

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072623\  
 Data File : VD076819.D  
 Acq On : 26 Jul 2023 21:32  
 Operator : KP/SY  
 Sample : 03775-03  
 Misc : 5.23G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BUILDING-A-8-(0-5)

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/27/2023  
 Supervised By :Mahesh Dadoda 07/27/2023

Quant Time: Jul 27 04:27:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|----------|--------|----------|
| -----                       |                |      |                     |          |        |          |
| Internal Standards          |                |      |                     |          |        |          |
| 1) Pentafluorobenzene       | 7.881          | 168  | 162767              | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.775          | 114  | 403228              | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.581         | 117  | 366432              | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.516         | 152  | 161998              | 50.000   | ug/l   | # 0.00   |
|                             |                |      |                     |          |        |          |
| System Monitoring Compounds |                |      |                     |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.252          | 65   | 100917              | 62.248   | ug/l   | 0.02     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 124.500% |          |        |          |
| 35) Dibromofluoromethane    | 7.805          | 113  | 112543              | 44.415   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 88.820%  |          |        |          |
| 50) Toluene-d8              | 10.275         | 98   | 480192              | 52.973   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 134 |      | Recovery = 105.940% |          |        |          |
| 62) 4-Bromofluorobenzene    | 12.575         | 95   | 139641              | 47.619   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 30 - 143 |      | Recovery = 95.240%  |          |        |          |
|                             |                |      |                     |          |        |          |
| Target Compounds            |                |      |                     |          |        |          |
|                             |                |      |                     |          |        | Qvalue   |
| 16) Acetone                 | 4.023          | 43   | 27526               | 71.094   | ug/l   | 87       |
| 17) Carbon Disulfide        | 4.264          | 76   | 19939               | 5.308    | ug/l # | 95       |
| 25) 2-Butanone              | 7.081          | 43   | 15654               | 30.209   | ug/l # | 77       |
| 31) Cyclohexane             | 7.881          | 56   | 28676               | 12.019   | ug/l # | 86       |
| 39) Methylcyclohexane       | 9.269          | 83   | 41612               | 10.884   | ug/l   | 92       |
| 40) Benzene                 | 8.228          | 78   | 47334289m           | 4530.709 | ug/l   |          |
| 52) Toluene                 | 10.322         | 92   | 35319802m           | 5147.397 | ug/l   |          |
| 67) Ethyl Benzene           | 11.681         | 91   | 12972544            | 1002.306 | ug/l   | 91       |
| 68) m/p-Xylenes             | 11.781         | 106  | 20513451m           | 4126.836 | ug/l   |          |
| 69) o-Xylene                | 12.122         | 106  | 13014018            | 2707.416 | ug/l   | 65       |
| 70) Styrene                 | 12.128         | 104  | 22714569m           | 2699.428 | ug/l   |          |
| 73) Isopropylbenzene        | 12.422         | 105  | 191851              | 16.323   | ug/l   | 96       |
| 78) n-propylbenzene         | 12.763         | 91   | 420396              | 29.504   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.904         | 105  | 2022796             | 212.845  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.210         | 105  | 7253592             | 746.891  | ug/l   | 99       |
| 86) p-Isopropyltoluene      | 13.457         | 119  | 48176               | 4.563    | ug/l # | 74       |
| 89) n-Butylbenzene          | 13.787         | 91   | 44878               | 4.344    | ug/l # | 77       |
| -----                       |                |      |                     |          |        |          |

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

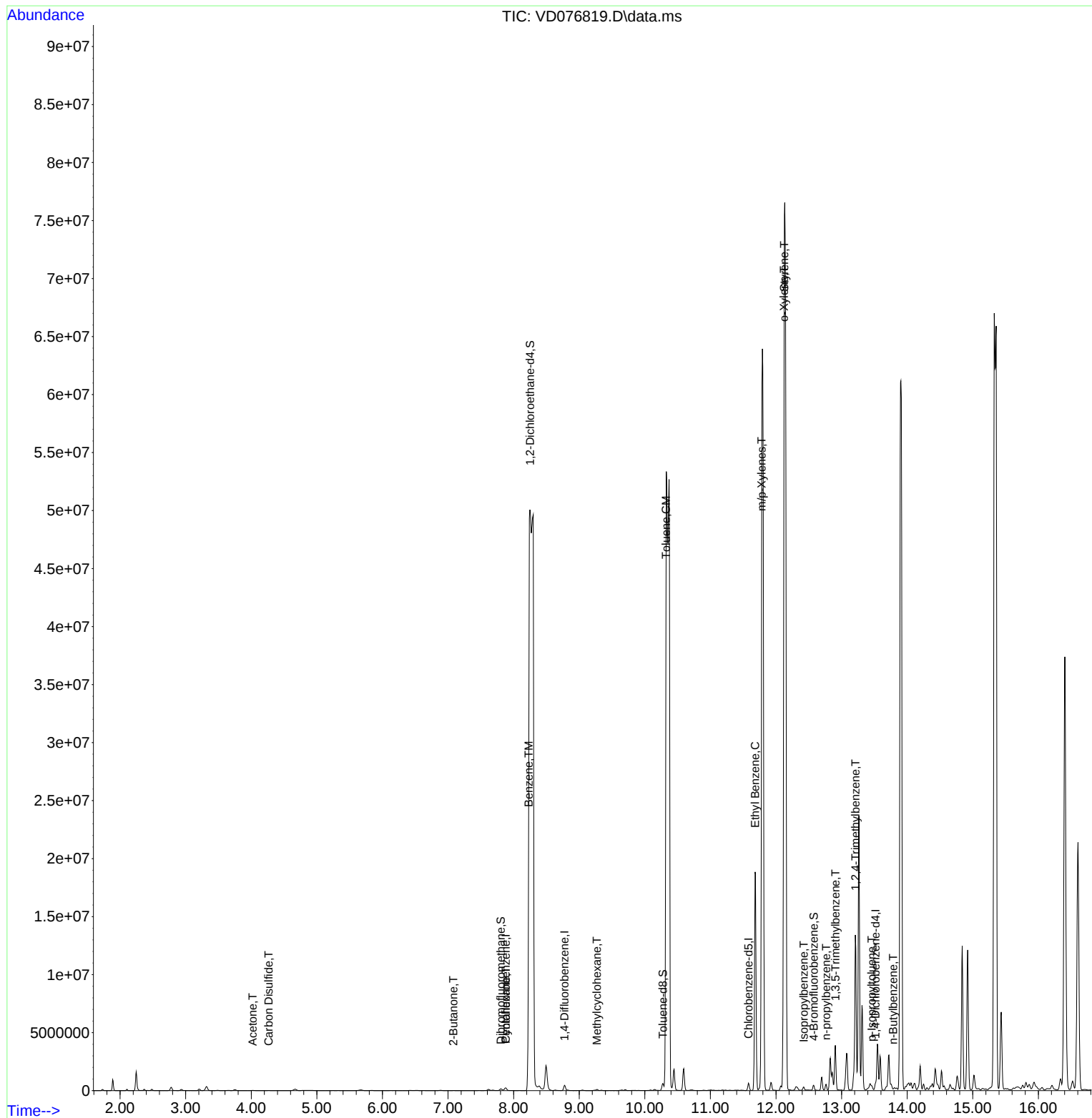
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072623\  
Data File : VD076819.D  
Acq On : 26 Jul 2023 21:32  
Operator : KP/SY  
Sample : 03775-03  
Misc : 5.23G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

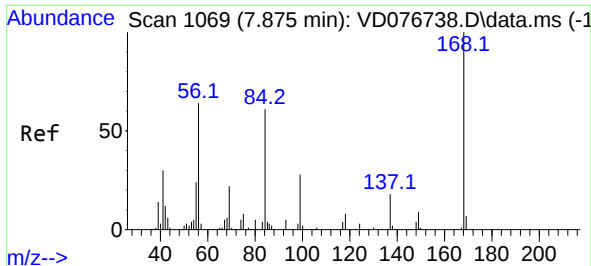
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)

Quant Time: Jul 27 04:27:54 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 17 08:07:52 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

