

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\  
 Data File : VX009425.D  
 Acq On : 09 May 2019 14:14  
 Operator : JC/SP  
 Sample : K2748-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 10 07:06:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 188973   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 301555   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 272799   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 123273   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 122652   | 47.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.08%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 91218    | 48.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.24%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 383749   | 50.14 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.28% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 132245   | 47.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.10%  |          |

| Target Compounds            | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|-----------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane            | 1.33  | 50   | 2844     | 1.196     | ug/l # | 70     |
| 6) Chloroethane             | 1.96  | 64   | 1109     | 0.745     | ug/l # | 43     |
| 10) Methyl Iodide           | 2.51  | 142  | 142      | 4.657     | ug/l # | 42     |
| 11) Tert butyl alcohol      | 3.04  | 59   | 287115   | 480.818   | ug/l   | 100    |
| 13) Acrolein                | 2.26  | 56   | 199      | 0.368     | ug/l # | 1      |
| 14) Allyl chloride          | 2.84  | 41   | 20667    | 4.783     | ug/l # | 74     |
| 15) Acrylonitrile           | 3.20  | 53   | 4885     | 3.346     | ug/l # | 30     |
| 16) Acetone                 | 2.44  | 43   | 6898     | 4.980     | ug/l   | 100    |
| 17) Carbon Disulfide        | 2.57  | 76   | 2909     | 0.584     | ug/l # | 95     |
| 18) Methyl Acetate          | 2.84  | 43   | 45344    | 13.764    | ug/l # | 56     |
| 19) Methyl tert-butyl Ether | 3.20  | 73   | 351356   | 51.029    | ug/l   | 96     |
| 20) Methylene Chloride      | 2.85  | 84   | 628      | 0.280     | ug/l # | 10     |
| 22) Diisopropyl ether       | 3.85  | 45   | 17151    | 2.064     | ug/l # | 78     |
| 23) Vinyl Acetate           | 3.86  | 43   | 7965     | 1.119     | ug/l # | 76     |
| 25) 2-Butanone              | 4.68  | 43   | 1442     | 0.670     | ug/l # | 87     |
| 26) 2,2-Dichloropropane     | 4.70  | 77   | 903      | 0.296     | ug/l # | 53     |
| 28) Bromochloromethane      | 5.03  | 49   | 40       | Below Cal | #      | 20     |
| 31) Cyclohexane             | 5.58  | 56   | 32504    | 8.522     | ug/l   | 97     |
| 36) 1,1-Dichloropropene     | 5.66  | 75   | 14656    | 5.230     | ug/l # | 50     |
| 38) Carbon Tetrachloride    | 5.67  | 117  | 17738    | 6.967     | ug/l # | 15     |
| 39) Methylcyclohexane       | 7.46  | 83   | 20184    | 5.865     | ug/l   | 97     |
| 40) Benzene                 | 6.14  | 78   | 524608   | 60.488    | ug/l   | 99     |
| 42) 1,2-Dichloroethane      | 6.15  | 62   | 4843     | 1.557     | ug/l # | 75     |
| 43) Isopropyl Acetate       | 6.42  | 43   | 2116     | 0.339     | ug/l # | 51     |
| 48) Methyl methacrylate     | 7.74  | 41   | 1941     | 0.626     | ug/l # | 18     |
| 49) 1,4-Dioxane             | 7.96  | 88   | 21       | 0.334     | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone    | 8.64  | 43   | 842      | 0.206     | ug/l # | 34     |
| 52) Toluene                 | 8.79  | 92   | 341717   | 64.817    | ug/l   | 100    |
| 55) 1,1,2-Trichloroethane   | 9.16  | 97   | 2250     | 1.046     | ug/l # | 18     |
| 56) Ethyl methacrylate      | 9.16  | 69   | 790      | 0.206     | ug/l   | 89     |
| 59) 2-Hexanone              | 9.30  | 43   | 1343     | 0.419     | ug/l   | 97     |
| 67) Ethyl Benzene           | 10.25 | 91   | 1552211  | 154.551   | ug/l   | 100    |
| 68) m/p-Xylenes             | 10.36 | 106  | 521262   | 142.027   | ug/l   | 99     |
| 69) o-Xylene                | 10.69 | 106  | 240510   | 66.418    | ug/l   | 100    |

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Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 10 07:06:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

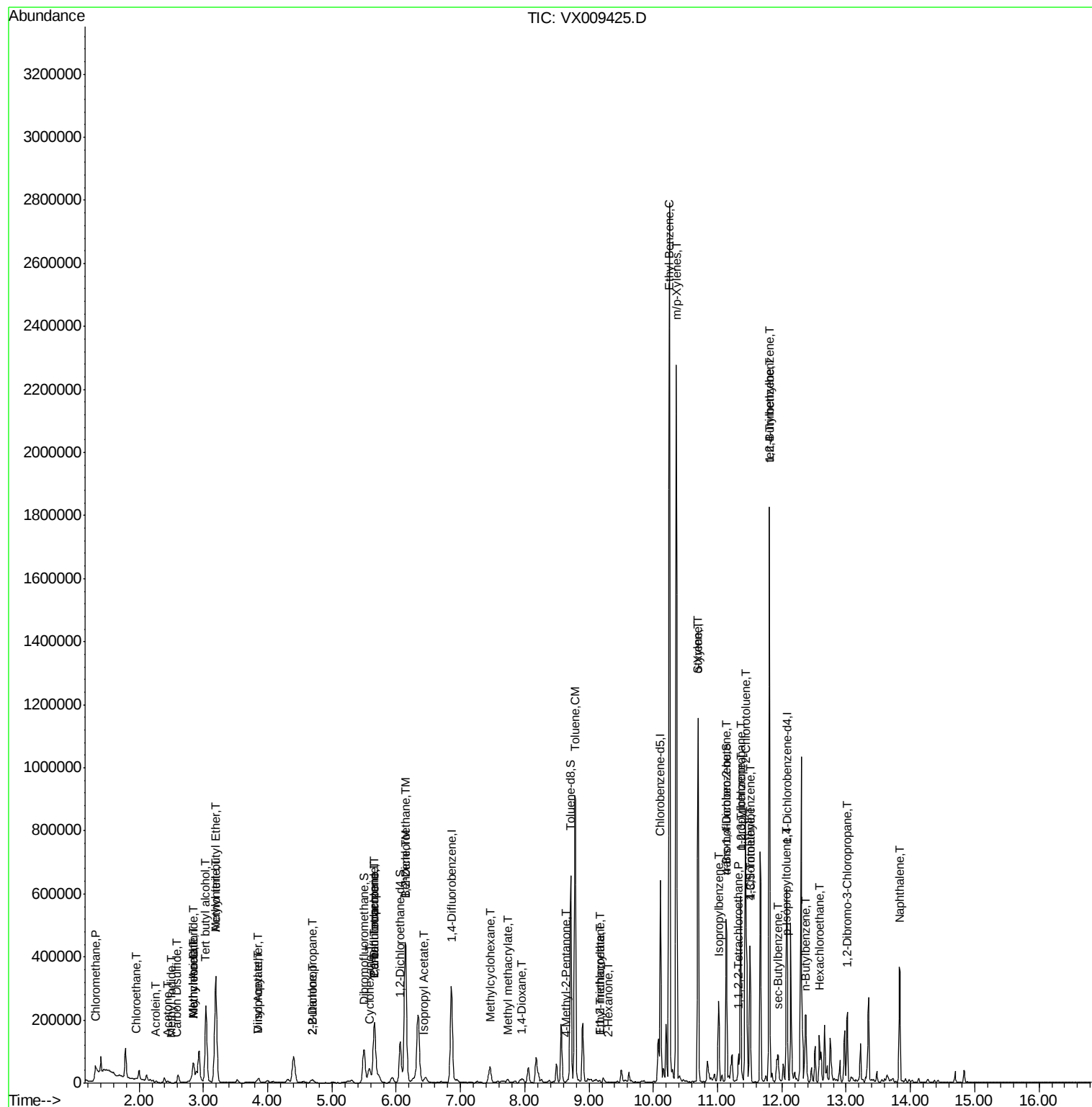
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |     |
|--------------------------------|-------|------|----------|--------|-------|----------|-----|
| 70) Styrene                    | 10.69 | 104  | 12011    | 1.908  | ug/l  | #        | 1   |
| 73) Isopropylbenzene           | 11.02 | 105  | 126699   | 14.134 | ug/l  |          | 99  |
| 75) 1,1,2,2-Tetrachloroethane  | 11.32 | 83   | 5803     | 1.737  | ug/l  | #        | 25  |
| 76) 1,2,3-Trichloropropane     | 11.36 | 75   | 2278     | 0.797  | ug/l  | #        | 1   |
| 78) n-propylbenzene            | 11.36 | 91   | 343762   | 33.578 | ug/l  |          | 100 |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 70813    | 11.211 | ug/l  | #        | 42  |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 176330   | 23.361 | ug/l  |          | 99  |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 66738    | 59.716 | ug/l  | #        | 11  |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 18057    | 2.531  | ug/l  | #        | 46  |
| 83) tert-Butylbenzene          | 11.80 | 119  | 94139    | 12.821 | ug/l  | #        | 64  |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 749156   | 98.883 | ug/l  |          | 98  |
| 85) sec-Butylbenzene           | 11.94 | 105  | 23790    | 2.733  | ug/l  |          | 95  |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 9206     | 1.176  | ug/l  |          | 91  |
| 89) n-Butylbenzene             | 12.38 | 91   | 33919    | 4.795  | ug/l  | #        | 32  |
| 90) Hexachloroethane           | 12.58 | 117  | 9053     | 6.790  | ug/l  | #        | 7   |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 723      | 0.964  | ug/l  | #        | 2   |
| 95) Naphthalene                | 13.83 | 128  | 221187   | 24.609 | ug/l  |          | 99  |

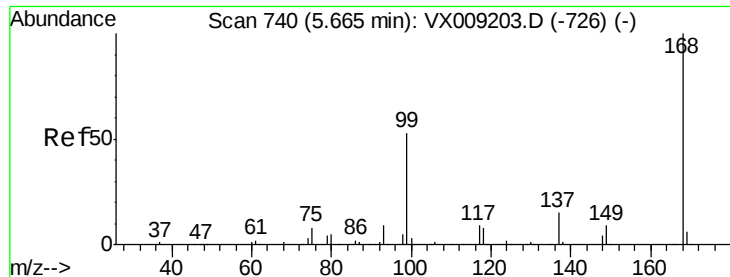
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: May 10 07:06:38 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

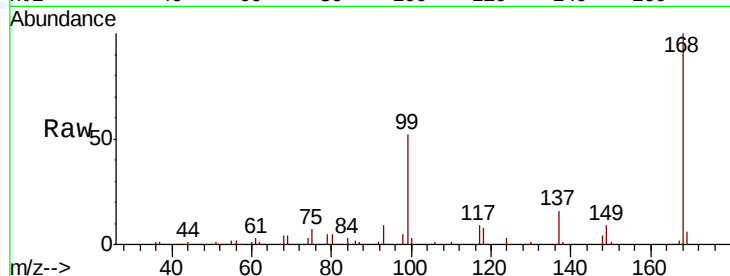
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 188973

Ion Ratio Lower Upper

168 100

99 52.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

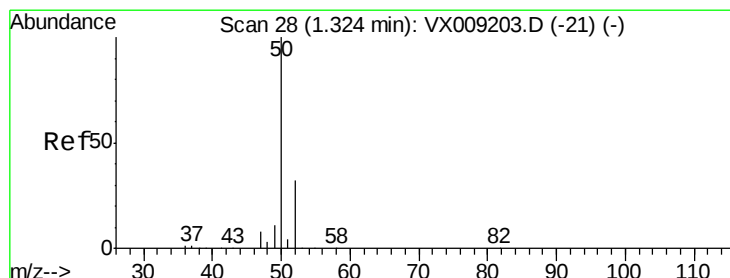
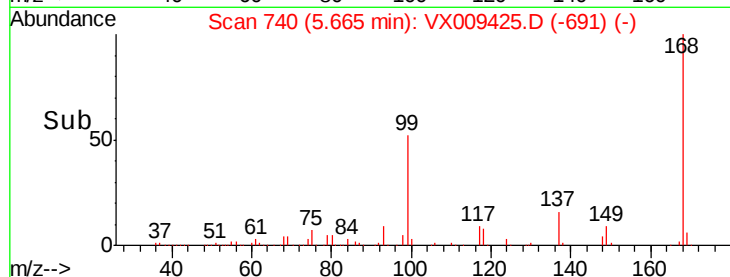
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.196 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009425.D

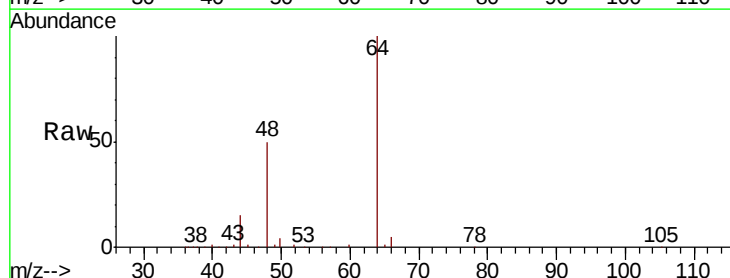
Acq: 09 May 2019 14:14

Tgt Ion: 50 Resp: 2844

Ion Ratio Lower Upper

50 100

52 15.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1200

1000

800

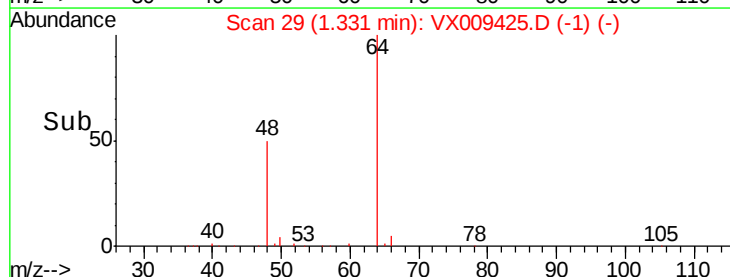
600

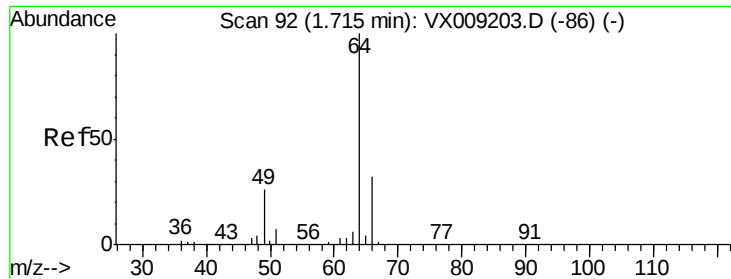
400

200

0

Time--> 1.25 1.30 1.35 1.40





#6

Chloroethane

Concen: 0.745 ug/l

RT: 1.96 min Scan# 132

Delta R.T. 0.24 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

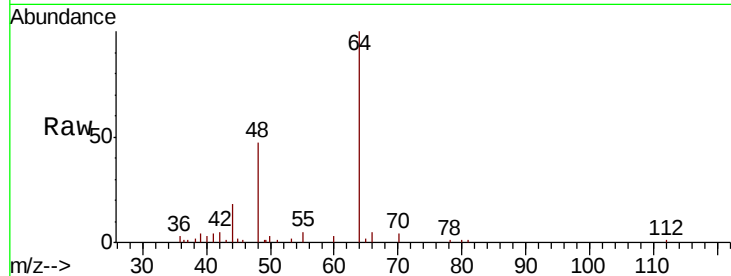
ClientSampleId :

Tot Ion: 64 Resp: 1109

Ion Ratio Lower Upper

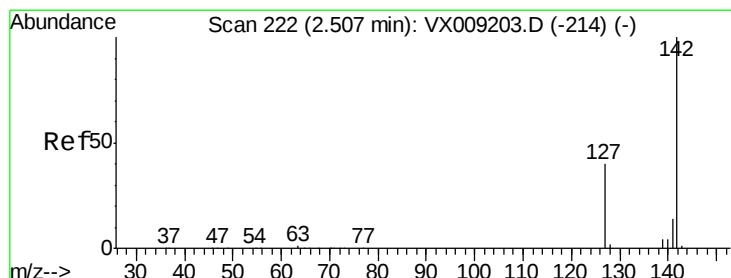
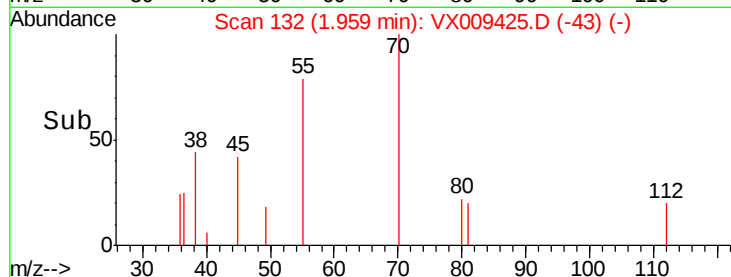
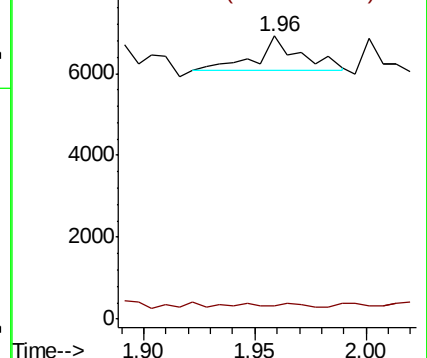
64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.657 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

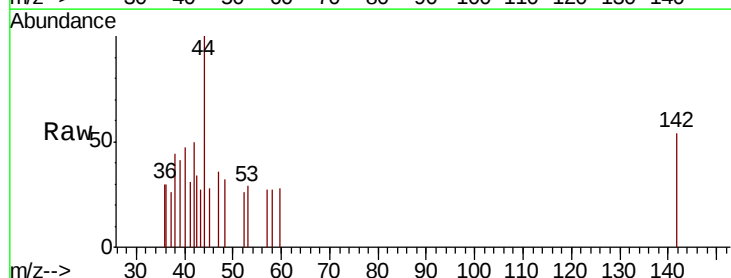
Tgt Ion: 142 Resp: 142

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

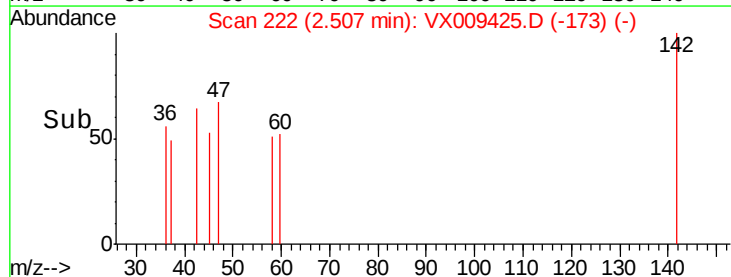
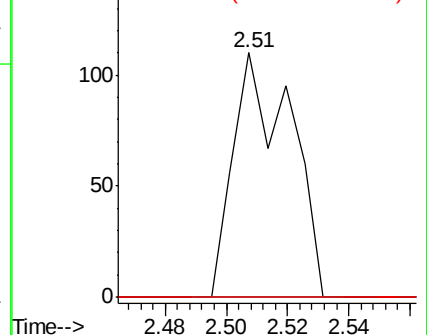
141 0.0 11.5 17.3#

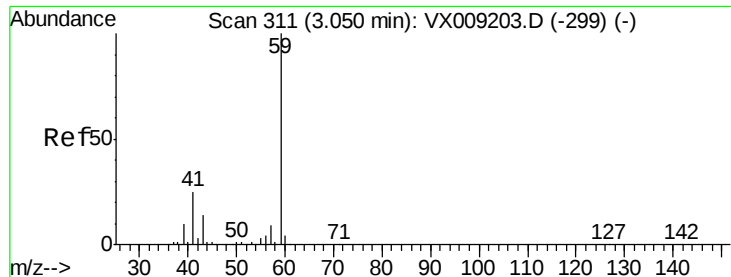


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

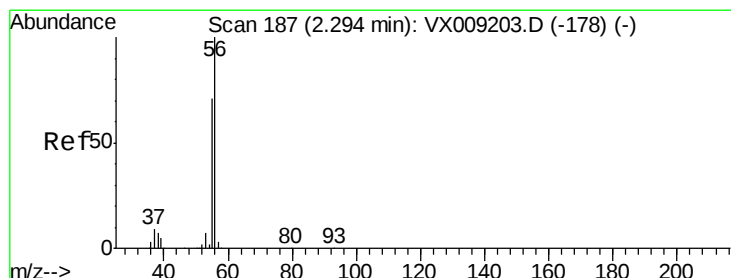
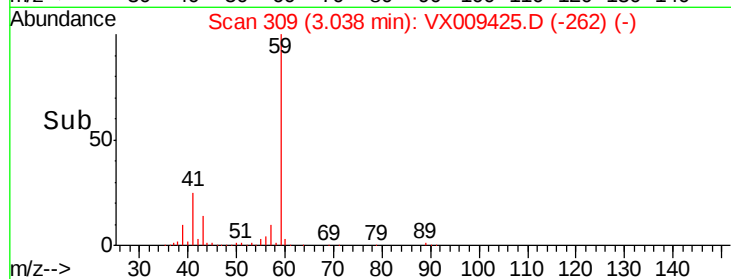
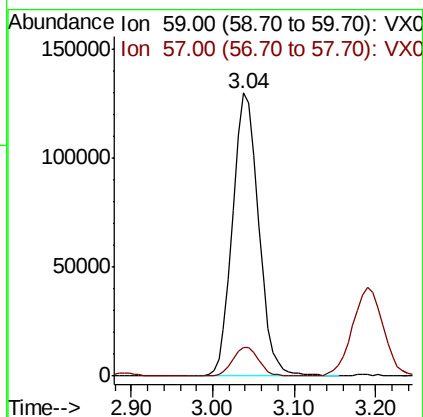
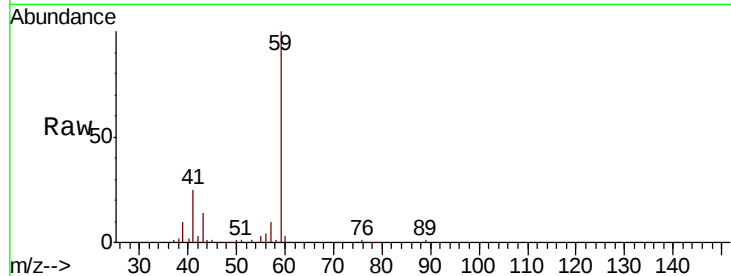




