

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062419\  
 Data File : VX010406.D  
 Acq On : 24 Jun 2019 12:31  
 Operator : JC/SP  
 Sample : K3499-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-B-6

Quant Time: Jun 25 03:36:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 290244   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 442024   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 405499   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 199971   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 133971   | 49.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.46%  |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 135254   | 50.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.02% |      |
| 50) Toluene-d8            | 8.71   | 98  | 527948   | 51.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.06% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 184857   | 49.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.98%  |      |

## Target Compounds

|                           |       |     |        |        | Qvalue |    |
|---------------------------|-------|-----|--------|--------|--------|----|
| 3) Chloromethane          | 1.33  | 50  | 1123   | 0.478  | ug/l   | 92 |
| 5) Bromomethane           | 1.65  | 94  | 758    | 0.605  | ug/l # | 72 |
| 10) Methyl Iodide         | 2.51  | 142 | 864    | 0.245  | ug/l # | 72 |
| 11) Tert butyl alcohol    | 3.03  | 59  | 1544   | 2.168  | ug/l # | 74 |
| 13) Acrolein              | 2.25  | 56  | 136    | 0.288  | ug/l # | 1  |
| 14) Allyl chloride        | 2.84  | 41  | 18685  | 5.231  | ug/l # | 62 |
| 15) Acrylonitrile         | 3.17  | 53  | 5713   | 4.052  | ug/l # | 43 |
| 16) Acetone               | 2.44  | 43  | 16718  | 12.258 | ug/l   | 91 |
| 17) Carbon Disulfide      | 2.57  | 76  | 1489   | 0.221  | ug/l # | 92 |
| 18) Methyl Acetate        | 2.84  | 43  | 49536  | 18.224 | ug/l # | 48 |
| 20) Methylene Chloride    | 2.86  | 84  | 1127   | 0.402  | ug/l # | 52 |
| 25) 2-Butanone            | 4.67  | 43  | 18660  | 9.327  | ug/l   | 98 |
| 29) Tetrahydrofuran       | 5.12  | 42  | 390    | 0.315  | ug/l # | 50 |
| 30) Chloroform            | 5.21  | 83  | 26135  | 5.627  | ug/l   | 94 |
| 31) Cyclohexane           | 5.59  | 56  | 89203  | 22.693 | ug/l   | 87 |
| 36) 1,1-Dichloropropene   | 5.66  | 75  | 17930  | 5.105  | ug/l # | 47 |
| 37) Ethyl Acetate         | 4.67  | 43  | 18660  | 5.164  | ug/l # | 66 |
| 38) Carbon Tetrachloride  | 5.67  | 117 | 25281  | 6.647  | ug/l # | 16 |
| 39) Methylcyclohexane     | 7.46  | 83  | 203464 | 44.067 | ug/l   | 95 |
| 43) Isopropyl Acetate     | 6.46  | 43  | 4803   | 0.803  | ug/l # | 59 |
| 47) Bromodichloromethane  | 7.85  | 83  | 4675   | 1.287  | ug/l # | 1  |
| 48) Methyl methacrylate   | 7.74  | 41  | 15413  | 5.546  | ug/l # | 47 |
| 49) 1,4-Dioxane           | 7.93  | 88  | 31     | 0.387  | ug/l # | 28 |
| 51) 4-Methyl-2-Pentanone  | 8.68  | 43  | 23922  | 6.256  | ug/l # | 69 |
| 52) Toluene               | 8.79  | 92  | 7705   | 1.069  | ug/l   | 96 |
| 55) 1,1,2-Trichloroethane | 9.26  | 97  | 3487   | 1.173  | ug/l # | 1  |
| 56) Ethyl methacrylate    | 9.16  | 69  | 15673  | 3.481  | ug/l # | 1  |
| 59) 2-Hexanone            | 9.49  | 43  | 5707   | 1.896  | ug/l   | 77 |
| 64) Tetrachloroethene     | 9.34  | 164 | 2588   | 0.789  | ug/l # | 82 |
| 67) Ethyl Benzene         | 10.25 | 91  | 316956 | 22.806 | ug/l   | 99 |
| 68) m/p-Xylenes           | 10.36 | 106 | 323717 | 60.113 | ug/l   | 99 |
| 69) o-Xylene              | 10.69 | 106 | 56422  | 10.654 | ug/l   | 97 |
| 70) Styrene               | 10.69 | 104 | 2839   | 0.320  | ug/l # | 1  |
| 73) Isopropylbenzene      | 11.02 | 105 | 139694 | 10.305 | ug/l   | 99 |

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 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

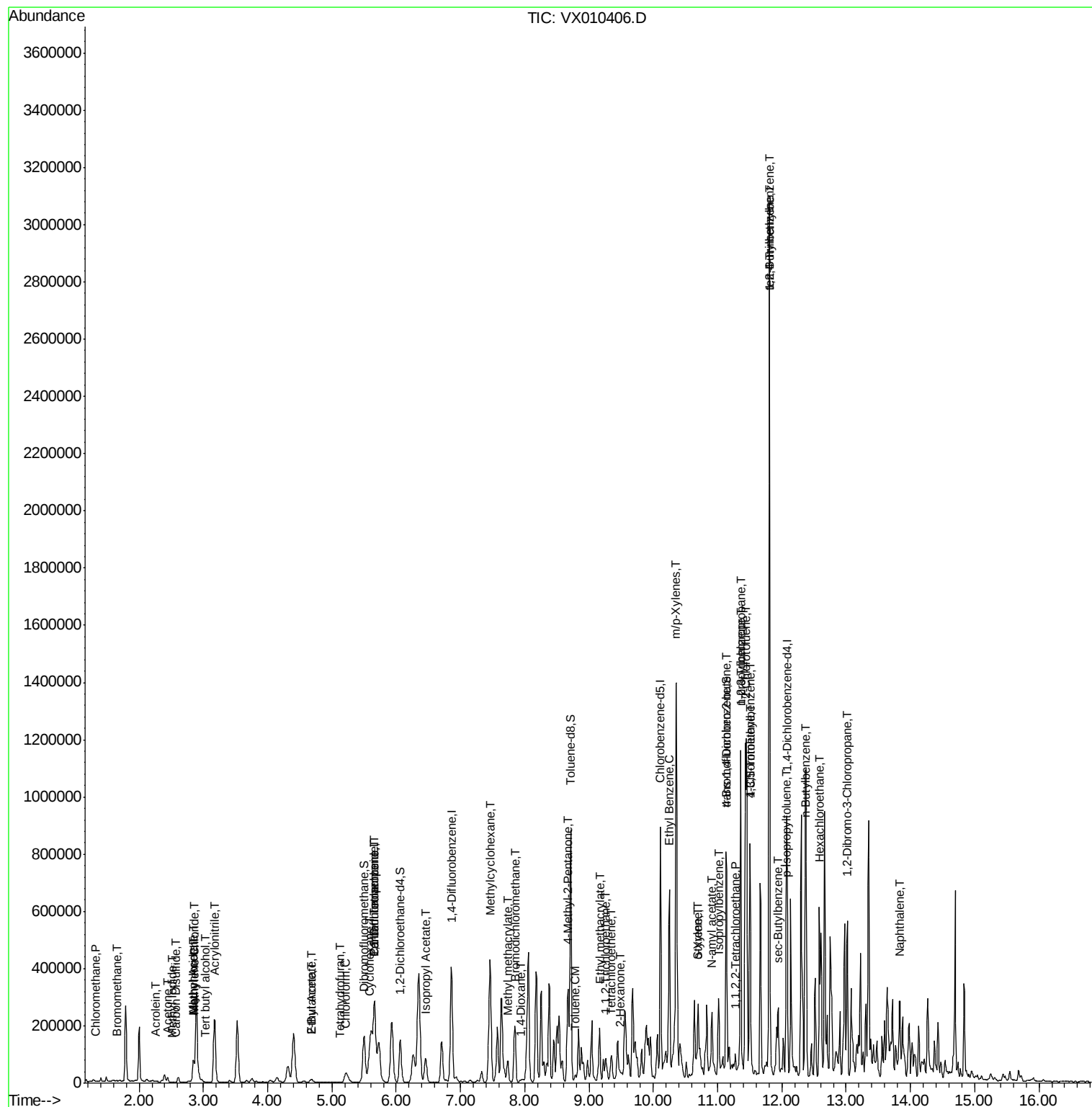
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |     |
|--------------------------------|-------|------|----------|---------|-------|----------|-----|
| 74) N-amyl acetate             | 10.91 | 43   | 9812     | 1.915   | ug/l  | #        | 1   |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 4074     | 0.908   | ug/l  | #        | 26  |
| 76) 1,2,3-Trichloropropane     | 11.36 | 75   | 4050     | 1.111   | ug/l  | #        | 1   |
| 78) n-propylbenzene            | 11.36 | 91   | 692819   | 46.504  | ug/l  |          | 100 |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 125790   | 14.179  | ug/l  | #        | 38  |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 341953   | 30.600  | ug/l  |          | 100 |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 86837    | 55.593  | ug/l  | #        | 17  |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 35475    | 3.514   | ug/l  | #        | 44  |
| 83) tert-Butylbenzene          | 11.80 | 119  | 164836   | 14.696  | ug/l  | #        | 60  |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1313756  | 117.014 | ug/l  |          | 98  |
| 85) sec-Butylbenzene           | 11.94 | 105  | 95720    | 7.268   | ug/l  |          | 95  |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 38049    | 3.124   | ug/l  |          | 96  |
| 89) n-Butylbenzene             | 12.38 | 91   | 164511   | 15.893  | ug/l  | #        | 23  |
| 90) Hexachloroethane           | 12.58 | 117  | 24956    | 11.848  | ug/l  | #        | 5   |
| 92) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 1497     | 1.547   | ug/l  | #        | 1   |
| 95) Naphthalene                | 13.83 | 128  | 170025   | 12.150  | ug/l  |          | 97  |

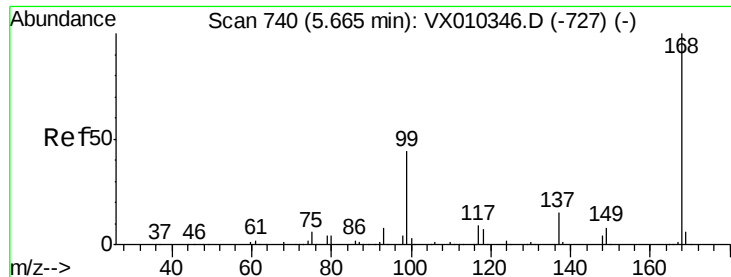
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

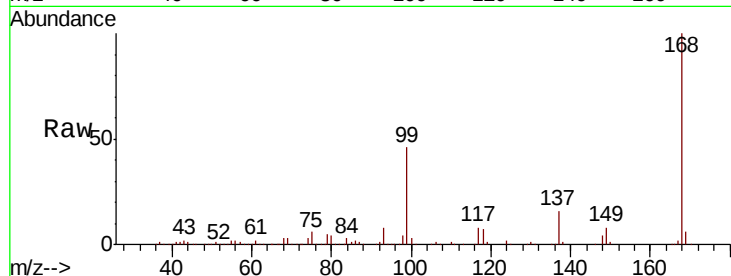
TWP-B-6

Tot Ion:168 Resp: 290244

Ion Ratio Lower Upper

168 100

99 45.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

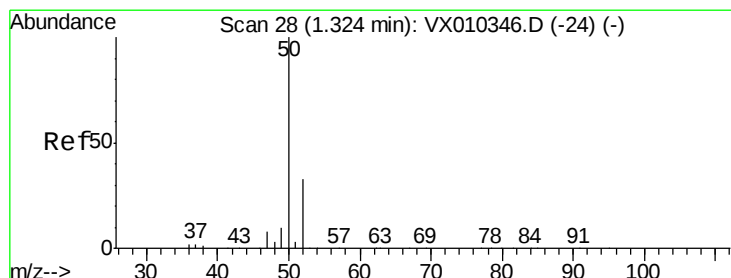
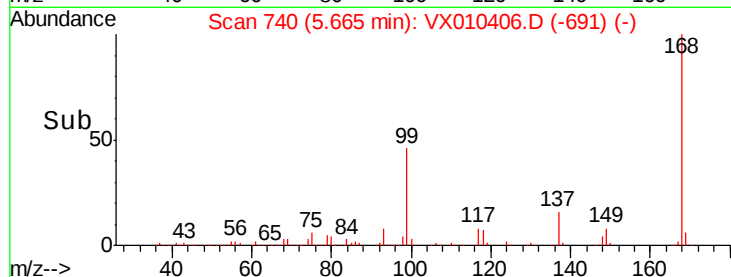
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.478 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010406.D

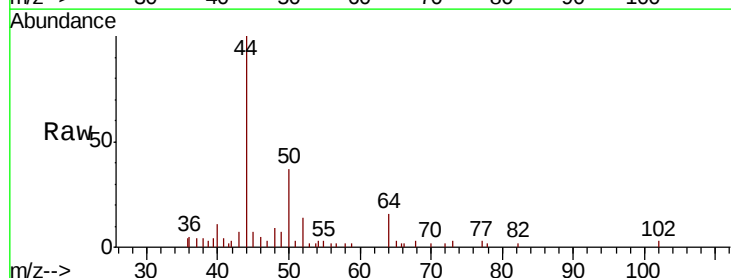
Acq: 24 Jun 2019 12:31

Tgt Ion: 50 Resp: 1123

Ion Ratio Lower Upper

50 100

52 37.4 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1000

800

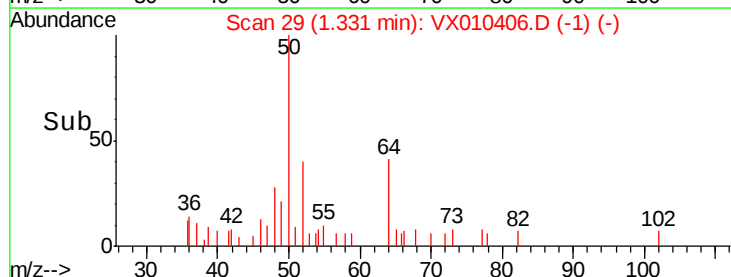
600

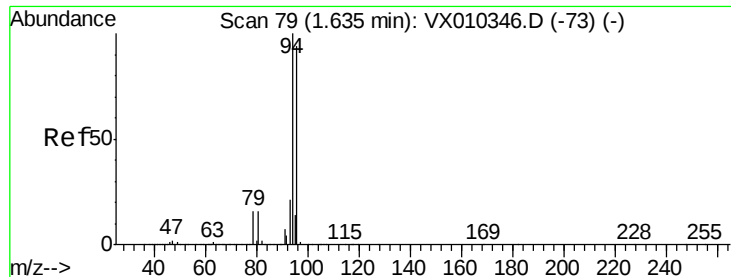
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.605 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

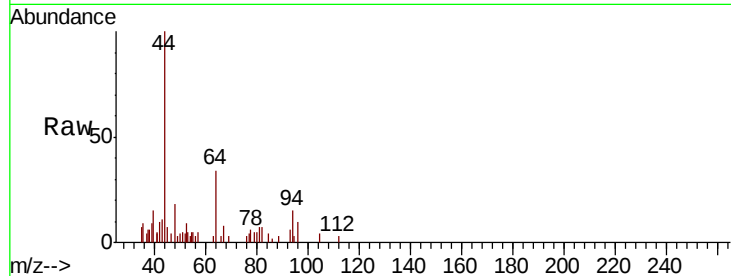
TWP-B-6

Tot Ion: 94 Resp: 758

Ion Ratio Lower Upper

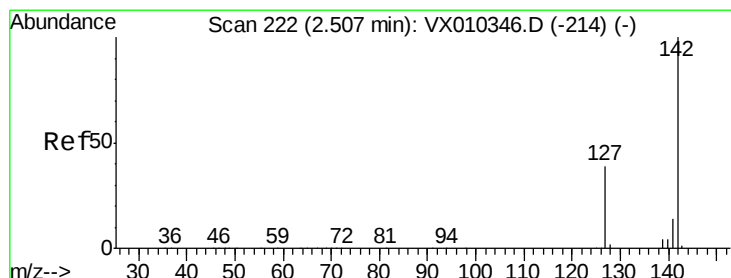
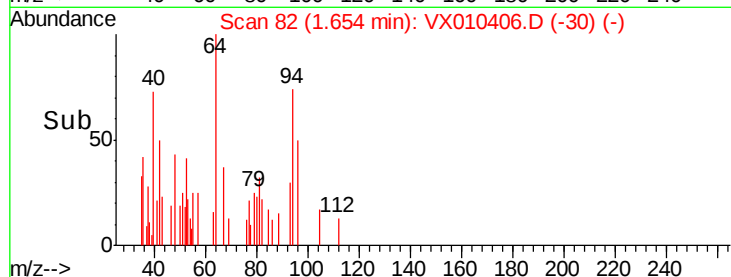
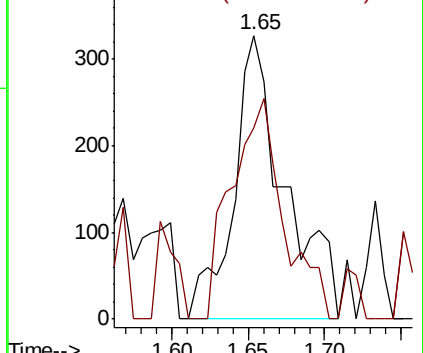
94 100

96 67.3 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.245 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

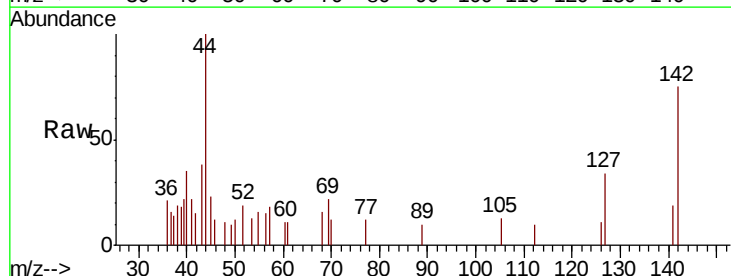
Tgt Ion: 142 Resp: 864

Ion Ratio Lower Upper

142 100

127 57.8 31.1 46.7#

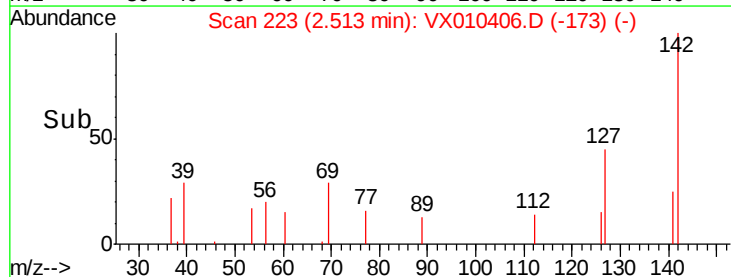
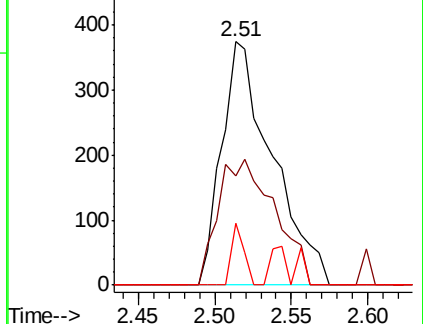
141 6.1 11.2 16.8#

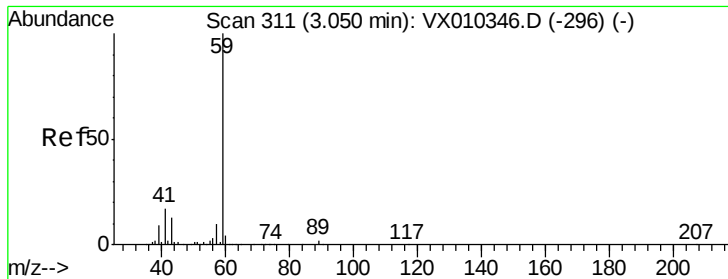


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



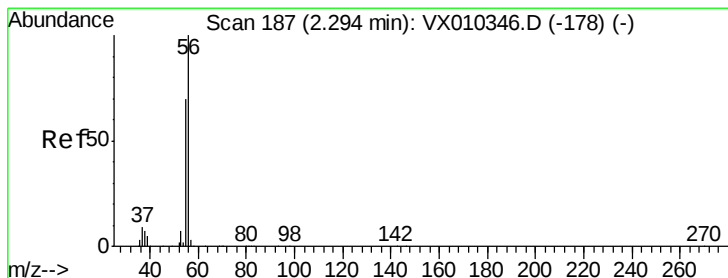
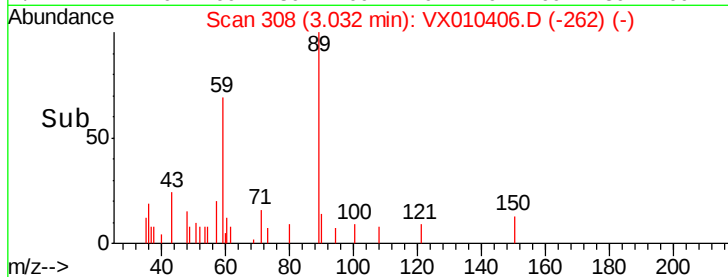
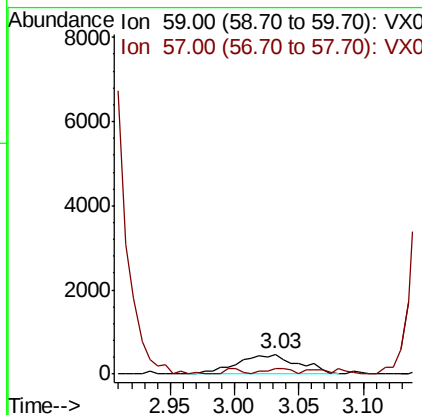
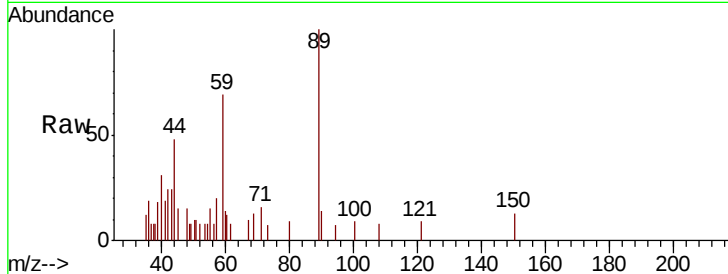