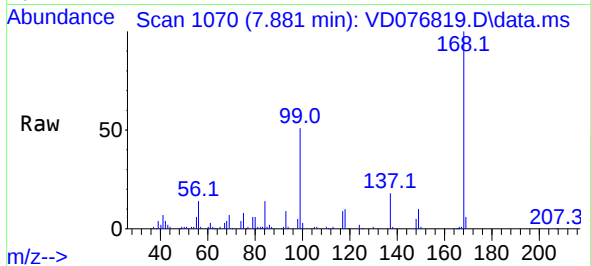
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

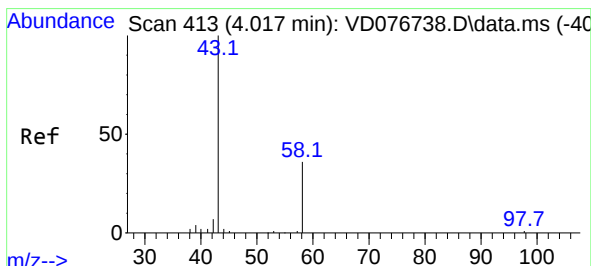
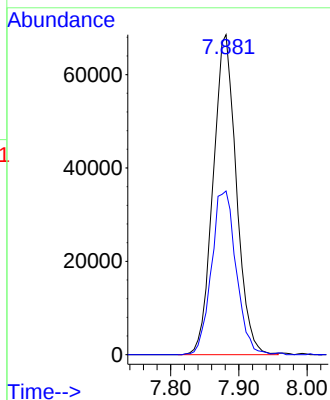
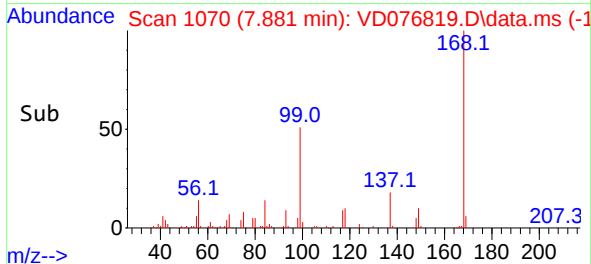
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



Tgt Ion:168 Resp: 16276  
Ion Ratio Lower Upper  
168 100  
99 51.1 36.7 55.1

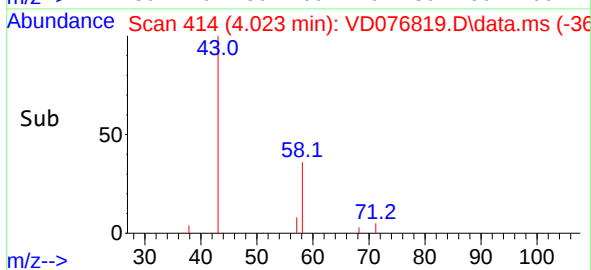
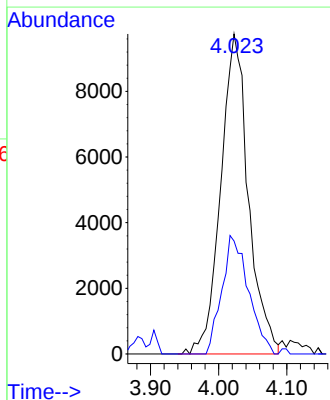
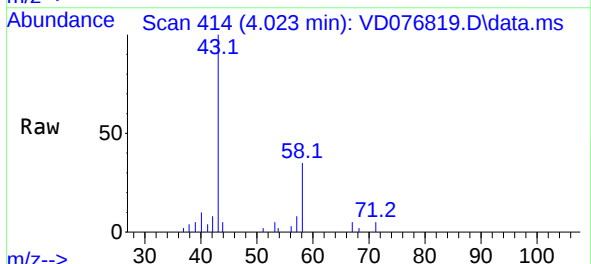
Manual Integrations  
APPROVED

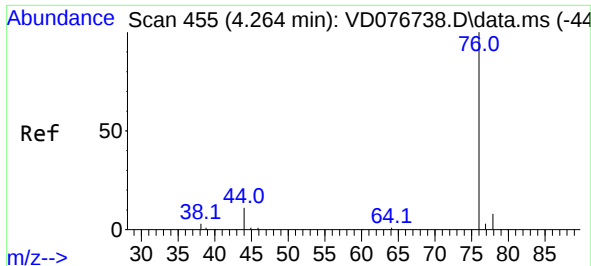
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#16  
Acetone  
Concen: 71.094 ug/l  
RT: 4.023 min Scan# 414  
Delta R.T. 0.005 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

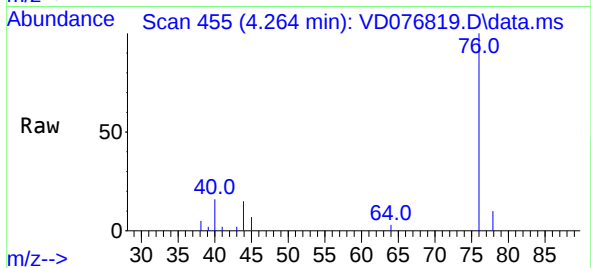
Tgt Ion: 43 Resp: 27526  
Ion Ratio Lower Upper  
43 100  
58 35.3 34.7 52.1





#17  
Carbon Disulfide  
Concen: 5.308 ug/l  
RT: 4.264 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

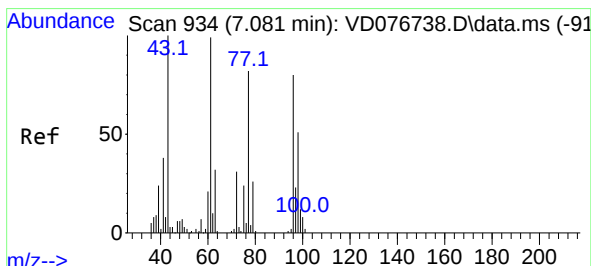
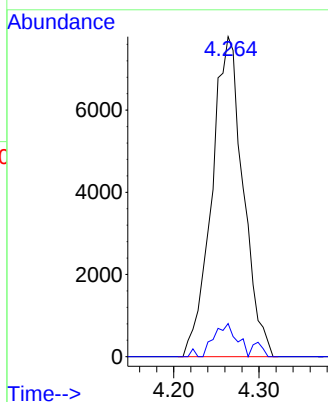
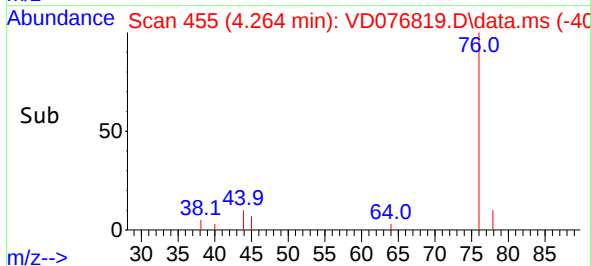
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



Tgt Ion: 76 Resp: 19939  
Ion Ratio Lower Upper  
76 100  
78 10.3 6.8 10.2

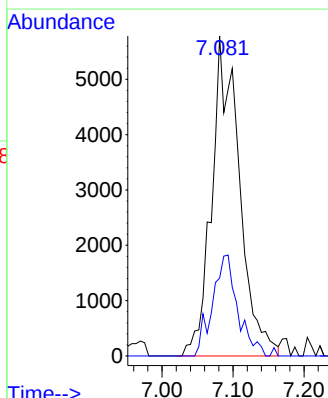
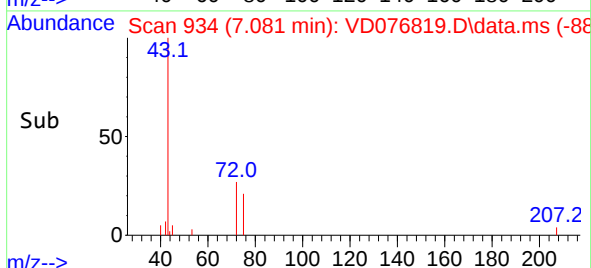
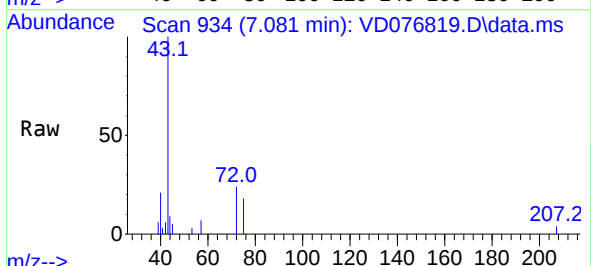
Manual Integrations  
APPROVED

