

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010523\  
 Data File : VN076111.D  
 Acq On : 05 Jan 2023 15:15  
 Operator : JC\MD  
 Sample : 01019-03DL 4X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 33886DL

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/06/2023  
 Supervised By : Mahesh Dadoda 01/07/2023

Quant Time: Jan 05 23:49:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 8.236          | 168  | 329121     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.106          | 114  | 523308     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.871         | 117  | 451711     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.794         | 152  | 199324     | 50.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.588          | 65   | 173159     | 48.361  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 96.720% |        |          |
| 35) Dibromofluoromethane    | 8.177          | 113  | 158124     | 48.792  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 97.580% |        |          |
| 50) Toluene-d8              | 10.571         | 98   | 603663     | 49.820  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 99.640% |        |          |
| 62) 4-Bromofluorobenzene    | 12.853         | 95   | 194293     | 48.413  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 96.820% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 16) Acetone                 | 4.459          | 43   | 3107m      | 2.517   | ug/l   |          |
| 19) Methyl tert-butyl Ether | 5.818          | 73   | 3404       | 0.354   | ug/l   | 95       |
| 30) Chloroform              | 7.971          | 83   | 47966      | 7.712   | ug/l   | 95       |
| 40) Benzene                 | 8.612          | 78   | 70516      | 5.309   | ug/l   | 99       |
| 47) Bromodichloromethane    | 9.894          | 83   | 9701       | 2.063   | ug/l # | 97       |
| 52) Toluene                 | 10.635         | 92   | 215451     | 24.906  | ug/l   | 100      |
| 67) Ethyl Benzene           | 11.965         | 91   | 52403      | 3.349   | ug/l   | 99       |
| 68) m/p-Xylenes             | 12.071         | 106  | 108491     | 17.518  | ug/l   | 97       |
| 69) o-Xylene                | 12.400         | 106  | 81130      | 13.237  | ug/l   | 96       |
| 73) Isopropylbenzene        | 12.694         | 105  | 6263       | 0.435   | ug/l   | 94       |
| 78) n-propylbenzene         | 13.041         | 91   | 8143       | 0.513   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 13.176         | 105  | 37700      | 3.127   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.482         | 105  | 101525     | 8.489   | ug/l   | 100      |
| 95) Naphthalene             | 15.641         | 128  | 12944      | 3.319   | ug/l   | 97       |
| -----                       |                |      |            |         |        |          |

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

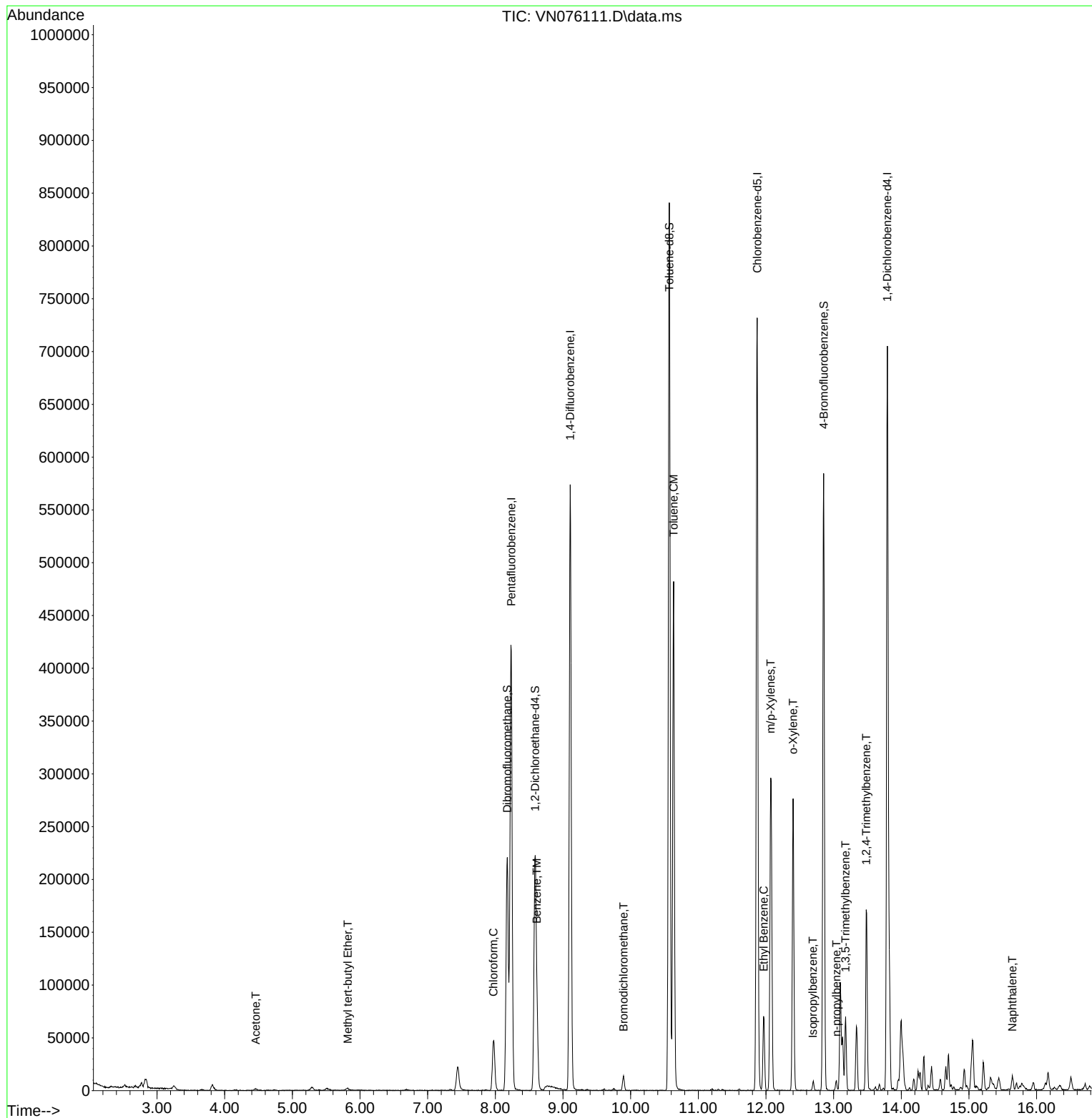
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010523\  
Data File : VN076111.D  
Acq On : 05 Jan 2023 15:15  
Operator : JC\MD  
Sample : 01019-03DL 4X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 11 Sample Multiplier: 1

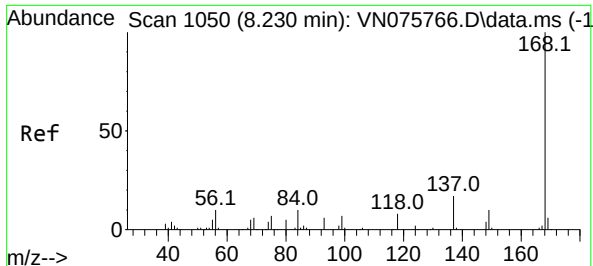
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL

