

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092920\  
 Data File : VX018645.D  
 Acq On : 29 Sep 2020 10:11  
 Operator : JC/SP  
 Sample : L4135-02  
 Misc : 25.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BG0Q6

Quant Time: Oct 05 01:58:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SOMXTR092820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 30 04:47:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.83  | 114  | 353117   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.10 | 117  | 328669   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 158772   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 67481    | 3.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 73.00%  |
| 7) Chloroethane-d5             | 1.70   | 69    | 59033    | 3.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 75.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.34   | 63    | 118375   | 2.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 58.00%# |
| 20) 2-Butanone-d5              | 4.55   | 46    | 202306   | 42.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 85.88%  |
| 24) Chloroform-d               | 5.14   | 84    | 161183   | 3.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 73.60%  |
| 26) 1,2-Dichloroethane-d4      | 6.03   | 65    | 88440    | 3.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 69.40%# |
| 32) Benzene-d6                 | 6.04   | 84    | 303344   | 4.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 80.00%  |
| 36) 1,2-Dichloropropane-d6     | 7.37   | 67    | 92996    | 4.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 80.40%  |
| 41) Toluene-d8                 | 8.70   | 98    | 289850   | 3.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 76.80%  |
| 45) trans-1,3-Dichloropropene- | 8.99   | 79    | 38174    | 3.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 74.20%  |
| 48) 2-Hexanone-d5              | 9.43   | 63    | 162984   | 44.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 88.54%  |
| 59) 1,1,2,2-Tetrachloroethane- | 11.23  | 84    | 69286    | 4.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 80.60%  |
| 65) 1,2-Dichlorobenzene-d4     | 12.36  | 152   | 104184   | 4.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 80.40%  |

