

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011123\  
 Data File : VY012158.D  
 Acq On : 11 Jan 2023 13:15  
 Operator : KP/MD  
 Sample : 01061-04  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SLUDGE-7

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 01/12/2023  
 Supervised By :Mahesh Dadoda 01/12/2023

Quant Time: Jan 12 05:49:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010623S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 07 01:46:48 2023  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 7.789          | 168  | 151140     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691          | 114  | 246744     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.490         | 117  | 206206     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428         | 152  | 74333      | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.143          | 65   | 75352      | 44.369  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = | 88.740% |        |          |
| 35) Dibromofluoromethane    | 7.716          | 113  | 70407      | 43.413  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = | 86.820% |        |          |
| 50) Toluene-d8              | 10.179         | 98   | 281451     | 43.968  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = | 87.940% |        |          |
| 62) 4-Bromofluorobenzene    | 12.483         | 95   | 81229      | 36.303  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = | 72.600% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 16) Acetone                 | 3.954          | 43   | 51766      | 129.575 | ug/l   | 97       |
| 20) Methylene Chloride      | 4.716          | 84   | 28039      | 12.118  | ug/l   | 93       |
| 25) 2-Butanone              | 6.984          | 43   | 7128       | 13.523  | ug/l   | 98       |
| 30) Chloroform              | 7.509          | 83   | 212827     | 68.522  | ug/l   | 100      |
| 31) Cyclohexane             | 7.777          | 56   | 10390      | 1.436   | ug/l # | 77       |
| 39) Methylcyclohexane       | 9.185          | 83   | 7967       | 2.711   | ug/l   | 87       |
| 40) Benzene                 | 8.161          | 78   | 8035       | 1.121   | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone    | 10.069         | 43   | 14476      | 12.322  | ug/l   | 96       |
| 52) Toluene                 | 10.246         | 92   | 194606     | 41.005  | ug/l   | 100      |
| 67) Ethyl Benzene           | 11.593         | 91   | 96336      | 11.445  | ug/l   | 99       |
| 68) m/p-Xylenes             | 11.703         | 106  | 175757     | 53.235  | ug/l   | 98       |
| 69) o-Xylene                | 12.032         | 106  | 88652      | 28.201  | ug/l   | 97       |
| 73) Isopropylbenzene        | 12.331         | 105  | 18159      | 3.087   | ug/l   | 89       |
| 78) n-propylbenzene         | 12.672         | 91   | 23073      | 3.360   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.813         | 105  | 36520      | 7.239   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.117         | 105  | 115435     | 23.116  | ug/l   | 99       |
| 85) sec-Butylbenzene        | 13.233         | 105  | 14151      | 2.227   | ug/l   | 84       |
| 86) p-Isopropyltoluene      | 13.367         | 119  | 147302     | 26.762  | ug/l # | 76       |
| 89) n-Butylbenzene          | 13.697         | 91   | 7619m      | 1.597   | ug/l   |          |
| 95) Naphthalene             | 15.233         | 128  | 10741      | 3.475   | ug/l # | 91       |
| -----                       |                |      |            |         |        |          |

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

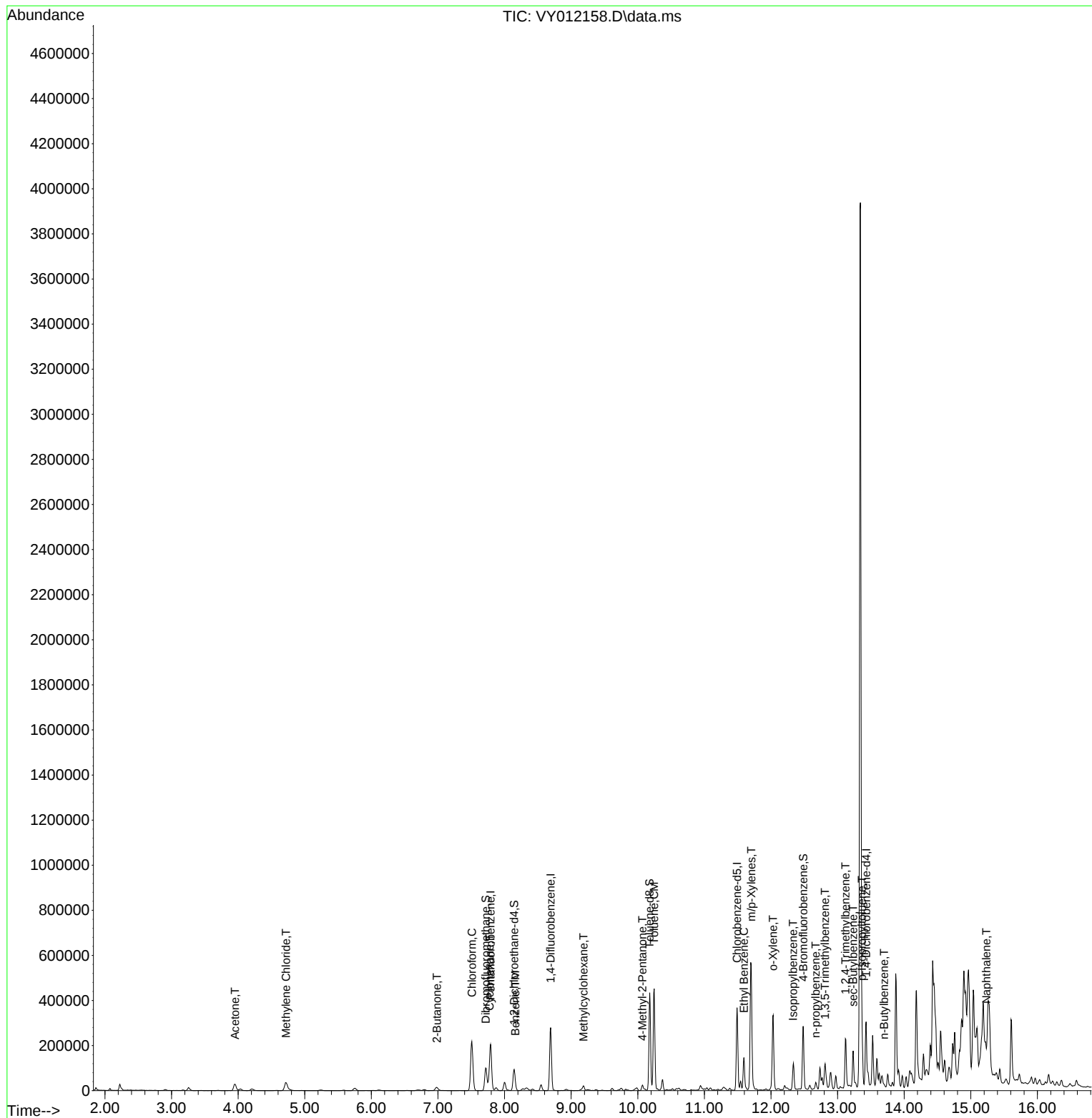
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011123\  
Data File : VY012158.D  
Acq On : 11 Jan 2023 13:15  
Operator : KP/MD  
Sample : 01061-04  
Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

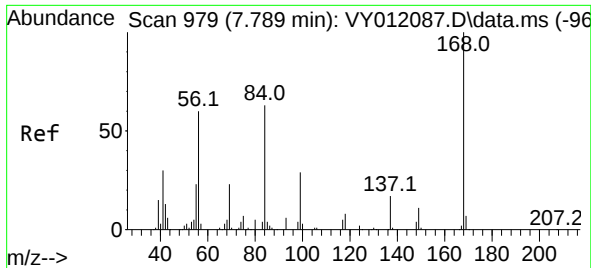
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7

Quant Time: Jan 12 05:49:06 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010623S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 07 01:46:48 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

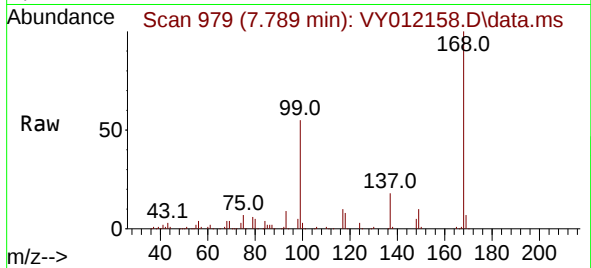
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

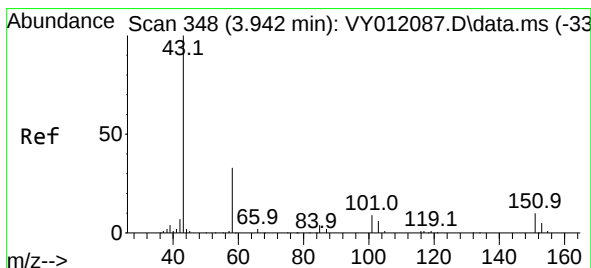
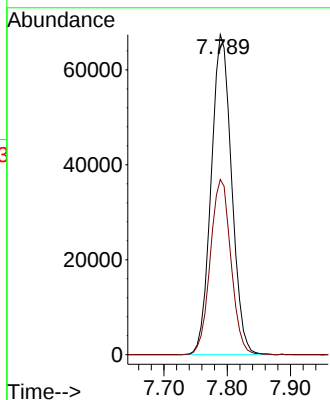
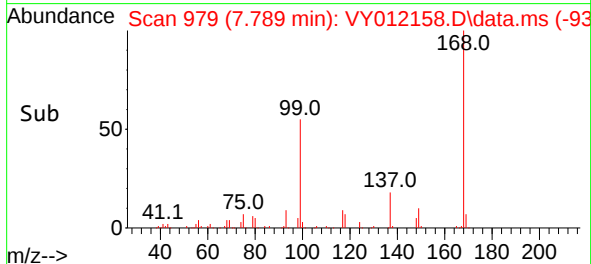
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