Manual Integrations  
APPROVED

Reviewed By : John Carlone 01/06/2023  
Supervised By : Mahesh Dadoda 01/07/2023

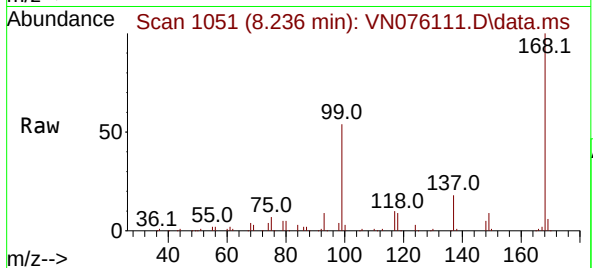
Quant Time: Jan 05 23:49:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 14 13:03:41 2022  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 1050  
Delta R.T. 0.006 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

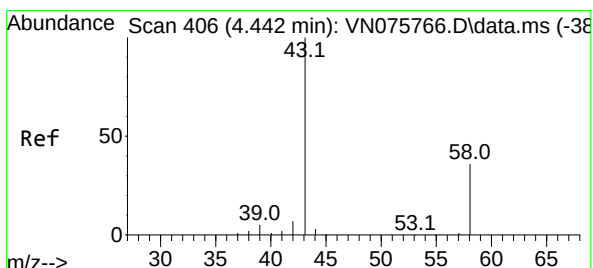
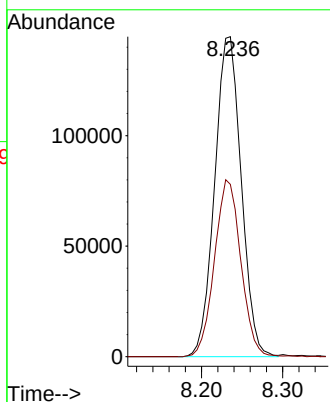
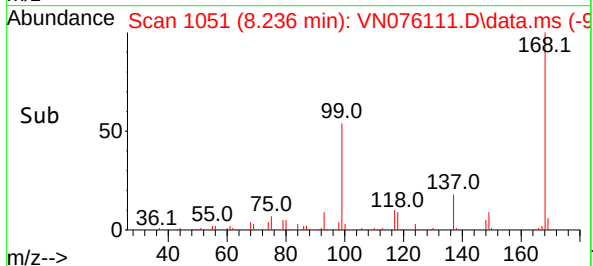
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL



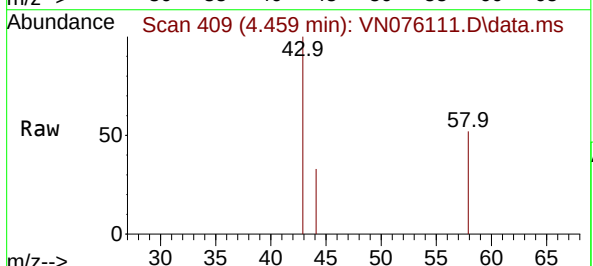
Tgt Ion:168 Resp: 32912  
Ion Ratio Lower Upper  
168 100  
99 53.9 44.2 66.4

Manual Integrations  
APPROVED

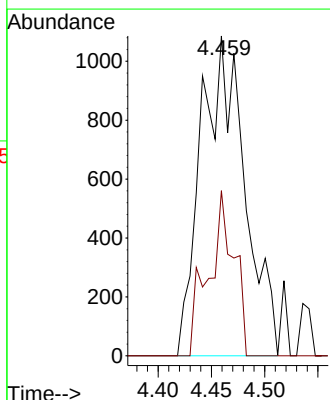
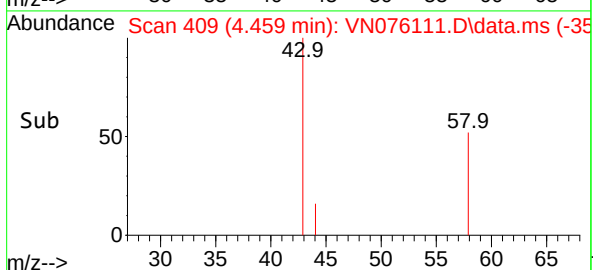
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023

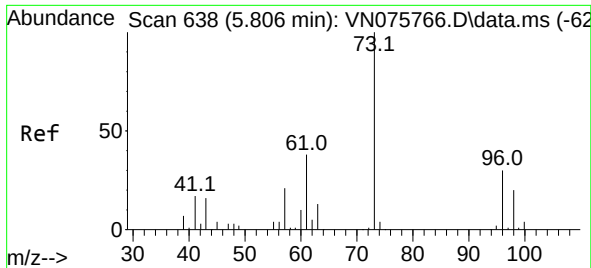


#16  
Acetone  
Concen: 2.517 ug/l m  
RT: 4.459 min Scan# 409  
Delta R.T. 0.018 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15



Tgt Ion: 43 Resp: 3107  
Ion Ratio Lower Upper  
43 100  
58 51.7 28.6 43.0#





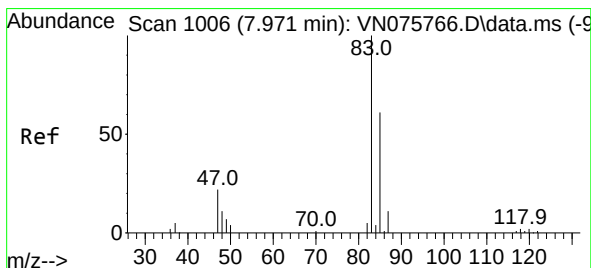
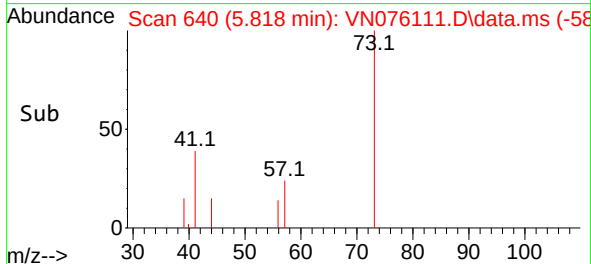
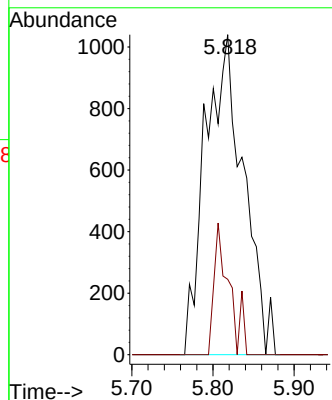
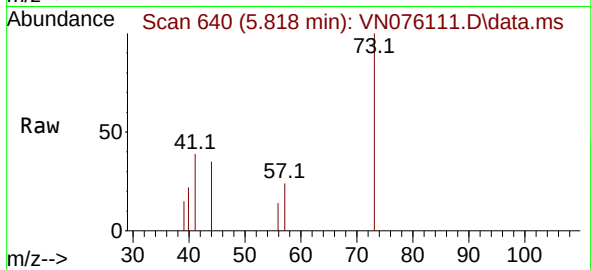
#19  
Methyl tert-butyl Ether  
Concen: 0.354 ug/l  
RT: 5.818 min Scan# 640  
Delta R.T. 0.012 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL

