

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012519\  
 Data File : VX007220.D  
 Acq On : 25 Jan 2019 10:44  
 Operator : JC/SP  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 1/28/2019 12:05:17 PM

Quant Time: Jan 28 05:51:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jan 25 09:22:37 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.03  | 128  | 86115    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 475554   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 419131   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 167211   | 25.55    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 85.17%  |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 194445   | 27.91    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 93.03%  |
| 63) Toluene-d8            | 8.71   | 98    | 567406   | 30.33    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.10% |

## Target Compounds

|                               |      |     |         |         | Ovalue     |
|-------------------------------|------|-----|---------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 525477  | 78.375  | ug/l 98    |
| 3) Chloromethane              | 1.33 | 50  | 594959  | 85.527  | ug/l 99    |
| 4) Vinyl Chloride             | 1.41 | 62  | 700367  | 98.485  | ug/l 100   |
| 5) Bromomethane               | 1.64 | 94  | 726844  | 212.995 | ug/l 98    |
| 6) Chloroethane               | 1.71 | 64  | 538670  | 131.936 | ug/l 99    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 1236314 | 136.476 | ug/l 98    |
| 8) Diethyl Ether              | 2.19 | 74  | 476205  | 128.952 | ug/l 86    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 722147  | 138.810 | ug/l 97    |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 670695  | 136.109 | ug/l 91    |
| 11) Methyl Iodide             | 2.51 | 142 | 1138809 | 283.848 | ug/l 99    |
| 12) Methyl Acetate            | 2.78 | 43  | 1106271 | 111.335 | ug/l 95    |
| 13) Acrolein                  | 2.30 | 56  | 396202  | 431.568 | ug/l 99    |
| 14) Acrylonitrile             | 3.15 | 53  | 2071803 | 510.227 | ug/l 99    |
| 15) Acetone                   | 2.45 | 58  | 577575  | 425.520 | ug/l 98    |
| 16) Carbon Disulfide          | 2.57 | 76  | 1719547 | 118.978 | ug/l 100   |
| 17) Allyl chloride            | 2.73 | 41  | 1213474 | 110.744 | ug/l 92    |
| 18) Methylene Chloride        | 2.85 | 84  | 736119  | 128.456 | ug/l 94    |
| 19) trans-1,2-Dichloroethene  | 3.17 | 96  | 731086  | 138.870 | ug/l 90    |
| 20) Diisopropyl ether         | 3.87 | 45  | 2172414 | 116.280 | ug/l # 94  |
| 21) 1,1-Dichloroethane        | 3.70 | 63  | 1194875 | 116.078 | ug/l 98    |
| 22) cis-1,2-Dichloroethene    | 4.60 | 96  | 793810  | 136.312 | ug/l 88    |
| 23) tert-Butyl Alcohol        | 3.10 | 59  | 870890  | 464.670 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.21 | 73  | 2394072 | 132.207 | ug/l 98    |
| 25) Chloroform                | 5.22 | 83  | 1273060 | 131.407 | ug/l 98    |
| 26) Cyclohexane               | 5.57 | 56  | 1047507 | 118.576 | ug/l # 88  |
| 29) 1,1-Dichloropropene       | 5.80 | 75  | 929561  | 132.094 | ug/l 96    |
| 30) 2-Butanone                | 4.71 | 43  | 2662666 | 465.389 | ug/l 96    |
| 31) 2,2-Dichloropropane       | 4.59 | 77  | 970822  | 125.739 | ug/l 98    |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 1120378 | 138.500 | ug/l 97    |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 1009367 | 142.075 | ug/l 99    |
| 34) Benzene                   | 6.14 | 78  | 2802135 | 131.219 | ug/l 97    |
| 35) Methacrylonitrile         | 5.06 | 41  | 562957  | 105.879 | ug/l 93    |
| 36) 1,2-Dichloroethane        | 6.20 | 62  | 964628  | 125.389 | ug/l 99    |
| 37) Trichloroethene           | 7.21 | 130 | 835113  | 148.464 | ug/l 94    |
| 38) Methylcyclohexane         | 7.46 | 83  | 1159854 | 138.824 | ug/l 89    |
| 39) 1,2-Dichloropropane       | 7.52 | 63  | 715869  | 125.815 | ug/l 96    |
| 40) Dibromomethane            | 7.66 | 93  | 513809  | 139.326 | ug/l 98    |

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 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

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 1/28/2019 12:05:17 PM

Quant Time: Jan 28 05:51:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jan 25 09:22:37 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 41) Bromodichloromethane       | 7.90  | 83   | 968592   | 136.240  | ug/l  | 97       |
| 42) Vinyl Acetate              | 3.83  | 43   | 9425210  | 569.409  | ug/l  | 96       |
| 43) Ethyl Acetate              | 4.86  | 43   | 1002411  | 106.211  | ug/l  | 99       |
| 44) Isopropyl Acetate          | 6.46  | 43   | 1639025  | 116.373  | ug/l  | 99       |
| 45) 1,4-Dioxane                | 7.76  | 88   | 370237   | 2231.245 | ug/l  | 90       |
| 46) Methyl methacrylate        | 7.77  | 41   | 836820   | 114.520  | ug/l  | 93       |
| 47) n-amyl Acetate             | 10.90 | 43   | 1536444  | 118.240  | ug/l  | 96       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 1099604  | 135.197  | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene    | 8.44  | 75   | 1177798  | 133.597  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 751213   | 134.545  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 9.18  | 69   | 1131522  | 127.698  | ug/l  | 93       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 1199371  | 127.329  | ug/l  | 99       |
| 53) Dibromochloromethane       | 9.59  | 129  | 858085   | 148.133  | ug/l  | 99       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 827578   | 142.229  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether  | 8.32  | 63   | 3108944  | 664.929  | ug/l  | 98       |
| 56) Bromoform                  | 10.86 | 173  | 689491   | 142.528  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone       | 8.65  | 43   | 5323334  | 565.667  | ug/l  | 97       |
| 59) 2-Hexanone                 | 9.50  | 43   | 4174422  | 538.400  | ug/l  | 99       |
| 61) Tetrachloroethene          | 9.34  | 164  | 804478   | 157.721  | ug/l  | 97       |
| 62) Toluene                    | 8.79  | 91   | 3150963  | 143.048  | ug/l  | 100      |
| 64) Chlorobenzene              | 10.14 | 112  | 2057144  | 144.612  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 780821   | 150.995  | ug/l  | 99       |
| 66) Ethyl Benzene              | 10.25 | 91   | 3432535  | 142.739  | ug/l  | 96       |
| 67) m/p-Xylenes                | 10.36 | 106  | 2740957  | 292.732  | ug/l  | 93       |
| 68) o-Xylene                   | 10.70 | 106  | 1324112  | 146.704  | ug/l  | 94       |
| 69) Styrene                    | 10.71 | 104  | 2221434  | 146.369  | ug/l  | 98       |
| 70) Isopropylbenzene           | 11.02 | 105  | 3508207  | 145.156  | ug/l  | 97       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 1151341  | 128.256  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane     | 11.30 | 75   | 1051514m | 128.575  | ug/l  |          |
| 73) Bromobenzene               | 11.26 | 156  | 966648   | 145.501  | ug/l  | 94       |
| 74) n-propylbenzene            | 11.36 | 91   | 4007026  | 140.909  | ug/l  | 96       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 2334896  | 134.628  | ug/l  | 95       |
| 76) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 2997227  | 143.729  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 385882   | 143.511  | ug/l  | 94       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 2811403  | 139.462  | ug/l  | 97       |
| 79) tert-butylbenzene          | 12.07 | 119  | 3265188  | 147.538  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 2999851  | 141.059  | ug/l  | 97       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 3597322  | 146.138  | ug/l  | 98       |
| 82) p-Isopropyltoluene         | 12.07 | 119  | 3265188  | 147.538  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 1765072  | 143.674  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene        | 12.10 | 146  | 1778701  | 142.671  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.39 | 91   | 2975557  | 148.030  | ug/l  | 98       |
| 86) Hexachloroethane           | 12.60 | 117  | 571810   | 156.856  | ug/l  | 95       |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 1793225  | 143.592  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 256997   | 123.890  | ug/l  | 84       |
| 89) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 1283216  | 137.743  | ug/l  | 99       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 585953   | 127.404  | ug/l  | 99       |
| 91) Naphthalene                | 13.83 | 128  | 3843799  | 132.695  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 1252524  | 131.117  | ug/l  | 99       |

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Acq On : 25 Jan 2019 10:44  
Operator : JC/SP  
Sample : VSTDICC150  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

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1/28/2019 12:05:17 PM

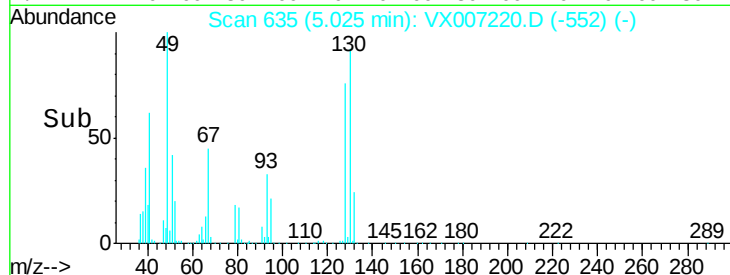
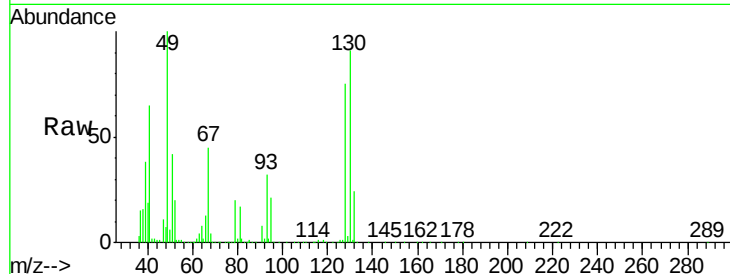
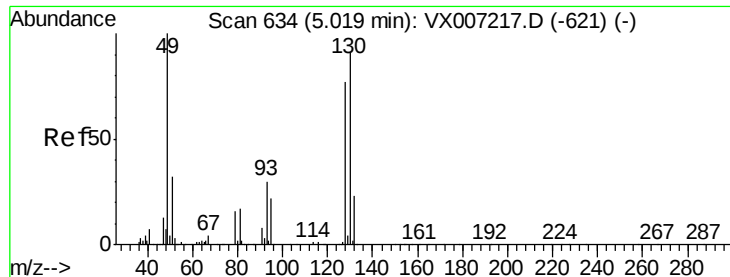
Quant Time: Jan 28 05:51:58 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jan 25 09:22:37 2019  
Response via : Initial Calibration