#11

Tert butyl alcohol  
 Concen: 2.168 ug/l  
 RT: 3.03 min Scan# 308  
 Delta R.T. -0.02 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-B-6

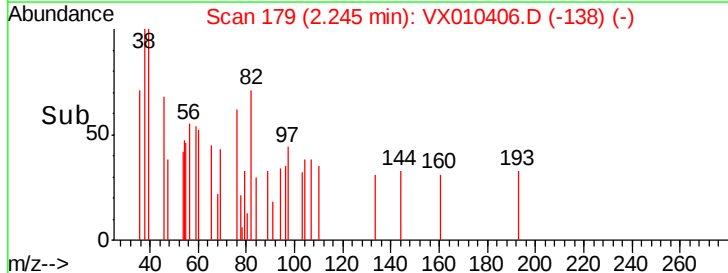
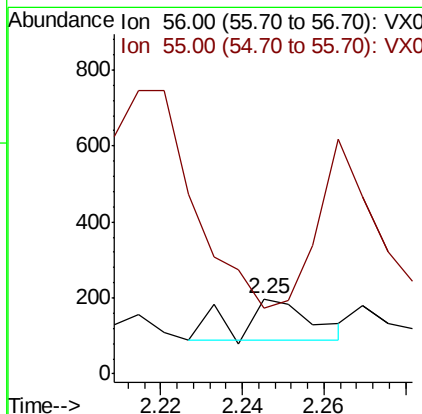
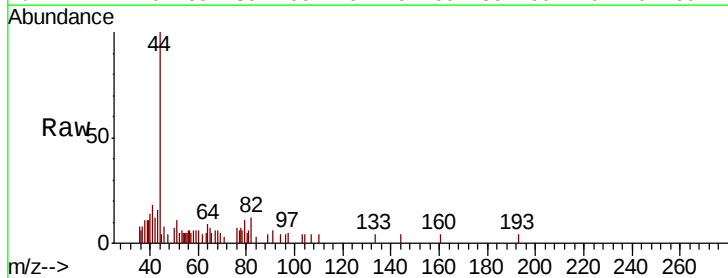
Tot Ion: 59 Resp: 1544  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.7 11.5#

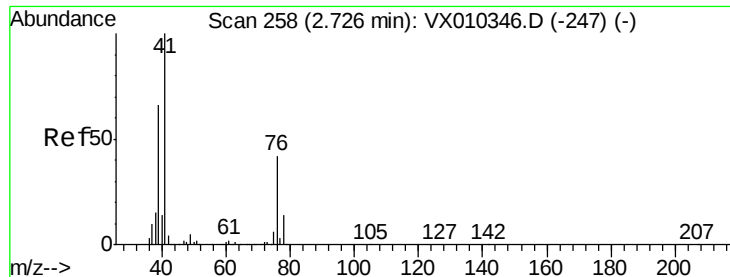


#13

Acrolein  
 Concen: 0.288 ug/l  
 RT: 2.25 min Scan# 179  
 Delta R.T. -0.05 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Tgt Ion: 56 Resp: 136  
 Ion Ratio Lower Upper  
 56 100  
 55 326.5 56.9 85.3#





#14

Allvl chloride

Concen: 5.231 ug/l

RT: 2.84 min Scan# 277

Delta R.T. 0.12 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampled :

TWP-B-6

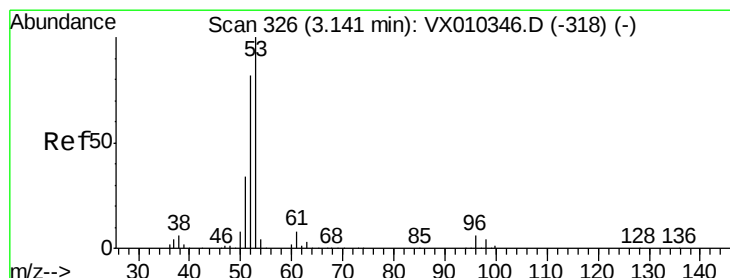
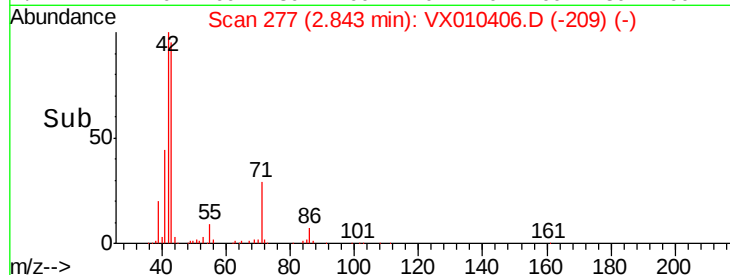
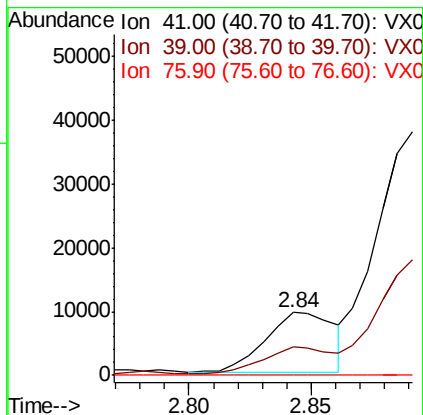
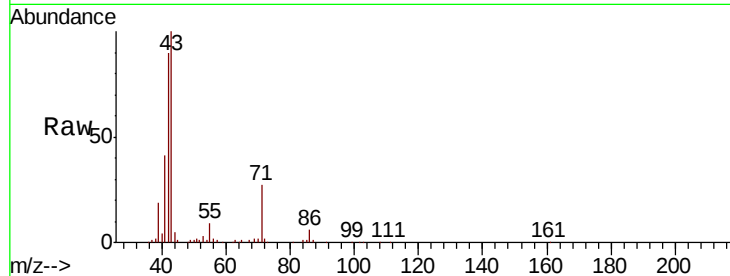
Tot Ion: 41 Resp: 18685

Ion Ratio Lower Upper

41 100

39 45.7 50.3 75.5#

76 0.0 31.3 46.9#



#15

Acrylonitrile

Concen: 4.052 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.03 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

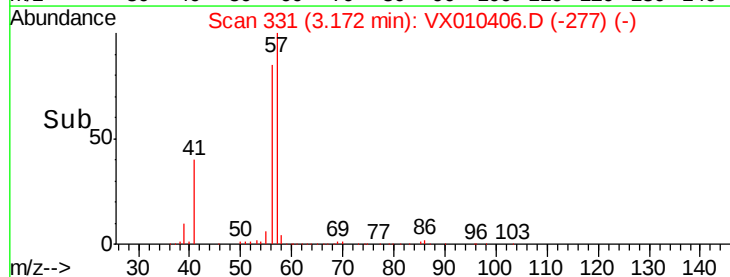
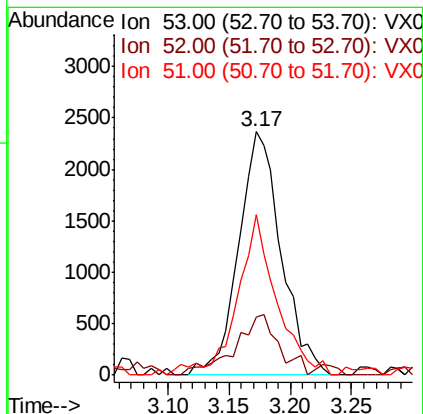
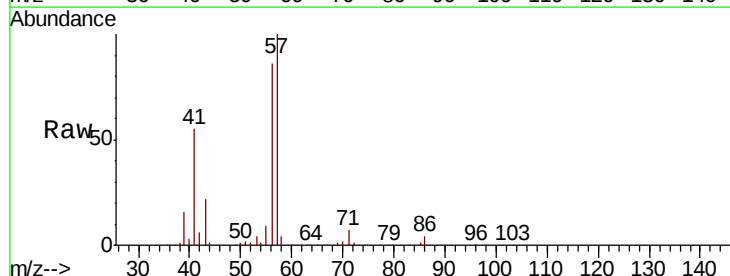
Tgt Ion: 53 Resp: 5713

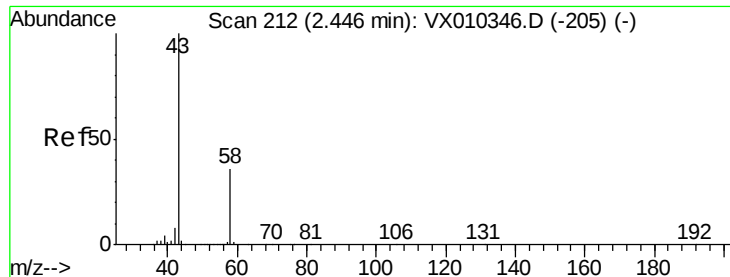
Ion Ratio Lower Upper

53 100

52 26.1 65.5 98.3#

51 61.2 28.2 42.4#





#16

Acetone

Concen: 12.258 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

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ClientSampleId :

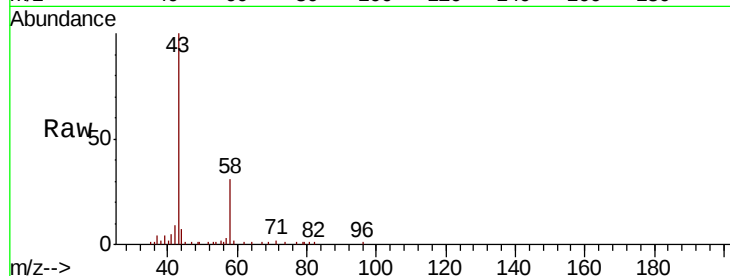
TWP-B-6

Tot Ion: 43 Resp: 16718

Ion Ratio Lower Upper

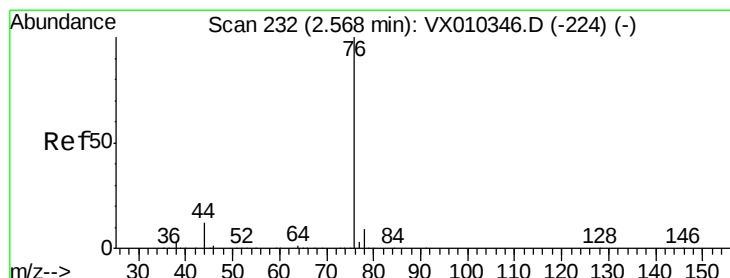
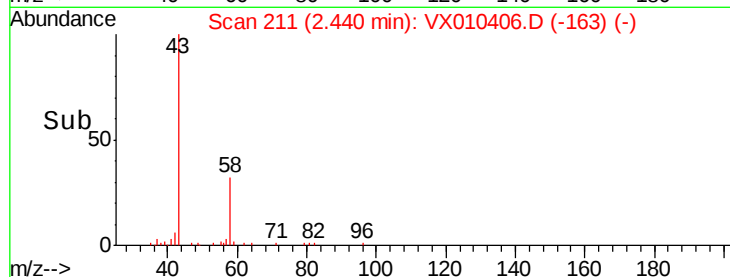
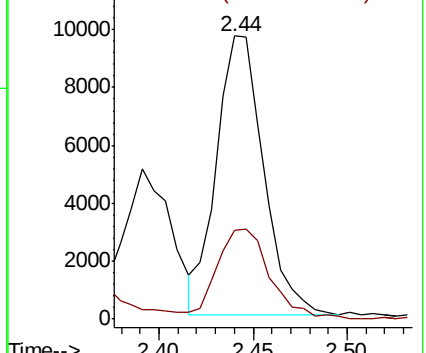
43 100

58 30.9 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.221 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010406.D

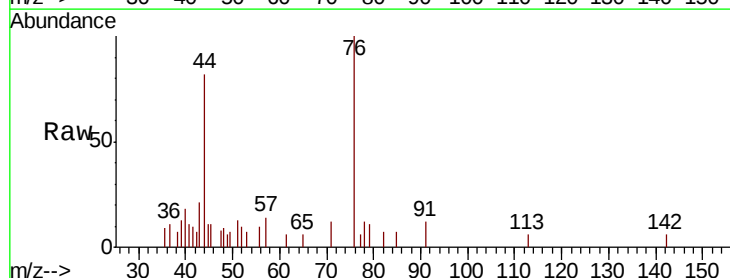
Acq: 24 Jun 2019 12:31

Tgt Ion: 76 Resp: 1489

Ion Ratio Lower Upper

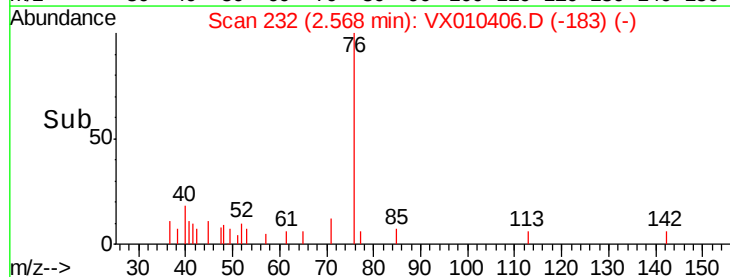
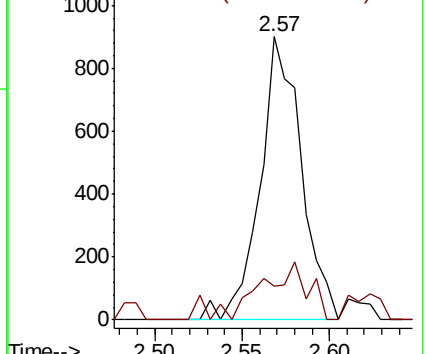
76 100

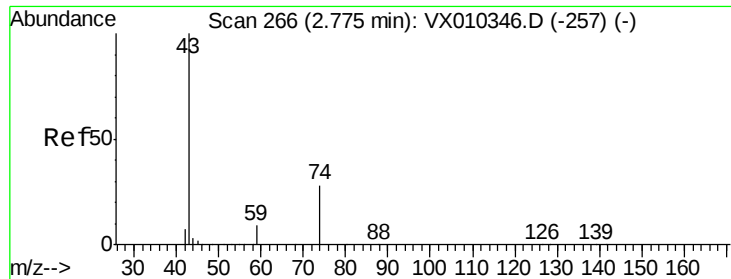
78 11.9 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

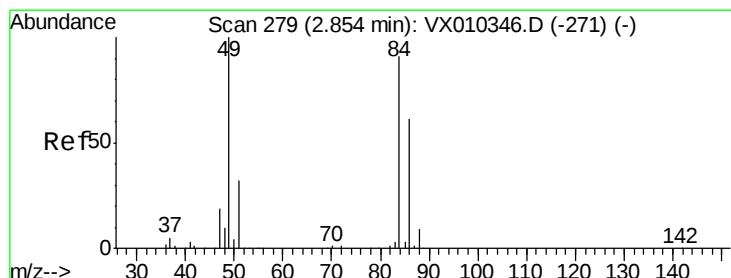
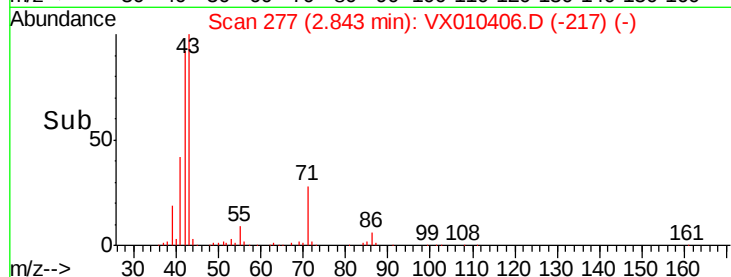
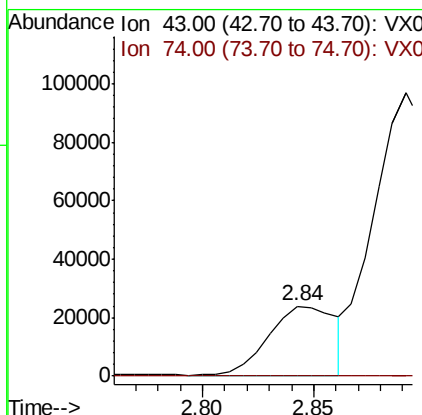
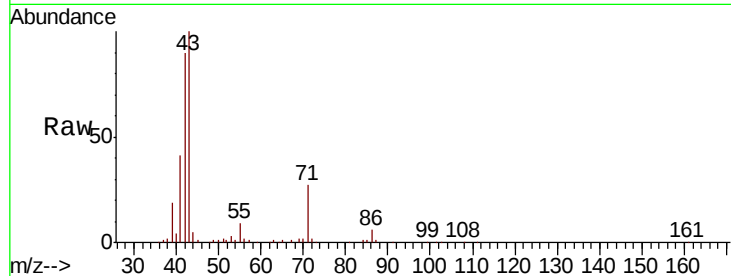




#18  
Methyl Acetate  
Concen: 18.224 ug/l  
RT: 2.84 min Scan# 277  
Delta R.T. 0.07 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

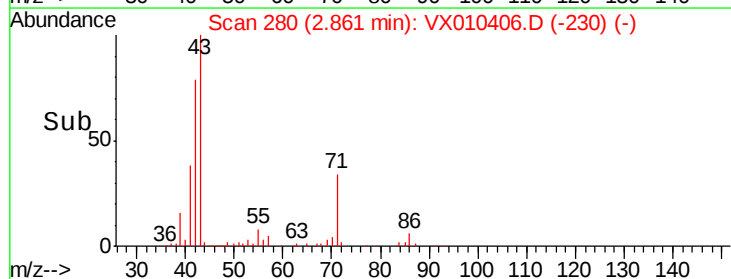
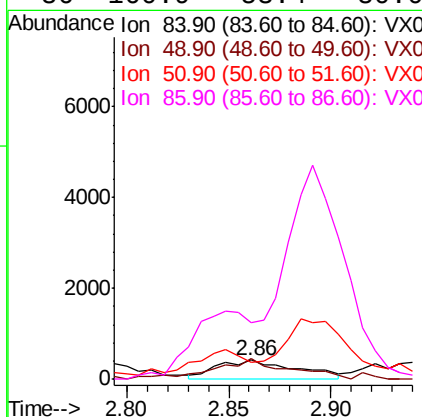
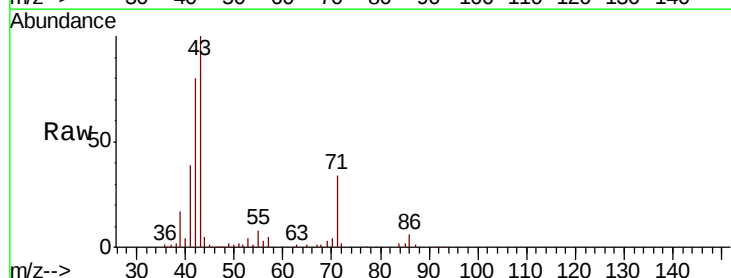
Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-B-6

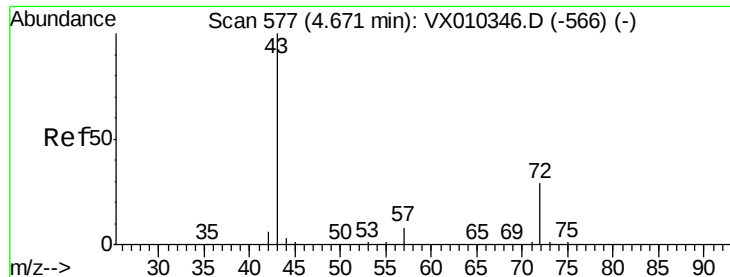
Tot Ion: 43 Resp: 49536  
Ion Ratio Lower Upper  
43 100  
74 0.1 21.3 31.9#