Tgt Ion: 73 Resp: 3404  
Ion Ratio Lower Upper  
73 100  
57 23.6 17.1 25.7

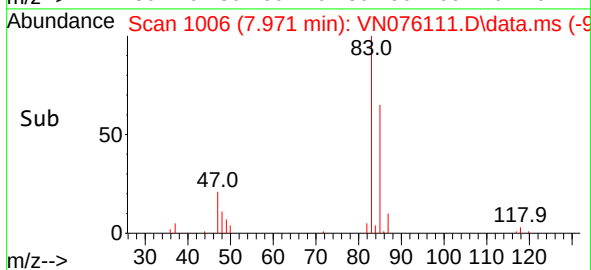
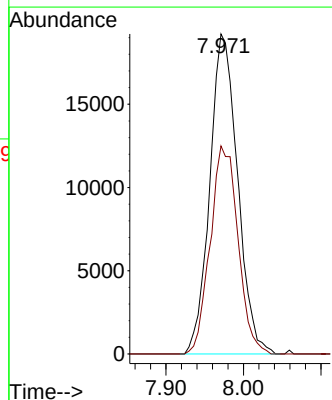
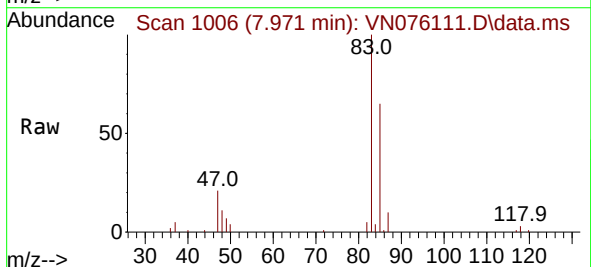
Manual Integrations  
APPROVED

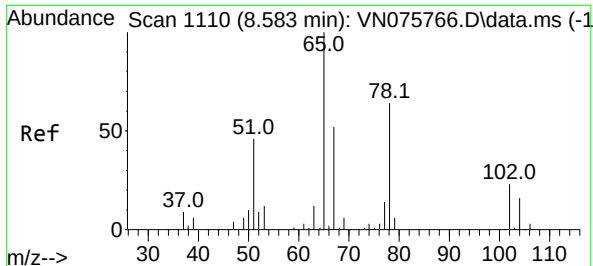
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023



#30  
Chloroform  
Concen: 7.712 ug/l  
RT: 7.971 min Scan# 1006  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

Tgt Ion: 83 Resp: 47966  
Ion Ratio Lower Upper  
83 100  
85 65.0 49.1 73.7





#33

1,2-Dichloroethane-d4

Concen: 48.361 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076111.D

Acq: 05 Jan 2023 15:15

Instrument :

MSVOA\_N

ClientSampleId :

33886DL

Tgt Ion: 65 Resp: 173159

Ion Ratio Lower Upper

65 100

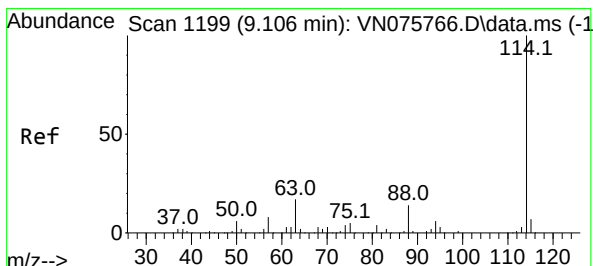
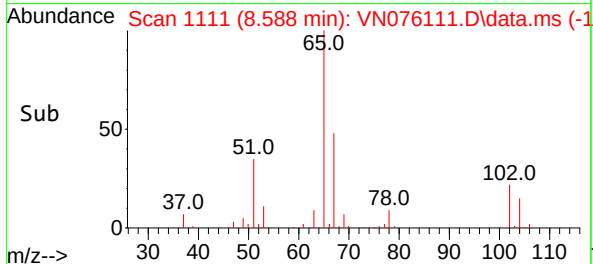
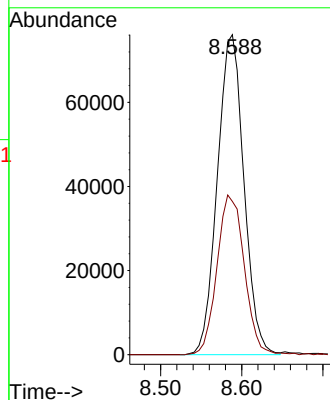
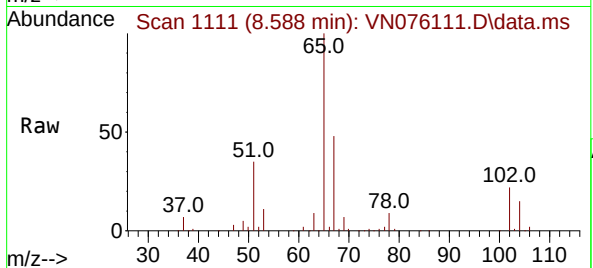
67 51.3 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/06/2023

Supervised By :Mahesh Dadoda 01/07/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076111.D

Acq: 05 Jan 2023 15:15

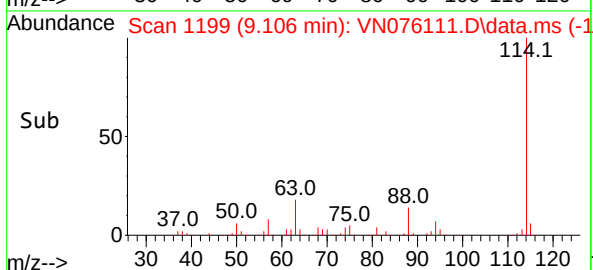
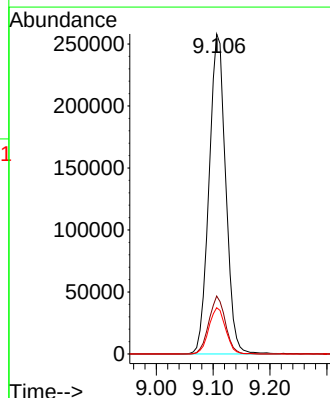
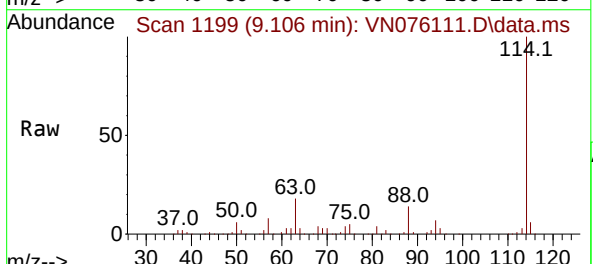
Tgt Ion:114 Resp: 523308

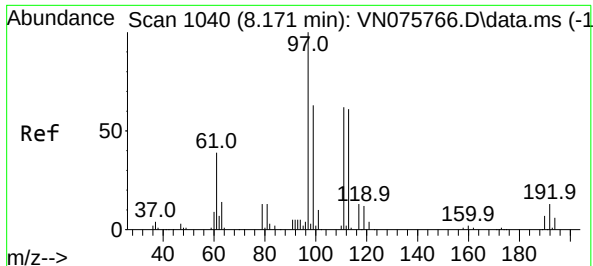
Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.4

88 14.4 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.792 ug/l

RT: 8.177 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VN076111.D

Acq: 05 Jan 2023 15:15

Instrument :

MSVOA\_N

ClientSampleId :

