

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX082219\  
 Data File : VX011772.D  
 Acq On : 22 Aug 2019 19:16  
 Operator : JC/SP  
 Sample : K4488-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 390821767.1-VOA

Quant Time: Aug 23 02:04:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 438318   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 631537   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 560353   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 293252   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 215942   | 49.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.08%  |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 182892   | 44.79 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.58%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 726599   | 51.01 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.02% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 257271   | 45.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.38%  |      |

| Target Compounds              |       |     |         |          |        | Qvalue |
|-------------------------------|-------|-----|---------|----------|--------|--------|
| 4) Vinyl Chloride             | 1.40  | 62  | 1488    | 0.415    | ug/l   | 98     |
| 8) Diethyl Ether              | 2.18  | 74  | 5780    | 2.977    | ug/l   | 91     |
| 11) Tert butyl alcohol        | 3.04  | 59  | 4101306 | 4713.680 | ug/l   | 99     |
| 13) Acrolein                  | 2.31  | 56  | 358     | 1.064    | ug/l # | 70     |
| 14) Allyl chloride            | 2.70  | 41  | 31511   | 5.852    | ug/l # | 45     |
| 15) Acrylonitrile             | 3.04  | 53  | 39682   | 19.939   | ug/l # | 22     |
| 16) Acetone                   | 2.43  | 43  | 8540    | 4.459    | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.56  | 76  | 3071    | 0.353    | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 3.19  | 73  | 27502   | 2.489    | ug/l # | 90     |
| 25) 2-Butanone                | 4.70  | 43  | 154465  | 56.183   | ug/l # | 76     |
| 26) 2,2-Dichloropropane       | 4.69  | 77  | 223772  | 42.742   | ug/l # | 51     |
| 27) cis-1,2-Dichloroethene    | 4.60  | 96  | 2335    | 0.548    | ug/l # | 21     |
| 29) Tetrahydrofuran           | 5.12  | 42  | 876539  | 497.364  | ug/l   | 99     |
| 31) Cyclohexane               | 5.65  | 56  | 6379    | 1.178    | ug/l # | 1      |
| 36) 1,1-Dichloropropene       | 5.65  | 75  | 27531   | 5.559    | ug/l # | 52     |
| 37) Ethyl Acetate             | 4.78  | 43  | 8755    | 1.671    | ug/l # | 73     |
| 38) Carbon Tetrachloride      | 5.65  | 117 | 39037   | 6.955    | ug/l # | 16     |
| 40) Benzene                   | 6.13  | 78  | 31858   | 2.080    | ug/l   | 98     |
| 41) Methacrylonitrile         | 5.12  | 41  | 492174  | 161.476  | ug/l # | 43     |
| 42) 1,2-Dichloroethane        | 6.20  | 62  | 2890    | 0.516    | ug/l   | 96     |
| 43) Isopropyl Acetate         | 6.43  | 43  | 3806    | 0.449    | ug/l # | 84     |
| 45) 1,2-Dichloropropane       | 7.52  | 63  | 1250    | 0.325    | ug/l # | 78     |
| 49) 1,4-Dioxane               | 7.73  | 88  | 12276   | 104.956  | ug/l # | 90     |
| 51) 4-Methyl-2-Pentanone      | 8.64  | 43  | 33416   | 5.979    | ug/l # | 86     |
| 52) Toluene                   | 8.78  | 92  | 18460   | 1.862    | ug/l   | 96     |
| 59) 2-Hexanone                | 9.30  | 43  | 15765   | 3.675    | ug/l   | 73     |
| 65) Chlorobenzene             | 10.13 | 112 | 8054    | 0.736    | ug/l   | 89     |
| 67) Ethyl Benzene             | 10.25 | 91  | 16459   | 0.900    | ug/l   | 93     |
| 68) m/p-Xylenes               | 10.35 | 106 | 53916   | 7.648    | ug/l   | 100    |
| 69) o-Xylene                  | 10.69 | 106 | 31748   | 4.587    | ug/l   | 96     |
| 70) Styrene                   | 10.71 | 104 | 4514    | 0.390    | ug/l # | 1      |
| 73) Isopropylbenzene          | 11.01 | 105 | 75171   | 4.254    | ug/l   | 99     |
| 74) N-amyl acetate            | 10.94 | 43  | 6848    | 1.001    | ug/l # | 54     |
| 75) 1,1,2,2-Tetrachloroethane | 11.35 | 83  | 2217    | 0.379    | ug/l   | 80     |

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 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 2019  
 Response via : Initial Calibration

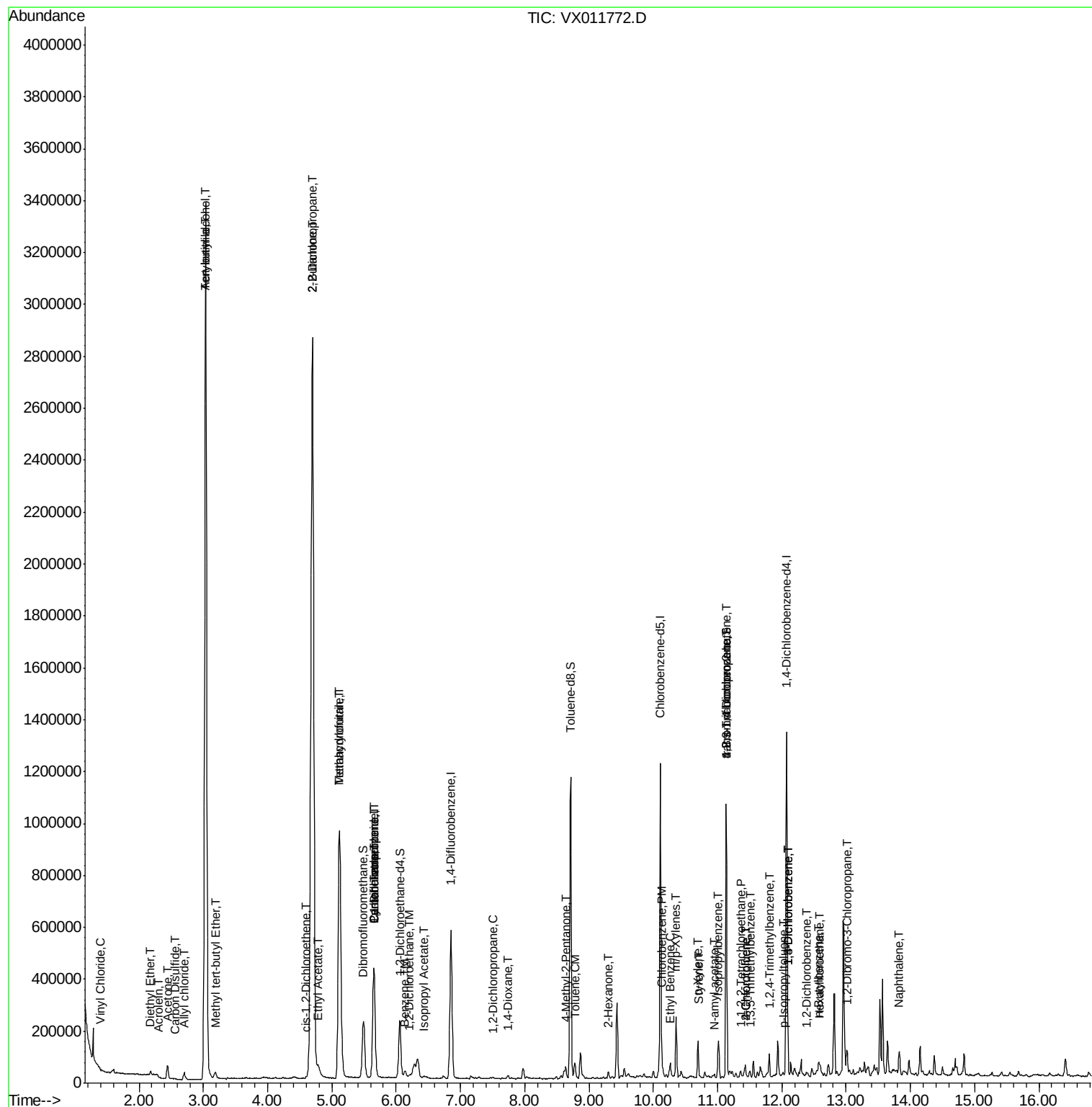
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 121678   | 23.647 | ug/l # | 35       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 4666     | 0.397  | ug/l   | 72       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 11071    | 0.751  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 121678   | 71.314 | ug/l # | 11       |
| 82) 4-Chlorotoluene            | 11.43 | 91   | 4737     | 0.350  | ug/l   | 78       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 40252    | 2.703  | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 12.02 | 119  | 4644     | 0.290  | ug/l   | 90       |
| 87) 1,3-Dichlorobenzene        | 12.10 | 146  | 36920    | 4.115  | ug/l   | 93       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 36920    | 4.067  | ug/l   | 93       |
| 89) n-Butylbenzene             | 12.57 | 91   | 6426     | 0.485  | ug/l   | 73       |
| 90) Hexachloroethane           | 12.58 | 117  | 1030     | 0.414  | ug/l # | 5        |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 2286     | 0.253  | ug/l   | 79       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 354      | 0.260  | ug/l # | 38       |
| 95) Naphthalene                | 13.83 | 128  | 15208    | 0.830  | ug/l # | 91       |

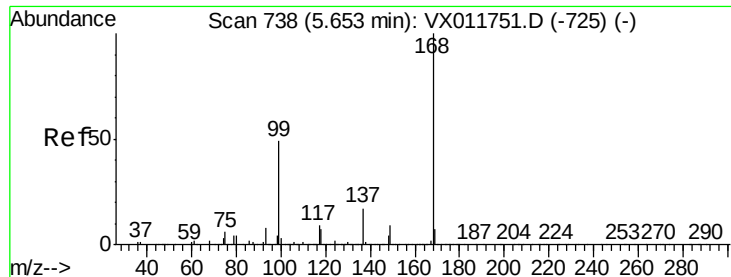
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

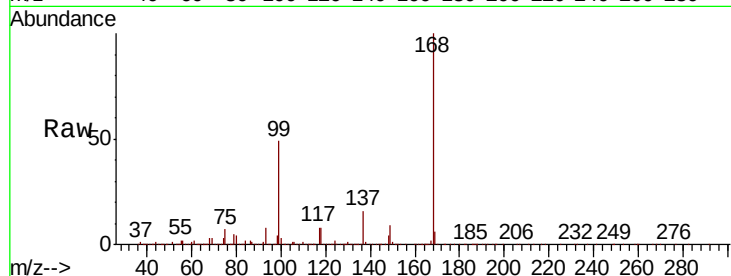
390821767.1-VOA

Tgt Ion:168 Resp: 438318

Ion Ratio Lower Upper

168 100

99 48.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

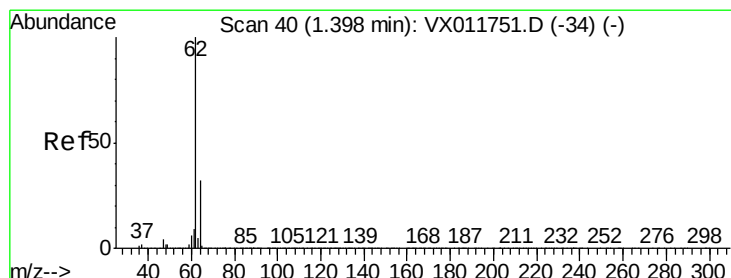
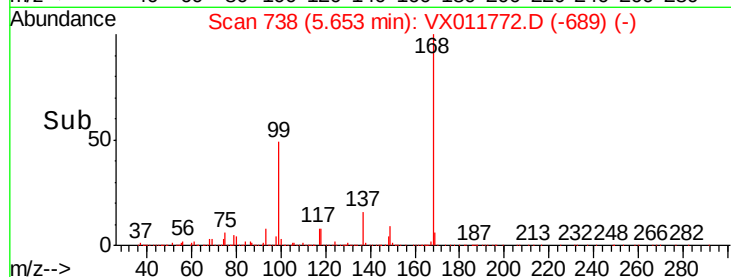
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.415 ug/l

RT: 1.40 min Scan# 40

Delta R.T. 0.00 min

Lab File: VX011772.D

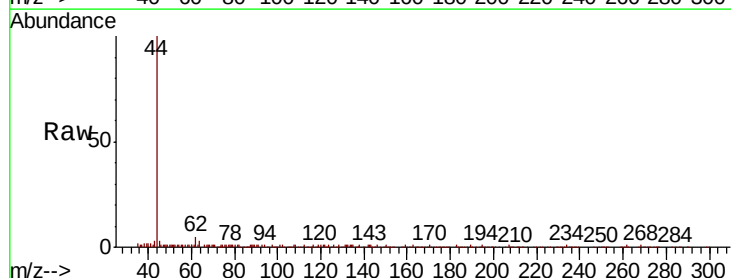
Acq: 22 Aug 2019 19:16

Tgt Ion: 62 Resp: 1488

Ion Ratio Lower Upper

62 100

64 33.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1200

1000

800

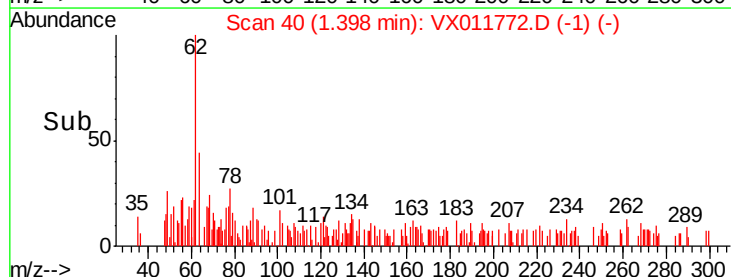
600

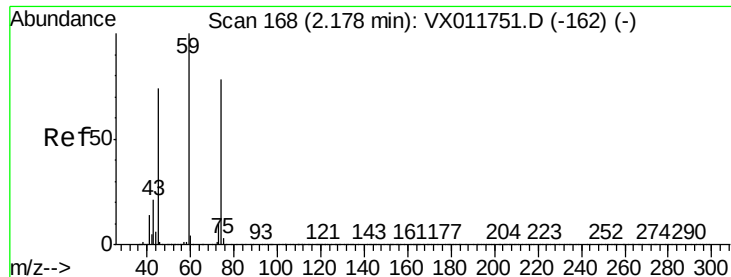
400

200

0

Time--> 1.35 1.40





#8

Diethyl Ether

Concen: 2.977 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

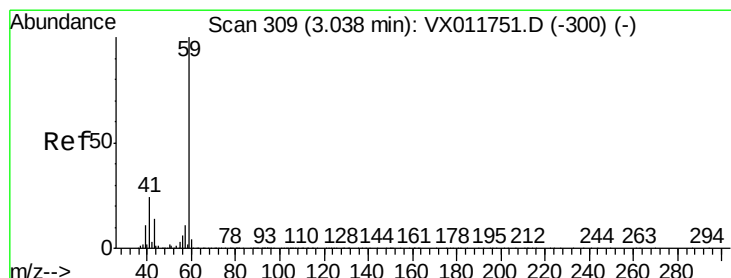
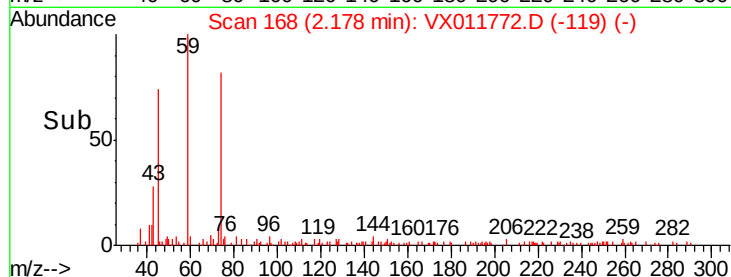
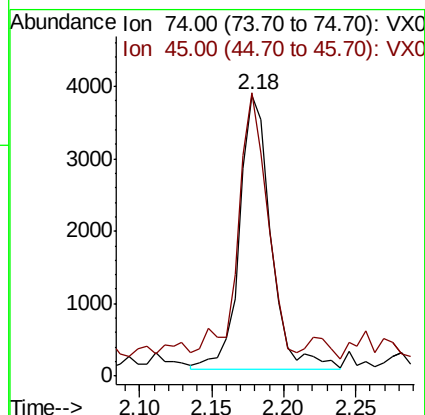
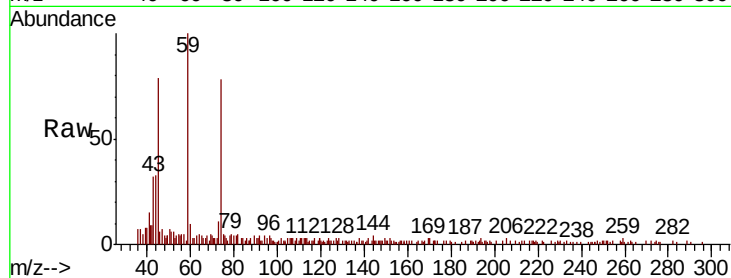
390821767.1-VOA

Tgt Ion: 74 Resp: 5780

Ion Ratio Lower Upper

74 100

45 85.1 46.7 140.0



#11

Tert butyl alcohol

Concen: 4713.680 ug/l

RT: 3.04 min Scan# 309

Delta R.T. 0.00 min

Lab File: VX011772.D

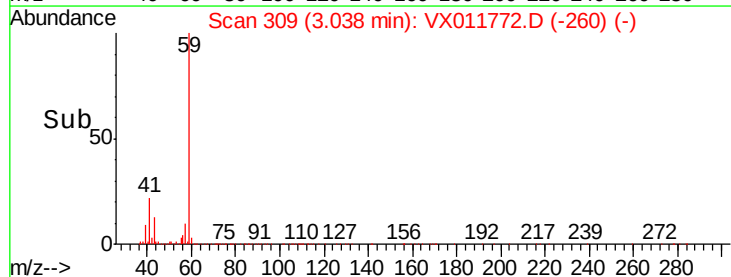
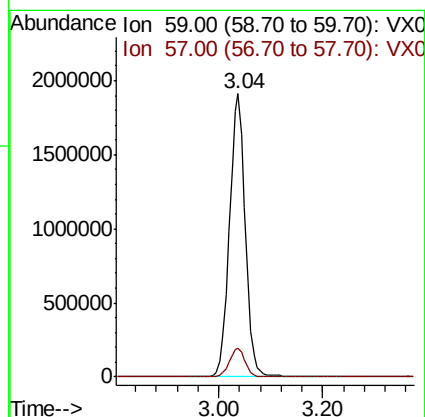
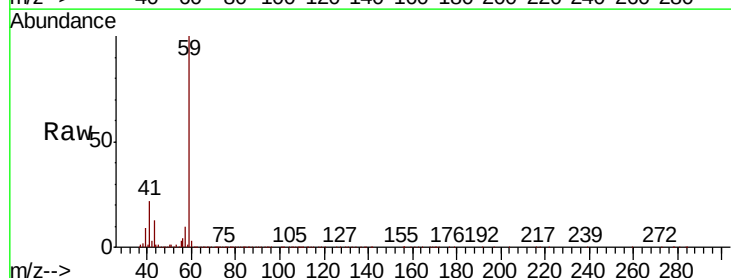
Acq: 22 Aug 2019 19:16