#20  
Methylene Chloride  
Concen: 0.402 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.01 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion: 84 Resp: 1127  
Ion Ratio Lower Upper  
84 100  
49 110.9 87.5 131.3  
51 0.0 27.7 41.5#  
86 160.9 53.4 80.0#





#25

2-Butanone

Concen: 9.327 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

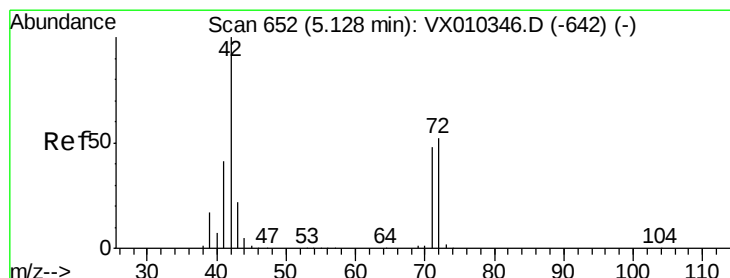
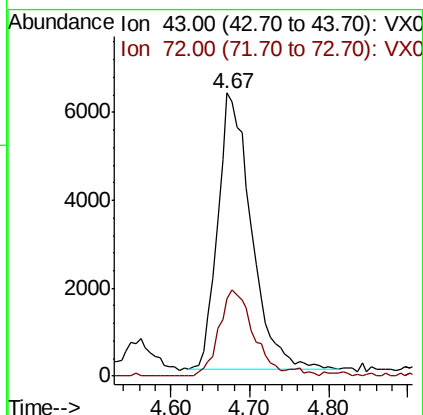
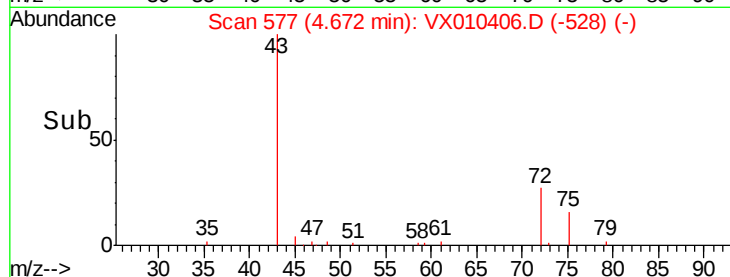
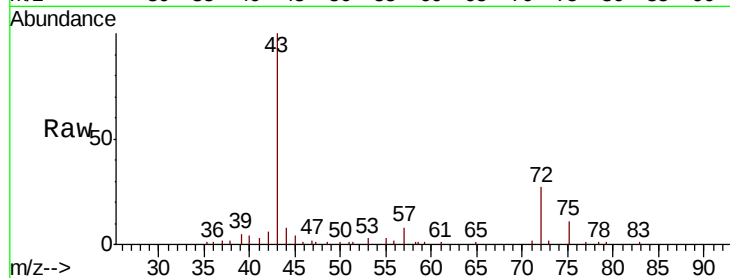
TWP-B-6

Tot Ion: 43 Resp: 18660

Ion Ratio Lower Upper

43 100

72 28.1 23.3 34.9



#29

Tetrahydrofuran

Concen: 0.315 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

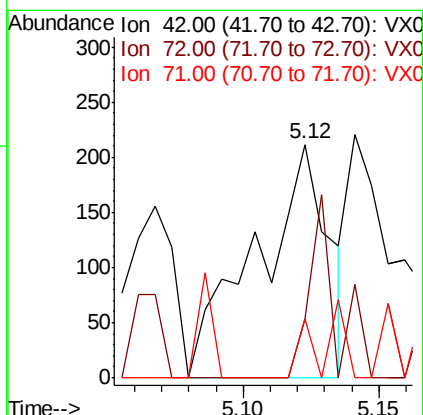
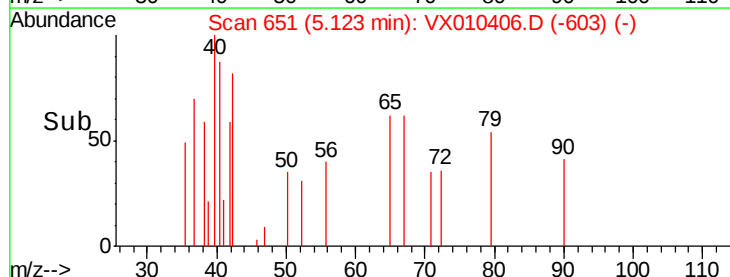
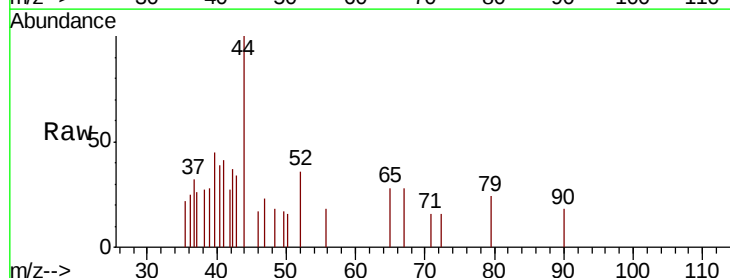
Tgt Ion: 42 Resp: 390

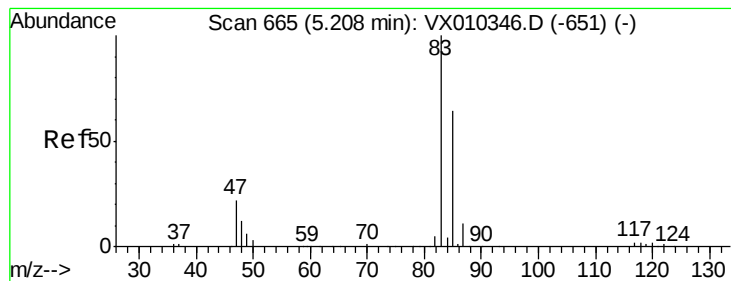
Ion Ratio Lower Upper

42 100

72 28.7 40.6 60.8#

71 0.0 37.8 56.8#





#30

Chloroform

Concen: 5.627 ug/l

RT: 5.21 min Scan# 665

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampled :

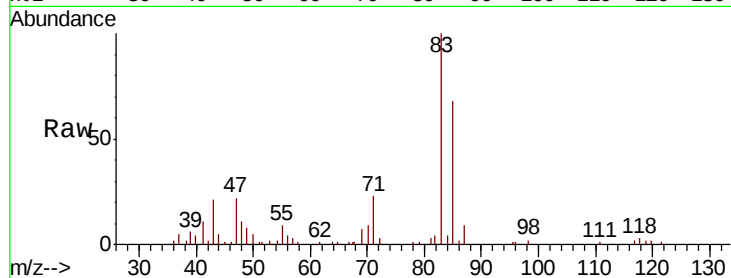
TWP-B-6

Tot Ion: 83 Resp: 26135

Ion Ratio Lower Upper

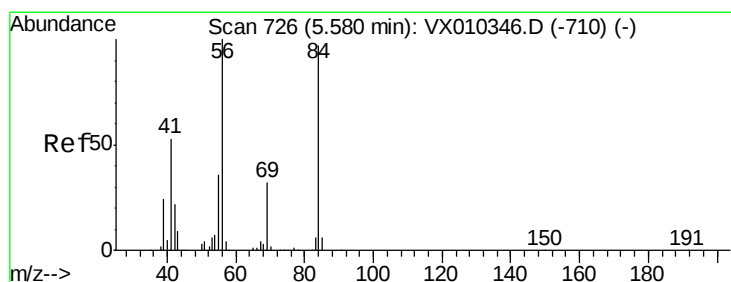
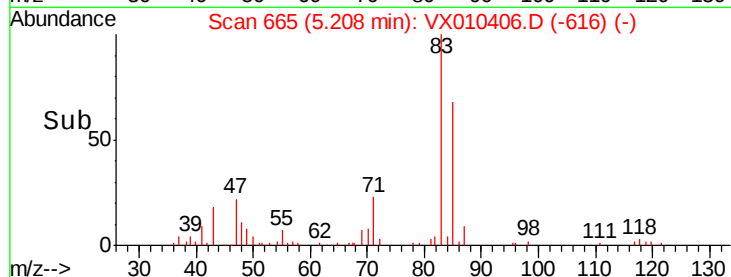
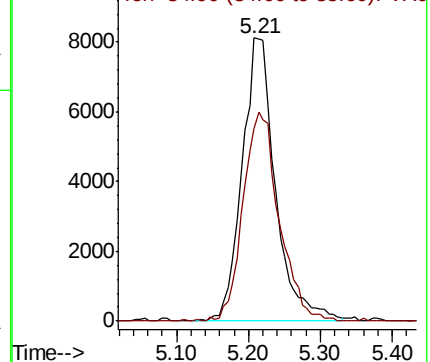
83 100

85 68.1 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#31

Cyclohexane

Concen: 22.693 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

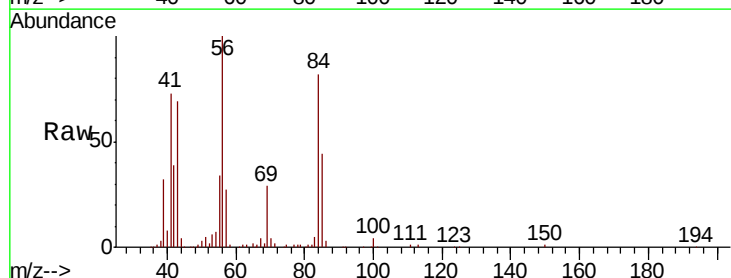
Tgt Ion: 56 Resp: 89203

Ion Ratio Lower Upper

56 100

69 27.8 25.9 38.9

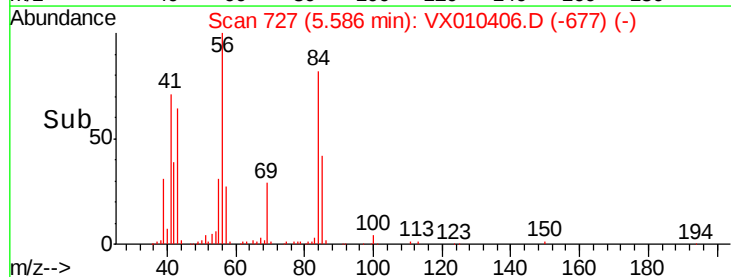
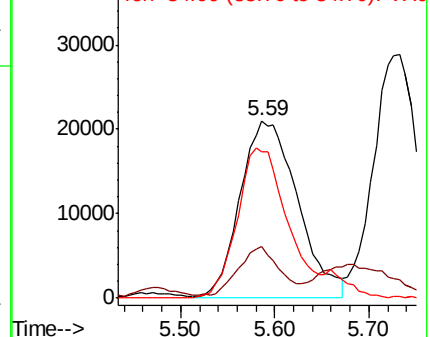
84 82.5 78.0 117.0

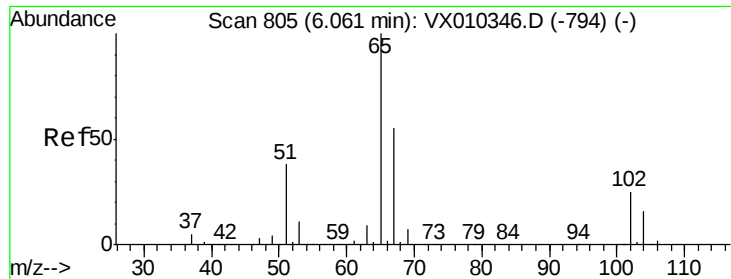


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.230 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampled :

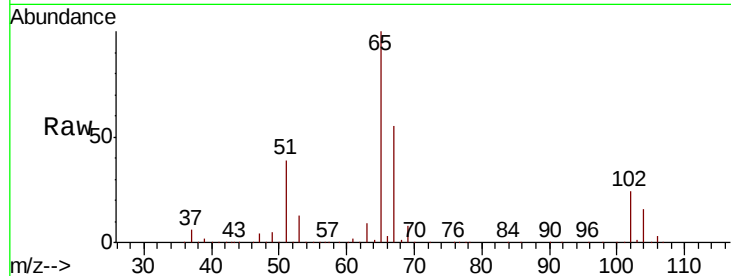
TWP-B-6

Tot Ion: 65 Resp: 133971

Ion Ratio Lower Upper

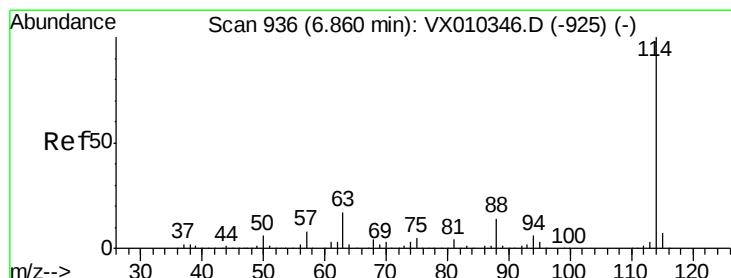
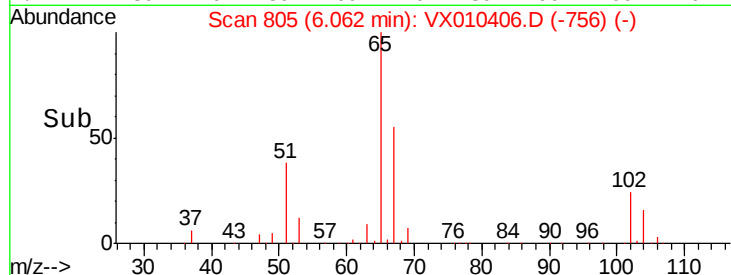
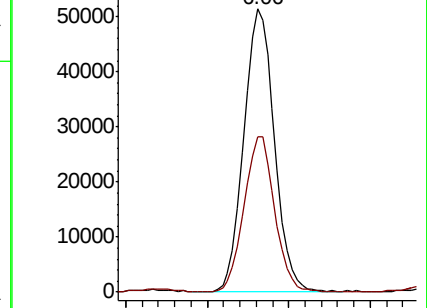
65 100

67 54.3 0.0 110.2



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

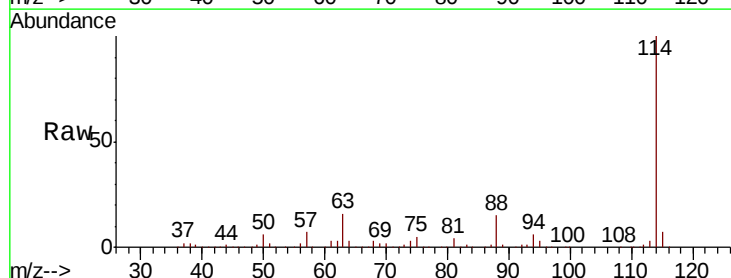
Tgt Ion: 114 Resp: 442024

Ion Ratio Lower Upper

114 100

63 16.4 0.0 33.8

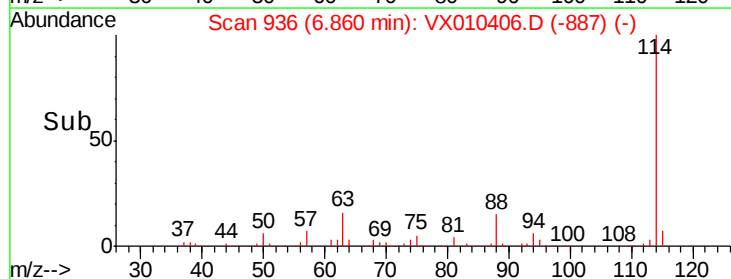
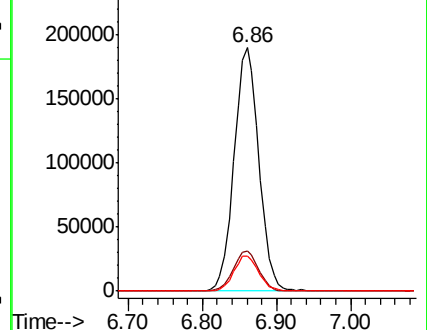
88 14.6 0.0 27.6

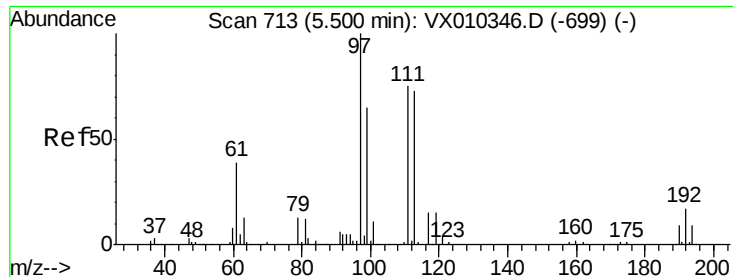


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

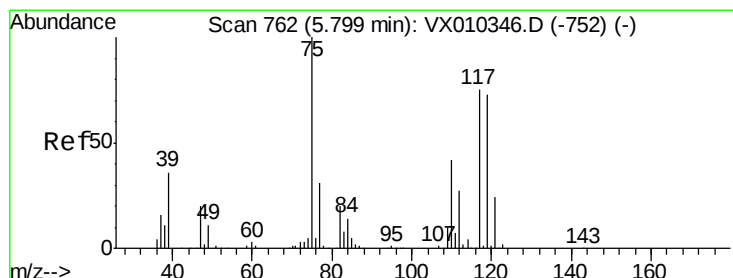
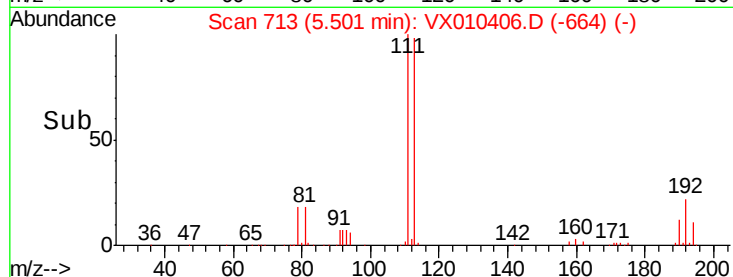
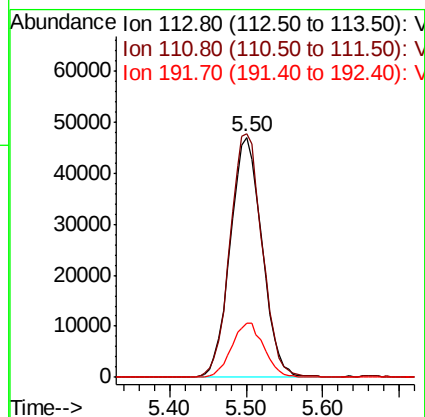
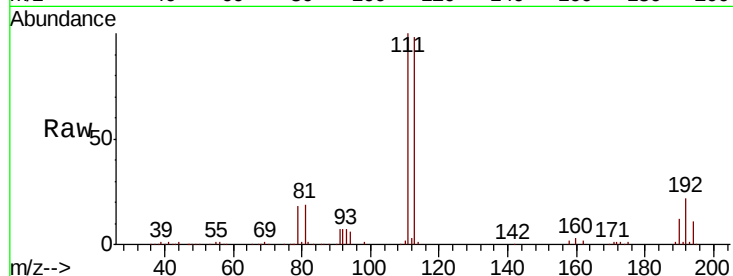




#35  
 Dibromofluoromethane  
 Concen: 50.011 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

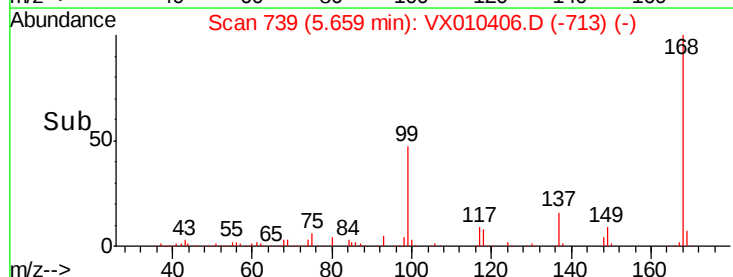
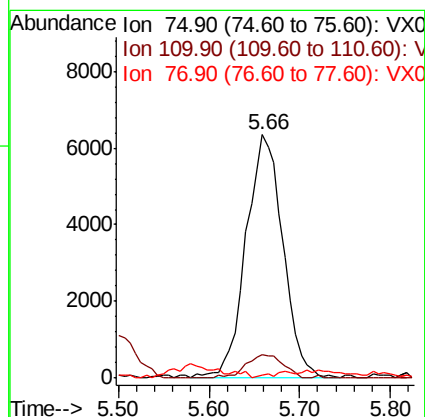
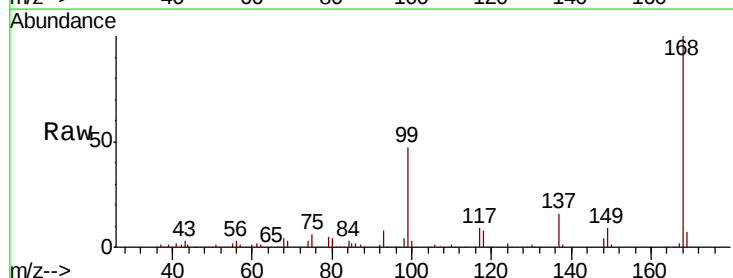
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-B-6