33886DL

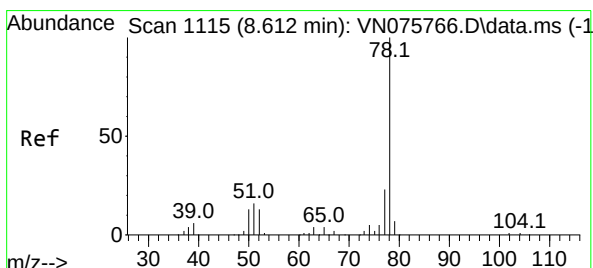
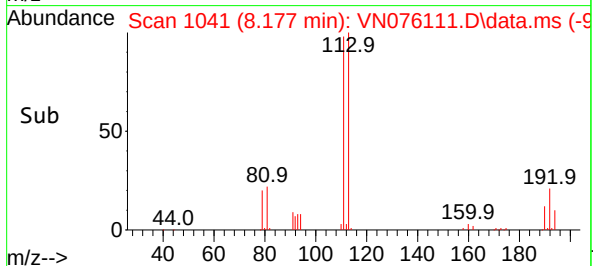
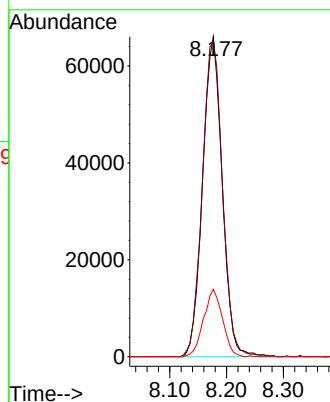
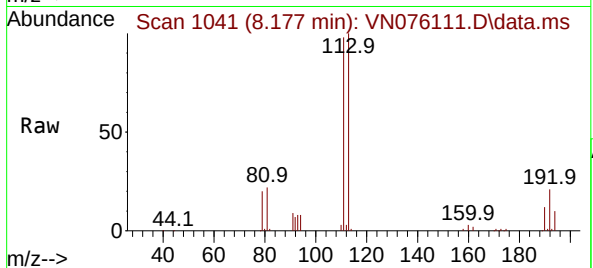
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 158124 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.8 | 83.4  | 125.2  |
| 192       | 20.3  | 16.1  | 24.1   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/06/2023

Supervised By :Mahesh Dadoda 01/07/2023



#40

Benzene

Concen: 5.309 ug/l

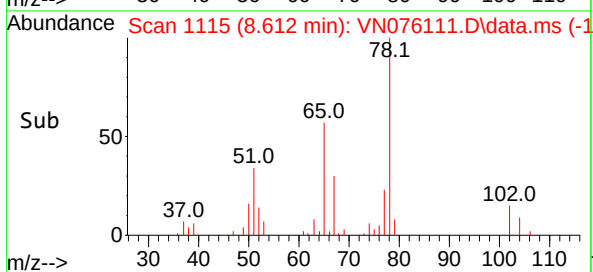
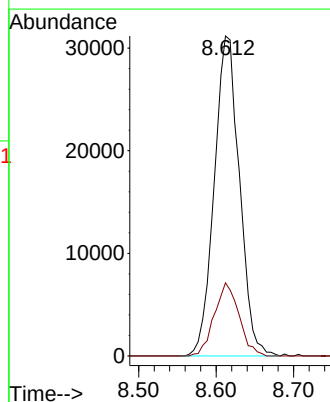
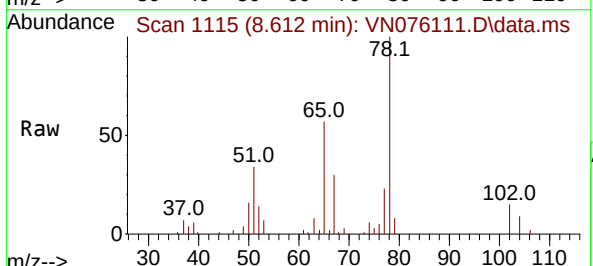
RT: 8.612 min Scan# 1115

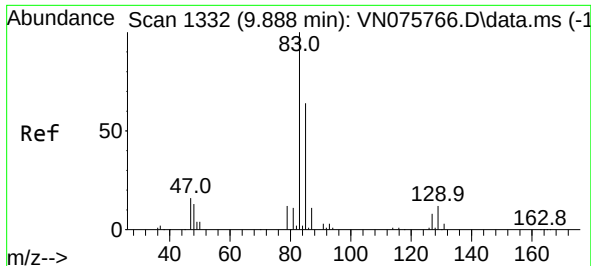
Delta R.T. 0.000 min

Lab File: VN076111.D

Acq: 05 Jan 2023 15:15

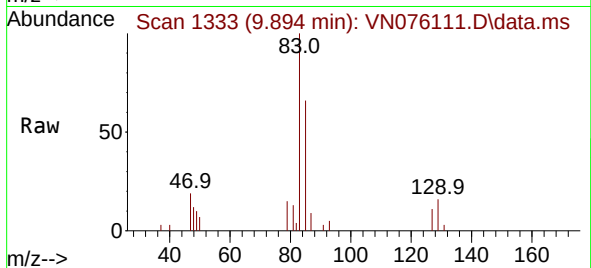
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 78    | Resp: | 70516 |
| Ion Ratio | Lower | Upper |       |
| 78        | 100   |       |       |
| 77        | 22.8  | 18.5  | 27.7  |





#47  
Bromodichloromethane  
Concen: 2.063 ug/l  
RT: 9.894 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

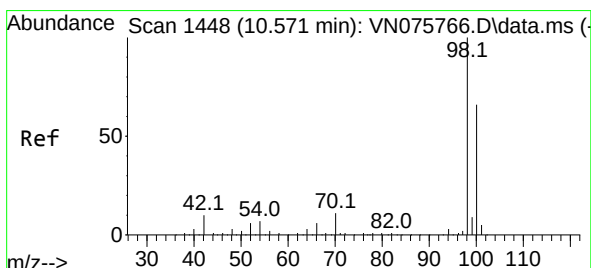
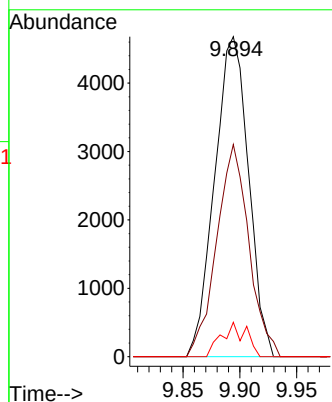
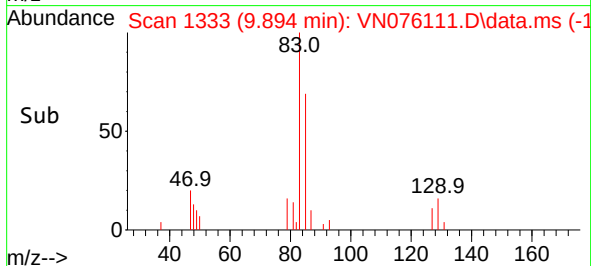
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL



Tgt Ion: 83 Resp: 970  
Ion Ratio Lower Upper  
83 100  
85 66.3 51.5 77.3  
127 10.8 6.6 10.0