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

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





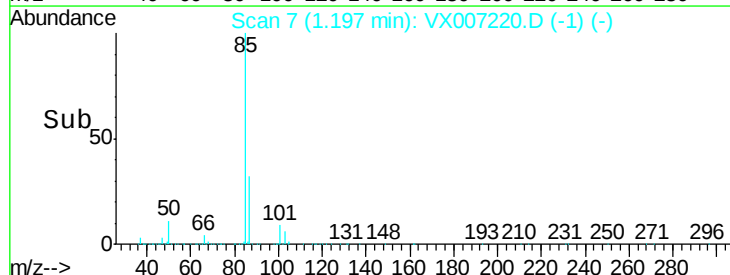
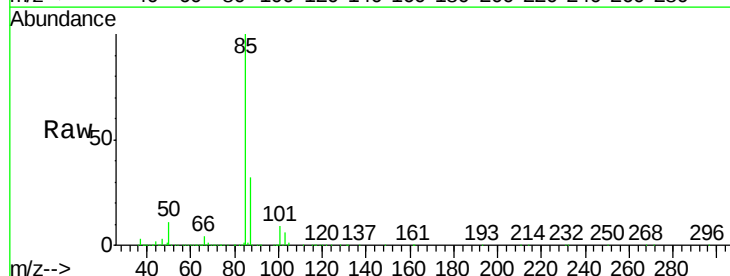
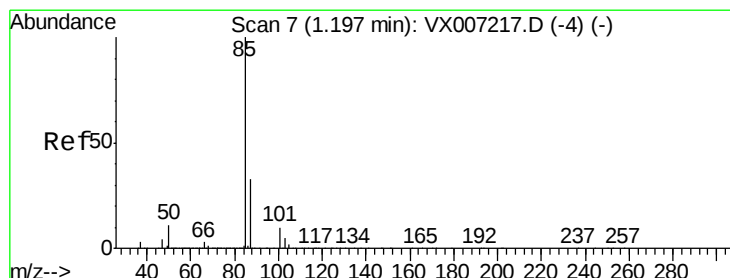
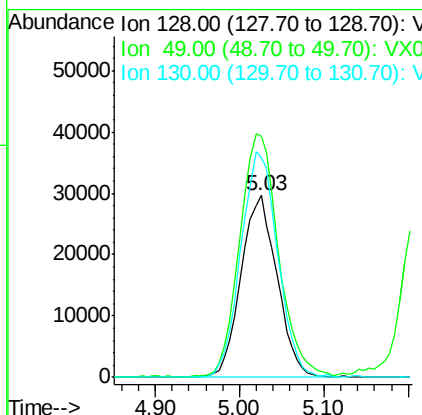
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 5.03 min Scan# 635  
Delta R.T. 0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 143.2 | 0.0   | 429.5 |
| 130     | 126.7 | 0.0   | 325.8 |

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

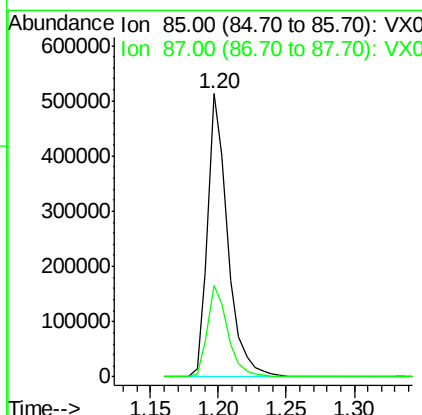
Manual Integrations  
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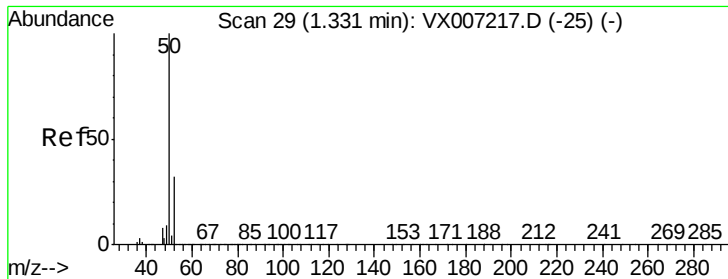
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#2  
Dichlorodifluoromethane  
Concen: 78.375 ug/l  
RT: 1.20 min Scan# 7  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.1  | 16.5  | 49.5  |





#3

Chloromethane

Concen: 85.527 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 594959

Ion Ratio Lower Upper

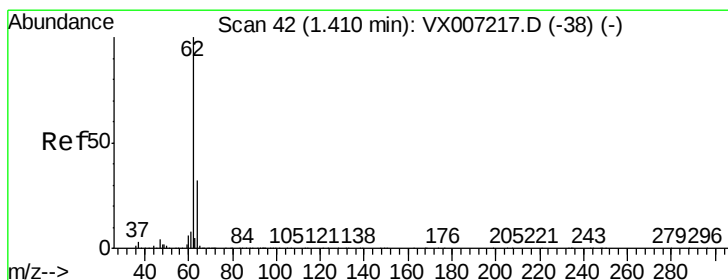
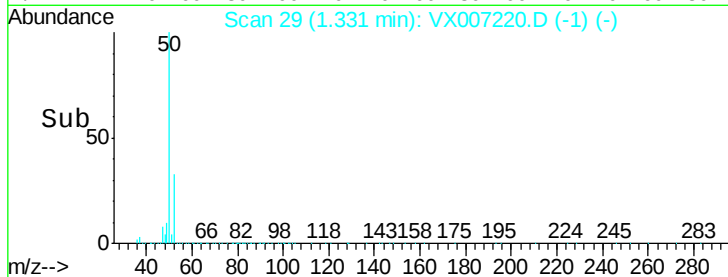
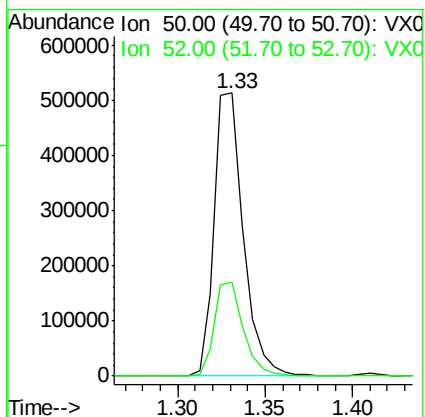
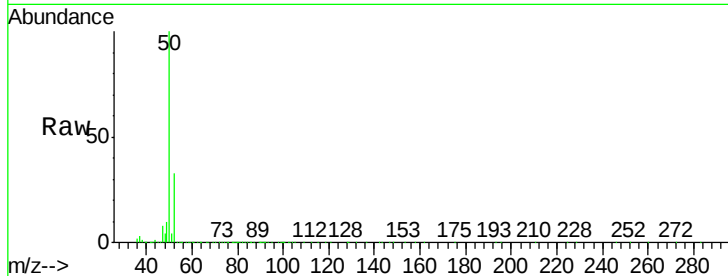
50 100

52 32.9 26.1 39.1

Manual Integrations  
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1/28/2019 12:05:17 PM



#4

Vinyl Chloride

Concen: 98.485 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.01 min

Lab File: VX007220.D

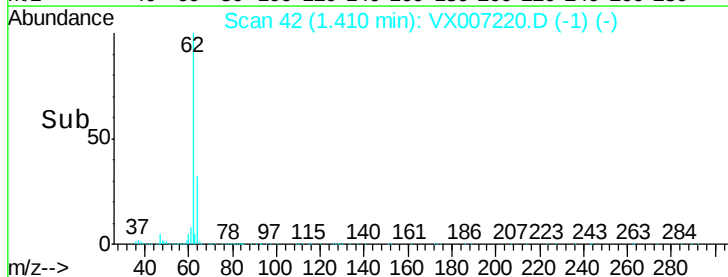
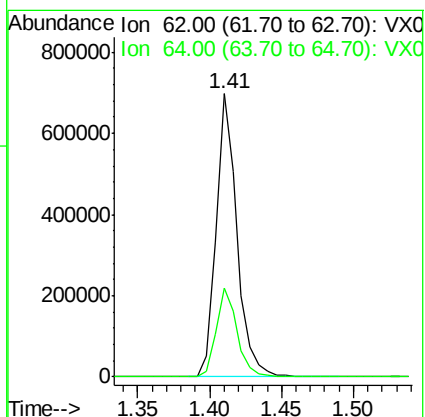
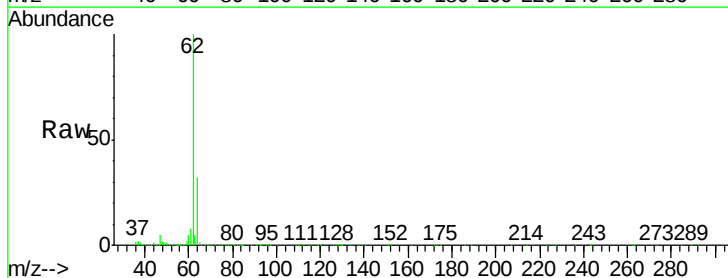
Acq: 25 Jan 2019 10:44

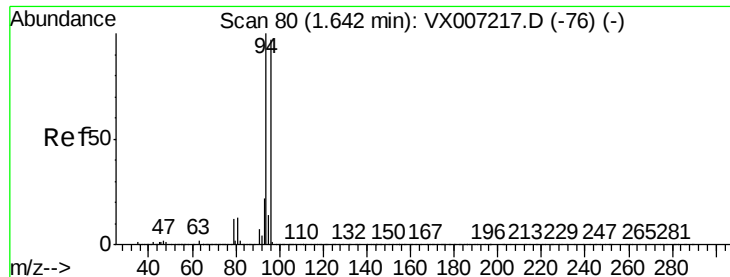
Tgt Ion: 62 Resp: 700367

Ion Ratio Lower Upper

62 100

64 31.6 25.2 37.8





#5

Bromomethane

Concen: 212.995 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 726844

Ion Ratio Lower Upper

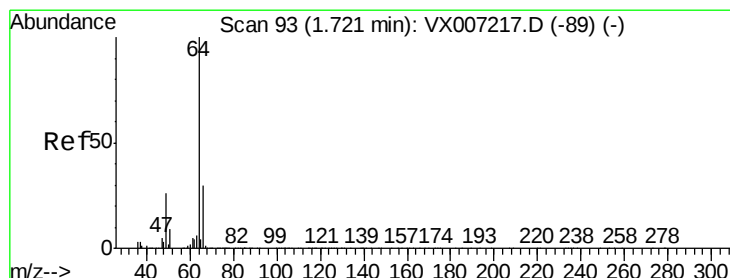
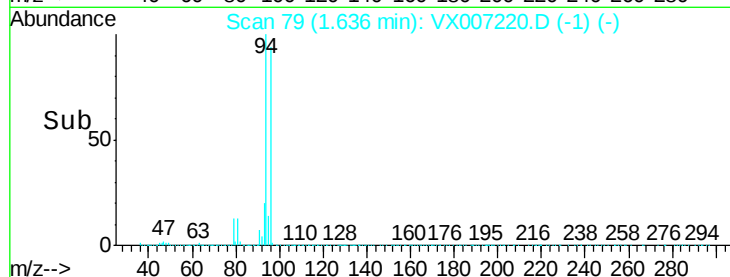
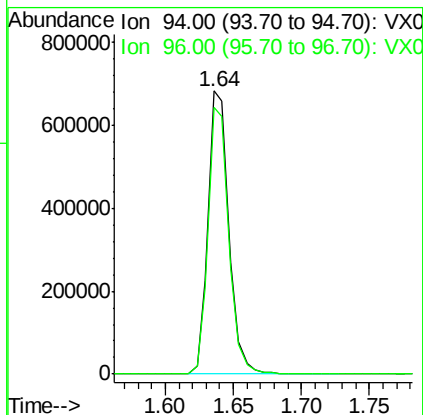
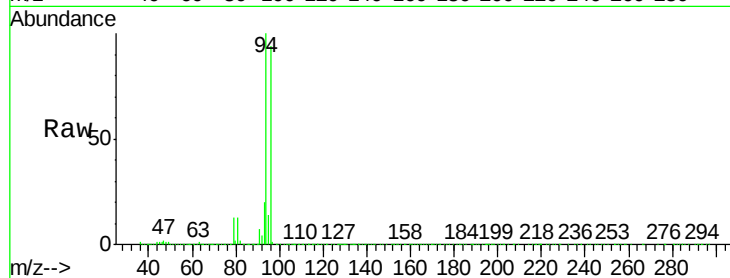
94 100