#11  
Tert butyl alcohol  
Concen: 480.818 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. -0.01 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

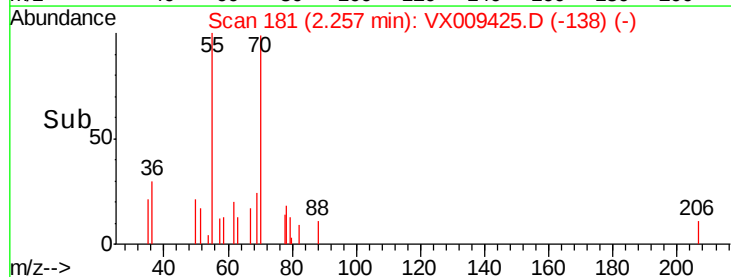
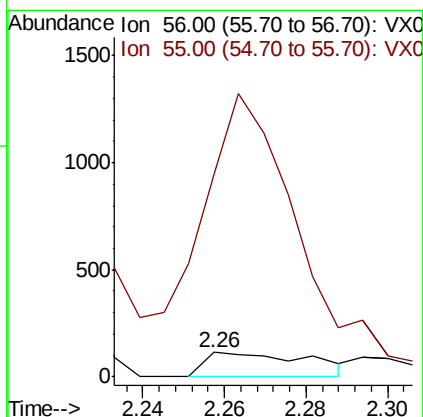
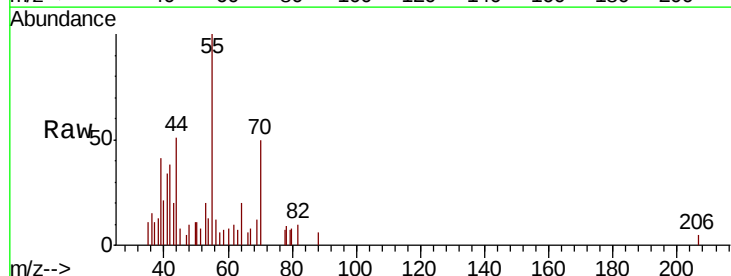
Instrument :  
MSVOA\_X  
ClientSampled :

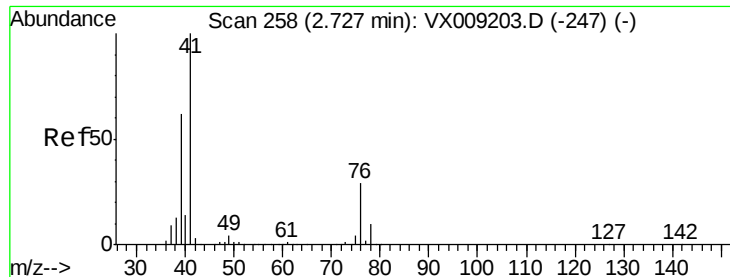
Tot Ion: 59 Resp: 287115  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.2 12.2



#13  
Acrolein  
Concen: 0.368 ug/l  
RT: 2.26 min Scan# 181  
Delta R.T. -0.04 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion: 56 Resp: 199  
Ion Ratio Lower Upper  
56 100  
55 1168.3 56.6 85.0#





#14

Allvl chloride

Concen: 4.783 ug/l

RT: 2.84 min Scan# 277

Delta R.T. 0.12 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

ClientSampleId :

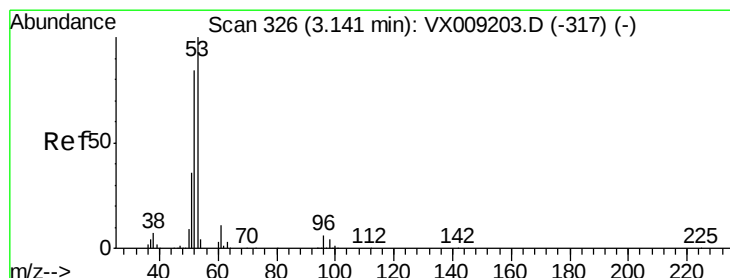
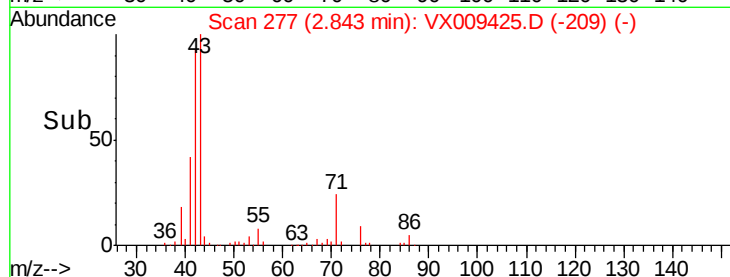
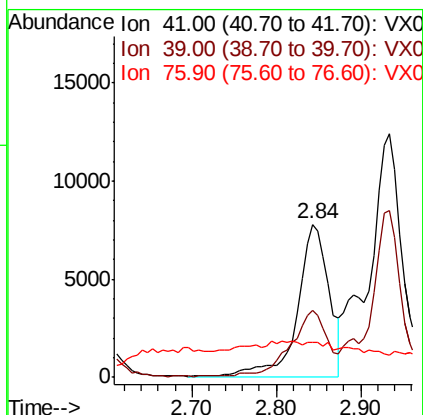
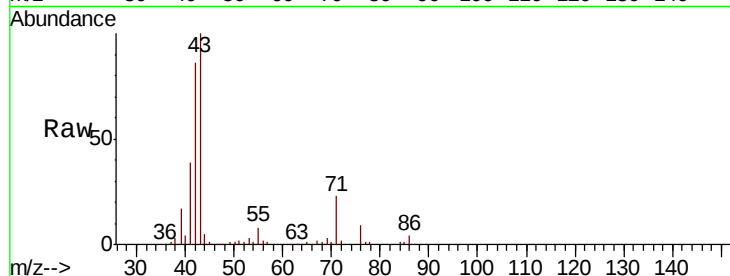
Tot Ion: 41 Resp: 20667

Ion Ratio Lower Upper

41 100

39 48.4 46.7 70.1

76 0.0 21.8 32.8#



#15

Acrylonitrile

Concen: 3.346 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.05 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

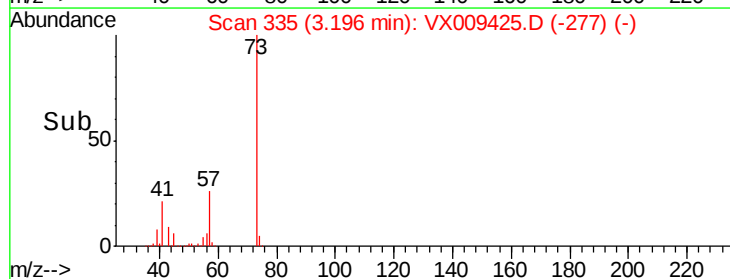
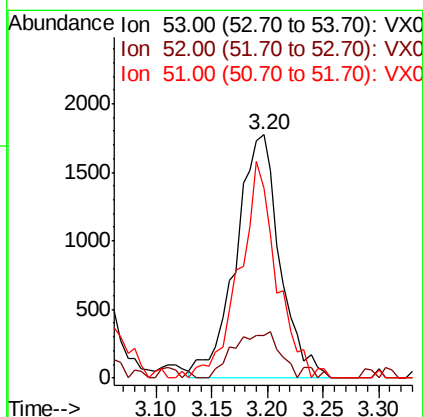
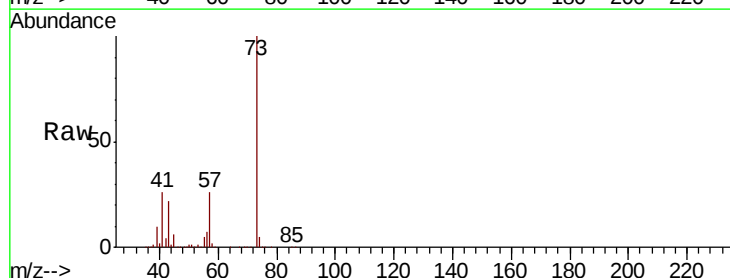
Tgt Ion: 53 Resp: 4885

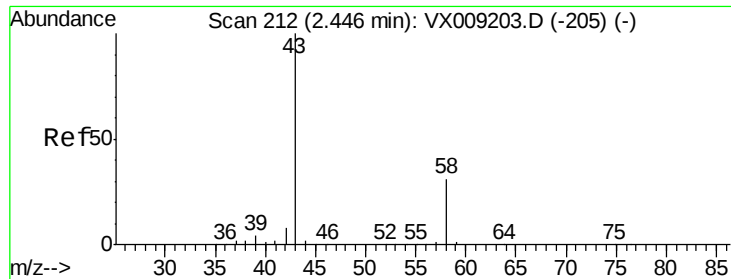
Ion Ratio Lower Upper

53 100

52 19.8 66.9 100.3#

51 75.5 28.2 42.2#





#16

Acetone

Concen: 4.980 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

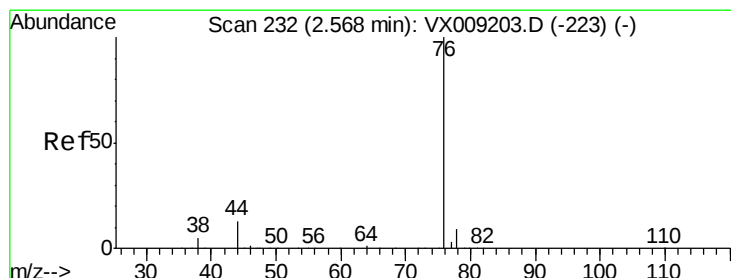
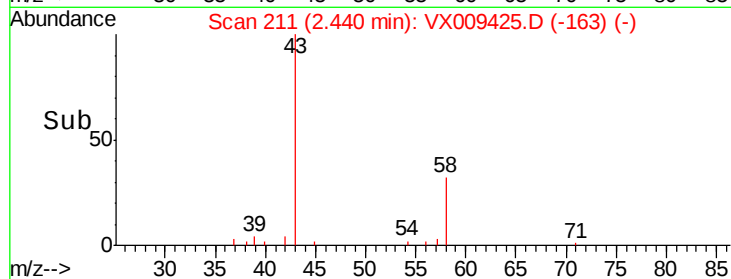
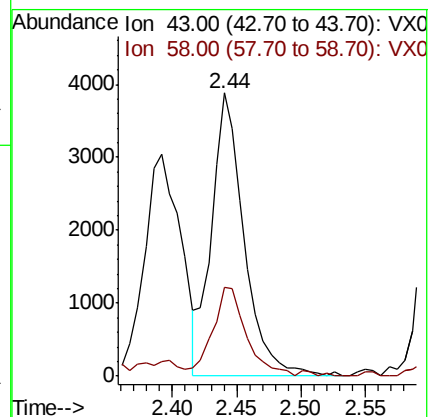
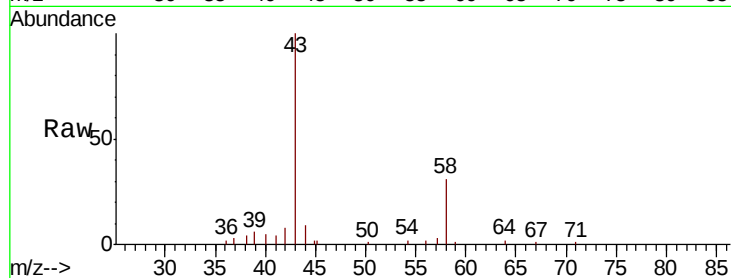
ClientSampleId :

Tot Ion: 43 Resp: 6898

Ion Ratio Lower Upper

43 100

58 31.3 24.9 37.3



#17

Carbon Disulfide

Concen: 0.584 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009425.D

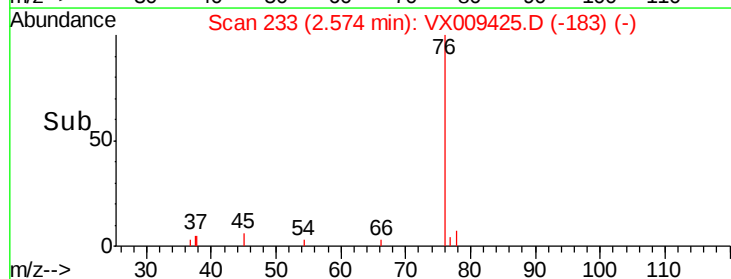
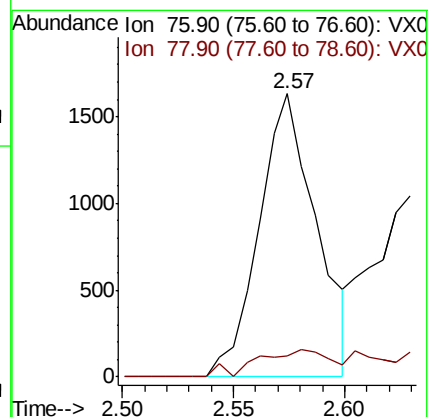
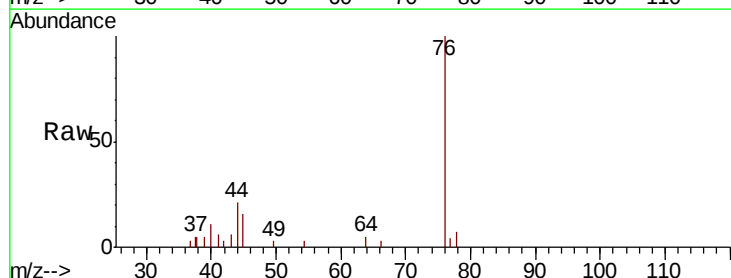
Acq: 09 May 2019 14:14

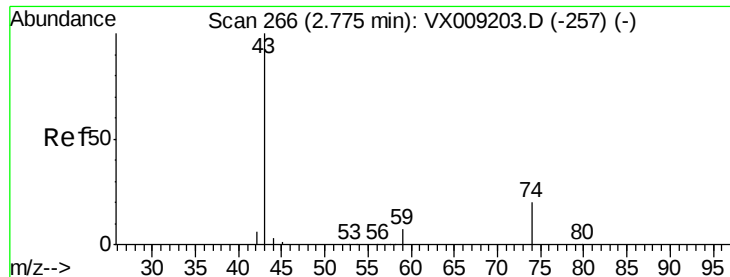
Tgt Ion: 76 Resp: 2909

Ion Ratio Lower Upper

76 100

78 7.3 7.4 11.0#

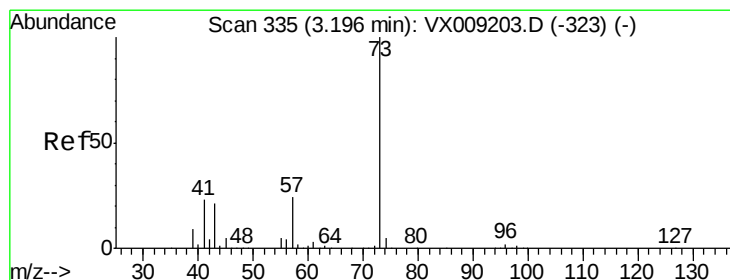
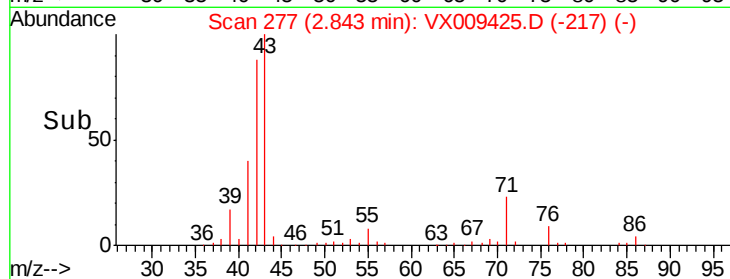
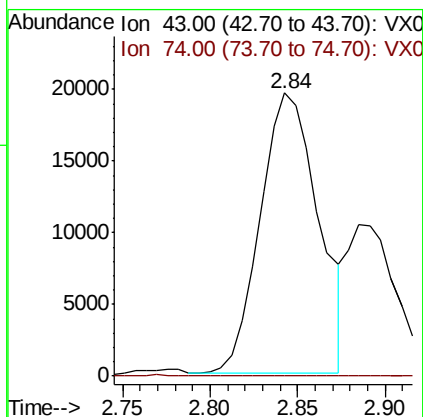
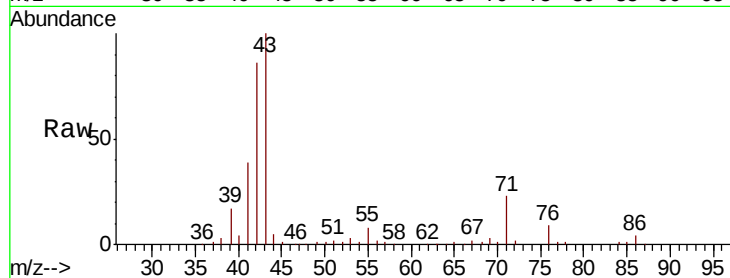




#18  
Methyl Acetate  
Concen: 13.764 ug/l  
RT: 2.84 min Scan# 277  
Delta R.T. 0.07 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

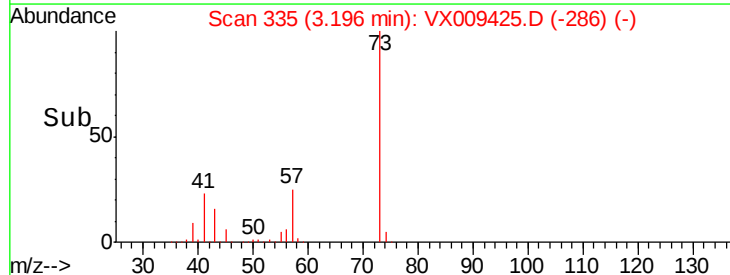
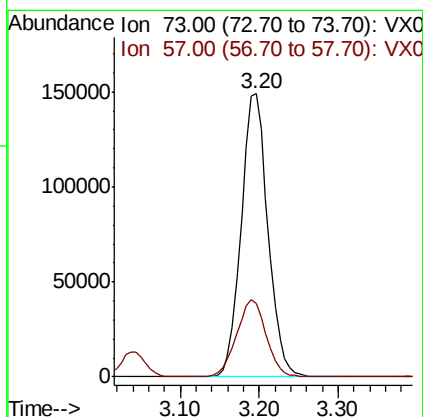
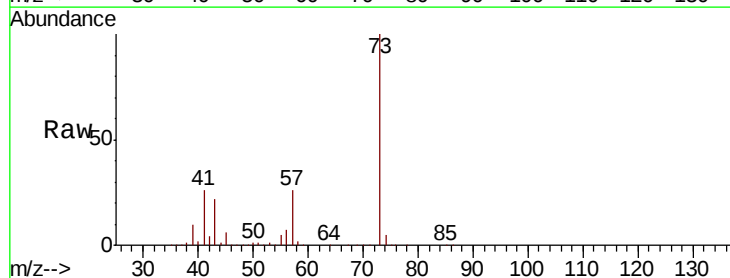
Instrument :  
MSVOA\_X  
ClientSampled :

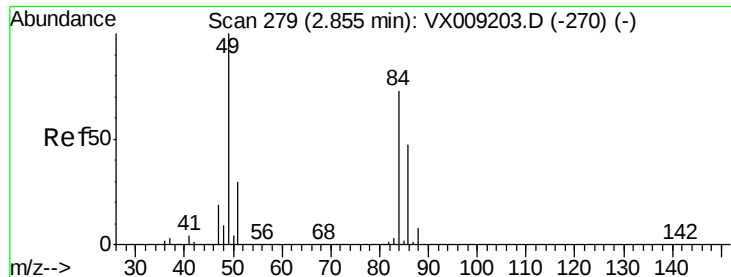
Tot Ion: 43 Resp: 45344  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.2 24.4#



