

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092820\  
 Data File : VX018639.D  
 Acq On : 29 Sep 2020 00:58  
 Operator : JC/SP  
 Sample : L4135-19  
 Misc : 25.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BG497

Quant Time: Sep 29 02:42:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SOMXTR092820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 29 02:30:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.83  | 114  | 331277   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.10 | 117  | 313619   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 146901   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 59015    | 3.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 68.00%  |
| 7) Chloroethane-d5             | 1.70   | 69    | 51537    | 3.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 70.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.34   | 63    | 106890   | 2.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 55.80%# |
| 20) 2-Butanone-d5              | 4.55   | 46    | 176022   | 39.82    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 79.64%  |
| 24) Chloroform-d               | 5.14   | 84    | 145763   | 3.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 71.00%  |
| 26) 1,2-Dichloroethane-d4      | 6.03   | 65    | 80488    | 3.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 67.20%# |
| 32) Benzene-d6                 | 6.05   | 84    | 283789   | 3.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 78.40%  |
| 36) 1,2-Dichloropropane-d6     | 7.37   | 67    | 89885    | 4.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 81.60%  |
| 41) Toluene-d8                 | 8.70   | 98    | 259217   | 3.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 72.00%  |
| 45) trans-1,3-Dichloropropene- | 8.99   | 79    | 34430    | 3.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 70.20%  |
| 48) 2-Hexanone-d5              | 9.43   | 63    | 141503   | 40.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 80.56%  |
| 59) 1,1,2,2-Tetrachloroethane- | 11.23  | 84    | 62277    | 3.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 75.80%  |
| 65) 1,2-Dichlorobenzene-d4     | 12.36  | 152   | 94842    | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 79.00%# |

## Target Compounds

|                            |       |     |       |              | Ovalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane           | 1.31  | 50  | 8306  | 0.485 ug/L   | 97     |
| 5) Vinyl chloride          | 1.17  | 62  | 1342  | 0.075 ug/L   | 89     |
| 6) Bromomethane            | 1.64  | 94  | 946   | 0.088 ug/L   | 72     |
| 8) Chloroethane            | 1.76  | 64  | 13461 | 1.365 ug/L # | 57     |
| 13) Acetone                | 2.44  | 43  | 15387 | 6.289 ug/L   | 92     |
| 14) Carbon disulfide       | 2.56  | 76  | 4446  | 0.090 ug/L # | 74     |
| 16) Methylene chloride     | 2.84  | 84  | 2558  | 0.116 ug/L   | 93     |
| 22) cis-1,2-Dichloroethene | 4.57  | 96  | 2716  | 0.161 ug/L # | 65     |
| 33) Benzene                | 6.12  | 78  | 19471 | 0.322 ug/L   | 100    |
| 35) Methylcyclohexane      | 7.37  | 83  | 21095 | 0.867 ug/L # | 19     |
| 42) Toluene                | 8.76  | 91  | 47139 | 0.722 ug/L   | 95     |
| 49) Tetrachloroethene      | 9.32  | 164 | 1593  | 0.116 ug/L # | 79     |
| 50) 2-Hexanone             | 9.43  | 43  | 19125 | 3.021 ug/L # | 69     |
| 53) Chlorobenzene          | 10.12 | 112 | 10914 | 0.253 ug/L   | 92     |
| 54) Ethylbenzene           | 10.23 | 91  | 6402  | 0.090 ug/L   | 92     |
| 55) m,p-xylene             | 10.34 | 106 | 5153  | 0.189 ug/L   | 86     |

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QLast Update : Tue Sep 29 02:30:52 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

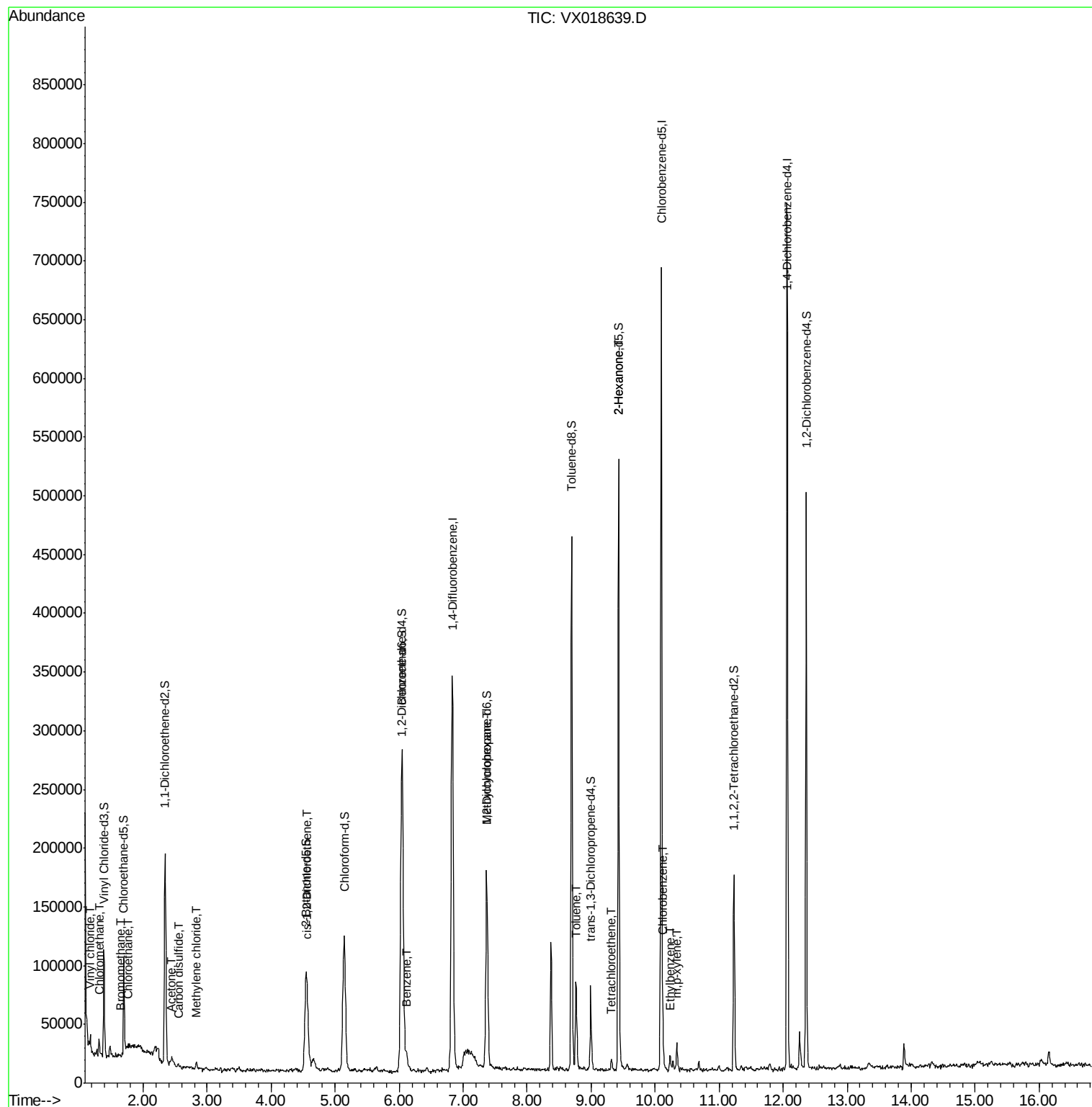
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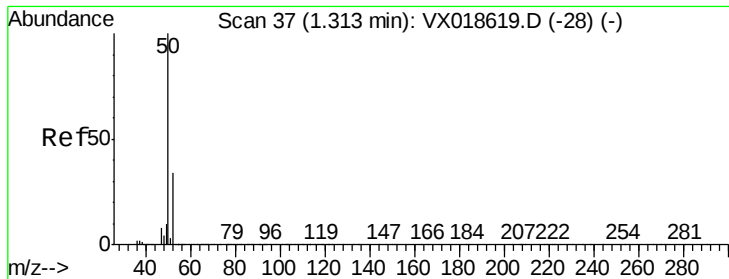
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.485 ug/L