Tgt Ion:168 Resp: 151140  
Ion Ratio Lower Upper  
168 100  
99 54.7 44.0 66.0

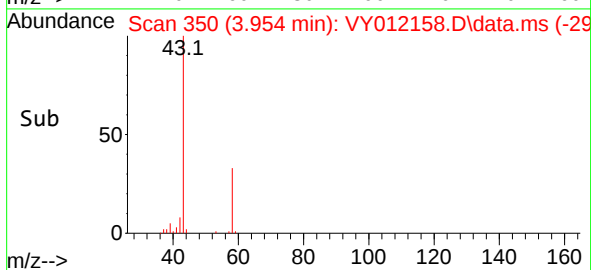
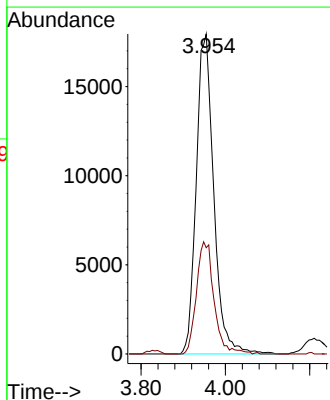
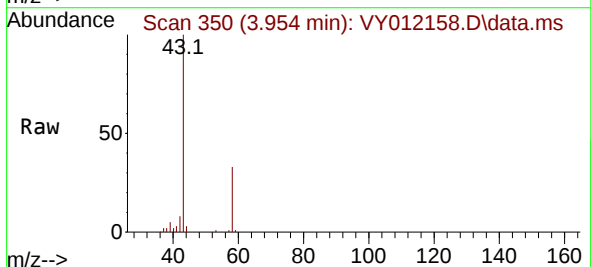
Manual Integrations  
APPROVED

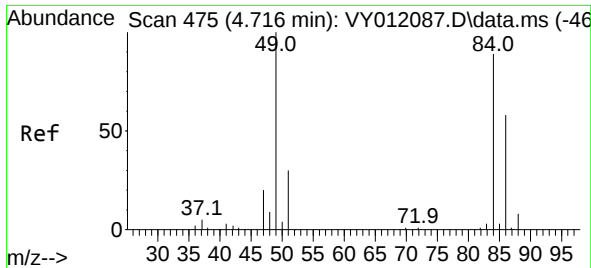
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#16  
Acetone  
Concen: 129.575 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.012 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

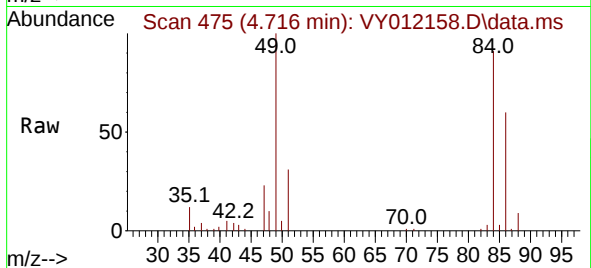
Tgt Ion: 43 Resp: 51766  
Ion Ratio Lower Upper  
43 100  
58 33.2 27.9 41.9





#20  
Methylene Chloride  
Concen: 12.118 ug/l  
RT: 4.716 min Scan# 475  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

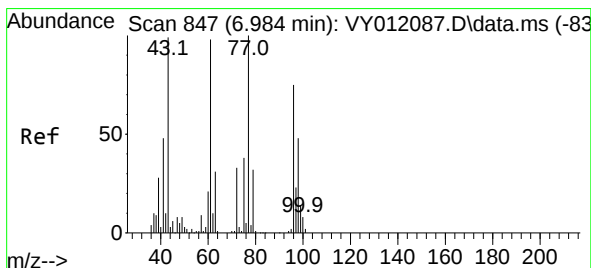
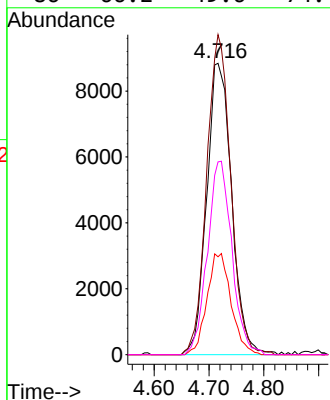
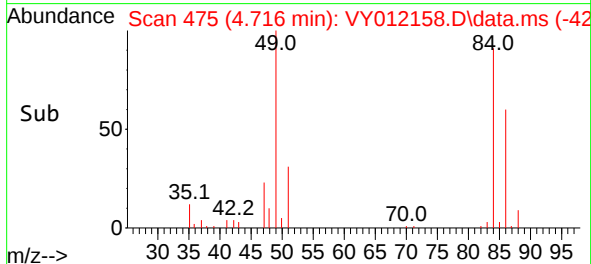
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



Tgt Ion: 84 Resp: 28039  
Ion Ratio Lower Upper  
84 100  
49 109.8 95.4 143.2  
51 33.6 29.9 44.9  
86 66.2 49.6 74.4

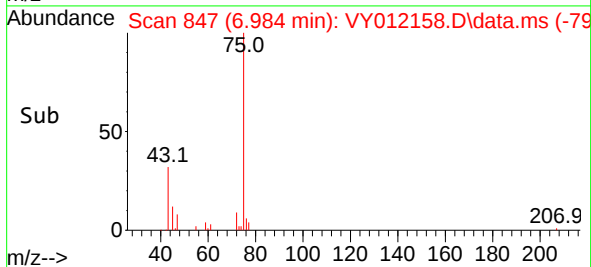
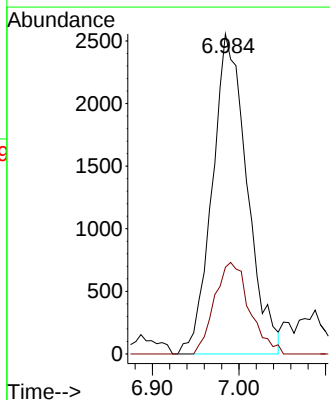
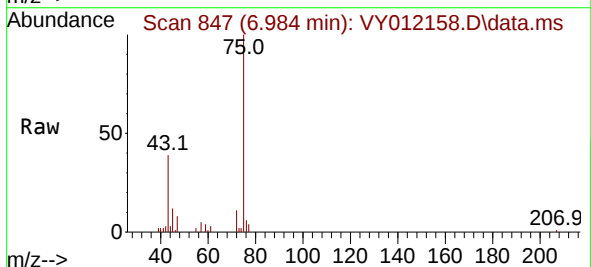
Manual Integrations  
APPROVED

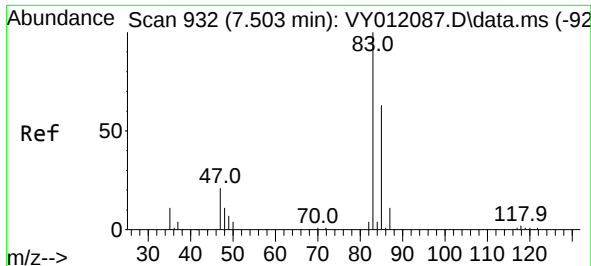
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#25  
2-Butanone  
Concen: 13.523 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

Tgt Ion: 43 Resp: 7128  
Ion Ratio Lower Upper  
43 100  
72 27.1 22.6 34.0





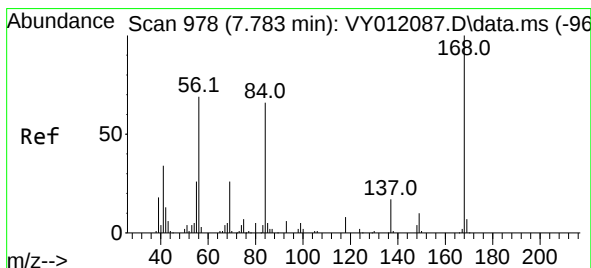
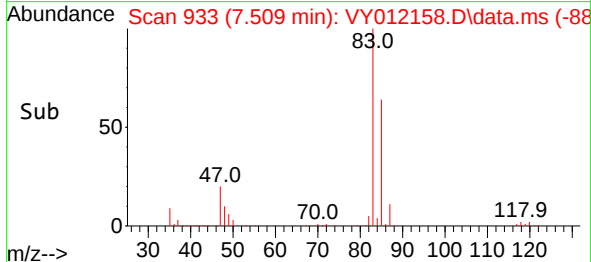
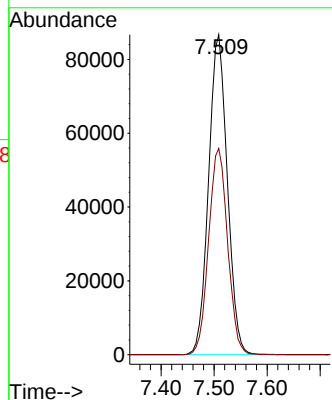
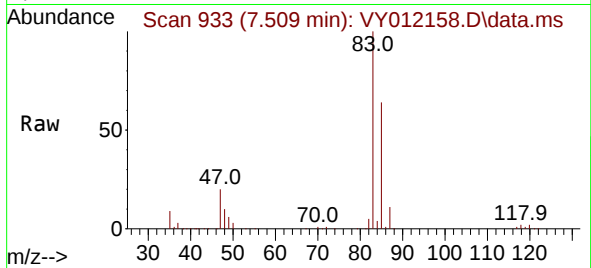
#30  
Chloroform  
Concen: 68.522 ug/l  
RT: 7.509 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7