#19  
Methyl tert-butyl Ether  
Concen: 51.029 ug/l  
RT: 3.20 min Scan# 335  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion: 73 Resp: 351356  
Ion Ratio Lower Upper  
73 100  
57 25.9 19.3 28.9

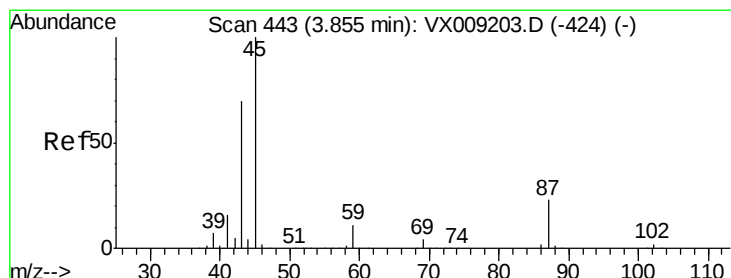
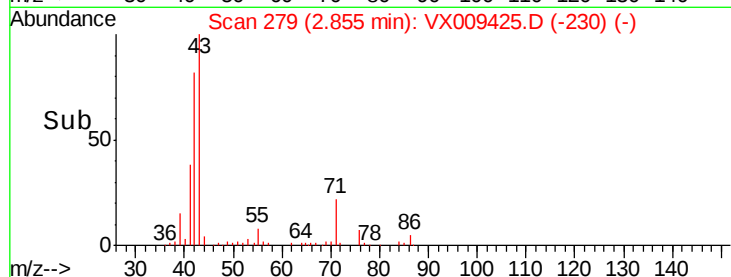
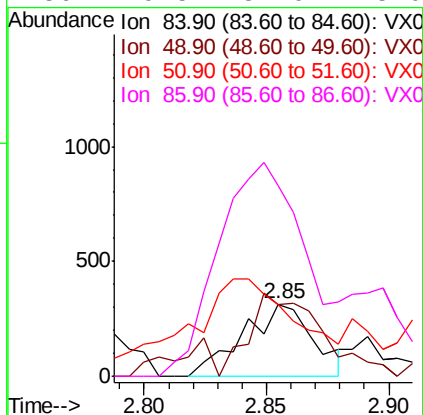
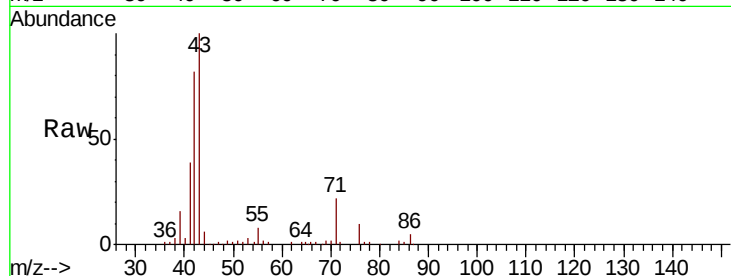




#20  
Methvlene Chloride  
Concen: 0.280 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

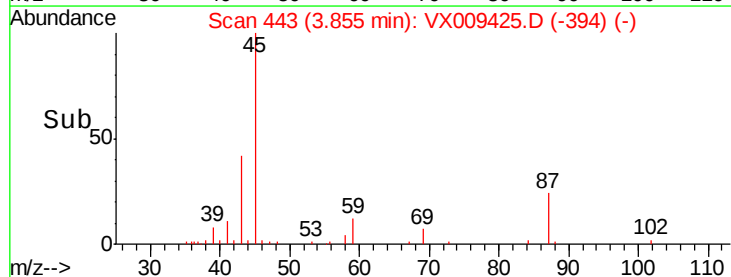
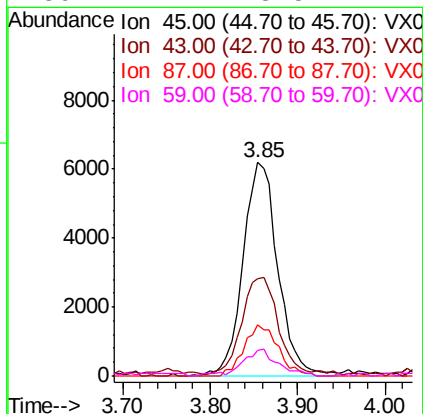
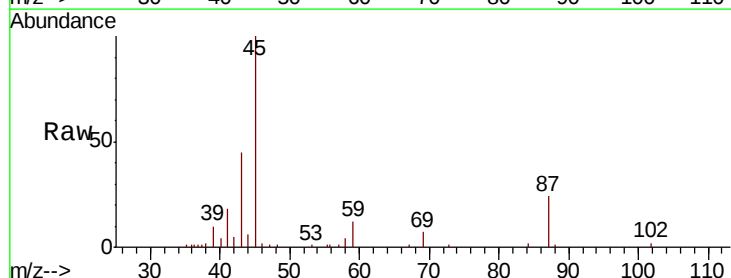
Instrument :  
MSVOA\_X  
ClientSampled :

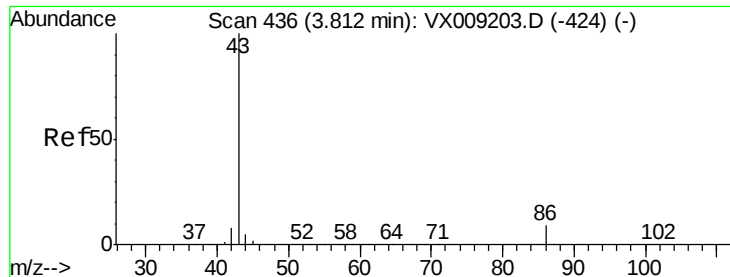
| Tot Ion: | 84    | Resp: | 628    |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 72.1  | 109.9 | 164.9# |
| 51       | 56.1  | 32.7  | 49.1#  |
| 86       | 229.5 | 52.0  | 78.0#  |



#22  
Diisopropyl ether  
Concen: 2.064 ug/l  
RT: 3.85 min Scan# 443  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

| Tgt Ion: | 45    | Resp: | 17151 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 44.2  | 56.1  | 84.1# |
| 87       | 23.9  | 18.1  | 27.1  |
| 59       | 12.2  | 8.5   | 12.7  |

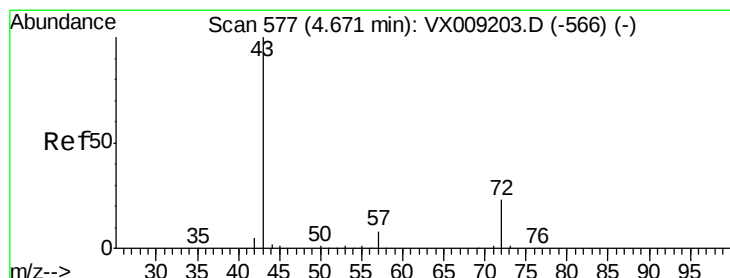
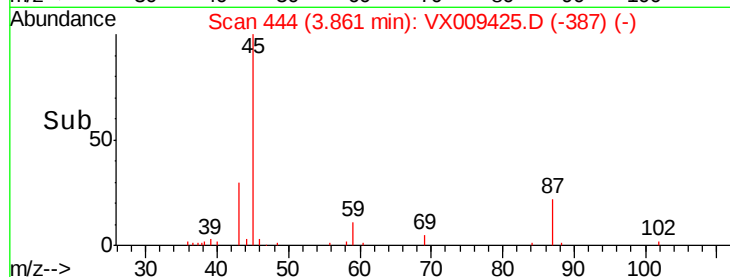
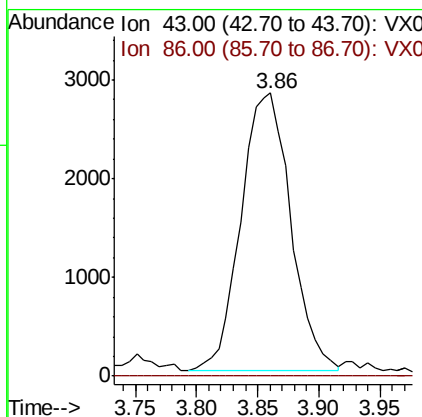
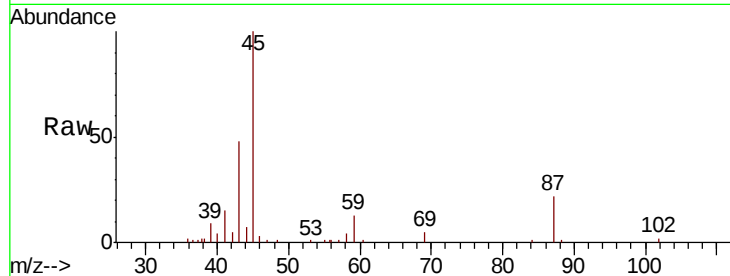




#23  
 Vinyl Acetate  
 Concen: 1.119 ug/l  
 RT: 3.86 min Scan# 444  
 Delta R.T. 0.05 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

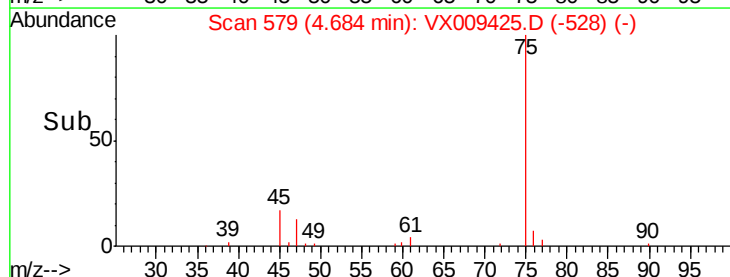
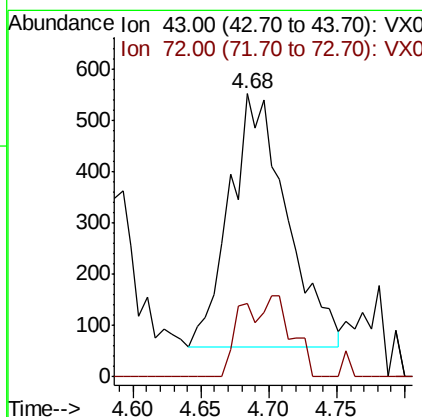
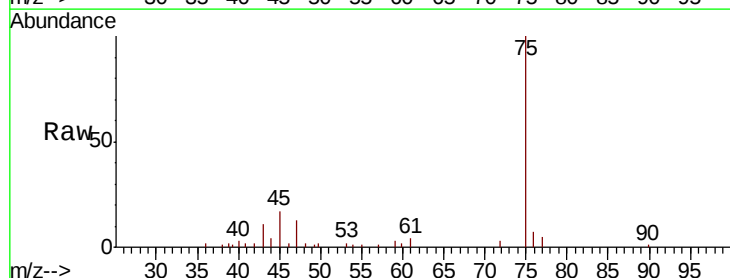
Instrument :  
 MSVOA\_X  
 ClientSampleId :

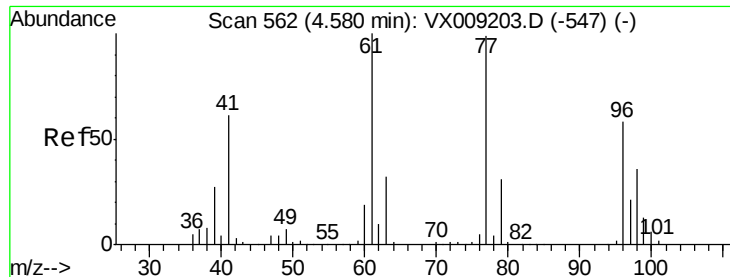
Tot Ion: 43 Resp: 7965  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 6.9 10.3#



#25  
 2-Butanone  
 Concen: 0.670 ug/l  
 RT: 4.68 min Scan# 579  
 Delta R.T. 0.01 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

Tgt Ion: 43 Resp: 1442  
 Ion Ratio Lower Upper  
 43 100  
 72 29.0 18.2 27.2#

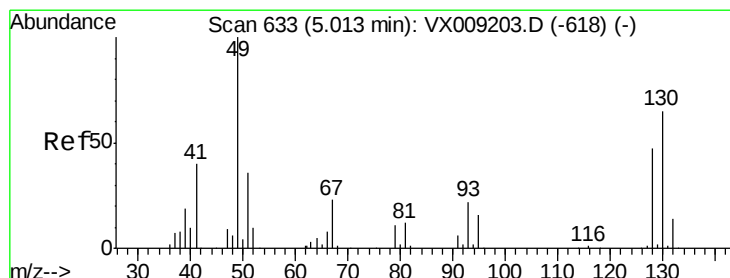
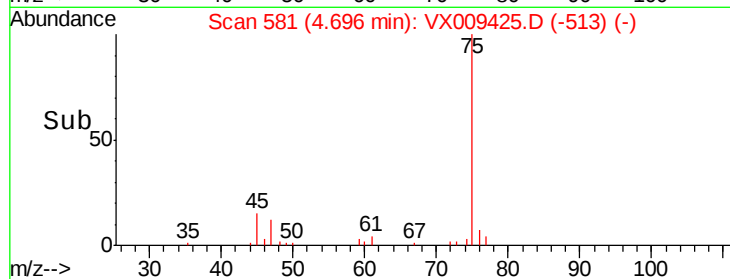
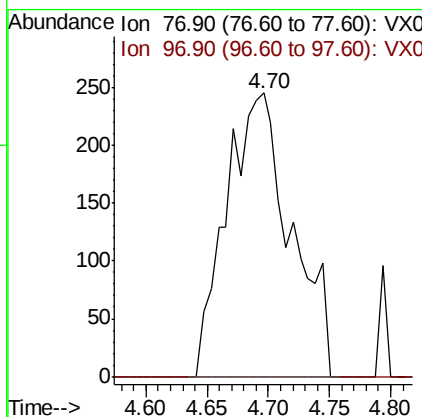
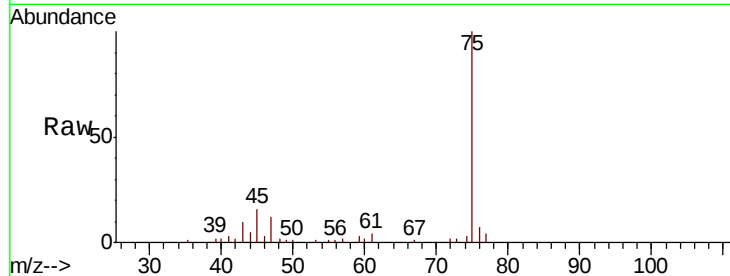




#26  
 2,2-Dichloropropane  
 Concen: 0.296 ug/l  
 RT: 4.70 min Scan# 581  
 Delta R.T. 0.12 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

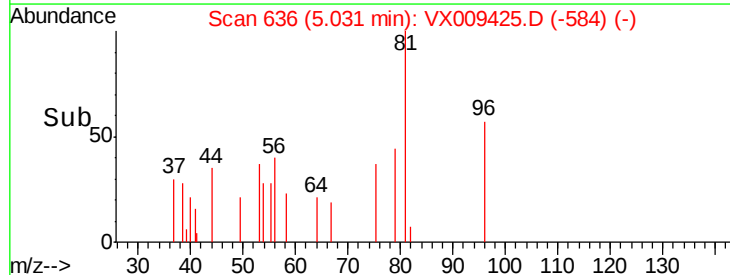
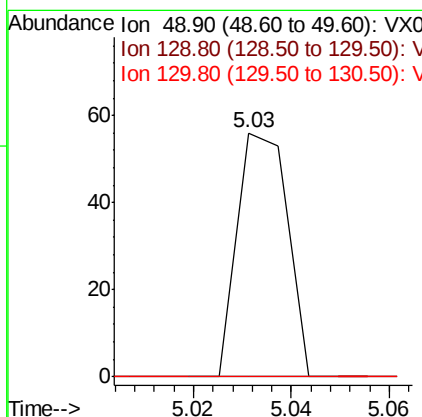
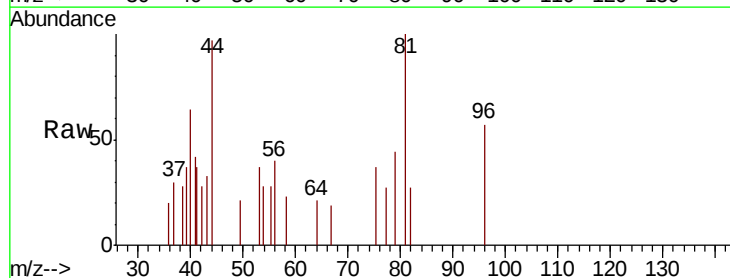
Instrument :  
 MSVOA\_X  
 ClientSampled :

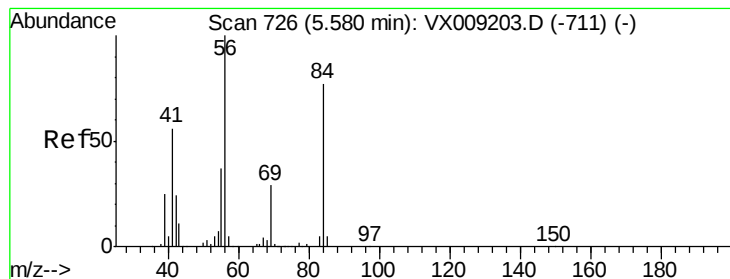
Tot Ion: 77 Resp: 903  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 11.5 34.4#



#28  
 Bromochloromethane  
 Concen: Below Cal  
 RT: 5.03 min Scan# 636  
 Delta R.T. 0.02 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

Tgt Ion: 49 Resp: 40  
 Ion Ratio Lower Upper  
 49 100  
 129 0.0 0.0 3.8  
 130 0.0 51.2 76.8#





#31

Cyclohexane

Concen: 8.522 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

ClientSampled :

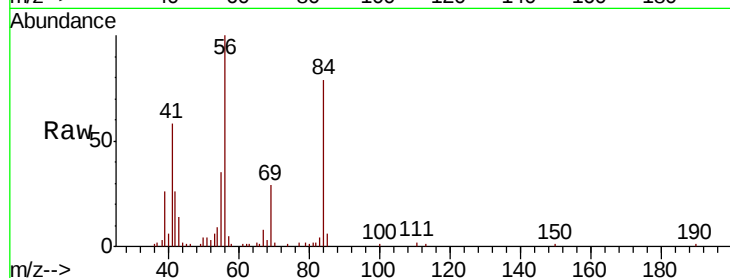
Tot Ion: 56 Resp: 32504

Ion Ratio Lower Upper

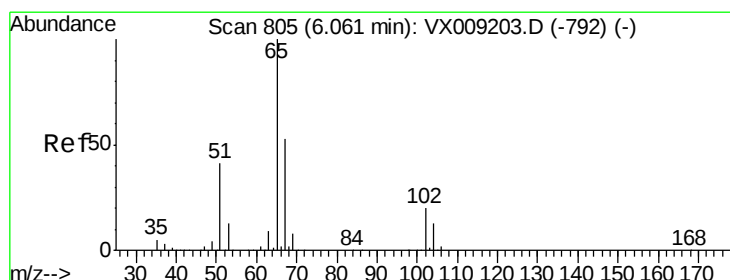
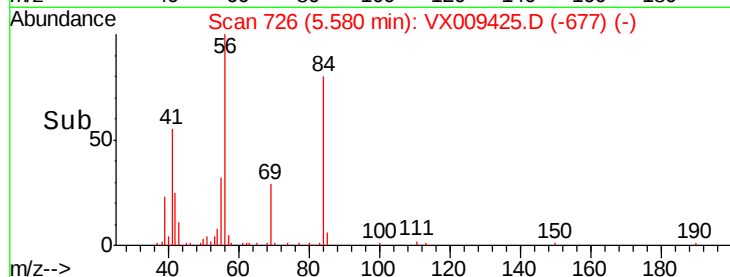
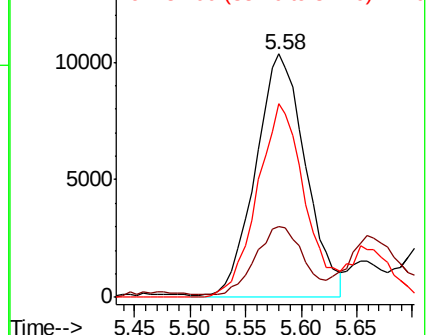
56 100

69 27.9 23.4 35.0

84 80.3 61.9 92.9



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: 47.545 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009425.D