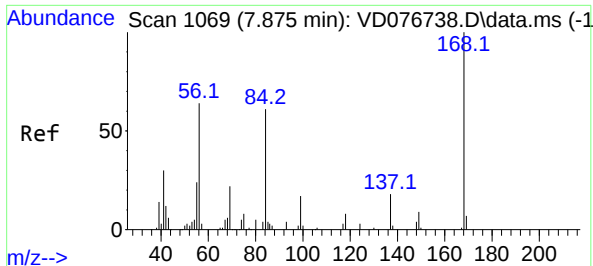
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#25  
2-Butanone  
Concen: 30.209 ug/l  
RT: 7.081 min Scan# 934  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

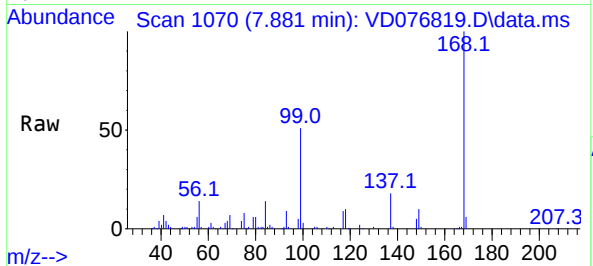
Tgt Ion: 43 Resp: 15654  
Ion Ratio Lower Upper  
43 100  
72 24.4 30.7 46.1#





#31  
Cyclohexane  
Concen: 12.019 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

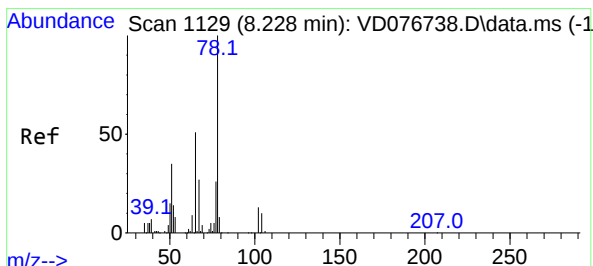
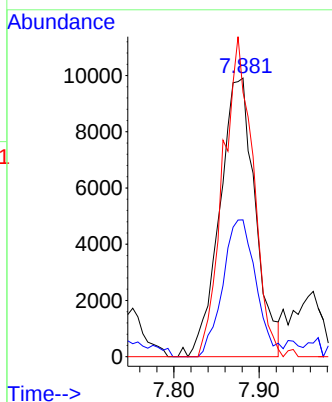
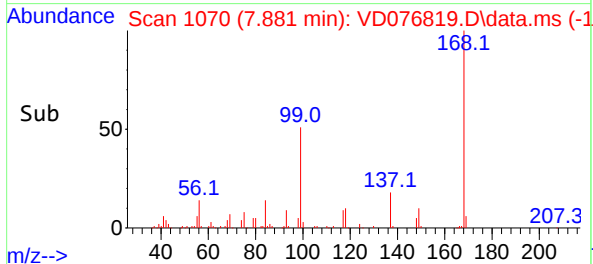
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



Tgt Ion: 56 Resp: 28670  
Ion Ratio Lower Upper  
56 100  
69 49.1 28.6 43.0  
84 94.9 84.8 127.2

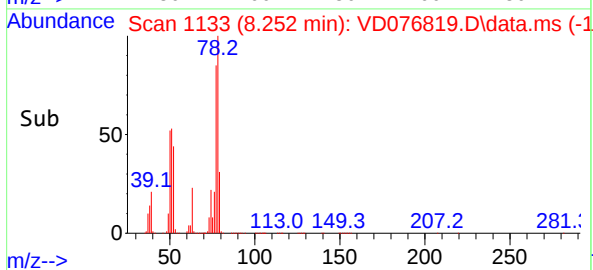
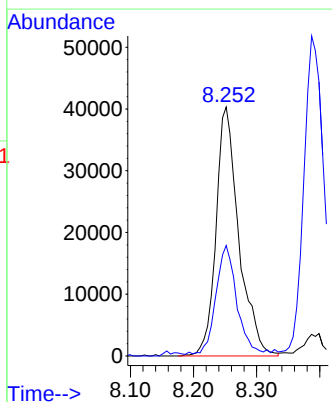
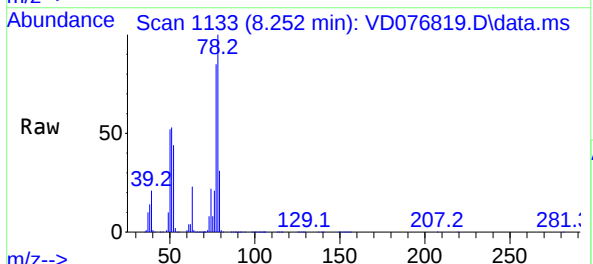
Manual Integrations  
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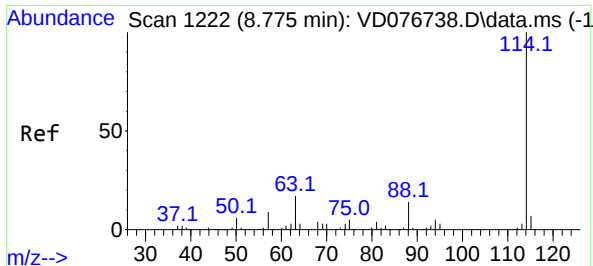
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#33  
1,2-Dichloroethane-d4  
Concen: 62.248 ug/l  
RT: 8.252 min Scan# 1133  
Delta R.T. 0.024 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

Tgt Ion: 65 Resp: 100917  
Ion Ratio Lower Upper  
65 100  
67 39.1 0.0 115.0





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.775 min Scan# 114  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

Instrument :

MSVOA\_D

ClientSampleId :

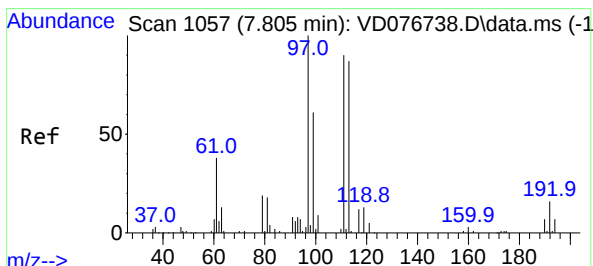
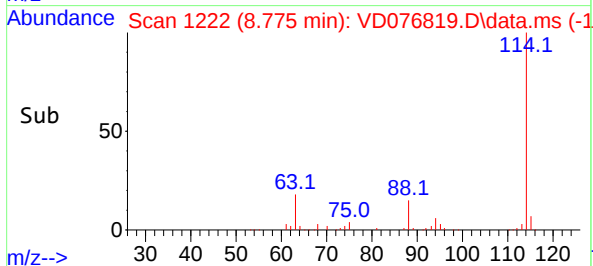
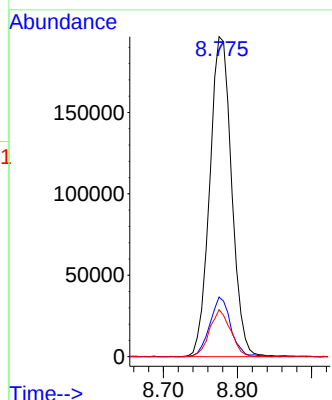
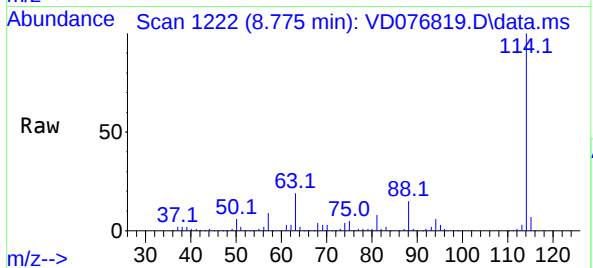
BUILDING-A-8-(0-5)

Tgt Ion:114 Resp: 403228  
Ion Ratio Lower Upper  
114 100  
63 18.7 0.0 33.4  
88 14.7 0.0 26.2