## Target Compounds

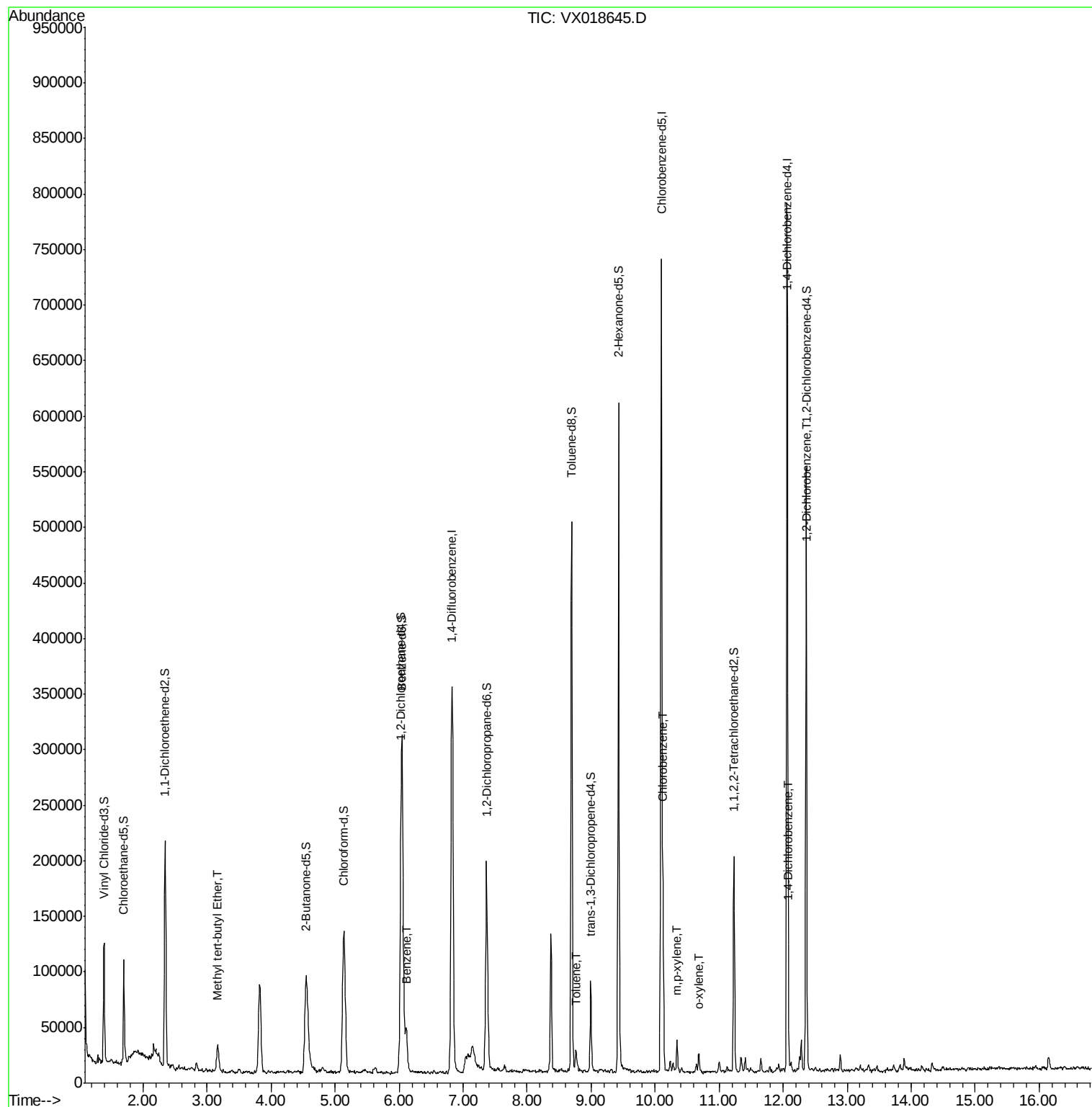
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 17) Methyl tert-butyl Ether | 3.17  | 73   | 27084    | 0.706 | ug/L   | 95     |
| 33) Benzene                 | 6.11  | 78   | 48867    | 0.771 | ug/L   | 100    |
| 42) Toluene                 | 8.76  | 91   | 12488    | 0.182 | ug/L   | 89     |
| 53) Chlorobenzene           | 10.12 | 112  | 72380    | 1.601 | ug/L   | 91     |
| 55) m,p-xylene              | 10.34 | 106  | 6072     | 0.213 | ug/L   | 93     |
| 56) o-xylene                | 10.68 | 106  | 3219     | 0.119 | ug/L   | 69     |
| 64) 1,4-Dichlorobenzene     | 12.09 | 146  | 7375     | 0.212 | ug/L # | 89     |
| 66) 1,2-Dichlorobenzene     | 12.37 | 146  | 4877     | 0.152 | ug/L # | 85     |

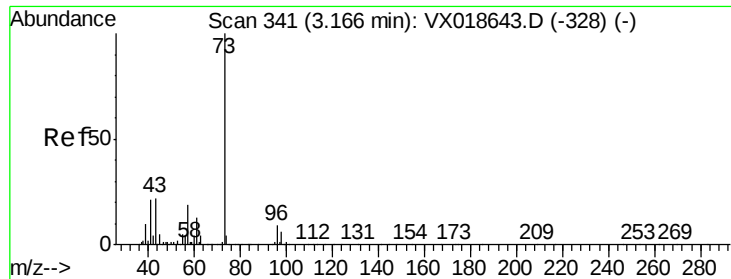
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\SOMXTR092820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Sep 30 04:47:32 2020  
Response via : Initial Calibration