Tgt Ion: 83 Resp: 21282  
Ion Ratio Lower Upper  
83 100  
85 64.5 51.5 77.3

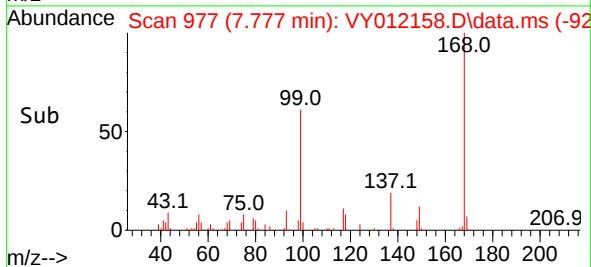
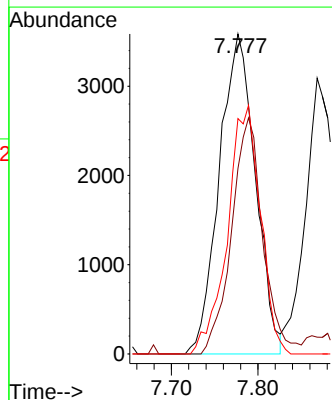
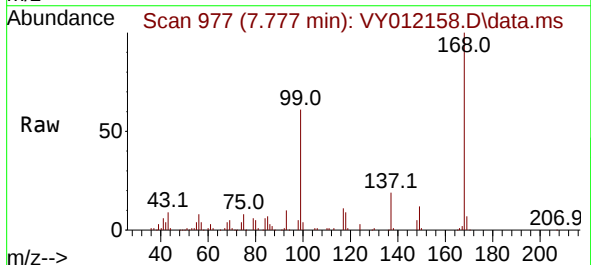
Manual Integrations  
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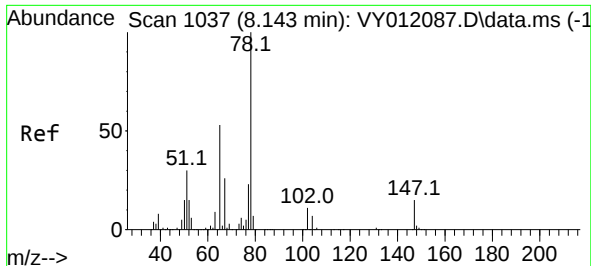
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#31  
Cyclohexane  
Concen: 1.436 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.006 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

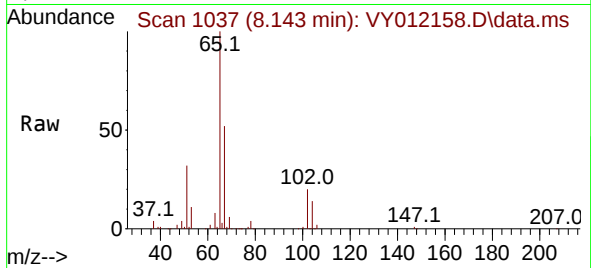
Tgt Ion: 56 Resp: 10390  
Ion Ratio Lower Upper  
56 100  
69 57.9 29.2 43.8#  
84 73.6 72.6 108.8





#33  
1,2-Dichloroethane-d4  
Concen: 44.369 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

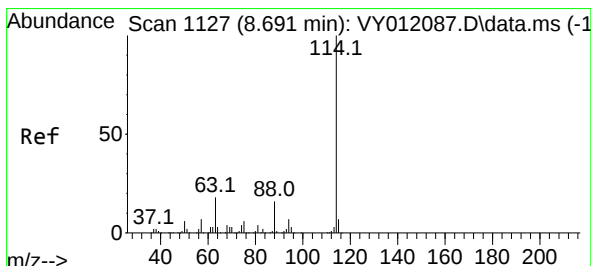
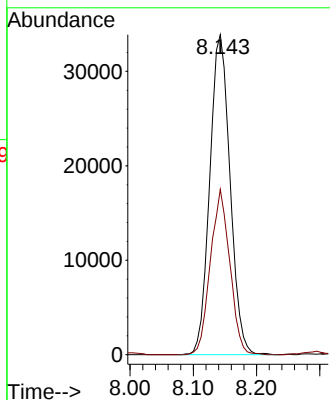
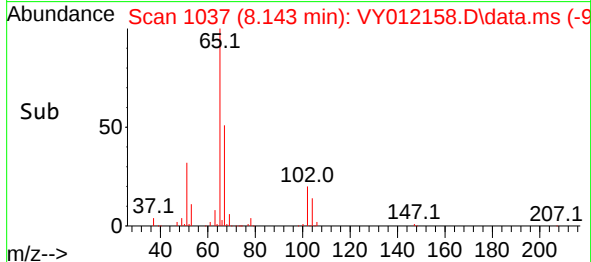
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



Tgt Ion: 65 Resp: 75352  
Ion Ratio Lower Upper  
65 100  
67 49.5 0.0 103.2

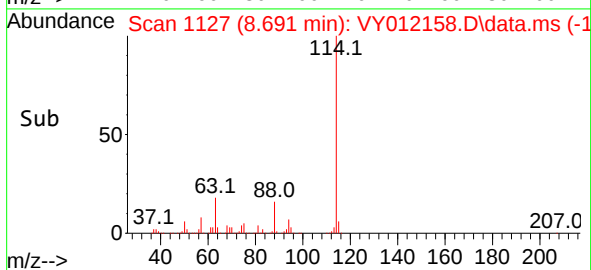
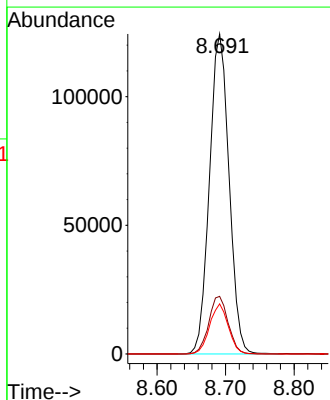
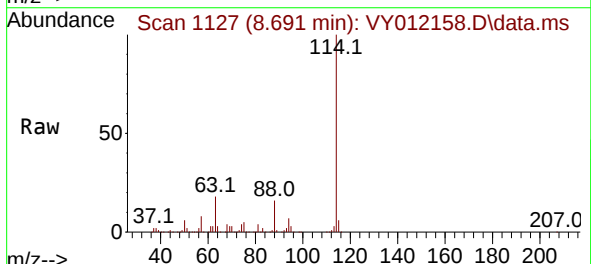
Manual Integrations  
APPROVED

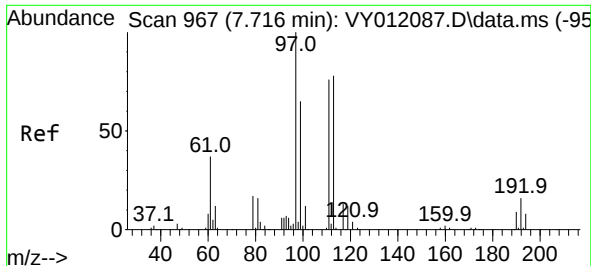
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.691 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

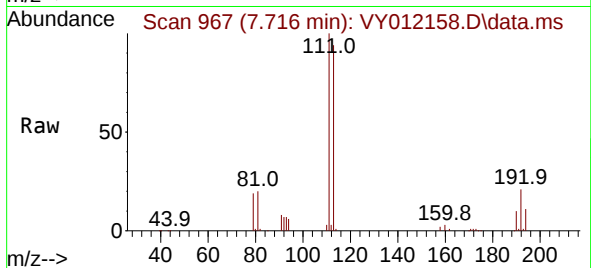
Tgt Ion:114 Resp: 246744  
Ion Ratio Lower Upper  
114 100  
63 18.0 0.0 39.6  
88 15.7 0.0 32.2





#35  
Dibromofluoromethane  
Concen: 43.413 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