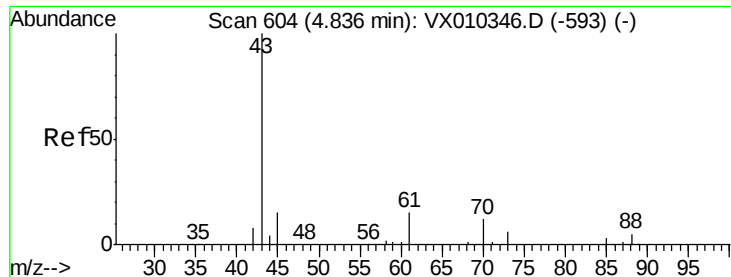
Tot Ion:113 Resp: 135254  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 81.2 121.8  
 192 23.1 18.6 27.8



#36  
 1,1-Dichloropropene  
 Concen: 5.105 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Tgt Ion: 75 Resp: 17930  
 Ion Ratio Lower Upper  
 75 100  
 110 9.7 20.8 62.2#  
 77 0.0 25.4 38.0#





#37

Ethyl Acetate

Concen: 5.164 ug/l

RT: 4.67 min Scan# 577

Delta R.T. -0.16 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

TWP-B-6

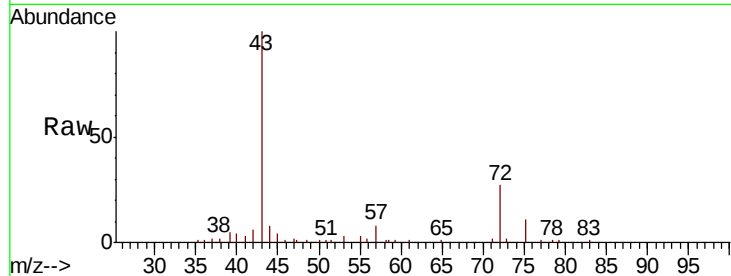
Tot Ion: 43 Resp: 18660

Ion Ratio Lower Upper

43 100

61 0.4 12.4 18.6#

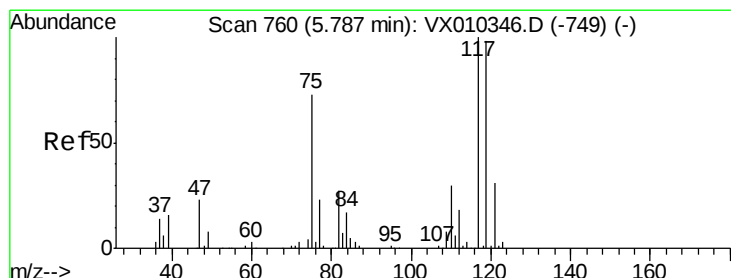
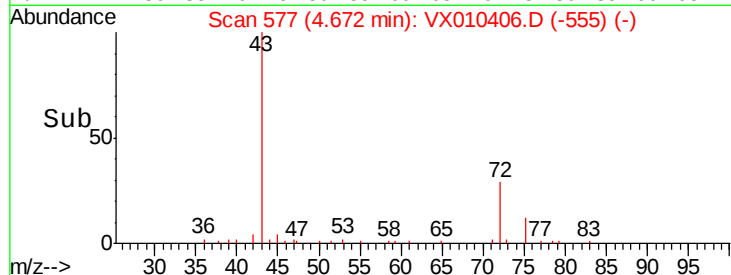
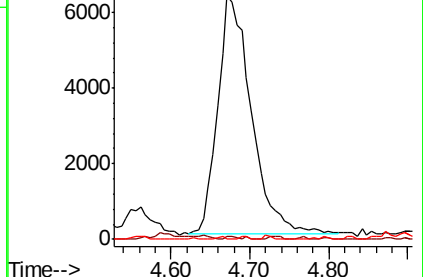
70 0.2 9.8 14.8#



Abundance Ion 43.00 (42.70 to 43.70): VX010346.D (-593) (-)

Ion 60.90 (60.60 to 61.60): VX010346.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX010346.D (-593) (-)



#38

Carbon Tetrachloride

Concen: 6.647 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

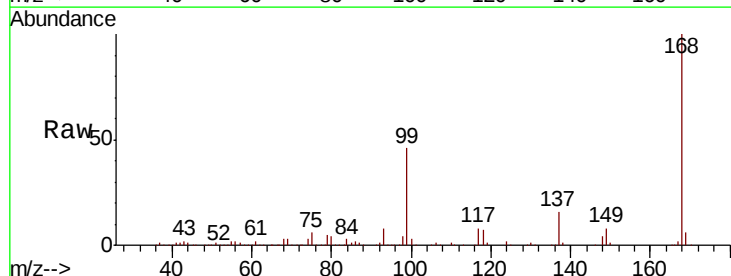
Tgt Ion: 117 Resp: 25281

Ion Ratio Lower Upper

117 100

119 6.2 78.2 117.4#

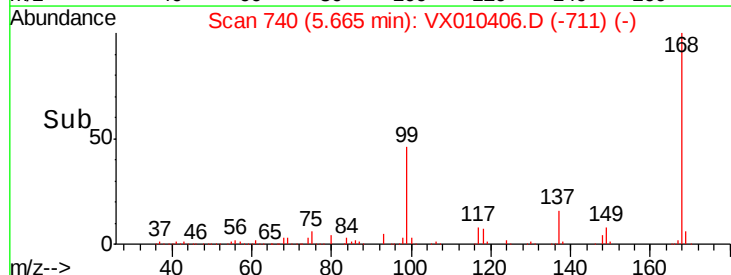
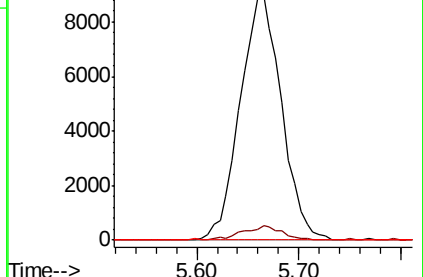
121 0.0 24.7 37.1#

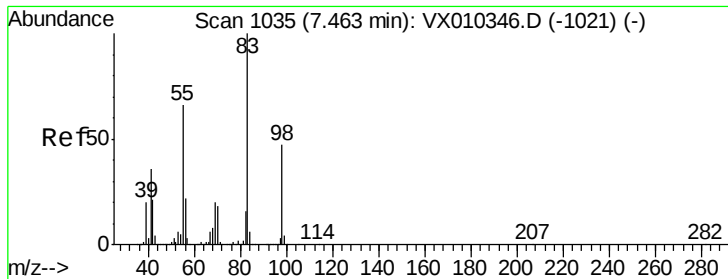


Abundance Ion 116.80 (116.50 to 117.50): VX010346.D (-749) (-)

Ion 118.80 (118.50 to 119.50): VX010346.D (-749) (-)

Ion 120.80 (120.50 to 121.50): VX010346.D (-749) (-)

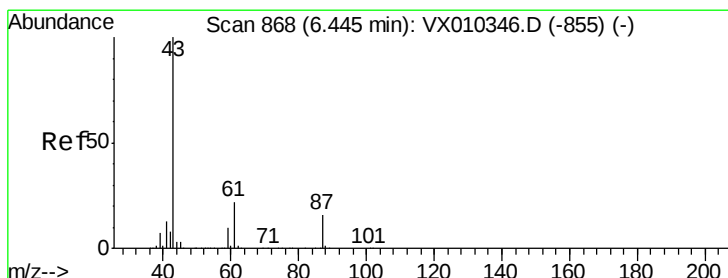
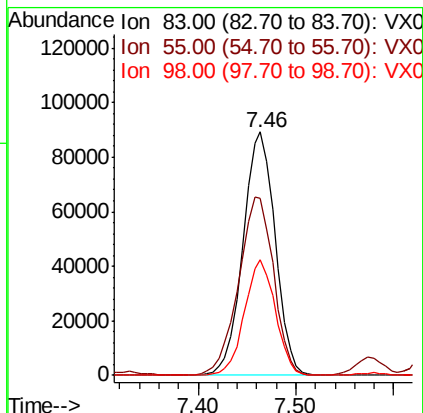
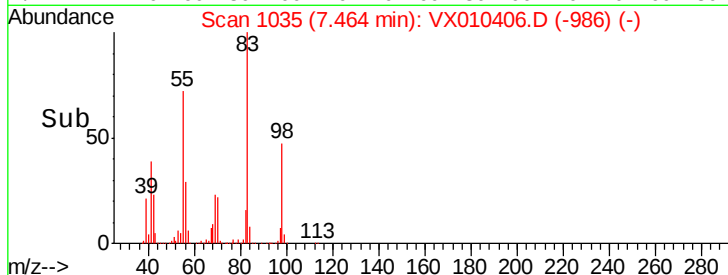
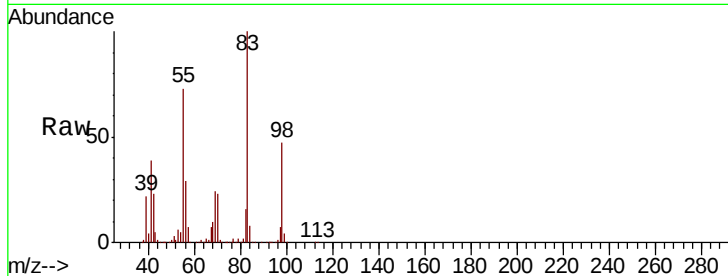




#39  
Methvlcvclohexane  
Concen: 44.067 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

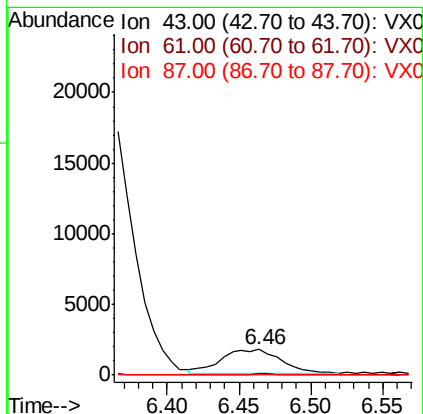
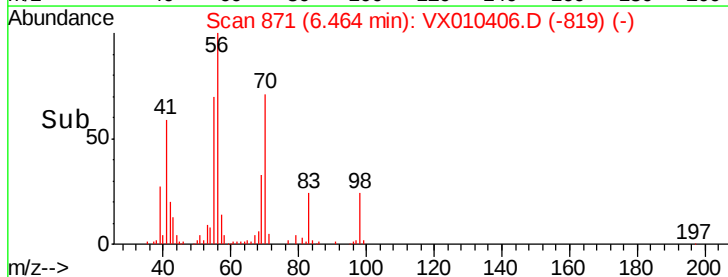
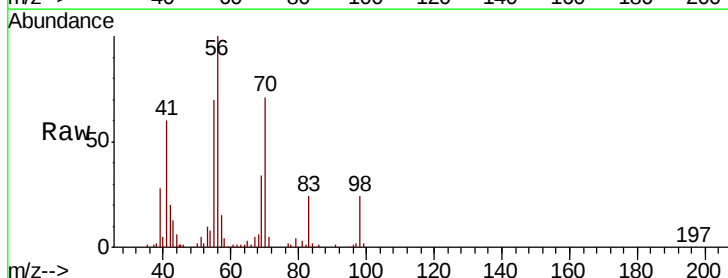
Instrument :  
MSVOA\_X  
ClientSampleId :  
TWP-B-6

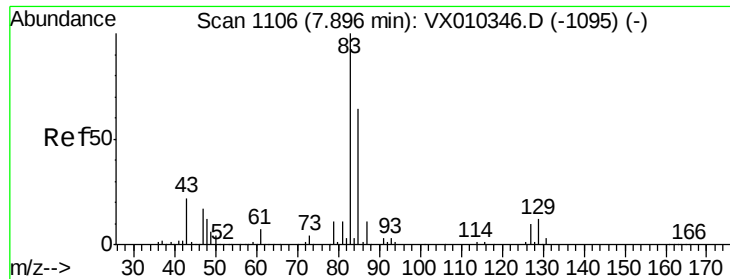
Tot Ion: 83 Resp: 203464  
Ion Ratio Lower Upper  
83 100  
55 72.4 53.0 79.6  
98 47.5 37.8 56.8



#43  
Isopropyl Acetate  
Concen: 0.803 ug/l  
RT: 6.46 min Scan# 871  
Delta R.T. 0.02 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion: 43 Resp: 4803  
Ion Ratio Lower Upper  
43 100  
61 1.6 17.8 26.6#  
87 0.0 13.0 19.4#





#47

Bromodichloromethane

Concen: 1.287 ug/l

RT: 7.85 min Scan# 1098

Delta R.T. -0.05 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampled :

TWP-B-6

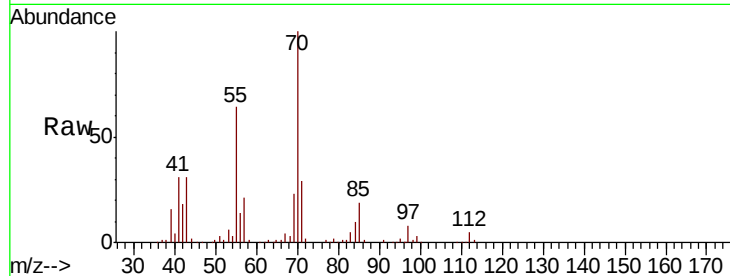
Tot Ion: 83 Resp: 4675

Ion Ratio Lower Upper

83 100

85 358.8 51.5 77.3#

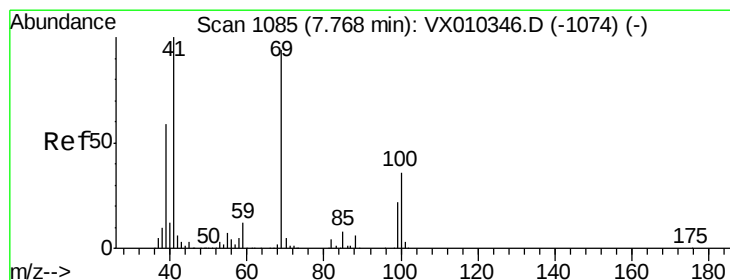
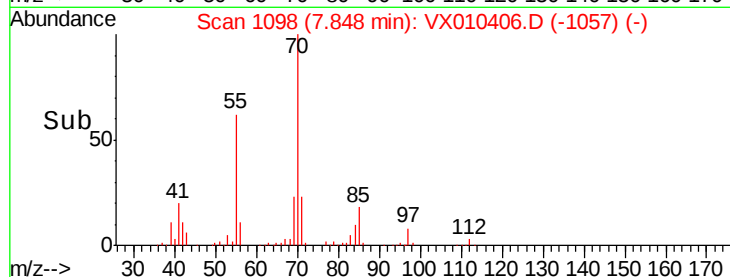
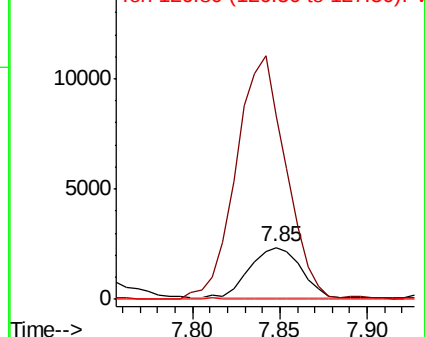
127 0.0 7.8 11.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 5.546 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.03 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

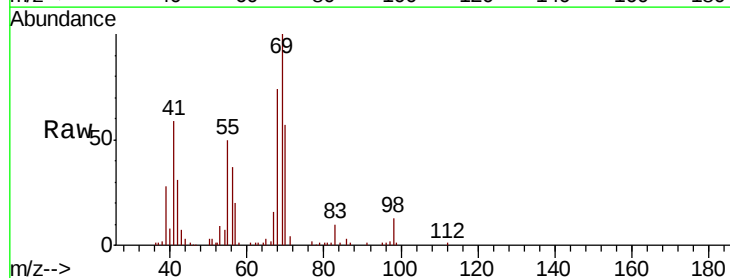
Tgt Ion: 41 Resp: 15413

Ion Ratio Lower Upper

41 100

69 172.1 76.1 114.1#

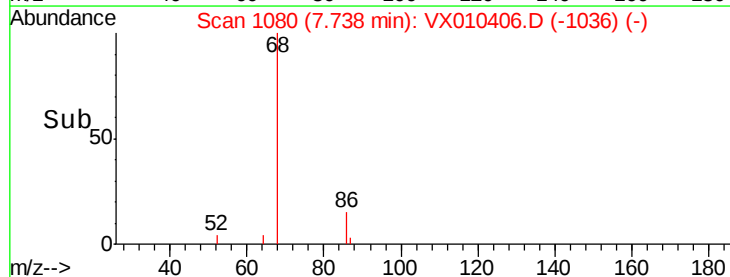
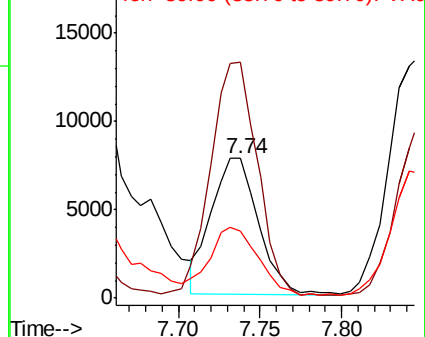
39 51.8 47.6 71.4

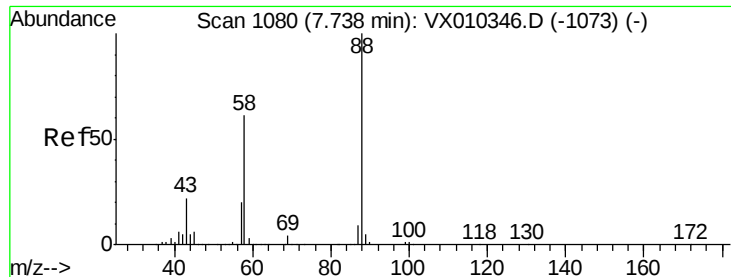


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

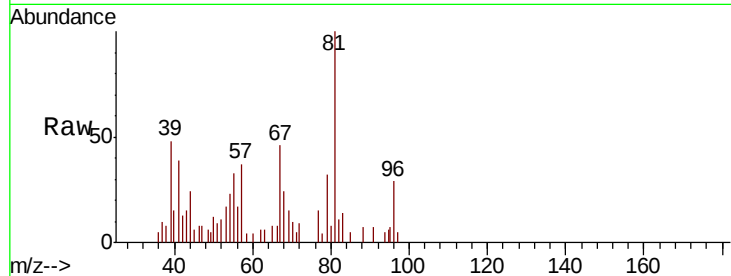




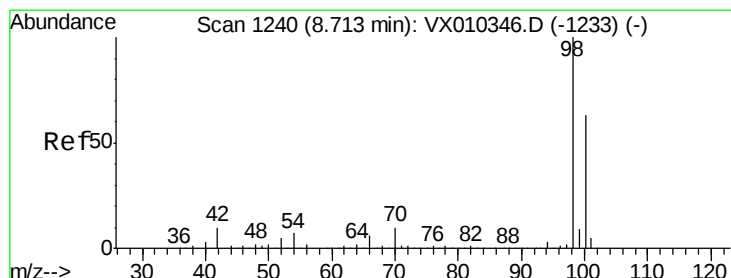
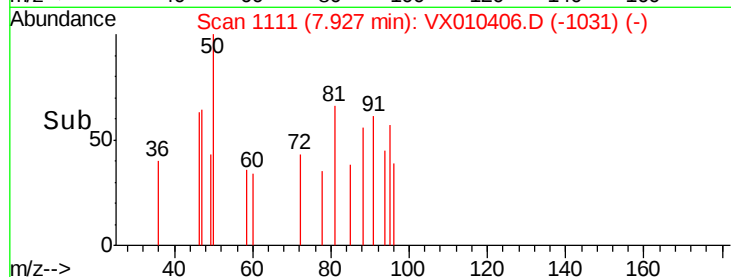
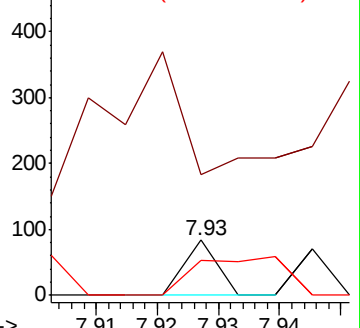
#49  
1,4-Dioxane  
Concen: 0.387 ug/l  
RT: 7.93 min Scan# 1111  
Delta R.T. 0.19 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-B-6

Tot Ion: 88 Resp: 31  
Ion Ratio Lower Upper  
88 100  
43 0.0 20.2 30.2#  
58 0.0 49.5 74.3#