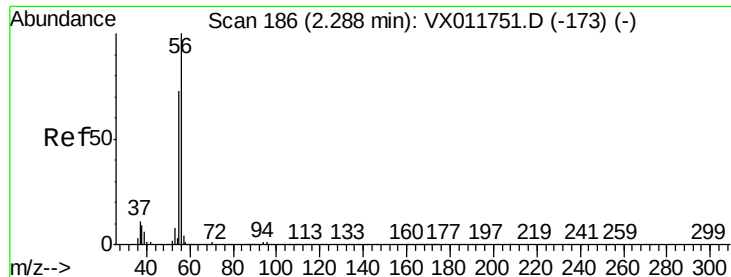
Tgt Ion: 59 Resp: 4101306

Ion Ratio Lower Upper

59 100

57 10.1 8.4 12.6





#13

Acrolein

Concen: 1.064 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

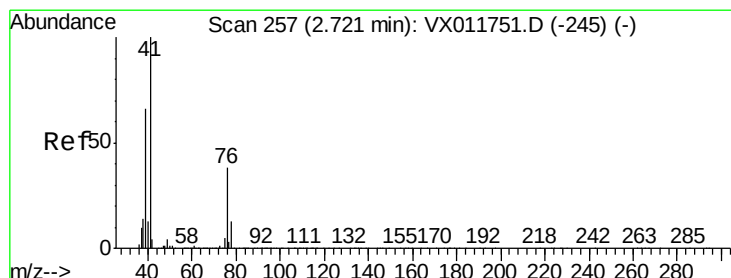
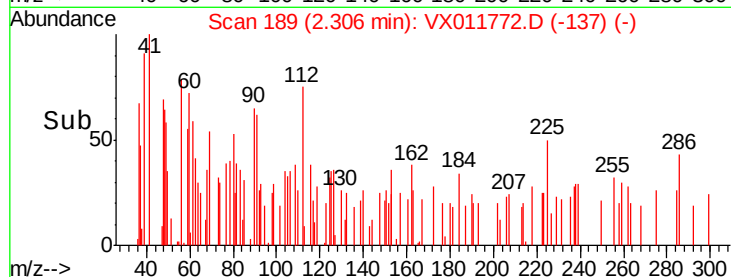
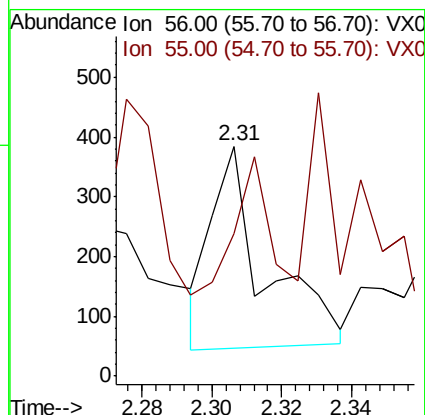
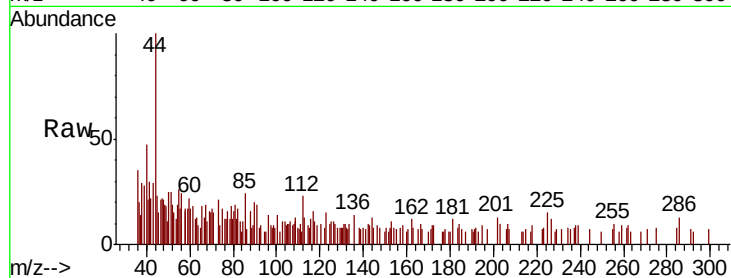
390821767.1-VOA

Tgt Ion: 56 Resp: 358

Ion Ratio Lower Upper

56 100

55 44.1 54.8 82.2#



#14

Allyl chloride

Concen: 5.852 ug/l

RT: 2.70 min Scan# 254

Delta R.T. -0.02 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

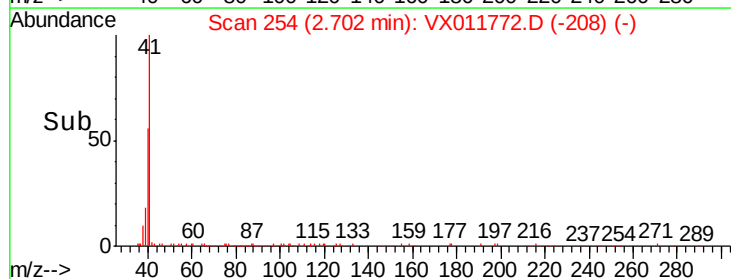
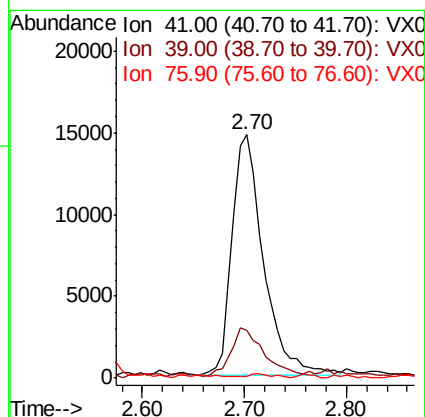
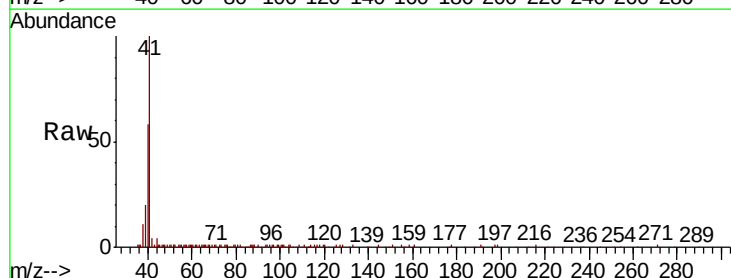
Tgt Ion: 41 Resp: 31511

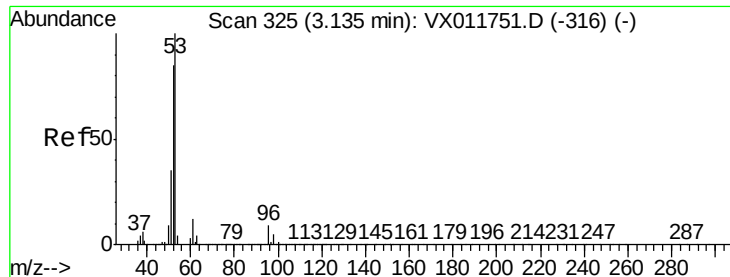
Ion Ratio Lower Upper

41 100

39 20.5 49.3 73.9#

76 1.0 26.8 40.2#

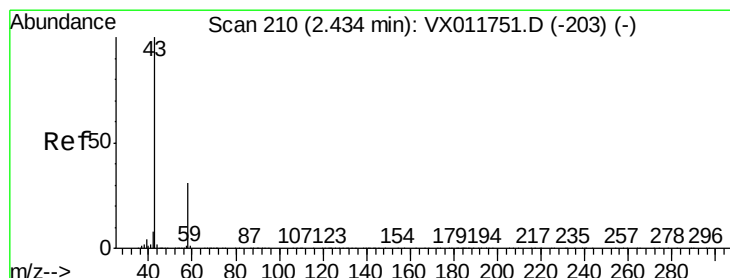
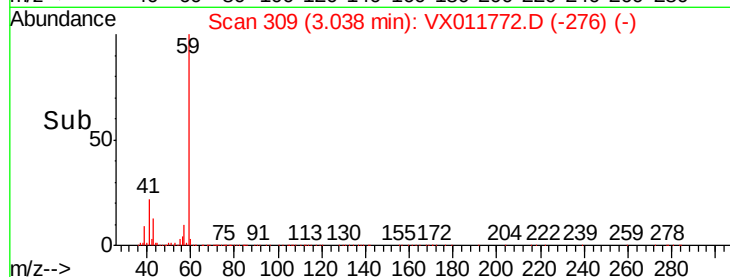
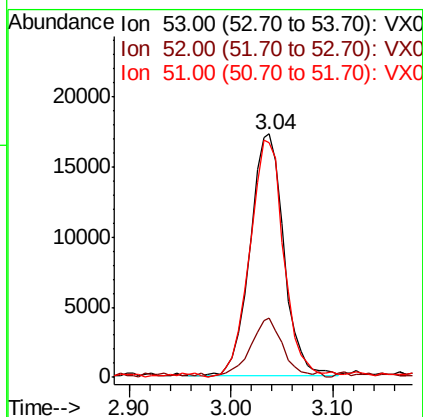
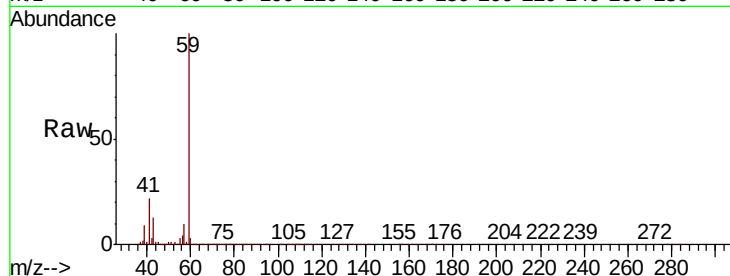




#15  
Acrylonitrile  
Concen: 19.939 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. -0.10 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

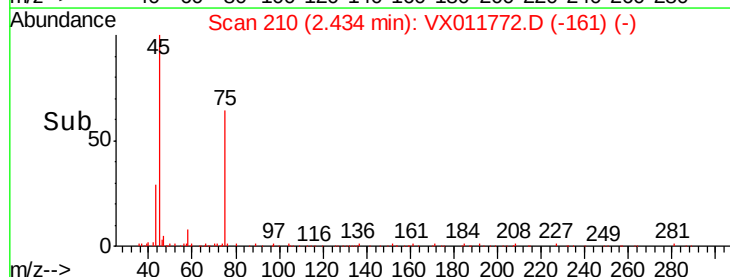
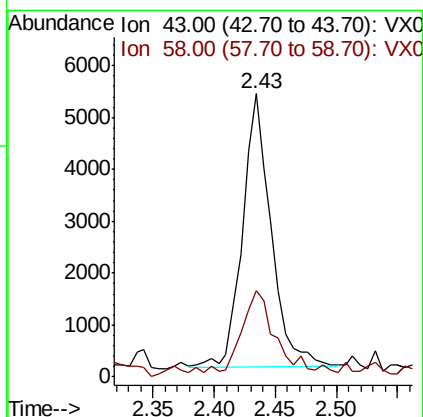
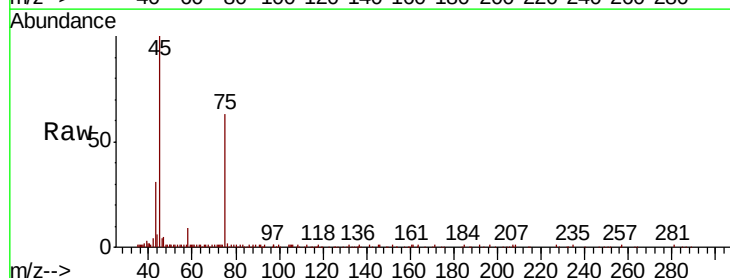
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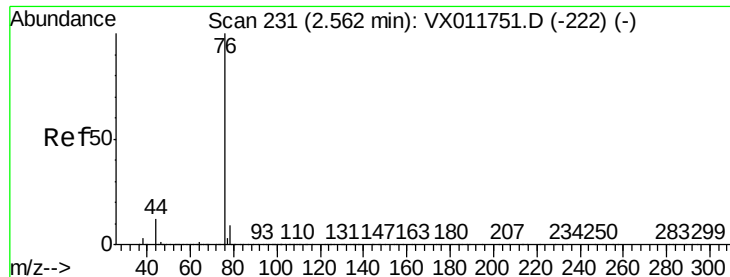
Tgt Ion: 53 Resp: 39682  
Ion Ratio Lower Upper  
53 100  
52 24.2 65.7 98.5#  
51 98.5 28.6 43.0#



#16  
Acetone  
Concen: 4.459 ug/l  
RT: 2.43 min Scan# 210  
Delta R.T. 0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion: 43 Resp: 8540  
Ion Ratio Lower Upper  
43 100  
58 29.7 24.4 36.6





#17

Carbon Disulfide

Concen: 0.353 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

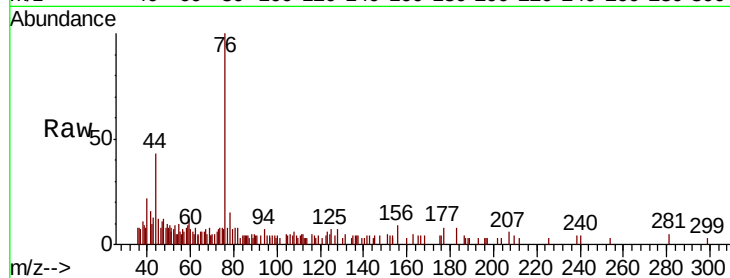
390821767.1-VOA

Tgt Ion: 76 Resp: 3071

Ion Ratio Lower Upper

76 100

78 8.1 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

2000

1500

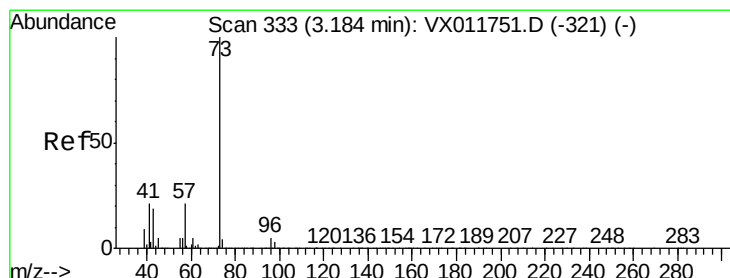
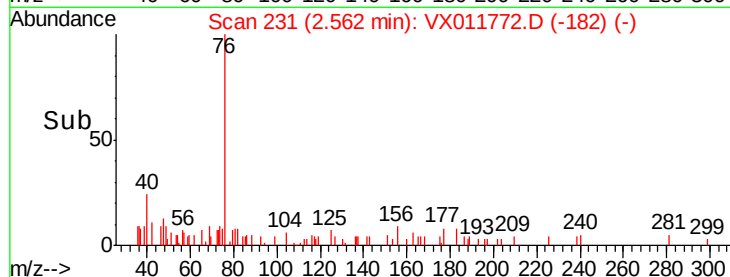
1000

500

0

2.50 2.55 2.60

Time-->



#19

Methyl tert-butyl Ether

Concen: 2.489 ug/l

RT: 3.19 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX011772.D

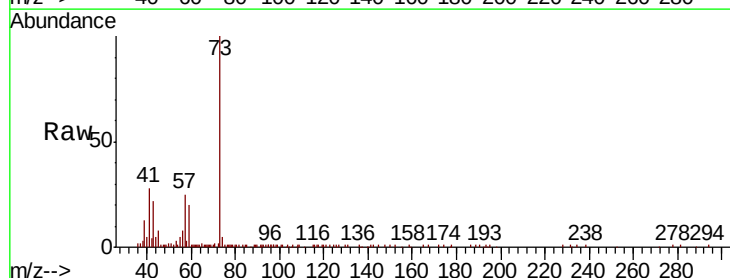
Acq: 22 Aug 2019 19:16

Tgt Ion: 73 Resp: 27502

Ion Ratio Lower Upper

73 100

57 24.9 16.4 24.6#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

150000

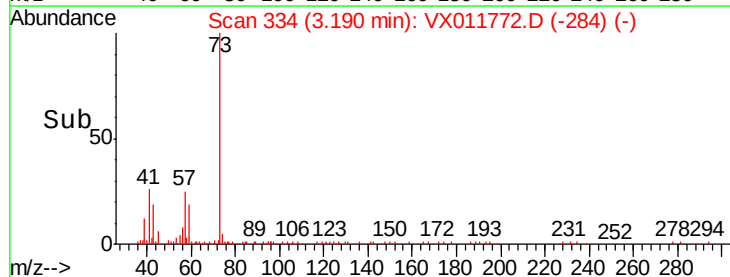
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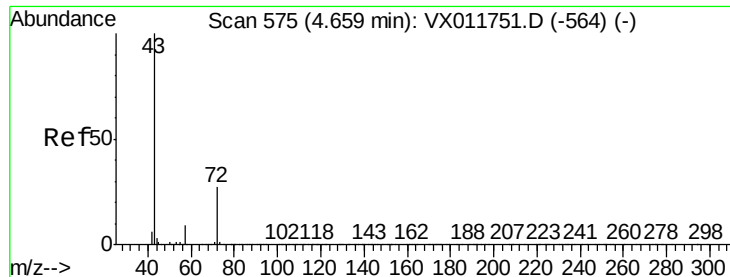
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3.10 3.19 3.20 3.30

Time-->







#25

2-Butanone

Concen: 56.183 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.04 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

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MSVOA\_X

ClientSampleId :

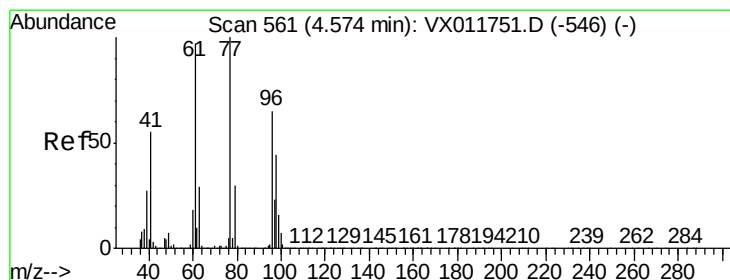
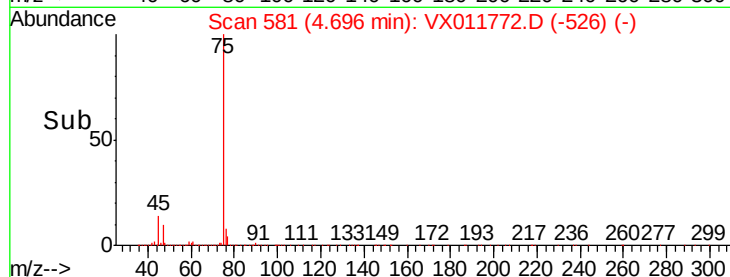
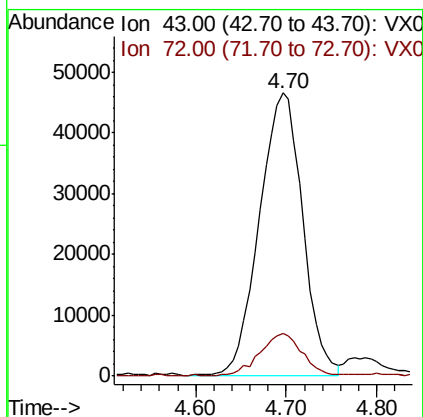
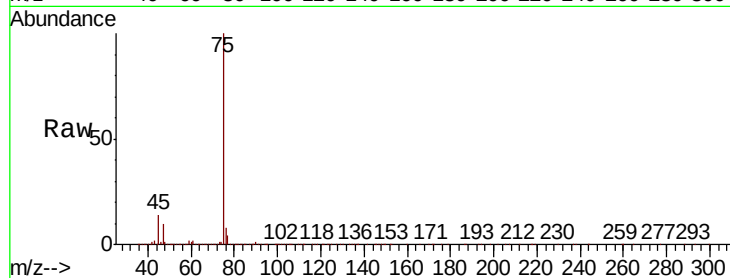
390821767.1-VOA

Tgt Ion: 43 Resp: 154465

Ion Ratio Lower Upper

43 100

72 14.8 21.8 32.6#



#26

2,2-Dichloropropane

Concen: 42.742 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.12 min

Lab File: VX011772.D

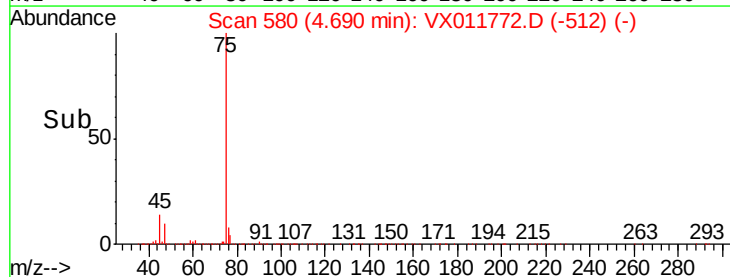
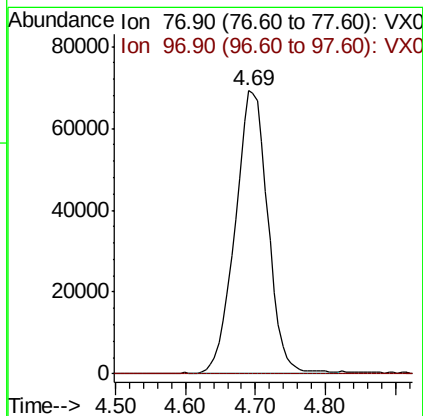
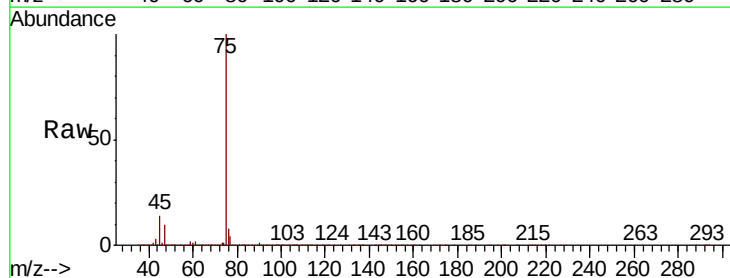
Acq: 22 Aug 2019 19:16