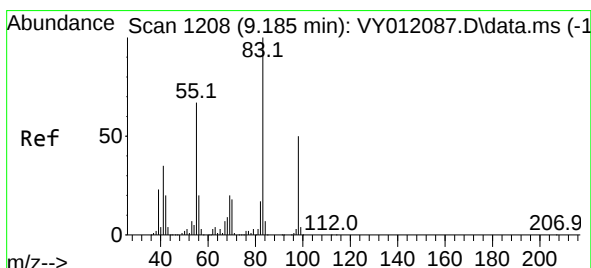
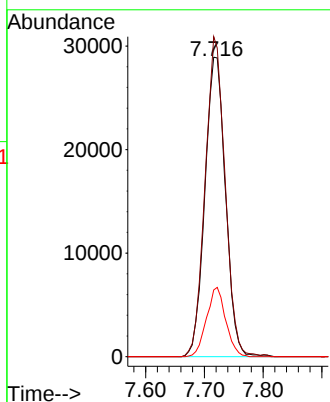
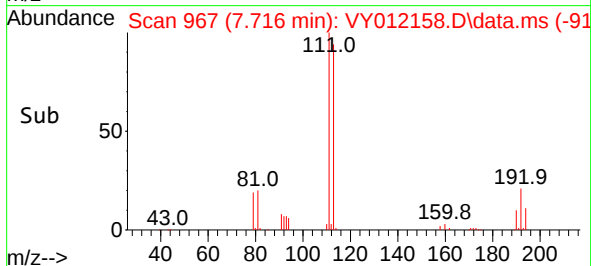
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



Tgt Ion: 113 Resp: 7040  
Ion Ratio Lower Upper  
113 100  
111 103.5 83.0 124.4  
192 21.5 16.0 24.0

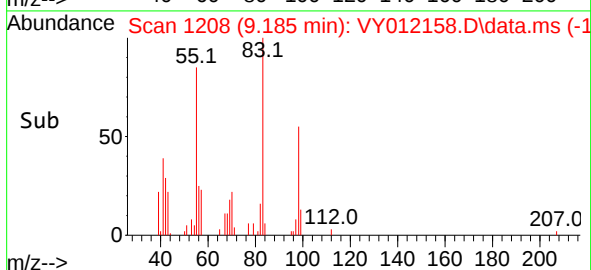
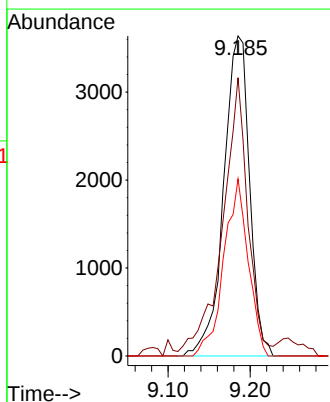
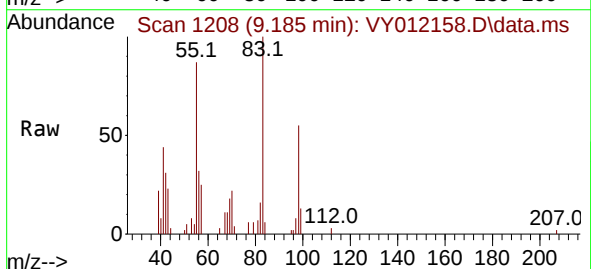
Manual Integrations  
APPROVED

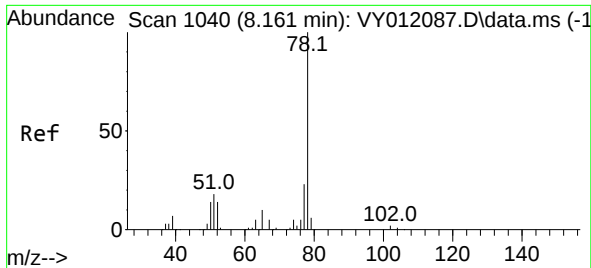
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#39  
Methylcyclohexane  
Concen: 2.711 ug/l  
RT: 9.185 min Scan# 1208  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

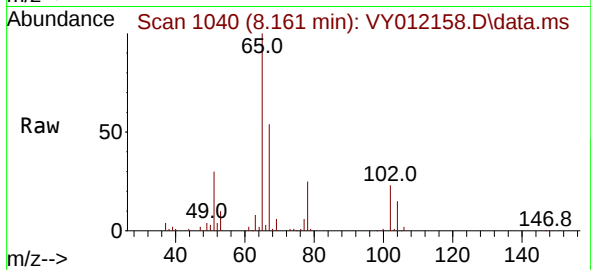
Tgt Ion: 83 Resp: 7967  
Ion Ratio Lower Upper  
83 100  
55 85.5 58.2 87.2  
98 55.3 38.6 58.0





#40  
Benzene  
Concen: 1.121 ug/l  
RT: 8.161 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

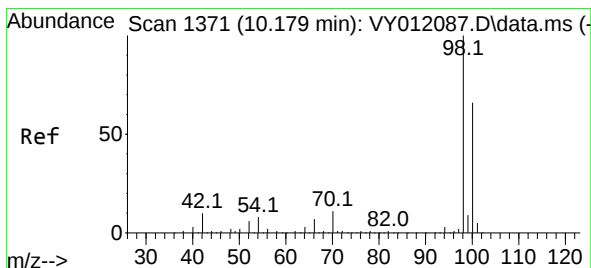
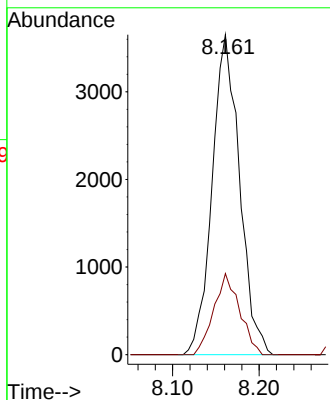
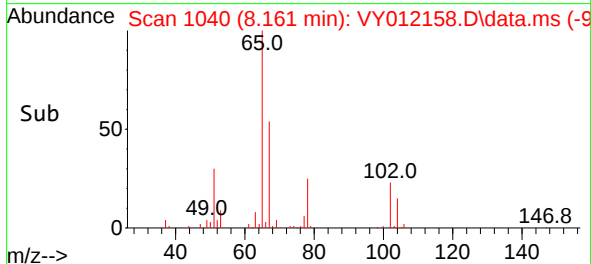
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



Tgt Ion: 78 Resp: 803  
Ion Ratio Lower Upper  
78 100  
77 25.4 18.6 27.8

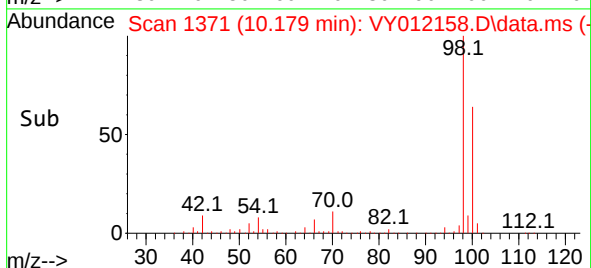
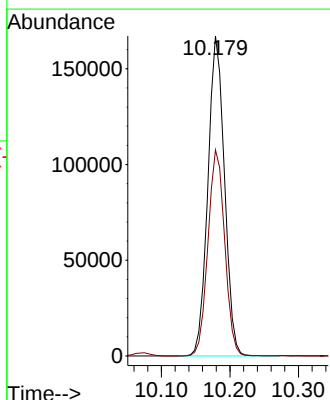
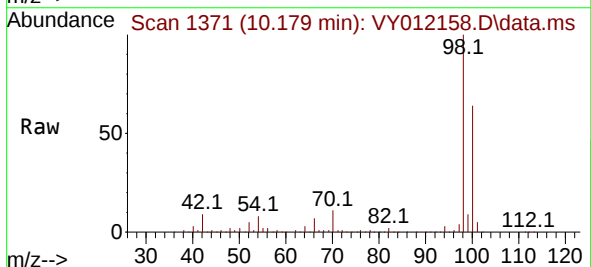
Manual Integrations  
APPROVED

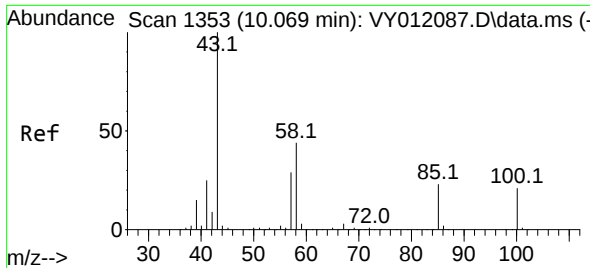
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#50  
Toluene-d8  
Concen: 43.968 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

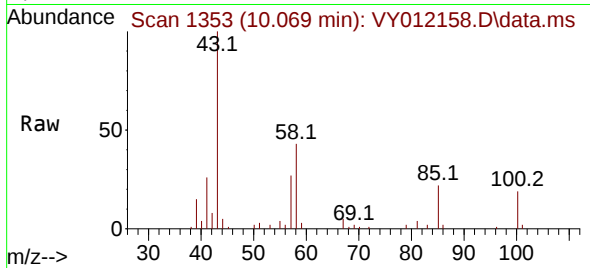
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100 65.0 51.9 77.9





