

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040220\  
 Data File : VX015478.D  
 Acq On : 02 Apr 2020 13:51  
 Operator : JC/SP  
 Sample : L2101-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 239-WC-L-01

Quant Time: Apr 03 08:00:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

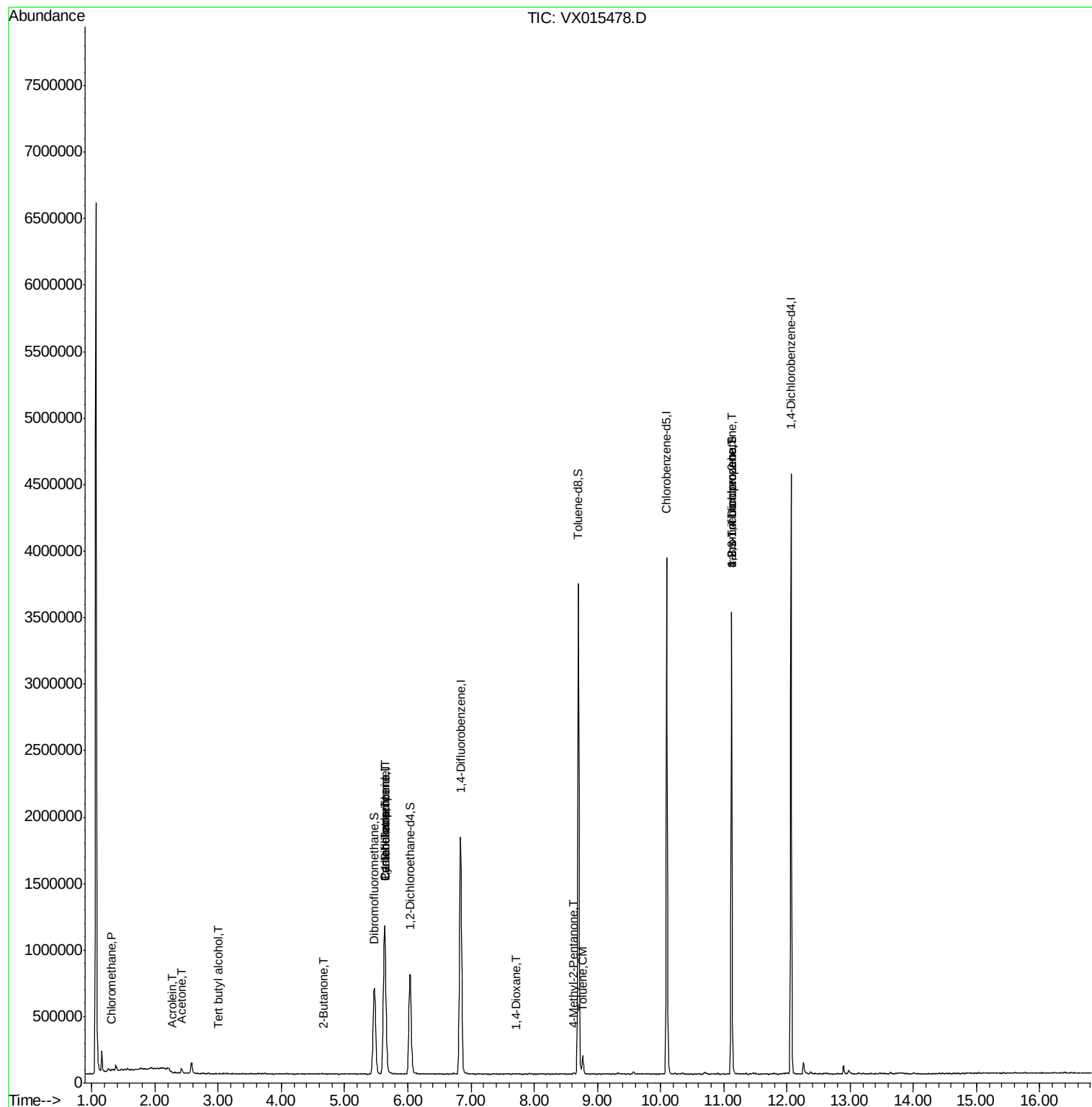
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.63   | 168  | 1097274  | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.84   | 114  | 1766645  | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.10  | 117  | 1663427  | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.06  | 152  | 895384   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.03   | 65   | 739973   | 47.81     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 95.62%  |          |
| 35) Dibromofluoromethane       | 5.47   | 113  | 548929   | 48.61     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.22%  |          |
| 50) Toluene-d8                 | 8.70   | 98   | 2128200  | 51.19     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 102.38% |          |
| 62) 4-Bromofluorobenzene       | 11.12  | 95   | 900510   | 53.29     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 106.58% |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 1.31   | 50   | 5524     | 0.449     | ug/l    | 95       |
| 5) Bromomethane                | 1.64   | 94   | 1609     | Below Cal |         | 91       |
| 11) Tert butyl alcohol         | 3.01   | 59   | 5438     | 1.468     | ug/l #  | 73       |
| 13) Acrolein                   | 2.28   | 56   | 630      | 0.299     | ug/l #  | 14       |
| 16) Acetone                    | 2.42   | 43   | 41391    | 6.225     | ug/l    | 99       |
| 25) 2-Butanone                 | 4.67   | 43   | 8377     | 0.783     | ug/l #  | 78       |
| 31) Cyclohexane                | 5.63   | 56   | 23875    | 1.219     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 5.63   | 75   | 79573    | 4.888     | ug/l #  | 53       |
| 38) Carbon Tetrachloride       | 5.64   | 117  | 105302   | 5.973     | ug/l #  | 14       |
| 49) 1,4-Dioxane                | 7.72   | 88   | 697      | 2.091     | ug/l #  | 68       |
| 51) 4-Methyl-2-Pentanone       | 8.62   | 43   | 8532     | 0.421     | ug/l #  | 66       |
| 52) Toluene                    | 8.77   | 92   | 50205    | 1.708     | ug/l    | 96       |
| 76) 1,2,3-Trichloropropane     | 11.12  | 75   | 470529   | 25.554    | ug/l #  | 35       |
| 81) trans-1,4-Dichloro-2-buten | 11.12  | 75   | 470529   | 61.317    | ug/l #  | 10       |

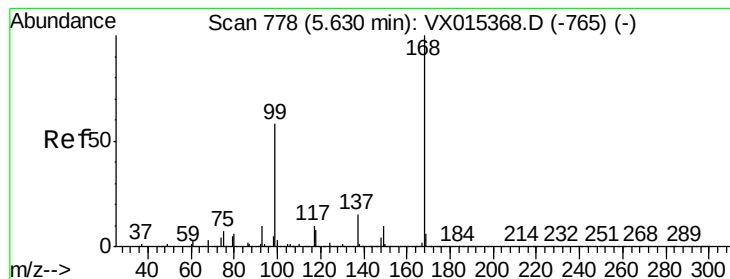
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampleId :  
239-WC-L-01

Quant Time: Apr 03 08:00:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampled :