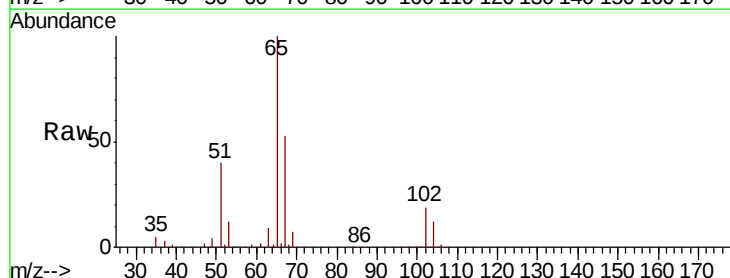
Acq: 09 May 2019 14:14

Tgt Ion: 65 Resp: 122652

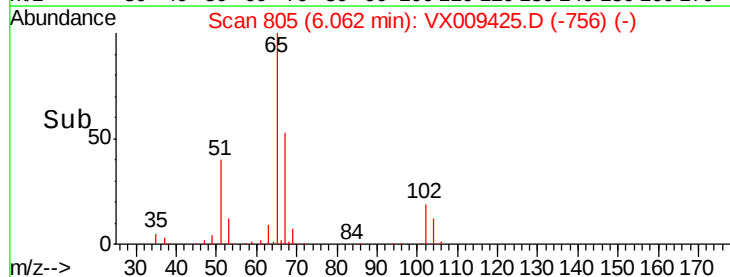
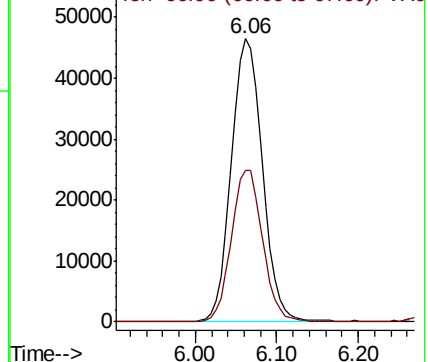
Ion Ratio Lower Upper

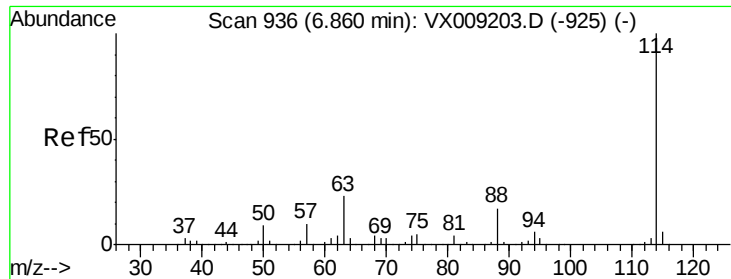
65 100

67 53.4 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

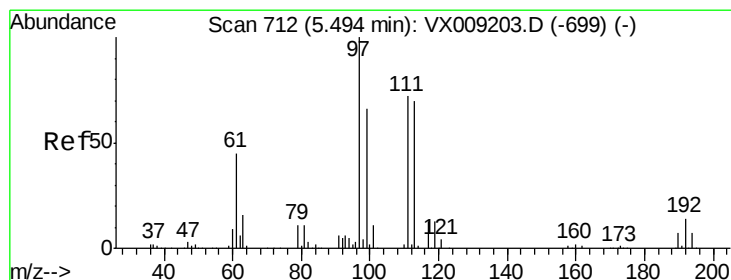
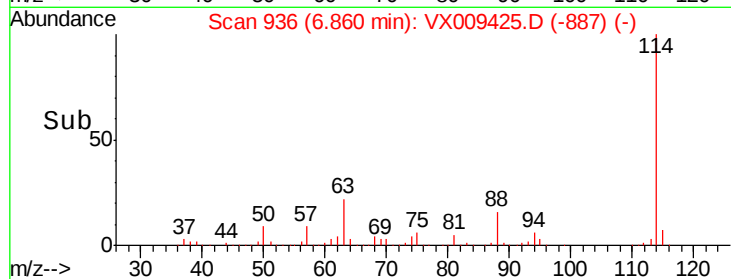
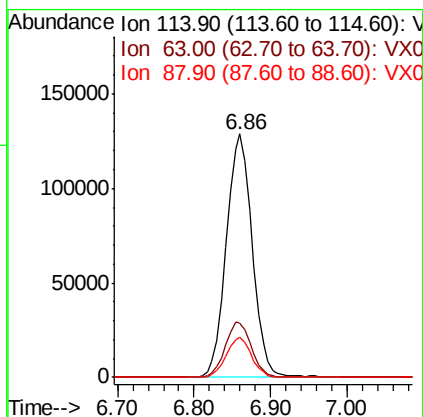
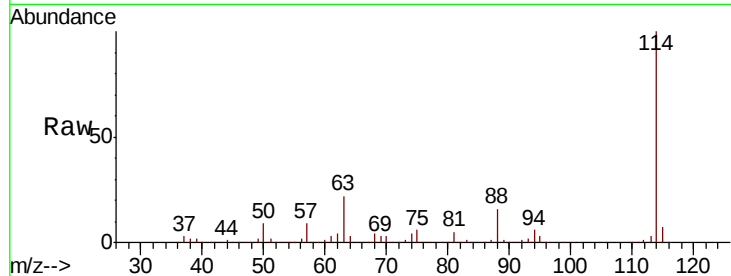




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

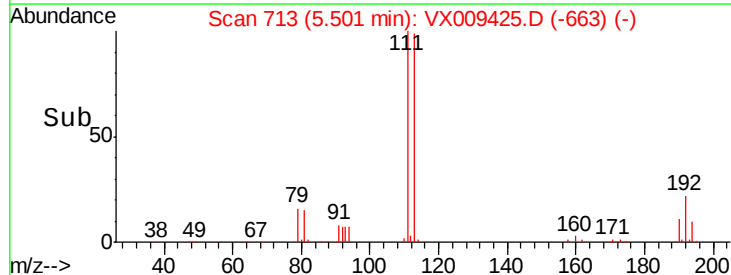
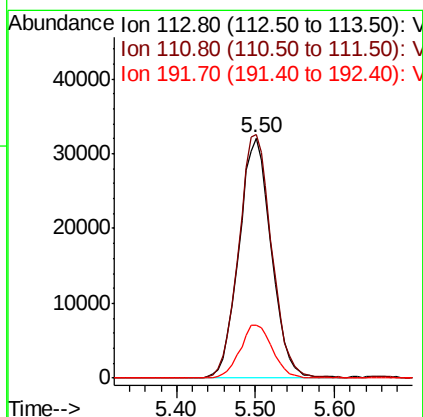
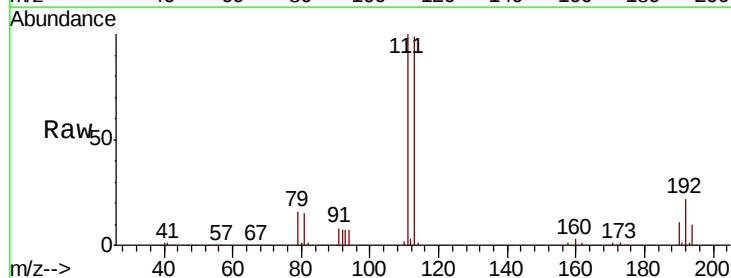
Instrument :  
 MSVOA\_X  
 ClientSampleId :

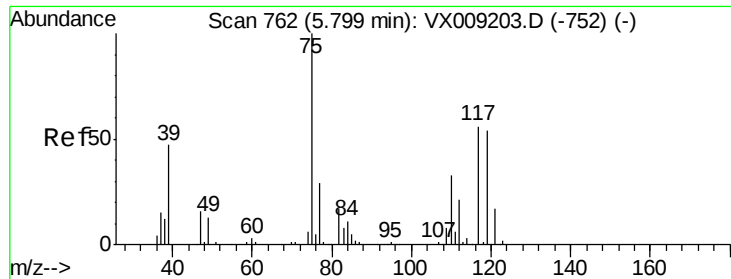
Tot Ion:114 Resp: 301555  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 45.6  
 88 16.4 0.0 33.2



#35  
 Dibromofluoromethane  
 Concen: 48.118 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

Tgt Ion:113 Resp: 91218  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 82.8 124.2  
 192 22.3 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.230 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :  
MSVOA\_X  
ClientSampleId :

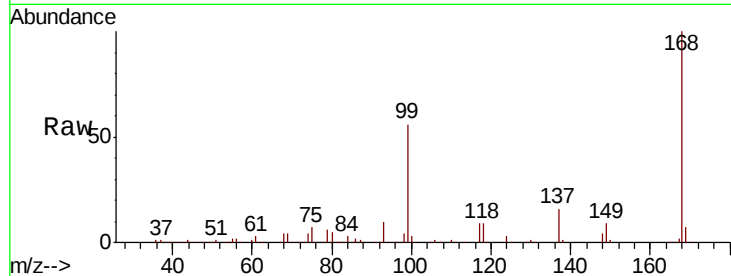
Tot Ion: 75 Resp: 14656

Ion Ratio Lower Upper

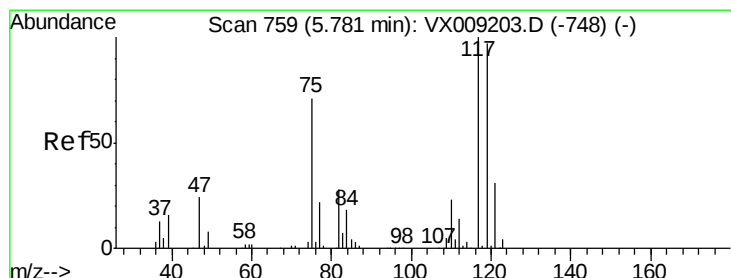
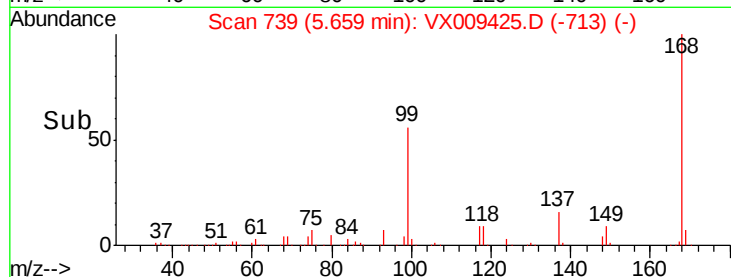
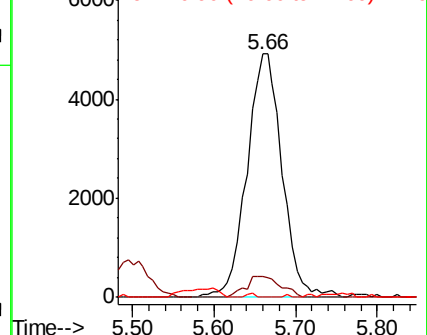
75 100

110 8.6 16.9 50.6#

77 0.3 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.967 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

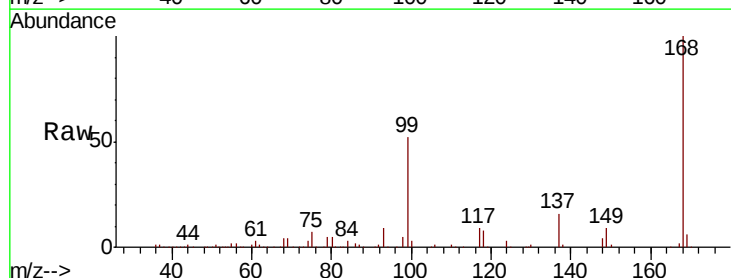
Tgt Ion: 117 Resp: 17738

Ion Ratio Lower Upper

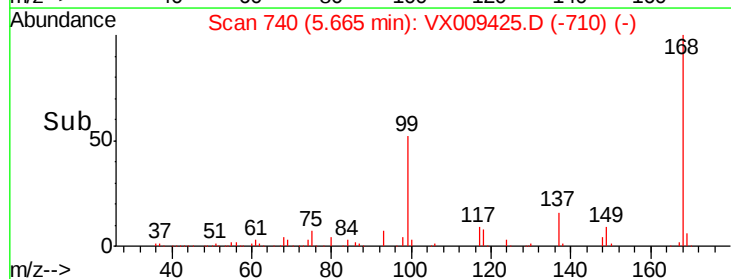
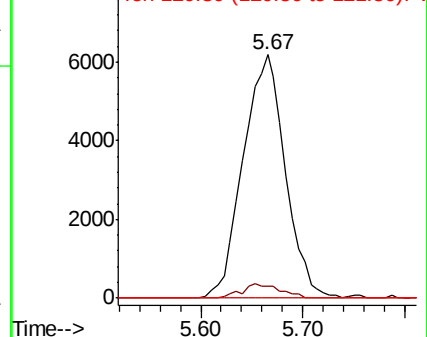
117 100

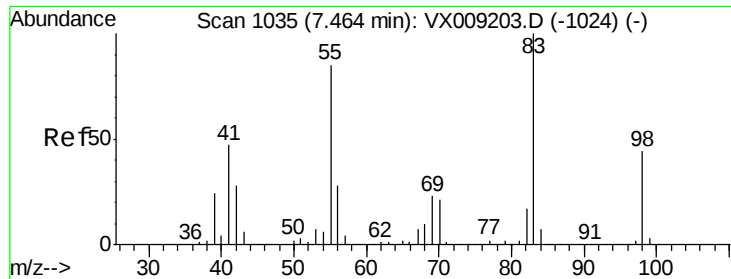
119 4.8 77.5 116.3#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

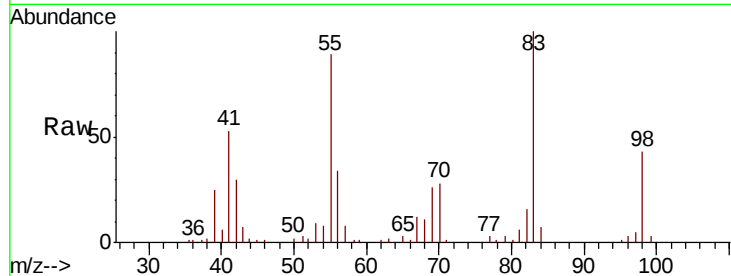




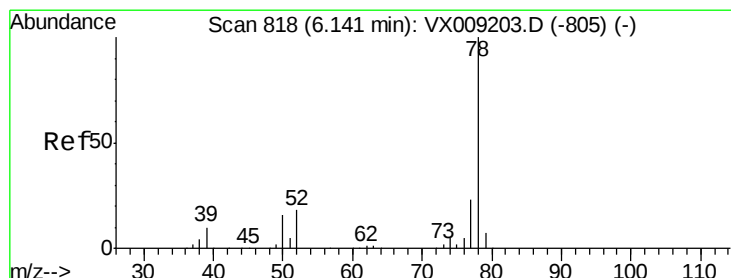
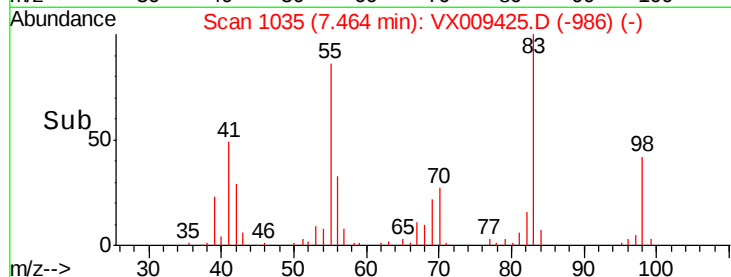
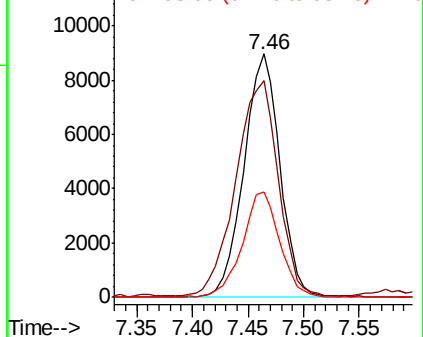
#39  
Methvlcvclohexane  
Concen: 5.865 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 83 Resp: 20184  
Ion Ratio Lower Upper  
83 100  
55 88.2 67.7 101.5  
98 43.5 35.5 53.3

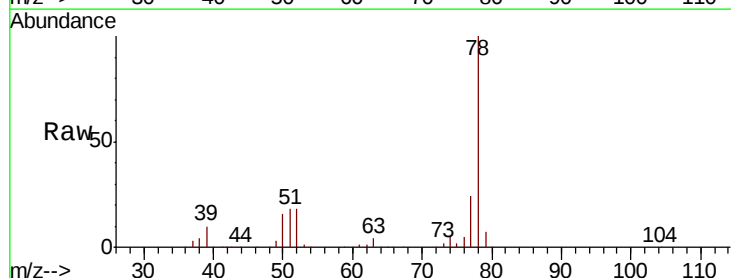


Abundance Ion 83.00 (82.70 to 83.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0

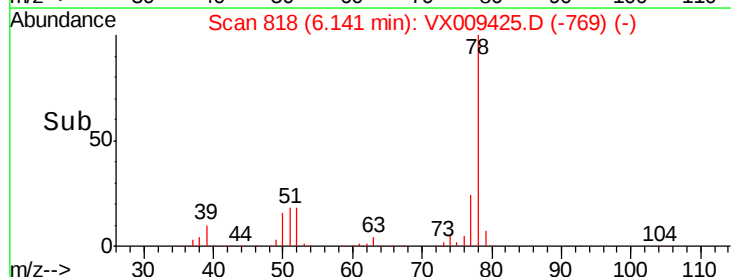
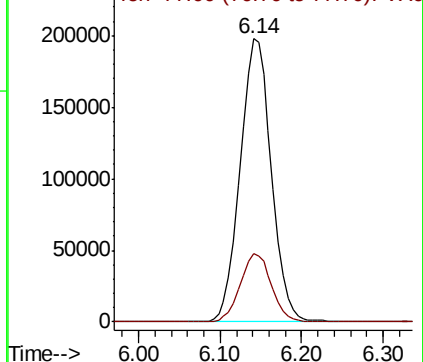


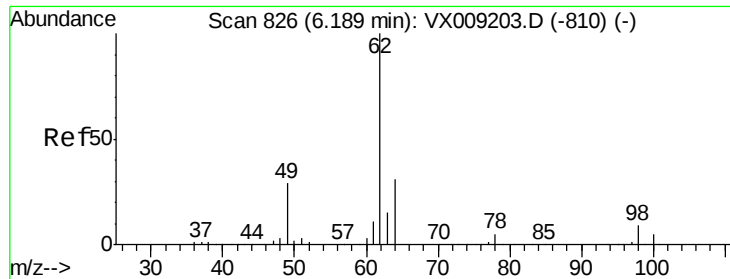
#40  
Benzene  
Concen: 60.488 ug/l  
RT: 6.14 min Scan# 818  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion: 78 Resp: 524608  
Ion Ratio Lower Upper  
78 100  
77 24.2 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0  
Ion 77.00 (76.70 to 77.70): VX0

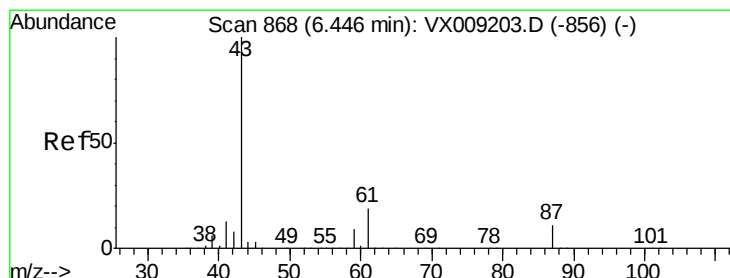
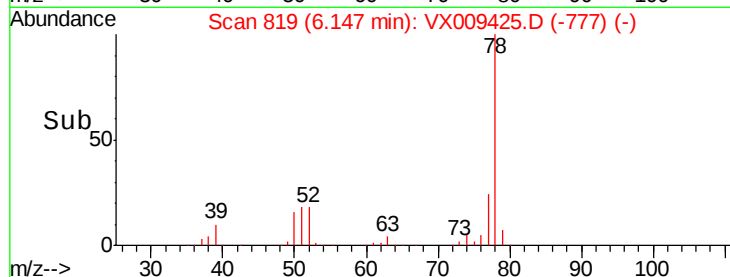
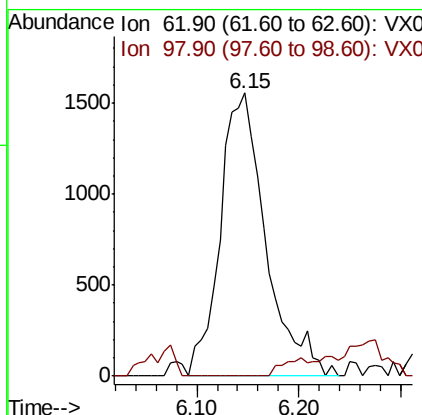
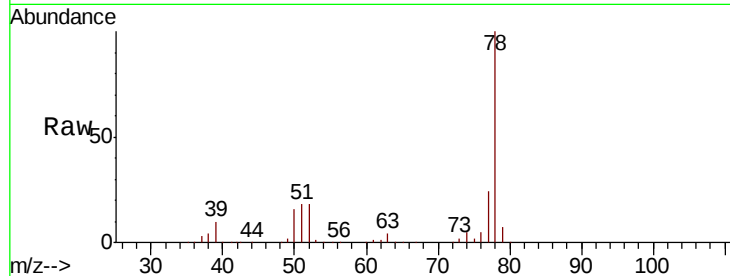




#42  
 1,2-Dichloroethane  
 Concen: 1.557 ug/l  
 RT: 6.15 min Scan# 819  
 Delta R.T. -0.04 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