#51  
4-Methyl-2-Pentanone  
Concen: 12.322 ug/l  
RT: 10.069 min Scan# 1353  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

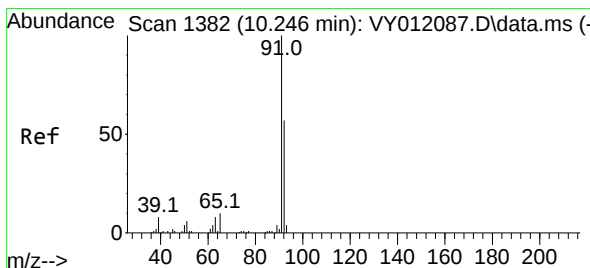
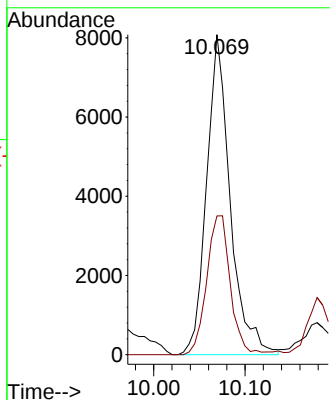
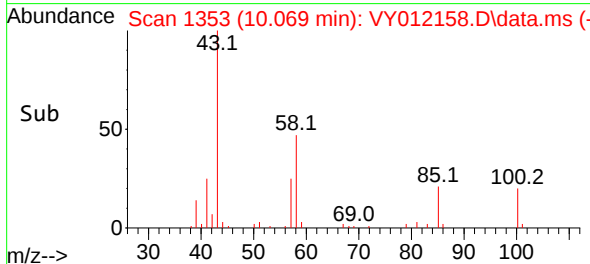
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



Tgt Ion: 43 Resp: 14470  
Ion Ratio Lower Upper  
43 100  
58 43.4 32.9 49.3

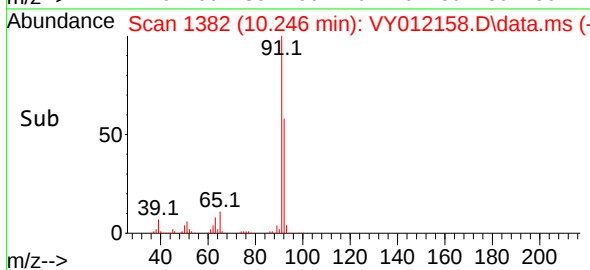
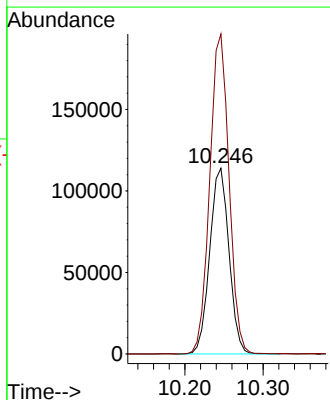
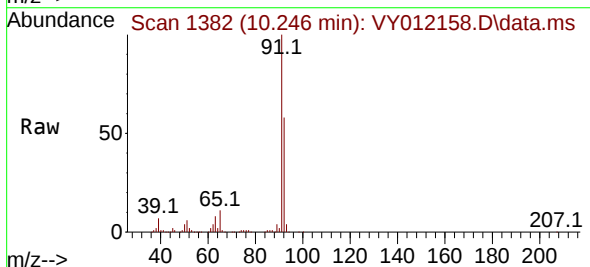
Manual Integrations  
APPROVED

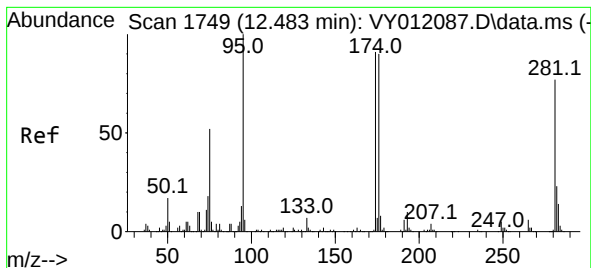
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#52  
Toluene  
Concen: 41.005 ug/l  
RT: 10.246 min Scan# 1382  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

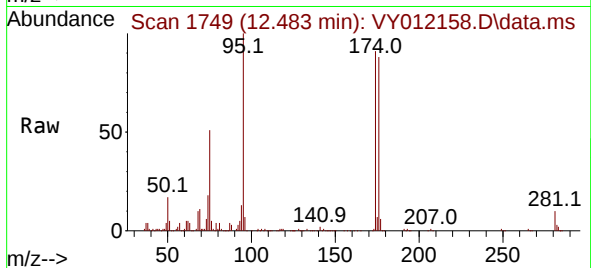
Tgt Ion: 92 Resp: 194606  
Ion Ratio Lower Upper  
92 100  
91 172.2 137.4 206.0





#62  
4-Bromofluorobenzene  
Concen: 36.303 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

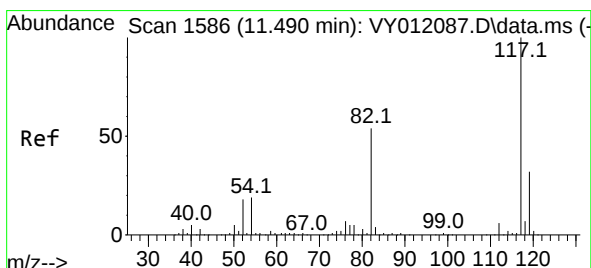
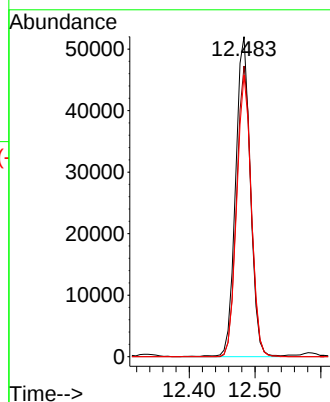
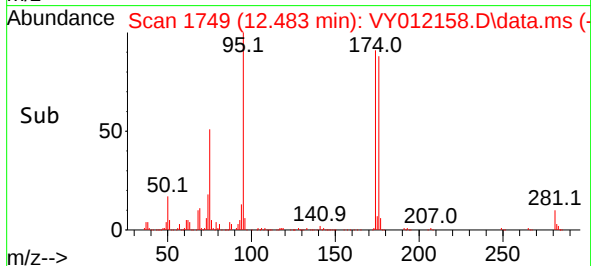
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



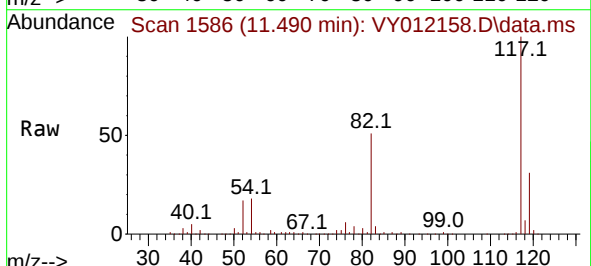
Tgt Ion: 95 Resp: 81229  
Ion Ratio Lower Upper  
95 100  
174 89.2 0.0 172.0  
176 86.4 0.0 167.6

Manual Integrations  
APPROVED

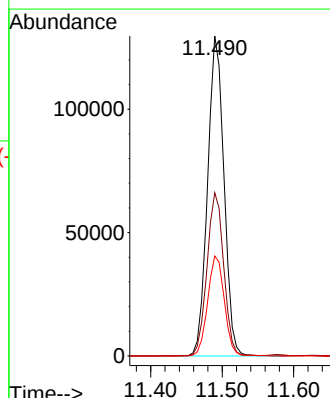
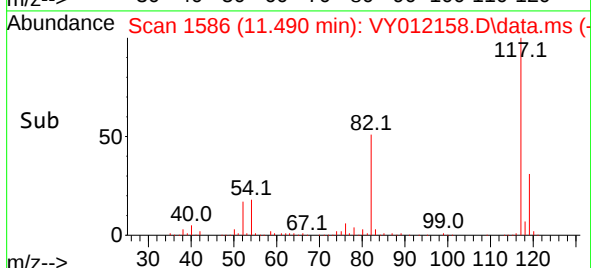
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023

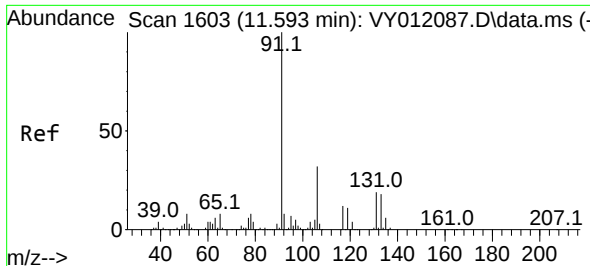


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15



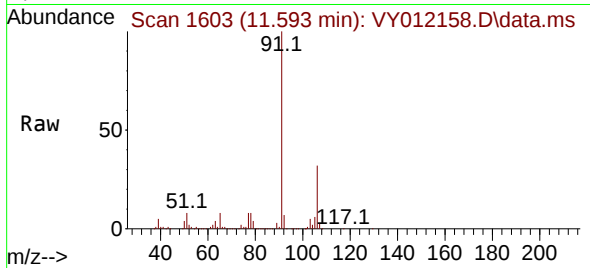
Tgt Ion:117 Resp: 206206  
Ion Ratio Lower Upper  
117 100  
82 50.8 44.8 67.2  
119 31.3 25.4 38.2