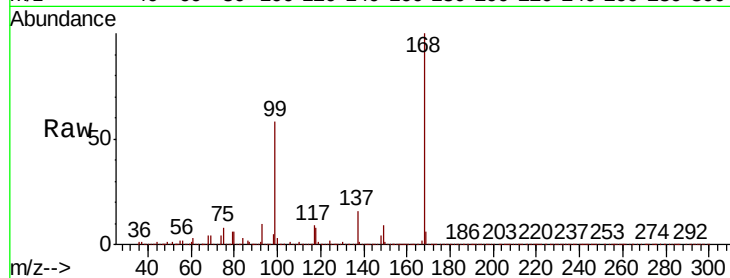
239-WC-L-01

Tot Ion:168 Resp: 1097274

Ion Ratio Lower Upper

168 100

99 57.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

400000

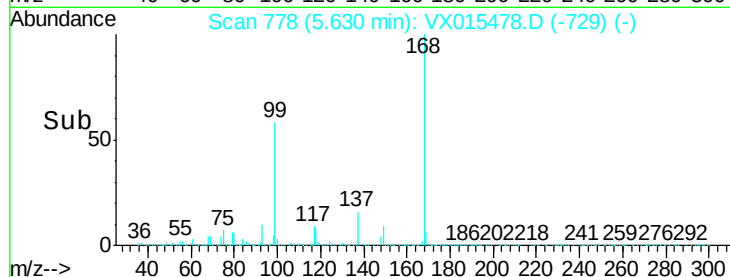
300000

200000

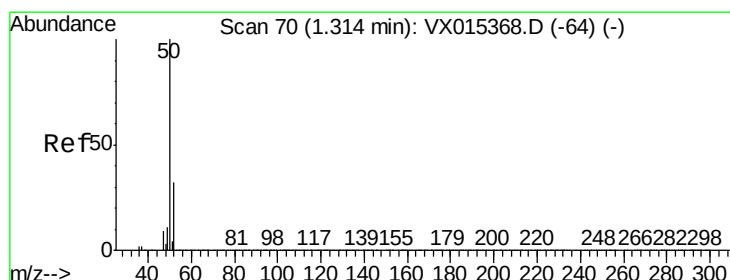
100000

0

5.50 5.60 5.70 5.80



Time-->



#3

Chloromethane

Concen: 0.449 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX015478.D

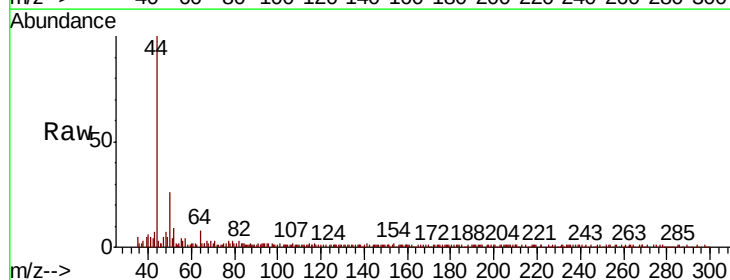
Acq: 02 Apr 2020 13:51

Tgt Ion: 50 Resp: 5524

Ion Ratio Lower Upper

50 100

52 29.1 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

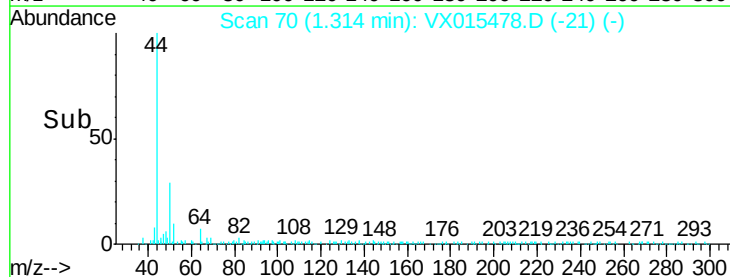
6000

4000

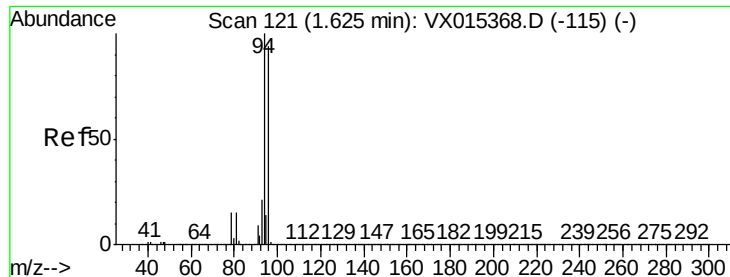
2000

0

1.30 1.35



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampled :

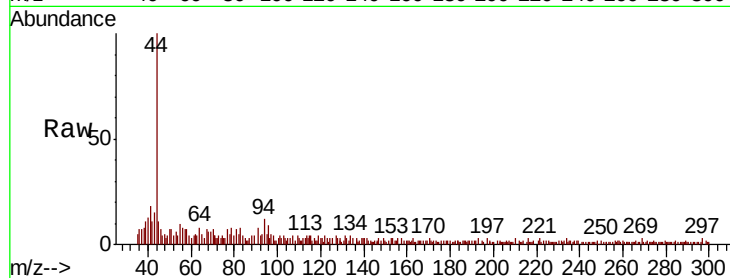
239-WC-L-01

Tot Ion: 94 Resp: 1609

Ion Ratio Lower Upper

94 100

96 102.4 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

1000

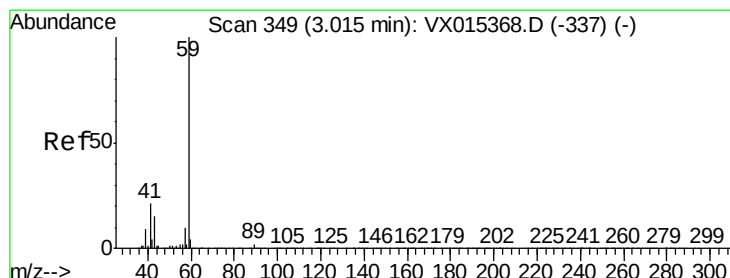
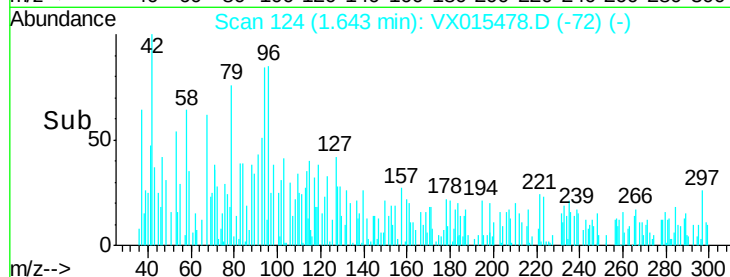
500

0

Time-->

1.60 1.65 1.70

1.64



#11

Tert butyl alcohol

Concen: 1.468 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.01 min

Lab File: VX015478.D

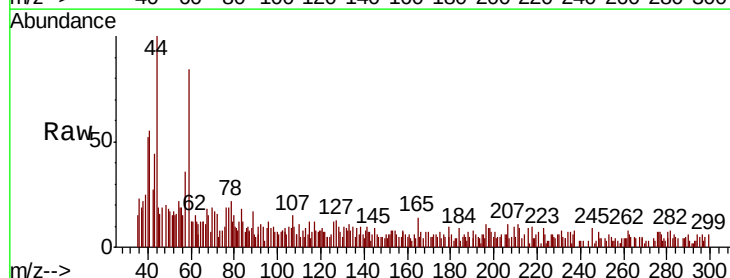
Acq: 02 Apr 2020 13:51

Tgt Ion: 59 Resp: 5438

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2500

2000

1500

1000

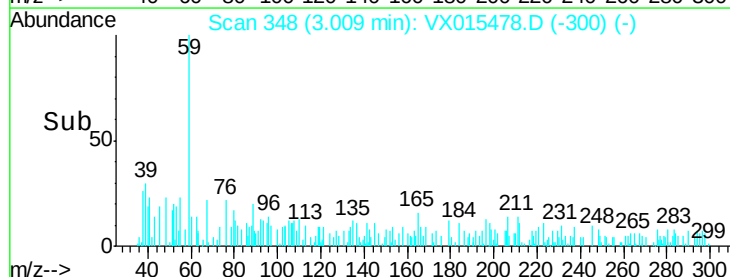
500

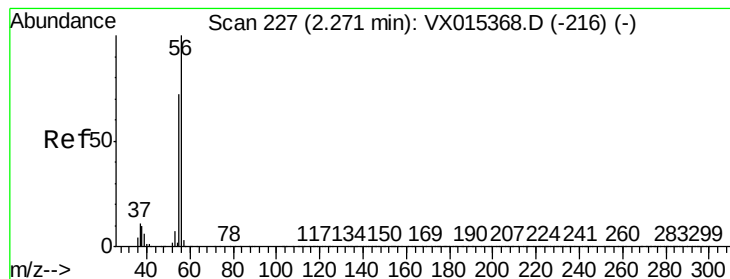
0

Time-->

2.95 3.00 3.05 3.10

3.01





#13

Acrolein

Concen: 0.299 ug/l

RT: 2.28 min Scan# 228

Delta R.T. 0.01 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampleId :

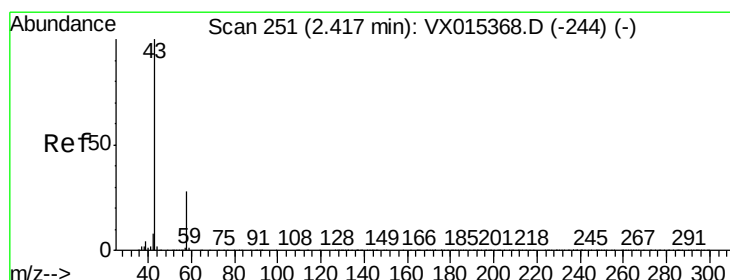
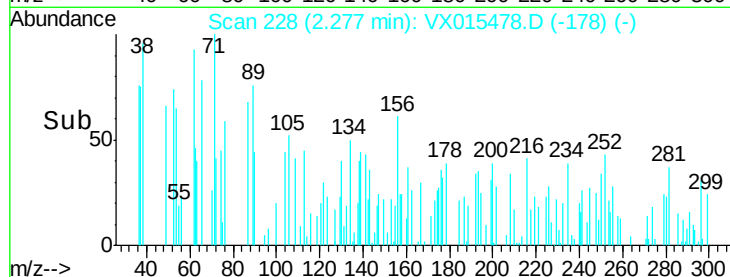
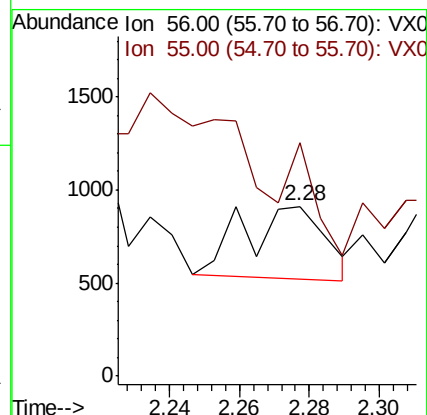
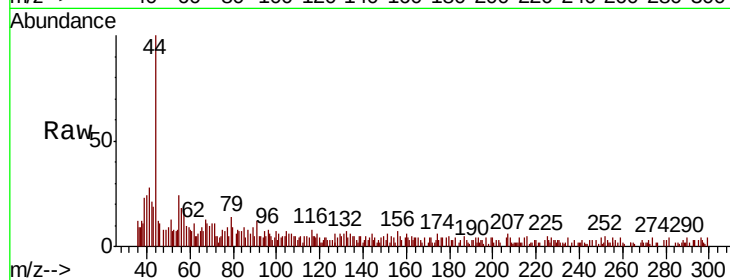
239-WC-L-01

Tot Ion: 56 Resp: 630

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 6.225 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015478.D

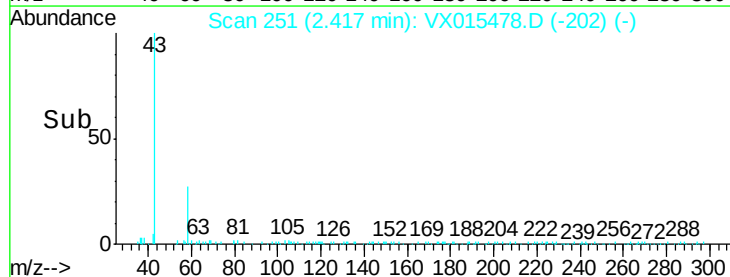
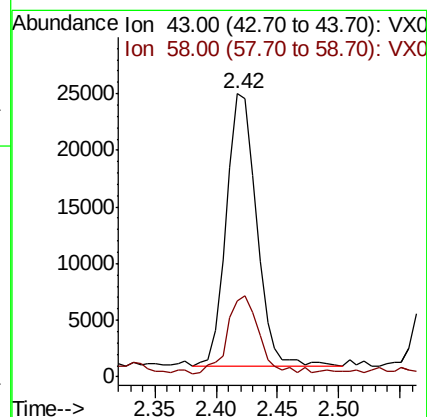
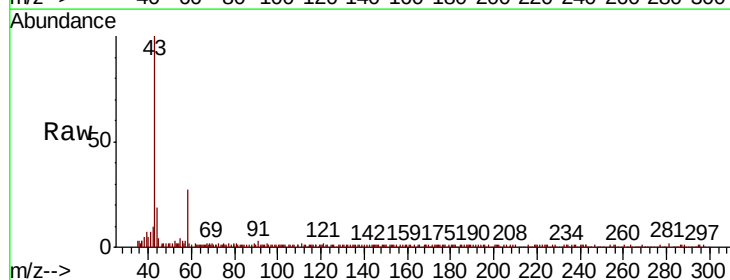
Acq: 02 Apr 2020 13:51

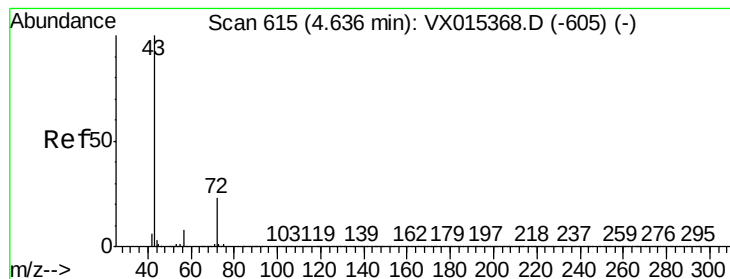
Tgt Ion: 43 Resp: 41391

Ion Ratio Lower Upper

43 100

58 26.9 22.1 33.1





#25

2-Butanone

Concen: 0.783 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.03 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampled :

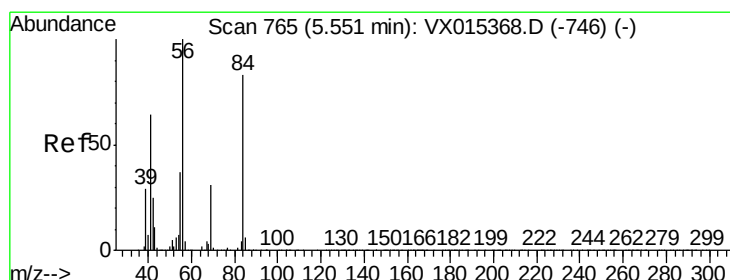
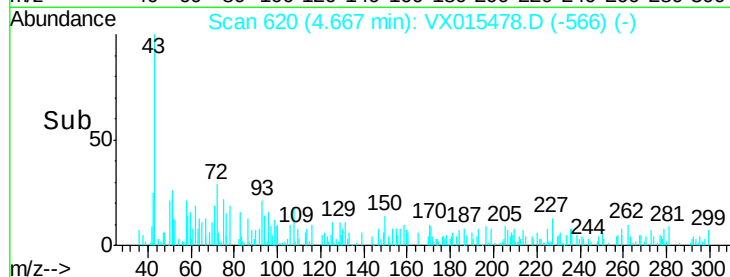
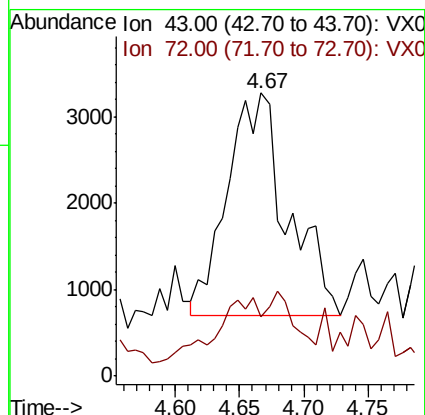
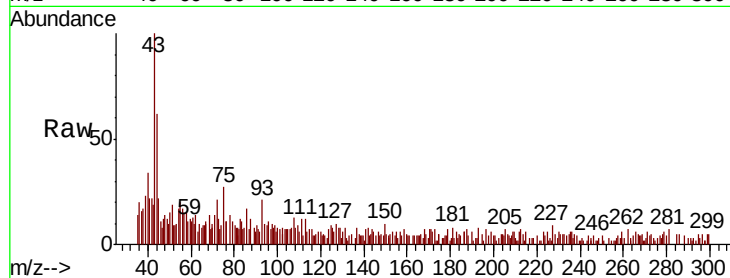
239-WC-L-01