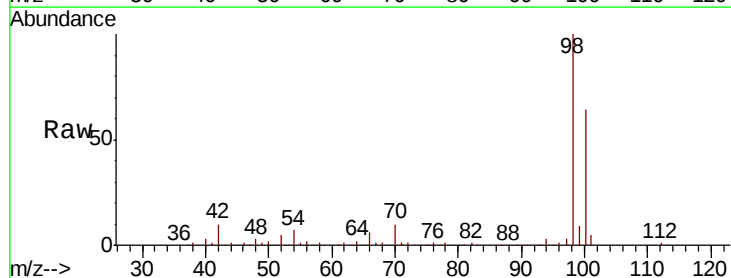


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

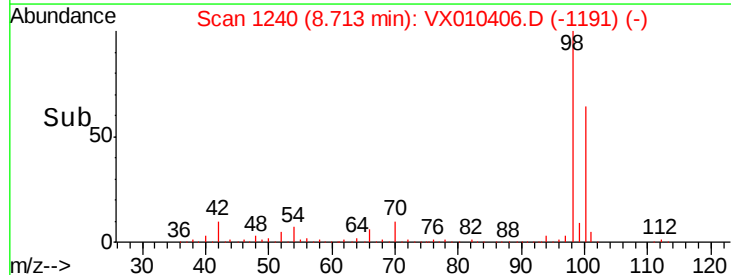
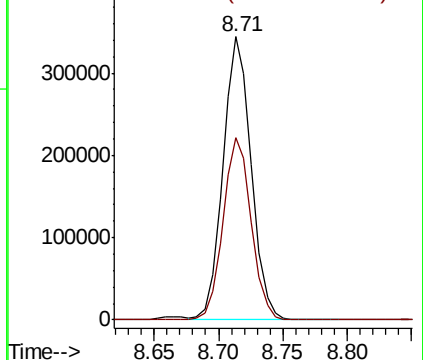


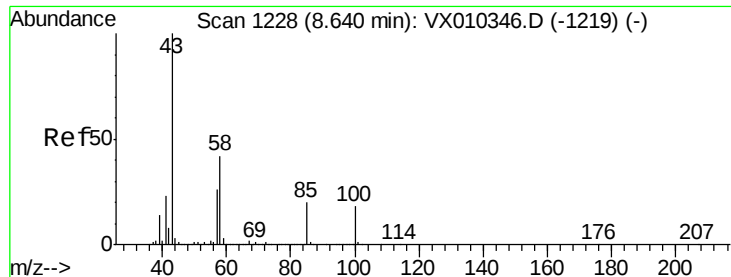
#50  
Toluene-d8  
Concen: 51.025 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion: 98 Resp: 527948  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

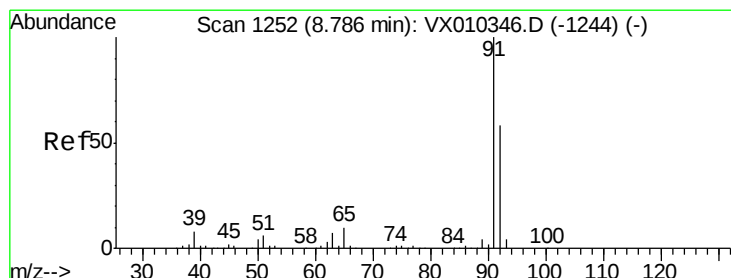
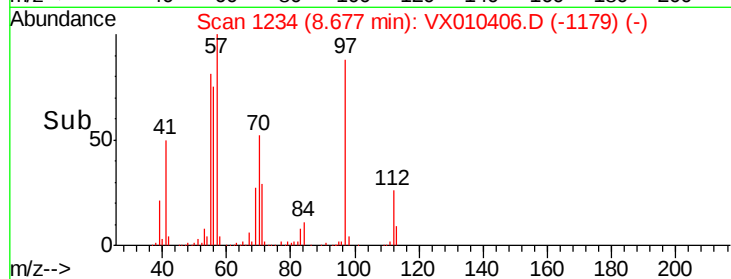
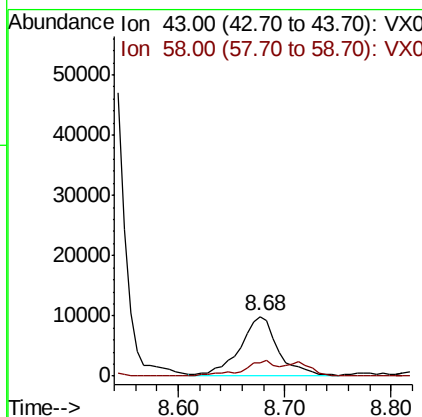
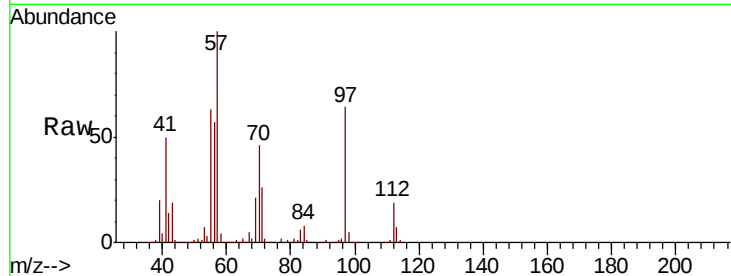




#51  
 4-Methyl-2-Pentanone  
 Concen: 6.256 ug/l  
 RT: 8.68 min Scan# 1234  
 Delta R.T. 0.04 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

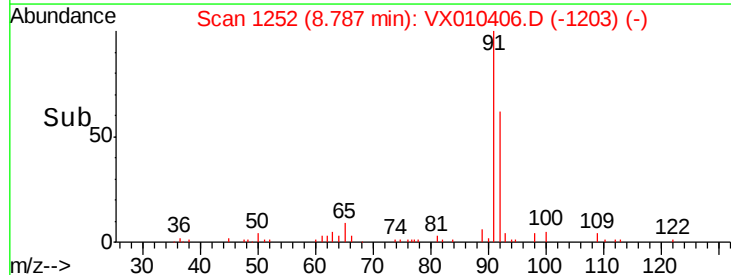
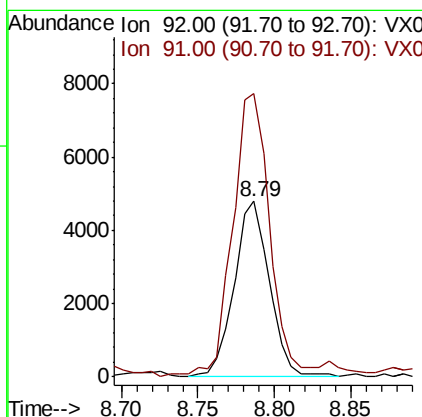
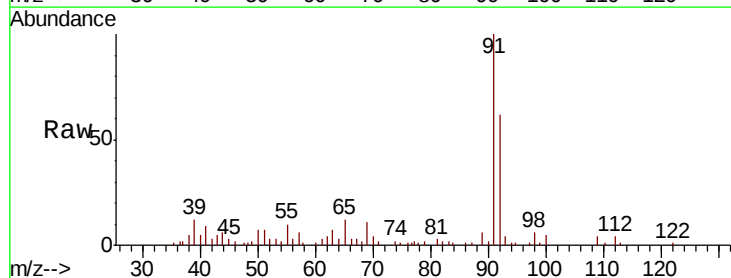
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 TWP-B-6

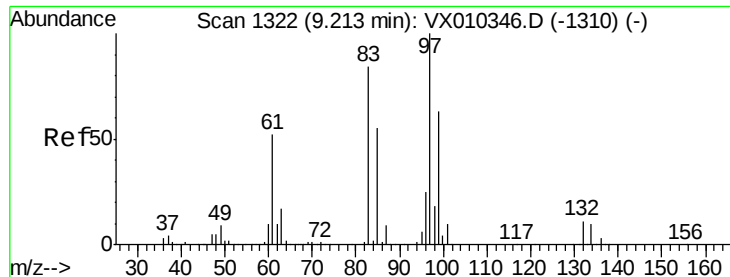
Tot Ion: 43 Resp: 23922  
 Ion Ratio Lower Upper  
 43 100  
 58 22.0 33.5 50.3#



#52  
 Toluene  
 Concen: 1.069 ug/l  
 RT: 8.79 min Scan# 1252  
 Delta R.T. 0.00 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Tgt Ion: 92 Resp: 7705  
 Ion Ratio Lower Upper  
 92 100  
 91 168.6 139.8 209.6





#55

1,1,2-Trichloroethane

Concen: 1.173 ug/l

RT: 9.26 min Scan# 1330

Delta R.T. 0.05 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampled :

TWP-B-6

Tot Ion: 97 Resp: 3487

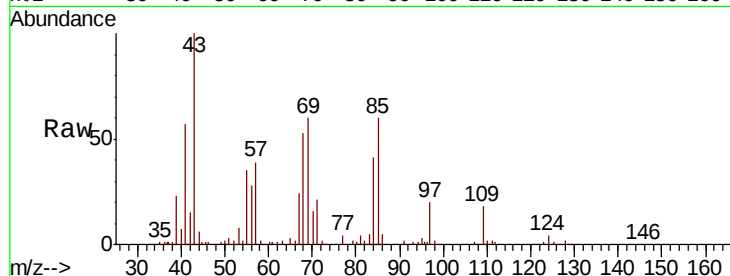
Ion Ratio Lower Upper

97 100

83 21.7 67.4 101.0#

85 308.0 43.8 65.8#

99 0.0 50.3 75.5#

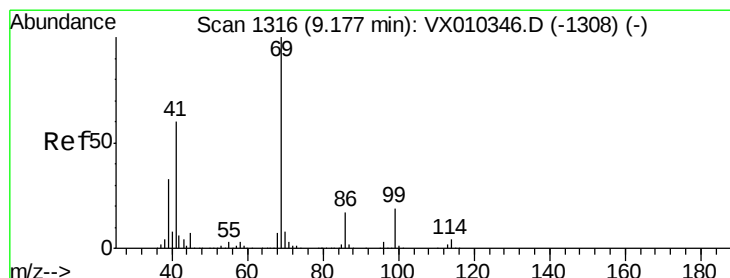
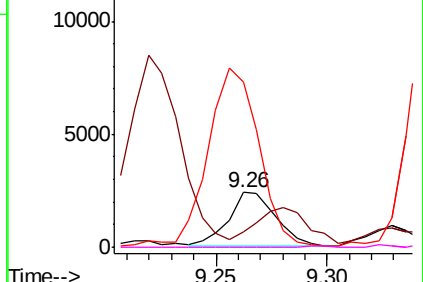
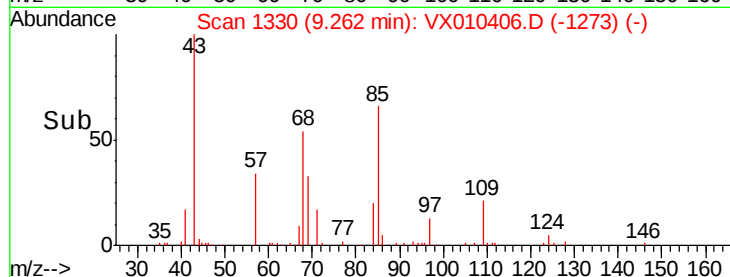


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 3.481 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

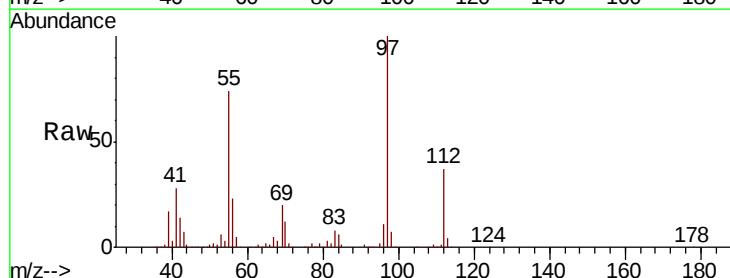
Tgt Ion: 69 Resp: 15673

Ion Ratio Lower Upper

69 100

41 146.8 47.1 70.7#

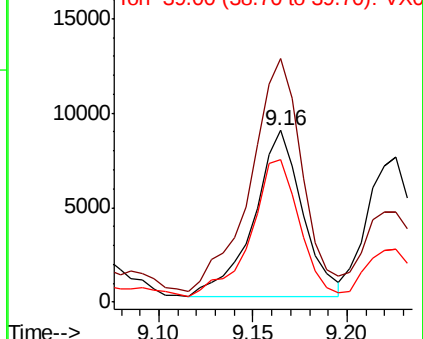
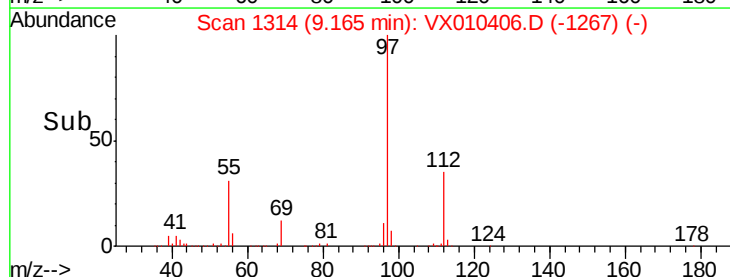
39 82.2 26.6 40.0#

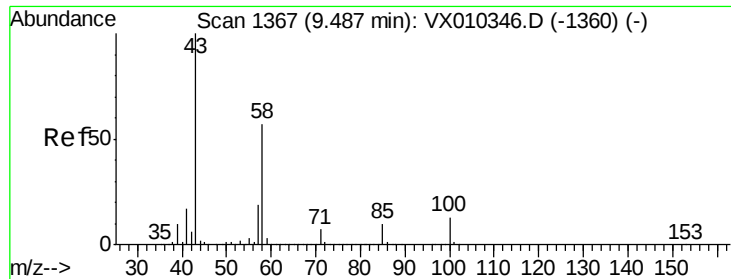


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

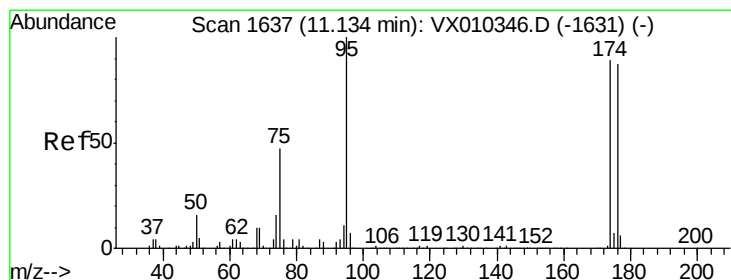
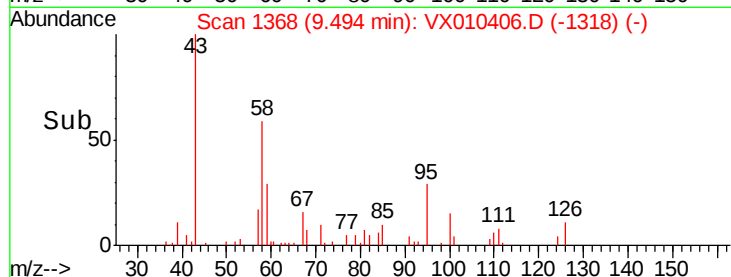
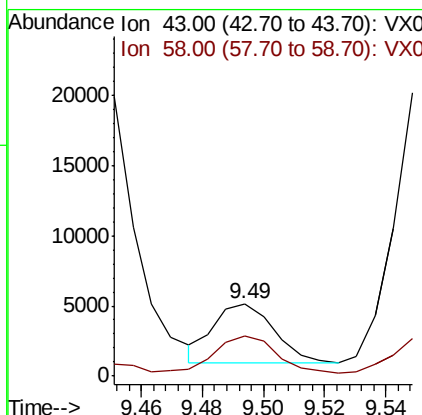
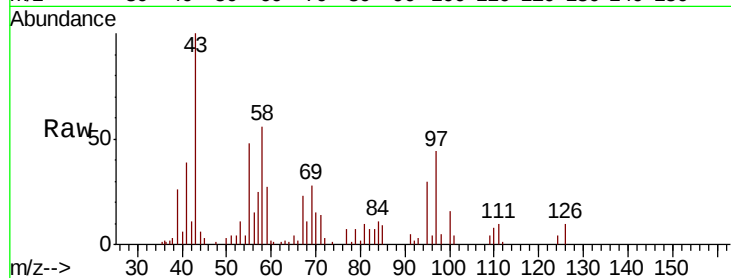




#59  
2-Hexanone  
Concen: 1.896 ug/l  
RT: 9.49 min Scan# 1368  
Delta R.T. 0.01 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

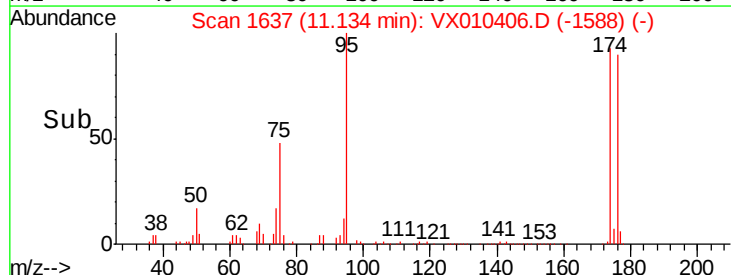
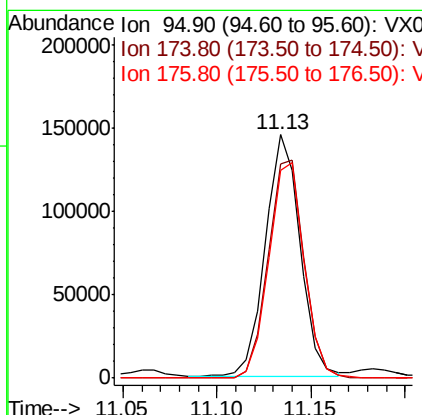
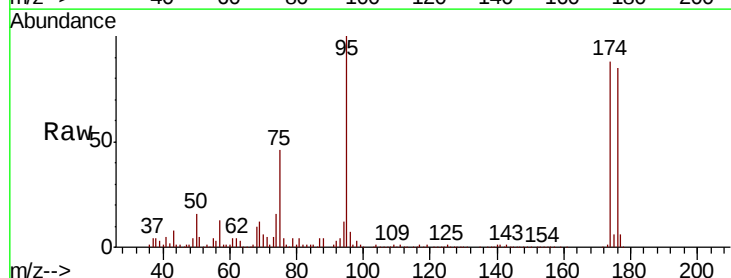
Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-B-6

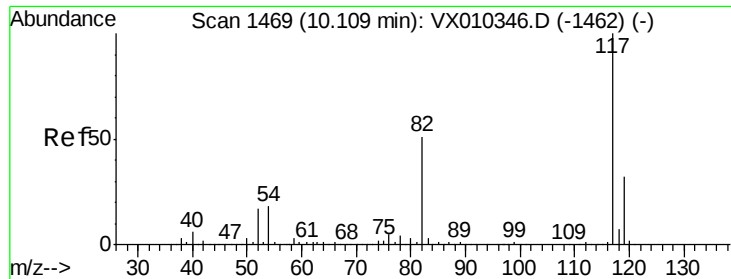
Tot Ion: 43 Resp: 5707  
Ion Ratio Lower Upper  
43 100  
58 75.0 29.0 87.1



#62  
4-Bromofluorobenzene  
Concen: 49.487 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion: 95 Resp: 184857  
Ion Ratio Lower Upper  
95 100  
174 93.7 0.0 187.6  
176 91.1 0.0 184.0

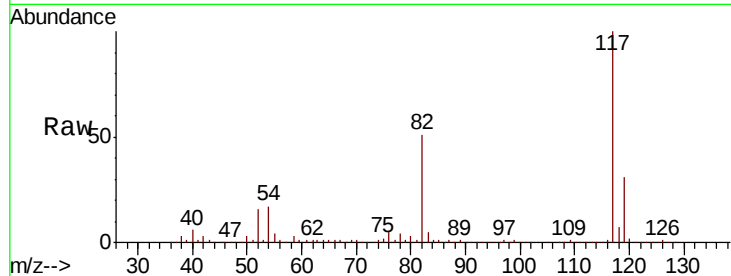




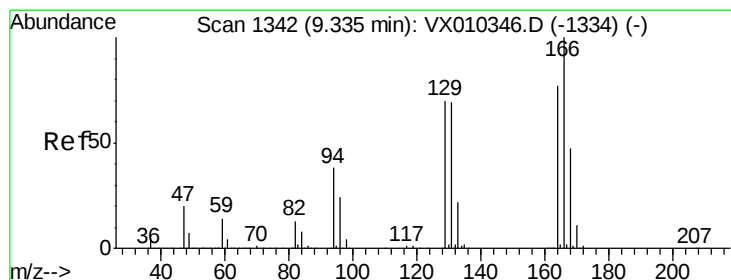
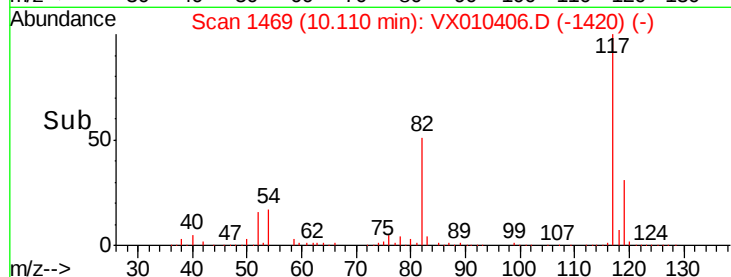
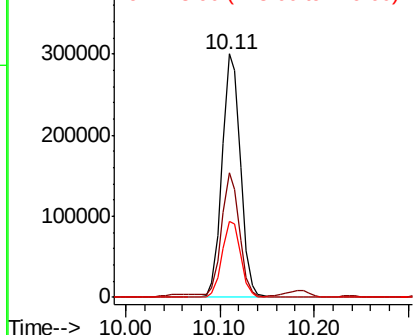
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-B-6