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

Instrument :

MSVOA\_X

ClientSampleId :

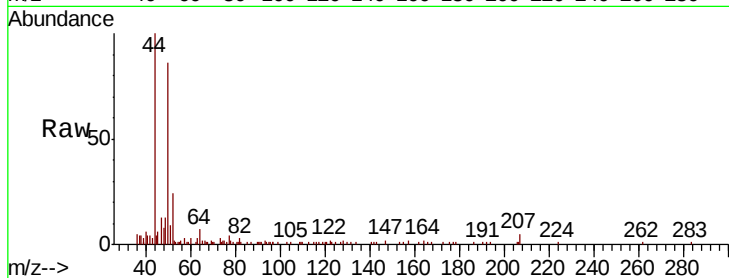
BG497

Tot Ion: 50 Resp: 8306

Ion Ratio Lower Upper

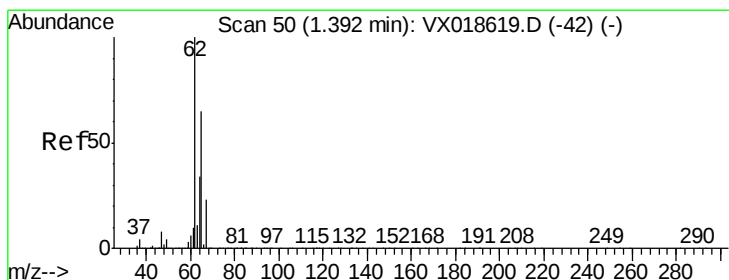
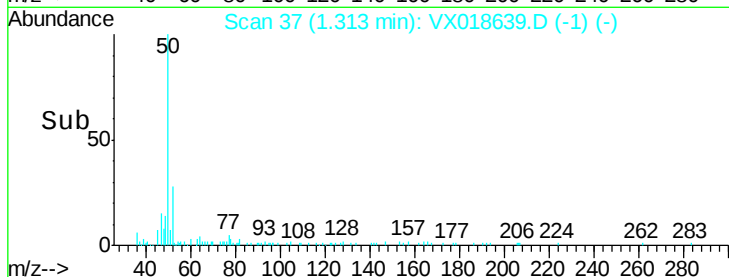
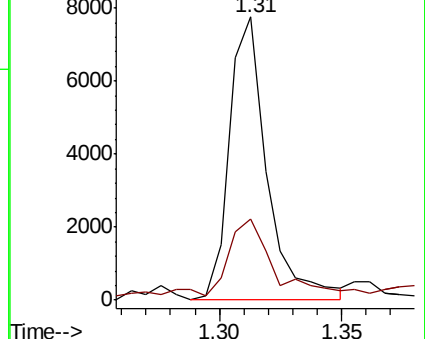
50 100

52 28.5 21.2 39.4



Abundance Ion 50.05 (49.75 to 50.75): VX0

Ion 52.05 (51.75 to 52.75): VX0



#5

Vinyl chloride

Concen: 0.075 ug/L

RT: 1.17 min Scan# 14

Delta R.T. -0.22 min

Lab File: VX018639.D

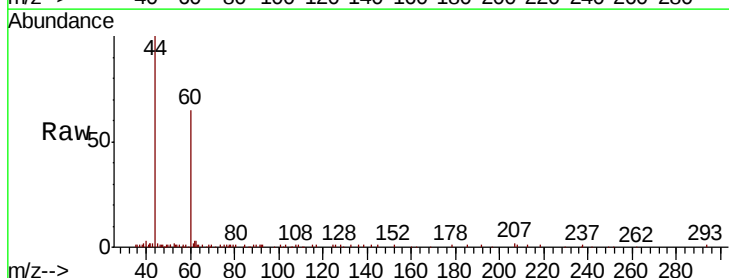
Acq: 29 Sep 2020 00:58

Tgt Ion: 62 Resp: 1342

Ion Ratio Lower Upper

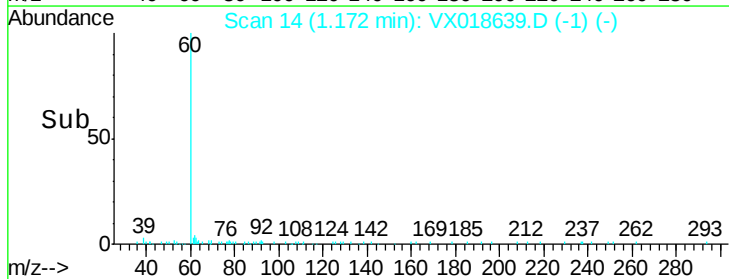
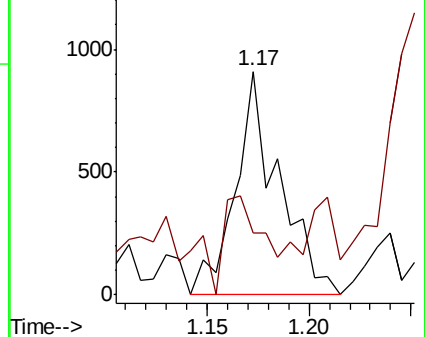
62 100