Tot Ion: 43 Resp: 8377

Ion Ratio Lower Upper

43 100

72 12.9 19.0 28.4#



#31

Cyclohexane

Concen: 1.219 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.08 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

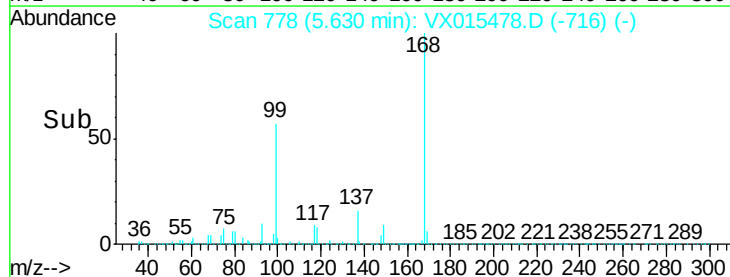
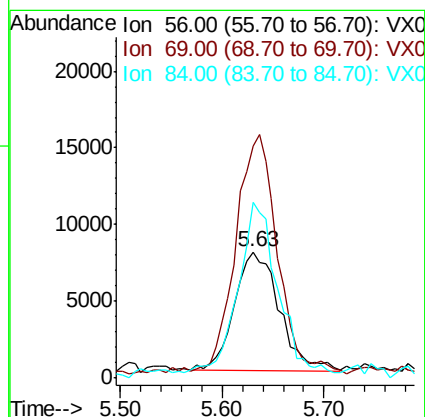
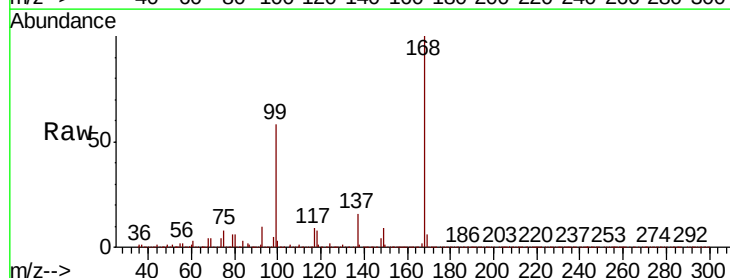
Tgt Ion: 56 Resp: 23875

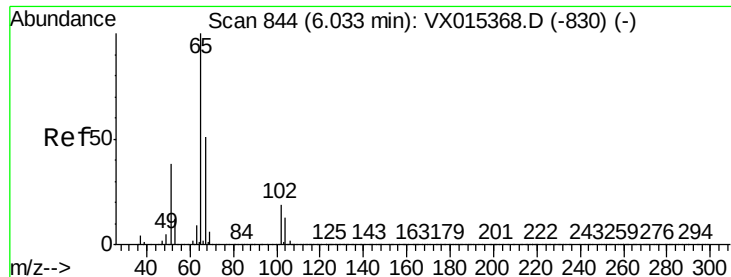
Ion Ratio Lower Upper

56 100

69 189.3 24.6 36.8#

84 142.5 66.1 99.1#





#33

1,2-Dichloroethane-d4

Concen: 47.815 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampleId :

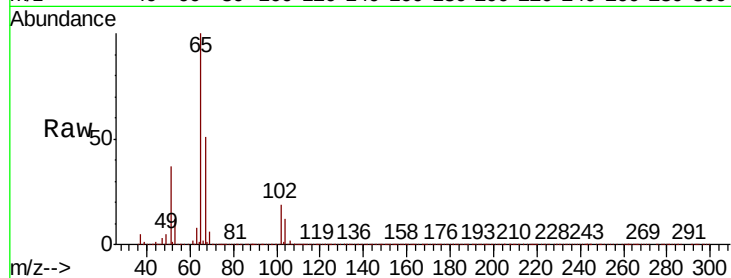
239-WC-L-01

Tot Ion: 65 Resp: 739973

Ion Ratio Lower Upper

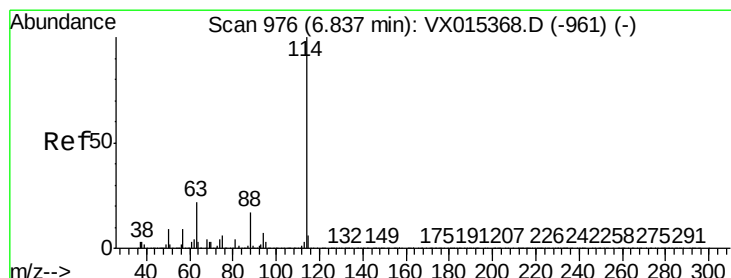
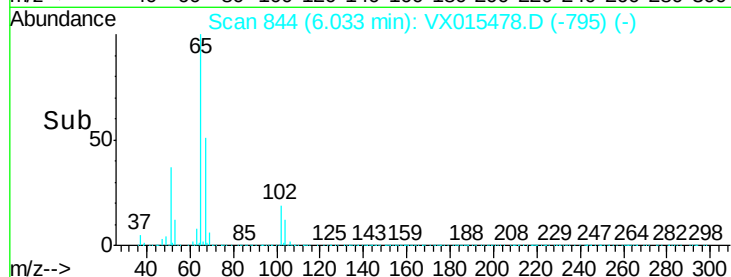
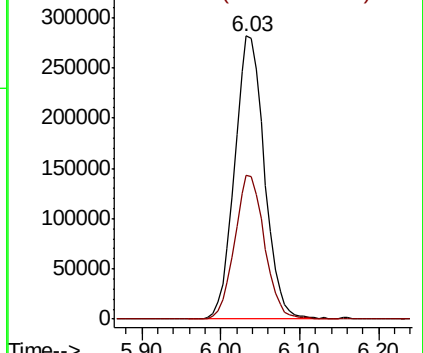
65 100

67 50.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

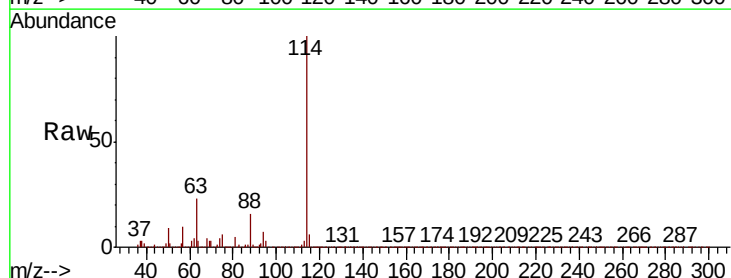
Tgt Ion: 114 Resp: 1766645

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.2

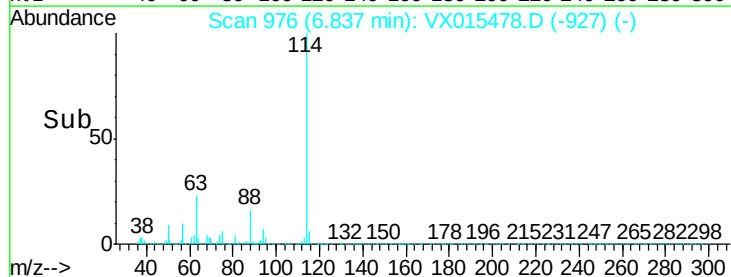
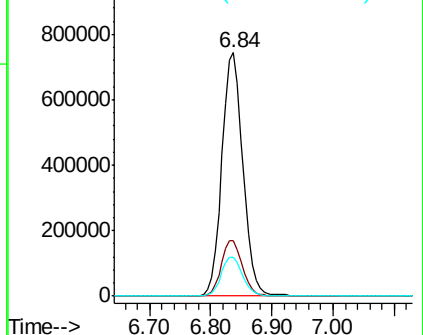
88 15.9 0.0 33.8