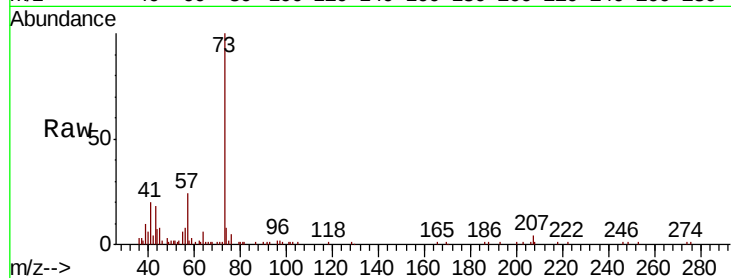




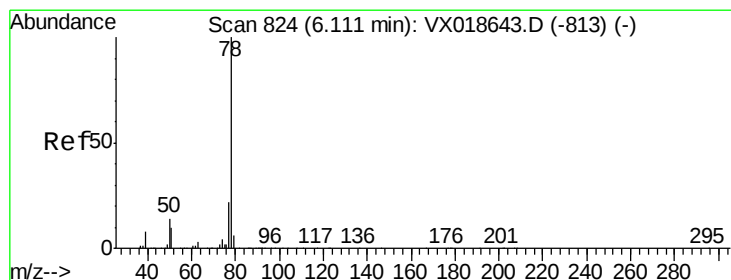
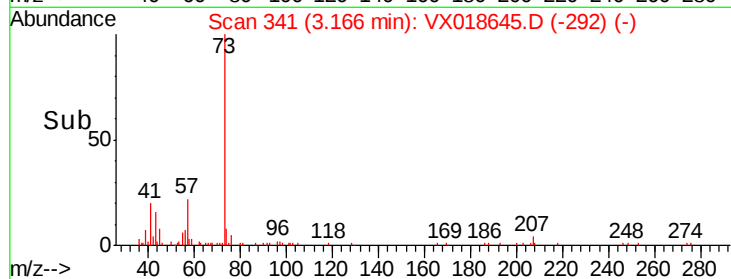
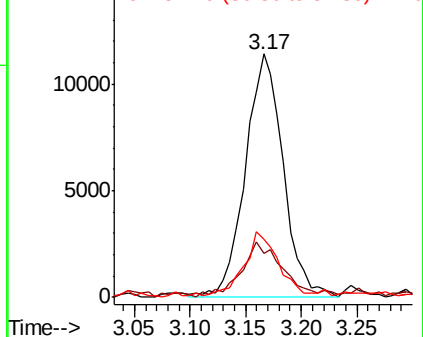
#17  
Methvl tert-butvl Ether  
Concen: 0.706 ug/L  
RT: 3.17 min Scan# 341  
Delta R.T. -0.00 min  
Lab File: VX018645.D  
Acq: 29 Sep 2020 10:11

Instrument :  
MSVOA\_X  
ClientSampleId :  
BG0Q6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 24.6  | 18.6  | 27.8  |
| 57      | 24.8  | 17.3  | 25.9  |

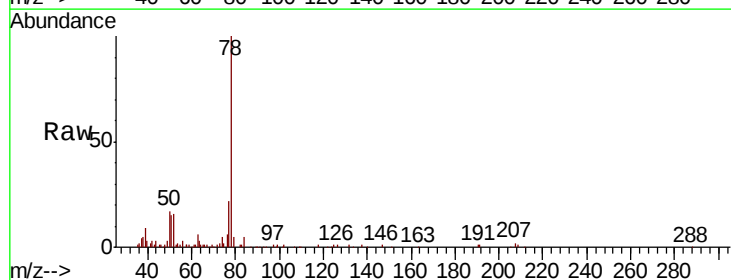


Abundance Ion 73.10 (72.80 to 73.80): VX0  
Ion 43.05 (42.75 to 43.75): VX0  
Ion 57.10 (56.80 to 57.80): VX0

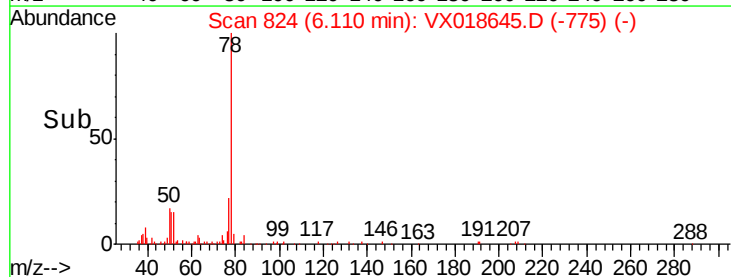
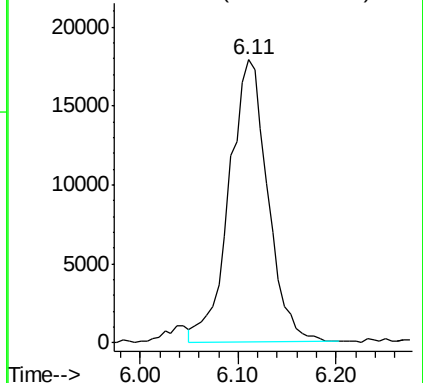