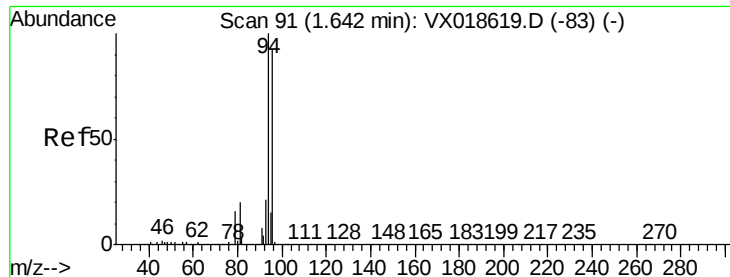
64 27.4 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.10 (63.80 to 64.80): VX0





#6

Bromomethane

Concen: 0.088 ug/L

RT: 1.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

Instrument :

MSVOA\_X

ClientSampled :

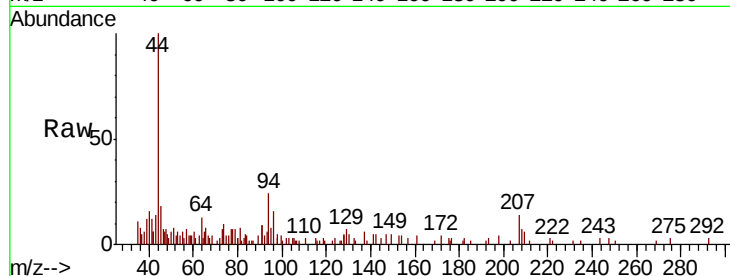
BG497

Tot Ion: 94 Resp: 946

Ion Ratio Lower Upper

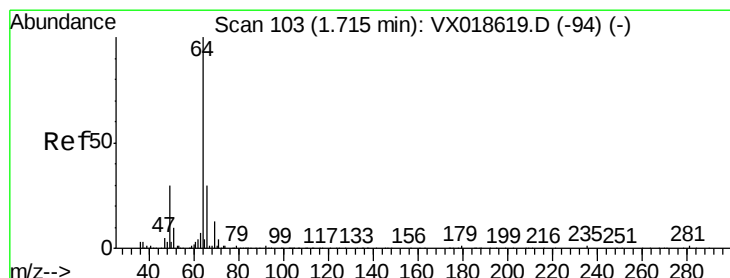
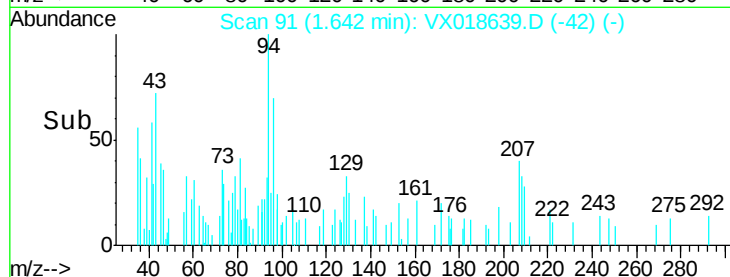
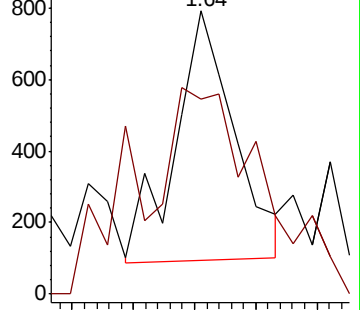
94 100

96 68.9 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#8

Chloroethane

Concen: 1.365 ug/L

RT: 1.76 min Scan# 111

Delta R.T. 0.05 min

Lab File: VX018639.D

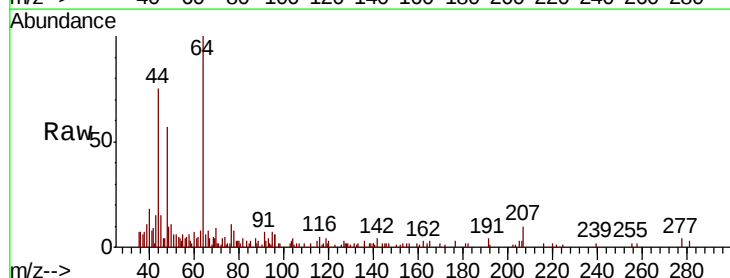
Acq: 29 Sep 2020 00:58

Tgt Ion: 64 Resp: 13461

Ion Ratio Lower Upper

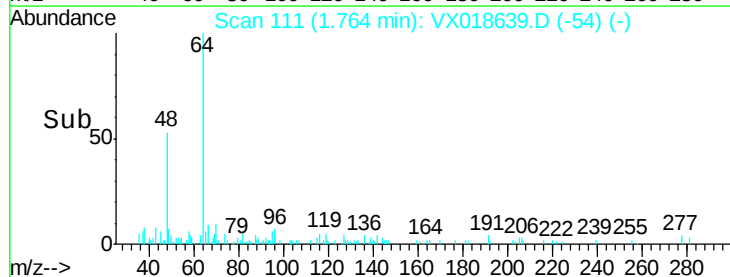
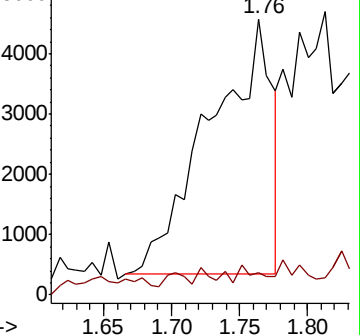
64 100