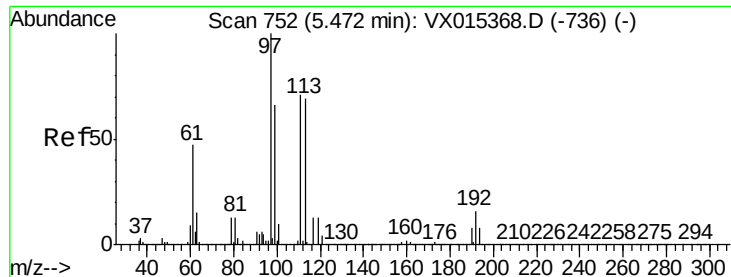


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

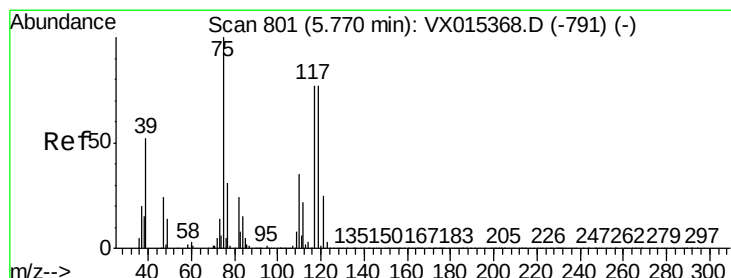
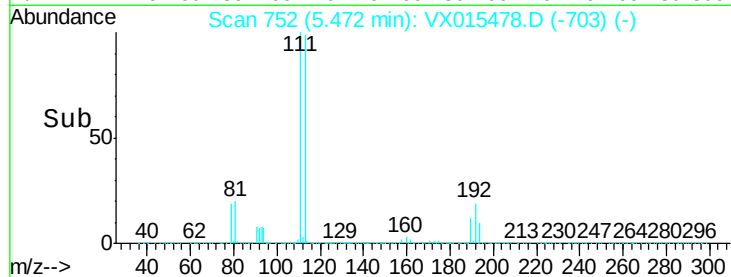
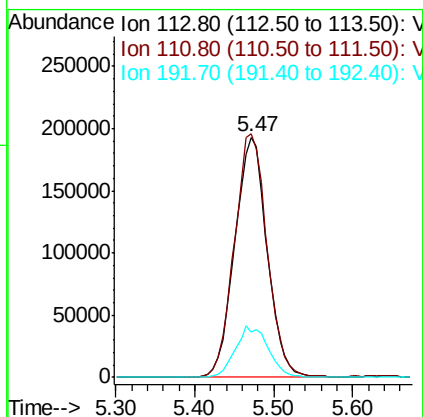
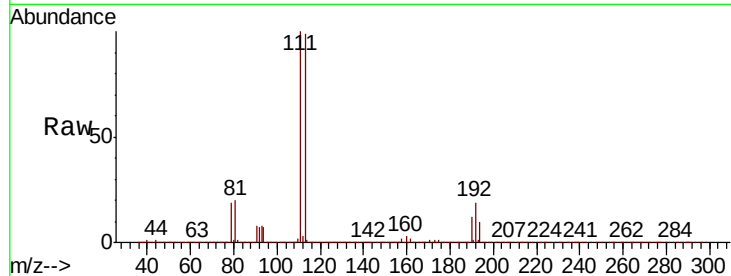




#35  
 Dibromofluoromethane  
 Concen: 48.608 ug/l  
 RT: 5.47 min Scan# 752  
 Delta R.T. -0.00 min  
 Lab File: VX015478.D  
 Acq: 02 Apr 2020 13:51

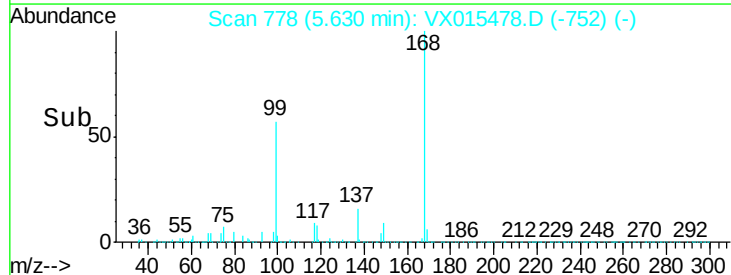
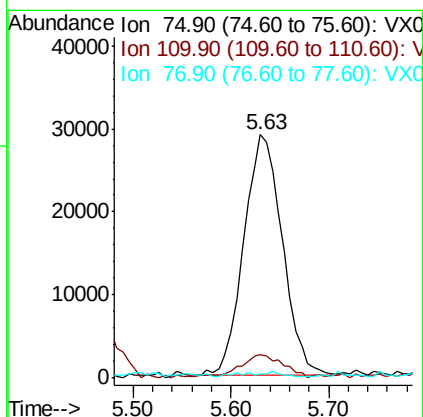
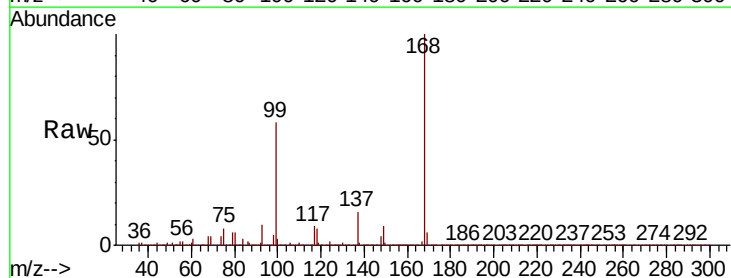
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 239-WC-L-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.5  | 122.3 |
| 192     | 21.8  | 17.8  | 26.6  |

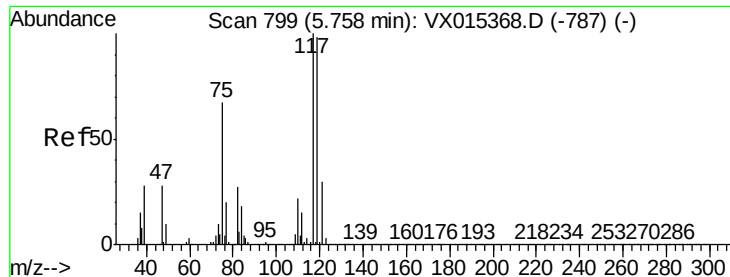


#36  
 1,1-Dichloropropene  
 Concen: 4.888 ug/l  
 RT: 5.63 min Scan# 778  
 Delta R.T. -0.14 min  
 Lab File: VX015478.D  
 Acq: 02 Apr 2020 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.1  | 17.1  | 51.3# |
| 77      | 0.9   | 24.6  | 36.8# |



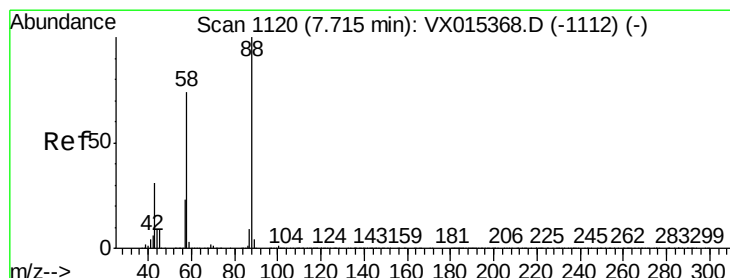
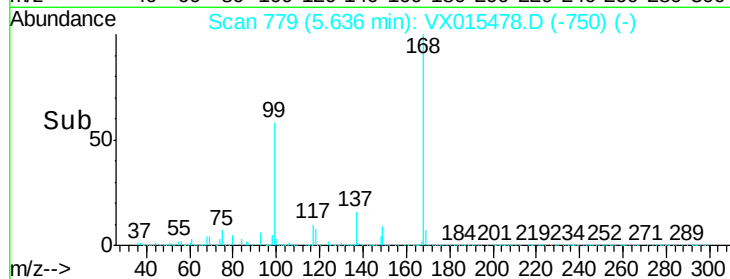
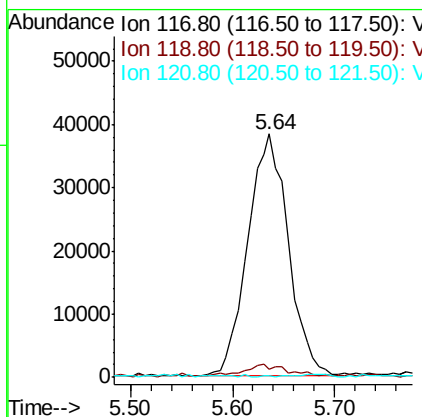
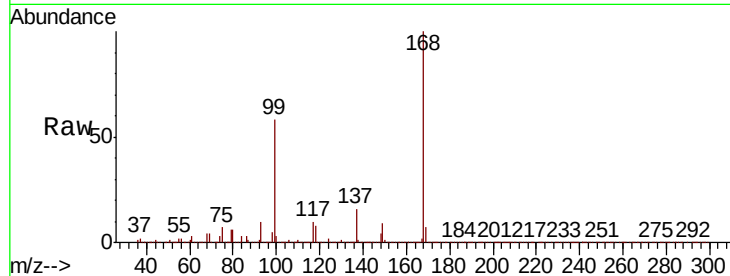