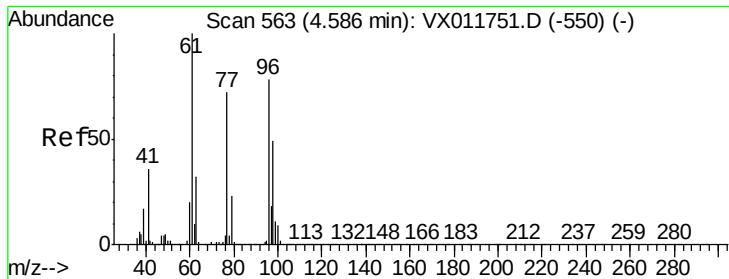
Tgt Ion: 77 Resp: 223772

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.6#



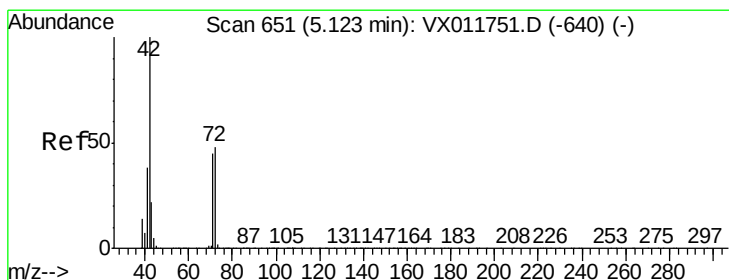
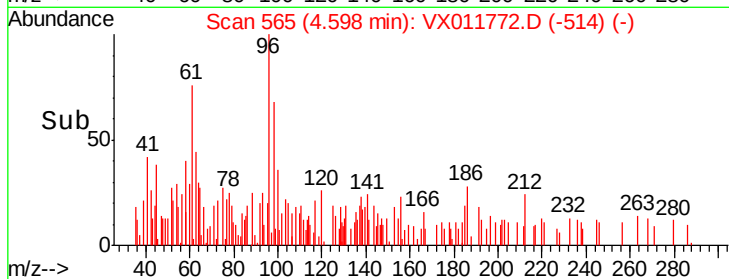
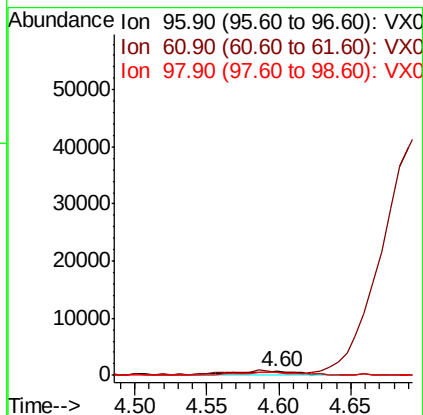
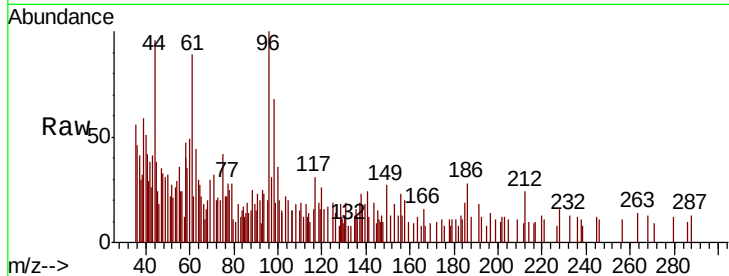


#27

cis-1,2-Dichloroethene  
 Concen: 0.548 ug/l  
 RT: 4.60 min Scan# 565  
 Delta R.T. 0.01 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 390821767.1-VOA

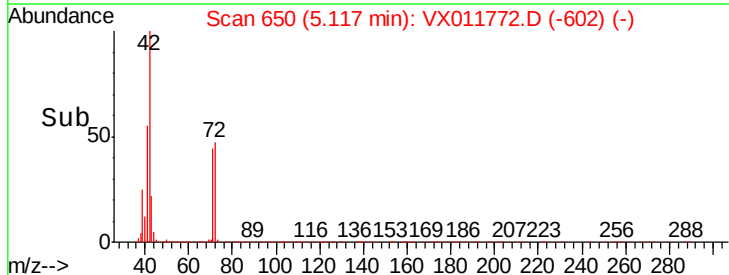
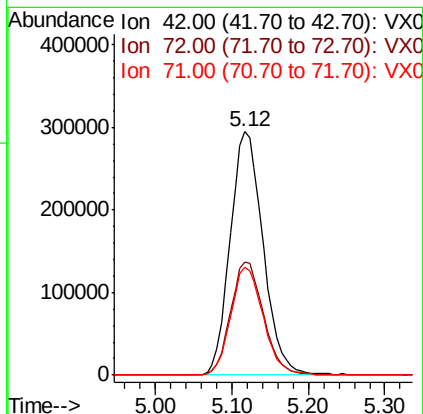
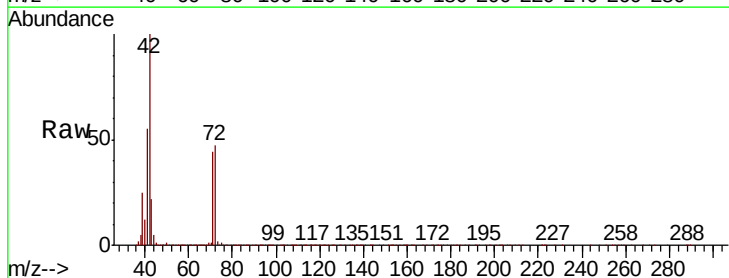
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 0.0   | 0.0   | 275.8 |
| 98      | 66.9  | 0.0   | 128.2 |

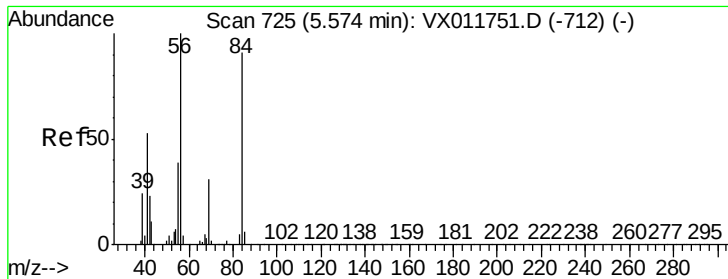


#29

Tetrahydrofuran  
 Concen: 497.364 ug/l  
 RT: 5.12 min Scan# 650  
 Delta R.T. -0.01 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 46.5  | 37.6  | 56.4  |
| 71      | 43.7  | 34.6  | 51.8  |

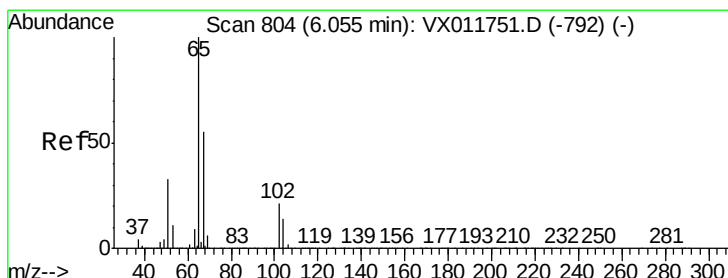
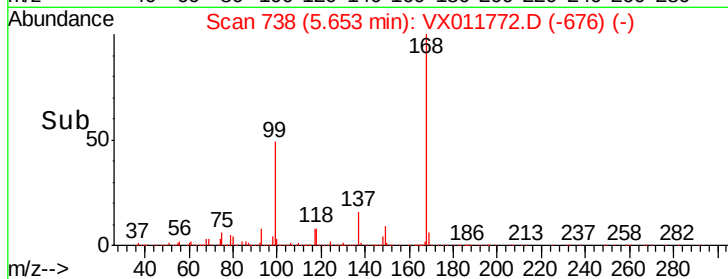
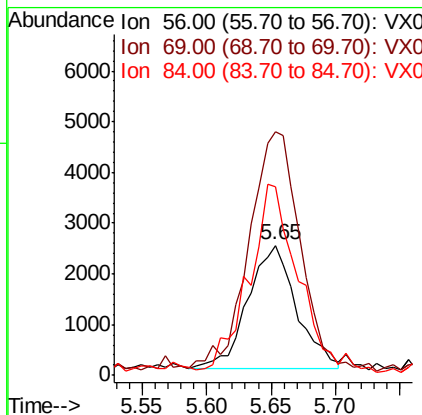
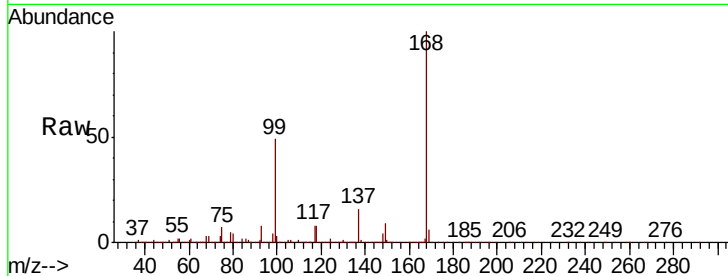




#31  
Cyclohexane  
Concen: 1.178 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. 0.08 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

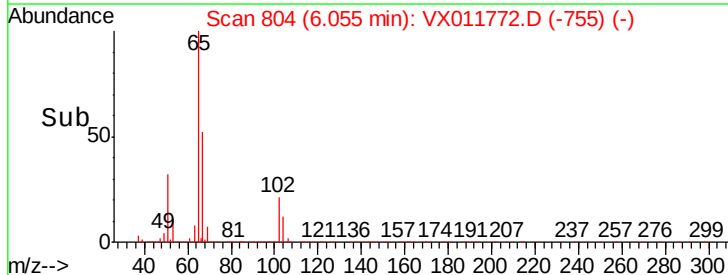
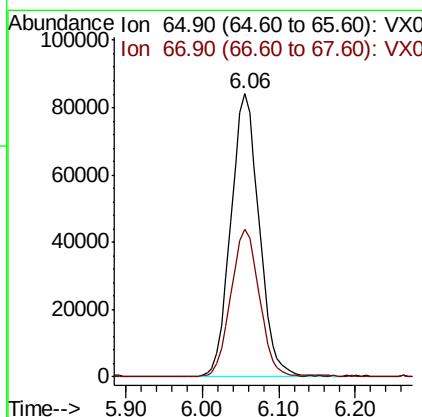
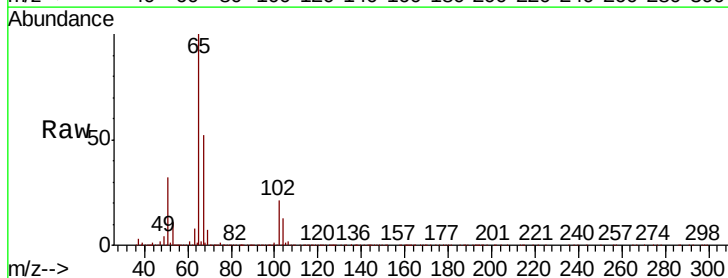
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

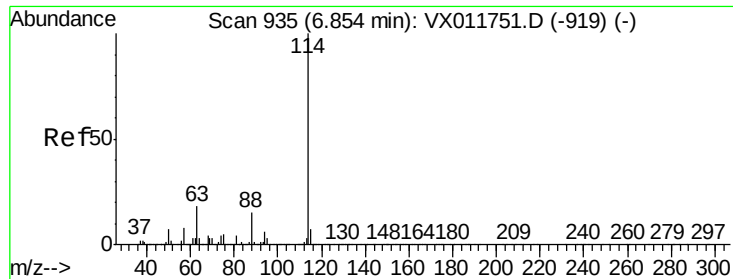
Tgt Ion: 56 Resp: 6379  
Ion Ratio Lower Upper  
56 100  
69 191.6 24.5 36.7#  
84 144.0 72.7 109.1#



#33  
1,2-Dichloroethane-d4  
Concen: 49.042 ug/l  
RT: 6.06 min Scan# 804  
Delta R.T. 0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion: 65 Resp: 215942  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 107.8

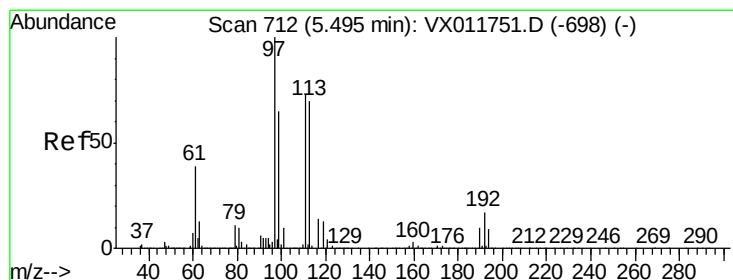
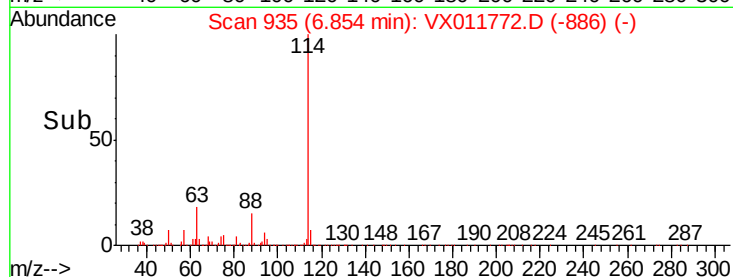
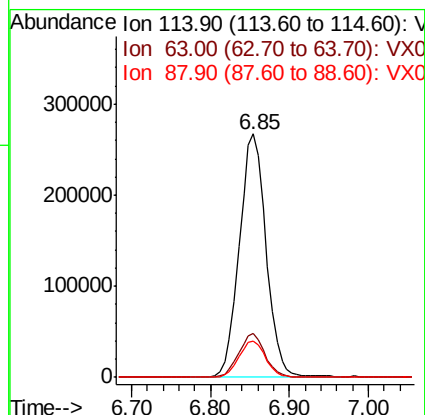
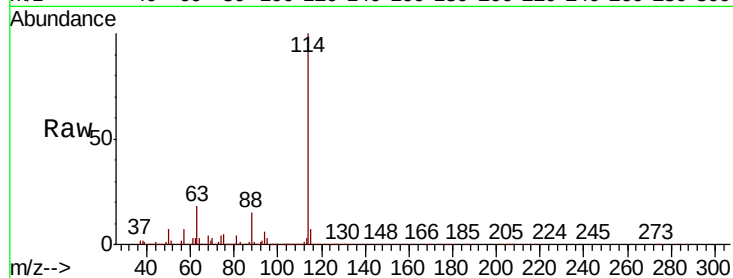




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.85 min Scan# 935  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

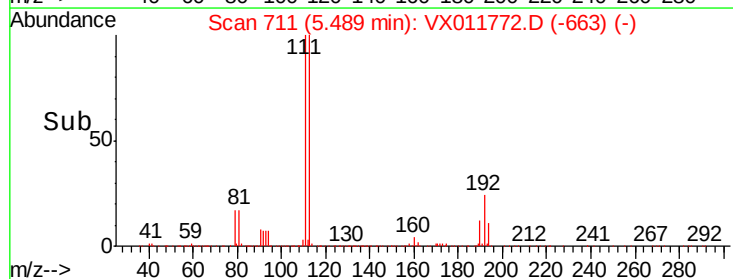
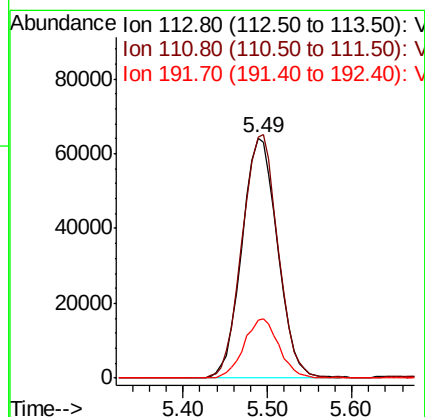
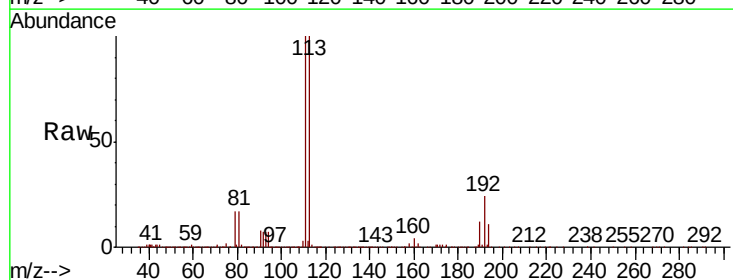
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

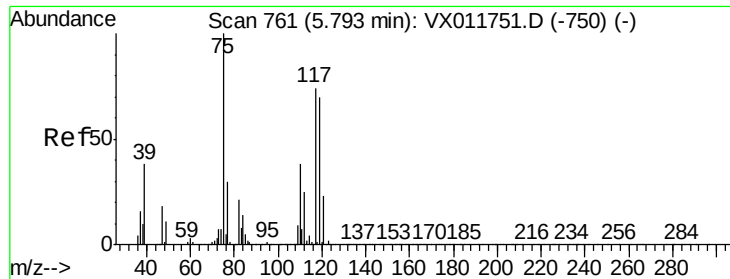
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 631537 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 18.0  | 0.0   | 36.8   |
| 88       | 14.7  | 0.0   | 30.2   |



#35  
Dibromofluoromethane  
Concen: 44.785 ug/l  
RT: 5.49 min Scan# 711  
Delta R.T. -0.01 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 182892 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.3 | 81.0  | 121.4  |
| 192      | 24.3  | 19.9  | 29.9   |

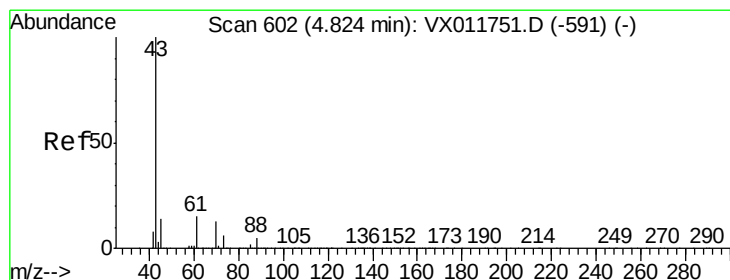
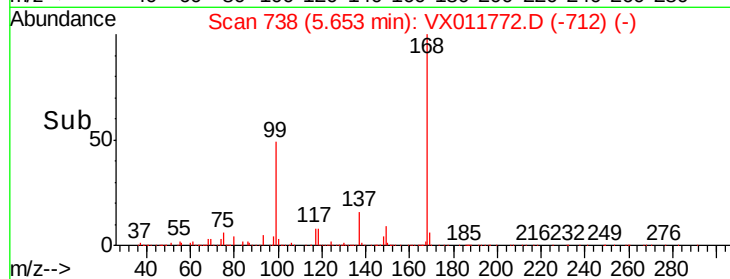
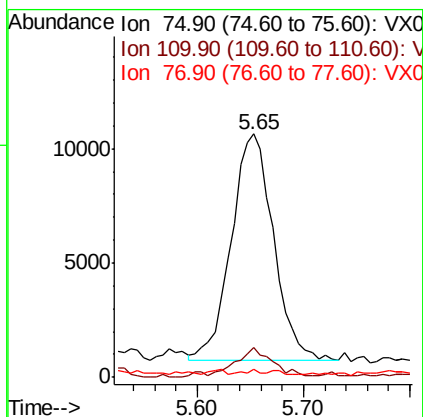
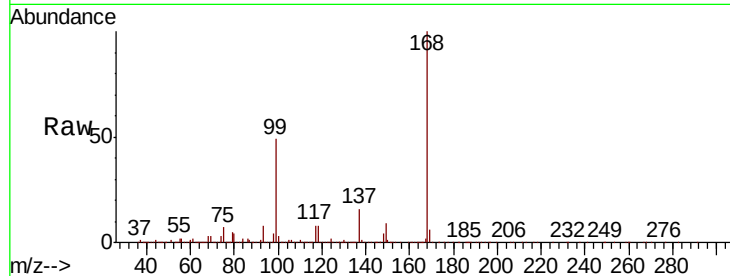




#36  
 1,1-Dichloropropene  
 Concen: 5.559 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.14 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