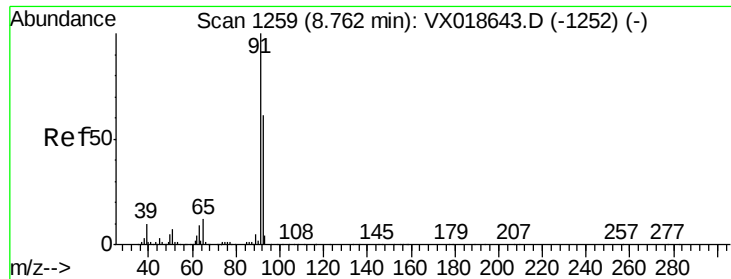
#33  
Benzene  
Concen: 0.771 ug/L  
RT: 6.11 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: VX018645.D  
Acq: 29 Sep 2020 10:11

Tgt Ion: 78 Resp: 48867



Abundance Ion 78.10 (77.80 to 78.80): VX0





#42

Toluene

Concen: 0.182 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018645.D

Acq: 29 Sep 2020 10:11

Instrument :

MSVOA\_X

ClientSampleId :

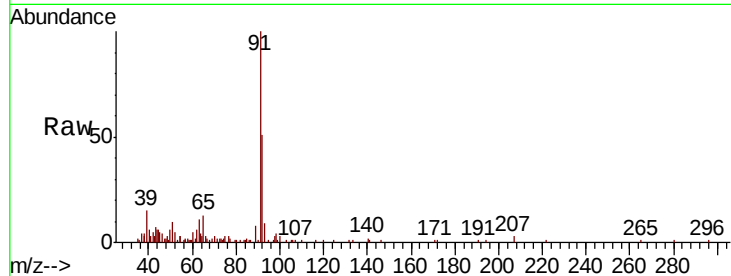
BG0Q6

Tot Ion: 91 Resp: 12488

Ion Ratio Lower Upper

91 100

92 50.7 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0

8.76

6000

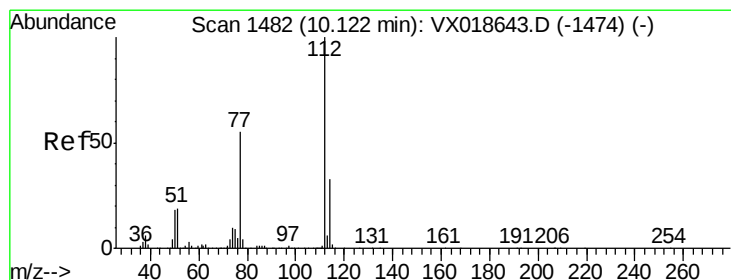
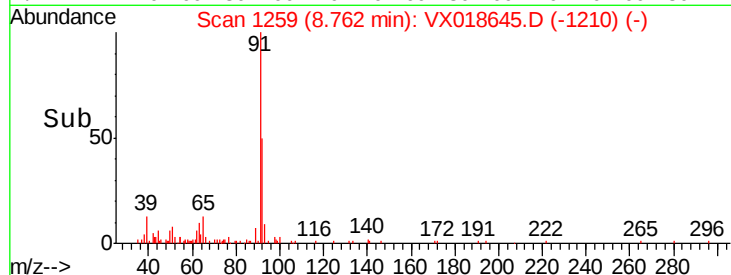
4000

