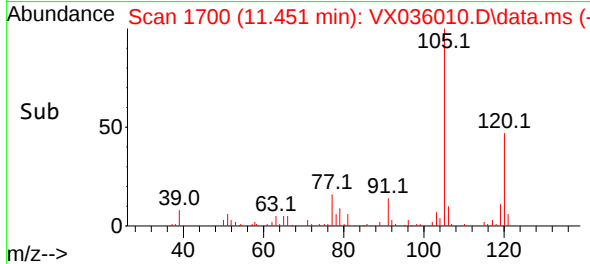
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-289



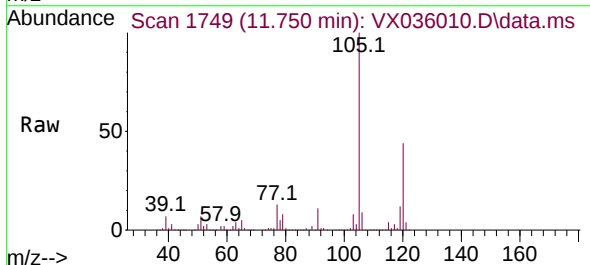
Tgt Ion:105 Resp: 1445  
Ion Ratio Lower Upper  
105 100  
120 140.3 23.8 71.4

Manual Integrations  
APPROVED

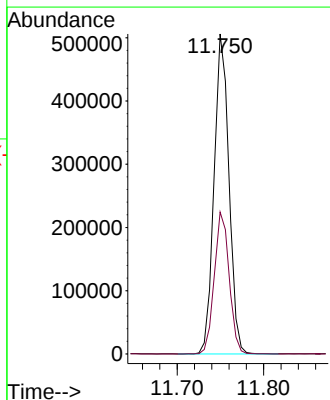
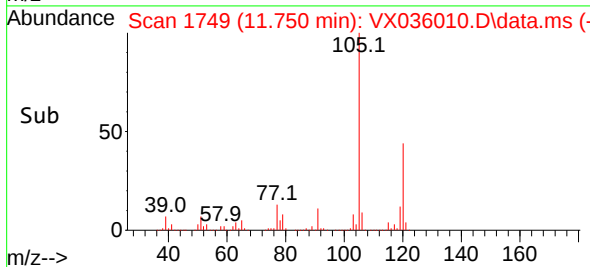
Reviewed By :John Carlone 06/06/2023  
Supervised By :Mahesh Dadoda 06/06/2023

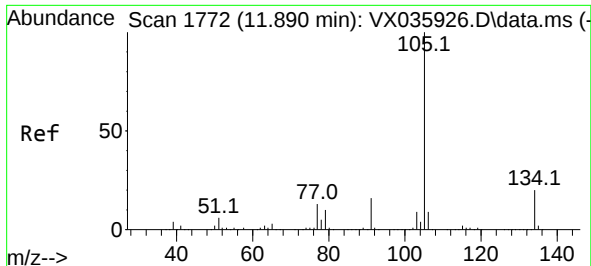


#84  
1,2,4-Trimethylbenzene  
Concen: 56.885 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX036010.D  
Acq: 05 Jun 2023 18:03



Tgt Ion:105 Resp: 602768  
Ion Ratio Lower Upper  
105 100  
120 44.5 21.6 64.8





#85

sec-Butylbenzene

Concen: 0.591 ug/l m

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX036010.D

Acq: 05 Jun 2023 18:03

Instrument :

MSVOA\_X

ClientSampleId :

MH-289

Tgt Ion:105 Resp: 6910

Ion Ratio Lower Upper

105 100

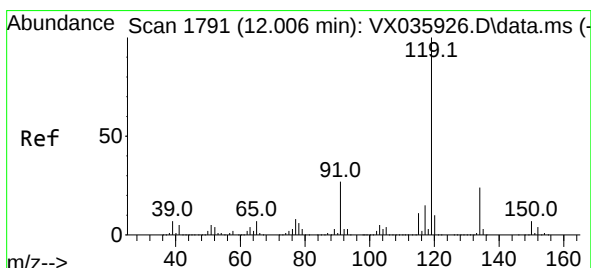
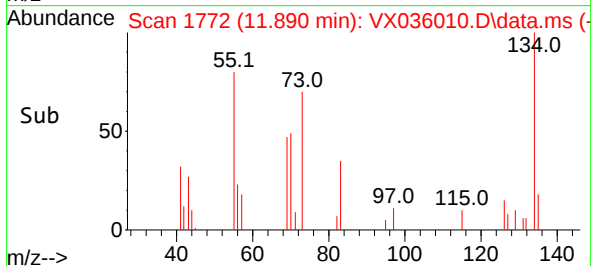
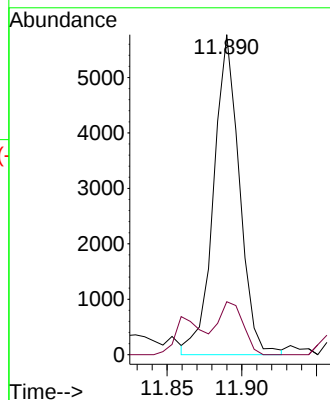
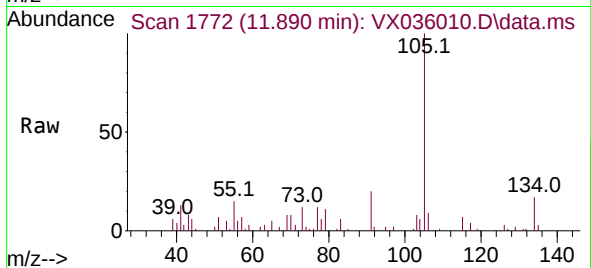
134 0.0 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2023

Supervised By :Mahesh Dadoda 06/06/2023



#86

p-Isopropyltoluene

Concen: 1.023 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VX036010.D

Acq: 05 Jun 2023 18:03

Tgt Ion:119 Resp: 10238

Ion Ratio Lower Upper

119 100

134 27.0 12.7 38.1

91 0.0 13.5 40.5