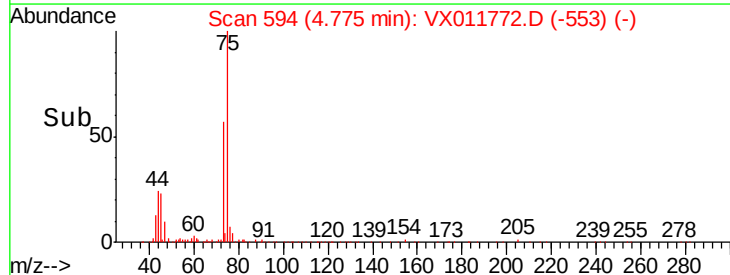
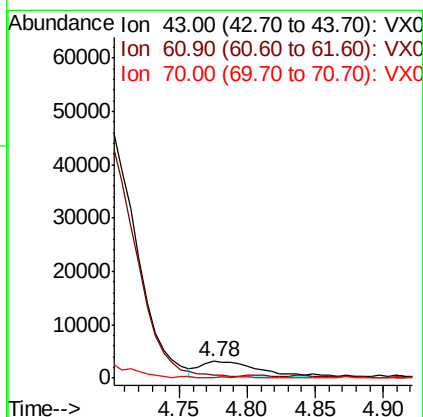
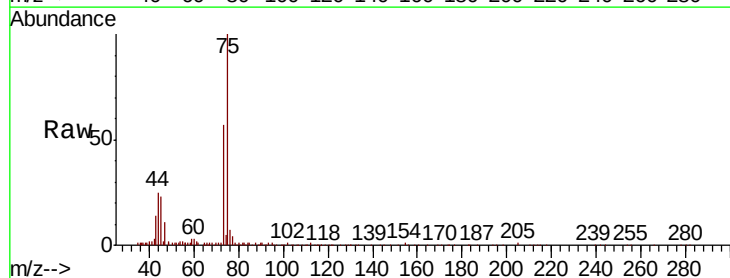
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 390821767.1-VOA

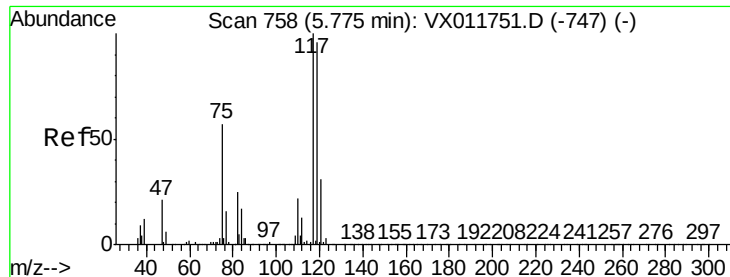
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.7  | 19.0  | 57.0# |
| 77      | 0.8   | 24.6  | 36.8# |



#37  
 Ethyl Acetate  
 Concen: 1.671 ug/l  
 RT: 4.78 min Scan# 594  
 Delta R.T. -0.05 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 11.5  | 17.3# |
| 70      | 5.1   | 9.5   | 14.3# |

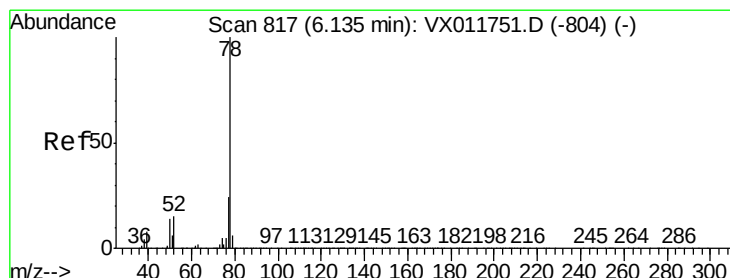
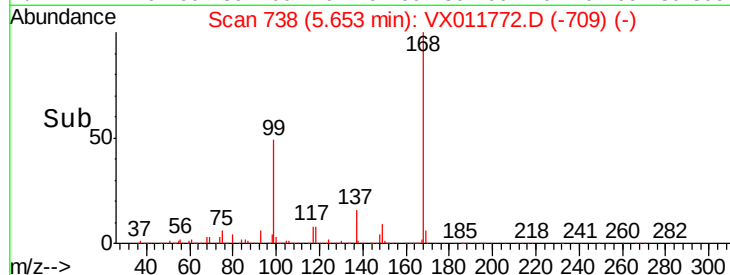
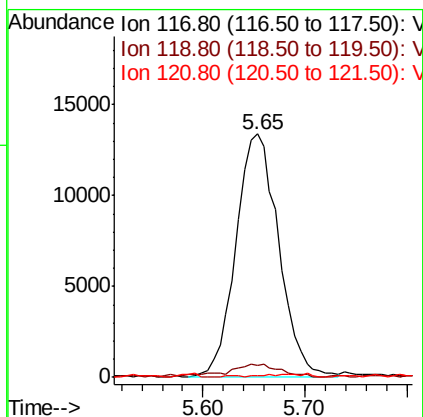
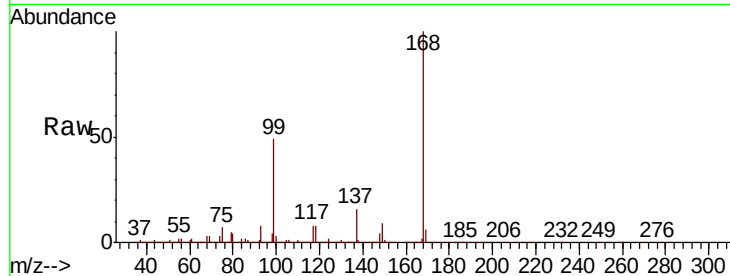




#38  
Carbon Tetrachloride  
Concen: 6.955 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. -0.12 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

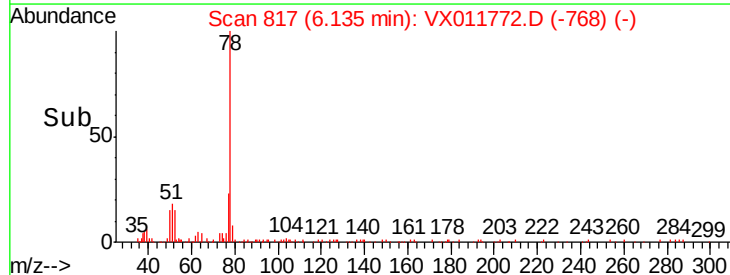
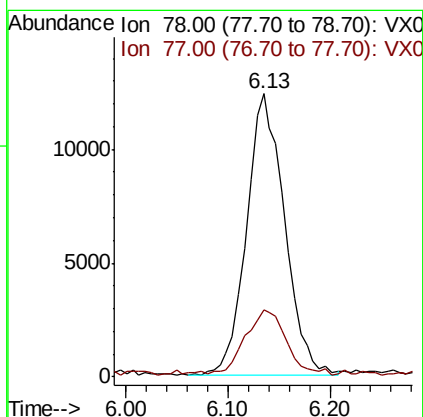
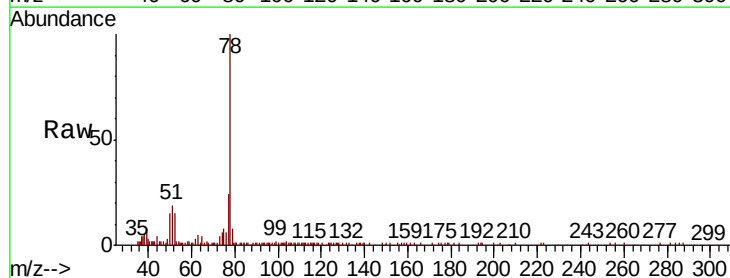
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

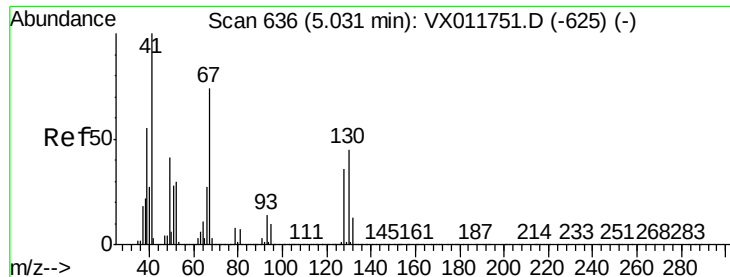
Tgt Ion: 117 Resp: 39037  
Ion Ratio Lower Upper  
117 100  
119 4.3 76.6 114.8#  
121 0.3 25.2 37.8#



#40  
Benzene  
Concen: 2.080 ug/l  
RT: 6.13 min Scan# 817  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion: 78 Resp: 31858  
Ion Ratio Lower Upper  
78 100  
77 22.7 19.1 28.7

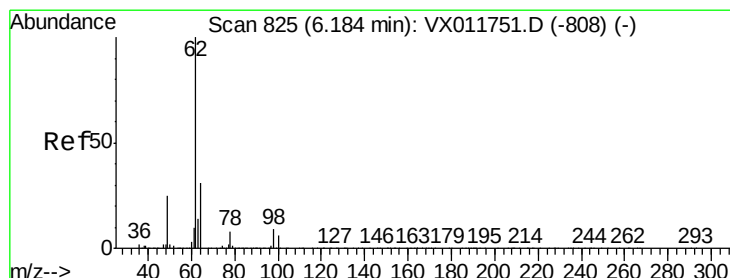
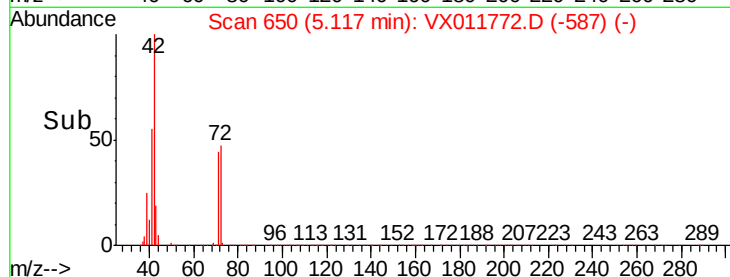
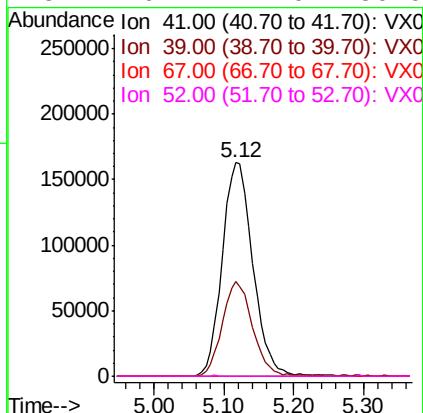
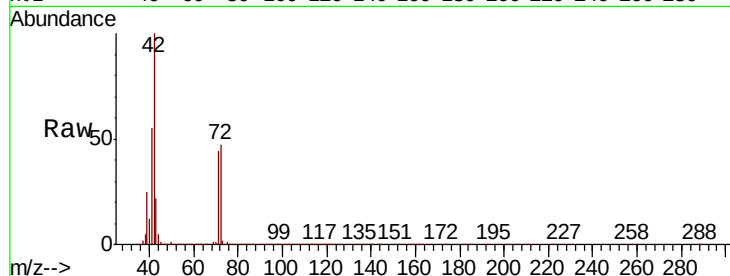




#41  
Methacrylonitrile  
Concen: 161.476 ug/l  
RT: 5.12 min Scan# 650  
Delta R.T. 0.09 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

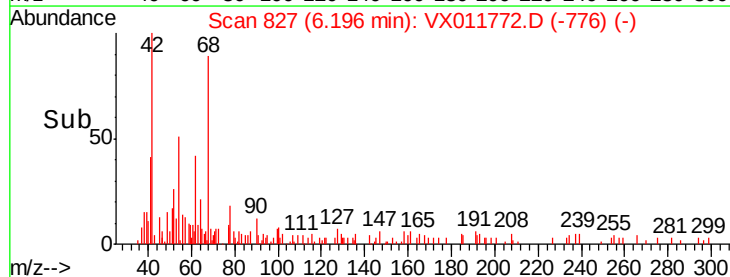
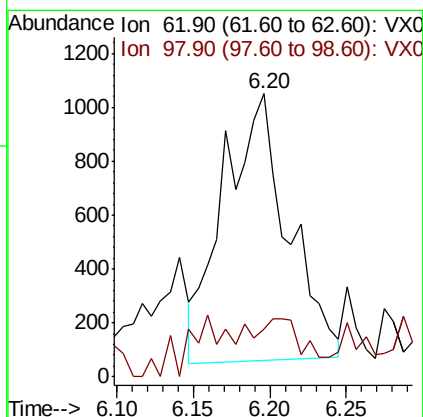
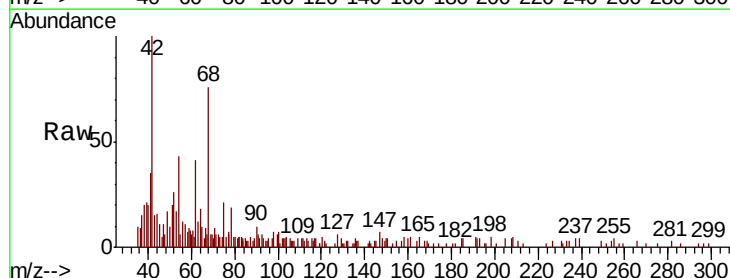
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

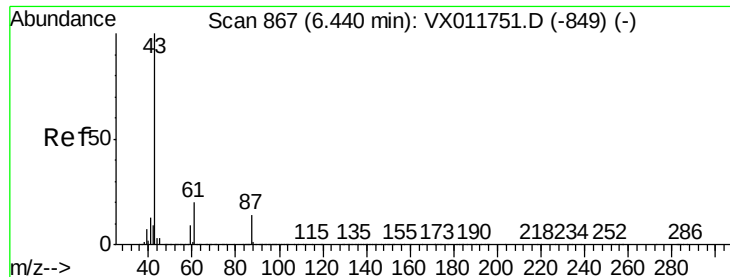
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 492174 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 44.0  | 44.3  | 66.5#  |
| 67       | 0.0   | 60.3  | 90.5#  |
| 52       | 0.1   | 24.0  | 36.0#  |



#42  
1,2-Dichloroethane  
Concen: 0.516 ug/l  
RT: 6.20 min Scan# 827  
Delta R.T. 0.01 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 2890  |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.9  | 0.0   | 18.8  |





#43

Isopropyl Acetate

Concen: 0.449 ug/l

RT: 6.43 min Scan# 866

Delta R.T. -0.01 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

390821767.1-VOA

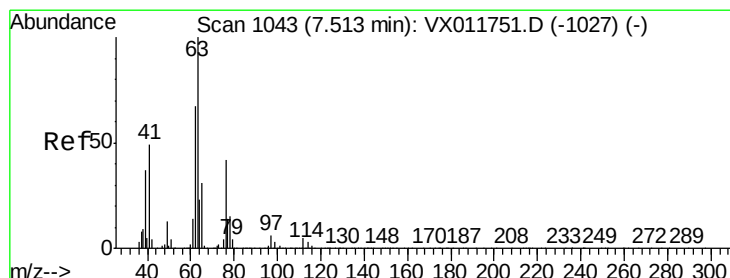
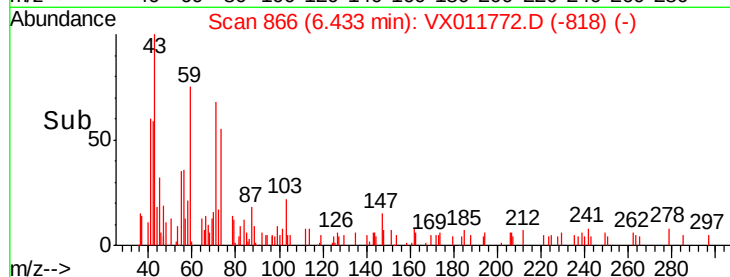
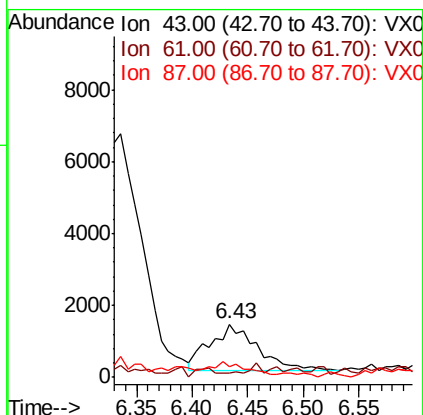
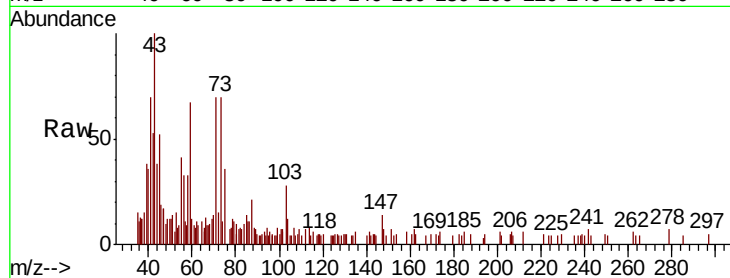
Tgt Ion: 43 Resp: 3806

Ion Ratio Lower Upper

43 100

61 10.3 16.2 24.2#

87 17.9 11.6 17.4#



#45

1,2-Dichloropropane

Concen: 0.325 ug/l

RT: 7.52 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VX011772.D

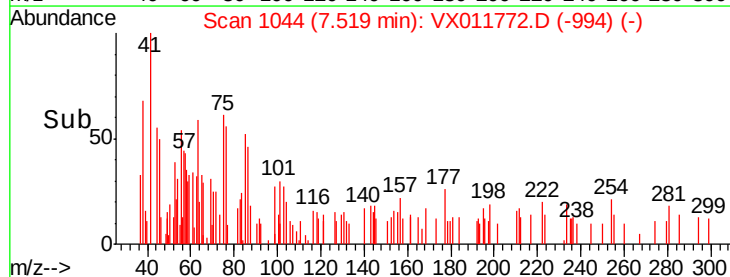
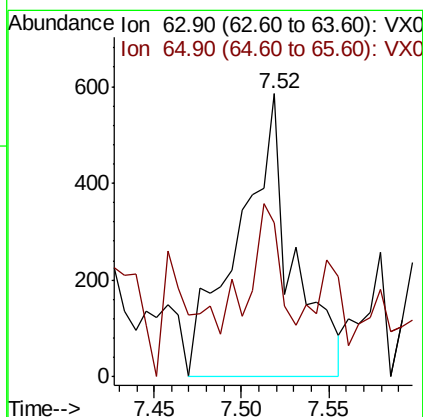
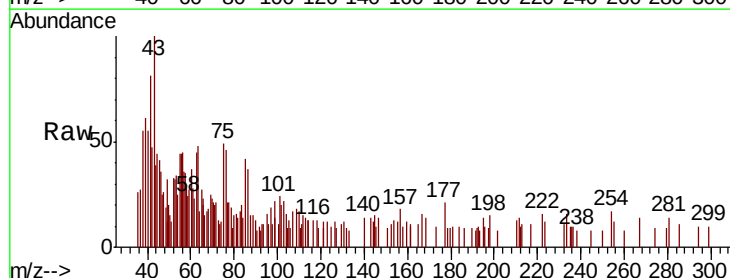
Acq: 22 Aug 2019 19:16