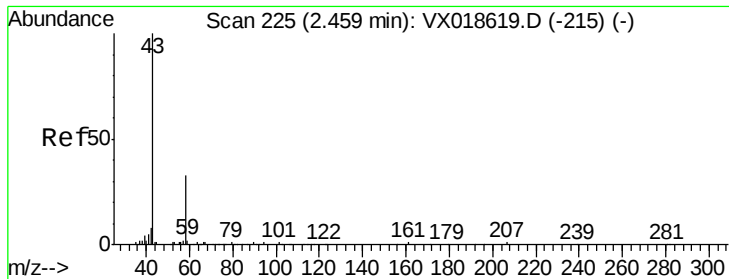
66 8.1 22.3 41.3#



Abundance Ion 64.10 (63.80 to 64.80): VX0

Ion 66.05 (65.75 to 66.75): VX0

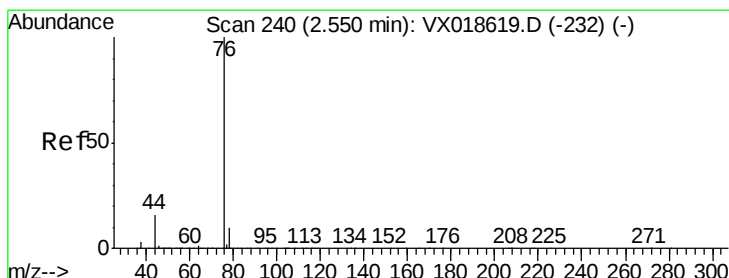
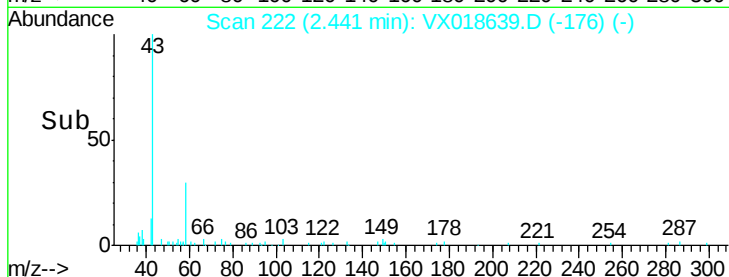
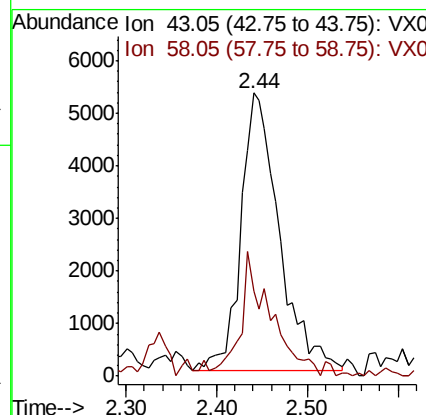
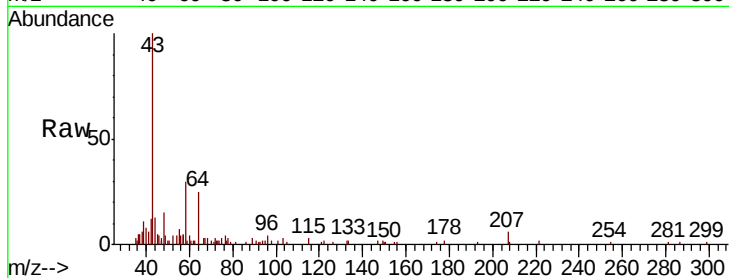




#13  
Acetone  
Concen: 6.289 ug/L  
RT: 2.44 min Scan# 222  
Delta R.T. -0.02 min  
Lab File: VX018639.D  
Acq: 29 Sep 2020 00:58

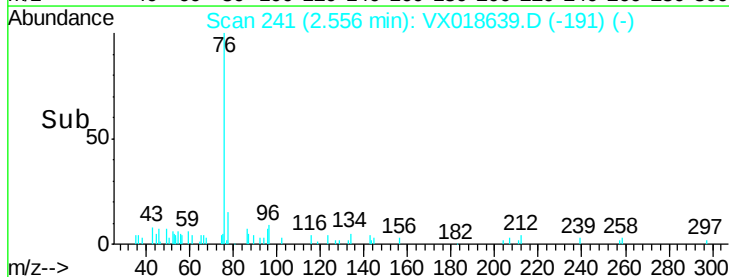
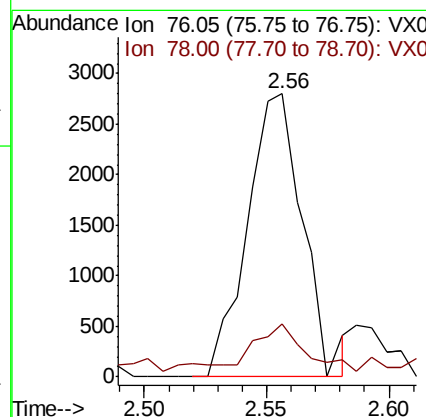
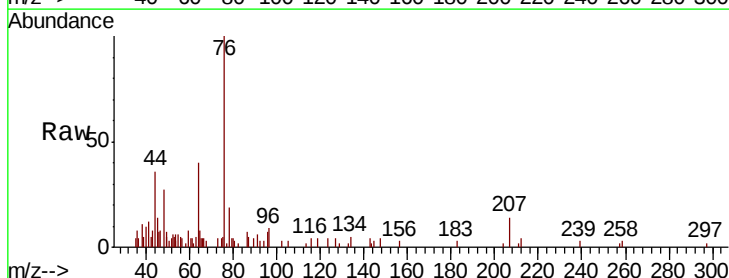
Instrument :  
MSVOA\_X  
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BG497

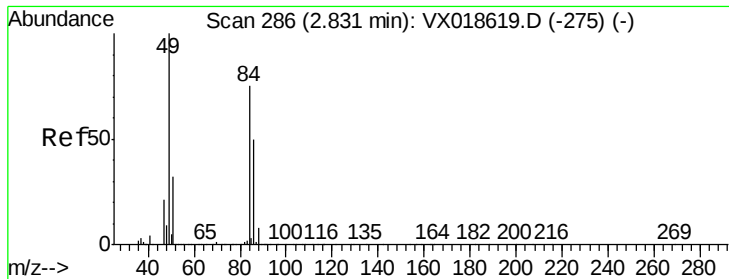
Tot Ion: 43 Resp: 15387  
Ion Ratio Lower Upper  
43 100  
58 35.4 0.0 61.6



#14  
Carbon disulfide  
Concen: 0.090 ug/L  
RT: 2.56 min Scan# 241  
Delta R.T. 0.01 min  
Lab File: VX018639.D  
Acq: 29 Sep 2020 00:58