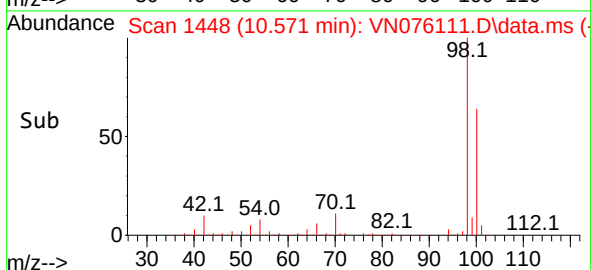
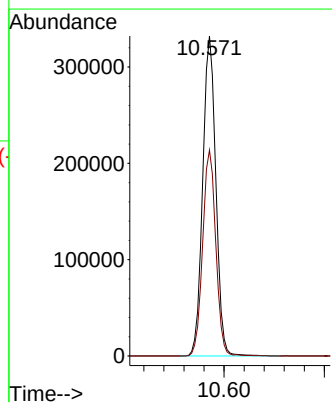
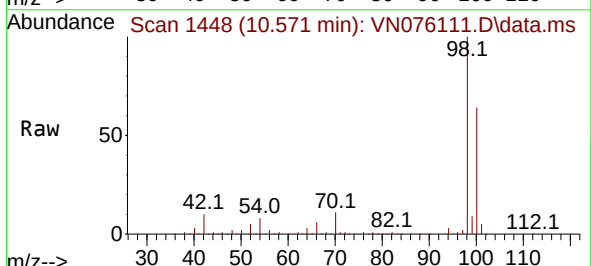
Manual Integrations  
APPROVED

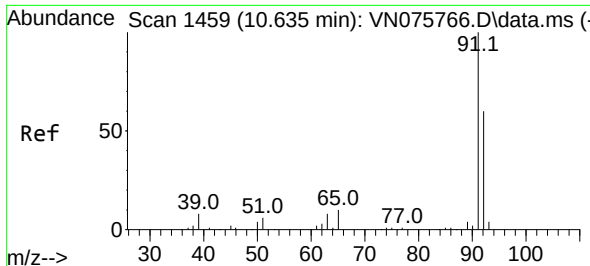
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023



#50  
Toluene-d8  
Concen: 49.820 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

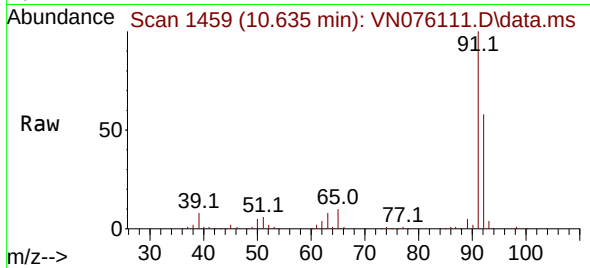
Tgt Ion: 98 Resp: 603663  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.1 78.1





#52  
Toluene  
Concen: 24.906 ug/l  
RT: 10.635 min Scan# 1459  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

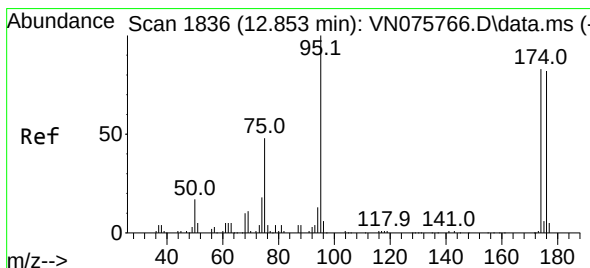
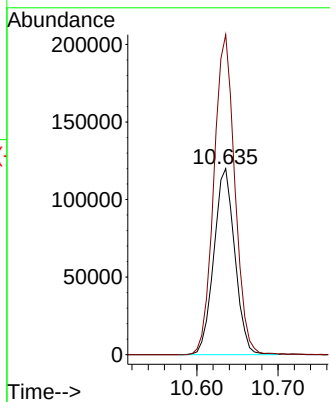
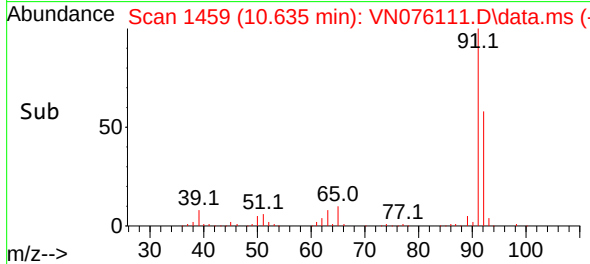
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL



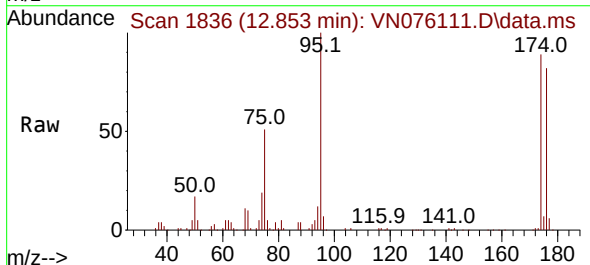
Tgt Ion: 92 Resp: 21545  
Ion Ratio Lower Upper  
92 100  
91 172.1 137.3 205.9

Manual Integrations  
APPROVED

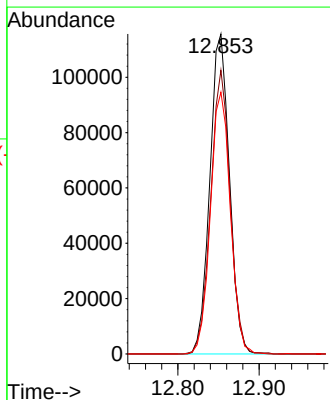
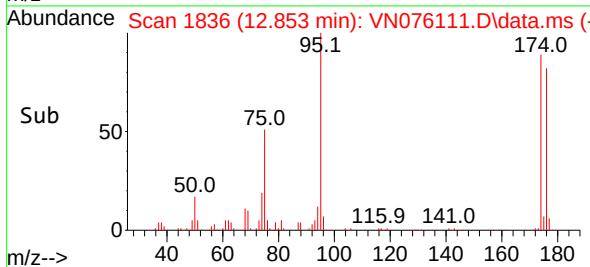
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023



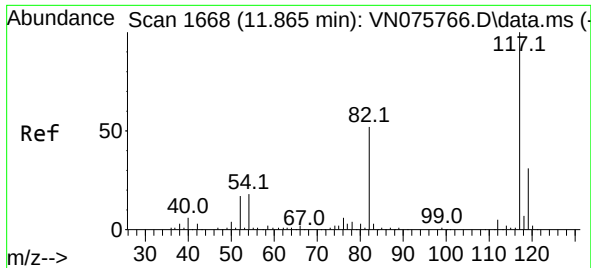
#62  
4-Bromofluorobenzene  
Concen: 48.413 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15



Tgt Ion: 95 Resp: 194293  
Ion Ratio Lower Upper  
95 100  
174 88.2 0.0 171.6  
176 83.2 0.0 169.2

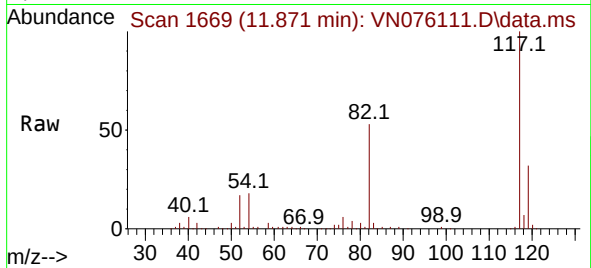






#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. 0.006 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