Tgt Ion: 63 Resp: 1250

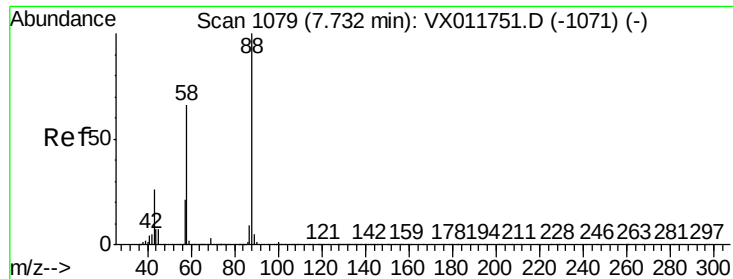
Ion Ratio Lower Upper

63 100

65 18.6 24.8 37.2#



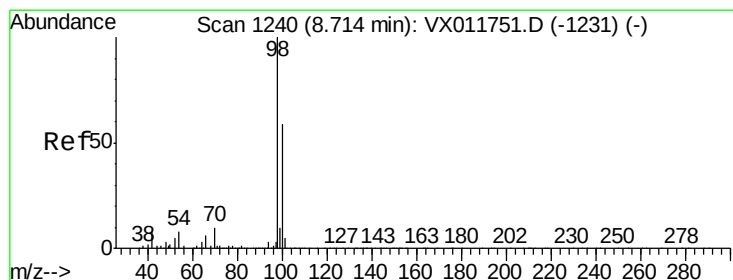
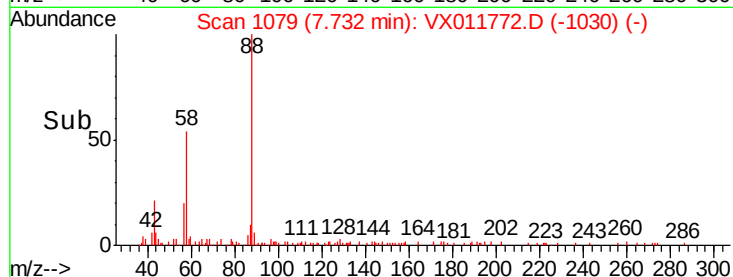
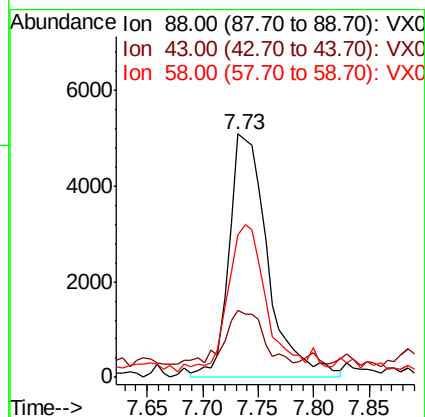
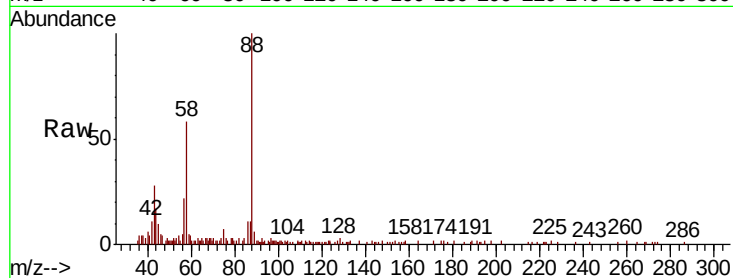




#49  
1,4-Dioxane  
Concen: 104.956 ug/l  
RT: 7.73 min Scan# 1079  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

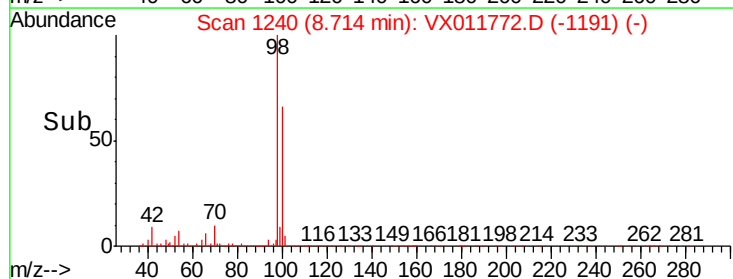
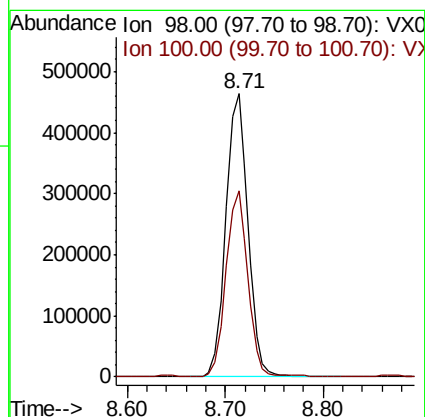
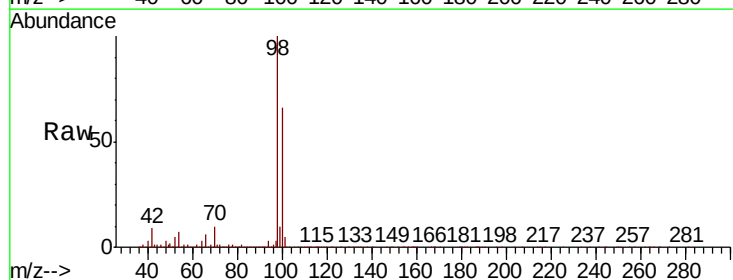
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

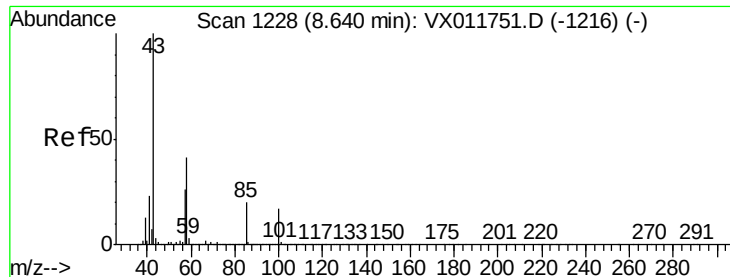
Tgt Ion: 88 Resp: 12276  
Ion Ratio Lower Upper  
88 100  
43 22.0 24.6 37.0#  
58 59.2 51.4 77.2



#50  
Toluene-d8  
Concen: 51.010 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion: 98 Resp: 726599  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.1 78.1

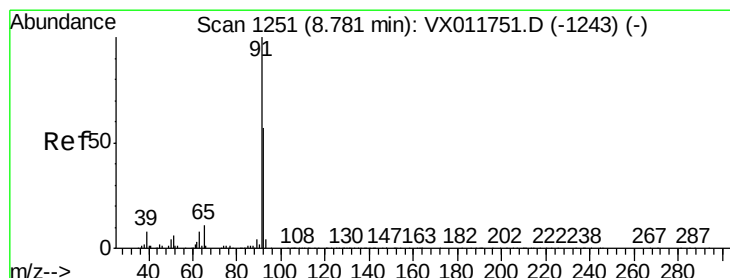
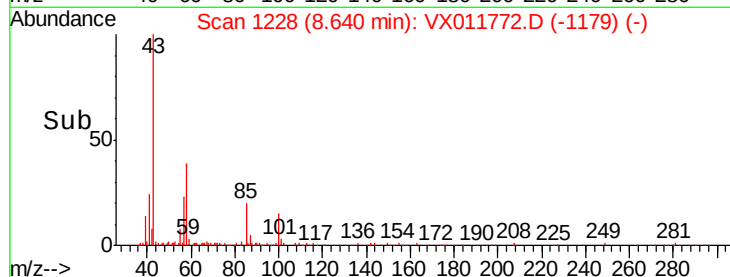
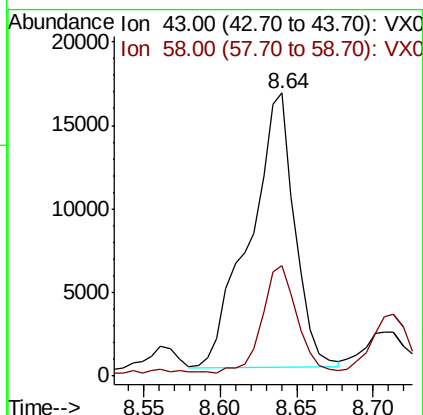
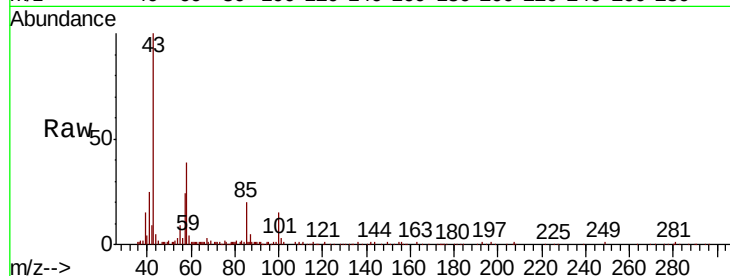




#51  
 4-Methyl-2-Pentanone  
 Concen: 5.979 ug/l  
 RT: 8.64 min Scan# 1228  
 Delta R.T. -0.00 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

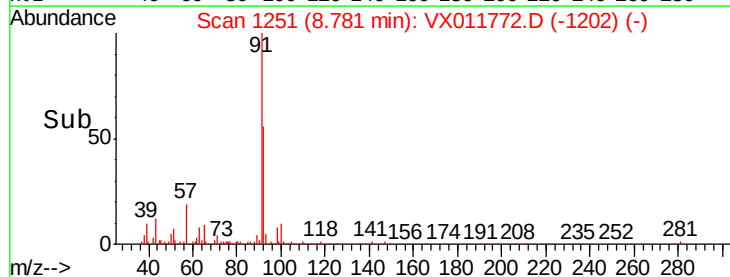
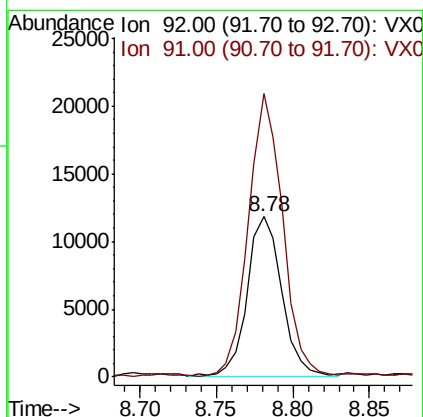
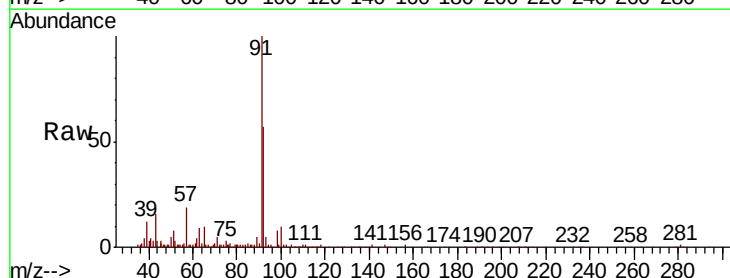
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 390821767.1-VOA

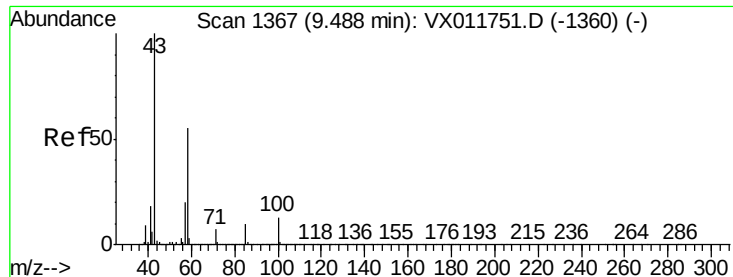
Tgt Ion: 43 Resp: 33416  
 Ion Ratio Lower Upper  
 43 100  
 58 30.9 31.8 47.6#



#52  
 Toluene  
 Concen: 1.862 ug/l  
 RT: 8.78 min Scan# 1251  
 Delta R.T. -0.00 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

Tgt Ion: 92 Resp: 18460  
 Ion Ratio Lower Upper  
 92 100  
 91 178.2 138.6 207.8

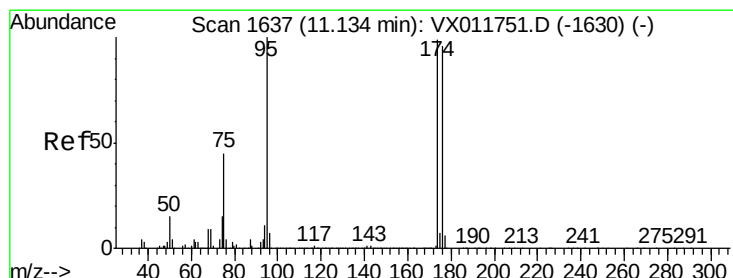
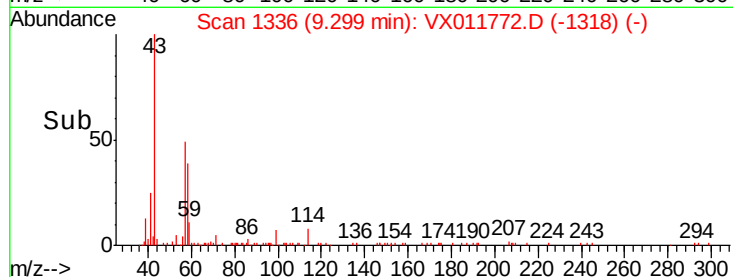
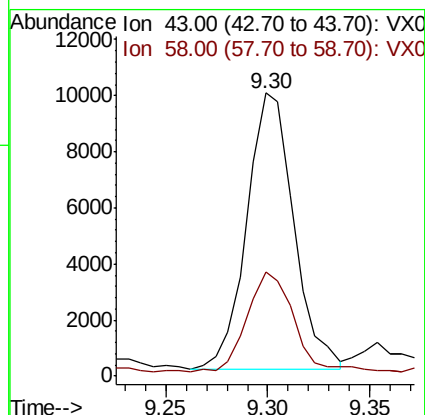
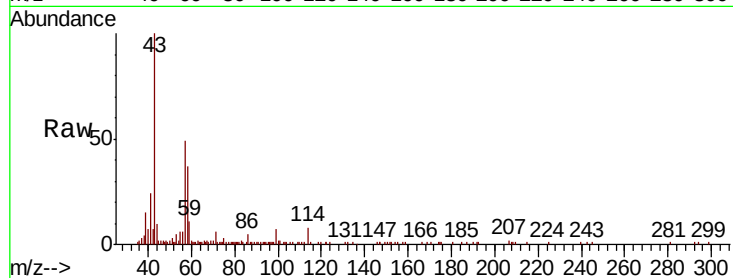




#59  
2-Hexanone  
Concen: 3.675 ug/l  
RT: 9.30 min Scan# 1336  
Delta R.T. -0.19 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

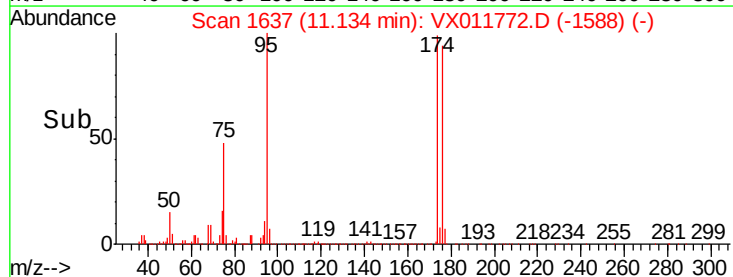
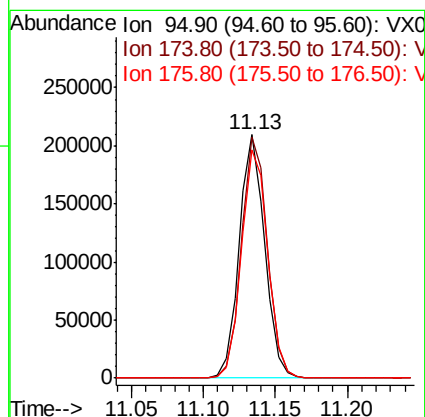
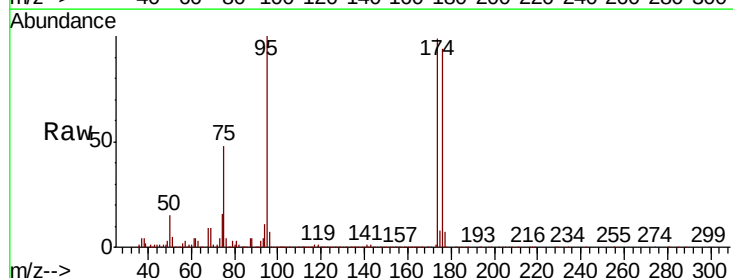
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

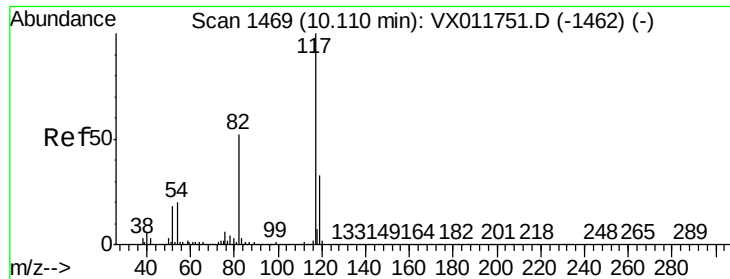
Tgt Ion: 43 Resp: 15765  
Ion Ratio Lower Upper  
43 100  
58 35.9 27.7 83.1



#62  
4-Bromofluorobenzene  
Concen: 45.695 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion: 95 Resp: 257271  
Ion Ratio Lower Upper  
95 100  
174 100.2 0.0 197.4  
176 96.7 0.0 194.4

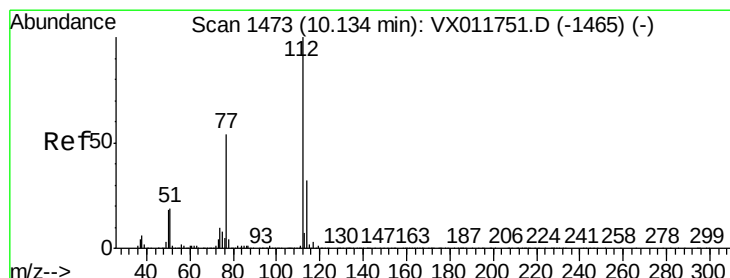
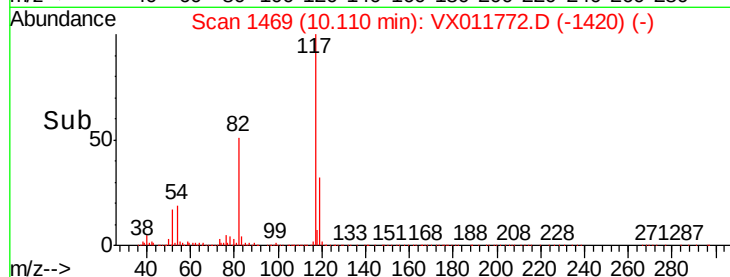
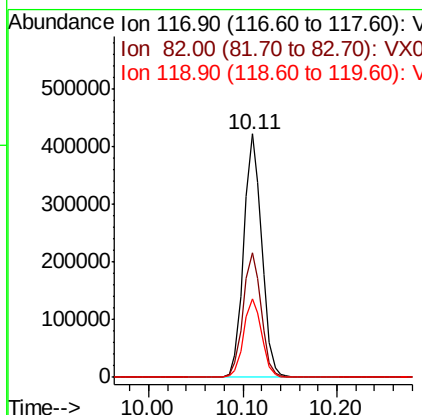
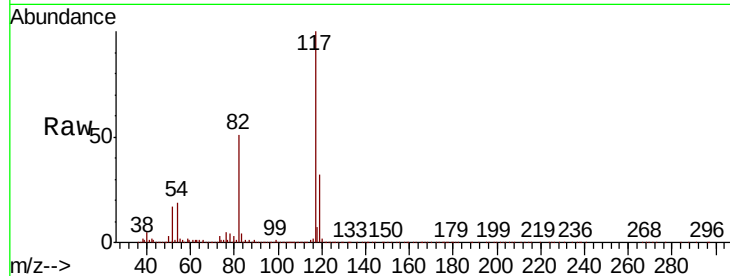




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

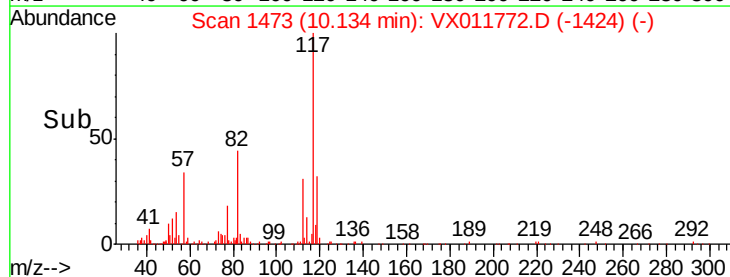
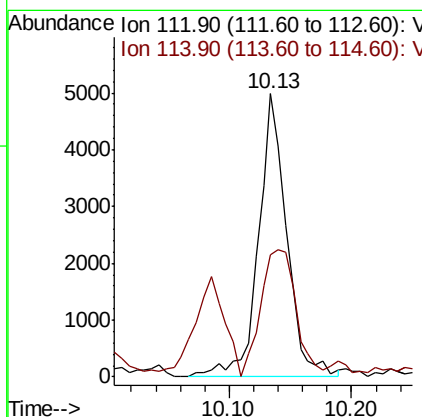
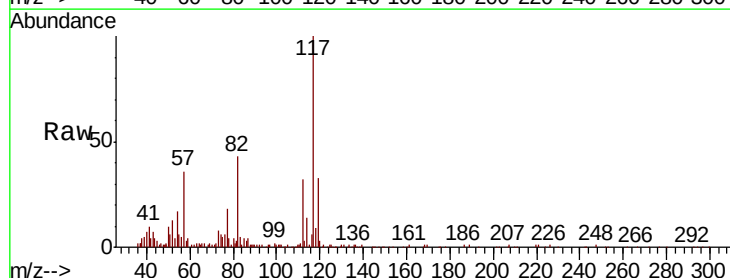
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