Tgt Ion: 76 Resp: 4446  
Ion Ratio Lower Upper  
76 100  
78 18.6 7.4 11.0#

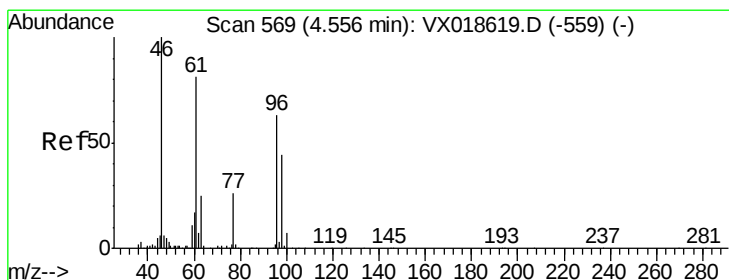
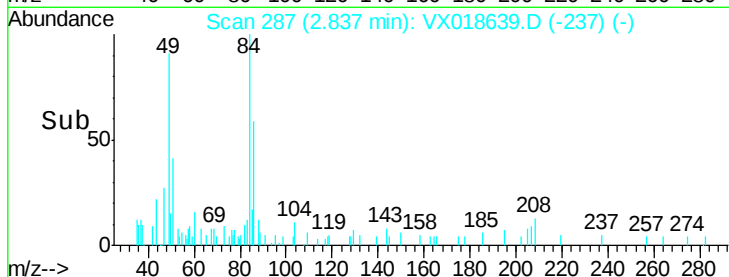
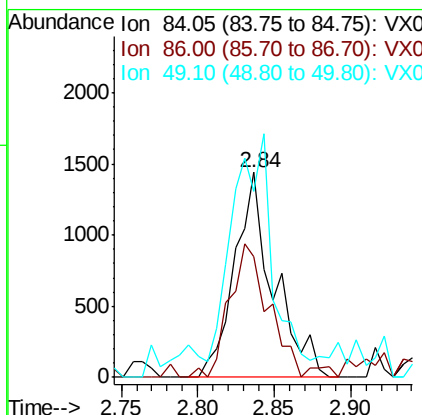
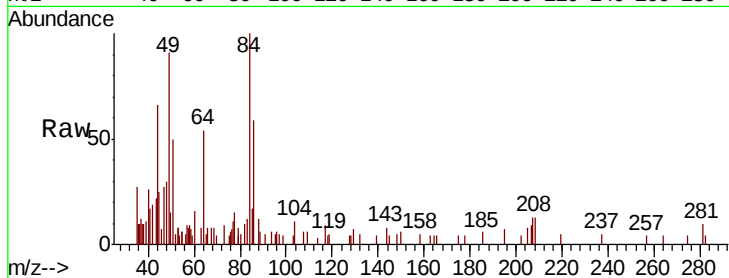




#16  
Methvlene chloride  
Concen: 0.116 ug/L  
RT: 2.84 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: VX018639.D  
Acq: 29 Sep 2020 00:58

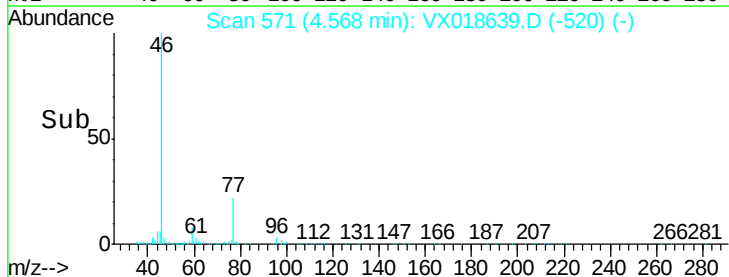
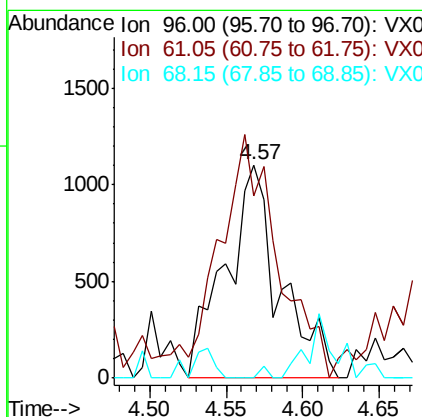
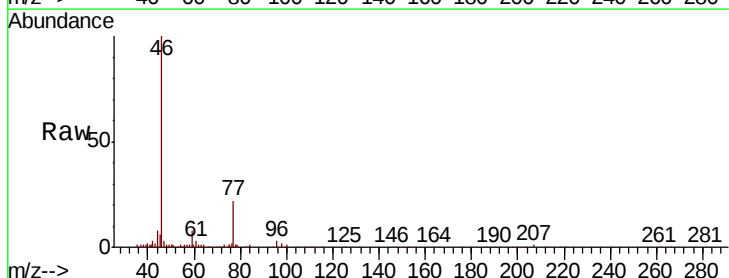
Instrument :  
MSVOA\_X  
ClientSampleId :  
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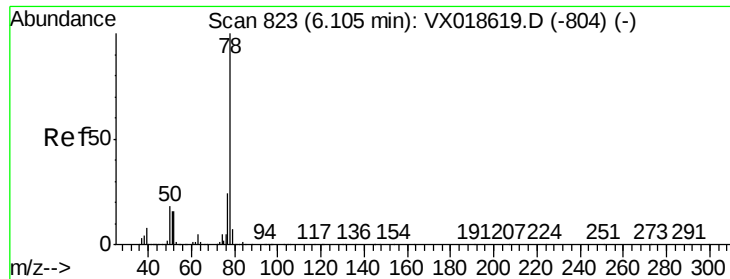
Tot Ion: 84 Resp: 2558  
Ion Ratio Lower Upper  
84 100  
86 59.0 41.9 77.7  
49 105.3 80.8 150.2



#22  
cis-1,2-Dichloroethene  
Concen: 0.161 ug/L  
RT: 4.57 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: VX018639.D  
Acq: 29 Sep 2020 00:58

Tgt Ion: 96 Resp: 2716  
Ion Ratio Lower Upper  
96 100  
61 85.6 87.7 162.9#  
68 0.0 0.3 0.7#





#33

Benzene

Concen: 0.322 ug/L

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

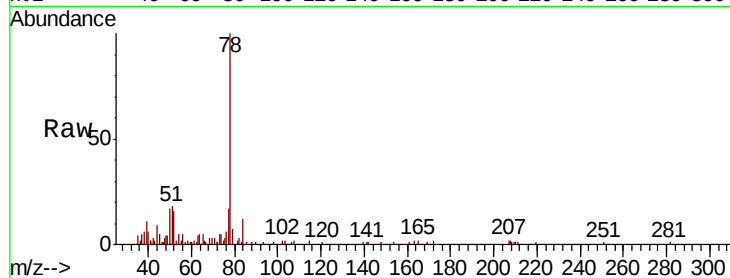
Instrument :