2000

0

8.70 8.75 8.80

Time-->



#53

Chlorobenzene

Concen: 1.601 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX018645.D

Acq: 29 Sep 2020 10:11

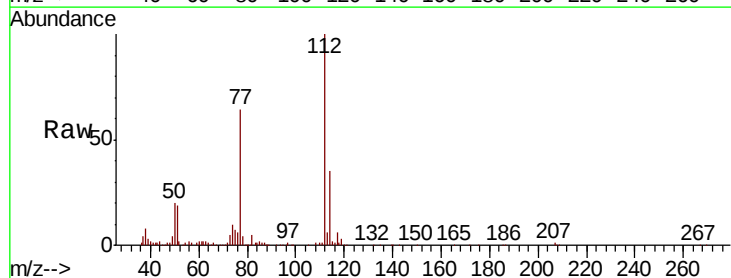
Tgt Ion: 112 Resp: 72380

Ion Ratio Lower Upper

112 100

114 35.5 20.6 38.4

77 64.3 46.6 69.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VX0

60000

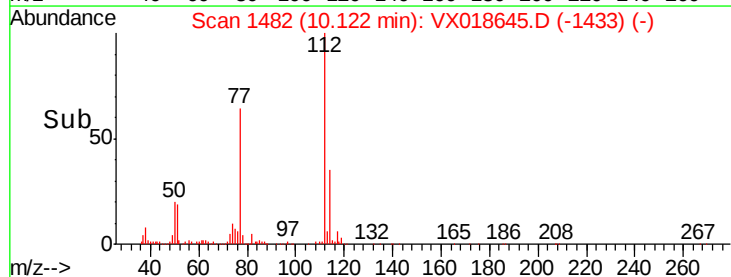
40000

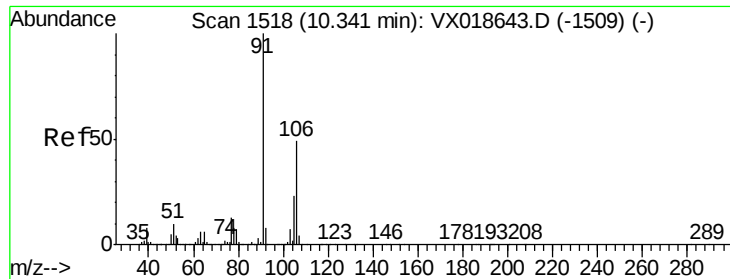
20000

0

10.10 10.12 10.20

Time-->





#55

m,p-xylene

Concen: 0.213 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018645.D

Acq: 29 Sep 2020 10:11

Instrument :

MSVOA\_X

ClientSampleId :