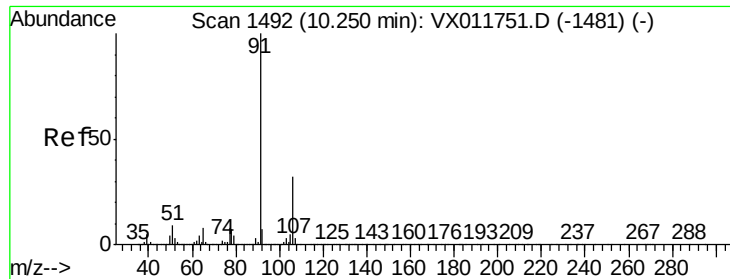
Tgt Ion:117 Resp: 560353  
Ion Ratio Lower Upper  
117 100  
82 51.0 41.7 62.5  
119 32.3 26.2 39.2



#65  
Chlorobenzene  
Concen: 0.736 ug/l  
RT: 10.13 min Scan# 1473  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion:112 Resp: 8054  
Ion Ratio Lower Upper  
112 100  
114 37.8 25.4 38.0

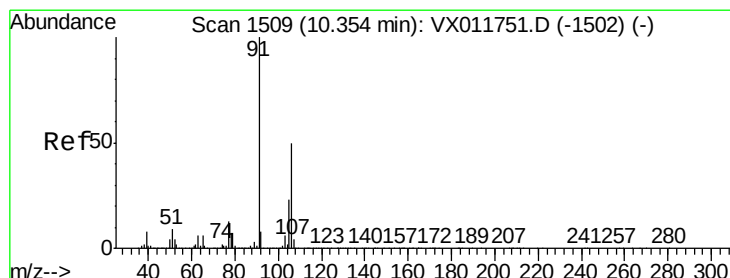
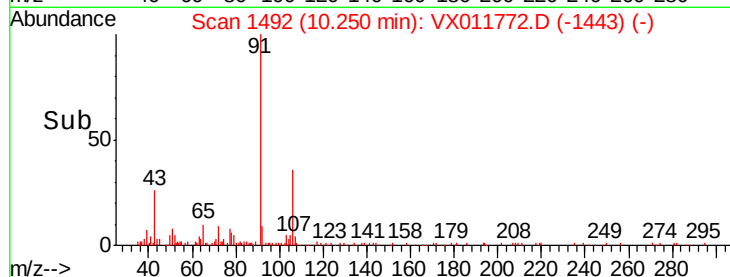
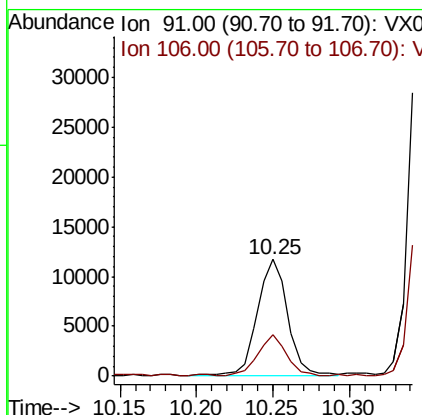
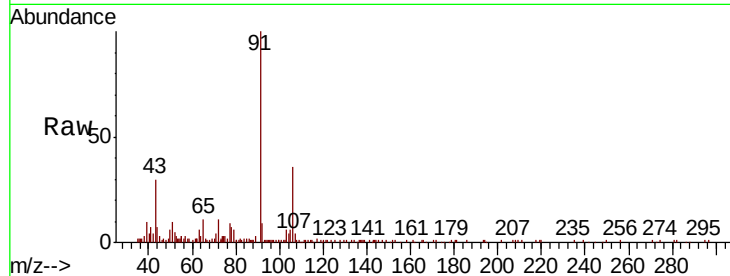




#67  
Ethyl Benzene  
Concen: 0.900 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

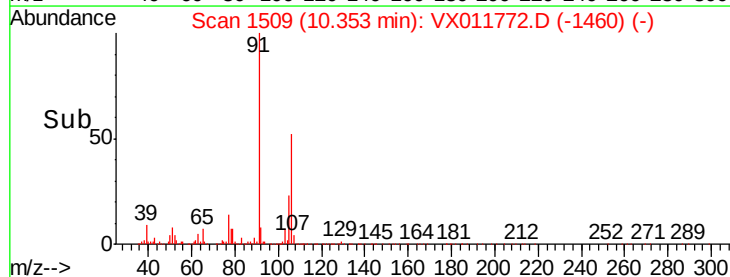
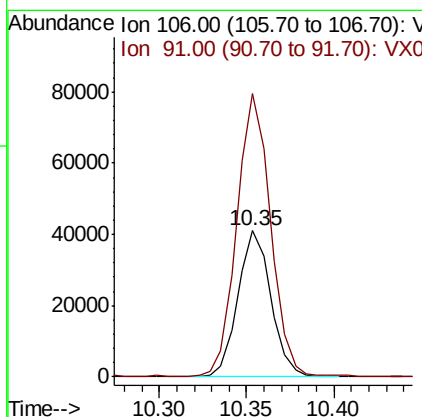
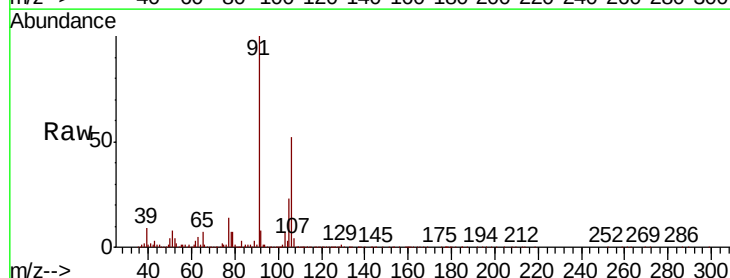
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

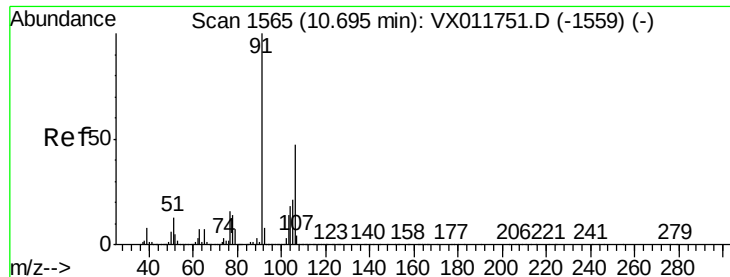
Tgt Ion: 91 Resp: 16459  
Ion Ratio Lower Upper  
91 100  
106 35.6 25.5 38.3



#68  
m/p-Xylenes  
Concen: 7.648 ug/l  
RT: 10.35 min Scan# 1509  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion: 106 Resp: 53916  
Ion Ratio Lower Upper  
106 100  
91 197.7 158.3 237.5

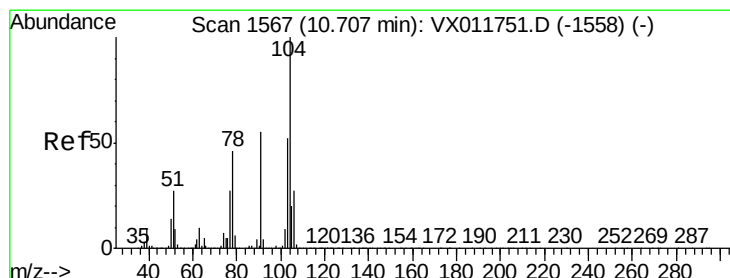
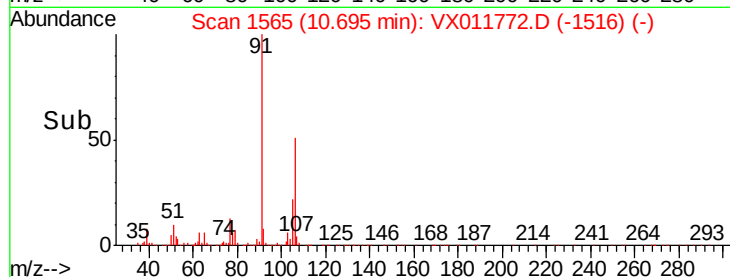
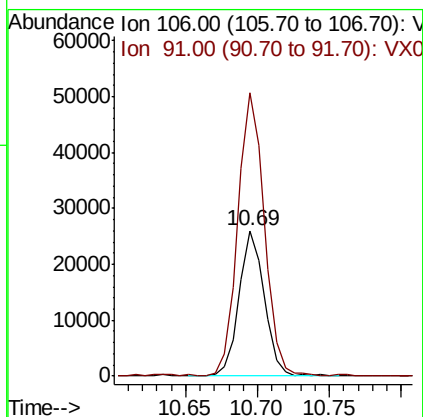
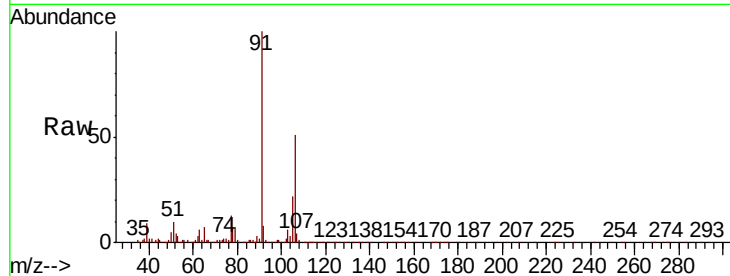




#69  
o-Xylene  
Concen: 4.587 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

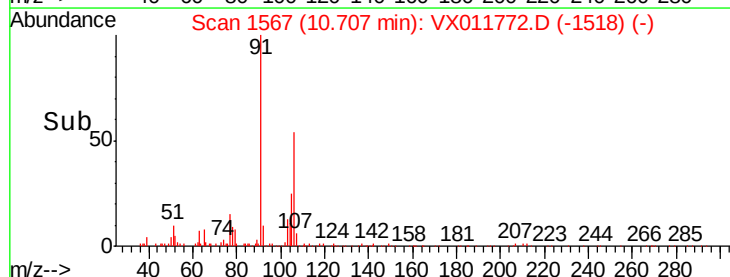
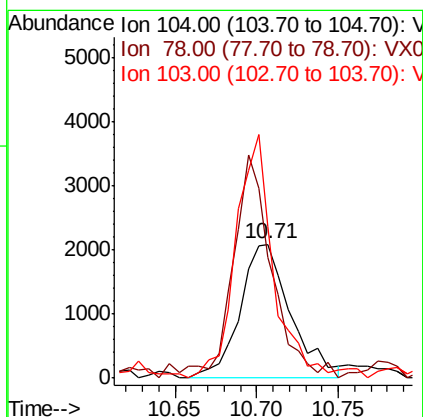
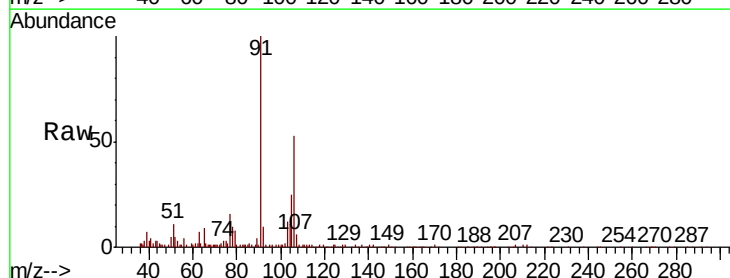
Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

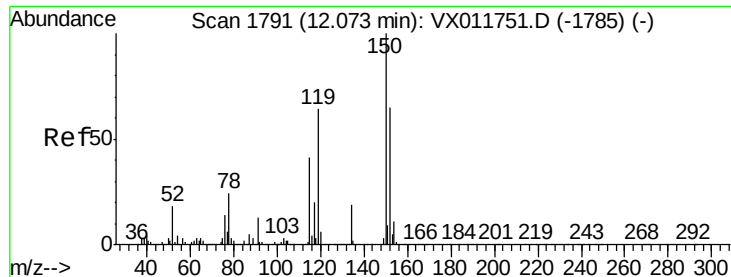
Tgt Ion:106 Resp: 31748  
Ion Ratio Lower Upper  
106 100  
91 203.1 105.0 314.9



#70  
Styrene  
Concen: 0.390 ug/l  
RT: 10.71 min Scan# 1567  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Tgt Ion:104 Resp: 4514  
Ion Ratio Lower Upper  
104 100  
78 130.3 39.2 58.8#  
103 135.2 44.5 66.7#



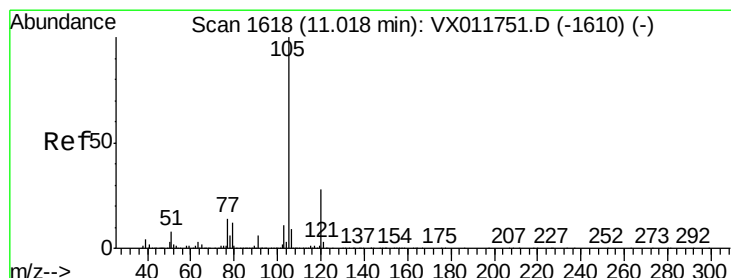
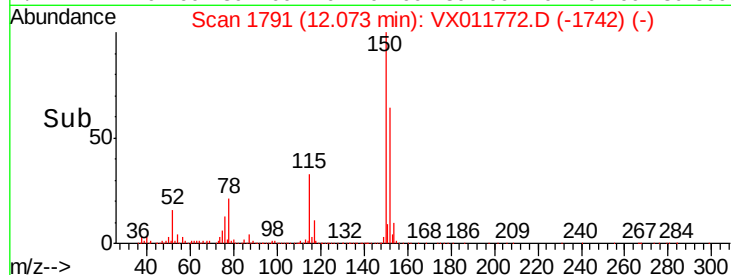
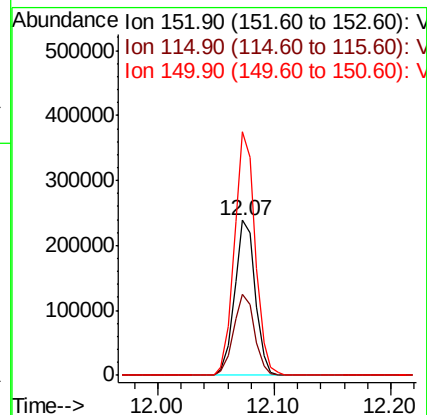
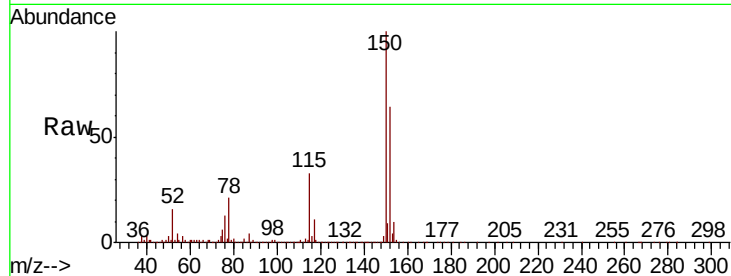


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.00 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
390821767.1-VOA

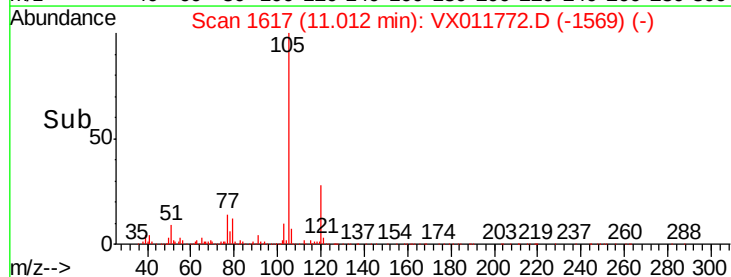
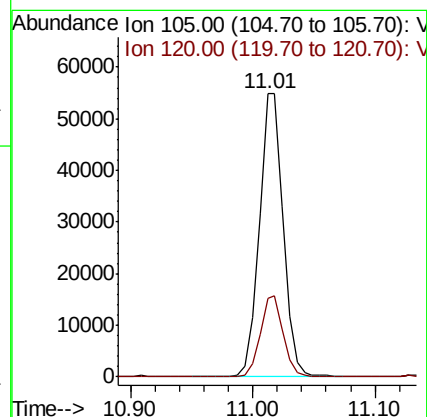
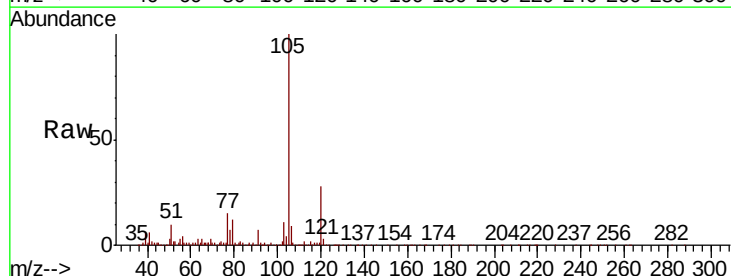
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.9  | 37.3  | 111.8 |
| 150     | 158.5 | 0.0   | 343.0 |

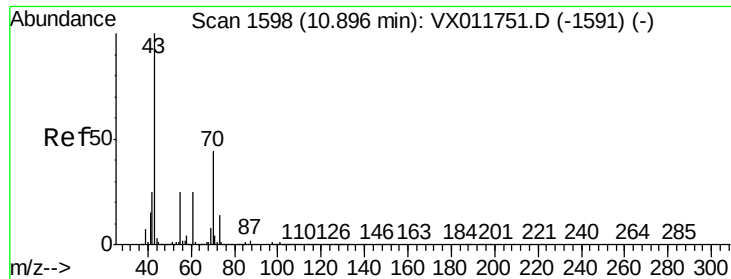


#73

Isopropylbenzene  
Concen: 4.254 ug/l  
RT: 11.01 min Scan# 1617  
Delta R.T. -0.01 min  
Lab File: VX011772.D  
Acq: 22 Aug 2019 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.5  | 13.9  | 41.7  |





#74

N-amyI acetate

Concen: 1.001 ug/l

RT: 10.94 min Scan# 1606

Delta R.T. 0.05 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

390821767.1-VOA

Tgt Ion: 43 Resp: 6848

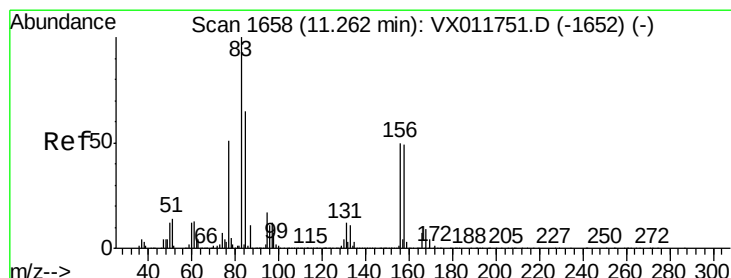
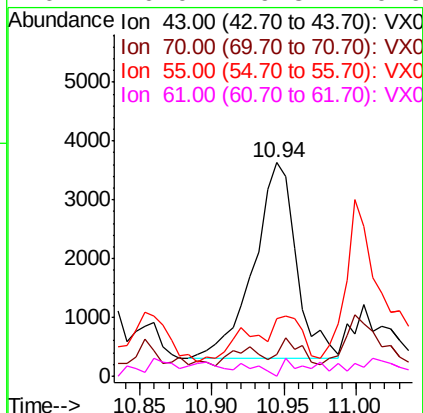
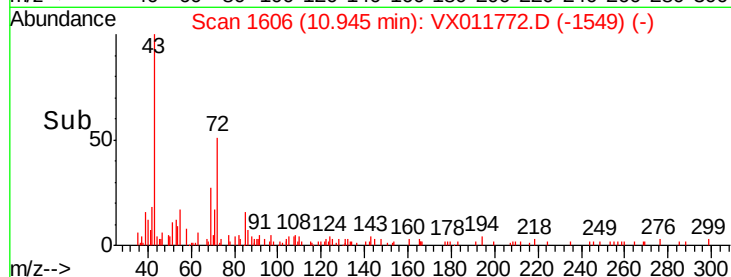
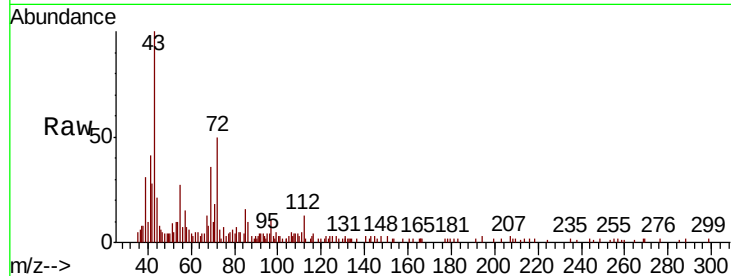
Ion Ratio Lower Upper