96 94.1 73.8 110.8

Manual Integrations  
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#6

Chloroethane

Concen: 131.936 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX007220.D

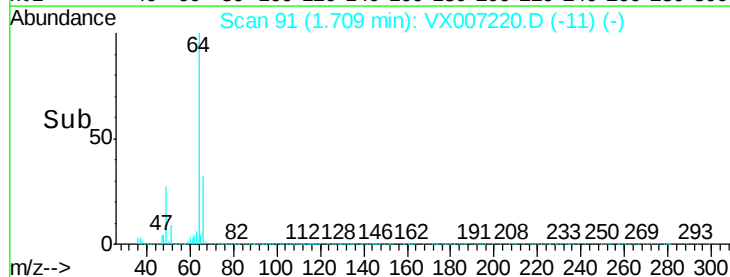
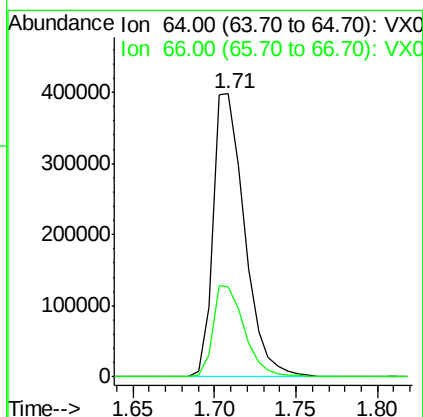
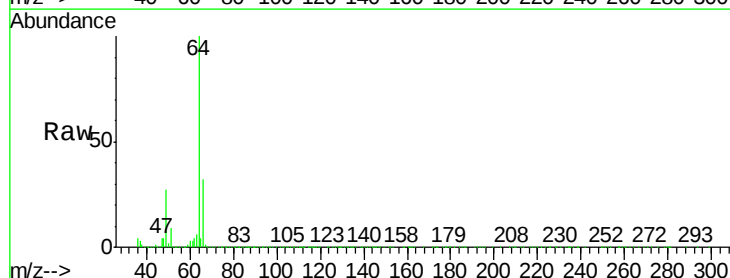
Acq: 25 Jan 2019 10:44

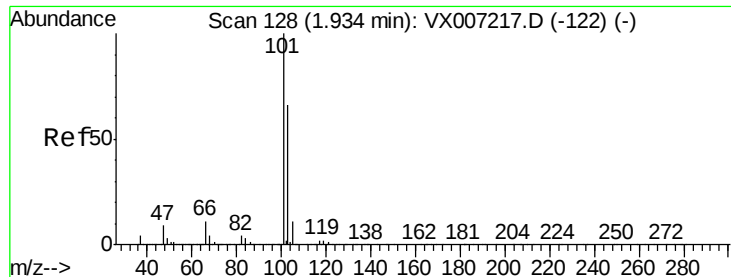
Tgt Ion: 64 Resp: 538670

Ion Ratio Lower Upper

64 100

66 31.8 26.0 39.0





#7

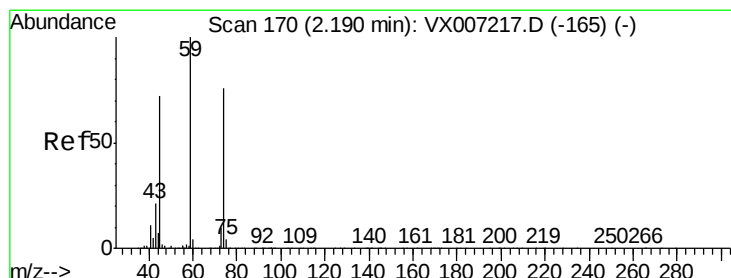
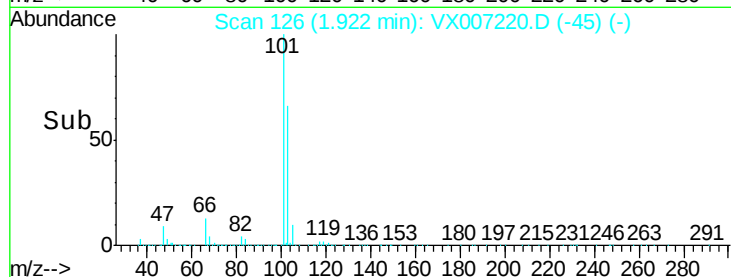
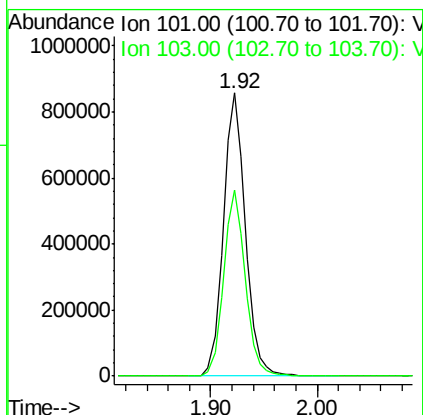
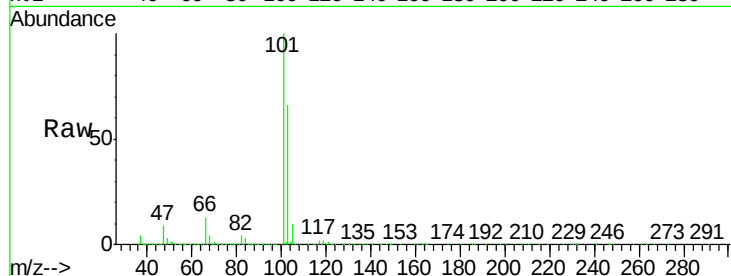
Trichlorofluoromethane  
Concen: 136.476 ug/l  
RT: 1.92 min Scan# 126  
Delta R.T. -0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tot Ion:101 Resp: 1236314  
Ion Ratio Lower Upper  
101 100  
103 65.7 51.1 76.7

Manual Integrations  
APPROVED

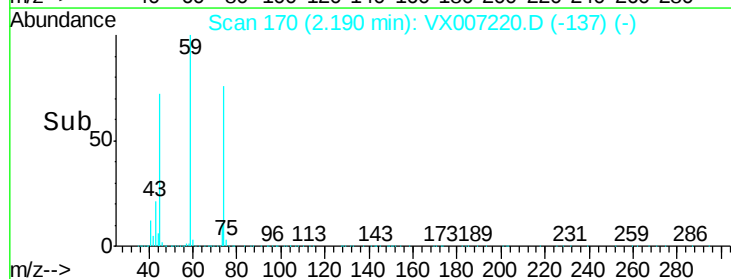
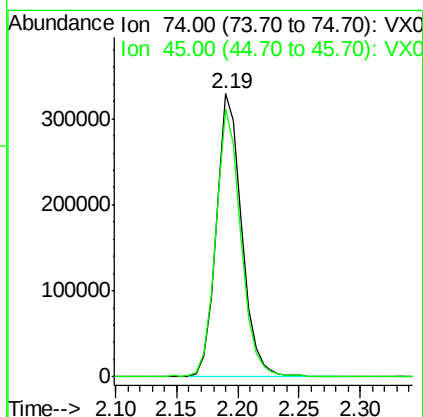
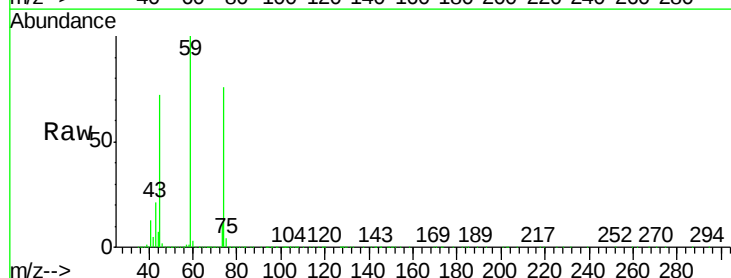
MMDadoda  
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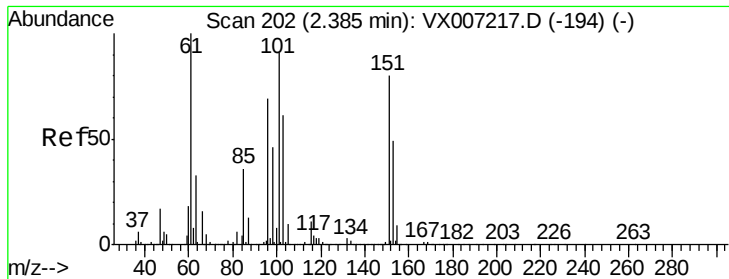


#8

Diethyl Ether  
Concen: 128.952 ug/l  
RT: 2.19 min Scan# 170  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Tgt Ion: 74 Resp: 476205  
Ion Ratio Lower Upper  
74 100  
45 93.8 21.6 194.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 138.810 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

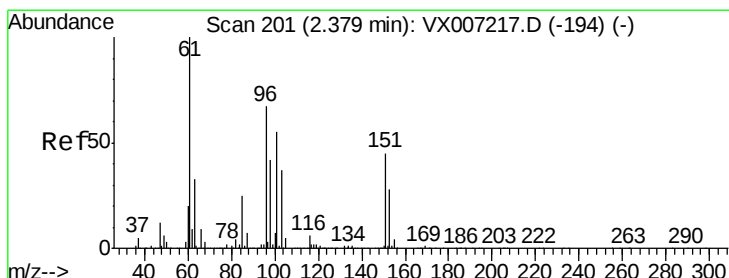
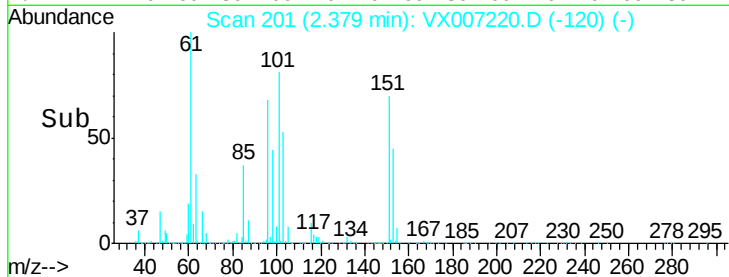
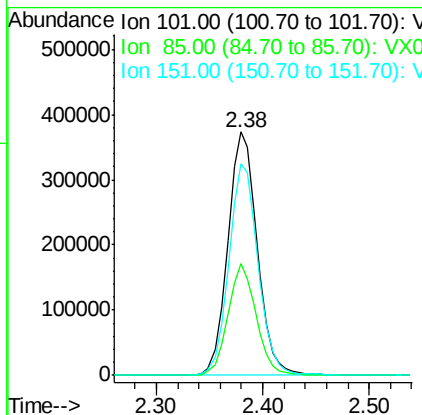
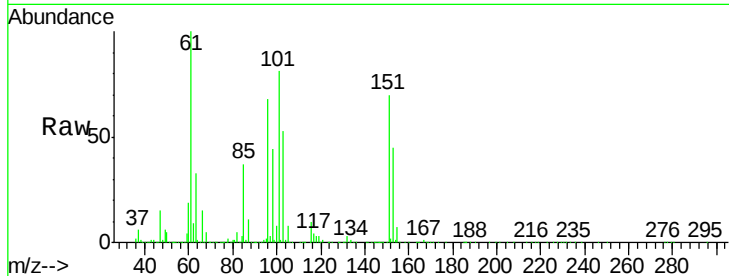
ClientSampleId :

VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 722147 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 44.2  | 0.0   | 88.0   |
| 151       | 86.7  | 0.0   | 164.8  |

Manual Integrations  
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#10

1,1-Dichloroethene

Concen: 136.109 ug/l

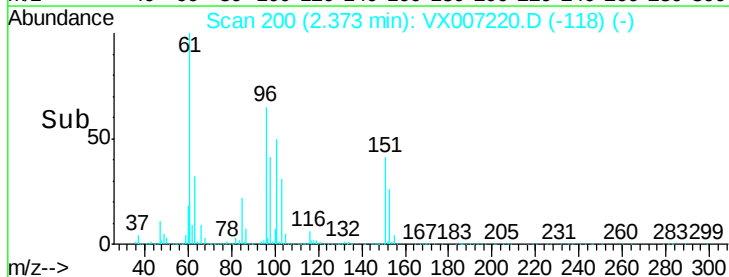
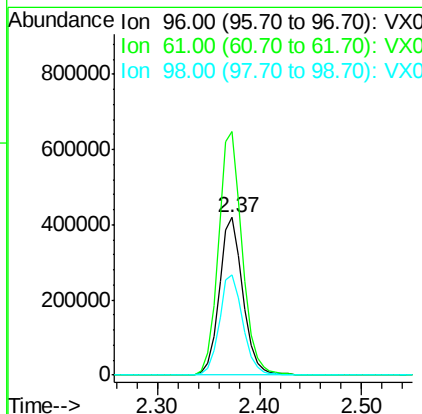
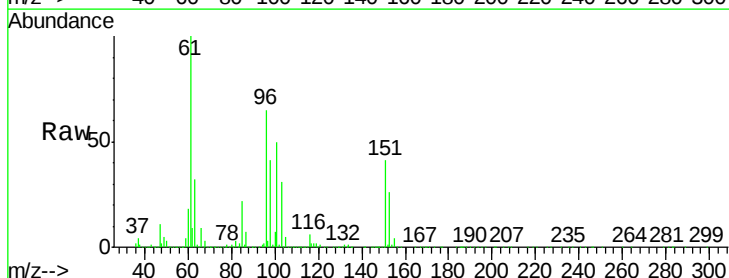
RT: 2.37 min Scan# 200

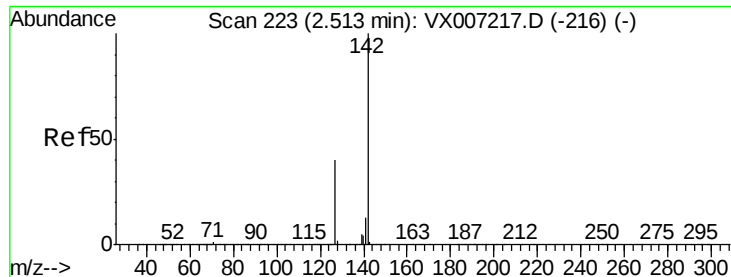
Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 670695 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 154.8 | 137.9 | 206.9  |
| 98        | 63.8  | 51.0  | 76.4   |





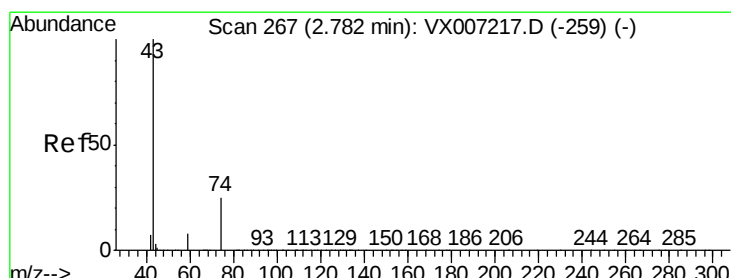
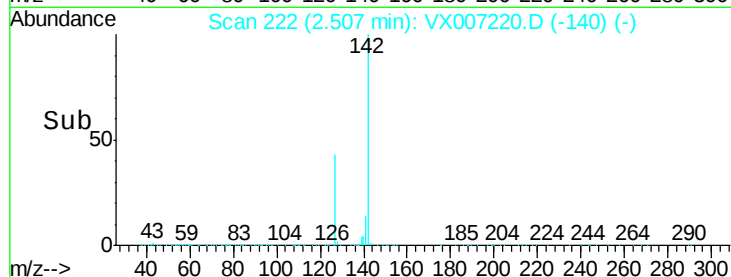
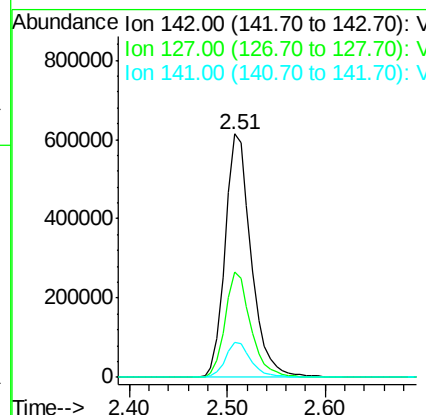
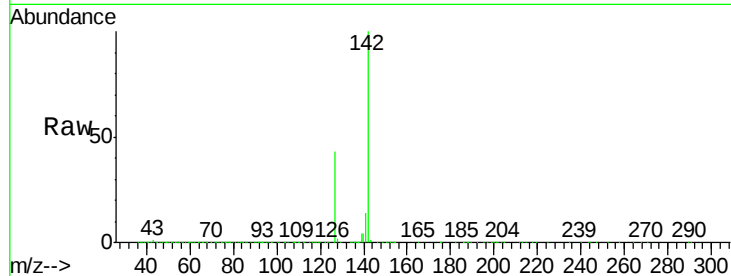
#11  
Methyl Iodide  
Concen: 283.848 ug/l  
RT: 2.51 min Scan# 222  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 43.1  | 21.6  | 64.8  |
| 141     | 14.4  | 7.5   | 22.6  |

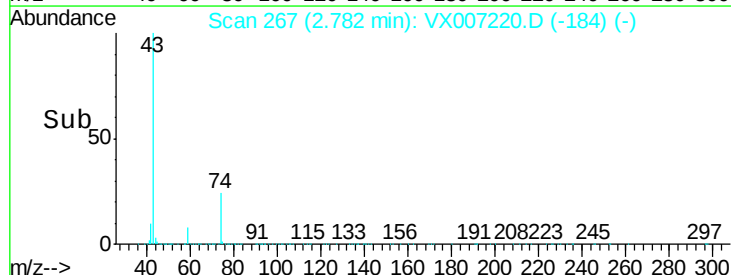
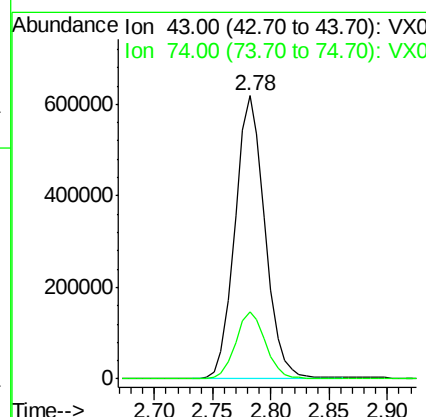
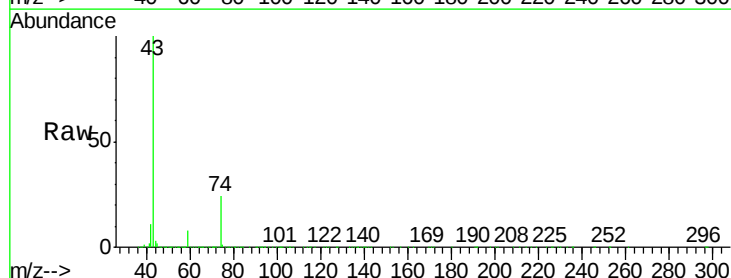
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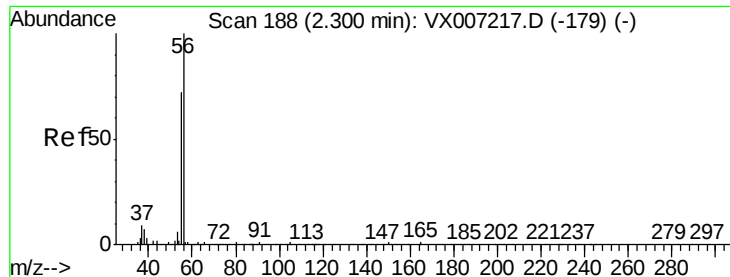
MMDadoda  
1/28/2019 12:05:17 PM



#12  
Methyl Acetate  
Concen: 111.335 ug/l  
RT: 2.78 min Scan# 267  
Delta R.T. 0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 23.7  | 17.0  | 25.6  |





#13

Acrolein

Concen: 431.568 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 396202

Ion Ratio Lower Upper

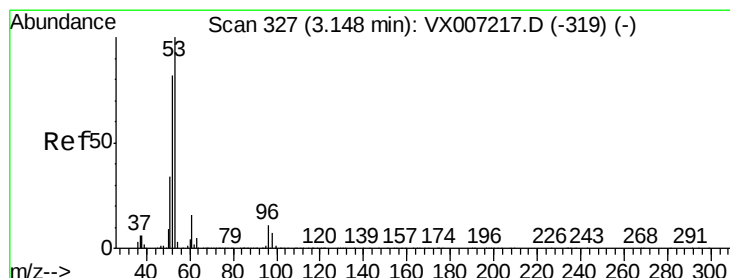
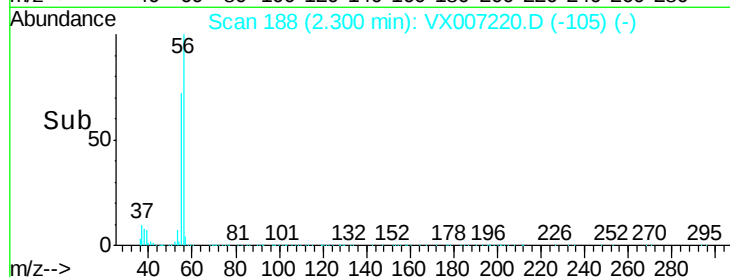
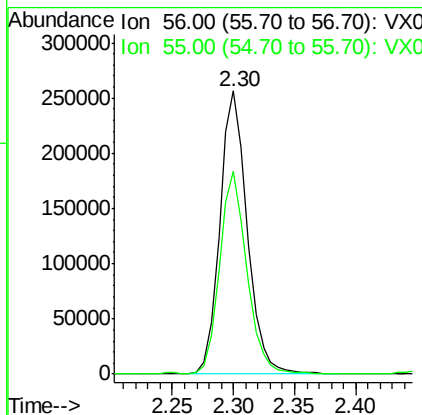
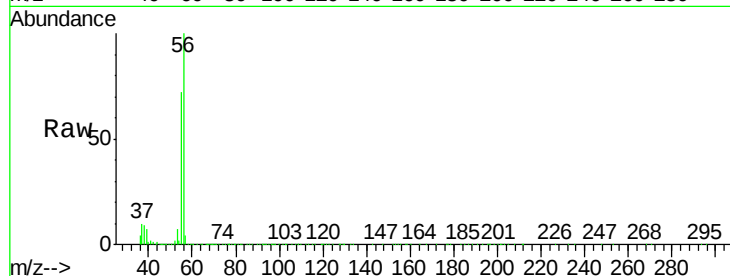
56 100