MSVOA\_X

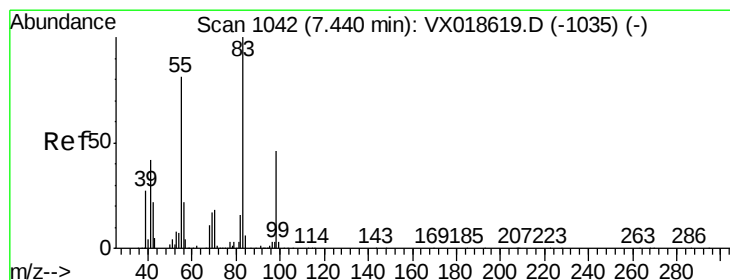
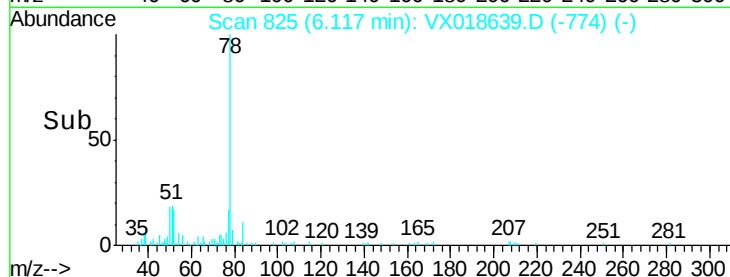
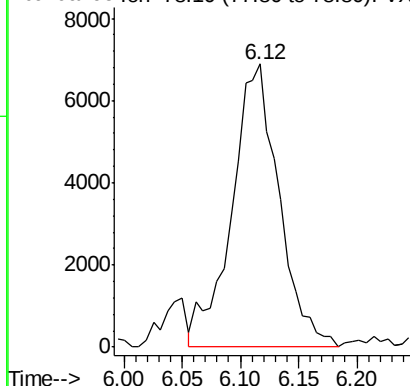
ClientSampleId :

BG497

Tgt Ion: 78 Resp: 19471



Abundance Ion 78.10 (77.80 to 78.80): VX0



#35

Methylcyclohexane

Concen: 0.867 ug/L

RT: 7.37 min Scan# 1030

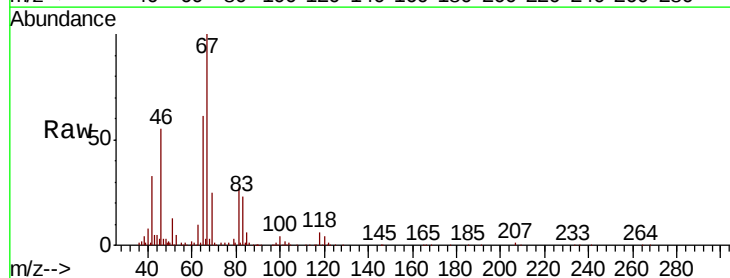
Delta R.T. -0.07 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

Tgt Ion: 83 Resp: 21095

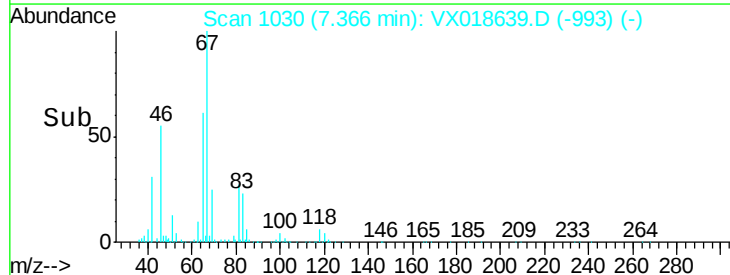
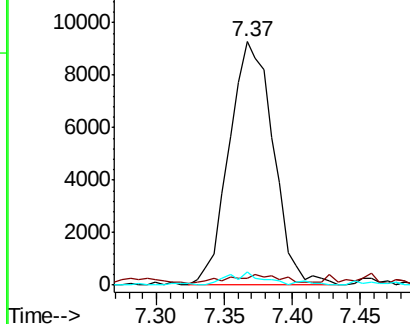
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 83  | 100   |       |        |
| 55  | 2.8   | 67.4  | 101.0# |
| 98  | 4.1   | 41.1  | 61.7#  |

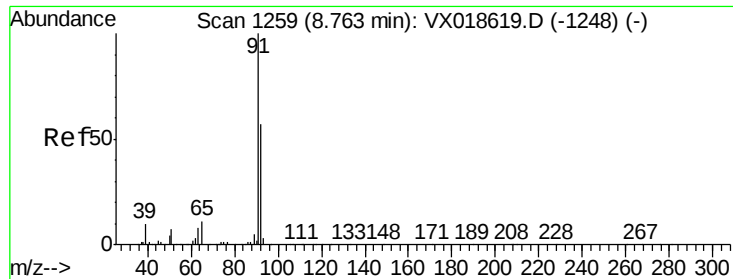


Abundance Ion 83.15 (82.85 to 83.85): VX0

Ion 55.10 (54.80 to 55.80): VX0

Ion 98.15 (97.85 to 98.85): VX0





#42

Toluene

Concen: 0.722 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

Instrument :

MSVOA\_X

ClientSampleId :

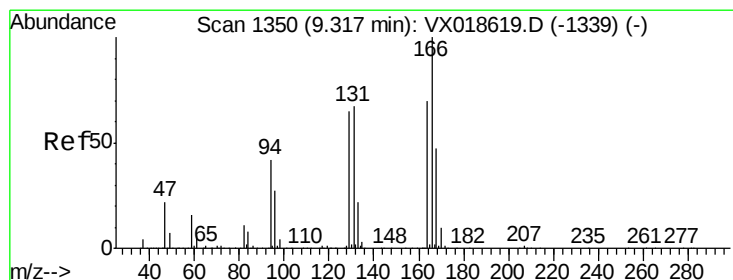
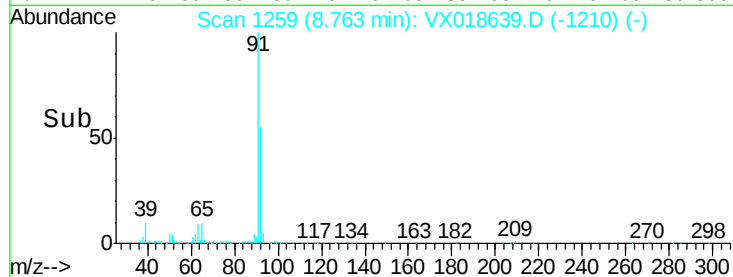
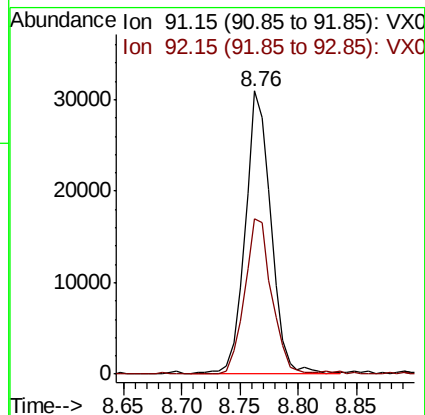
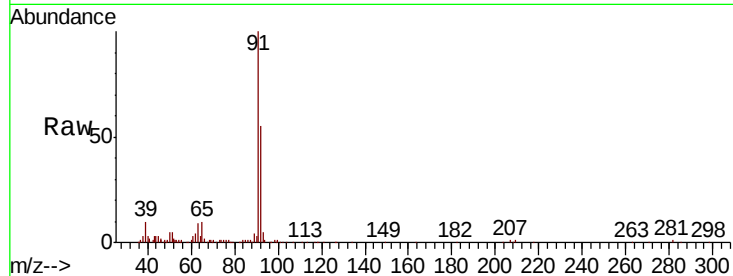
BG497