#38  
Carbon Tetrachloride  
Concen: 5.973 ug/l  
RT: 5.64 min Scan# 779  
Delta R.T. -0.12 min  
Lab File: VX015478.D  
Acq: 02 Apr 2020 13:51

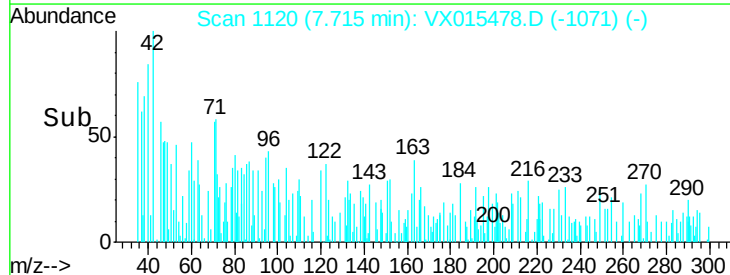
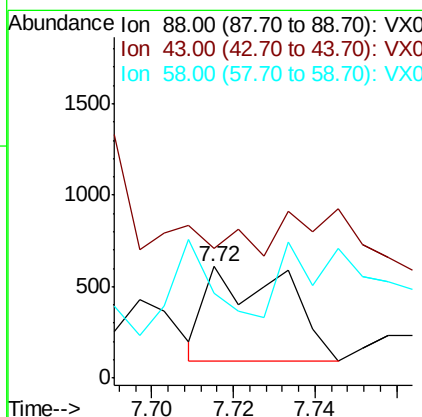
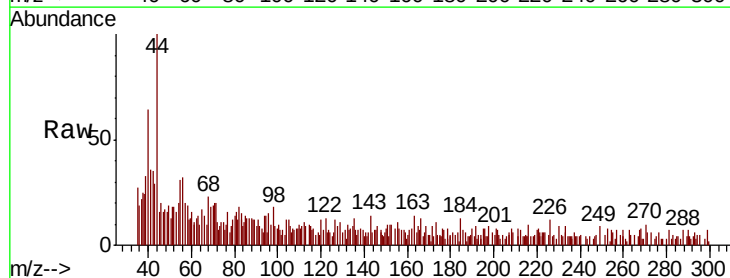
Instrument :  
MSVOA\_X  
ClientSampleId :  
239-WC-L-01

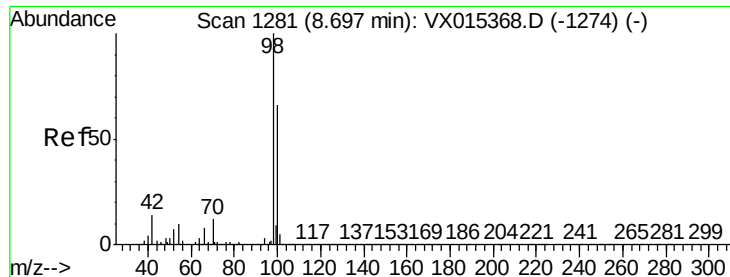
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 2.9   | 78.0  | 117.0# |
| 121     | 0.1   | 23.8  | 35.8#  |



#49  
1,4-Dioxane  
Concen: 2.091 ug/l  
RT: 7.72 min Scan# 1120  
Delta R.T. -0.00 min  
Lab File: VX015478.D  
Acq: 02 Apr 2020 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 0.0   | 30.1  | 45.1# |
| 58      | 61.0  | 60.6  | 90.8  |





#50

Toluene-d8

Concen: 51.187 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampleId :

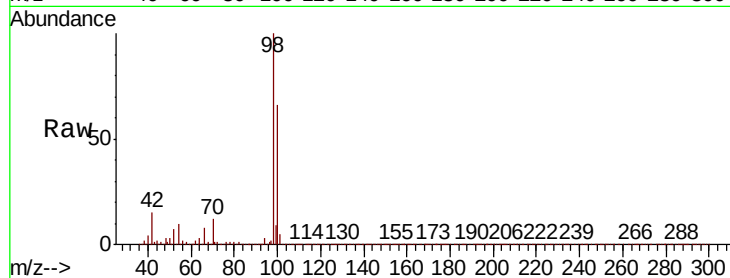
239-WC-L-01

Tot Ion: 98 Resp: 2128200

Ion Ratio Lower Upper

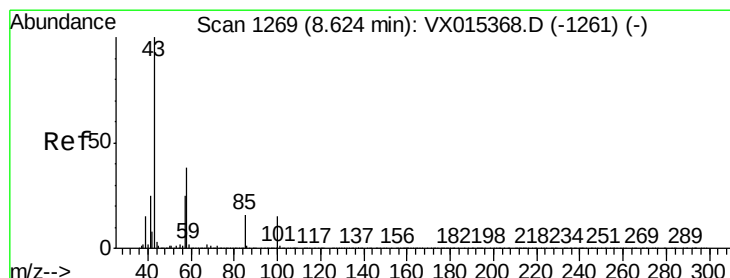
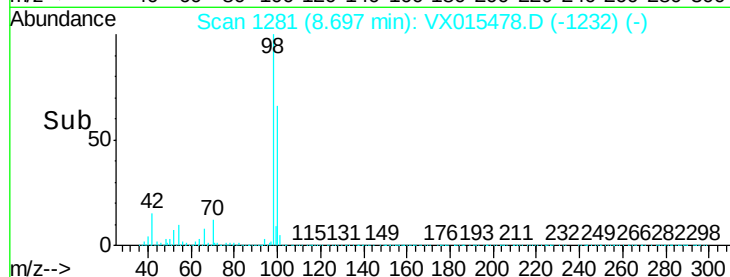
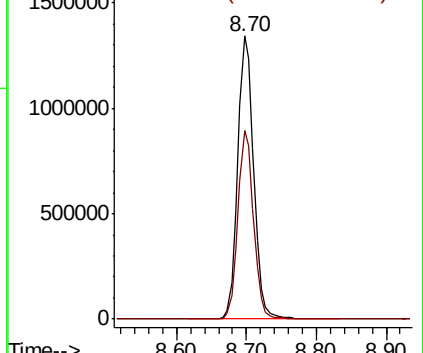
98 100