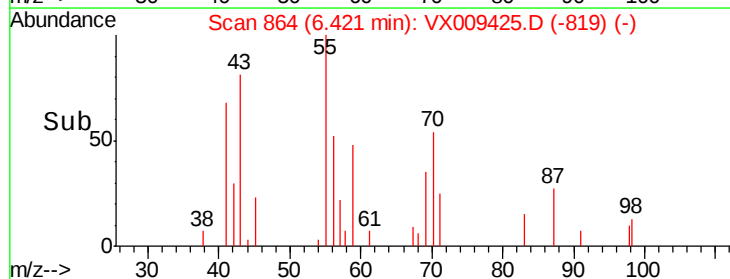
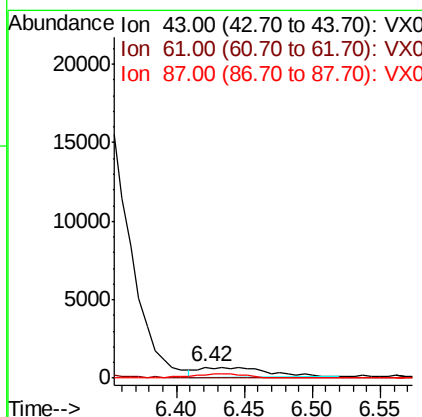
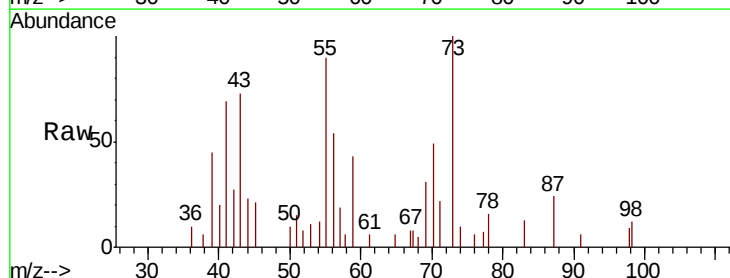
Instrument :  
 MSVOA\_X  
 ClientSampleId :

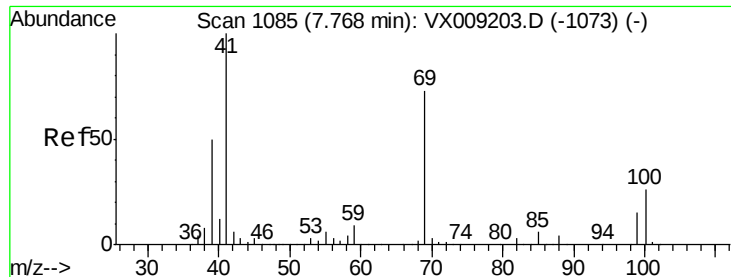
Tot Ion: 62 Resp: 4843  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 0.0 18.2



#43  
 Isopropyl Acetate  
 Concen: 0.339 ug/l  
 RT: 6.42 min Scan# 864  
 Delta R.T. -0.02 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

Tgt Ion: 43 Resp: 2116  
 Ion Ratio Lower Upper  
 43 100  
 61 2.1 15.1 22.7#  
 87 37.1 9.0 13.6#

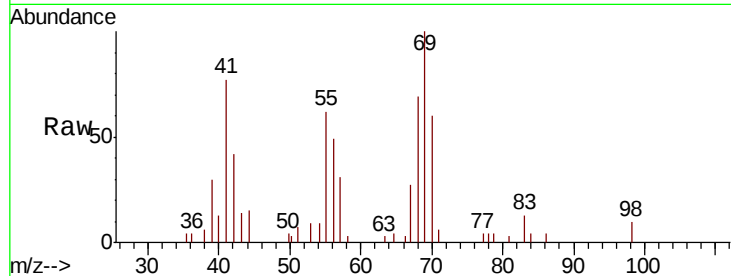




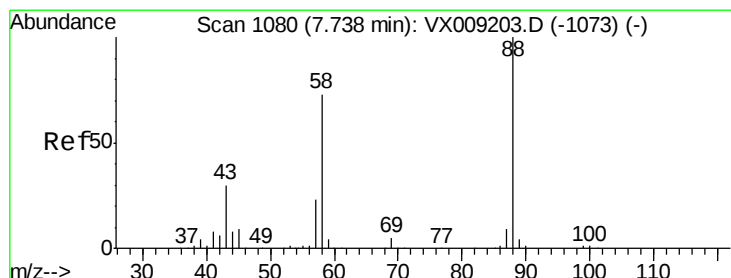
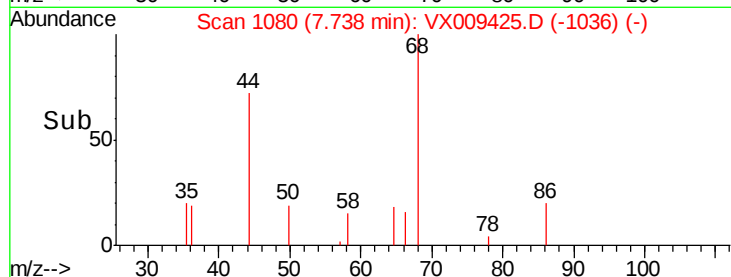
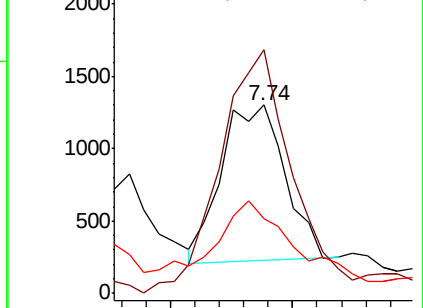
#48  
Methvl methacrylate  
Concen: 0.626 ug/l  
RT: 7.74 min Scan# 1080  
Delta R.T. -0.03 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 41 Resp: 1941  
Ion Ratio Lower Upper  
41 100  
69 176.9 59.1 88.7#  
39 67.1 40.4 60.6#

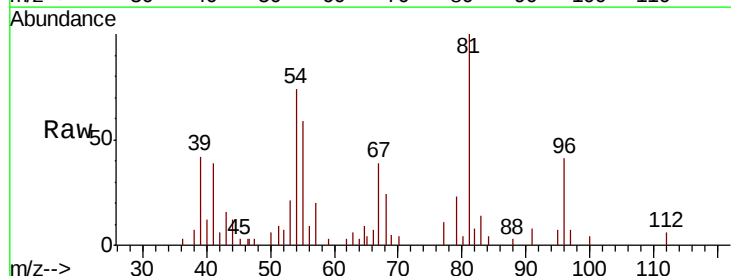


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0

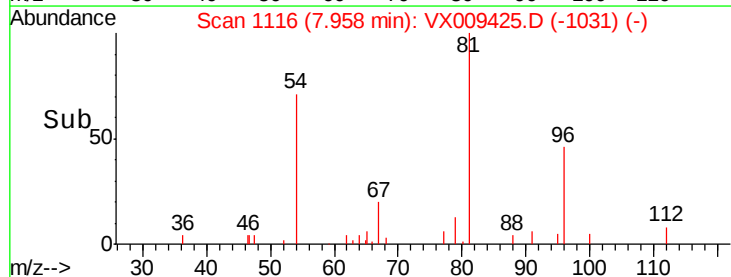
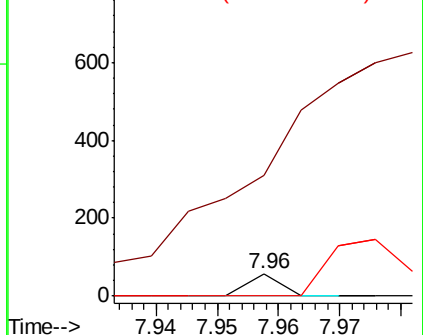


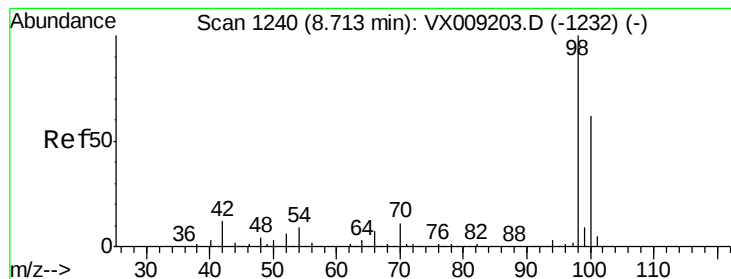
#49  
1,4-Dioxane  
Concen: 0.334 ug/l  
RT: 7.96 min Scan# 1116  
Delta R.T. 0.22 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion: 88 Resp: 21  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.6 42.8#  
58 0.0 61.7 92.5#



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: 50.141 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

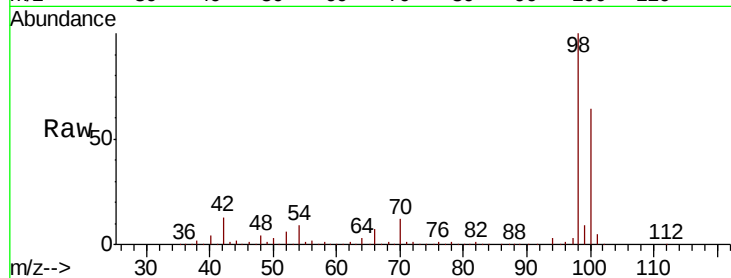
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 98 Resp: 383749

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

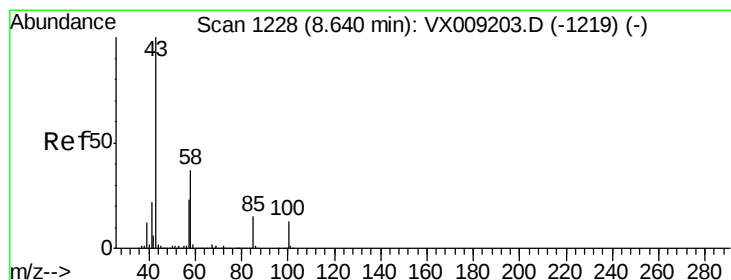
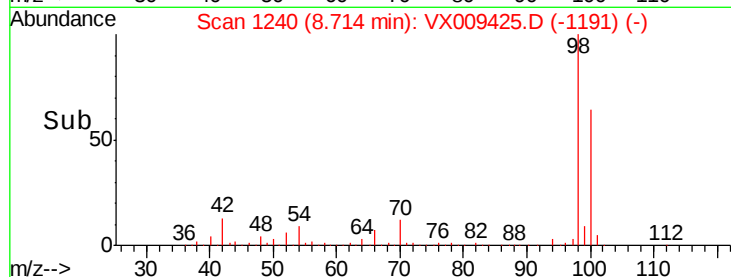
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.206 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009425.D

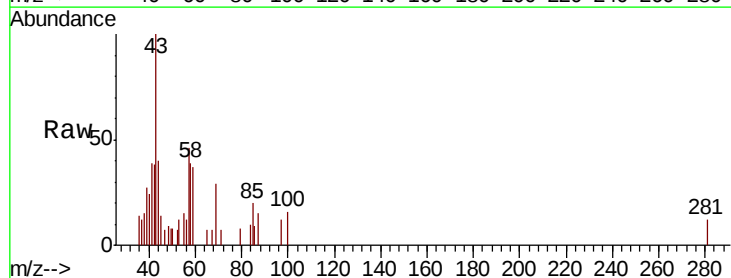
Acq: 09 May 2019 14:14

Tgt Ion: 43 Resp: 842

Ion Ratio Lower Upper

43 100

58 76.4 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

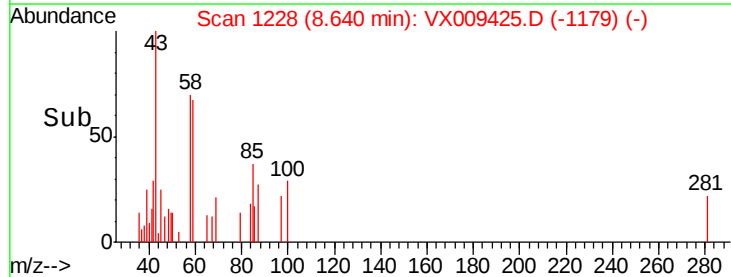
1500

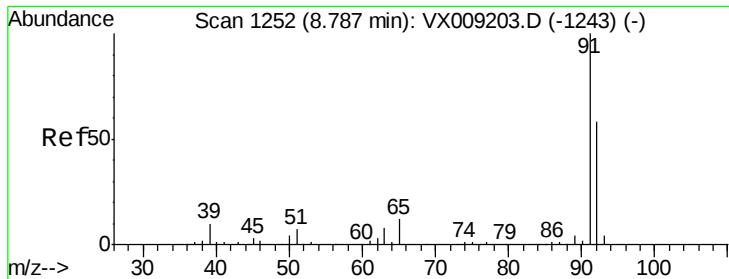
1000

500

0

Time-->





#52

Toluene

Concen: 64.817 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

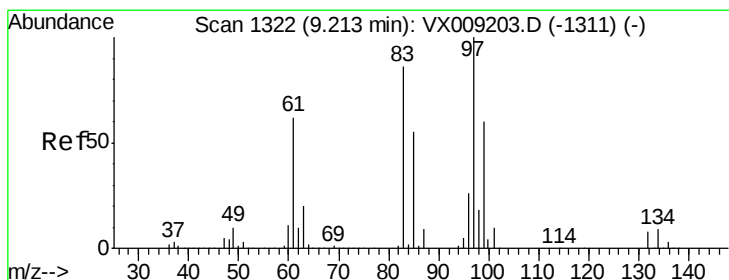
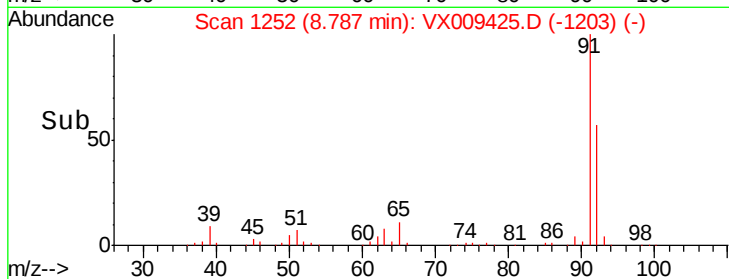
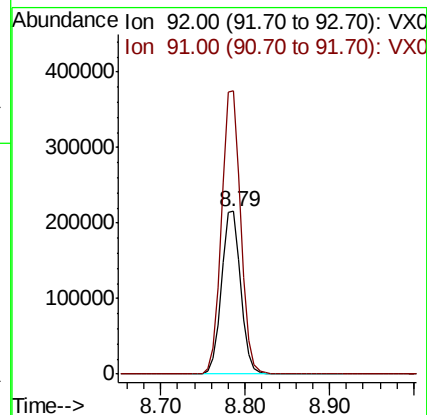
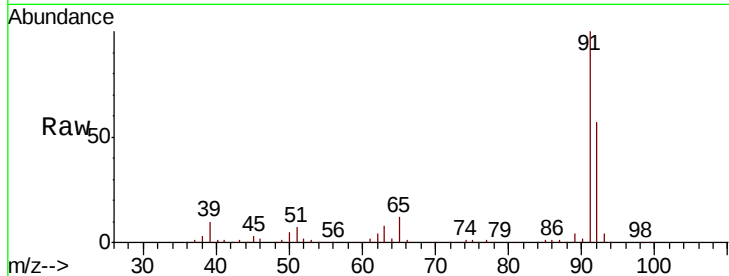
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 92 Resp: 341717

Ion Ratio Lower Upper

92 100

91 173.5 138.8 208.2



#55

1,1,2-Trichloroethane

Concen: 1.046 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Tgt Ion: 97 Resp: 2250

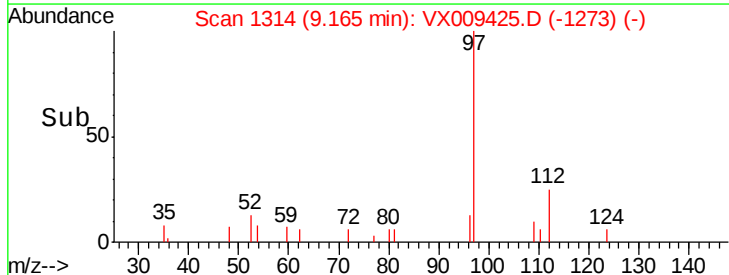
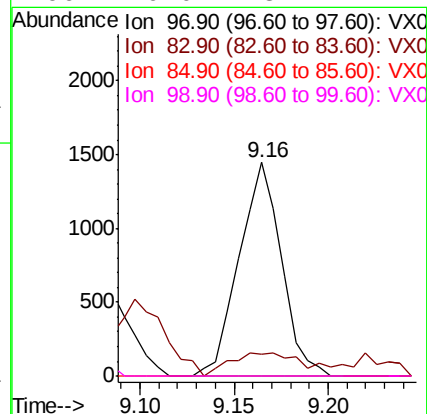
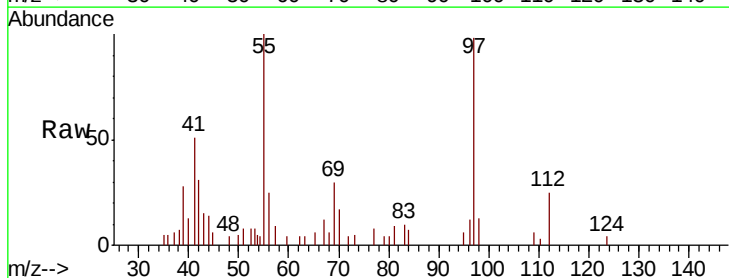
Ion Ratio Lower Upper

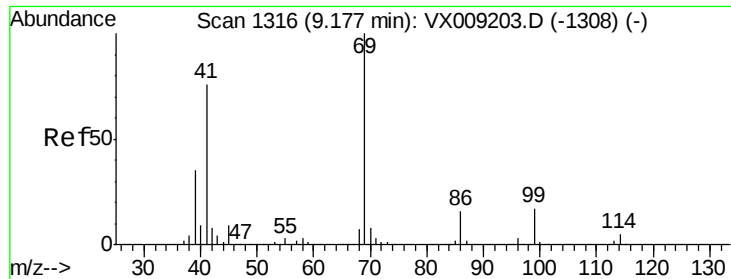
97 100

83 5.1 68.9 103.3#

85 0.0 43.8 65.6#

99 0.0 48.2 72.2#

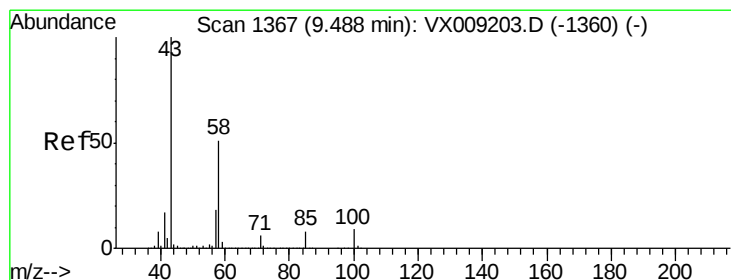
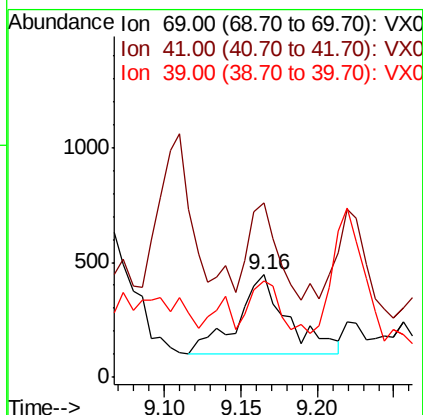
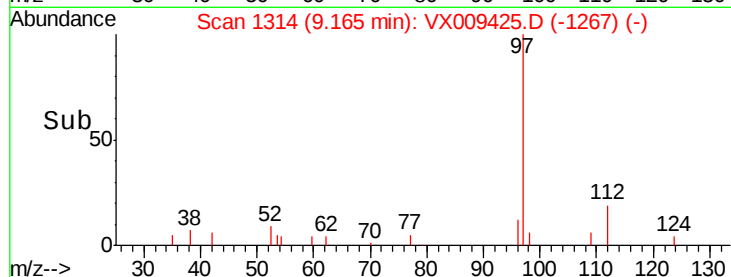
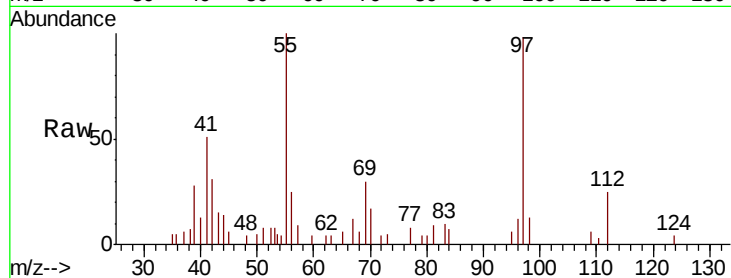




#56  
Ethyl methacrylate  
Concen: 0.206 ug/l  
RT: 9.16 min Scan# 1314  
Delta R.T. -0.01 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