55 71.7 57.9 86.9

Manual Integrations  
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#14

Acrylonitrile

Concen: 510.227 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

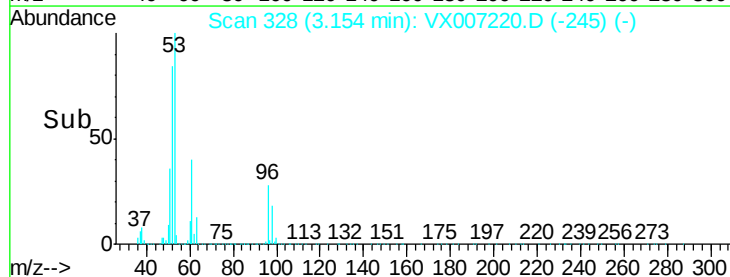
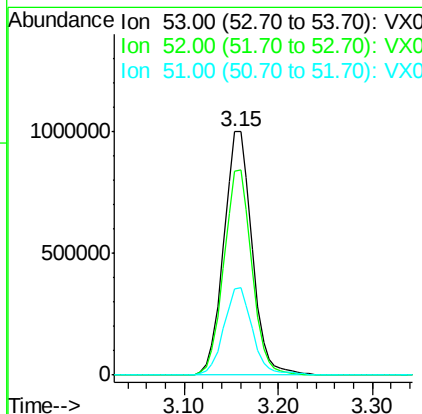
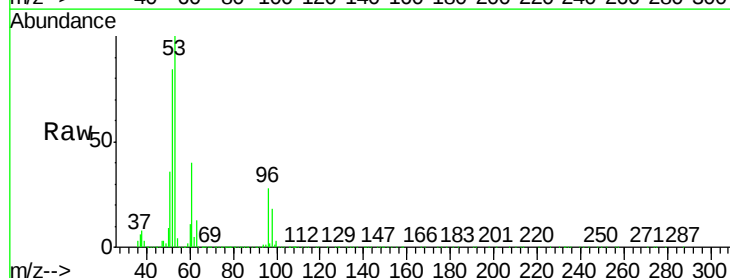
Tgt Ion: 53 Resp: 2071803

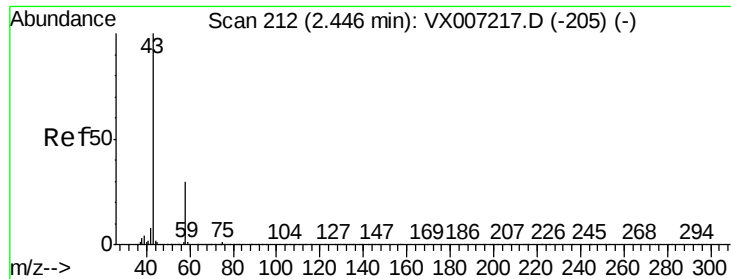
Ion Ratio Lower Upper

53 100

52 83.7 41.5 124.6

51 36.5 18.0 54.0





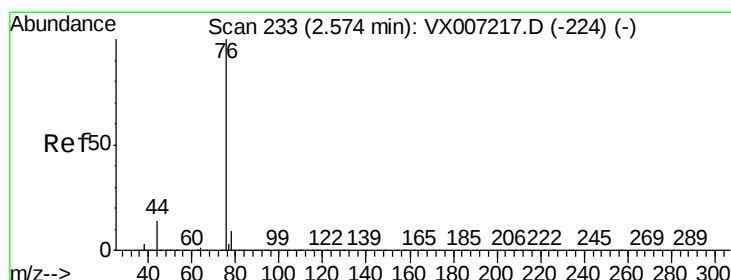
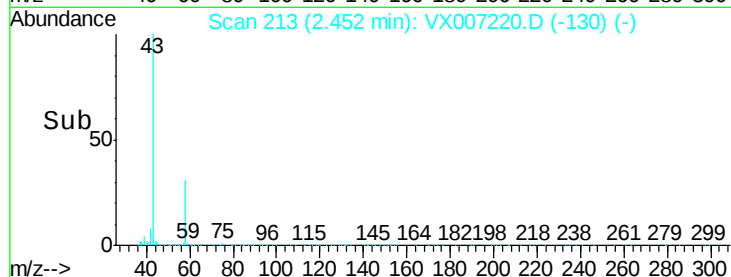
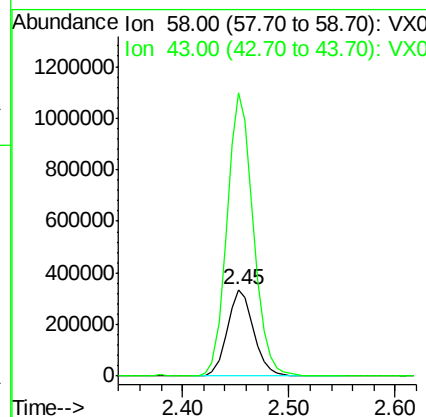
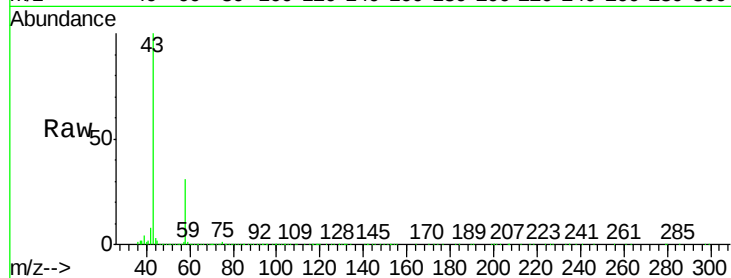
#15  
Acetone  
Concen: 425.520 ug/l  
RT: 2.45 min Scan# 213  
Delta R.T. 0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 43      | 326.9 | 258.6 | 388.0 |

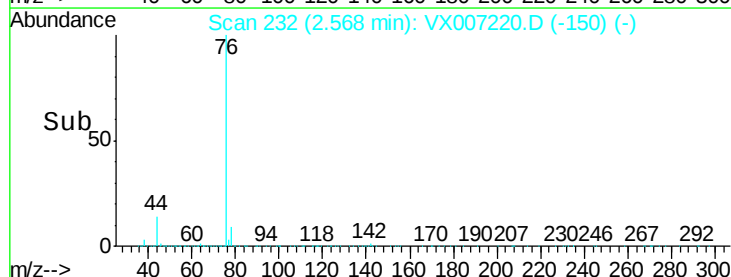
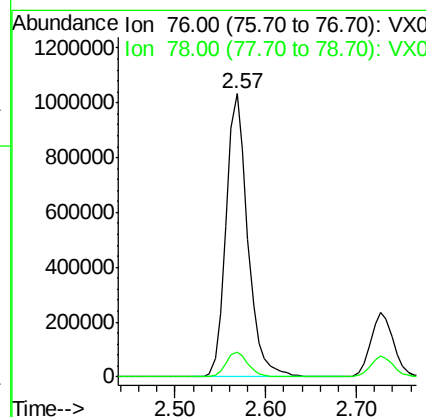
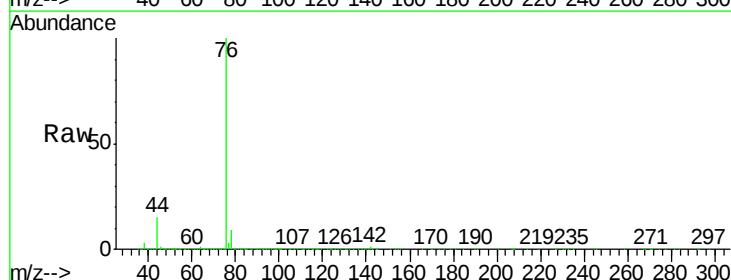
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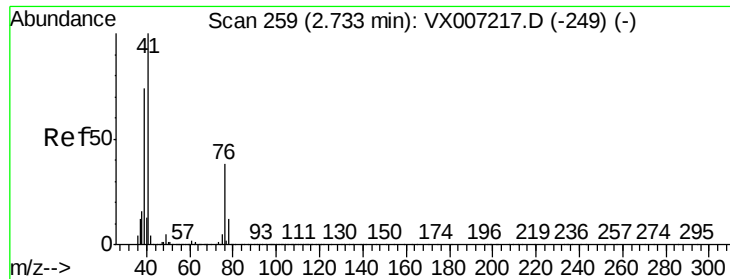
MMDadoda  
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#16  
Carbon Disulfide  
Concen: 118.978 ug/l  
RT: 2.57 min Scan# 232  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 8.8   | 7.1   | 10.7  |





#17

Allvl chloride

Concen: 110.744 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

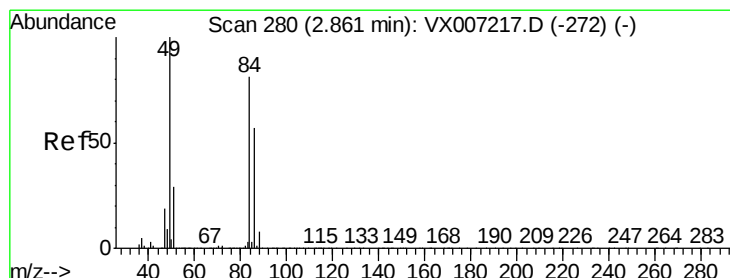
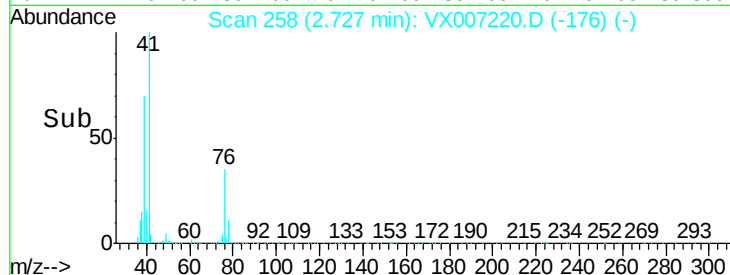
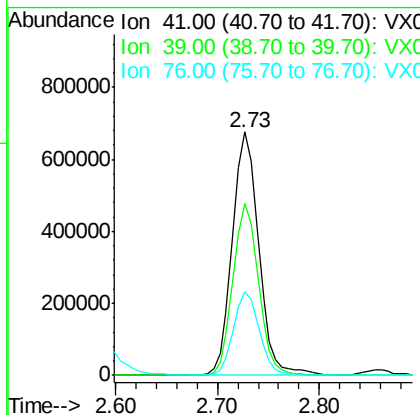
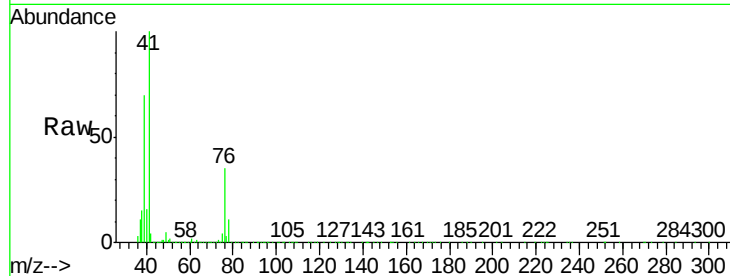
ClientSampleId :

VSTDIC150

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 41    | Resp: | 1213474 |
| Ion      | Ratio | Lower | Upper   |
| 41       | 100   |       |         |
| 39       | 70.4  | 31.8  | 95.4    |
| 76       | 34.4  | 15.3  | 45.8    |