100 65.7 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.421 ug/l

RT: 8.62 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VX015478.D

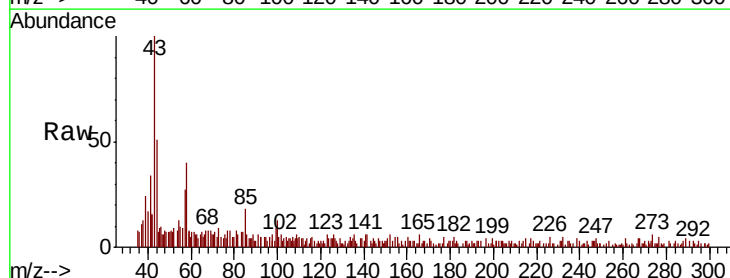
Acq: 02 Apr 2020 13:51

Tgt Ion: 43 Resp: 8532

Ion Ratio Lower Upper

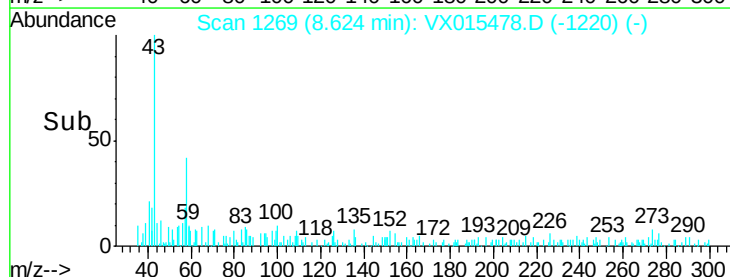
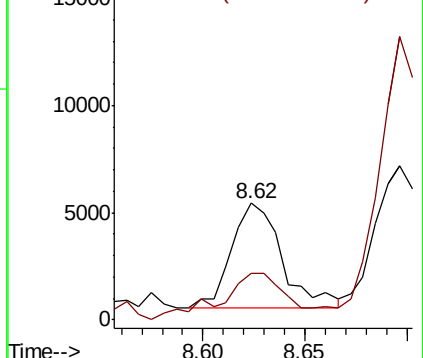
43 100

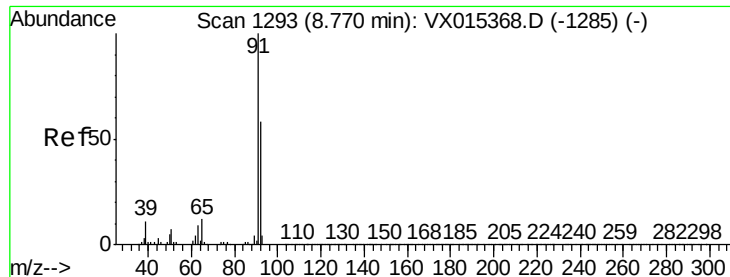
58 57.6 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 1.708 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampleId :

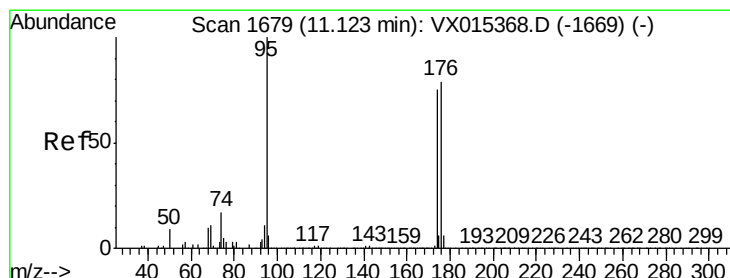
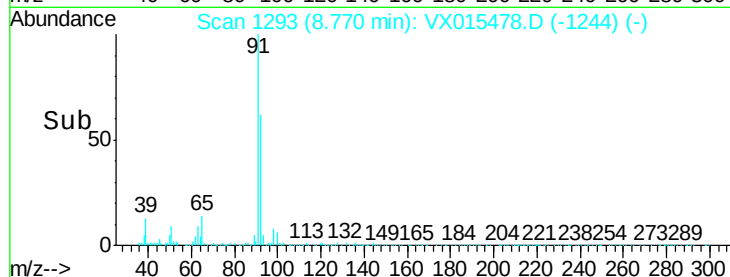
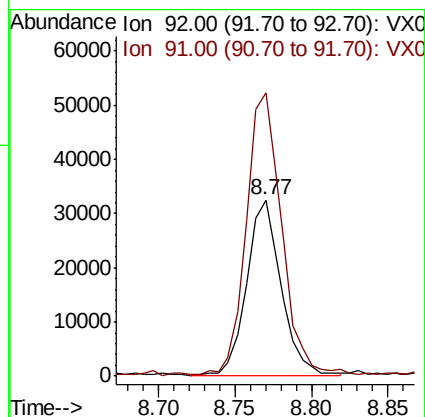
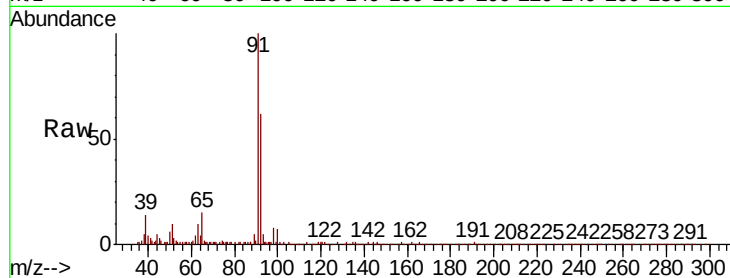
239-WC-L-01

Tot Ion: 92 Resp: 50205

Ion Ratio Lower Upper

92 100

91 165.8 136.6 205.0



#62

4-Bromofluorobenzene

Concen: 53.294 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

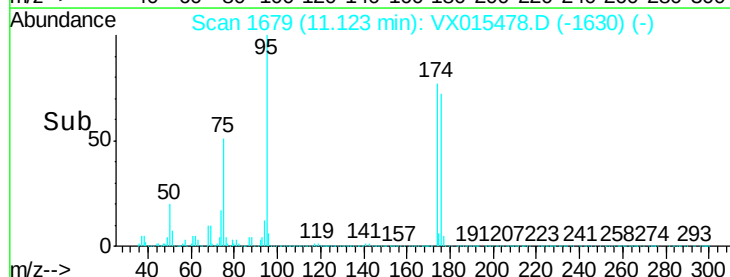
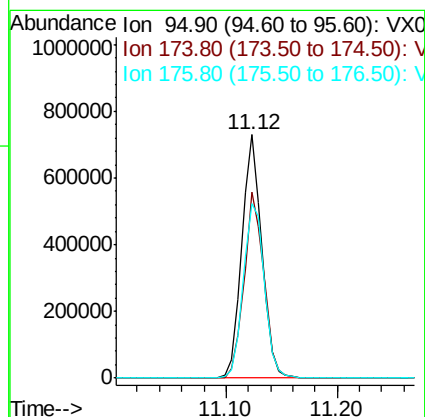
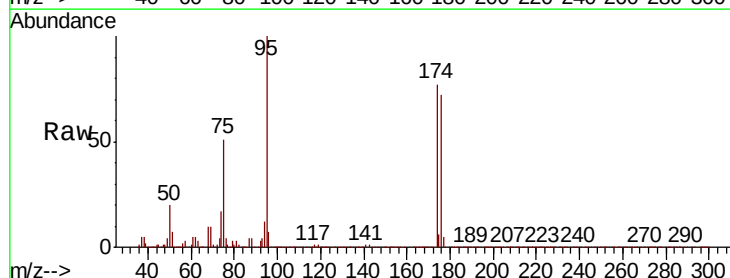
Tgt Ion: 95 Resp: 900510