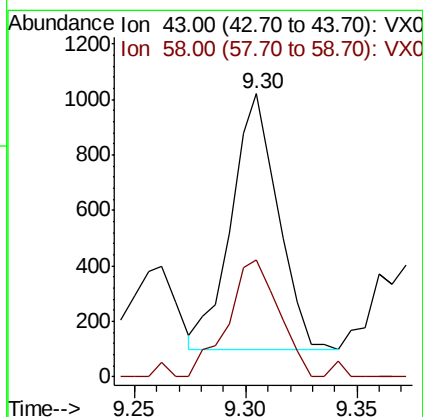
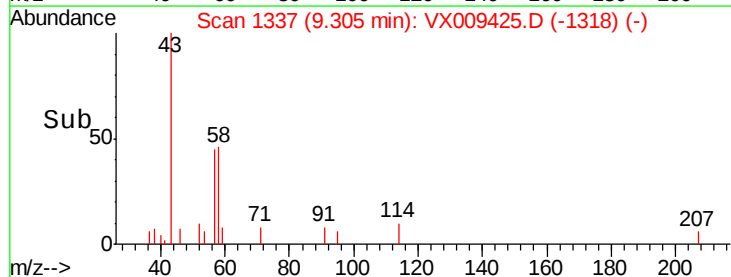
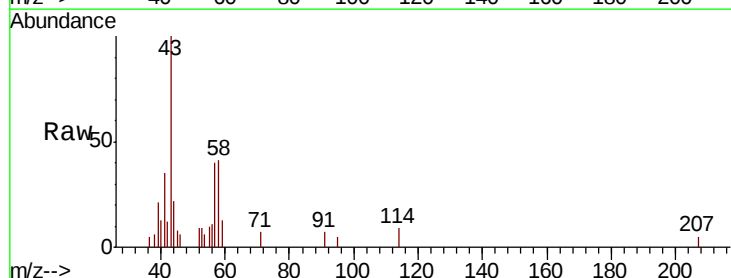
Instrument :  
MSVOA\_X  
ClientSampled :

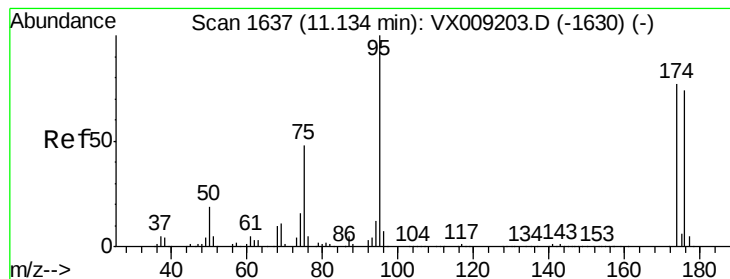
Tot Ion: 69 Resp: 790  
Ion Ratio Lower Upper  
69 100  
41 86.6 60.6 90.8  
39 39.5 28.2 42.4



#59  
2-Hexanone  
Concen: 0.419 ug/l  
RT: 9.30 min Scan# 1337  
Delta R.T. -0.18 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion: 43 Resp: 1343  
Ion Ratio Lower Upper  
43 100  
58 49.7 25.9 77.7





#62

4-Bromofluorobenzene

Concen: 47.554 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

ClientSampleId :

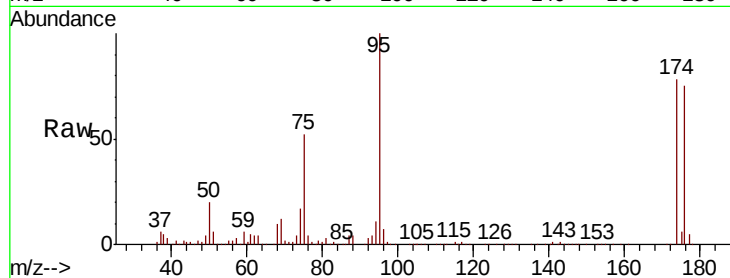
Tot Ion: 95 Resp: 132245

Ion Ratio Lower Upper

95 100

174 82.1 0.0 161.6

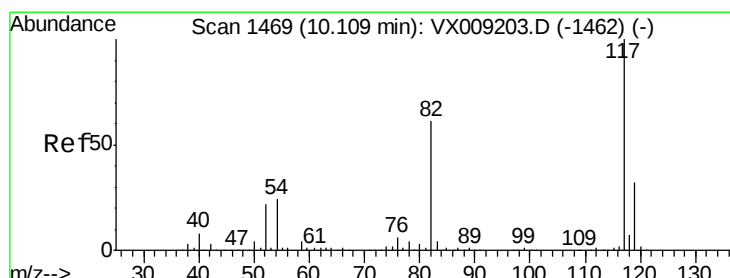
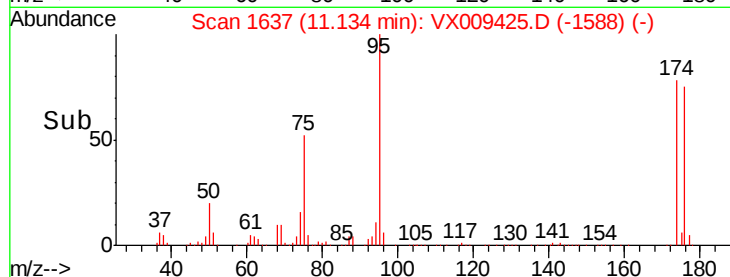
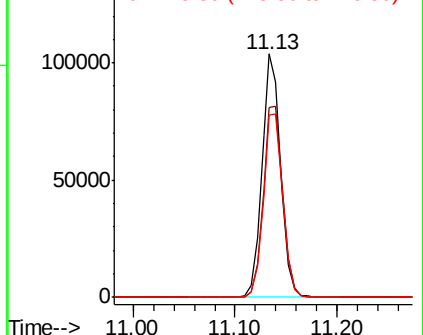
176 79.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009425.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009425.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009425.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

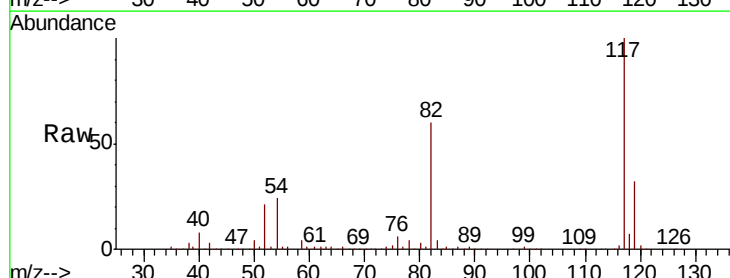
Tgt Ion: 117 Resp: 272799

Ion Ratio Lower Upper

117 100

82 59.5 48.8 73.2

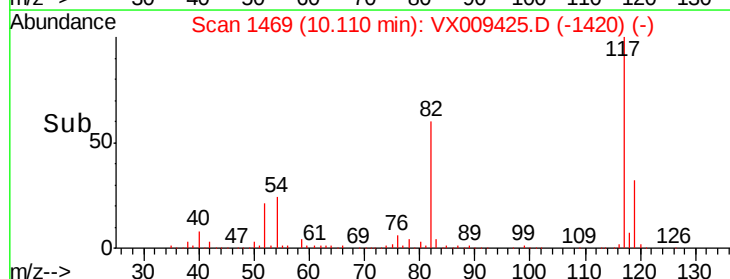
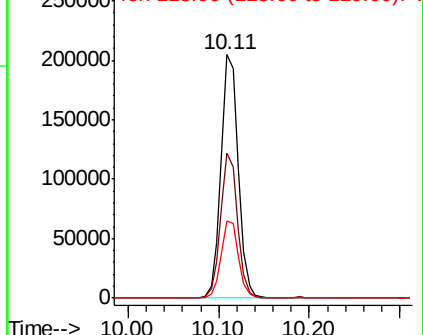
119 31.9 25.8 38.6

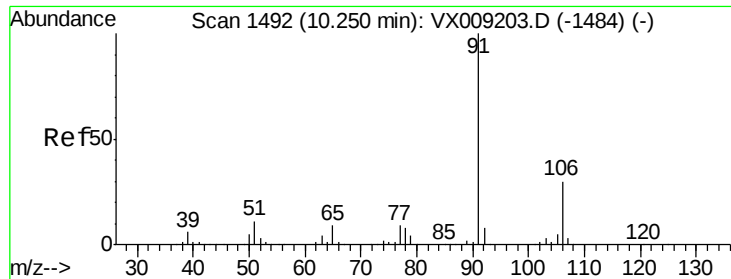


Abundance Ion 116.90 (116.60 to 117.60): VX009425.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009425.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009425.D (-1420) (-)

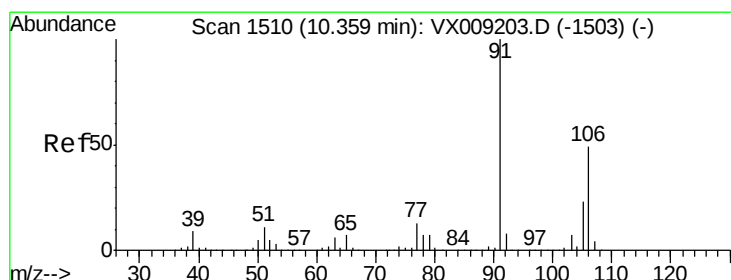
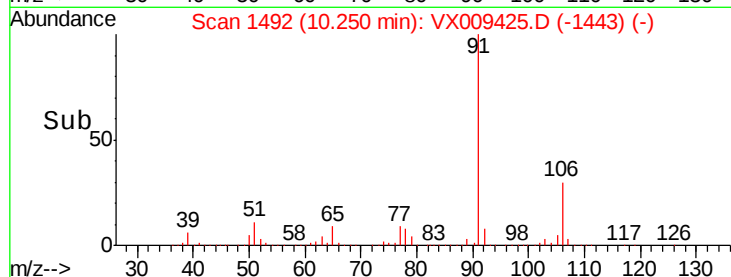
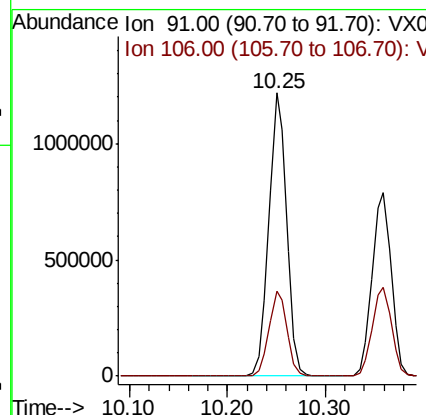
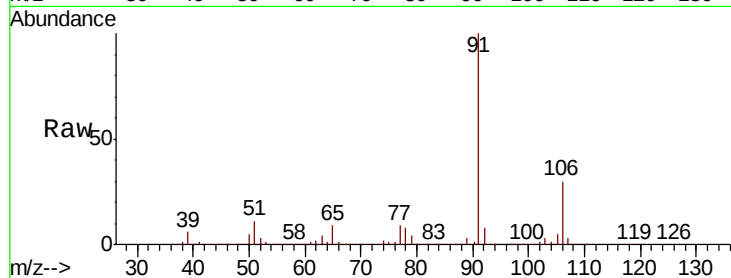




#67  
Ethyl Benzene  
Concen: 154.551 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

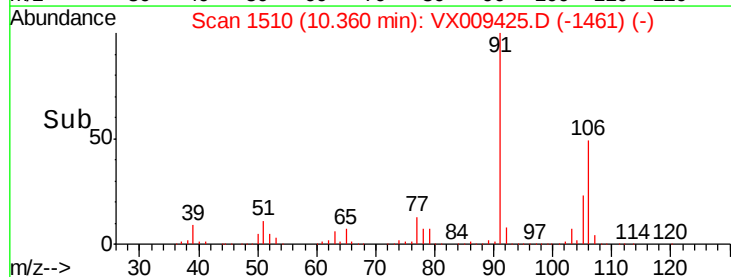
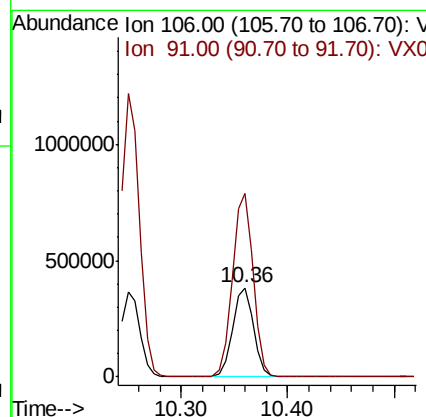
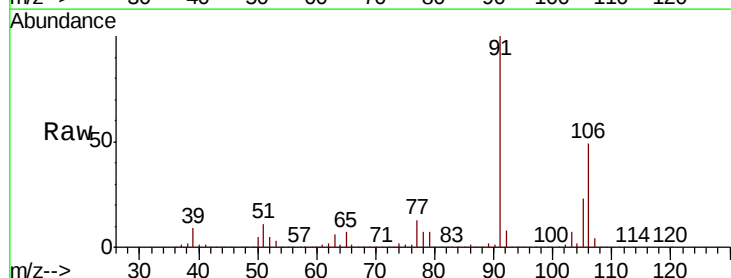
Instrument :  
MSVOA\_X  
ClientSampled :

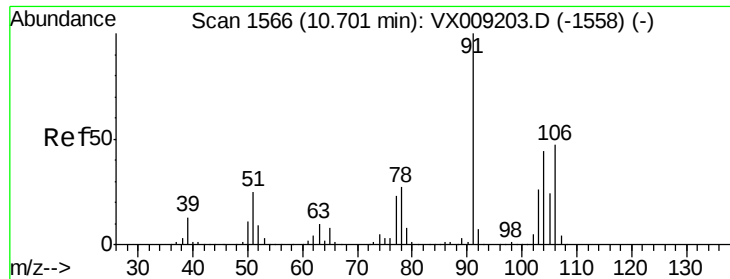
Tot Ion: 91 Resp: 1552211  
Ion Ratio Lower Upper  
91 100  
106 30.2 24.0 36.0



#68  
m/p-Xylenes  
Concen: 142.027 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion: 106 Resp: 521262  
Ion Ratio Lower Upper  
106 100  
91 206.2 164.0 246.0

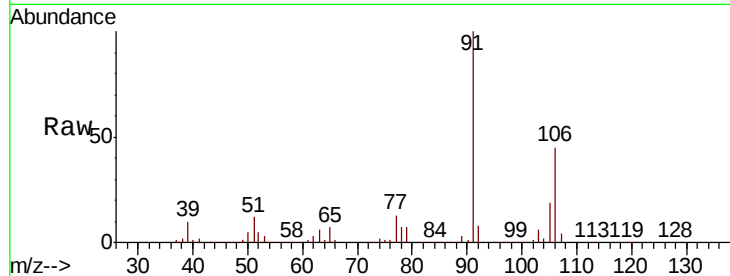




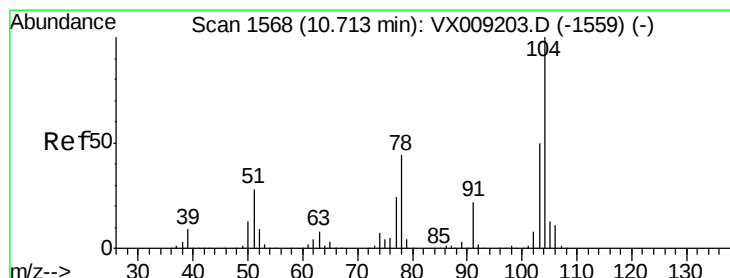
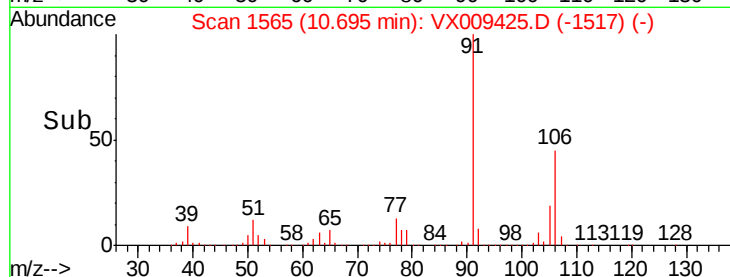
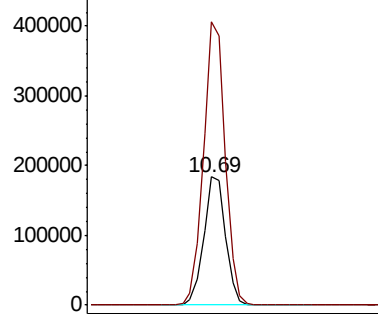
#69  
o-Xylene  
Concen: 66.418 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.01 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:106 Resp: 240510  
Ion Ratio Lower Upper  
106 100  
91 218.6 109.5 328.4

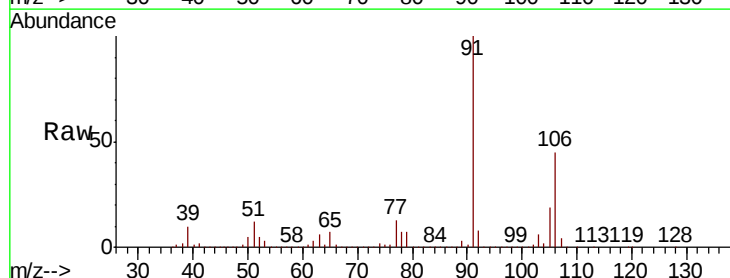


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

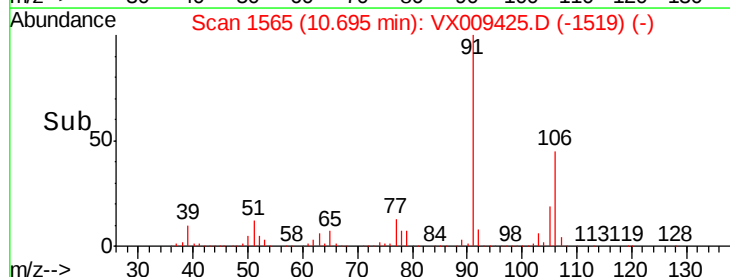
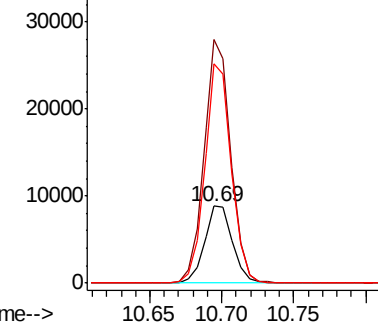


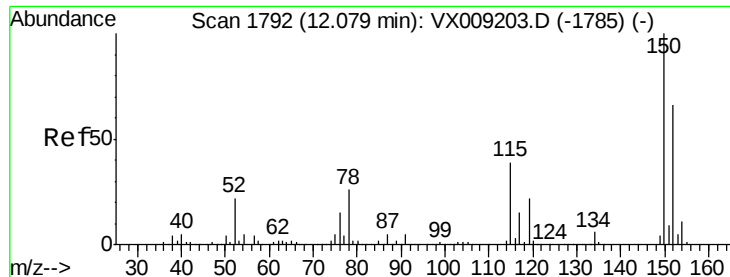
#70  
Styrene  
Concen: 1.908 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.02 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Tgt Ion:104 Resp: 12011  
Ion Ratio Lower Upper  
104 100  
78 300.1 41.0 61.4#  
103 269.6 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VX0  
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

ClientSampleId :

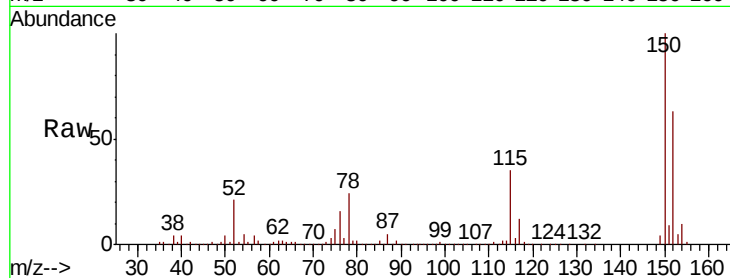
Tot Ion:152 Resp: 123273

Ion Ratio Lower Upper

152 100

115 58.1 41.2 123.6

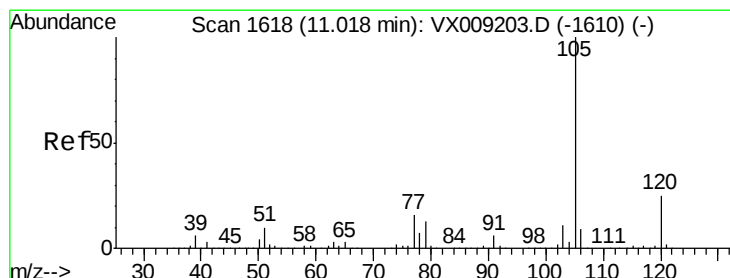
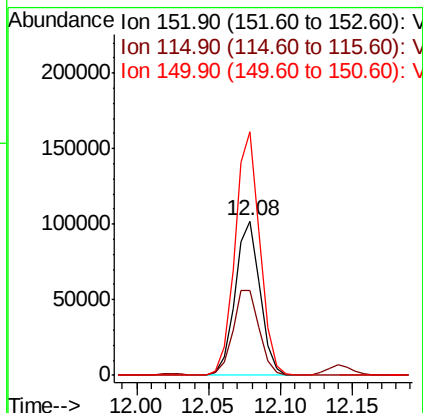
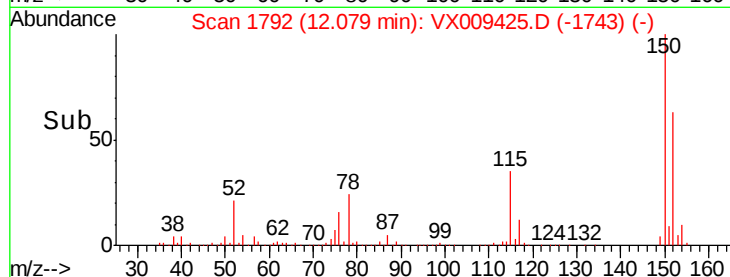
150 157.3 0.0 346.4