Manual Integrations

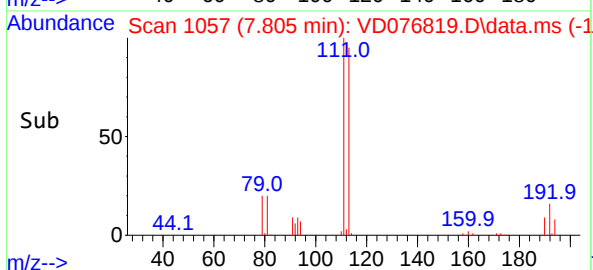
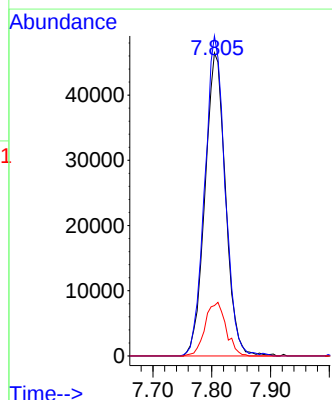
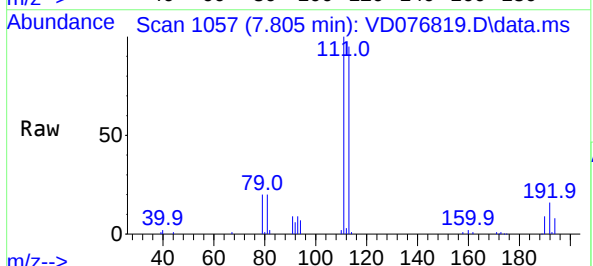
APPROVED

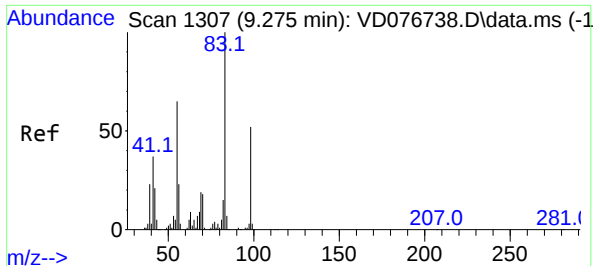
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#35  
Dibromofluoromethane  
Concen: 44.415 ug/l  
RT: 7.805 min Scan# 1057  
Delta R.T. -0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

Tgt Ion:113 Resp: 112543  
Ion Ratio Lower Upper  
113 100  
111 104.3 84.7 127.1  
192 18.1 16.8 25.2





#39

Methylcyclohexane

Concen: 10.884 ug/l

RT: 9.269 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD076819.D

Acq: 26 Jul 2023 21:32

Instrument :

MSVOA\_D

ClientSampleId :

BUILDING-A-8-(0-5)

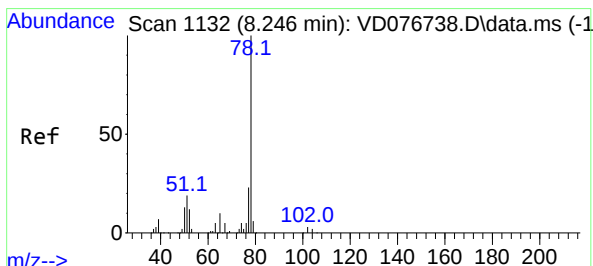
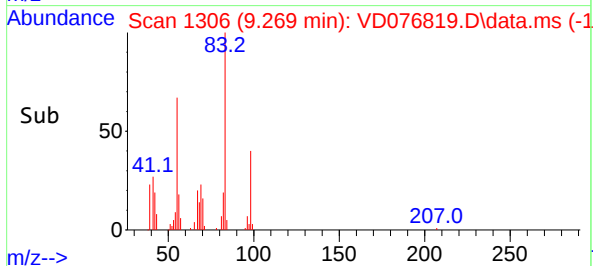
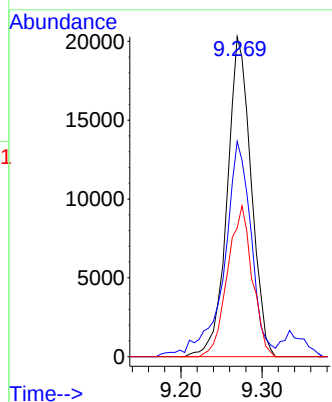
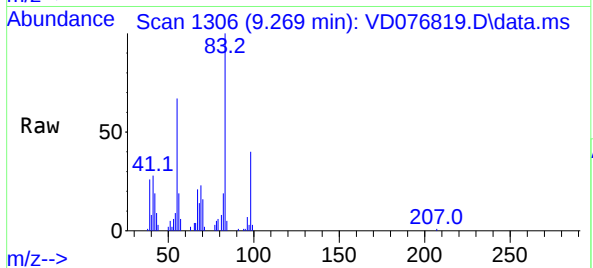
Tgt Ion: 83 Resp: 4161

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 65.2  | 49.4  | 74.0  |
| 98  | 40.2  | 38.4  | 57.6  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#40

Benzene

Concen: 4530.709 ug/l m

RT: 8.228 min Scan# 1129

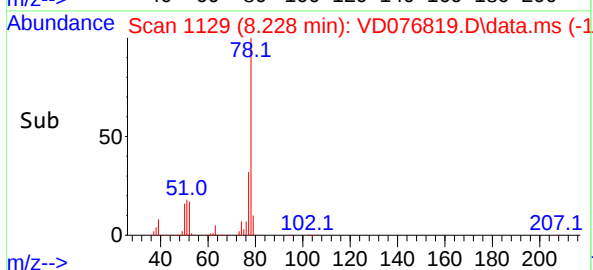
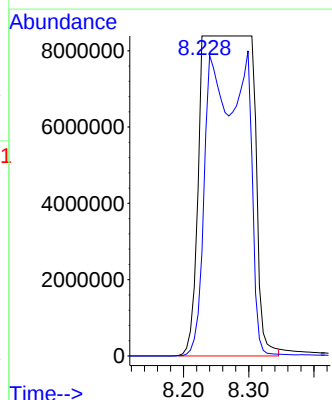
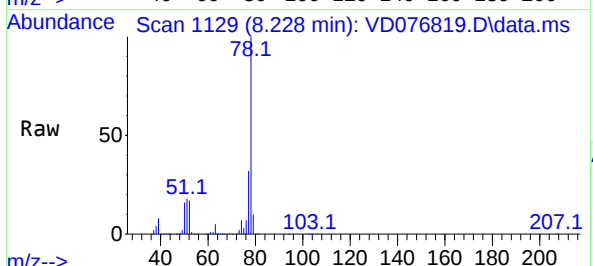
Delta R.T. -0.018 min

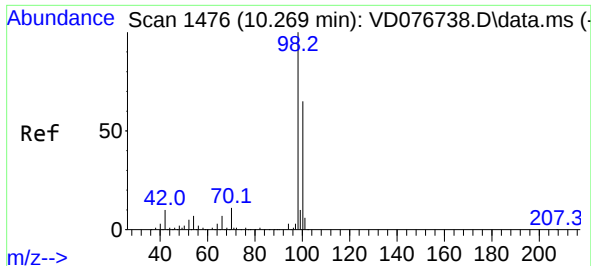
Lab File: VD076819.D

Acq: 26 Jul 2023 21:32

Tgt Ion: 78 Resp:47334289

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 32.5  | 19.4  | 29.0  |





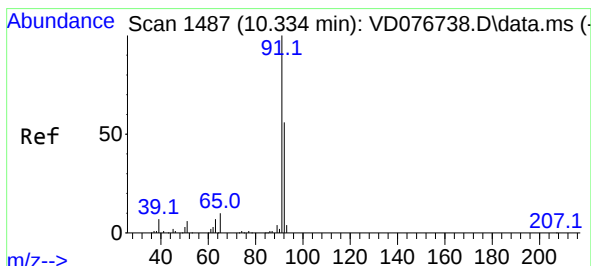
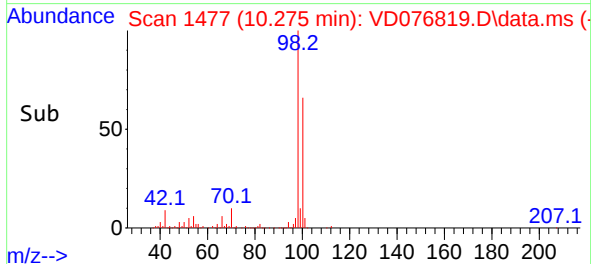
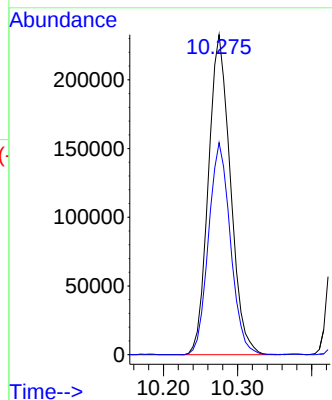
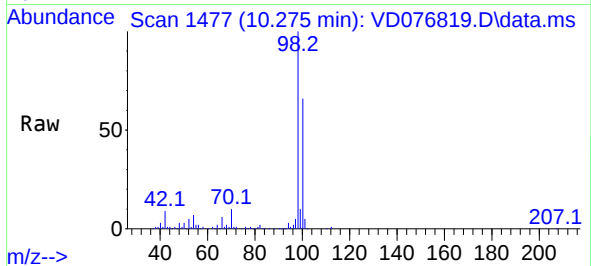
#50  
Toluene-d8  
Concen: 52.973 ug/l  
RT: 10.275 min Scan# 1476  
Delta R.T. 0.006 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)