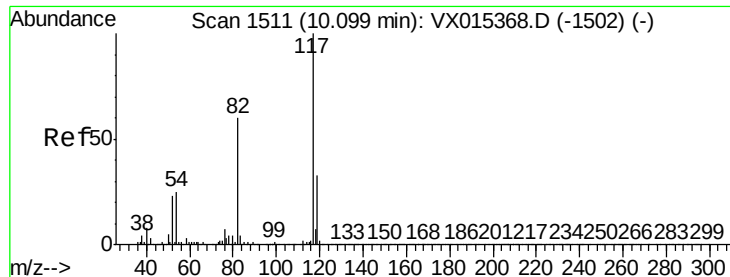
Ion Ratio Lower Upper

95 100

174 76.3 0.0 158.6

176 76.4 0.0 159.0

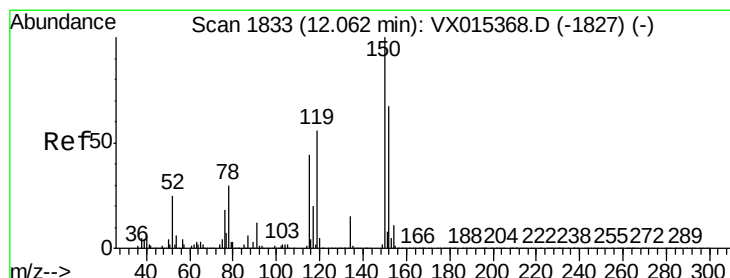
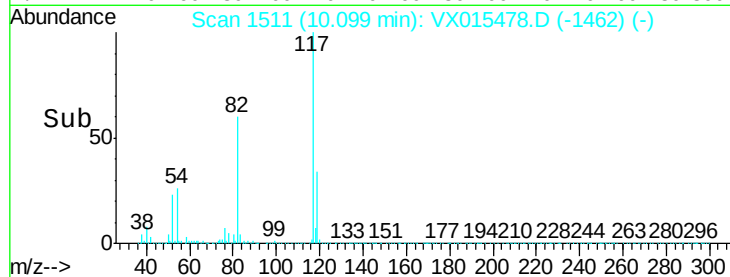
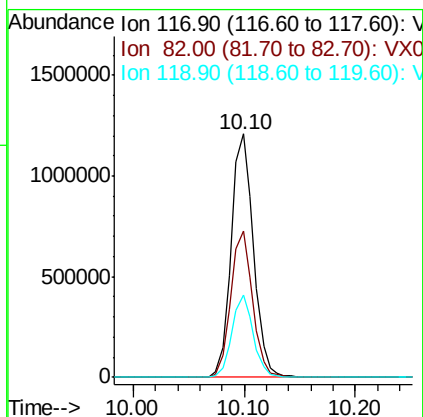
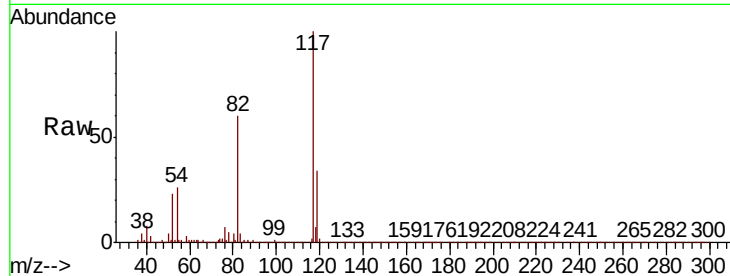




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. -0.00 min  
Lab File: VX015478.D  
Acq: 02 Apr 2020 13:51

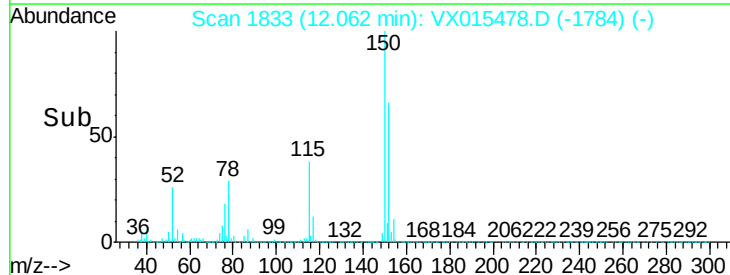
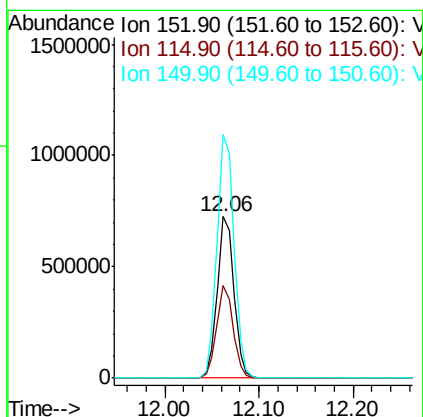
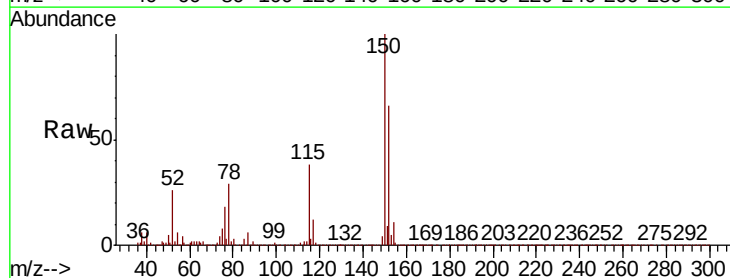
Instrument :  
MSVOA\_X  
ClientSampleId :  
239-WC-L-01

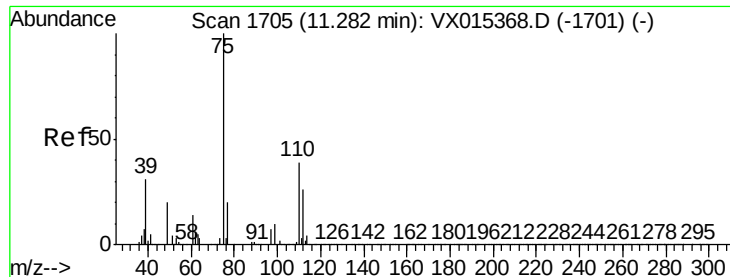
Tot Ion:117 Resp: 1663427  
Ion Ratio Lower Upper  
117 100  
82 60.3 47.8 71.8  
119 33.7 26.8 40.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. -0.00 min  
Lab File: VX015478.D  
Acq: 02 Apr 2020 13:51

Tgt Ion:152 Resp: 895384  
Ion Ratio Lower Upper  
152 100  
115 57.1 39.0 116.9  
150 155.2 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 25.554 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Instrument :

MSVOA\_X

ClientSampleId :

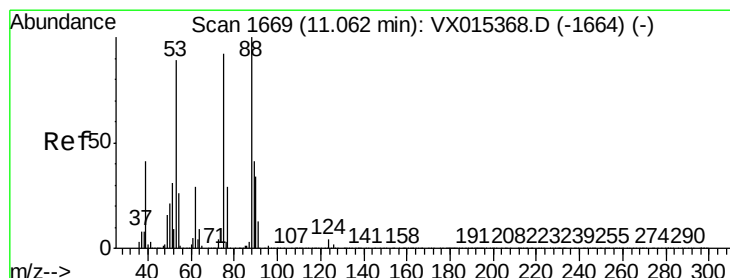
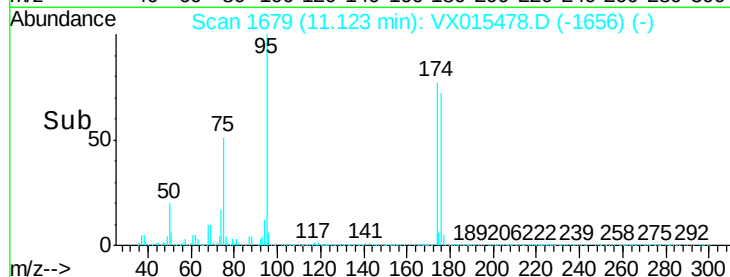
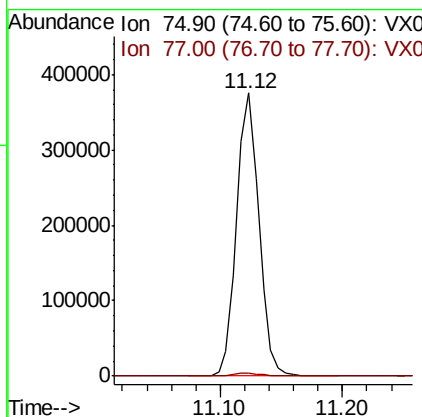
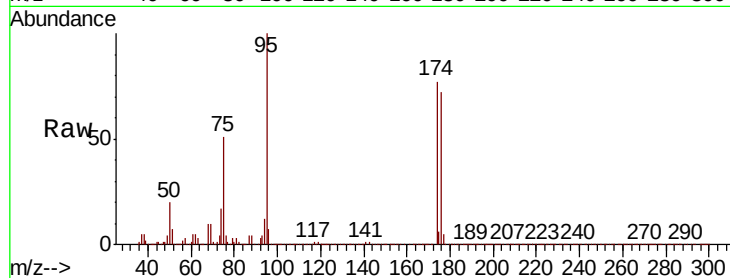
239-WC-L-01

Tot Ion: 75 Resp: 470529

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.317 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015478.D

Acq: 02 Apr 2020 13:51

Tgt Ion: 75 Resp: 470529

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#