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: 14.134 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009425.D

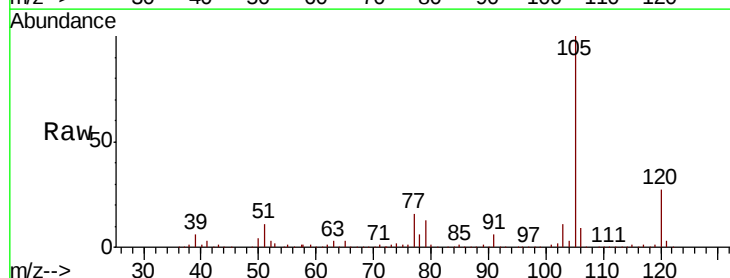
Acq: 09 May 2019 14:14

Tgt Ion:105 Resp: 126699

Ion Ratio Lower Upper

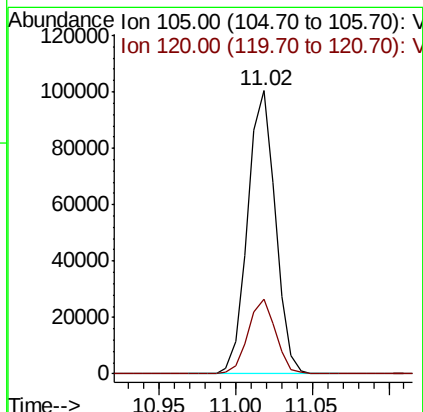
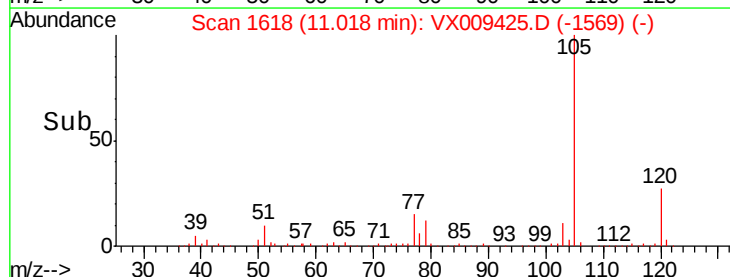
105 100

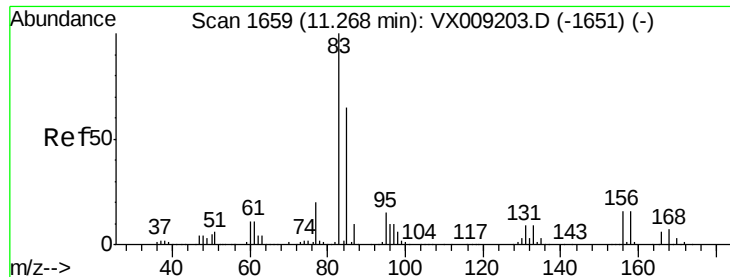
120 26.1 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.737 ug/l

RT: 11.32 min Scan# 1668

Delta R.T. 0.05 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

ClientSampled :

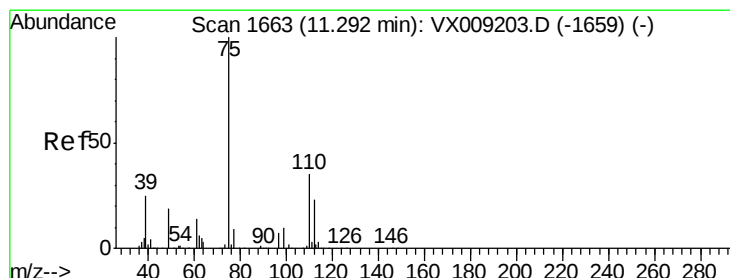
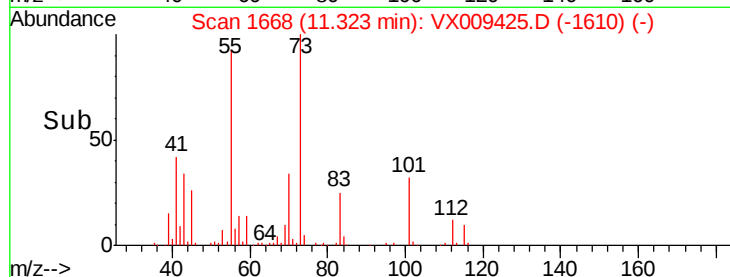
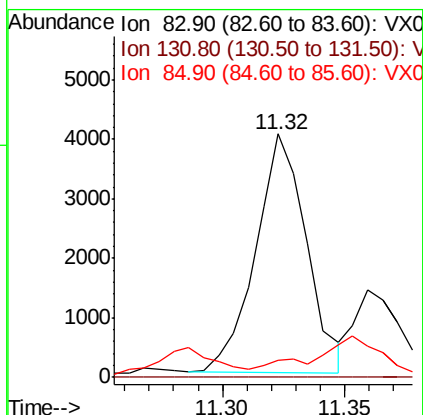
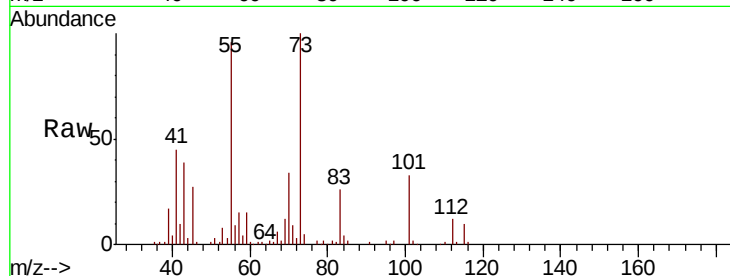
Tot Ion: 83 Resp: 5803

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 0.0 32.0 96.2#



#76

1,2,3-Trichloropropane

Concen: 0.797 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.07 min

Lab File: VX009425.D

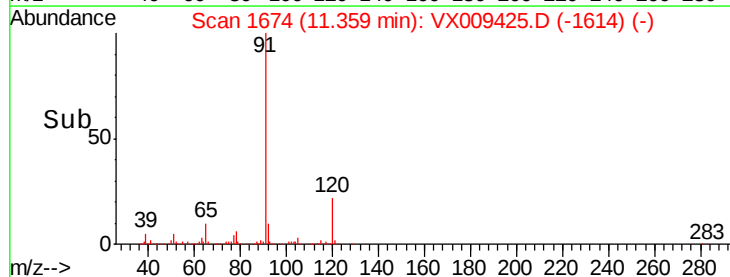
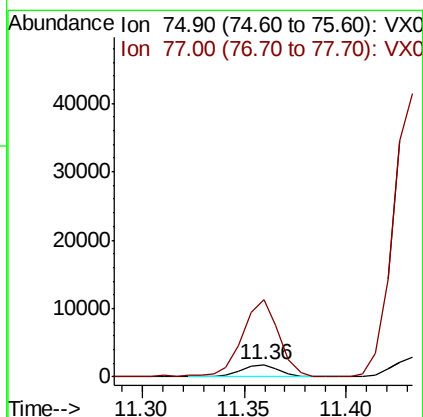
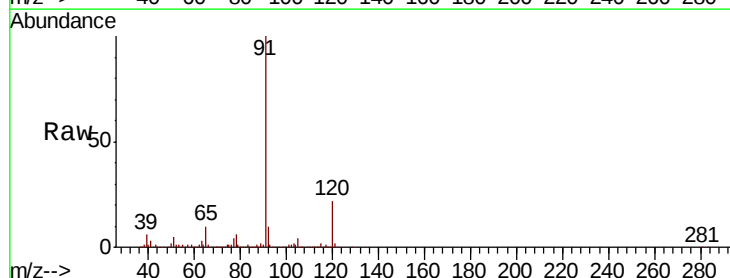
Acq: 09 May 2019 14:14

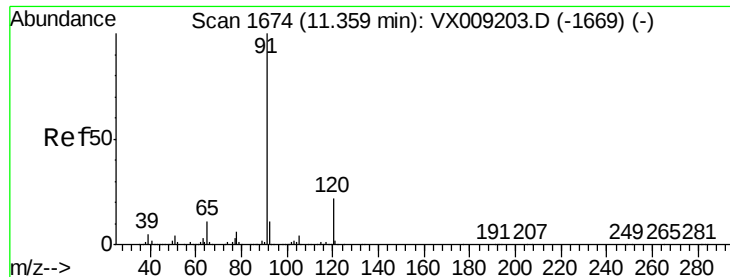
Tgt Ion: 75 Resp: 2278

Ion Ratio Lower Upper

75 100

77 624.8 22.1 66.1#





#78

n-propylbenzene

Concen: 33.578 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

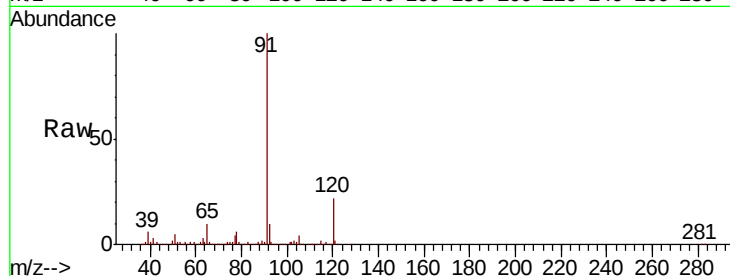
ClientSampleId :

Tot Ion: 91 Resp: 343762

Ion Ratio Lower Upper

91 100

120 22.0 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

300000

200000

100000

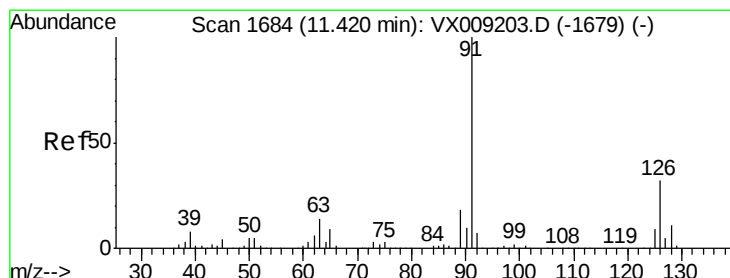
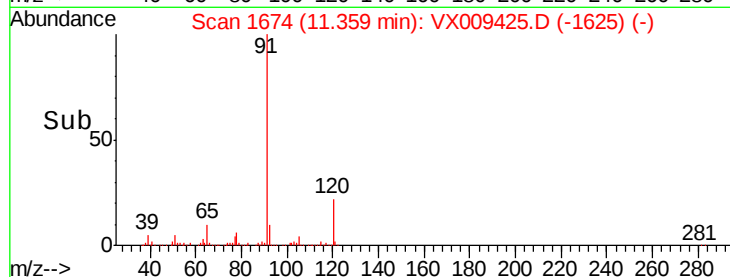
0

11.36

11.35

11.40

Time-->



#79

2-Chlorotoluene

Concen: 11.211 ug/l

RT: 11.43 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VX009425.D

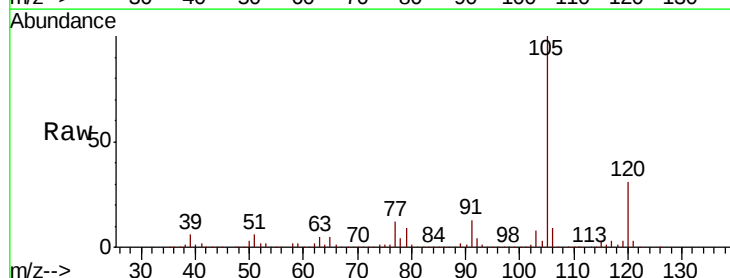
Acq: 09 May 2019 14:14

Tgt Ion: 91 Resp: 70813

Ion Ratio Lower Upper

91 100

126 0.0 16.3 48.9#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

300000

200000

100000

0

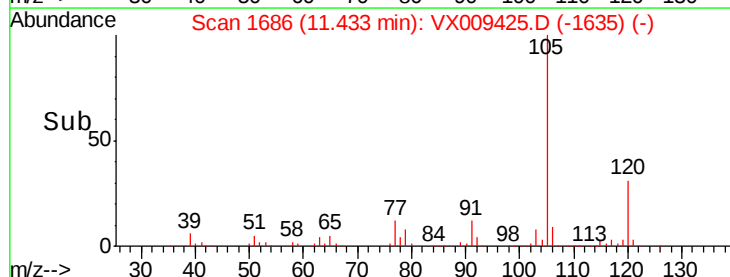
11.43

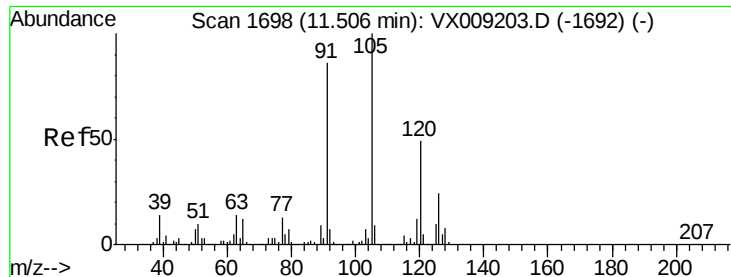
11.40

11.45

11.50

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 23.361 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

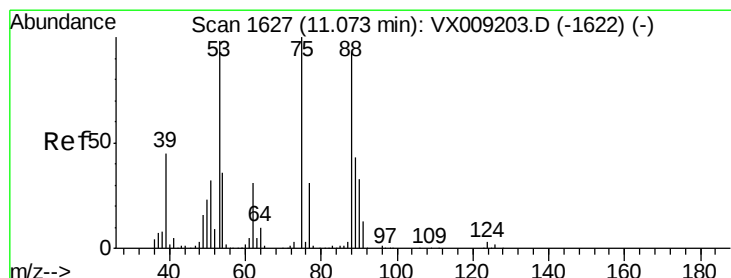
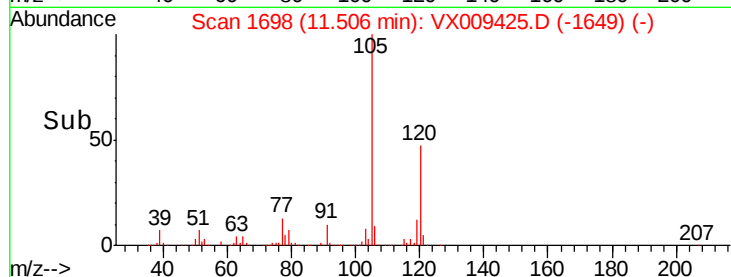
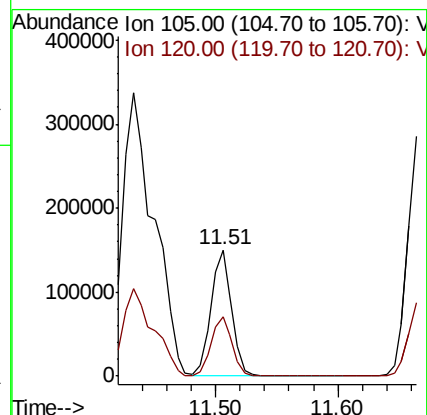
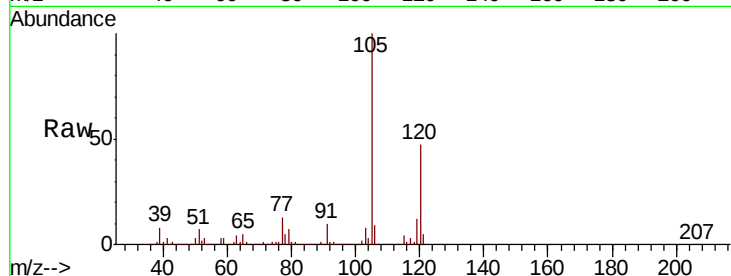
ClientSampleId :

Tot Ion:105 Resp: 176330

Ion Ratio Lower Upper

105 100

120 48.1 24.3 72.9



#81

trans-1,4-Dichloro-2-butene

Concen: 59.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

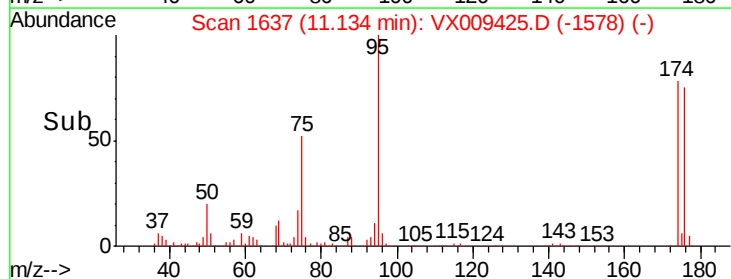
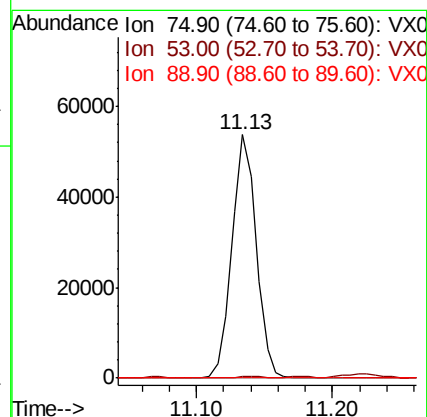
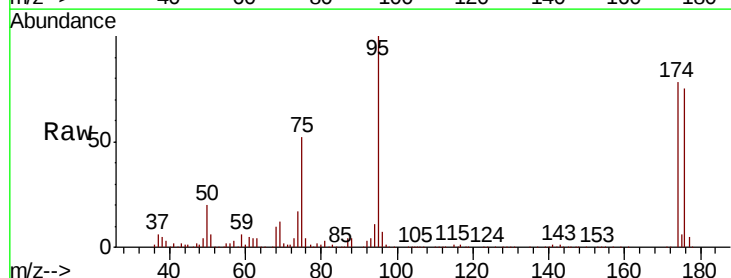
Tgt Ion: 75 Resp: 66738

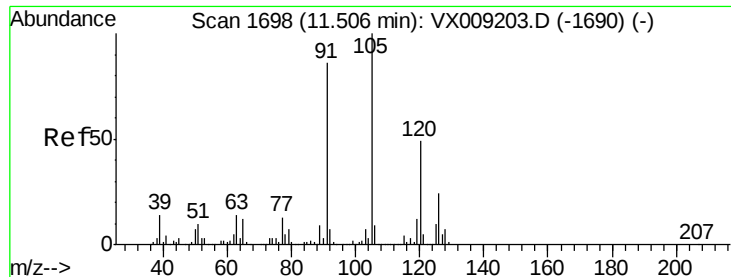
Ion Ratio Lower Upper

75 100

53 0.6 79.0 118.6#

89 0.0 34.7 52.1#





#82

4-Chlorotoluene

Concen: 2.531 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

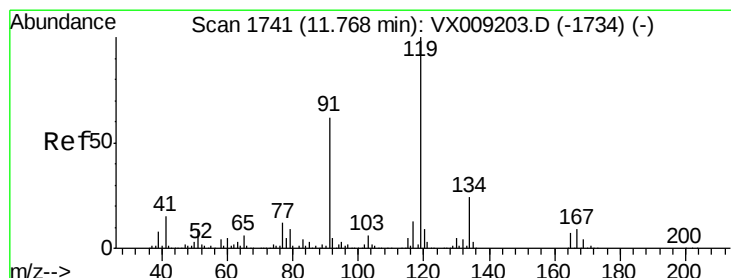
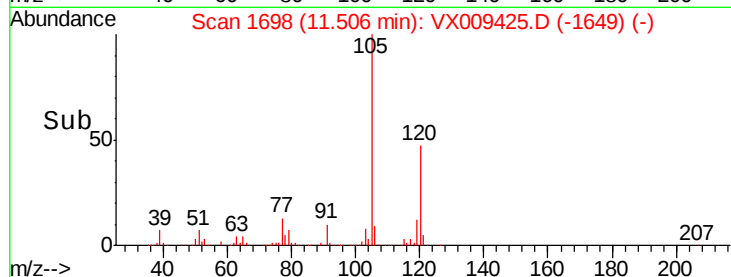
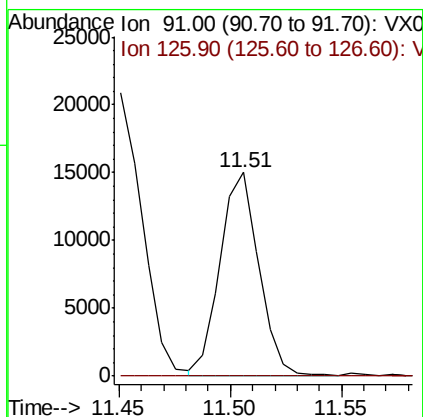
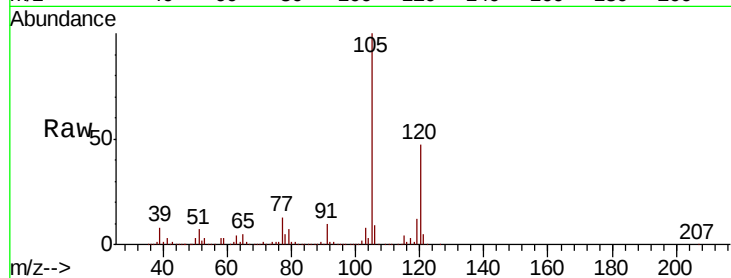
ClientSampled :