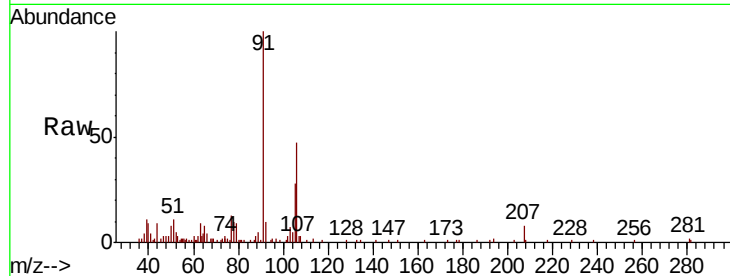
BG0Q6

Tot Ion:106 Resp: 6072

Ion Ratio Lower Upper

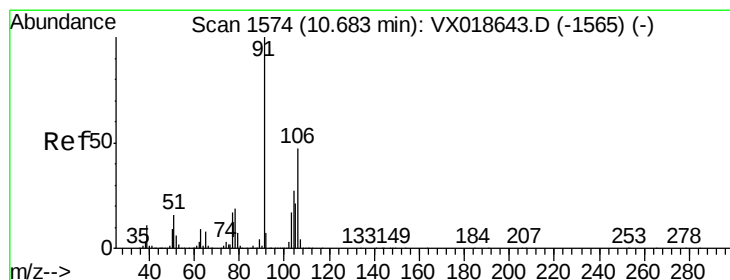
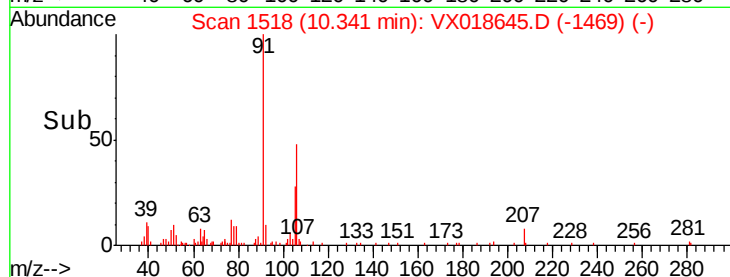
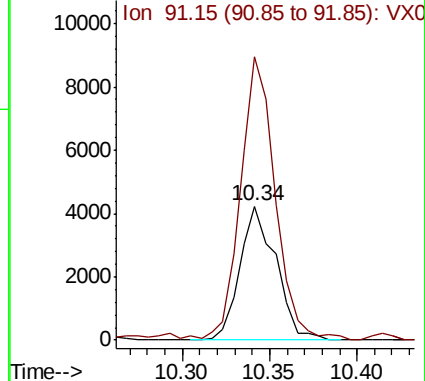
106 100

91 211.4 140.3 260.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 0.119 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018645.D

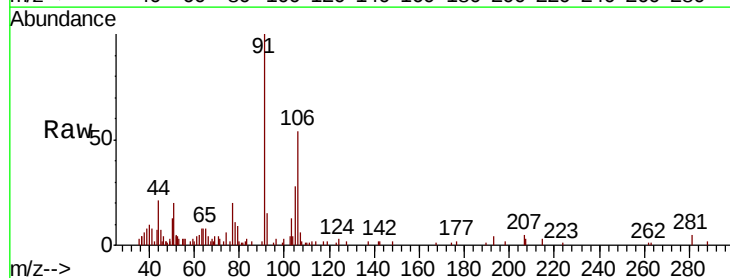
Acq: 29 Sep 2020 10:11

Tgt Ion:106 Resp: 3219

Ion Ratio Lower Upper

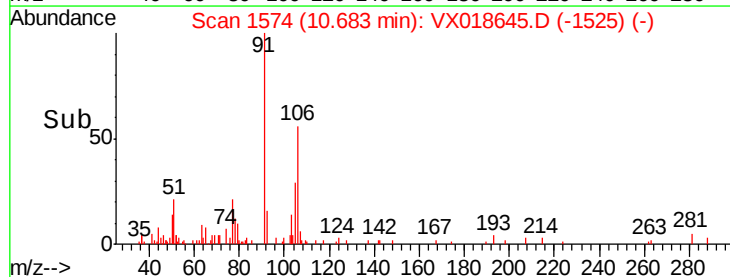
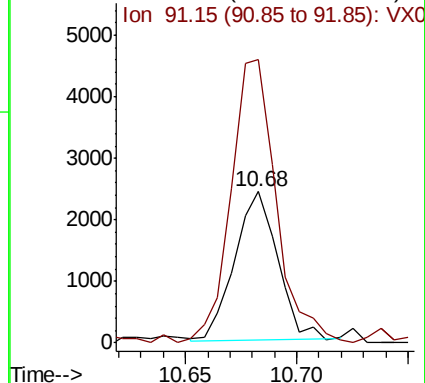
106 100

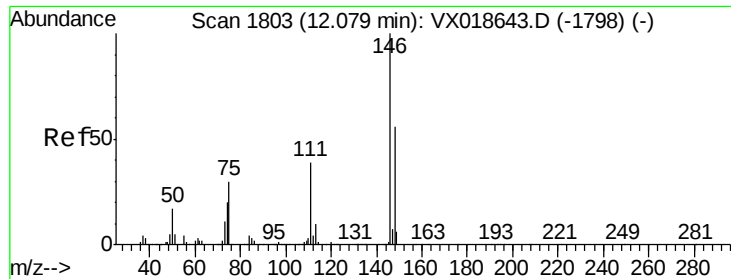
91 186.9 167.5 311.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