Tot Ion: 91 Resp: 47139

Ion Ratio Lower Upper

91 100

92 55.1 41.1 76.3



#49

Tetrachloroethene

Concen: 0.116 ug/L

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

Tgt Ion: 164 Resp: 1593

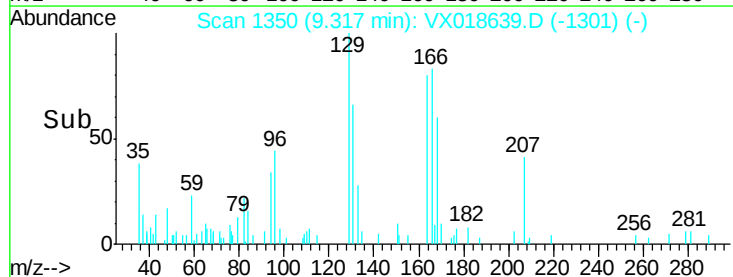
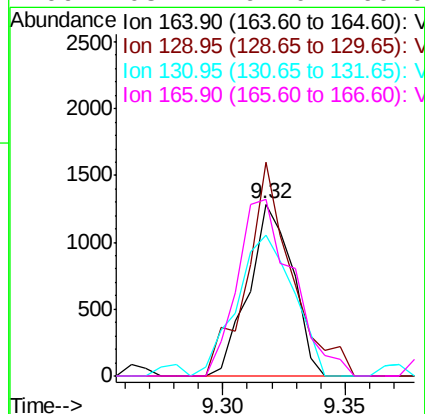
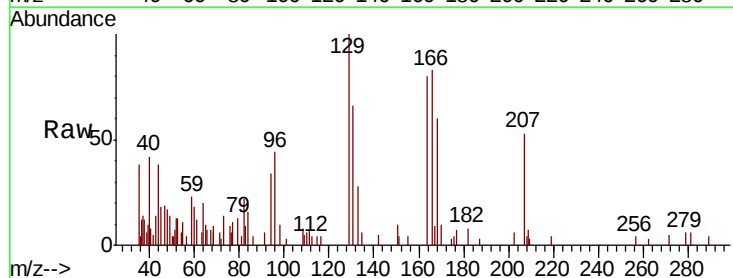
Ion Ratio Lower Upper

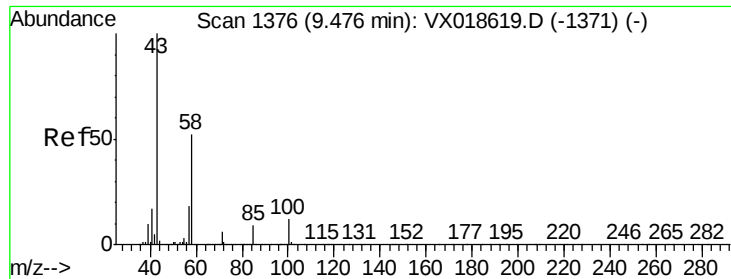
164 100

129 124.5 65.9 122.3#

131 82.2 61.4 114.0

166 103.1 91.0 169.0

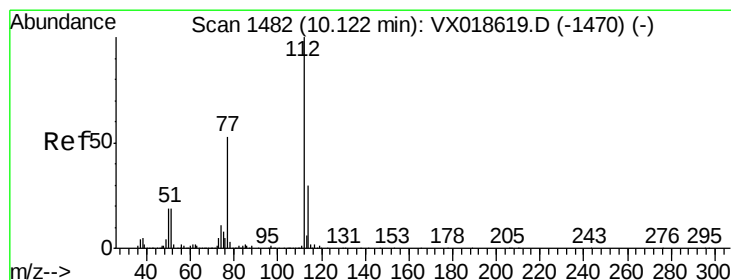
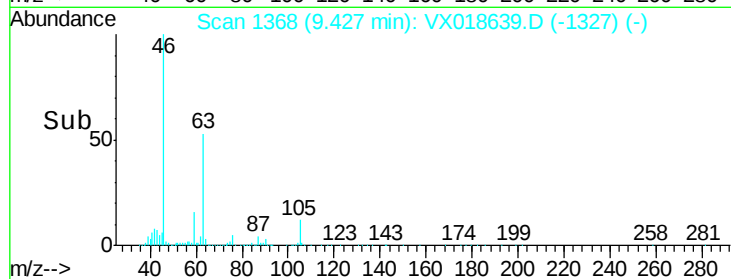
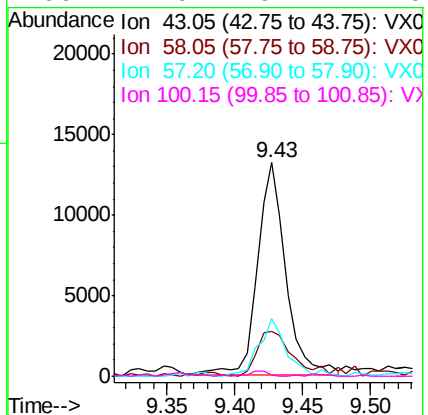
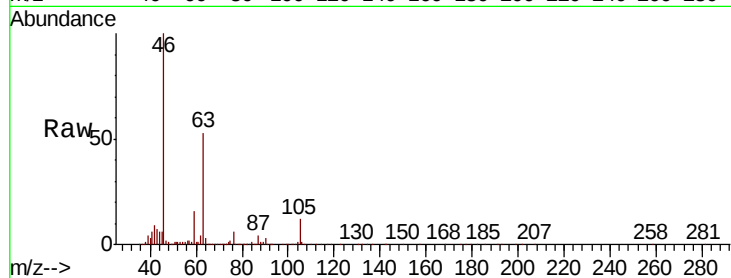




#50  
2-Hexanone  
Concen: 3.021 ug/L  
RT: 9.43 min Scan# 1368  
Delta R.T. -0.05 min  
Lab File: VX018639.D  
Acq: 29 Sep 2020 00:58