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#18

Methylene Chloride

Concen: 128.456 ug/l

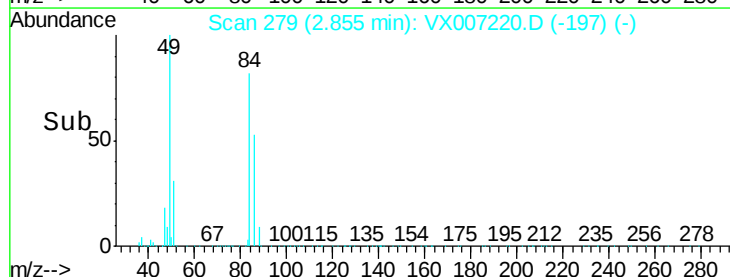
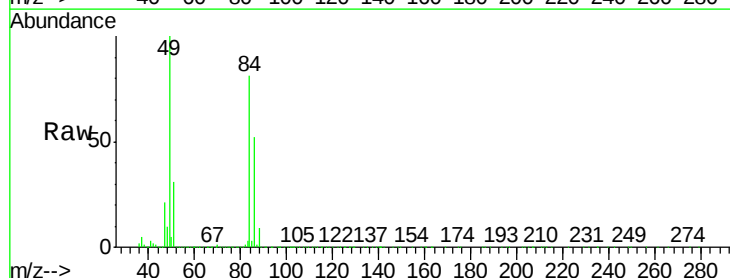
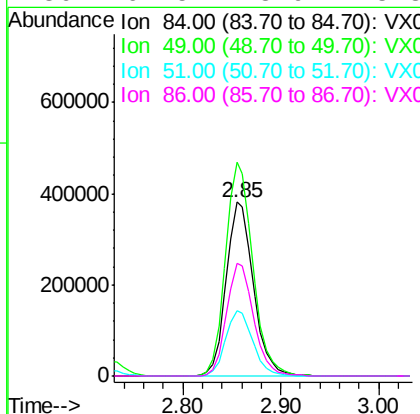
RT: 2.85 min Scan# 279

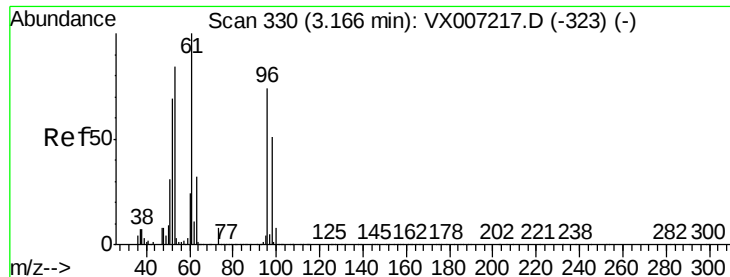
Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 736119 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 123.0 | 106.2 | 159.4  |
| 51       | 37.5  | 31.3  | 46.9   |
| 86       | 64.5  | 48.9  | 73.3   |





#19

trans-1,2-Dichloroethene

Concen: 138.870 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

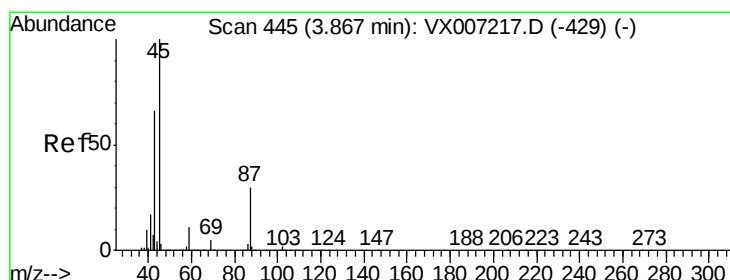
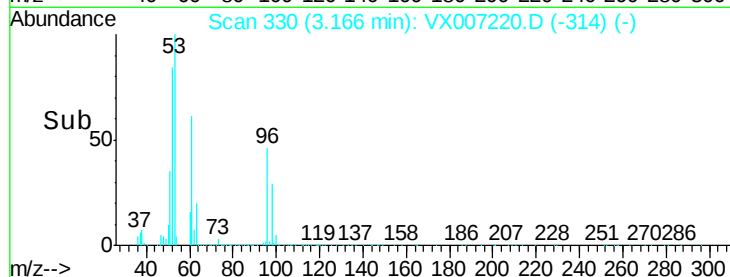
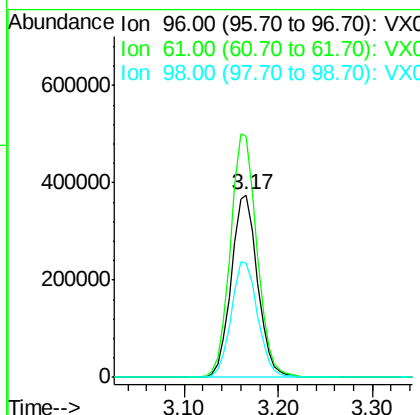
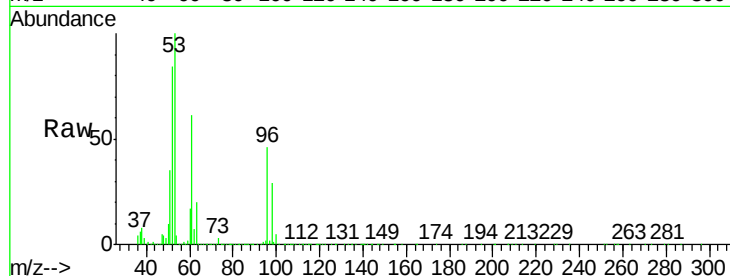
ClientSampleId :

VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 731086 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 132.1 | 119.5 | 179.3  |
| 98       | 62.5  | 50.6  | 75.8   |

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#20

Diisopropyl ether

Concen: 116.280 ug/l

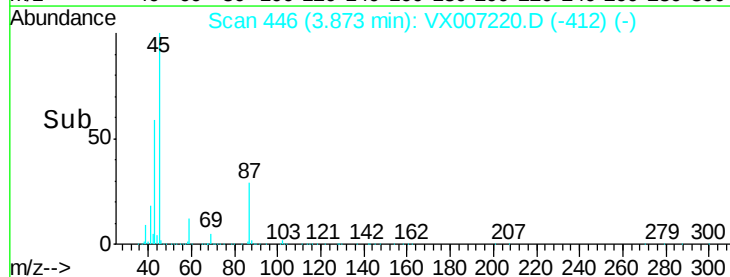
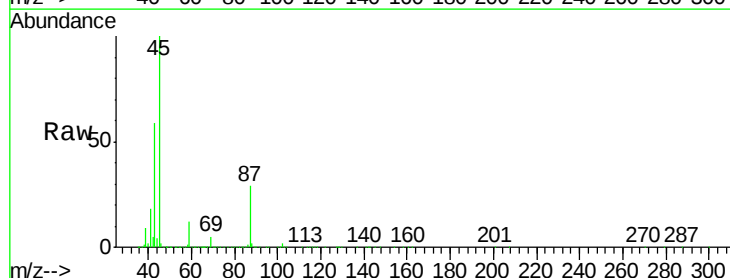
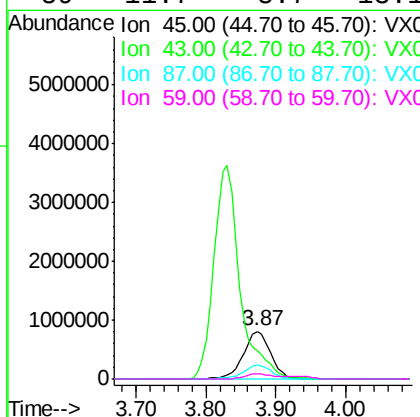
RT: 3.87 min Scan# 446

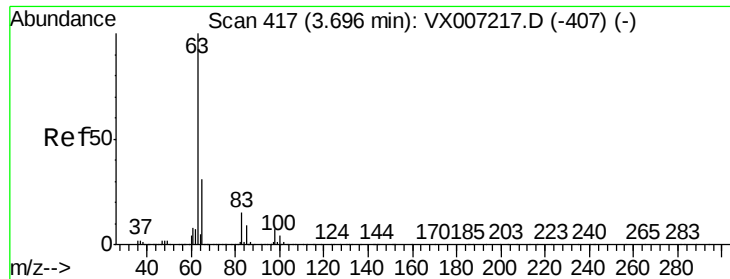
Delta R.T. 0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 45    | Resp: | 2172414 |
| Ion      | Ratio | Lower | Upper   |
| 45       | 100   |       |         |
| 43       | 58.7  | 49.8  | 74.8    |
| 87       | 29.3  | 19.1  | 28.7#   |
| 59       | 11.7  | 8.7   | 13.1    |





#21

1,1-Dichloroethane

Concen: 116.078 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

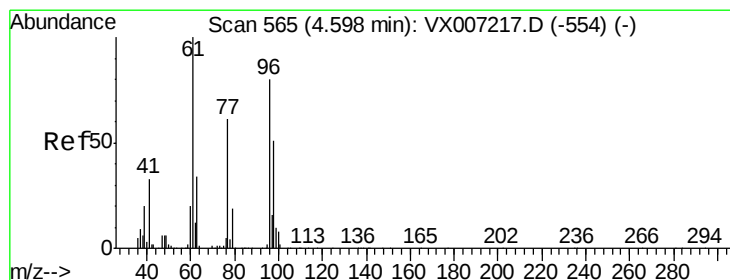
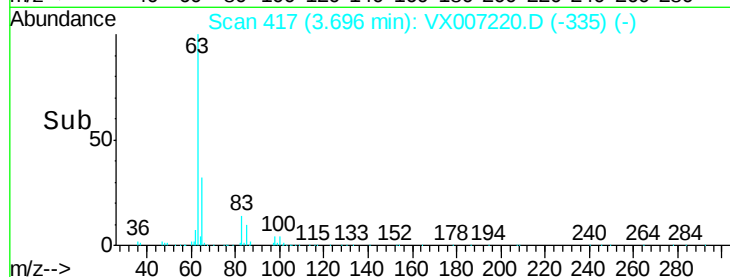
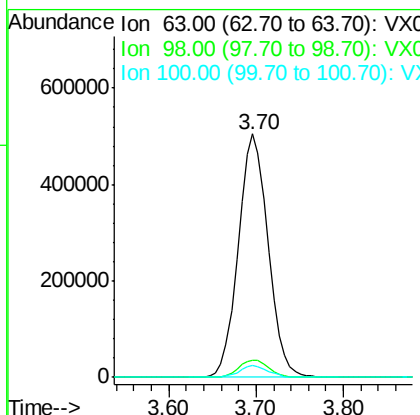
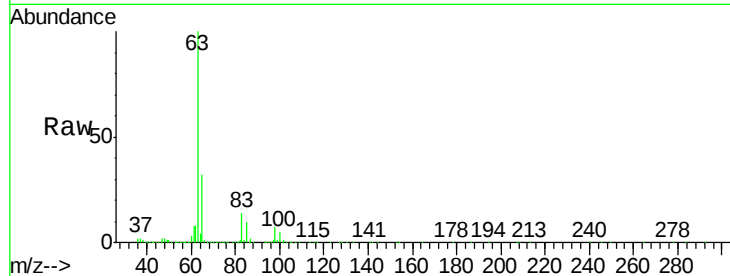
ClientSampleId :