#67  
Ethyl Benzene  
Concen: 11.445 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

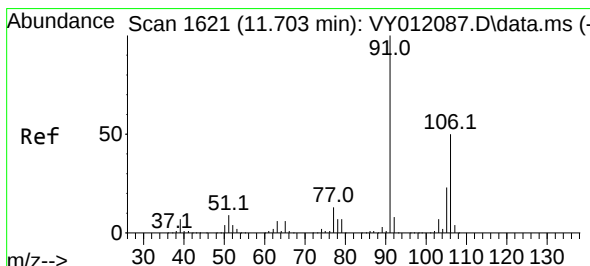
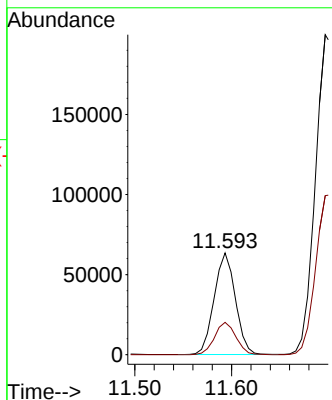
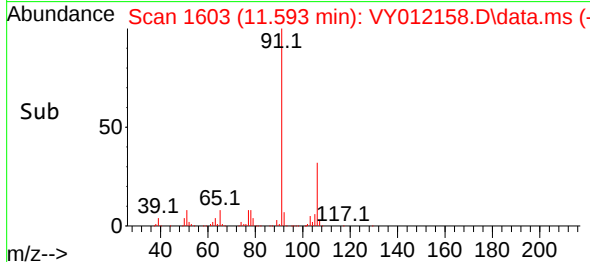
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



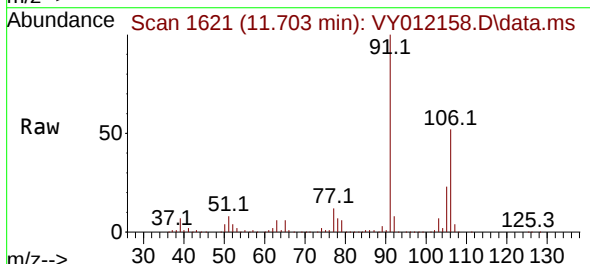
Tgt Ion: 91 Resp: 96336  
Ion Ratio Lower Upper  
91 100  
106 31.9 25.0 37.4

Manual Integrations  
APPROVED

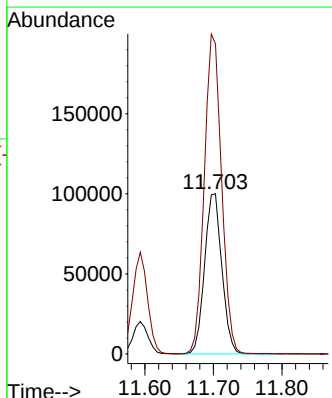
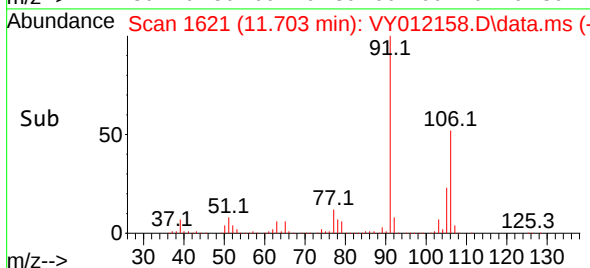
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023

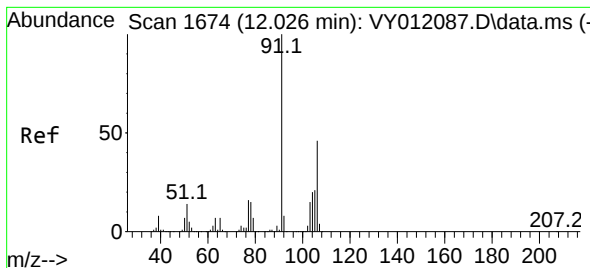


#68  
m/p-Xylenes  
Concen: 53.235 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15



Tgt Ion:106 Resp: 175757  
Ion Ratio Lower Upper  
106 100  
91 199.5 162.5 243.7





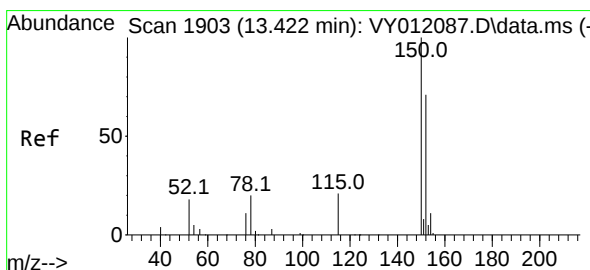
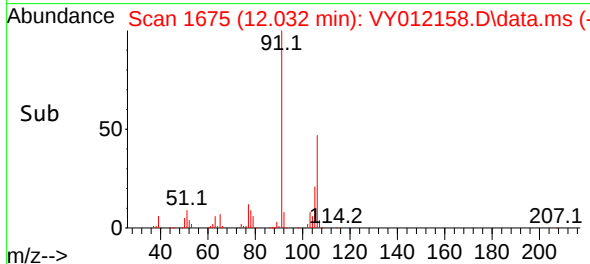
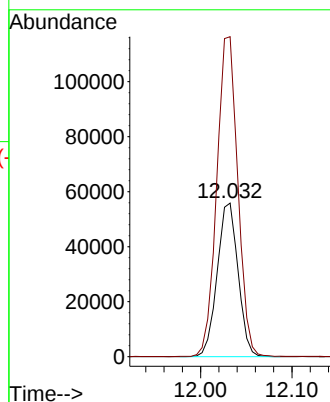
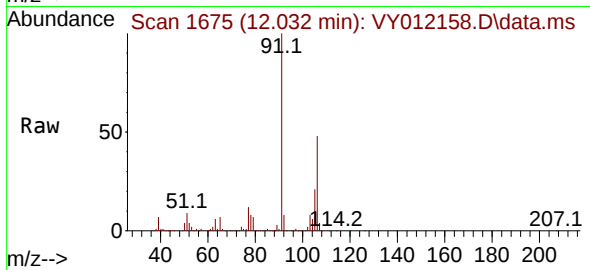
#69  
o-Xylene  
Concen: 28.201 ug/l  
RT: 12.032 min Scan# 106  
Delta R.T. 0.006 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7

Tgt Ion:106 Resp: 88652  
Ion Ratio Lower Upper  
106 100  
91 210.6 107.5 322.4

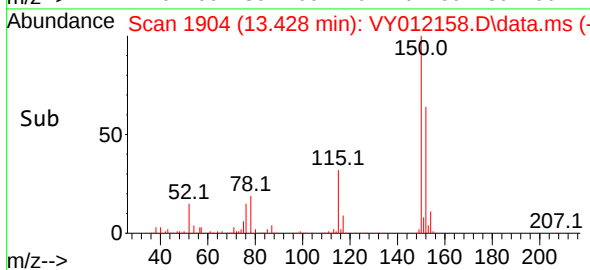
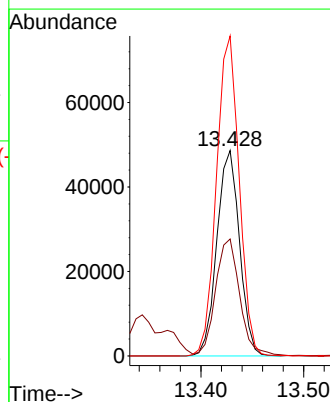
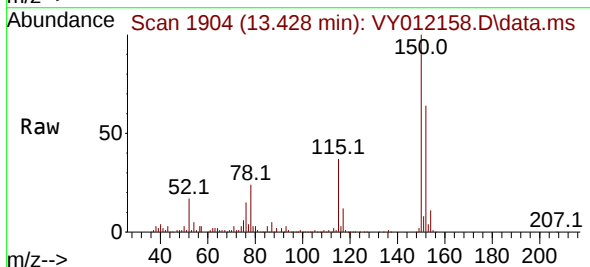
Manual Integrations  
APPROVED

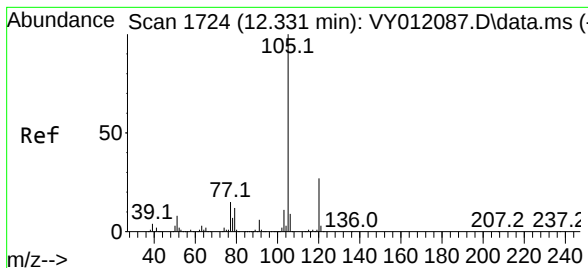
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