Tgt Ion: 98 Resp: 480192  
Ion Ratio Lower Upper  
98 100  
100 65.9 50.3 75.5

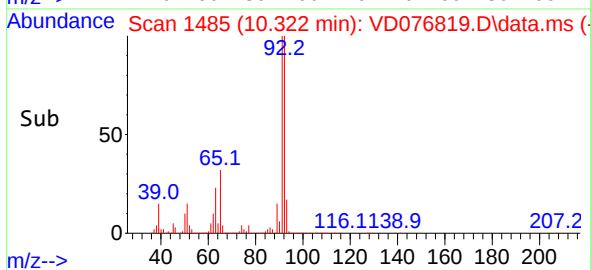
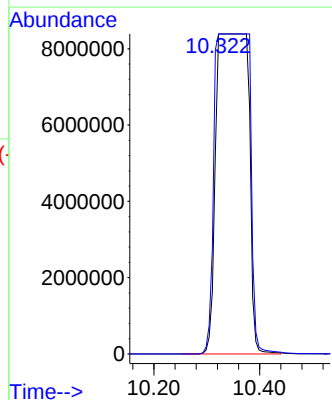
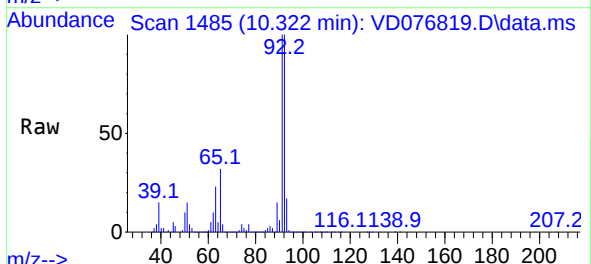
Manual Integrations  
APPROVED

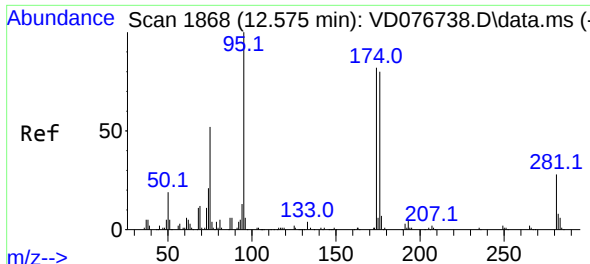
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#52  
Toluene  
Concen: 5147.397 ug/l m  
RT: 10.322 min Scan# 1485  
Delta R.T. -0.012 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

Tgt Ion: 92 Resp:35319802  
Ion Ratio Lower Upper  
92 100  
91 0.0 143.0 214.4#





#62  
4-Bromofluorobenzene  
Concen: 47.619 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

Instrument :

MSVOA\_D

ClientSampleId :

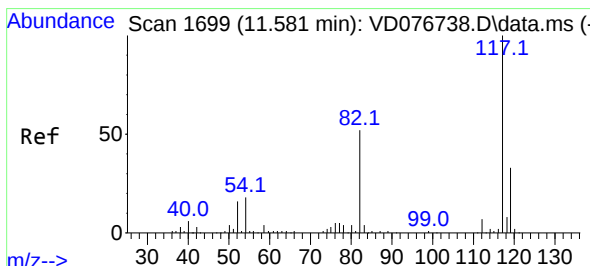
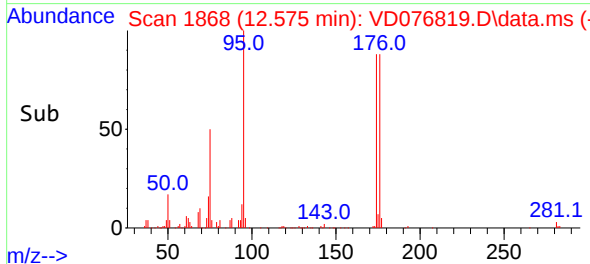
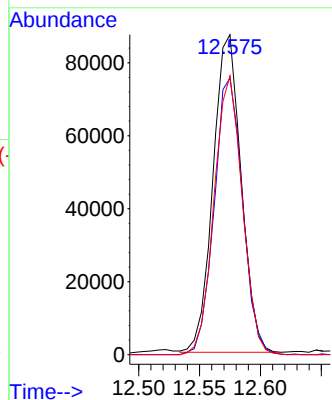
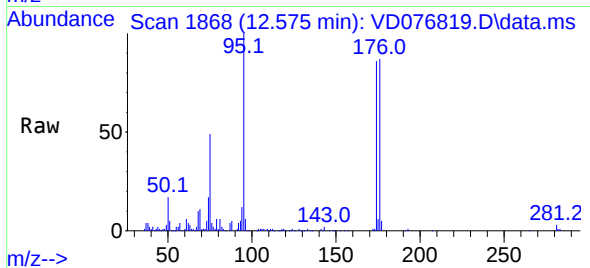
BUILDING-A-8-(0-5)

Tgt Ion: 95 Resp: 13964  
Ion Ratio Lower Upper  
95 100  
174 88.1 0.0 201.8  
176 87.8 0.0 191.8

Manual Integrations

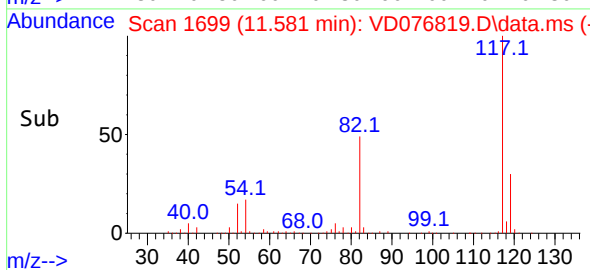
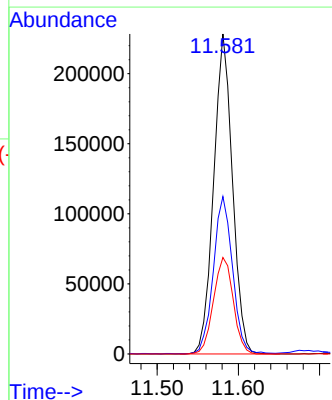
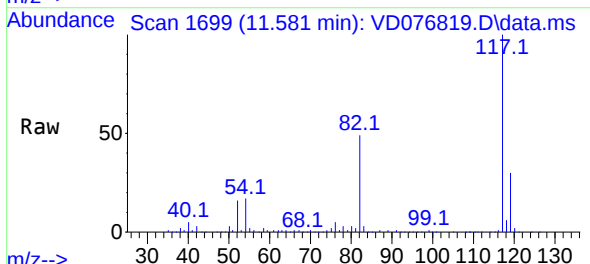
APPROVED

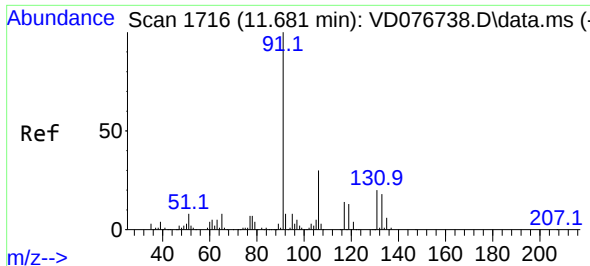
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