Tot Ion: 91 Resp: 18057

Ion Ratio Lower Upper

91 100

126 0.2 14.5 43.6#



#83

tert-Butylbenzene

Concen: 12.821 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.04 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

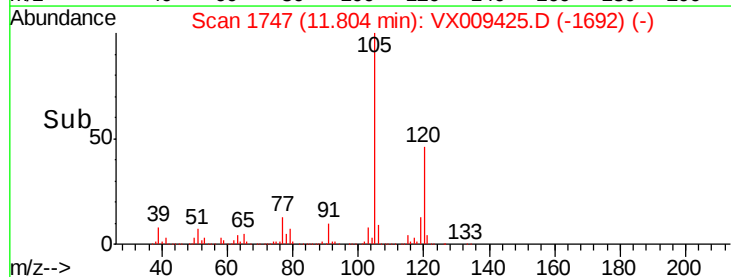
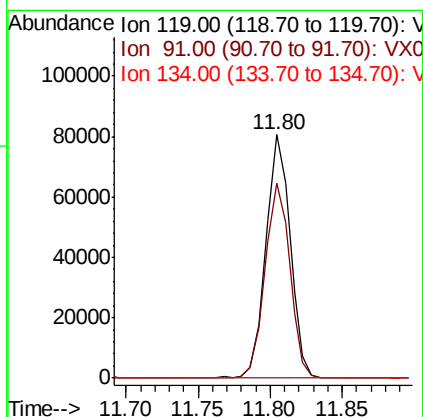
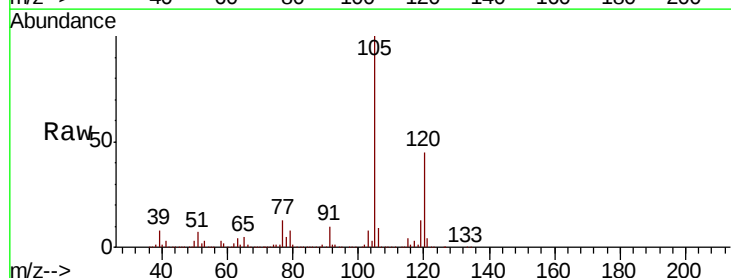
Tgt Ion: 119 Resp: 94139

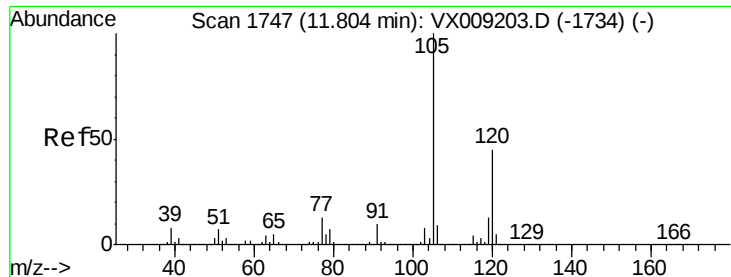
Ion Ratio Lower Upper

119 100

91 82.4 29.5 88.5

134 0.0 11.4 34.1#

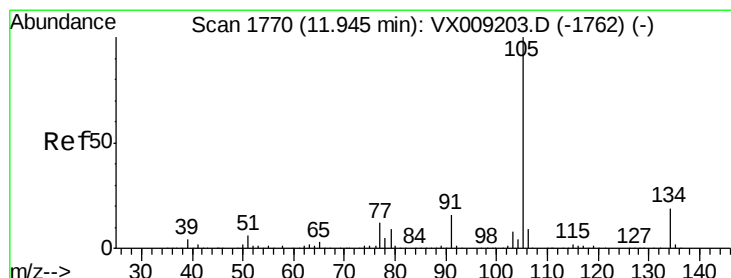
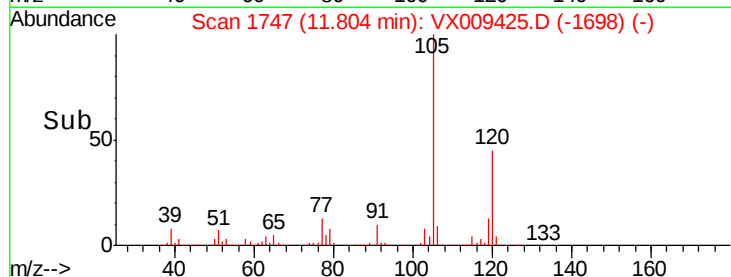
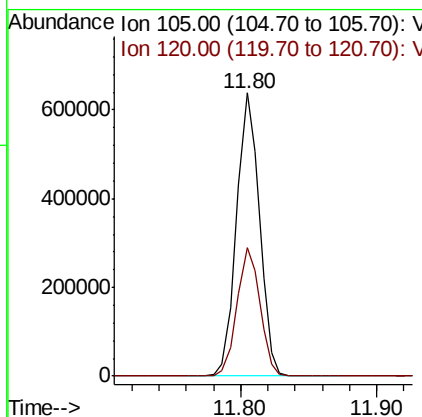
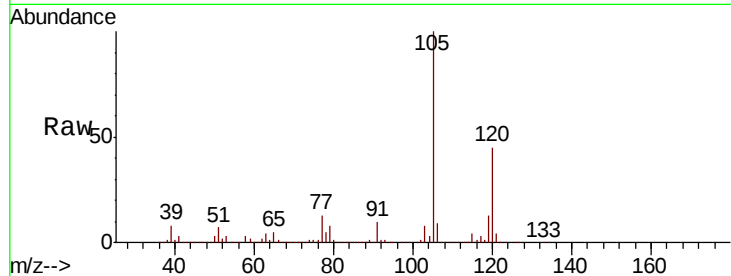




#84  
 1,2,4-Trimethylbenzene  
 Concen: 98.883 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

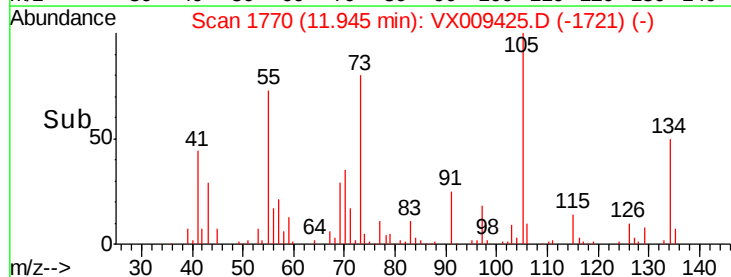
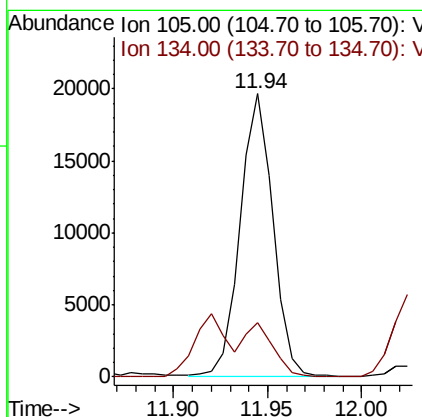
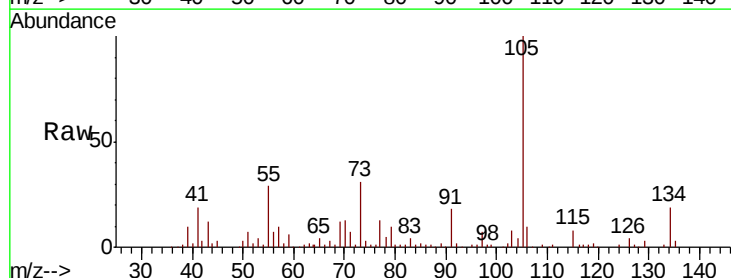
Instrument :  
 MSVOA\_X  
 ClientSampleId :

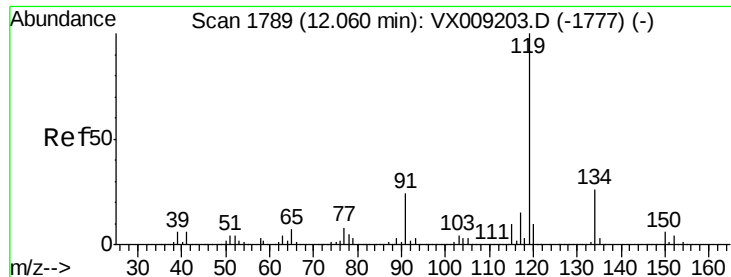
Tot Ion:105 Resp: 749156  
 Ion Ratio Lower Upper  
 105 100  
 120 45.3 22.0 66.0



#85  
 sec-Butylbenzene  
 Concen: 2.733 ug/l  
 RT: 11.94 min Scan# 1770  
 Delta R.T. 0.00 min  
 Lab File: VX009425.D  
 Acq: 09 May 2019 14:14

Tgt Ion:105 Resp: 23790  
 Ion Ratio Lower Upper  
 105 100  
 134 16.9 9.7 28.9





#86

p-Isopropyltoluene

Concen: 1.176 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

ClientSampled :

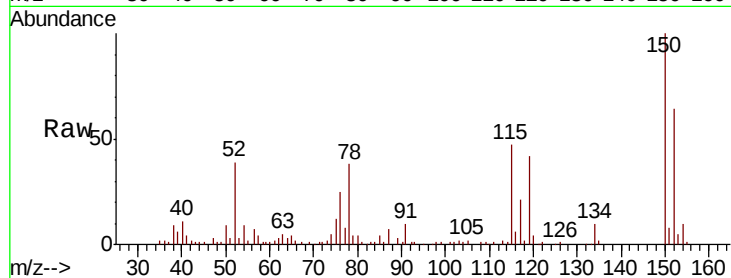
Tot Ion: 119 Resp: 9206

Ion Ratio Lower Upper

119 100

134 28.9 12.9 38.7

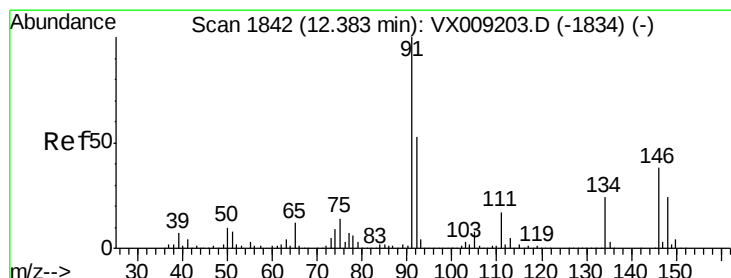
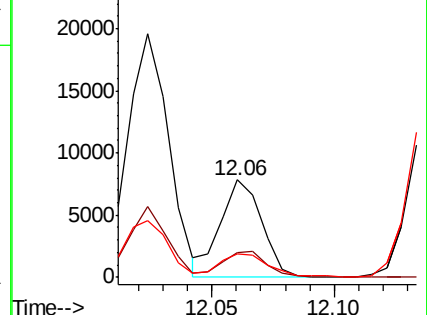
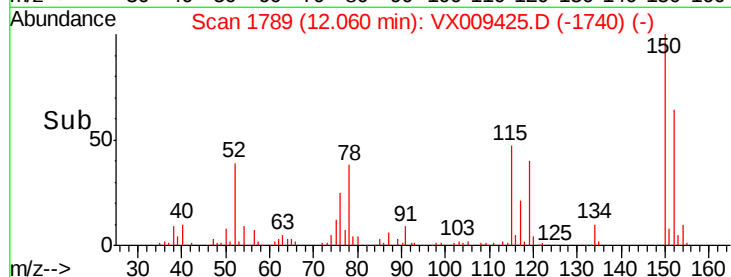
91 29.3 11.8 35.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 4.795 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

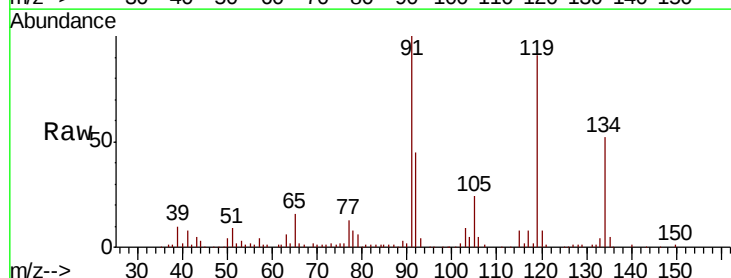
Tgt Ion: 91 Resp: 33919

Ion Ratio Lower Upper

91 100

92 33.8 26.5 79.5

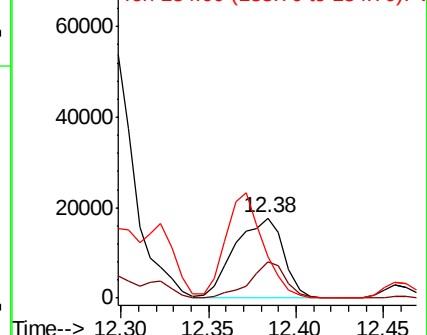
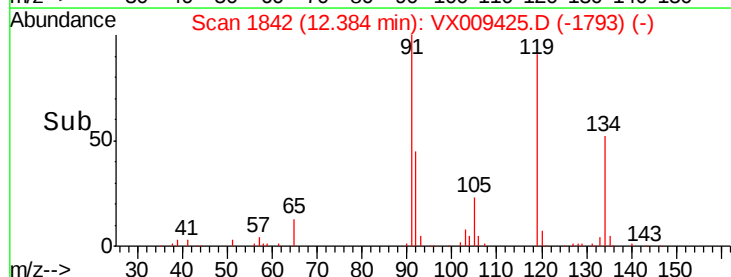
134 102.8 12.4 37.2#

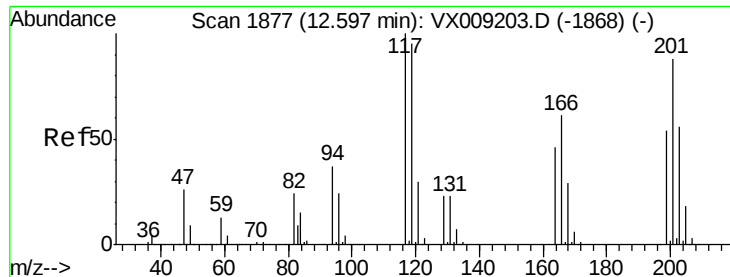


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 6.790 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

Instrument :

MSVOA\_X

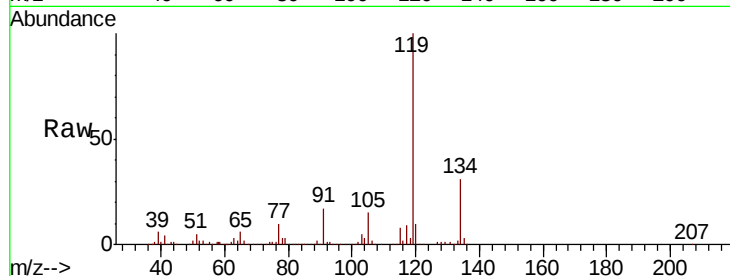
ClientSampleId :

Tot Ion:117 Resp: 9053

Ion Ratio Lower Upper

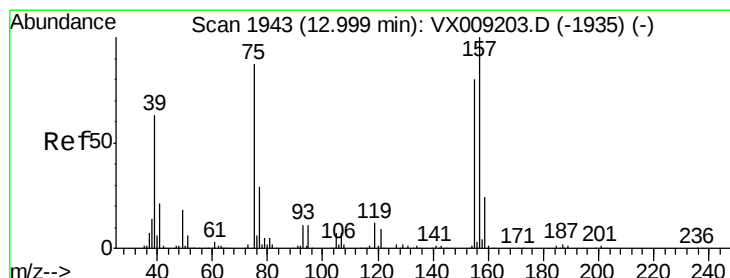
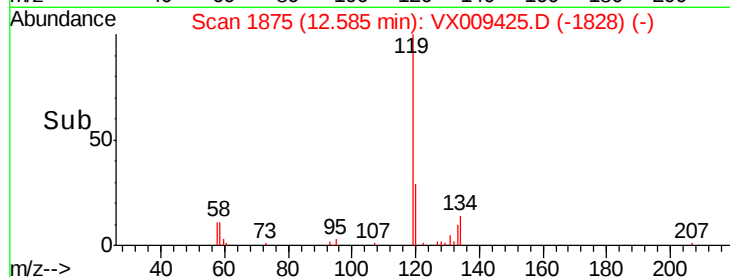
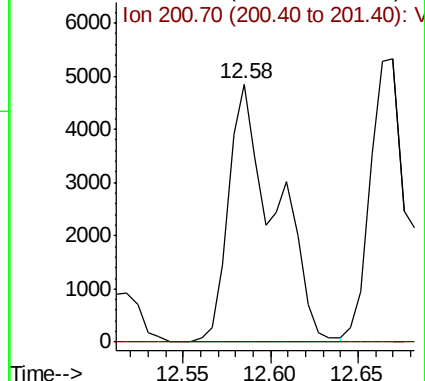
117 100

201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.964 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX009425.D

Acq: 09 May 2019 14:14

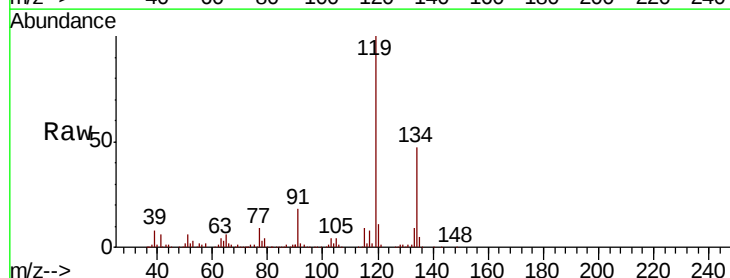
Tgt Ion: 75 Resp: 723

Ion Ratio Lower Upper

75 100

155 0.0 42.0 126.0#

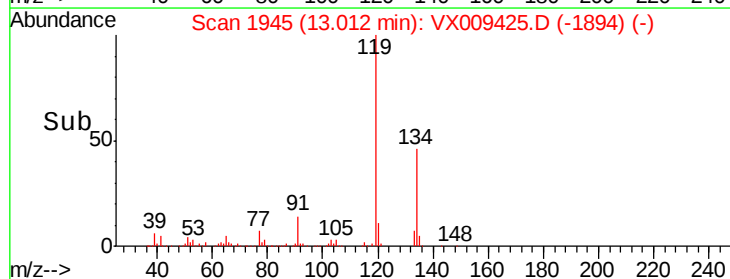
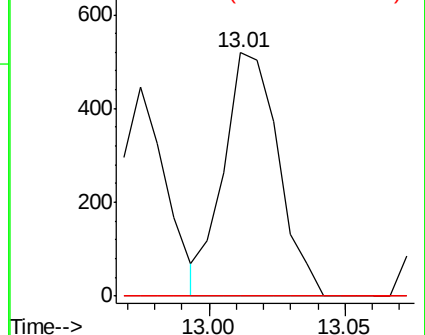
157 0.0 53.2 159.6#

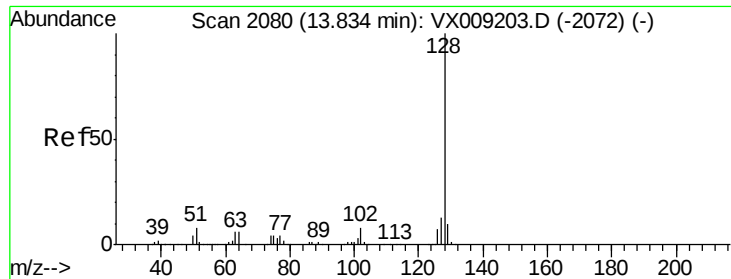


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

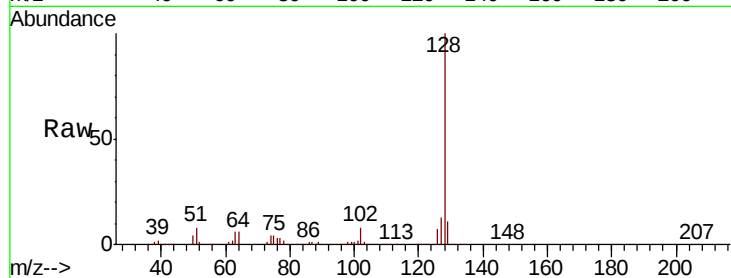




#95  
Naphthalene  
Concen: 24.609 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX009425.D  
Acq: 09 May 2019 14:14

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.6  | 10.4  | 15.6  |
| 129     | 10.9  | 8.6   | 13.0  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