Tot Ion:117 Resp: 405499  
Ion Ratio Lower Upper  
117 100  
82 50.8 41.2 61.8  
119 31.4 25.5 38.3

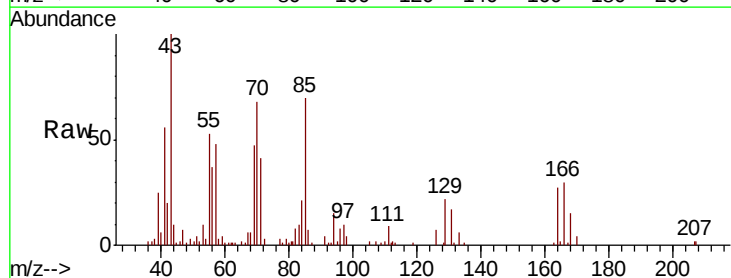


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

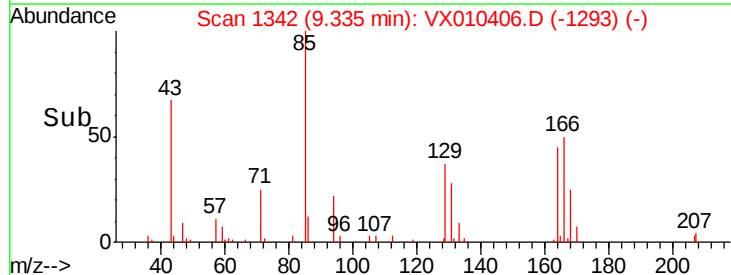
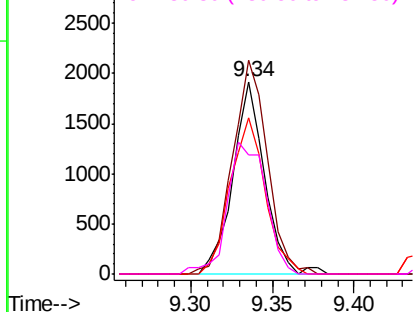


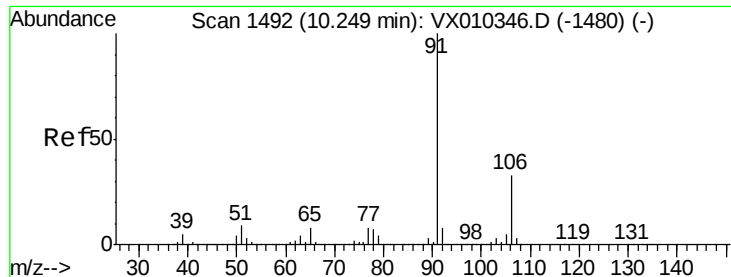
#64  
Tetrachloroethene  
Concen: 0.789 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion:164 Resp: 2588  
Ion Ratio Lower Upper  
164 100  
166 111.0 103.6 155.4  
129 80.9 73.0 109.4  
131 61.9 71.0 106.4#



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

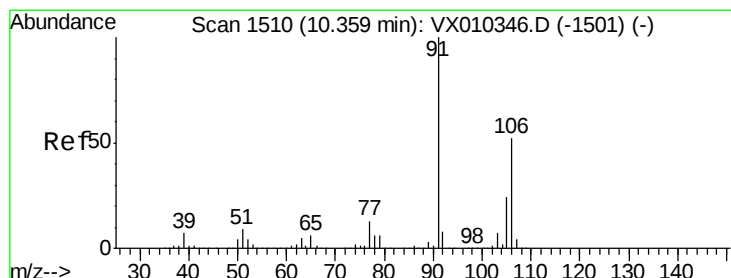
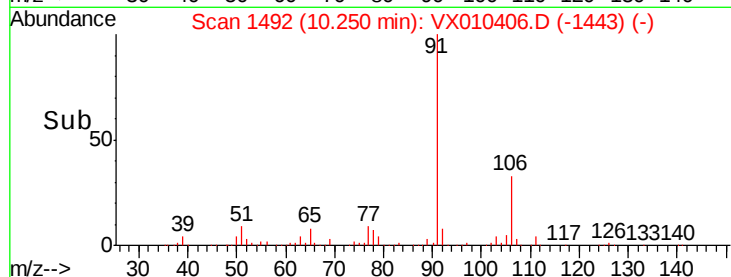
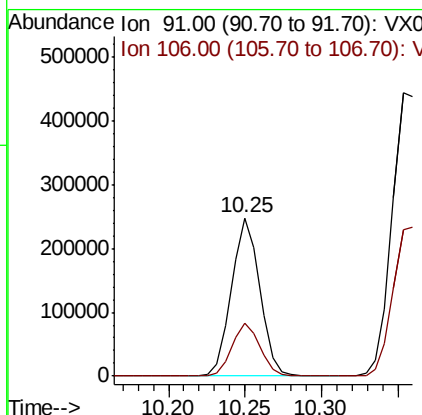
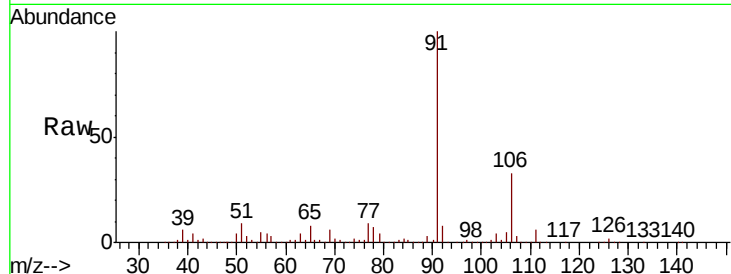




#67  
Ethyl Benzene  
Concen: 22.806 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

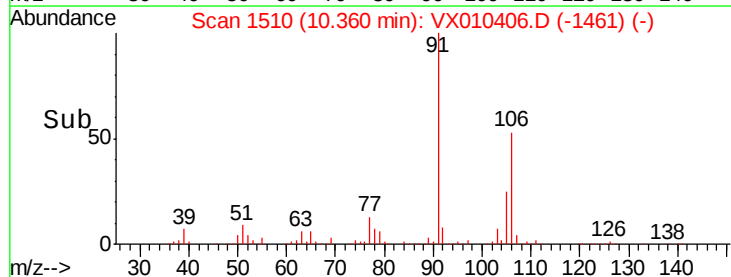
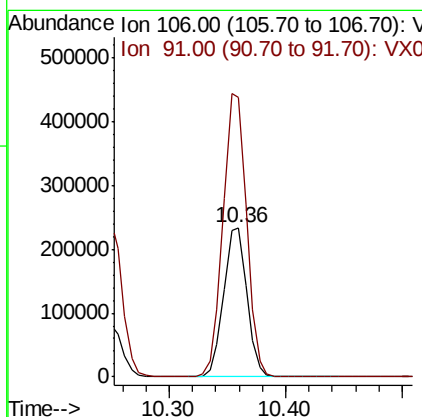
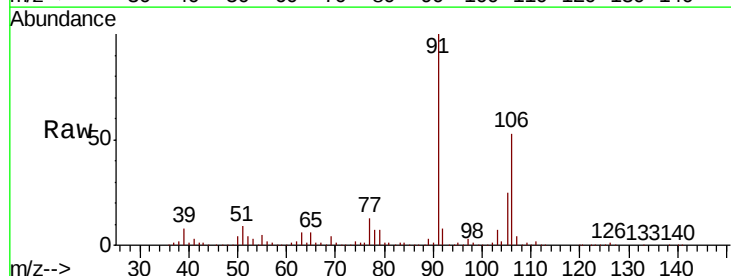
Instrument :  
MSVOA\_X  
ClientSampleId :  
TWP-B-6

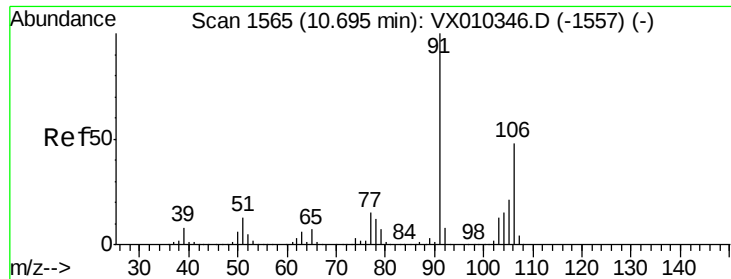
Tot Ion: 91 Resp: 316956  
Ion Ratio Lower Upper  
91 100  
106 33.1 26.2 39.2



#68  
m/p-Xylenes  
Concen: 60.113 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion: 106 Resp: 323717  
Ion Ratio Lower Upper  
106 100  
91 192.1 155.3 232.9

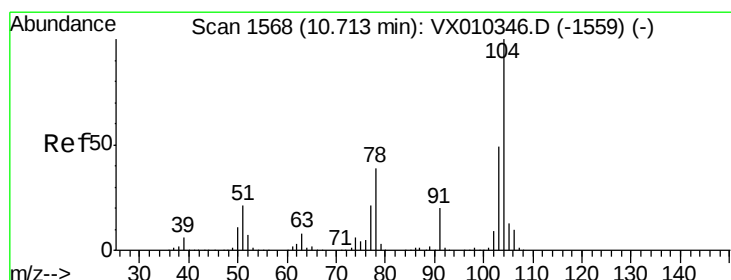
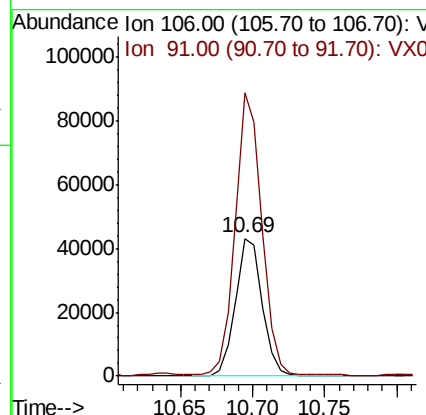
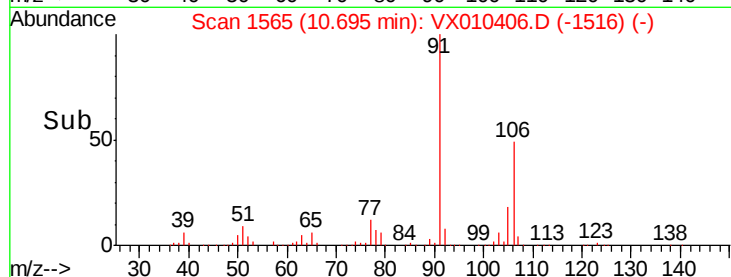
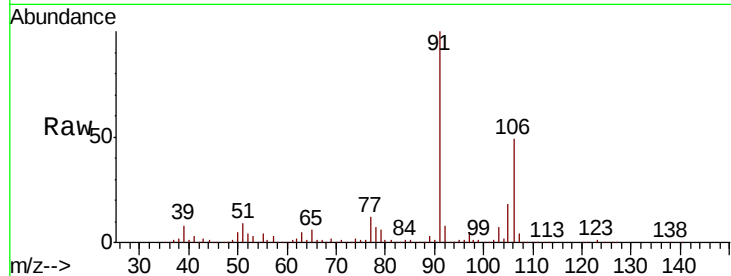




#69  
o-Xylene  
Concen: 10.654 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

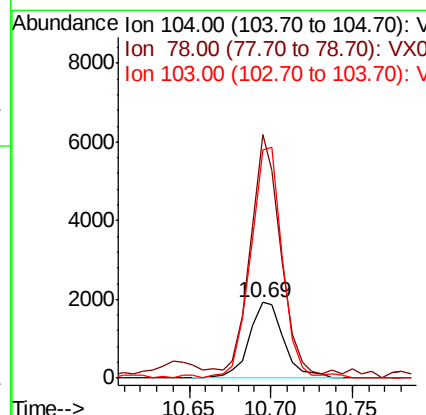
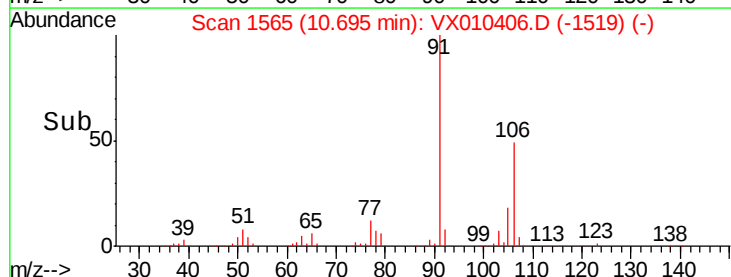
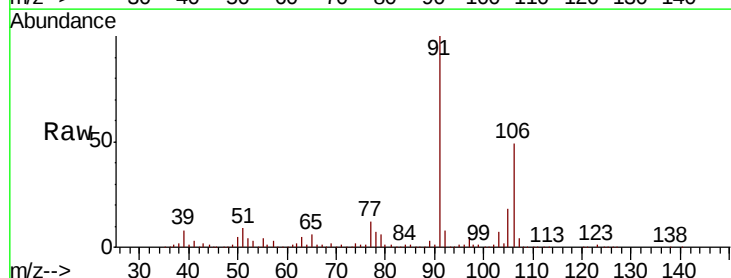
Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-B-6

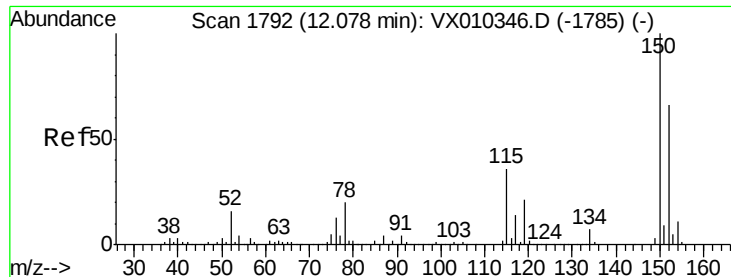
Tot Ion:106 Resp: 56422  
Ion Ratio Lower Upper  
106 100  
91 200.7 102.7 308.1



#70  
Styrene  
Concen: 0.320 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.02 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion:104 Resp: 2839  
Ion Ratio Lower Upper  
104 100  
78 272.4 36.2 54.2#  
103 282.4 44.2 66.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

TWP-B-6

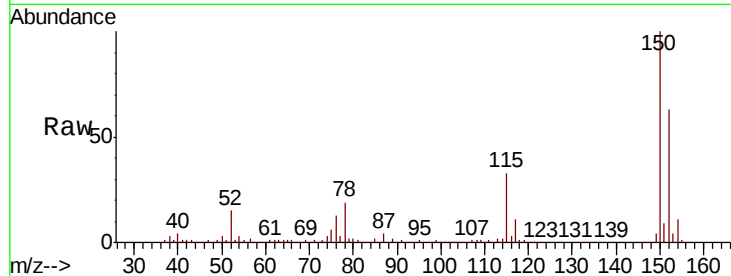
Tot Ion:152 Resp: 199971

Ion Ratio Lower Upper

152 100

115 55.6 38.6 115.7

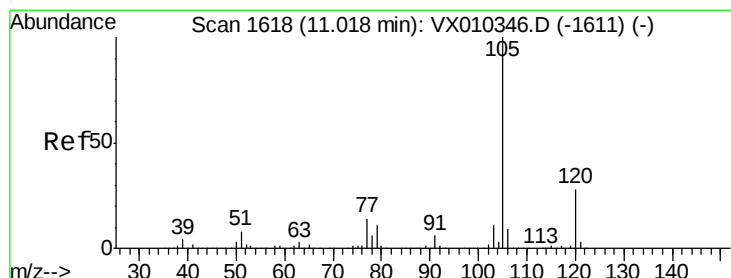
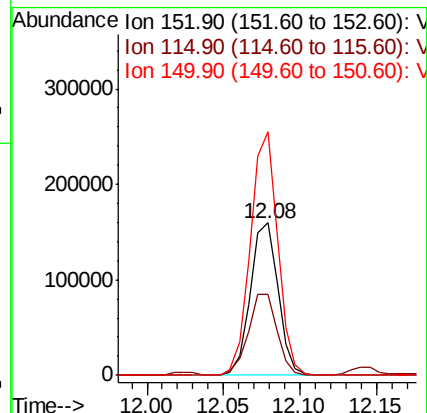
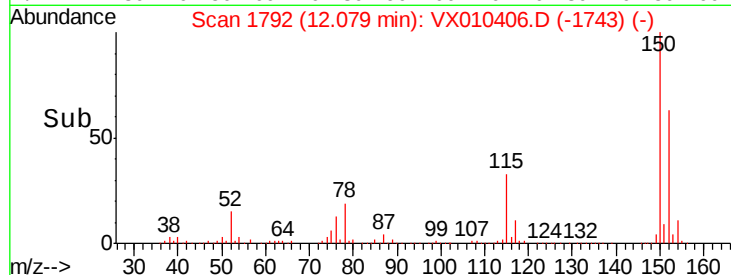
150 157.6 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 10.305 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010406.D

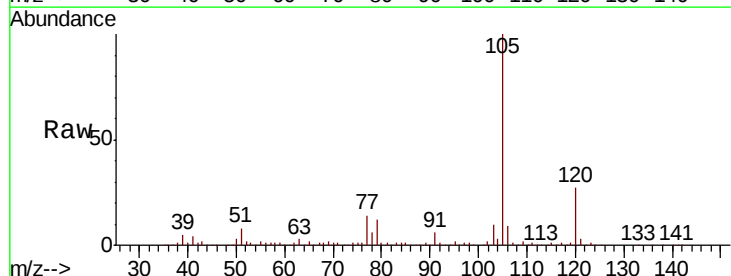
Acq: 24 Jun 2019 12:31

Tgt Ion:105 Resp: 139694

Ion Ratio Lower Upper

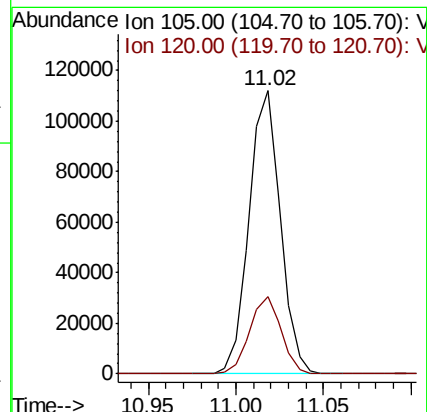
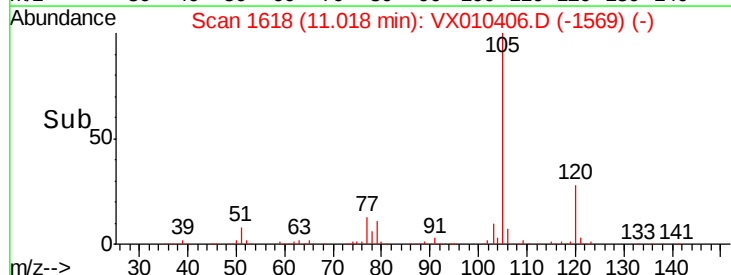
105 100

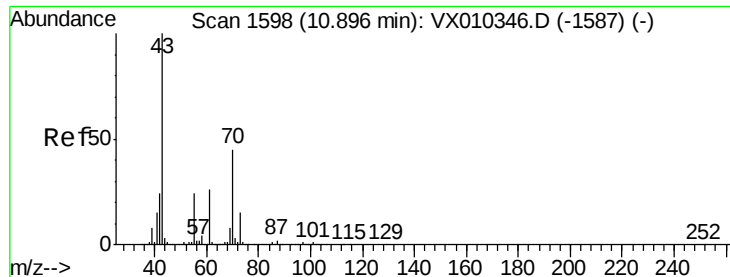
120 27.5 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.915 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.02 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