43 100

70 6.7 34.8 52.2#

55 14.1 19.5 29.3#

61 0.0 19.8 29.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.379 ug/l

RT: 11.35 min Scan# 1673

Delta R.T. 0.09 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

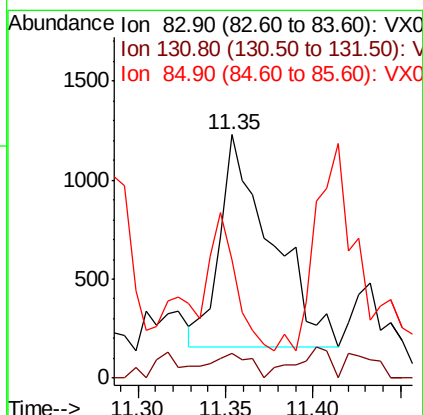
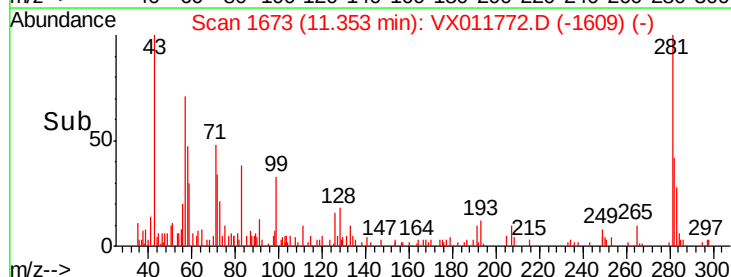
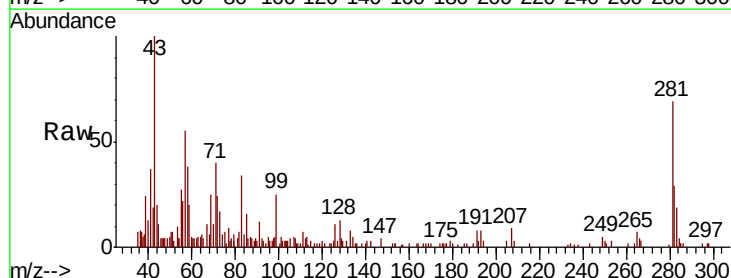
Tgt Ion: 83 Resp: 2217

Ion Ratio Lower Upper

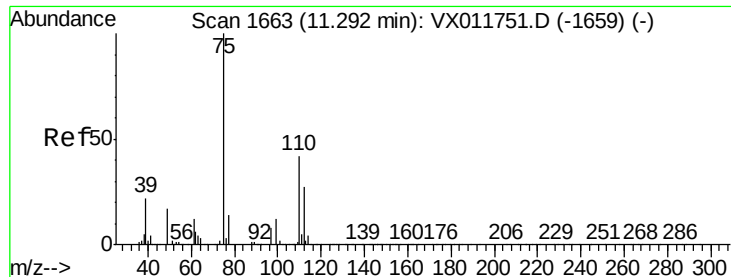
83 100

131 8.1 6.1 18.3

85 47.2 32.4 97.0







#76

1,2,3-Trichloropropane

Concen: 23.647 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

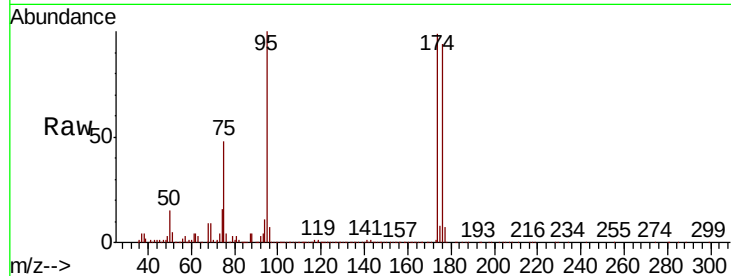
390821767.1-VOA

Tgt Ion: 75 Resp: 121678

Ion Ratio Lower Upper

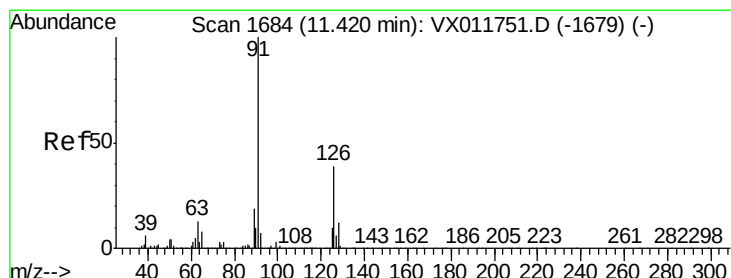
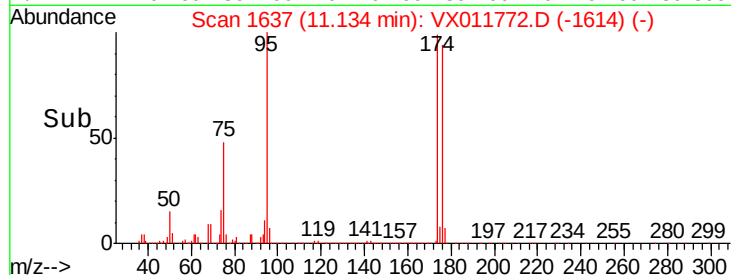
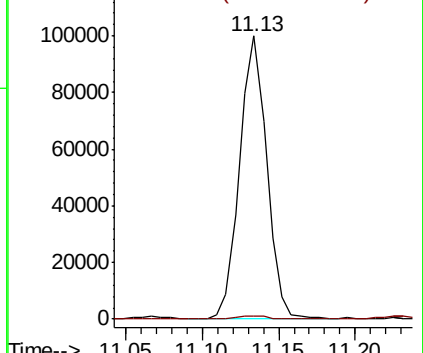
75 100

77 1.2 21.1 63.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#79

2-Chlorotoluene

Concen: 0.397 ug/l

RT: 11.43 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VX011772.D

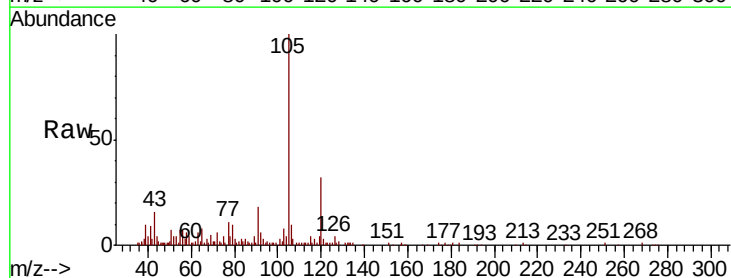
Acq: 22 Aug 2019 19:16

Tgt Ion: 91 Resp: 4666

Ion Ratio Lower Upper

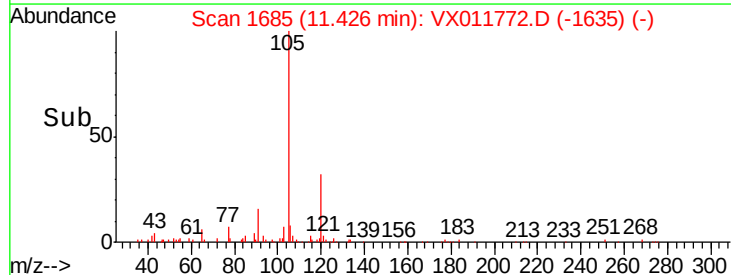
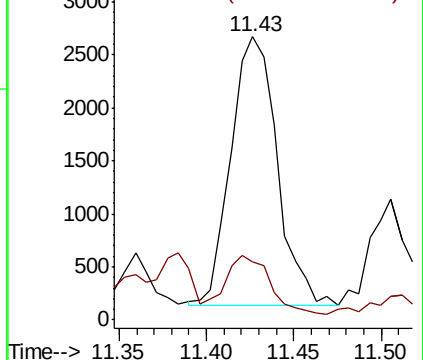
91 100

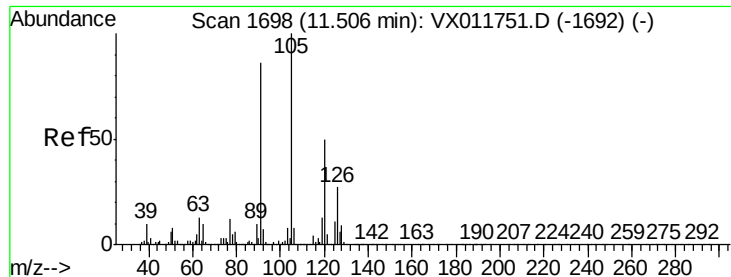
126 20.3 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.751 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

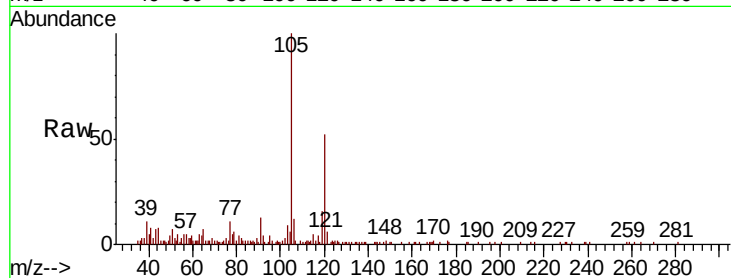
390821767.1-VOA

Tgt Ion: 105 Resp: 11071

Ion Ratio Lower Upper

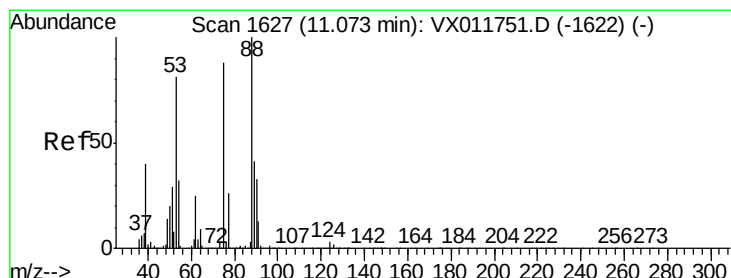
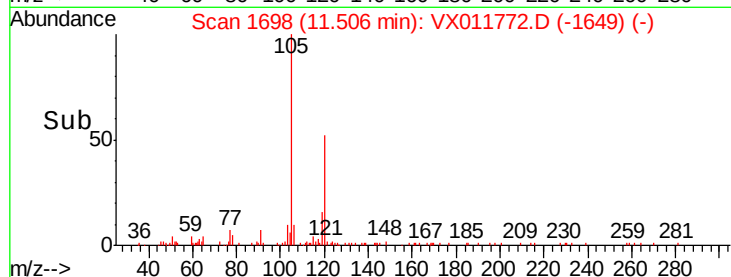
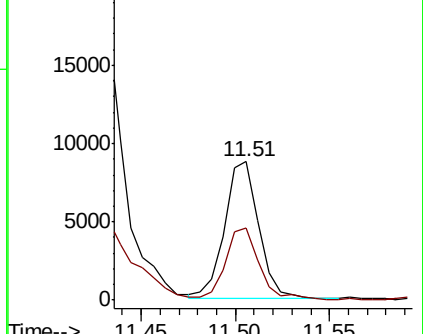
105 100

120 52.0 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 71.314 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

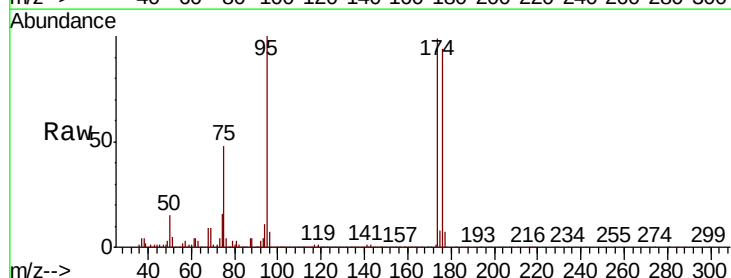
Tgt Ion: 75 Resp: 121678

Ion Ratio Lower Upper

75 100

53 0.2 77.1 115.7#

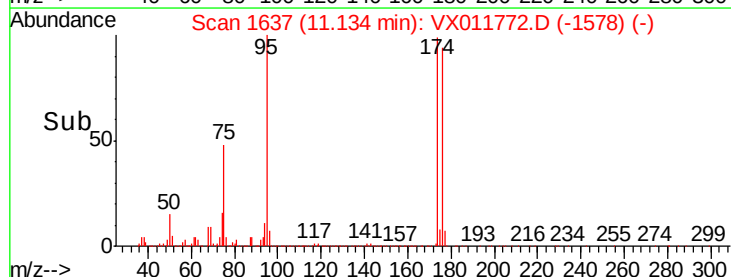
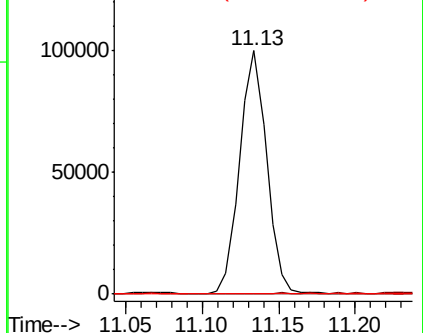
89 0.1 38.5 57.7#

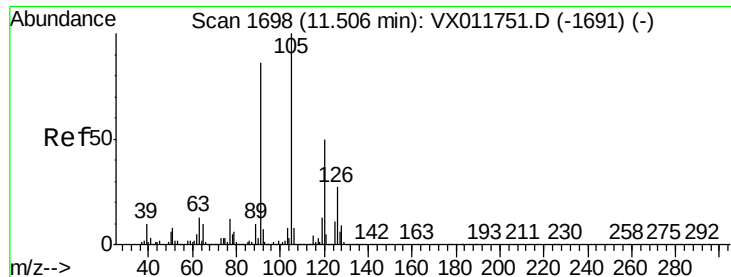


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#82

4-Chlorotoluene

Concen: 0.350 ug/l

RT: 11.43 min Scan# 1685

Delta R.T. -0.08 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

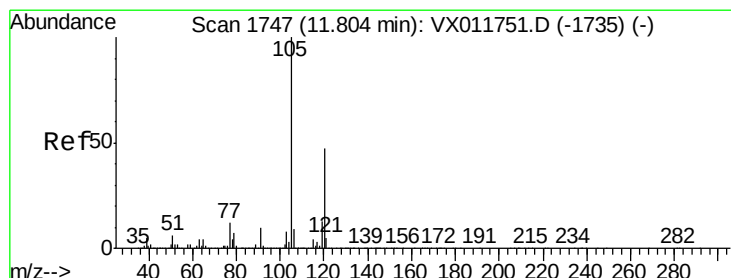
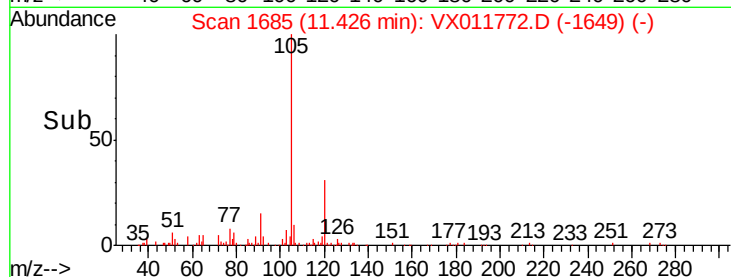
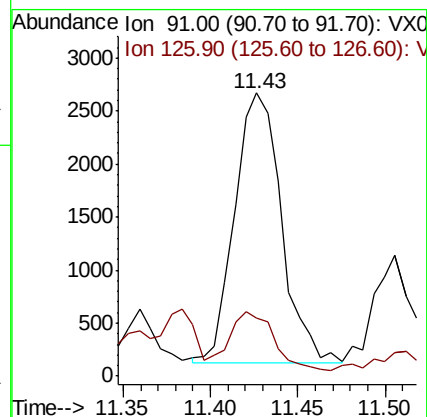
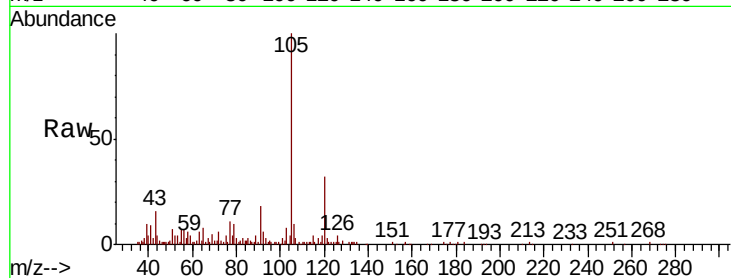
390821767.1-VOA

Tgt Ion: 91 Resp: 4737

Ion Ratio Lower Upper

91 100

126 19.9 16.2 48.6



#84

1,2,4-Trimethylbenzene

Concen: 2.703 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX011772.D

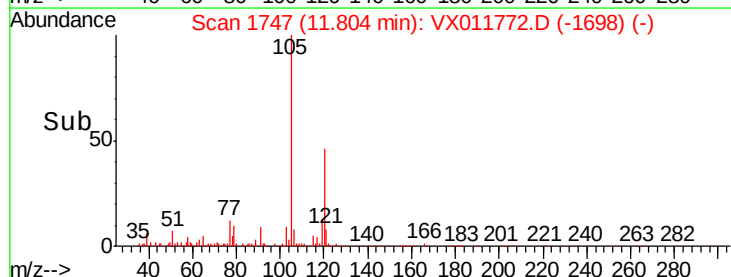
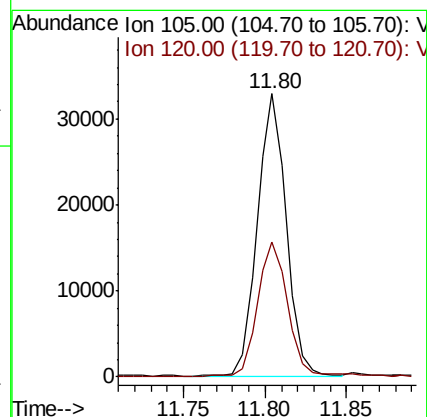
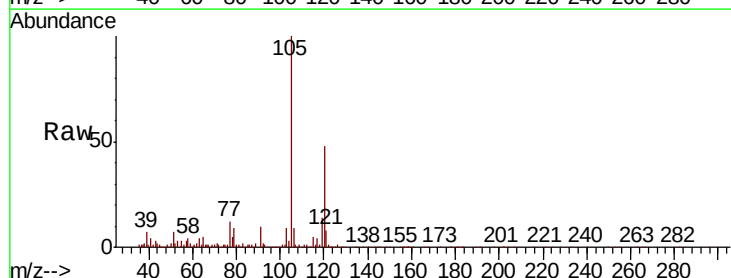
Acq: 22 Aug 2019 19:16