Tgt Ion:152 Resp: 74333  
Ion Ratio Lower Upper  
152 100  
115 60.2 29.1 87.3  
150 156.1 0.0 342.6





#73

Isopropylbenzene

Concen: 3.087 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. -0.000 min

Lab File: VY012158.D

Acq: 11 Jan 2023 13:15

Instrument :

MSVOA\_Y

ClientSampleId :

SLUDGE-7

Tgt Ion:105 Resp: 1815

Ion Ratio Lower Upper

105 100

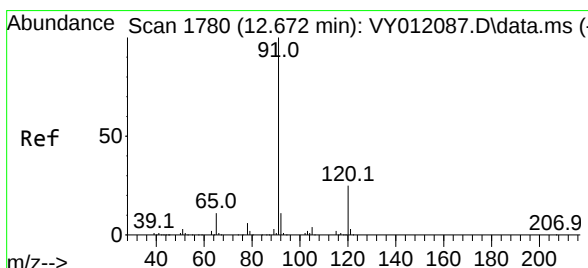
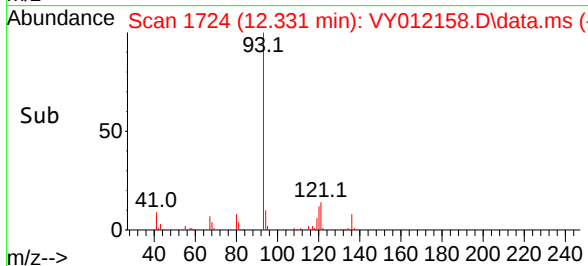
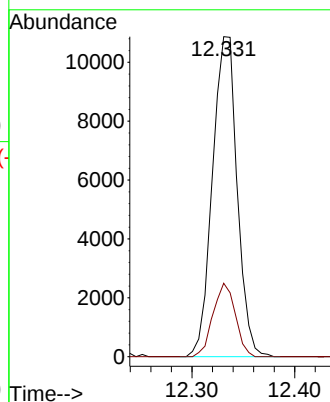
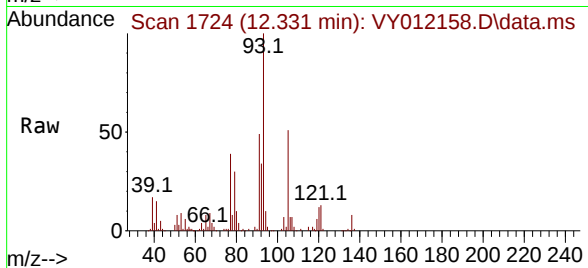
120 20.7 13.2 39.6

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 01/12/2023

Supervised By :Mahesh Dadoda 01/12/2023



#78

n-propylbenzene

Concen: 3.360 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.000 min

Lab File: VY012158.D

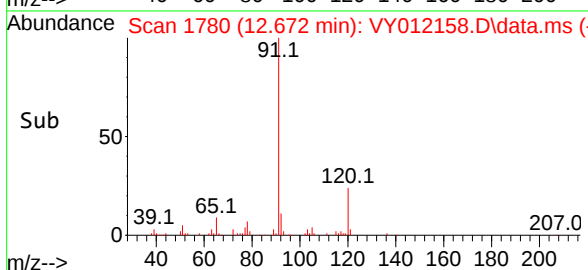
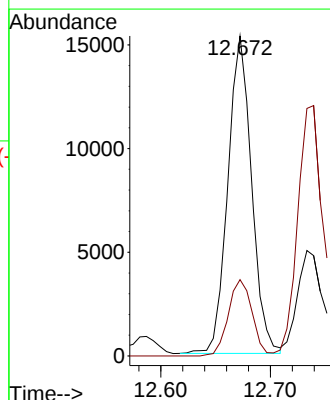
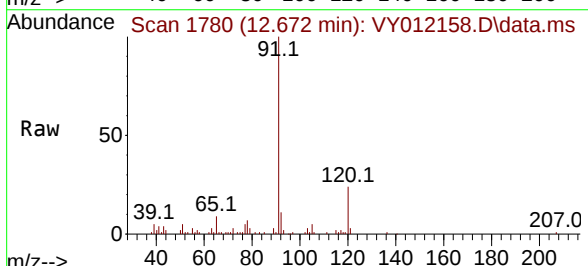
Acq: 11 Jan 2023 13:15

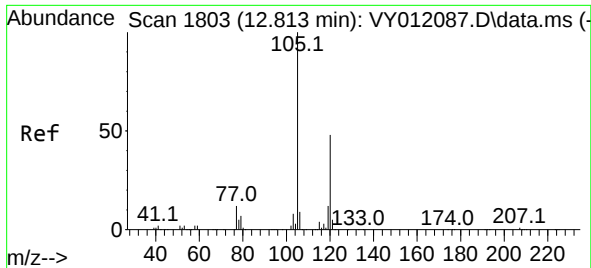
Tgt Ion: 91 Resp: 23073

Ion Ratio Lower Upper

91 100

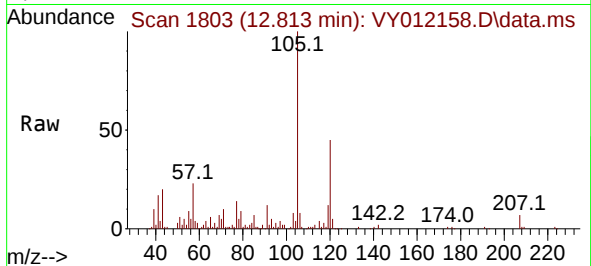
120 24.1 11.8 35.4





#80  
1,3,5-Trimethylbenzene  
Concen: 7.239 ug/l  
RT: 12.813 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15

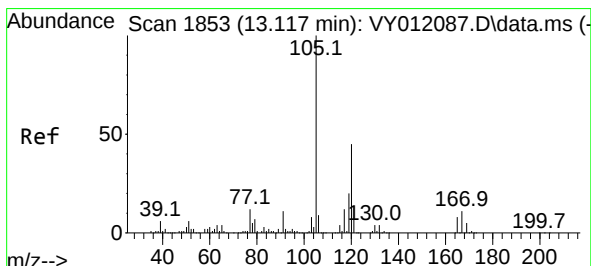
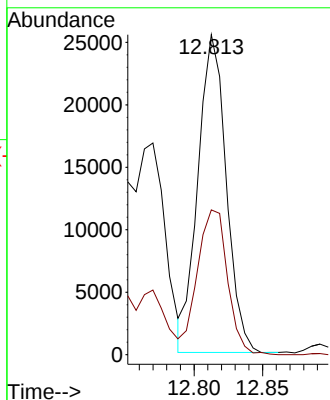
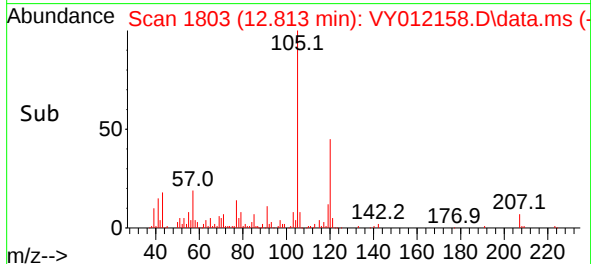
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SLUDGE-7



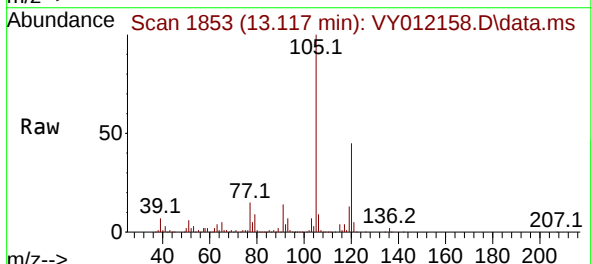
Tgt Ion:105 Resp: 36520  
Ion Ratio Lower Upper  
105 100  
120 48.7 24.2 72.6

Manual Integrations  
APPROVED

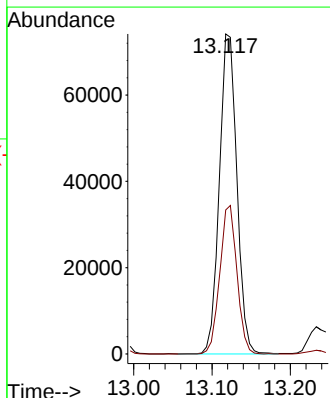
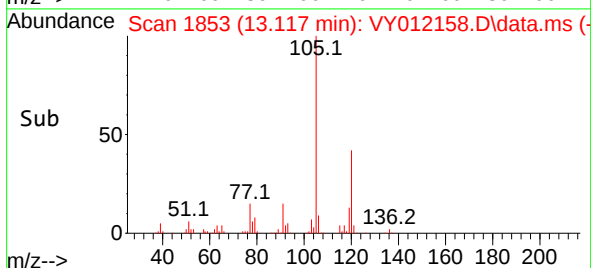
Reviewed By :Krupa Patel 01/12/2023  
Supervised By :Mahesh Dadoda 01/12/2023