TWP-B-6

Tot Ion: 43 Resp: 9812

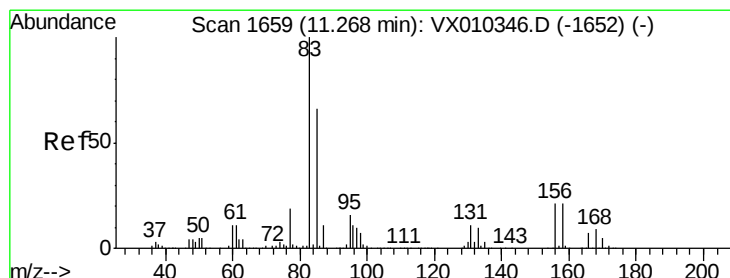
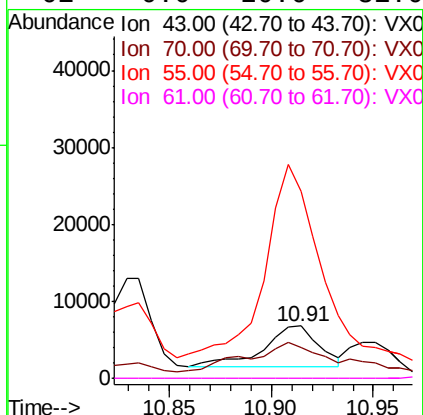
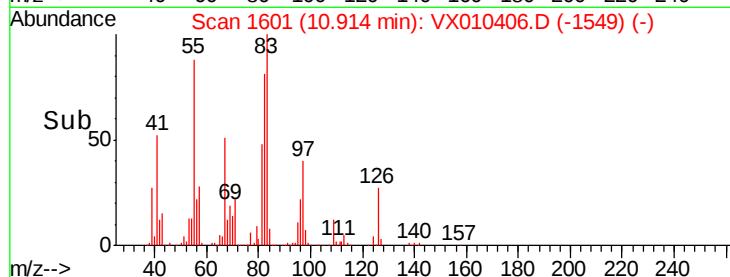
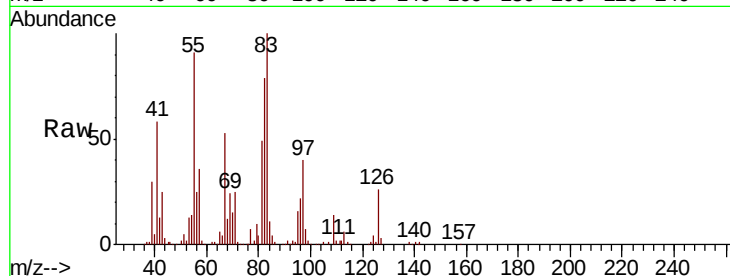
Ion Ratio Lower Upper

43 100

70 110.3 36.6 54.8#

55 531.5 18.7 28.1#

61 0.0 20.6 31.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.908 ug/l

RT: 11.27 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

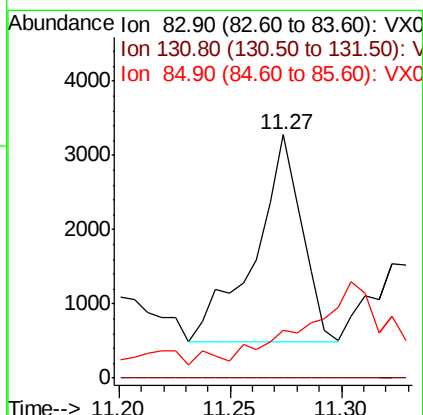
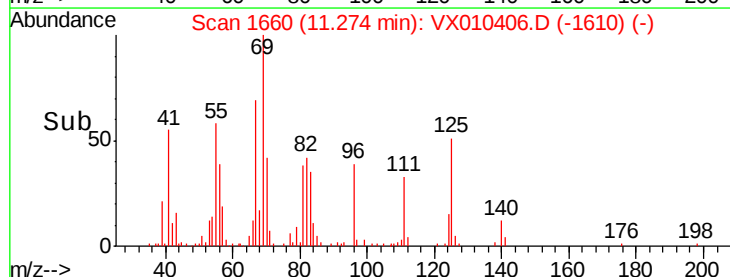
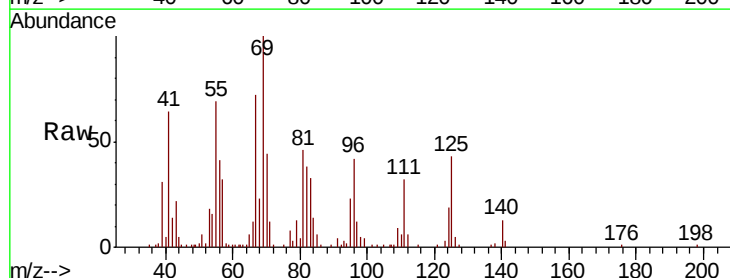
Tgt Ion: 83 Resp: 4074

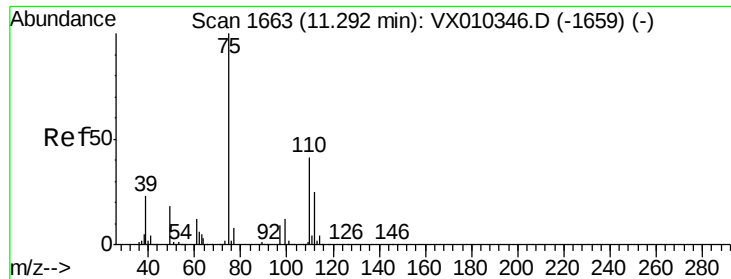
Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 1.111 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.07 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

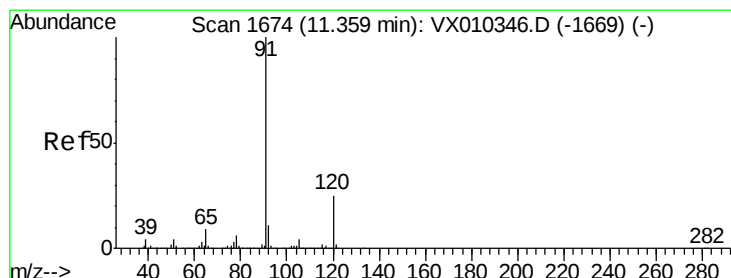
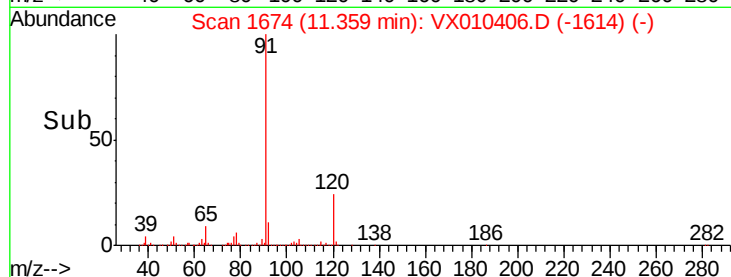
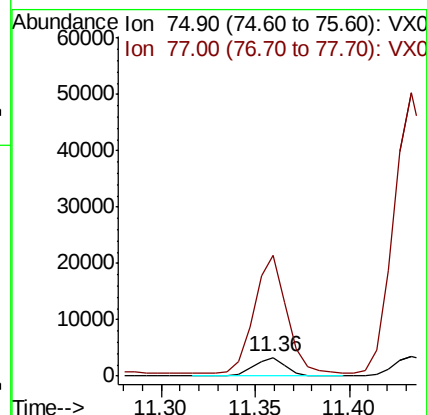
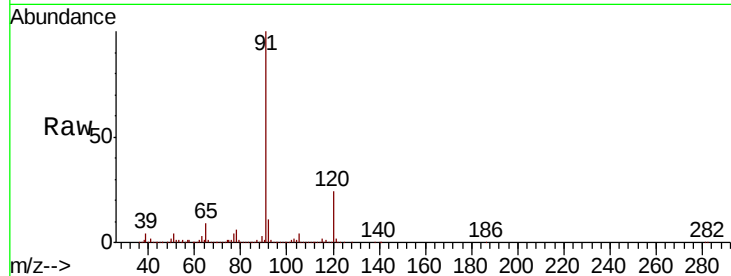
TWP-B-6

Tot Ion: 75 Resp: 4050

Ion Ratio Lower Upper

75 100

77 620.6 22.6 67.8#



#78

n-propylbenzene

Concen: 46.504 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010406.D

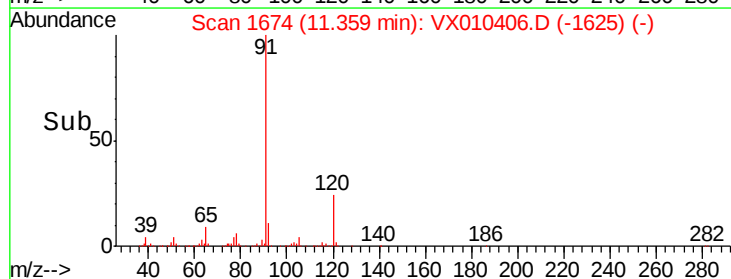
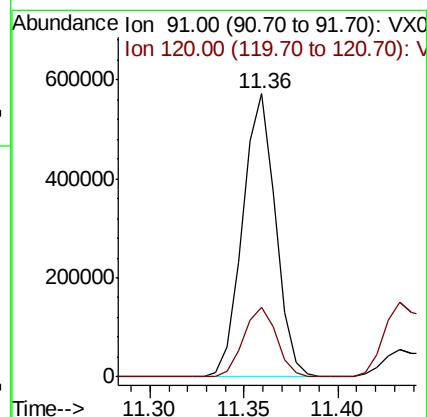
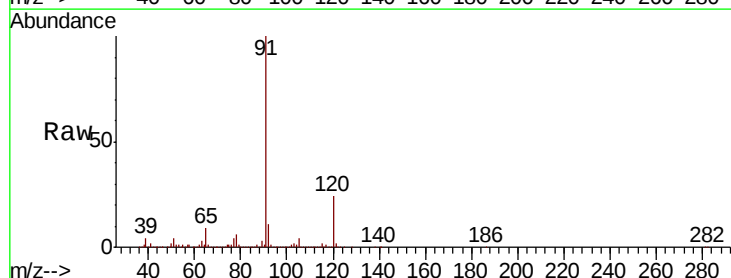
Acq: 24 Jun 2019 12:31

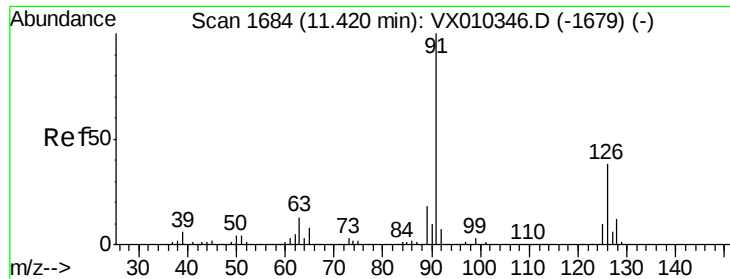
Tgt Ion: 91 Resp: 692819

Ion Ratio Lower Upper

91 100

120 24.7 12.4 37.4

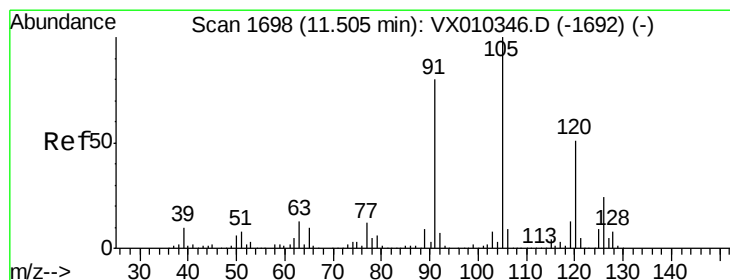
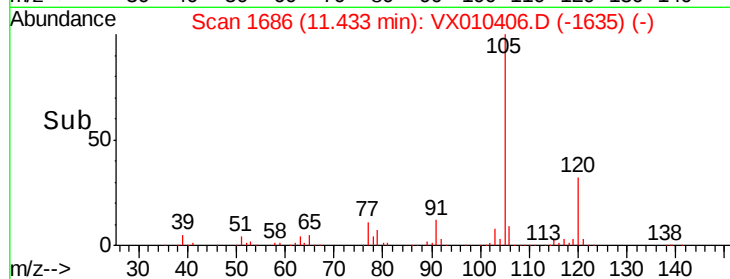
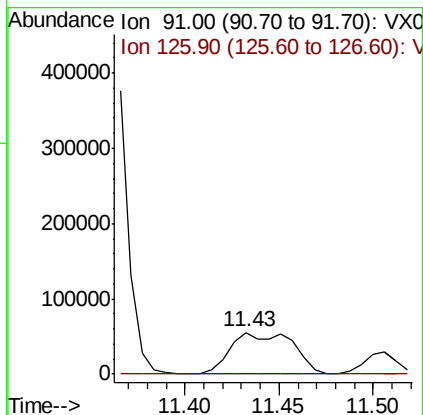
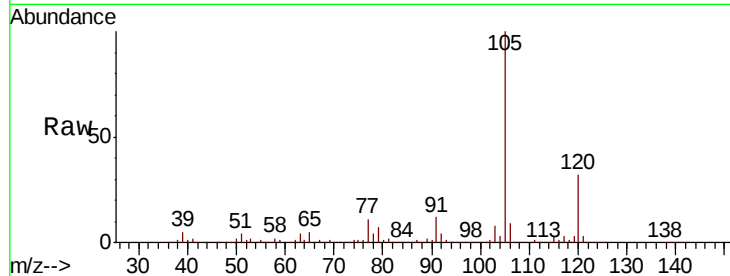




#79  
 2-Chlorotoluene  
 Concen: 14.179 ug/l  
 RT: 11.43 min Scan# 1686  
 Delta R.T. 0.01 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

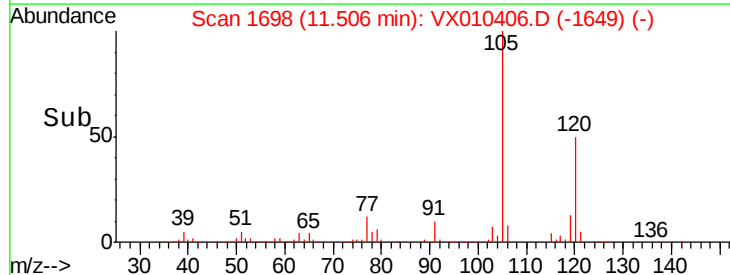
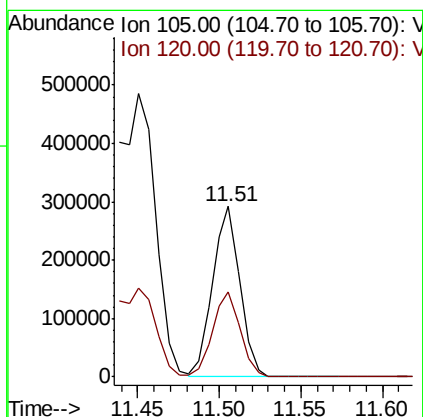
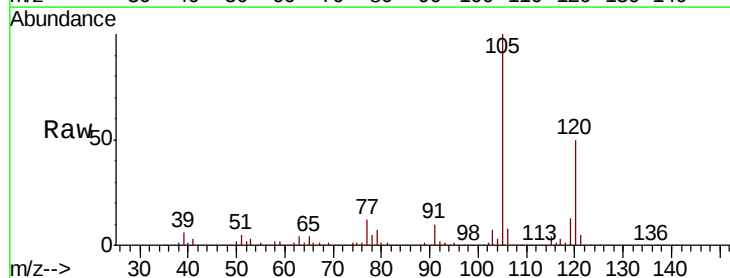
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-B-6

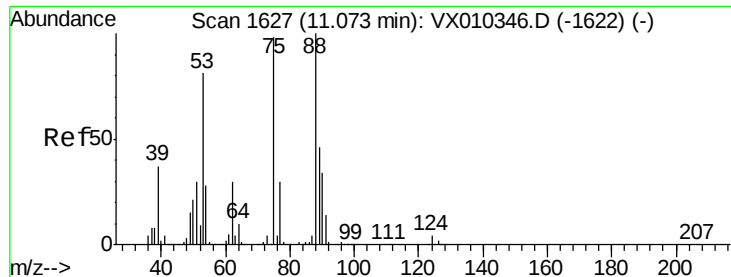
Tot Ion: 91 Resp: 125790  
 Ion Ratio Lower Upper  
 91 100  
 126 0.3 18.7 56.1#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 30.600 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Tgt Ion:105 Resp: 341953  
 Ion Ratio Lower Upper  
 105 100  
 120 50.3 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 55.593 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampleId :

TWP-B-6

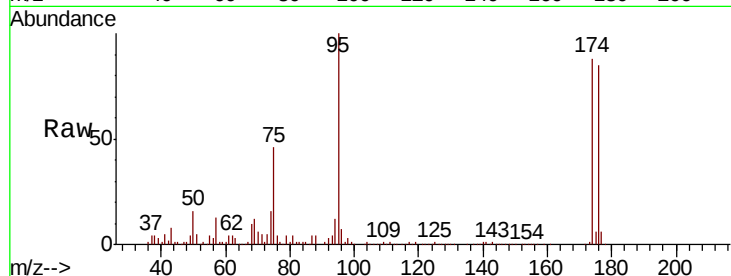
Tot Ion: 75 Resp: 86837

Ion Ratio Lower Upper

75 100

53 1.2 66.1 99.1#

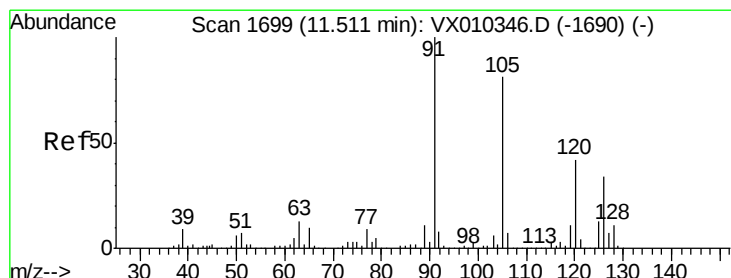
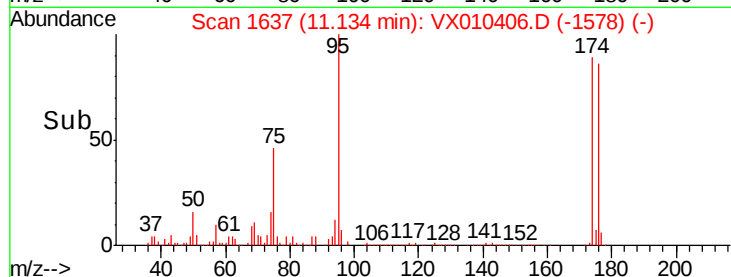
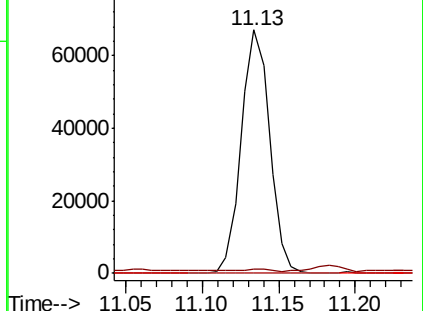
89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 3.514 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.01 min

Lab File: VX010406.D

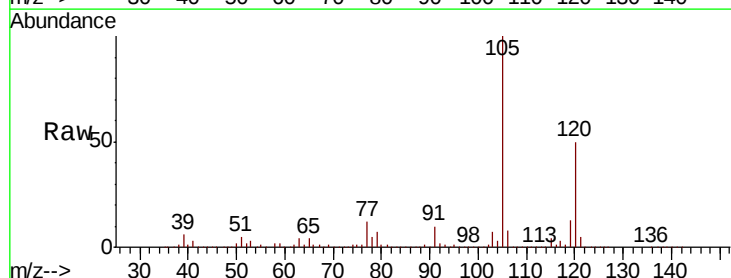
Acq: 24 Jun 2019 12:31

Tgt Ion: 91 Resp: 35475

Ion Ratio Lower Upper

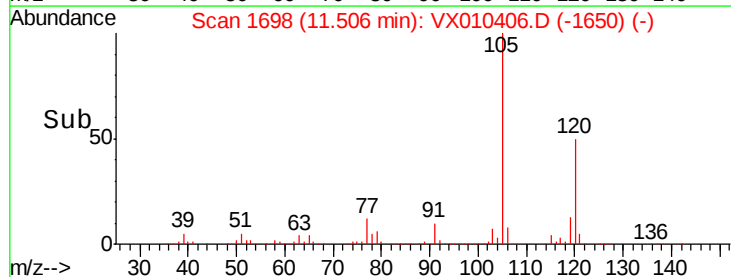
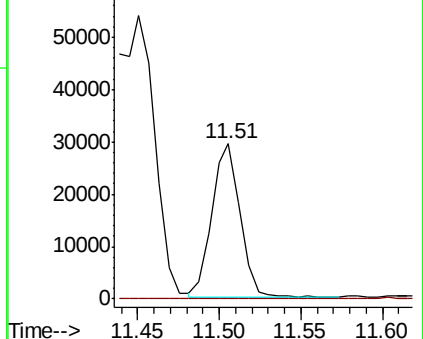
91 100