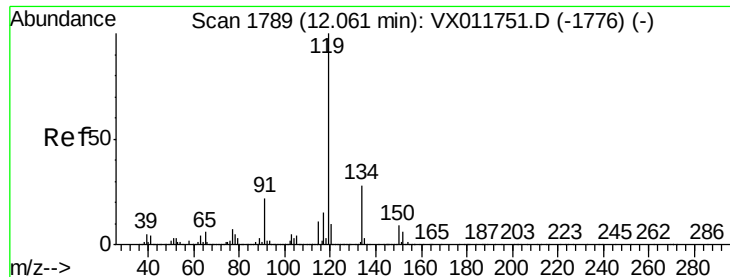
Tgt Ion: 105 Resp: 40252

Ion Ratio Lower Upper

105 100

120 51.7 23.7 71.1

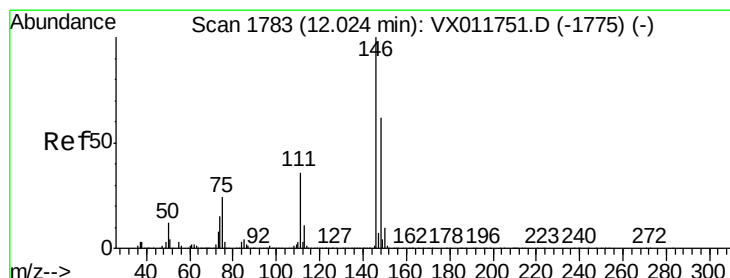
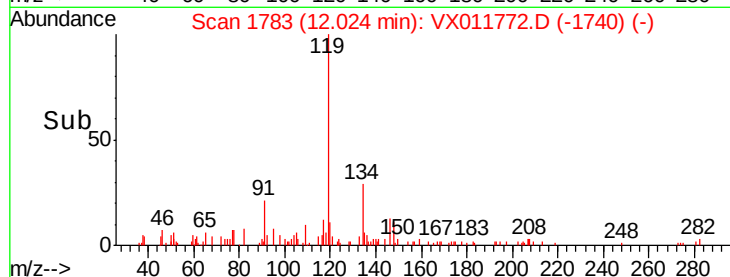
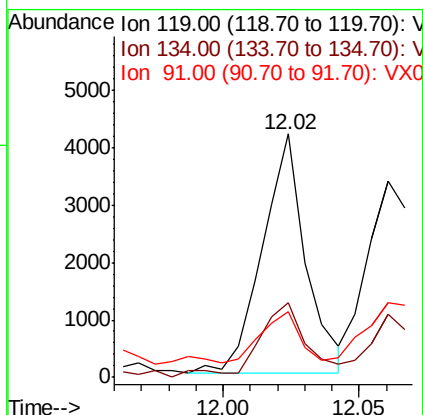
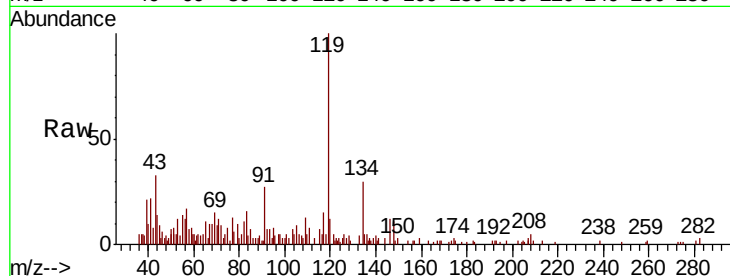




#86  
 p-Isopropyltoluene  
 Concen: 0.290 ug/l  
 RT: 12.02 min Scan# 1783  
 Delta R.T. -0.04 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

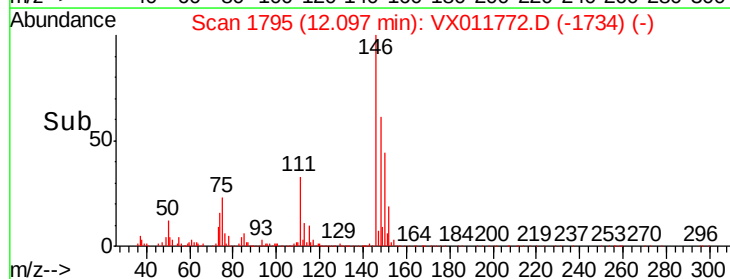
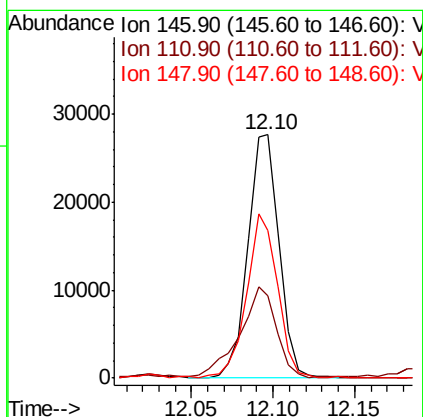
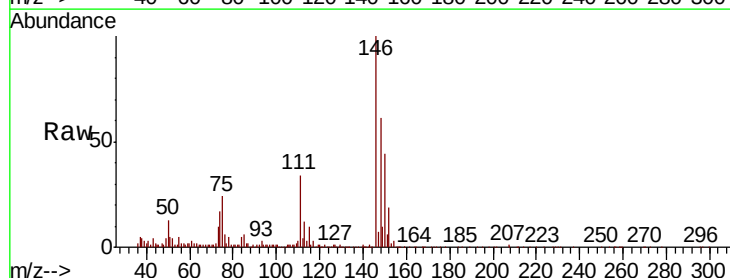
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 390821767.1-VOA

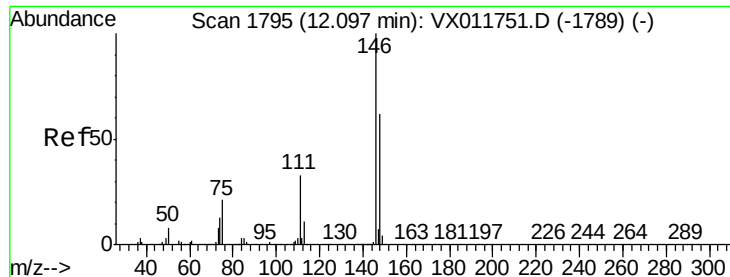
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 34.7  | 13.7  | 41.0  |
| 91      | 19.4  | 11.1  | 33.3  |



#87  
 1,3-Dichlorobenzene  
 Concen: 4.115 ug/l  
 RT: 12.10 min Scan# 1795  
 Delta R.T. 0.07 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.1  | 18.1  | 54.4  |
| 148     | 66.2  | 31.6  | 94.7  |

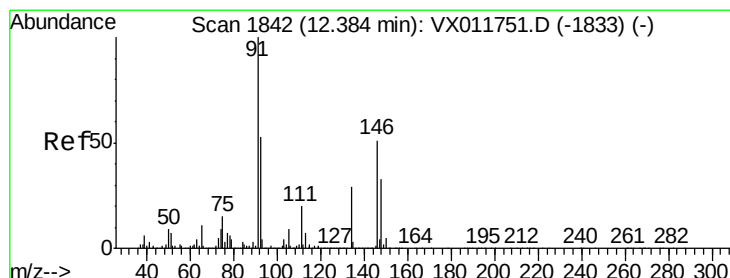
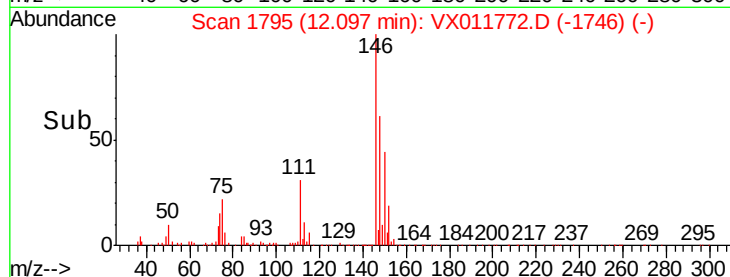
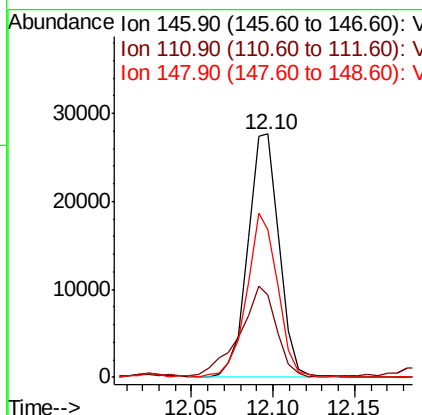
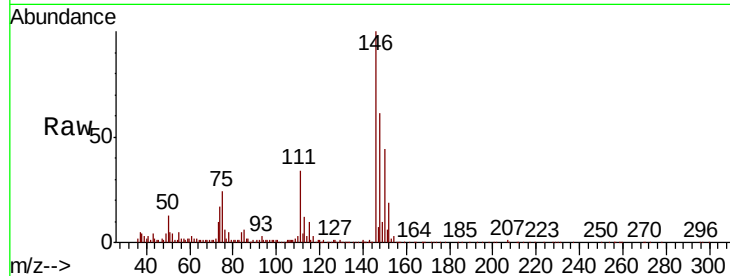




#88  
 1,4-Dichlorobenzene  
 Concen: 4.067 ug/l  
 RT: 12.10 min Scan# 1795  
 Delta R.T. -0.00 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

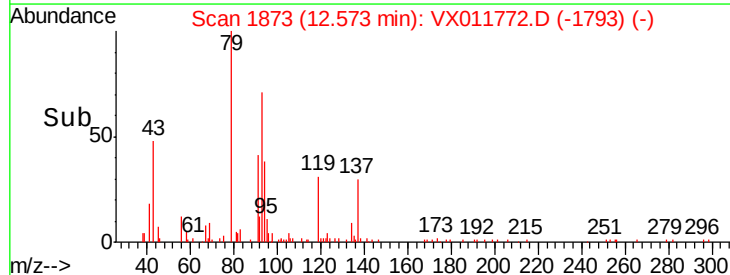
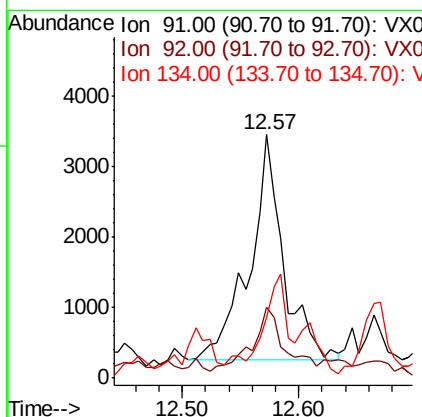
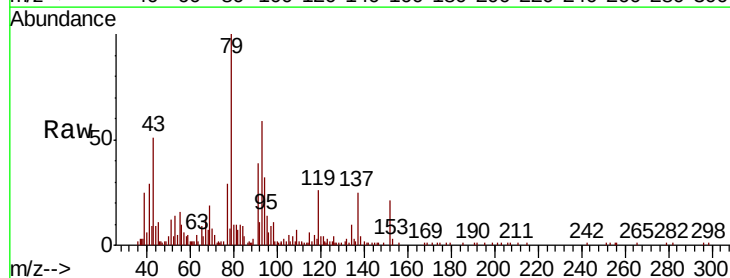
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 390821767.1-VOA

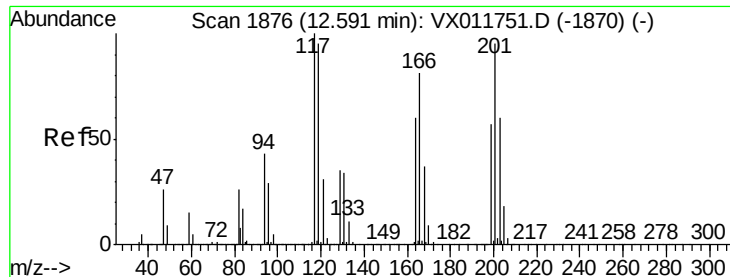
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 36920 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 43.1  | 17.8  | 53.4  |
| 148      | 66.2  | 31.9  | 95.7  |



#89  
 n-Butylbenzene  
 Concen: 0.485 ug/l  
 RT: 12.57 min Scan# 1873  
 Delta R.T. 0.19 min  
 Lab File: VX011772.D  
 Acq: 22 Aug 2019 19:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 6426  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 27.1  | 26.7  | 80.0  |
| 134      | 34.2  | 14.6  | 43.8  |





#90

Hexachloroethane

Concen: 0.414 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

Instrument :

MSVOA\_X

ClientSampleId :

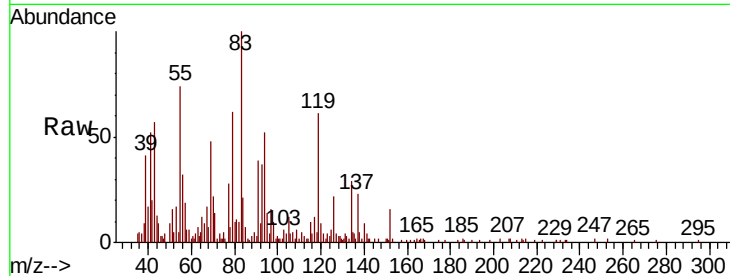
390821767.1-VOA

Tgt Ion:117 Resp: 1030

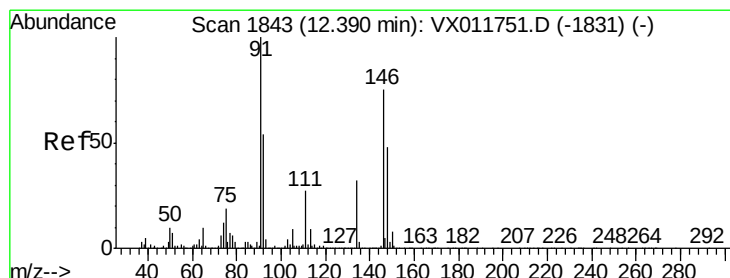
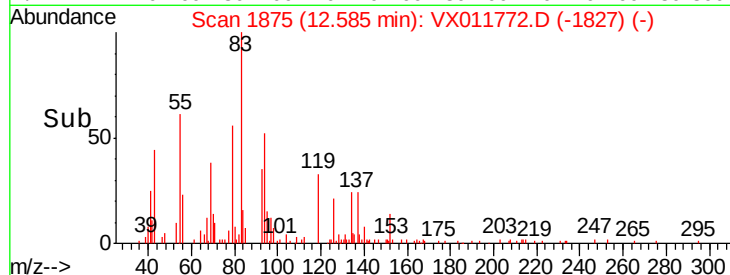
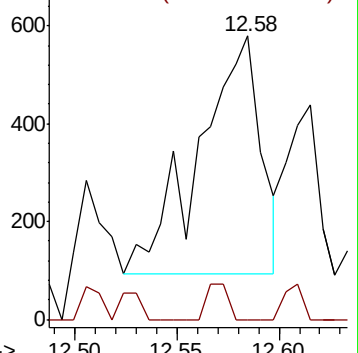
Ion Ratio Lower Upper

117 100

201 5.0 49.6 149.0#



Abundance Ion 116.80 (116.50 to 117.50): V



#91

1,2-Dichlorobenzene

Concen: 0.253 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

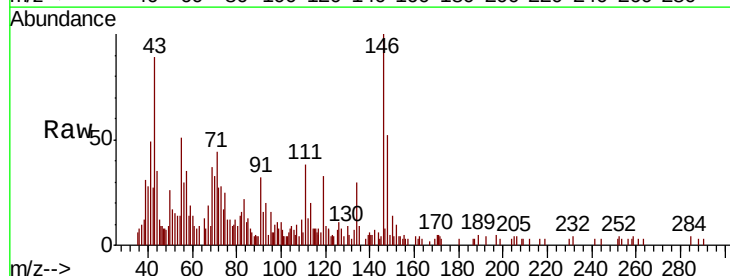
Tgt Ion:146 Resp: 2286

Ion Ratio Lower Upper

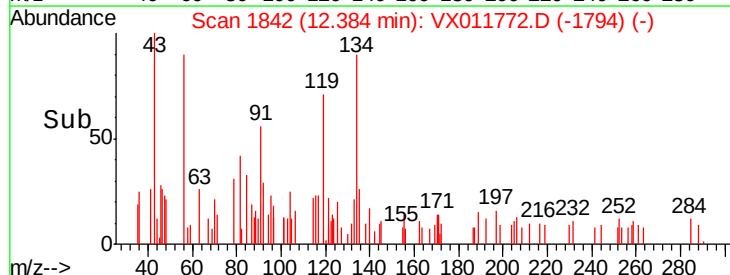
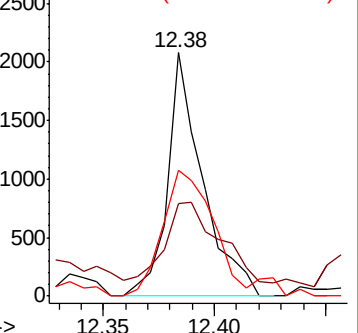
146 100

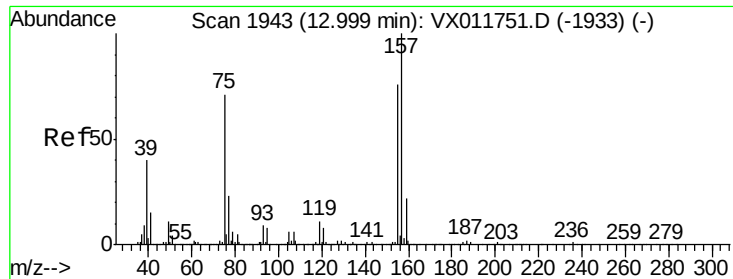
111 51.0 18.8 56.4

148 79.4 31.6 95.0



Abundance Ion 145.90 (145.60 to 146.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.260 ug/l

RT: 13.01 min Scan# 1944

Delta R.T. 0.01 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

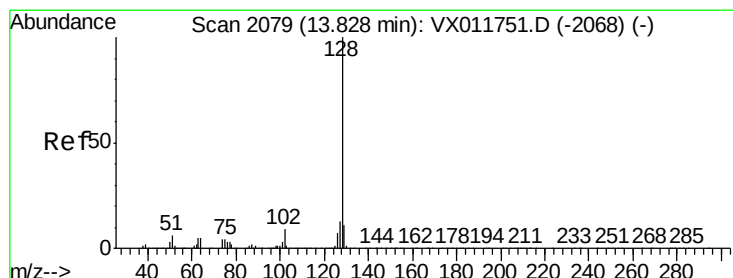
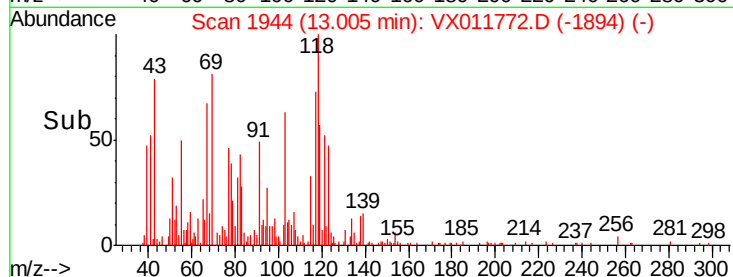
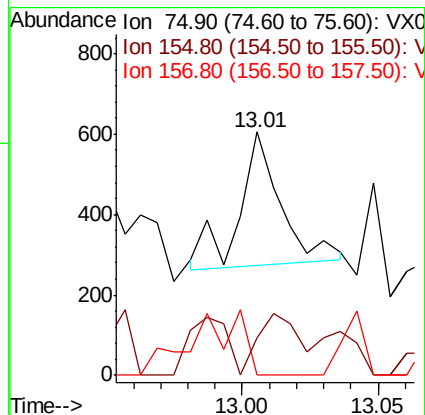
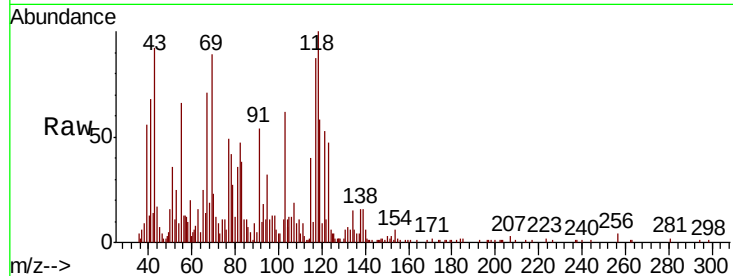
Instrument :

MSVOA\_X

ClientSampleId :

390821767.1-VOA

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 354    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 44.9  | 52.6  | 157.9# |
| 157      | 58.8  | 68.3  | 204.9# |



#95

Naphthalene

Concen: 0.830 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VX011772.D

Acq: 22 Aug 2019 19:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 15208 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 15.9  | 10.4  | 15.6# |
| 129      | 15.2  | 8.7   | 13.1# |