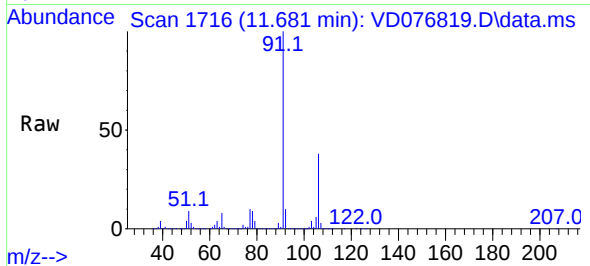
Tgt Ion:117 Resp: 366432  
Ion Ratio Lower Upper  
117 100  
82 49.1 38.3 57.5  
119 30.2 25.0 37.4





#67  
Ethyl Benzene  
Concen: 1002.306 ug/l  
RT: 11.681 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

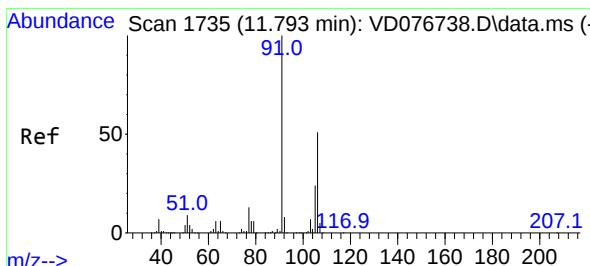
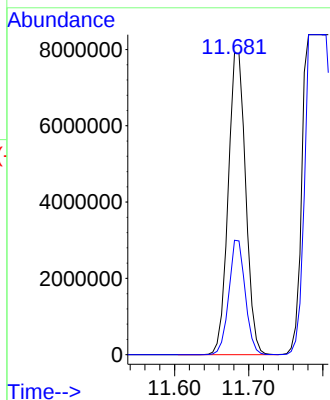
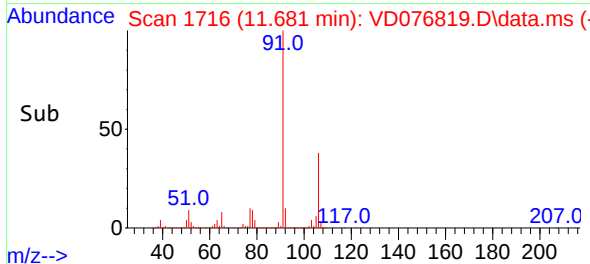
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



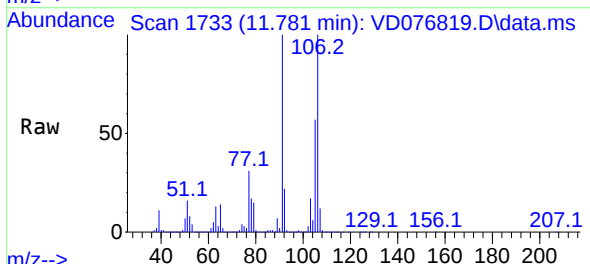
Tgt Ion: 91 Resp:12972544  
Ion Ratio Lower Upper  
91 100  
106 37.9 26.5 39.7

Manual Integrations  
APPROVED

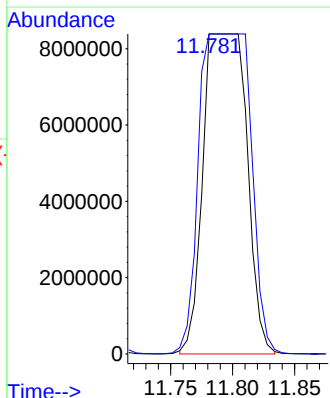
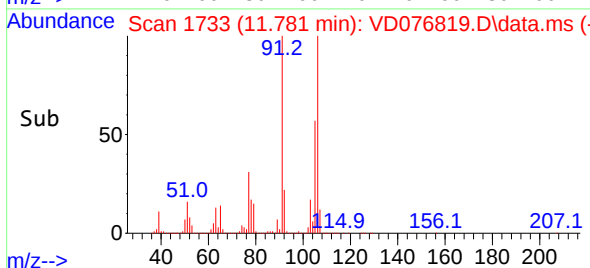
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023

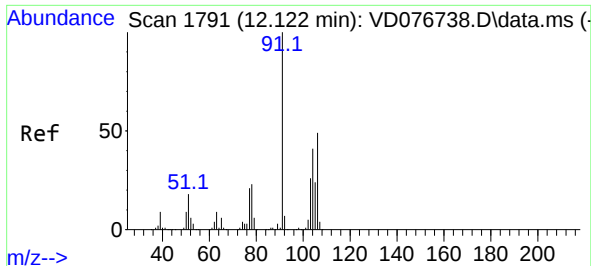


#68  
m/p-Xylenes  
Concen: 4126.836 ug/l m  
RT: 11.781 min Scan# 1733  
Delta R.T. -0.012 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32



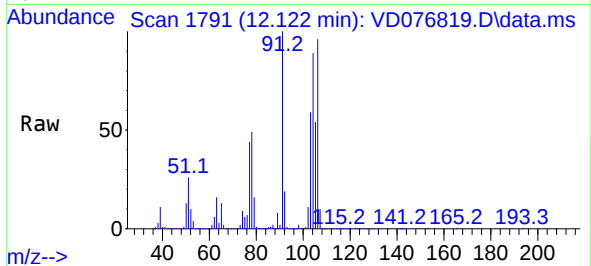
Tgt Ion:106 Resp:20513451  
Ion Ratio Lower Upper  
106 100  
91 63.2 147.0 220.6#





#69  
o-Xylene  
Concen: 2707.416 ug/l  
RT: 12.122 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

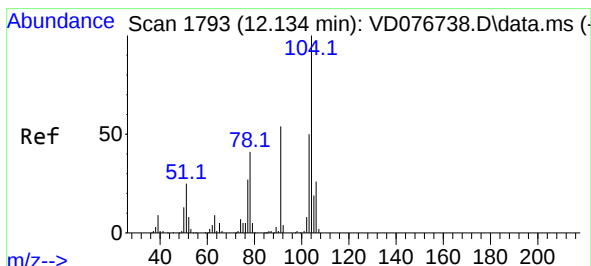
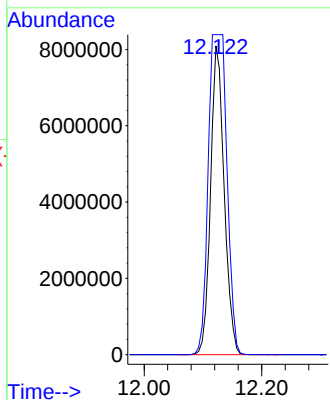
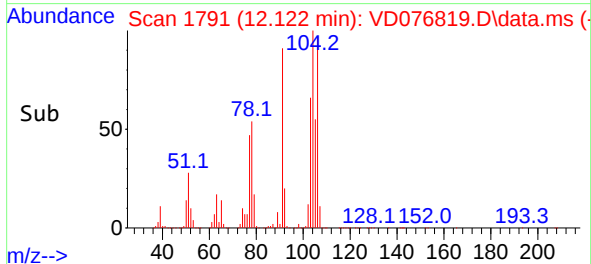
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



Tgt Ion:106 Resp:13014018  
Ion Ratio Lower Upper  
106 100  
91 142.7 97.9 293.6

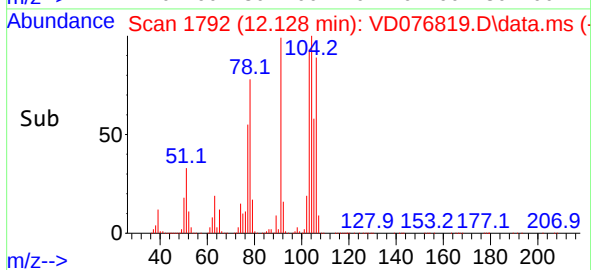
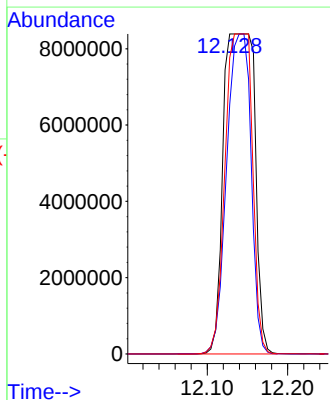
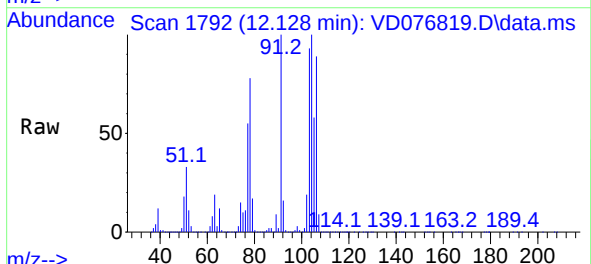
Manual Integrations  
APPROVED