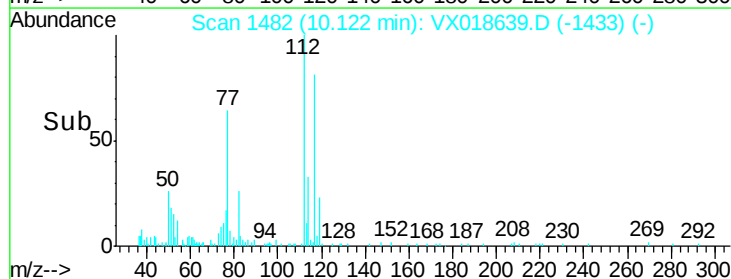
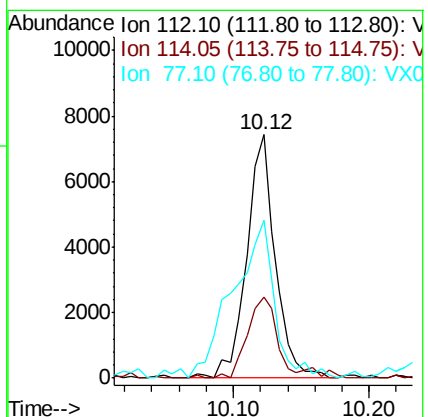
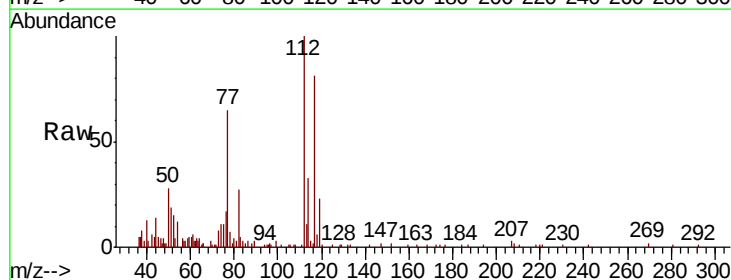
Instrument :  
MSVOA\_X  
ClientSampleId :  
BG497

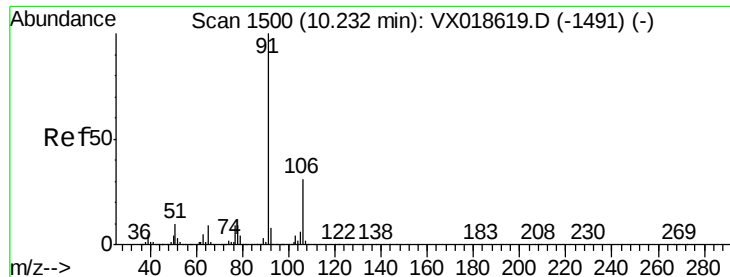
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 19125 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 26.6  | 42.5  | 63.7# |
| 57       | 27.4  | 15.9  | 23.9# |
| 100      | 2.0   | 9.4   | 14.0# |



#53  
Chlorobenzene  
Concen: 0.253 ug/L  
RT: 10.12 min Scan# 1482  
Delta R.T. -0.00 min  
Lab File: VX018639.D  
Acq: 29 Sep 2020 00:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 10914 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 33.3  | 20.6  | 38.4  |
| 77       | 65.1  | 46.6  | 69.8  |





#54

Ethylbenzene

Concen: 0.090 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX018639.D

Acq: 29 Sep 2020 00:58

Instrument :

MSVOA\_X

ClientSampleId :

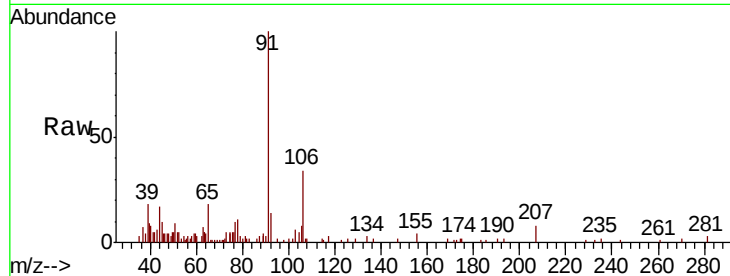
BG497

Tot Ion: 91 Resp: 6402

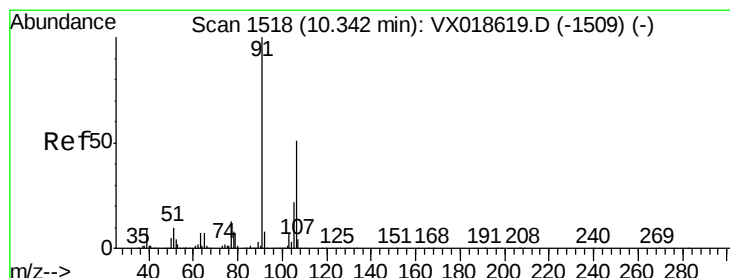
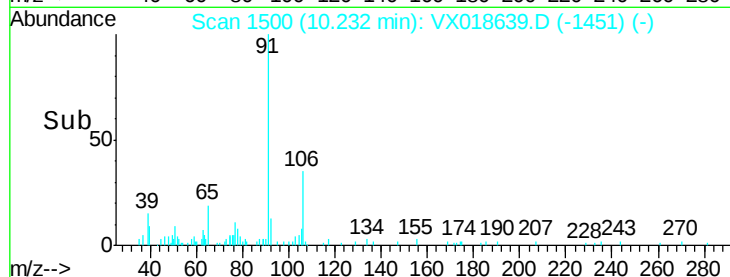
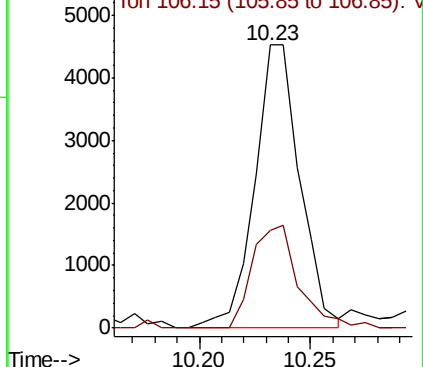
Ion Ratio Lower Upper

91 100

106 34.4 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VX0



#55

m,p-xylene

Concen: 0.189 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018639.D

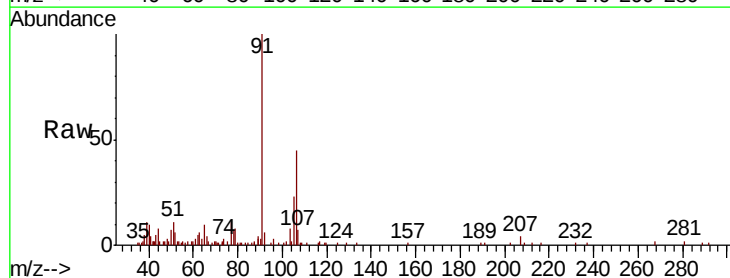
Acq: 29 Sep 2020 00:58

Tgt Ion: 106 Resp: 5153

Ion Ratio Lower Upper

106 100

91 221.9 140.3 260.6



Abundance Ion 106.15 (105.85 to 106.85): V