VSTDIC150

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 63    | Resp: | 1194875 |
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 7.0   | 3.2   | 9.6     |
| 100      | 4.8   | 2.1   | 6.5     |

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#22

cis-1,2-Dichloroethene

Concen: 136.312 ug/l

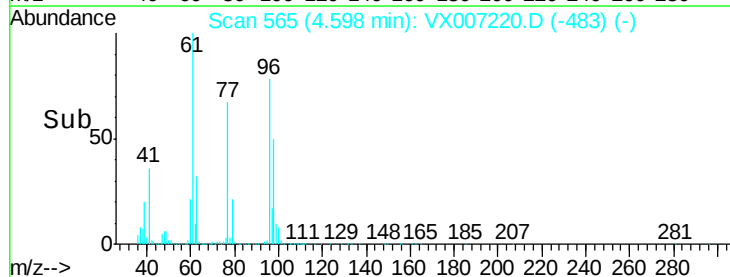
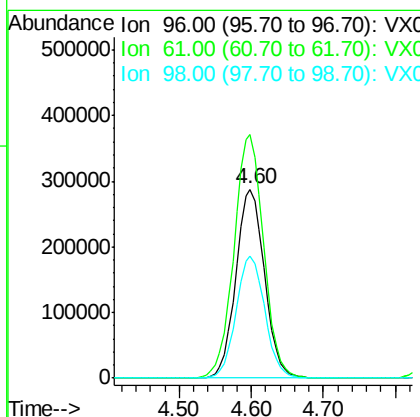
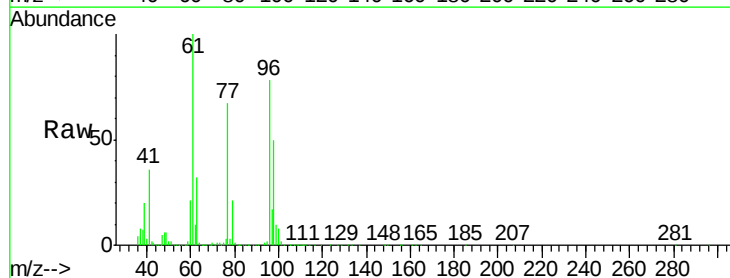
RT: 4.60 min Scan# 565

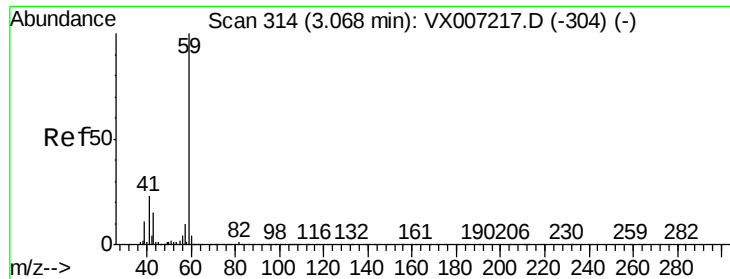
Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 793810 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 133.5 | 123.3 | 184.9  |
| 98       | 64.9  | 51.4  | 77.0   |





#23

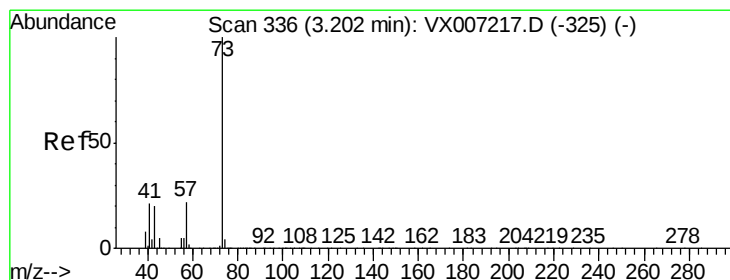
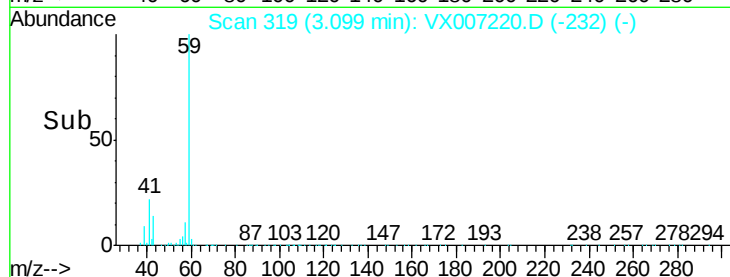
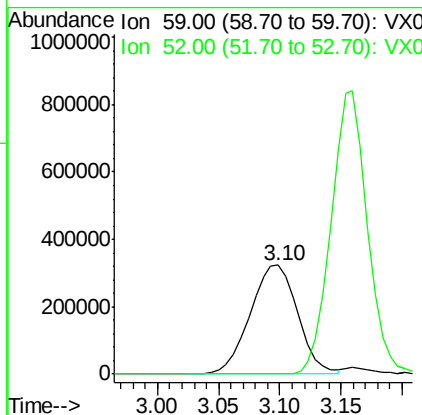
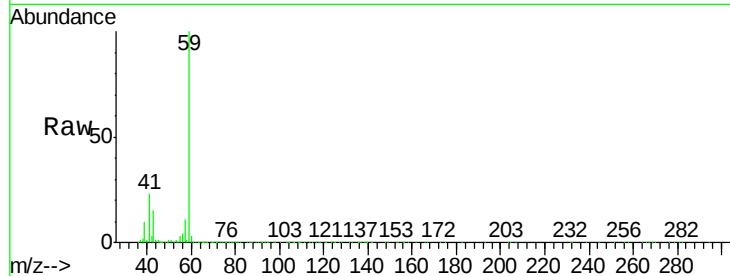
tert-Butyl Alcohol  
 Concen: 464.670 ug/l  
 RT: 3.10 min Scan# 319  
 Delta R.T. 0.03 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

Tot Ion: 59 Resp: 870890  
 Ion Ratio Lower Upper  
 59 100  
 52 0.2 0.1 0.1#

Manual Integrations  
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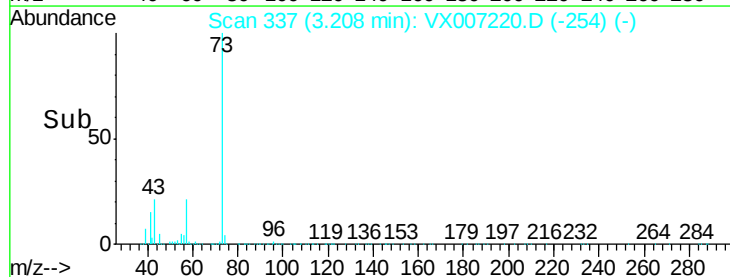
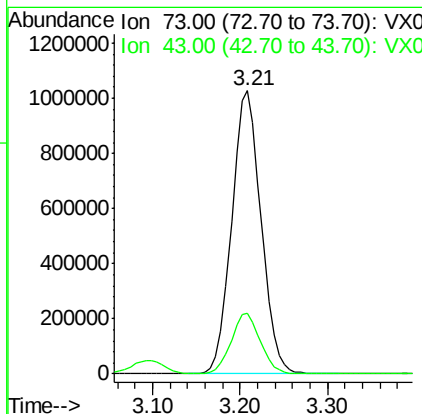
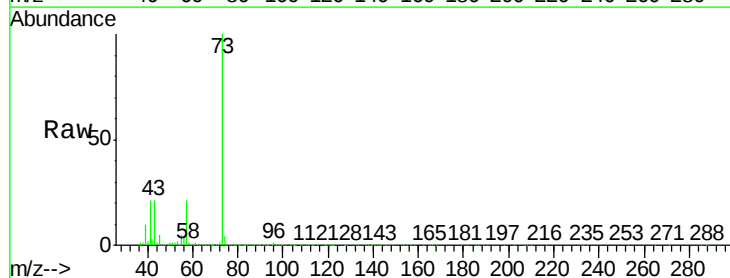
MMDadoda  
 1/28/2019 12:05:17 PM

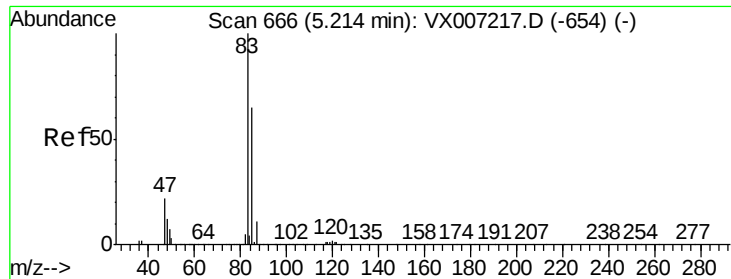


#24

Methyl tert-Butyl Ether  
 Concen: 132.207 ug/l  
 RT: 3.21 min Scan# 337  
 Delta R.T. 0.01 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Tgt Ion: 73 Resp: 2394072  
 Ion Ratio Lower Upper  
 73 100  
 43 21.2 16.3 24.5





#25

Chloroform

Concen: 131.407 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1273060

Ion Ratio Lower Upper

83 100

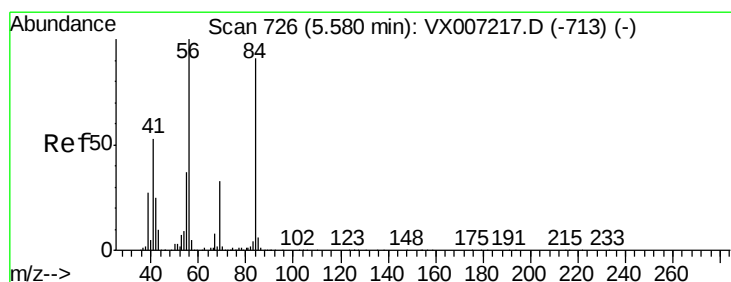
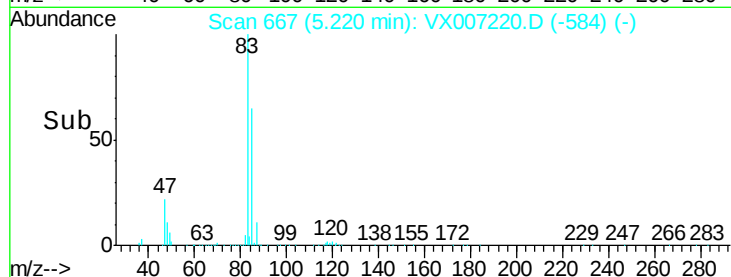
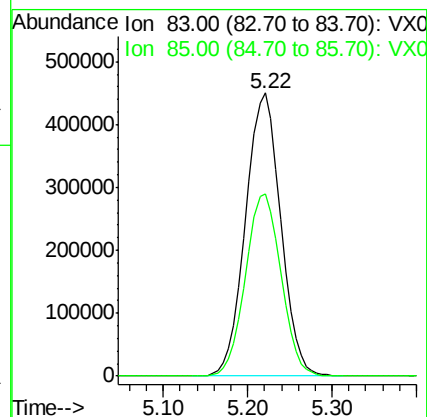
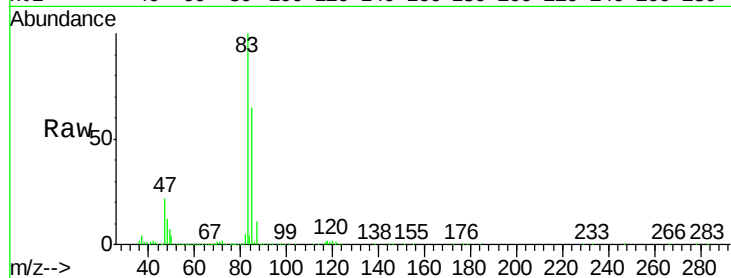
85 64.6 53.1 79.7