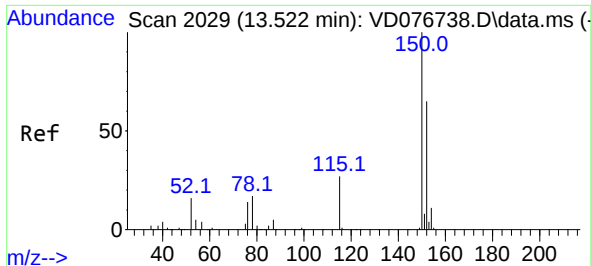
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023



#70  
Styrene  
Concen: 2699.428 ug/l m  
RT: 12.128 min Scan# 1792  
Delta R.T. -0.006 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

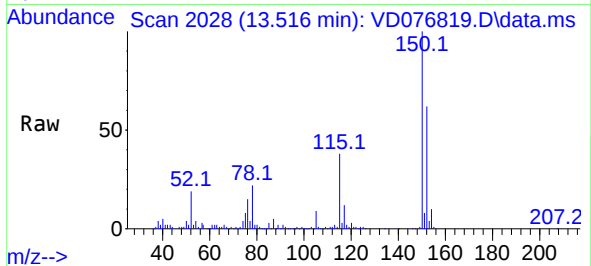
Tgt Ion:104 Resp:22714569  
Ion Ratio Lower Upper  
104 100  
78 0.0 33.2 49.8#  
103 0.0 43.6 65.4#





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

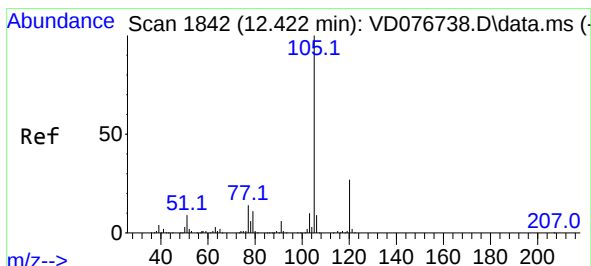
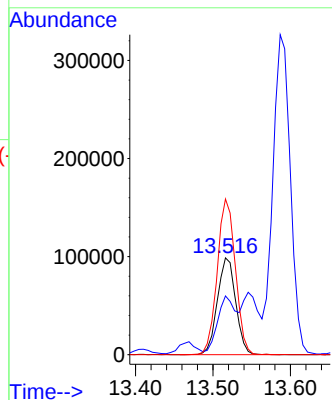
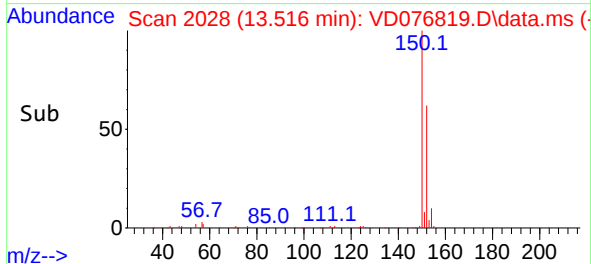
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



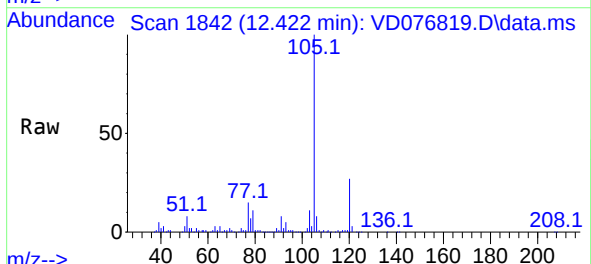
Tgt Ion:152 Resp: 161998  
Ion Ratio Lower Upper  
152 100  
115 0.0 27.1 81.3  
150 159.4 0.0 353.6

Manual Integrations  
APPROVED

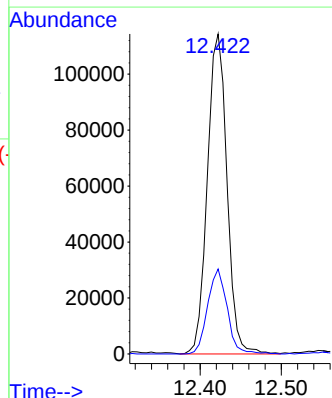
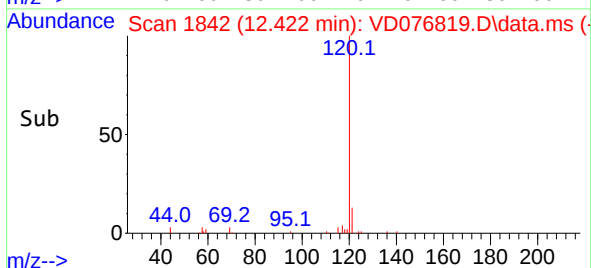
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023

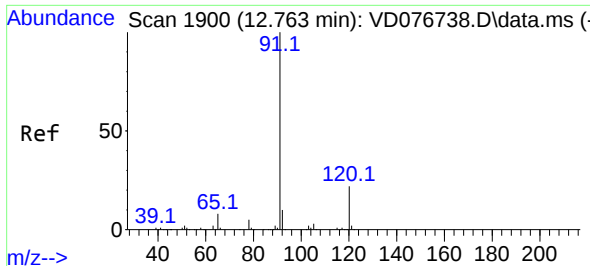


#73  
Isopropylbenzene  
Concen: 16.323 ug/l  
RT: 12.422 min Scan# 1842  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32



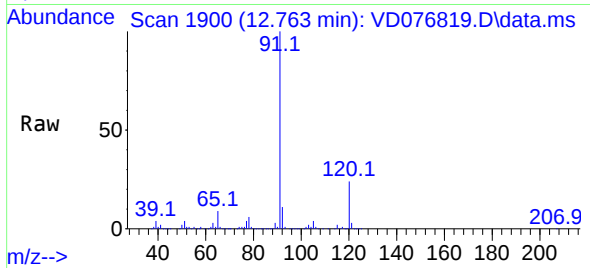
Tgt Ion:105 Resp: 191851  
Ion Ratio Lower Upper  
105 100  
120 26.4 14.3 42.9





#78  
n-propylbenzene  
Concen: 29.504 ug/l  
RT: 12.763 min Scan# 1900  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

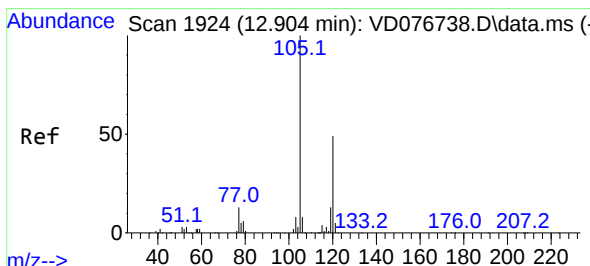
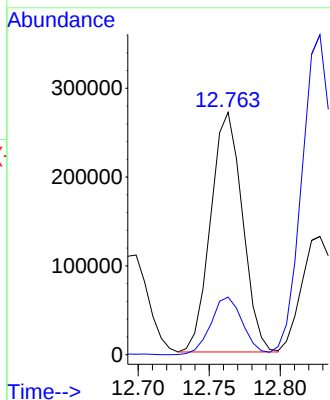
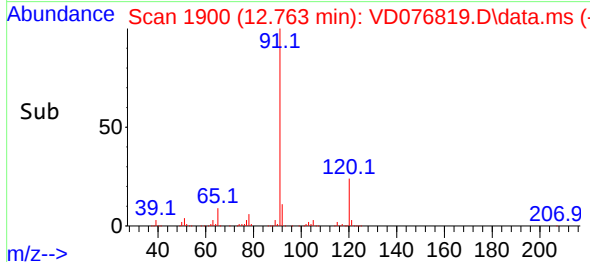
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