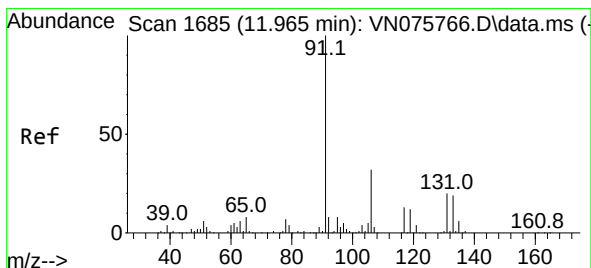
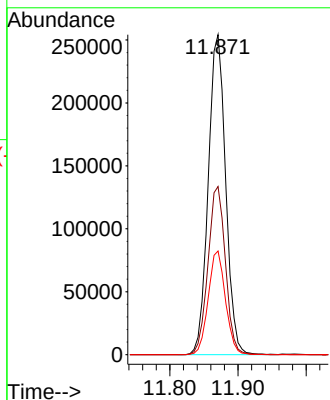
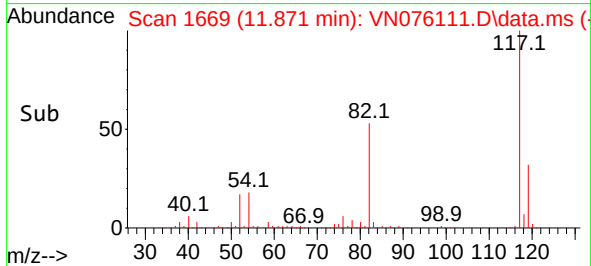
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL



Tgt Ion: 117 Resp: 45171  
Ion Ratio Lower Upper  
117 100  
82 52.5 41.3 61.9  
119 32.4 24.6 37.0

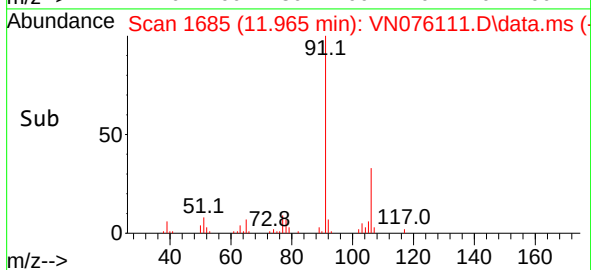
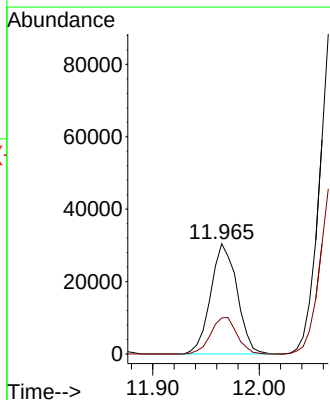
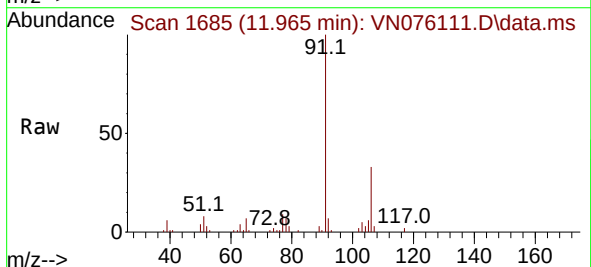
Manual Integrations  
APPROVED

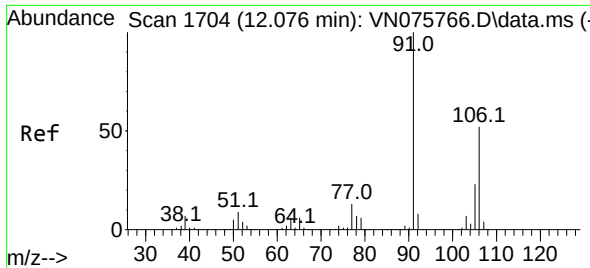
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023



#67  
Ethyl Benzene  
Concen: 3.349 ug/l  
RT: 11.965 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

Tgt Ion: 91 Resp: 52403  
Ion Ratio Lower Upper  
91 100  
106 32.6 25.7 38.5





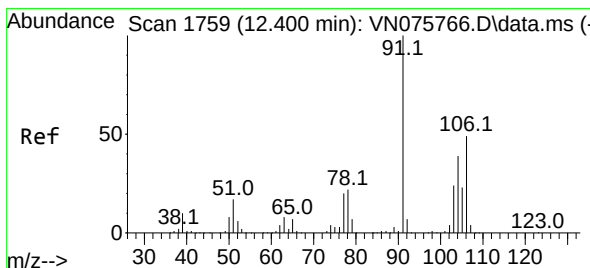
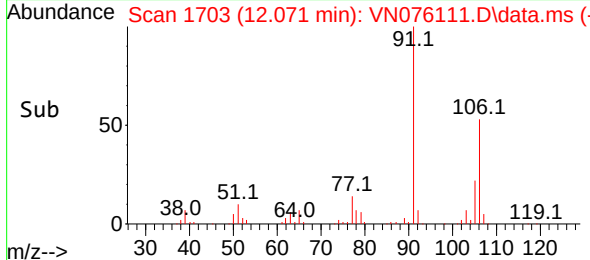
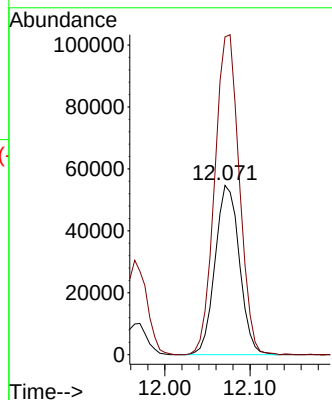
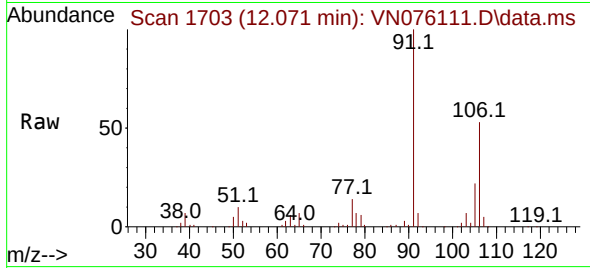
#68  
m/p-Xylenes  
Concen: 17.518 ug/l  
RT: 12.071 min Scan# 1704  
Delta R.T. -0.006 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL

Tgt Ion:106 Resp: 10849  
Ion Ratio Lower Upper  
106 100  
91 191.5 156.6 235.0

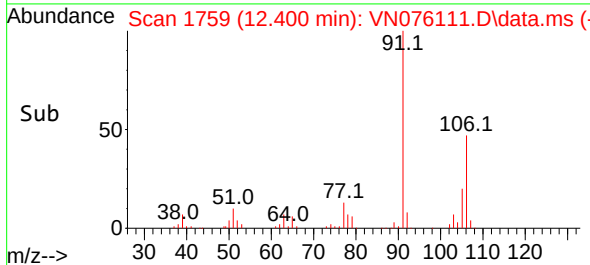
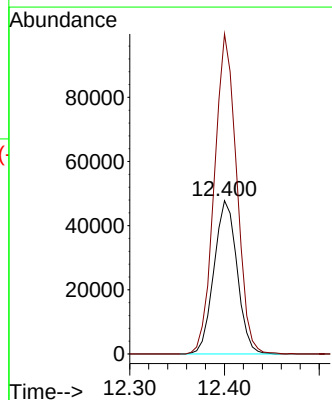
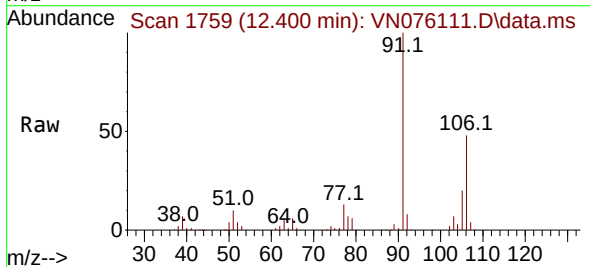
Manual Integrations  
APPROVED

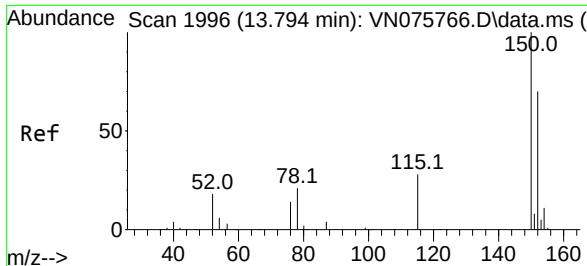
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023



#69  
o-Xylene  
Concen: 13.237 ug/l  
RT: 12.400 min Scan# 1759  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

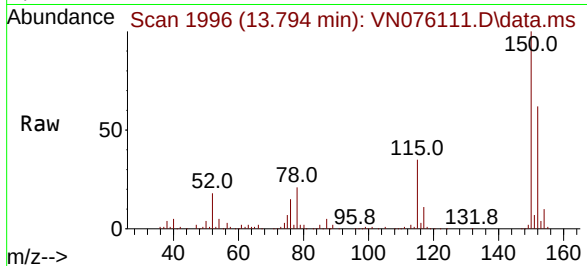
Tgt Ion:106 Resp: 81130  
Ion Ratio Lower Upper  
106 100  
91 201.7 103.8 311.6





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 199324  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

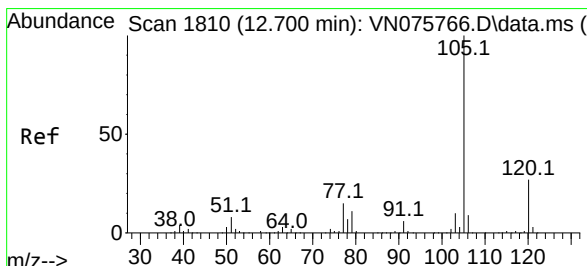
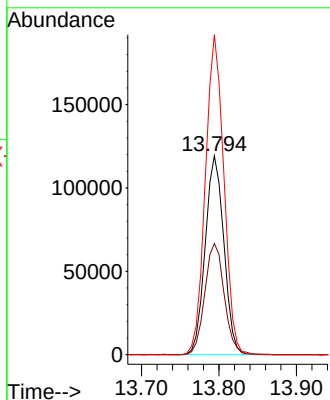
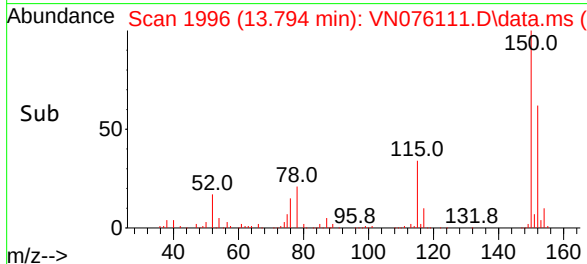
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL



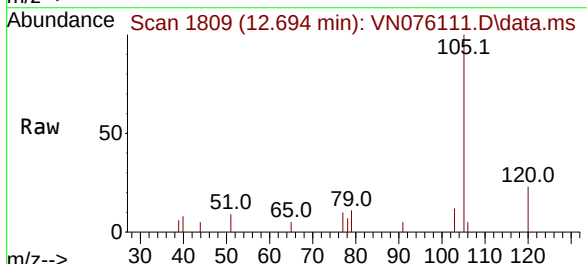
Tgt Ion:152 Resp: 199324  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.1 87.4  
150 159.1 0.0 347.0

Manual Integrations  
APPROVED

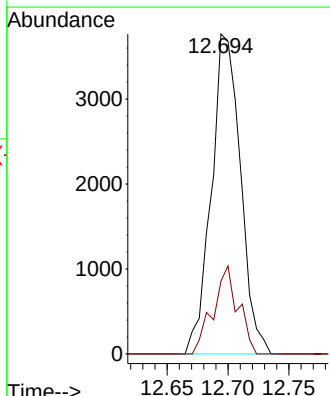
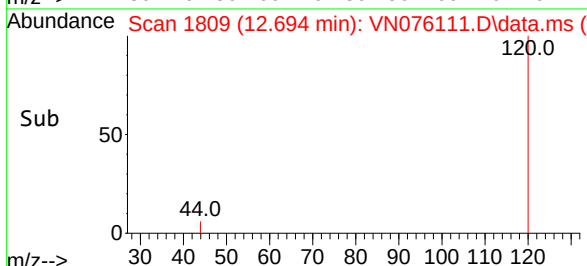
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023

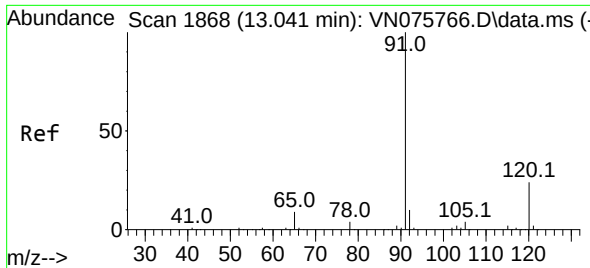


#73  
Isopropylbenzene  
Concen: 0.435 ug/l  
RT: 12.694 min Scan# 1809  
Delta R.T. -0.006 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15



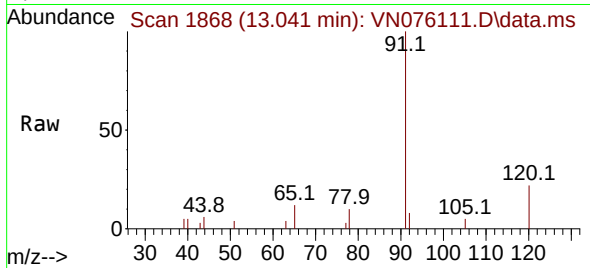
Tgt Ion:105 Resp: 6263  
Ion Ratio Lower Upper  
105 100  
120 23.7 13.4 40.2





#78  
n-propylbenzene  
Concen: 0.513 ug/l  
RT: 13.041 min Scan# 1868  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15