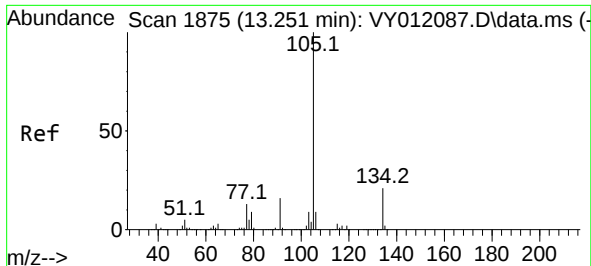


#84  
1,2,4-Trimethylbenzene  
Concen: 23.116 ug/l  
RT: 13.117 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VY012158.D  
Acq: 11 Jan 2023 13:15



Tgt Ion:105 Resp: 115435  
Ion Ratio Lower Upper  
105 100  
120 45.5 22.9 68.7





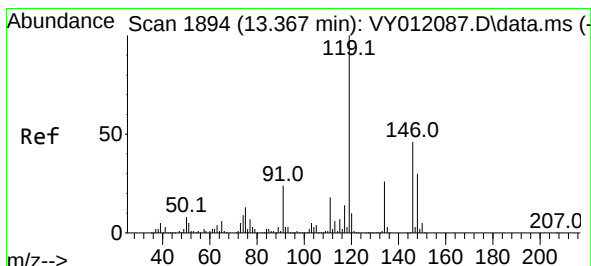
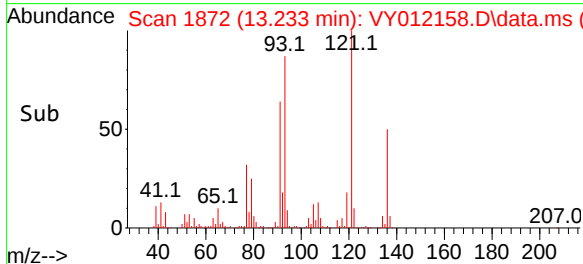
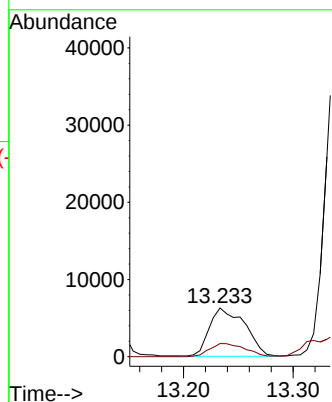
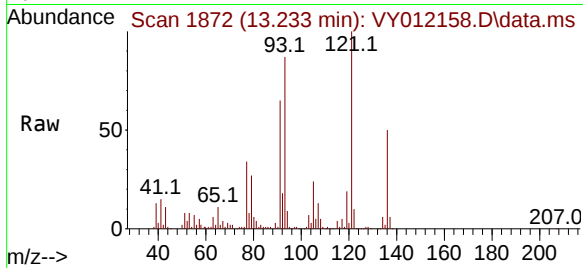
#85  
 sec-Butylbenzene  
 Concen: 2.227 ug/l  
 RT: 13.233 min Scan# 1875  
 Delta R.T. -0.018 min  
 Lab File: VY012158.D  
 Acq: 11 Jan 2023 13:15

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SLUDGE-7

Tgt Ion:105 Resp: 1415  
 Ion Ratio Lower Upper  
 105 100  
 134 27.4 10.1 30.3

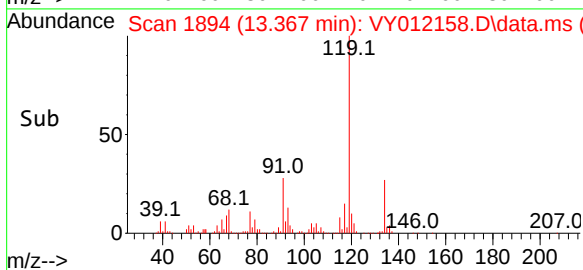
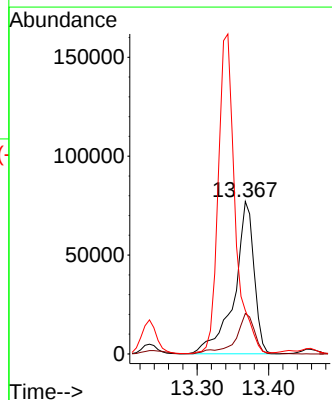
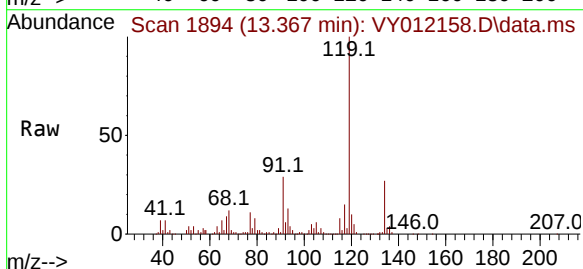
Manual Integrations  
 APPROVED

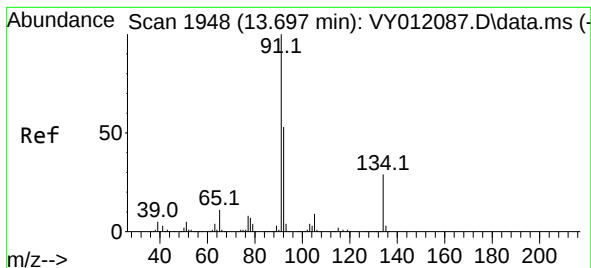
Reviewed By :Krupa Patel 01/12/2023  
 Supervised By :Mahesh Dadoda 01/12/2023



#86  
 p-Isopropyltoluene  
 Concen: 26.762 ug/l  
 RT: 13.367 min Scan# 1894  
 Delta R.T. 0.000 min  
 Lab File: VY012158.D  
 Acq: 11 Jan 2023 13:15

Tgt Ion:119 Resp: 147302  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 13.0 39.0  
 91 0.0 11.9 35.9#





#89

n-Butylbenzene

Concen: 1.597 ug/l m

RT: 13.697 min Scan# 1948

Delta R.T. -0.000 min

Lab File: VY012158.D

Acq: 11 Jan 2023 13:15

Instrument :

MSVOA\_Y

ClientSampleId :

SLUDGE-7

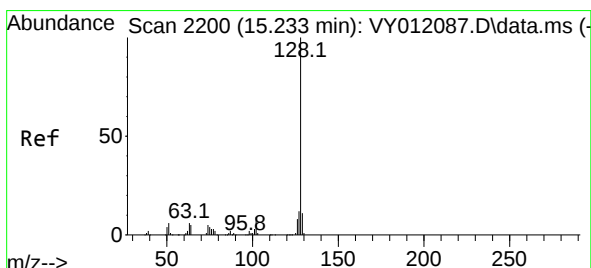
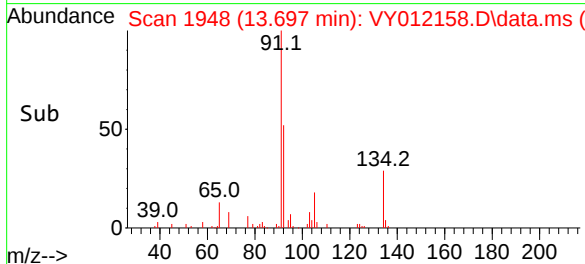
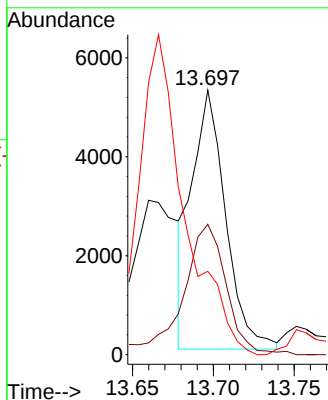
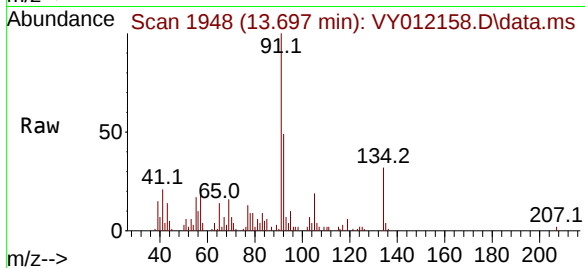
|             |             |
|-------------|-------------|
| Tgt Ion: 91 | Resp: 7619  |
| Ion Ratio   | Lower Upper |
| 91 100      |             |
| 92 117.6    | 26.8 80.4   |
| 134 44.9    | 13.3 39.8   |

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 01/12/2023

Supervised By :Mahesh Dadoda 01/12/2023



#95

Naphthalene

Concen: 3.475 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.000 min

Lab File: VY012158.D

Acq: 11 Jan 2023 13:15

|             |             |
|-------------|-------------|
| Tgt Ion:128 | Resp: 10741 |
| Ion Ratio   | Lower Upper |
| 128 100     |             |
| 127 17.5    | 10.2 15.2   |
| 129 9.1     | 8.8 13.2    |