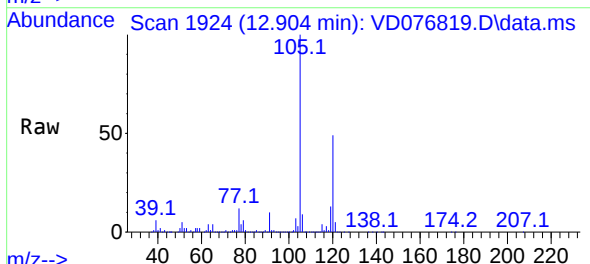
Tgt Ion: 91 Resp: 420390  
Ion Ratio Lower Upper  
91 100  
120 24.2 12.4 37.2

Manual Integrations  
APPROVED

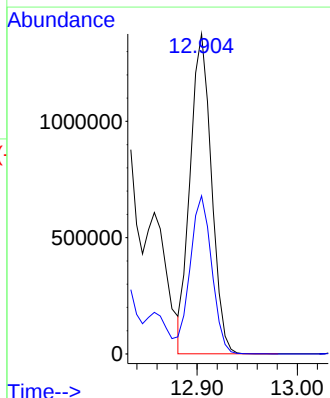
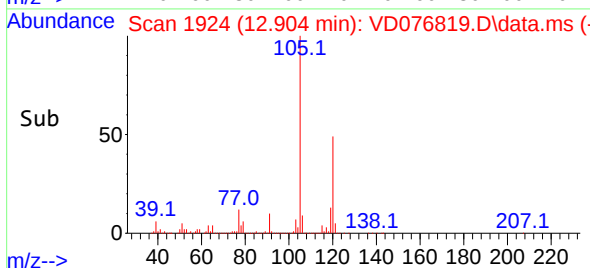
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023

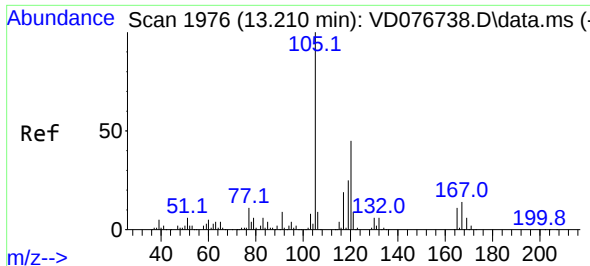


#80  
1,3,5-Trimethylbenzene  
Concen: 212.845 ug/l  
RT: 12.904 min Scan# 1924  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32



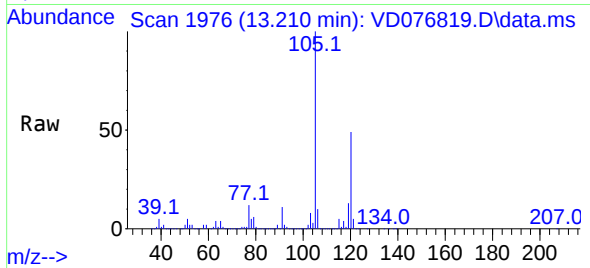
Tgt Ion:105 Resp: 2022796  
Ion Ratio Lower Upper  
105 100  
120 51.3 26.4 79.2





#84  
1,2,4-Trimethylbenzene  
Concen: 746.891 ug/l  
RT: 13.210 min Scan# 1976  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32

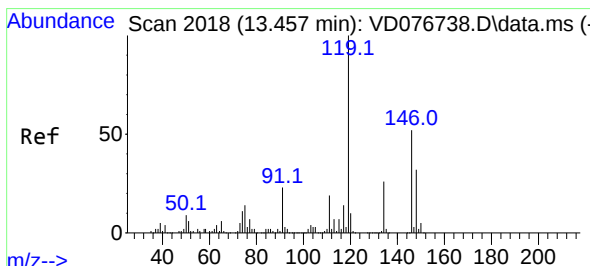
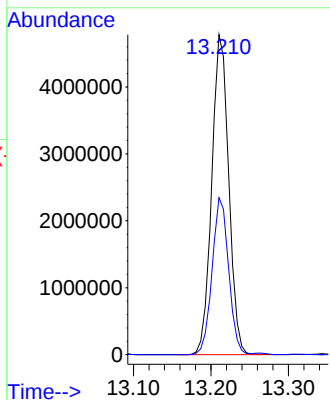
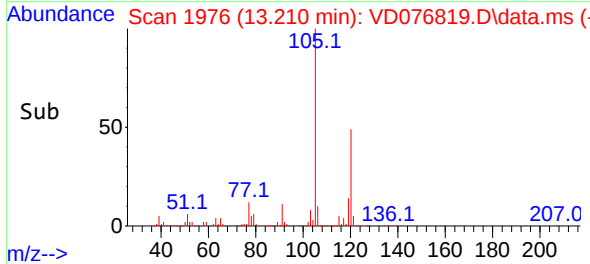
Instrument :  
MSVOA\_D  
ClientSampleId :  
BUILDING-A-8-(0-5)



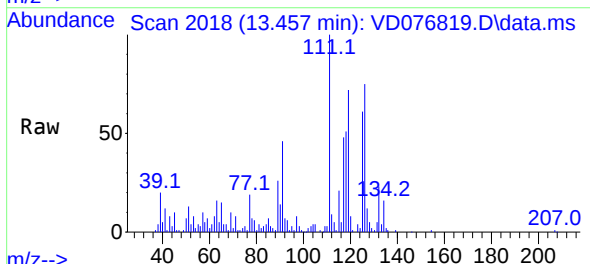
Tgt Ion:105 Resp: 7253592  
Ion Ratio Lower Upper  
105 100  
120 47.8 24.3 72.9

Manual Integrations  
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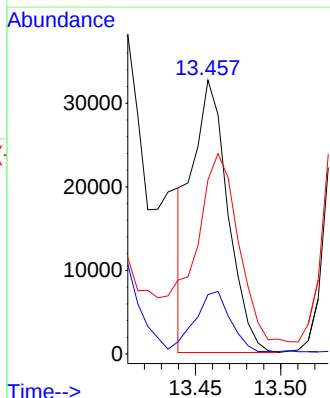
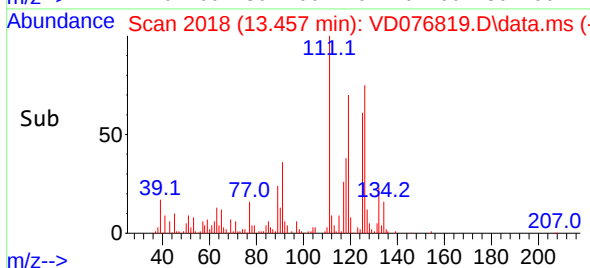
Reviewed By :Semsettin Yesilyurt 07/27/2023  
Supervised By :Mahesh Dadoda 07/27/2023

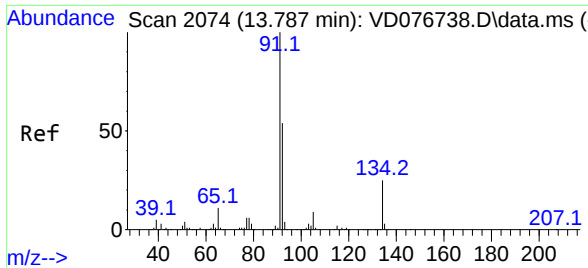


#86  
p-Isopropyltoluene  
Concen: 4.563 ug/l  
RT: 13.457 min Scan# 2018  
Delta R.T. 0.000 min  
Lab File: VD076819.D  
Acq: 26 Jul 2023 21:32



Tgt Ion:119 Resp: 48176  
Ion Ratio Lower Upper  
119 100  
134 21.8 14.2 42.6  
91 0.0 10.5 31.5





#89  
 n-Butylbenzene  
 Concen: 4.344 ug/l  
 RT: 13.787 min Scan# 2074  
 Delta R.T. -0.000 min  
 Lab File: VD076819.D  
 Acq: 26 Jul 2023 21:32

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BUILDING-A-8-(0-5)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 44878 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 47.3  | 26.5  | 79.5  |
| 134      | 0.0   | 13.8  | 41.3  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/27/2023  
 Supervised By :Mahesh Dadoda 07/27/2023