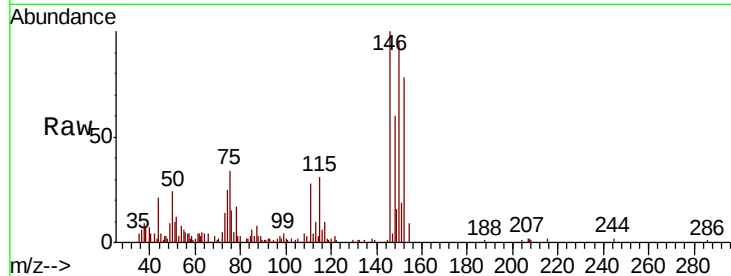




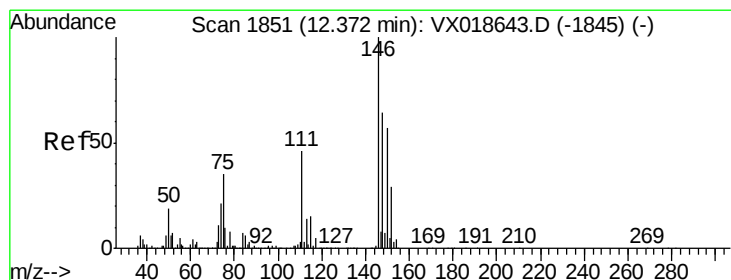
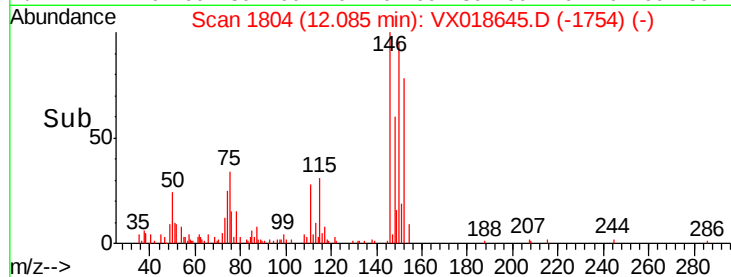
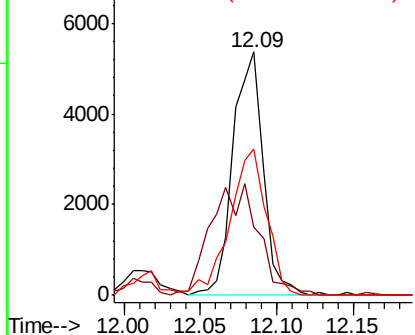
#64  
1,4-Dichlorobenzene  
Concen: 0.212 ug/L  
RT: 12.09 min Scan# 1804  
Delta R.T. 0.01 min  
Lab File: VX018645.D  
Acq: 29 Sep 2020 10:11

Instrument :  
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BG0Q6

Tot Ion:146 Resp: 7375  
Ion Ratio Lower Upper  
146 100  
111 28.2 28.8 53.4#  
148 60.0 44.9 83.3

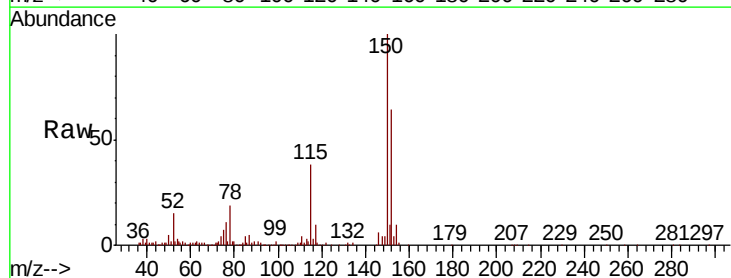


Abundance Ion 145.95 (145.65 to 146.65): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#66  
1,2-Dichlorobenzene  
Concen: 0.152 ug/L  
RT: 12.37 min Scan# 1851  
Delta R.T. -0.00 min  
Lab File: VX018645.D  
Acq: 29 Sep 2020 10:11

Tgt Ion:146 Resp: 4877  
Ion Ratio Lower Upper  
146 100  
111 60.2 33.6 50.4#  
148 61.2 53.4 80.2



Abundance Ion 145.95 (145.65 to 146.65): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