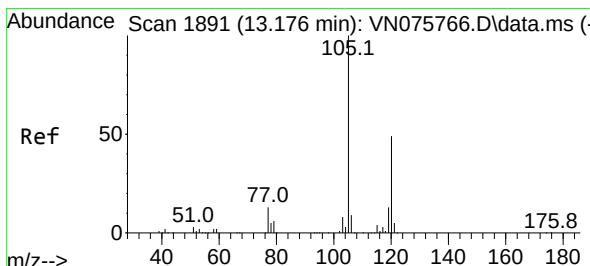
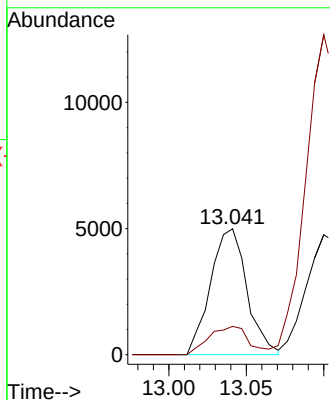
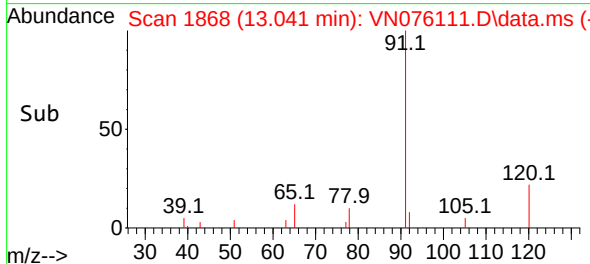
Instrument :  
MSVOA\_N  
ClientSampleId :  
33886DL



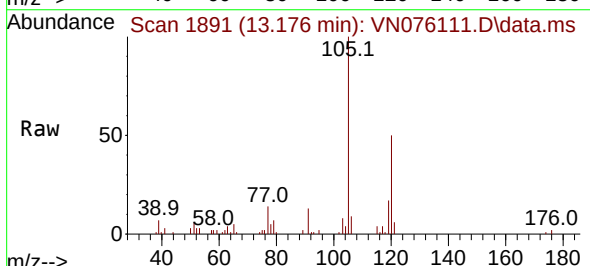
Tgt Ion: 91 Resp: 814  
Ion Ratio Lower Upper  
91 100  
120 24.7 12.0 36.1

Manual Integrations  
APPROVED

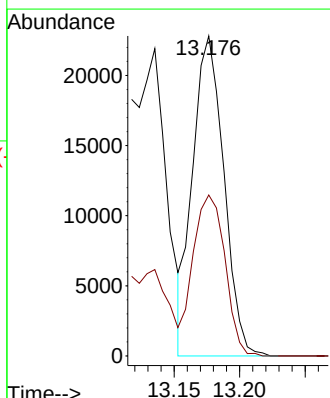
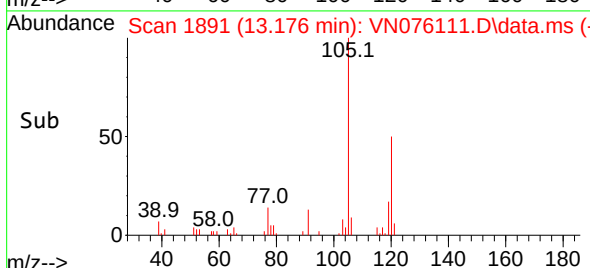
Reviewed By :John Carlone 01/06/2023  
Supervised By :Mahesh Dadoda 01/07/2023

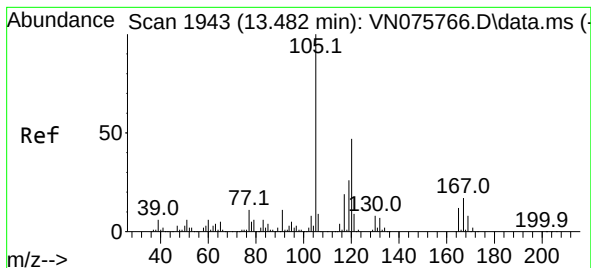


#80  
1,3,5-Trimethylbenzene  
Concen: 3.127 ug/l  
RT: 13.176 min Scan# 1891  
Delta R.T. 0.000 min  
Lab File: VN076111.D  
Acq: 05 Jan 2023 15:15



Tgt Ion:105 Resp: 37700  
Ion Ratio Lower Upper  
105 100  
120 51.7 24.7 74.1





#84

1,2,4-Trimethylbenzene

Concen: 8.489 ug/l

RT: 13.482 min Scan# 1943

Delta R.T. 0.000 min

Lab File: VN076111.D

Acq: 05 Jan 2023 15:15

Instrument :

MSVOA\_N

ClientSampleId :

33886DL

Tgt Ion:105 Resp: 10152

Ion Ratio Lower Upper

105 100

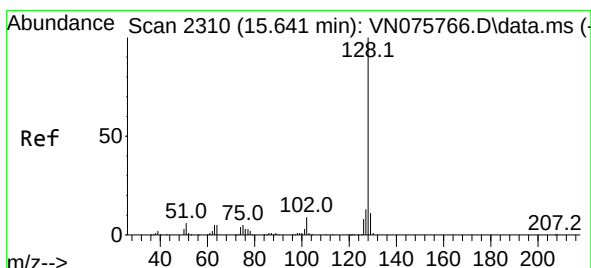
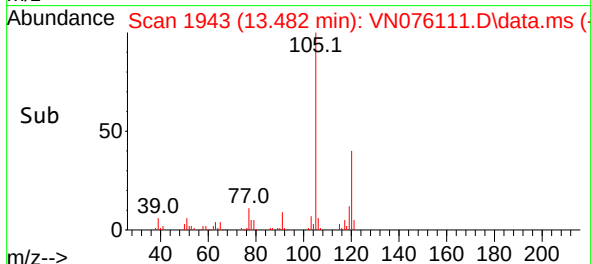
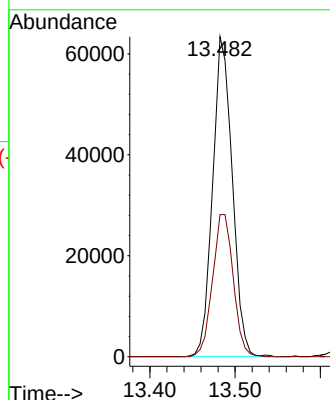
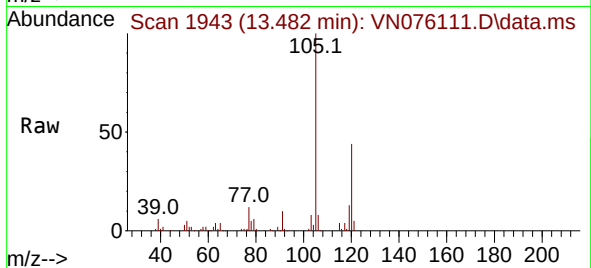
120 46.7 23.3 69.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/06/2023

Supervised By :Mahesh Dadoda 01/07/2023



#95

Naphthalene

Concen: 3.319 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. -0.000 min

Lab File: VN076111.D

Acq: 05 Jan 2023 15:15

Tgt Ion:128 Resp: 12944

Ion Ratio Lower Upper

128 100

127 11.2 10.4 15.6

129 11.5 8.7 13.1