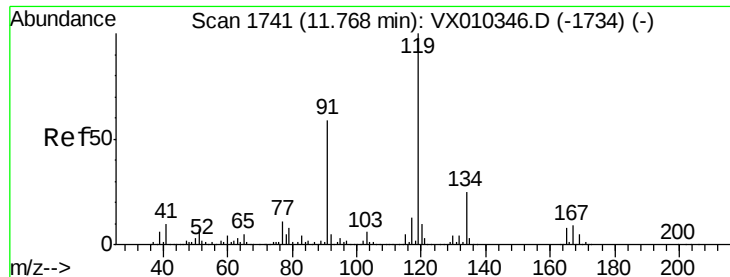
126 0.9 16.2 48.6#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 14.696 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.04 min

Lab File: VX010406.D

Acq: 24 Jun 2019 12:31

Instrument :

MSVOA\_X

ClientSampled :

TWP-B-6

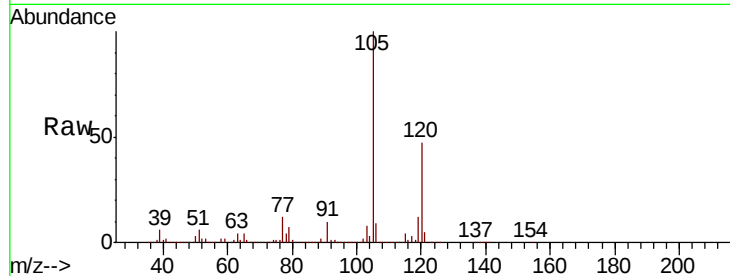
Tot Ion:119 Resp: 164836

Ion Ratio Lower Upper

119 100

91 82.0 27.6 82.7

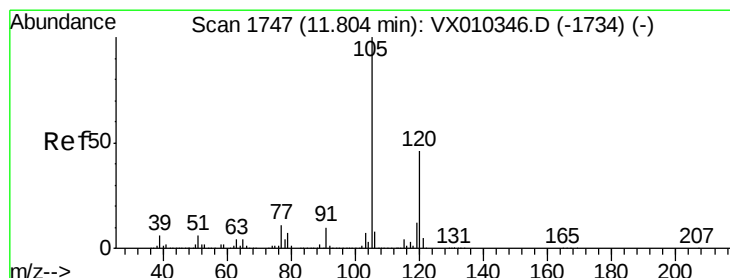
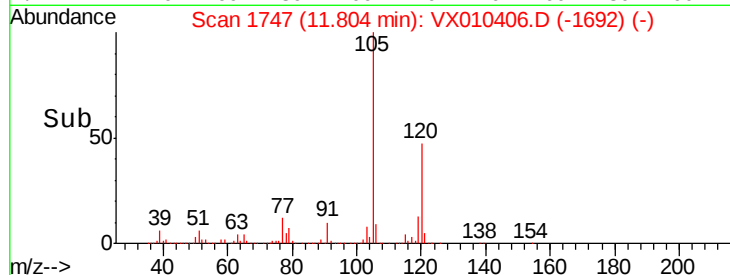
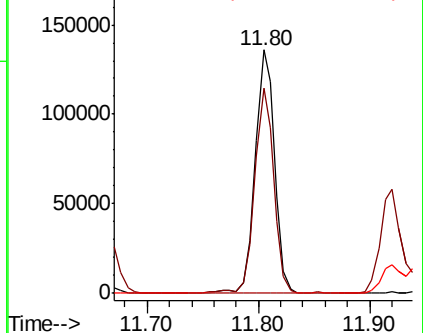
134 0.0 11.8 35.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 117.014 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010406.D

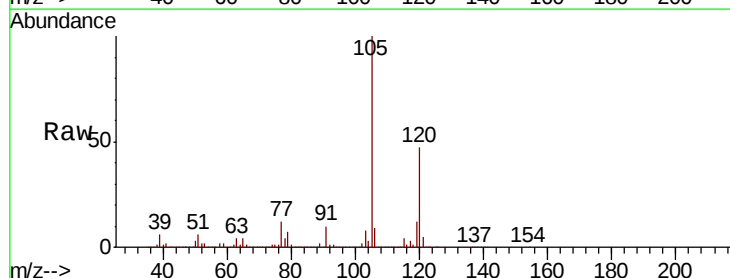
Acq: 24 Jun 2019 12:31

Tgt Ion:105 Resp: 1313756

Ion Ratio Lower Upper

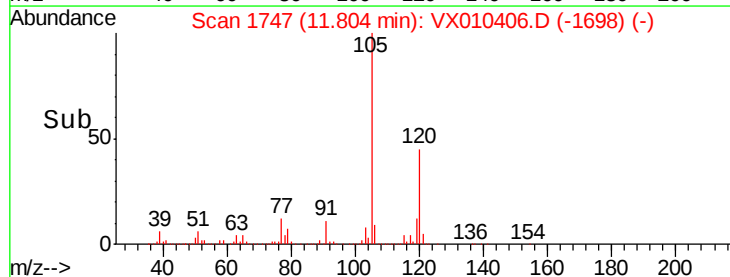
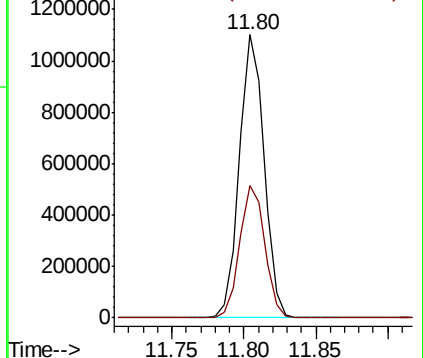
105 100

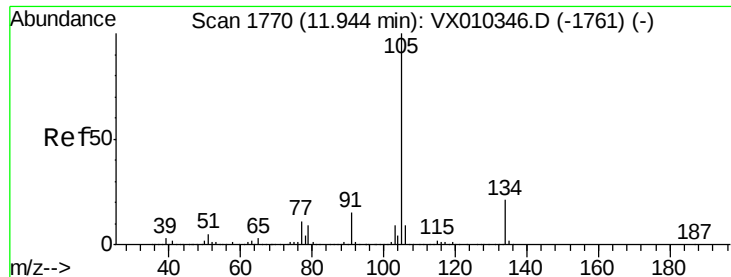
120 47.3 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

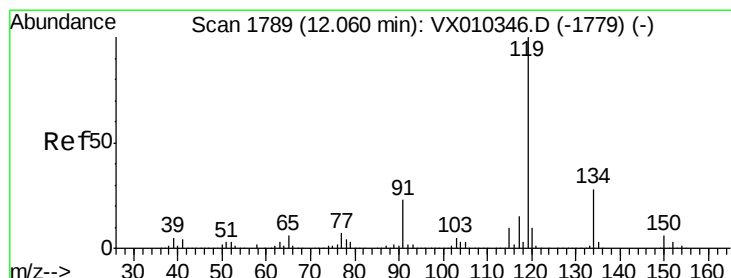
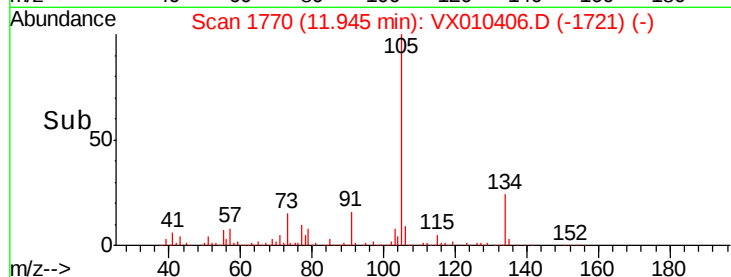
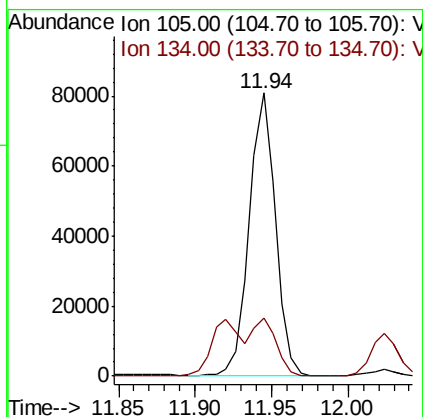
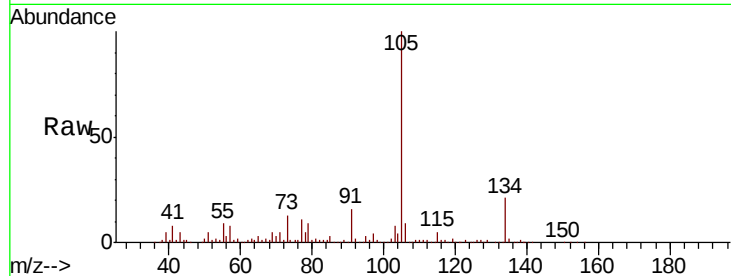




#85  
 sec-Butylbenzene  
 Concen: 7.268 ug/l  
 RT: 11.94 min Scan# 1770  
 Delta R.T. 0.00 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

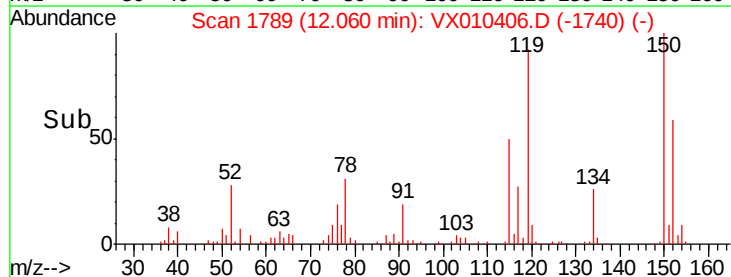
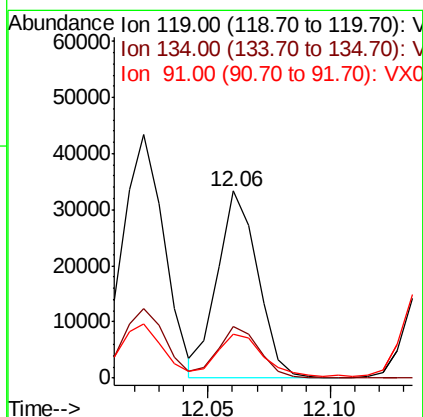
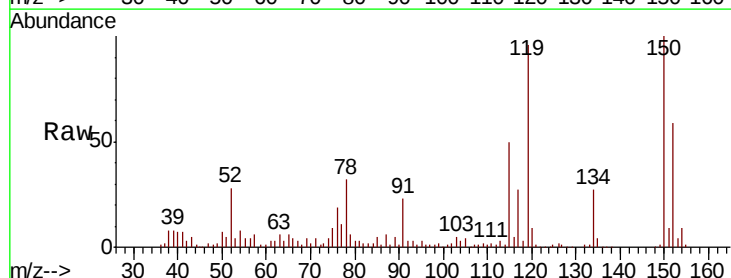
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-B-6

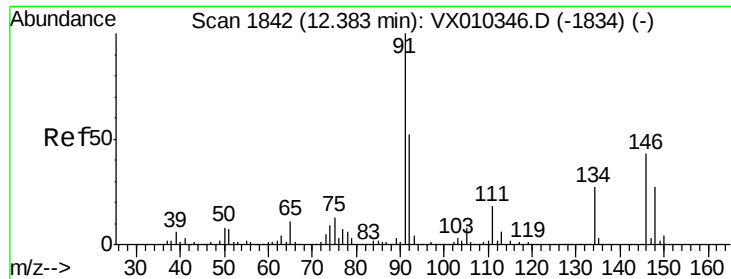
Tot Ion:105 Resp: 95720  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 10.7 31.9



#86  
 p-Isopropyltoluene  
 Concen: 3.124 ug/l  
 RT: 12.06 min Scan# 1789  
 Delta R.T. 0.00 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Tgt Ion:119 Resp: 38049  
 Ion Ratio Lower Upper  
 119 100  
 134 28.6 13.7 41.1  
 91 25.7 11.3 33.8

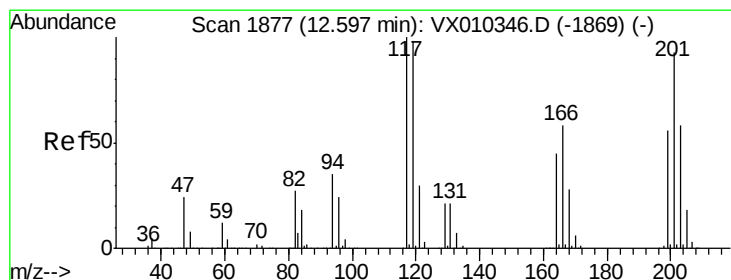
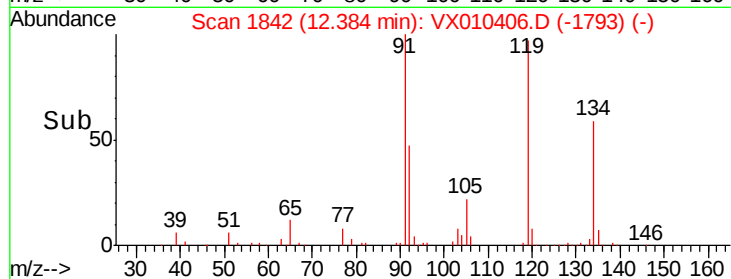
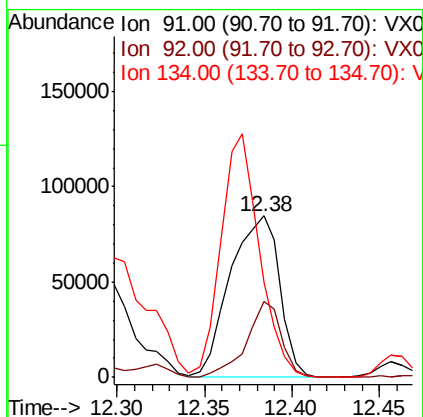
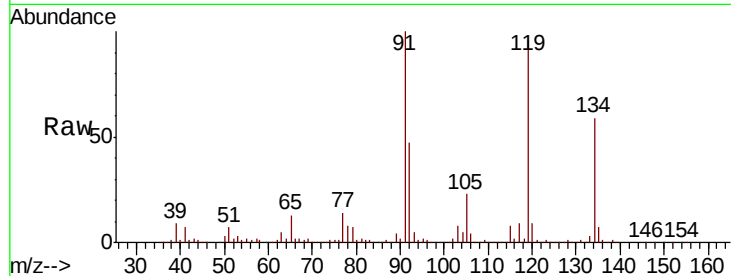




#89  
n-Butylbenzene  
Concen: 15.893 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

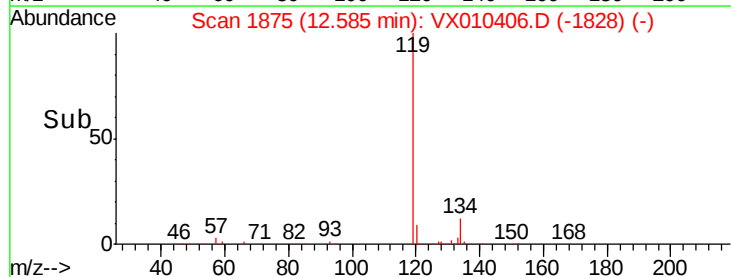
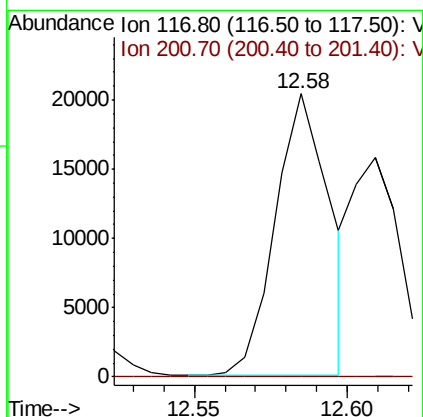
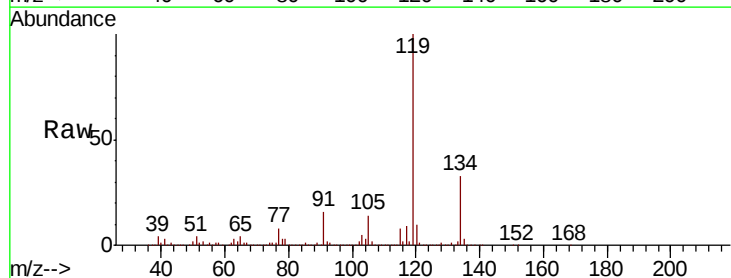
Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-B-6

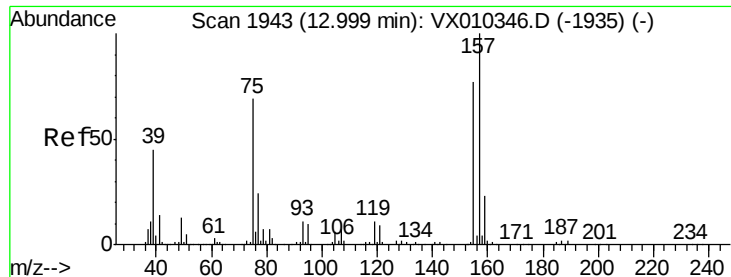
Tot Ion: 91 Resp: 164511  
Ion Ratio Lower Upper  
91 100  
92 33.3 26.2 78.5  
134 118.1 14.1 42.4#



#90  
Hexachloroethane  
Concen: 11.848 ug/l  
RT: 12.58 min Scan# 1875  
Delta R.T. -0.01 min  
Lab File: VX010406.D  
Acq: 24 Jun 2019 12:31

Tgt Ion: 117 Resp: 24956  
Ion Ratio Lower Upper  
117 100  
201 0.0 44.0 131.8#

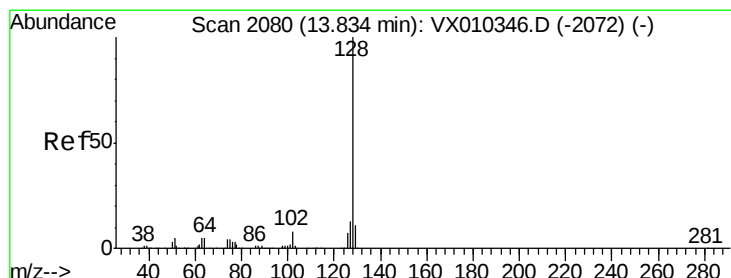
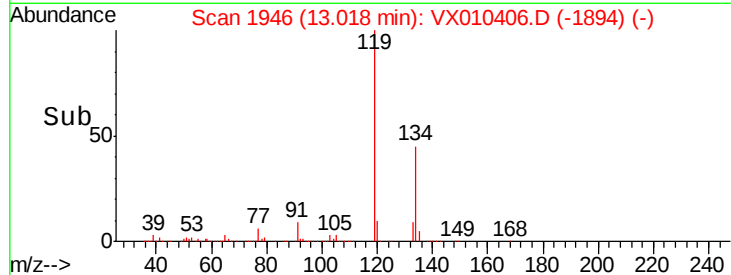
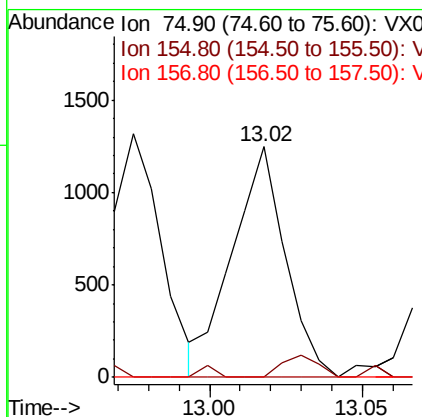
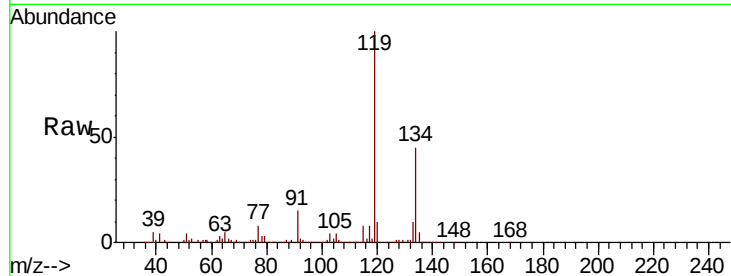




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.547 ug/l  
 RT: 13.02 min Scan# 1946  
 Delta R.T. 0.02 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-B-6

Tot Ion: 75 Resp: 1497  
 Ion Ratio Lower Upper  
 75 100  
 155 6.5 54.4 163.1#  
 157 0.0 69.5 208.3#



#95  
 Naphthalene  
 Concen: 12.150 ug/l  
 RT: 13.83 min Scan# 2080  
 Delta R.T. 0.00 min  
 Lab File: VX010406.D  
 Acq: 24 Jun 2019 12:31

Tgt Ion: 128 Resp: 170025  
 Ion Ratio Lower Upper  
 128 100  
 127 13.0 10.2 15.4  
 129 13.0 8.9 13.3