Manual Integrations

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#26

Cyclohexane

Concen: 118.576 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

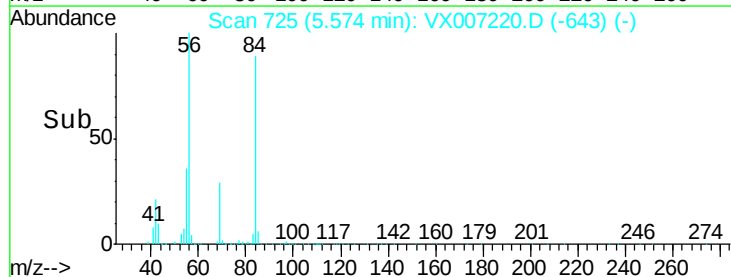
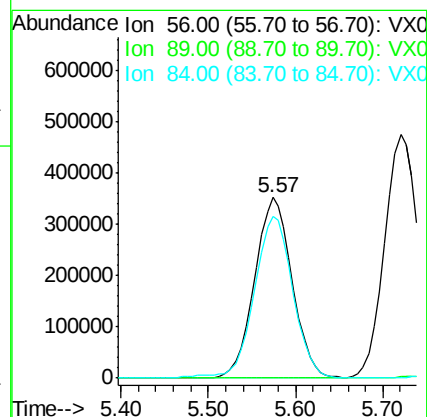
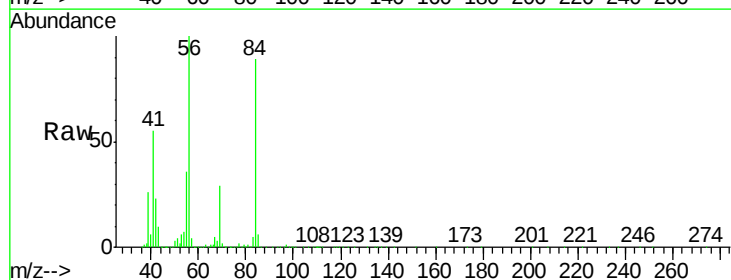
Tgt Ion: 56 Resp: 1047507

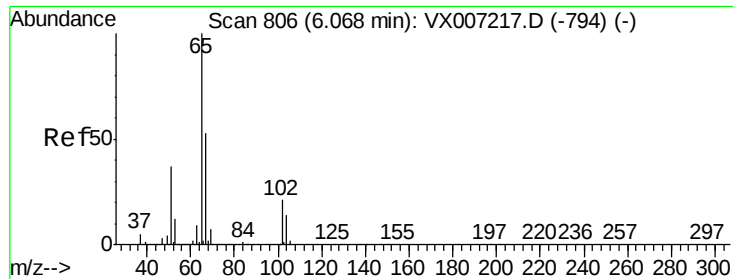
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0#

84 93.0 65.8 98.6





#27

1,2-Dichloroethane-d4

Concen: 25.553 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 65 Resp: 167211

Ion Ratio Lower Upper

65 100

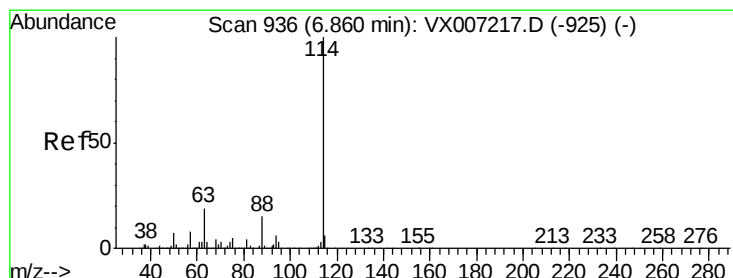
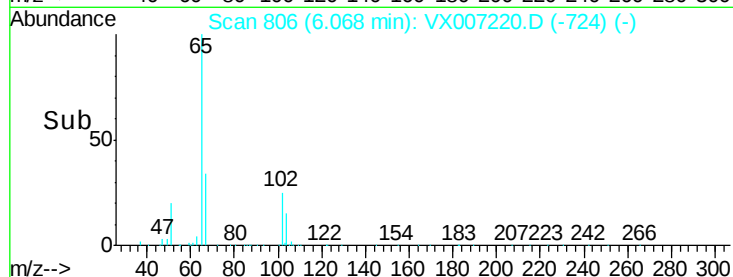
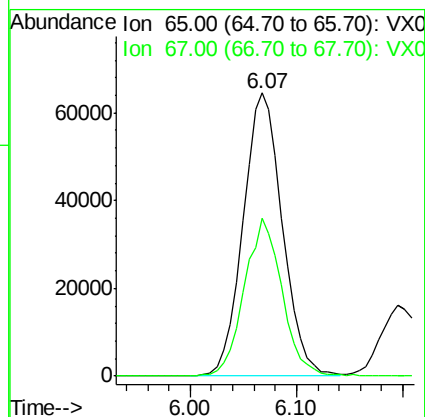
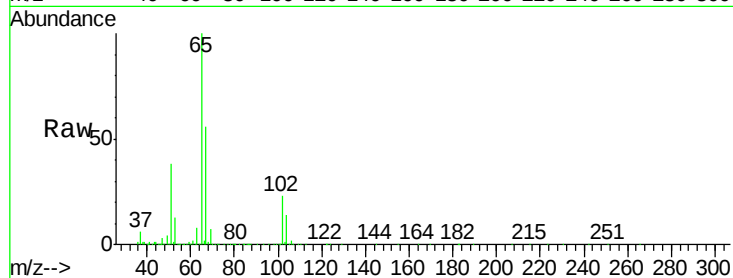
67 52.6 43.0 64.6

Manual Integrations

APPROVED

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

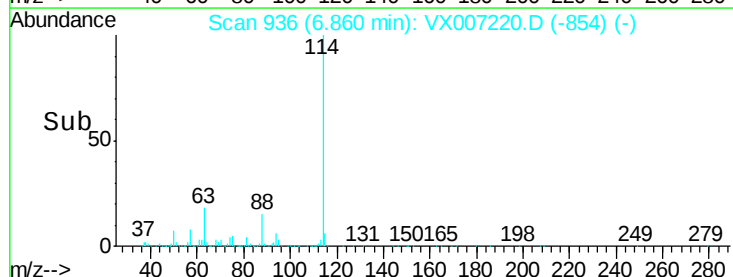
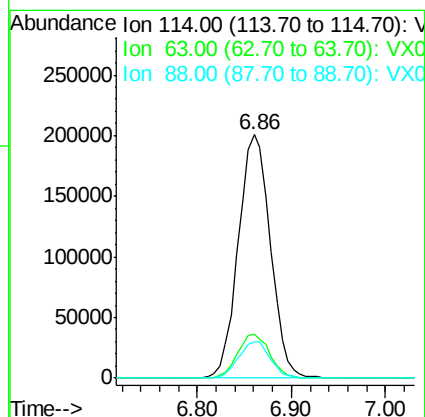
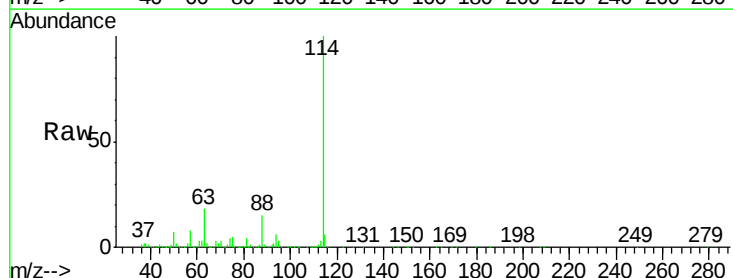
Tgt Ion: 114 Resp: 475554

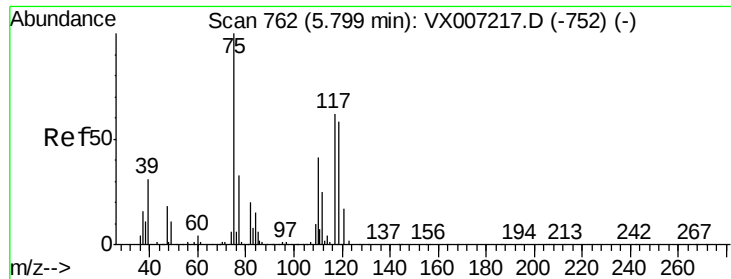
Ion Ratio Lower Upper

114 100

63 18.0 16.6 24.8

88 14.7 12.4 18.6





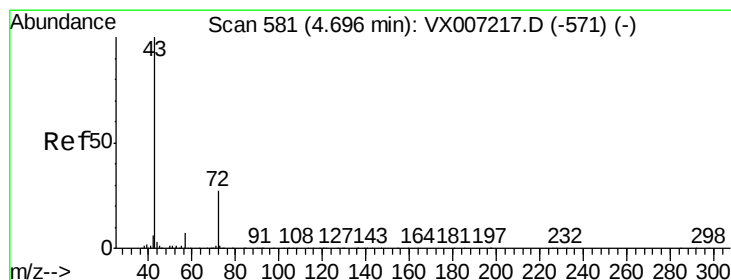
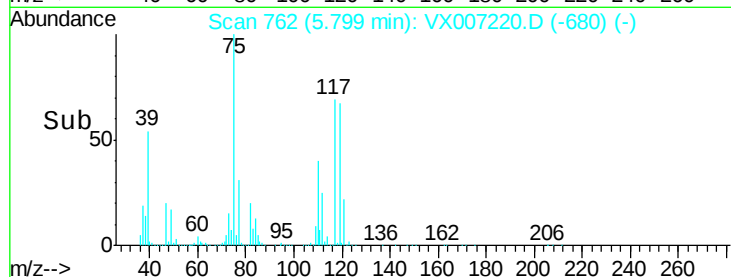
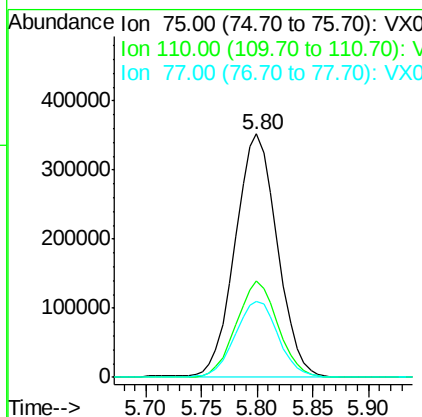
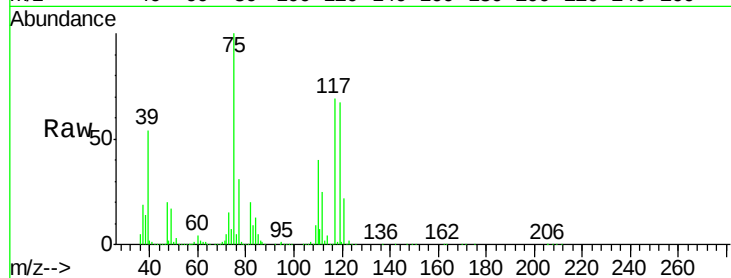
#29  
 1,1-Dichloropropene  
 Concen: 132.094 ug/l  
 RT: 5.80 min Scan# 762  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 39.1  | 0.0   | 70.8  |
| 77      | 32.1  | 0.0   | 63.0  |

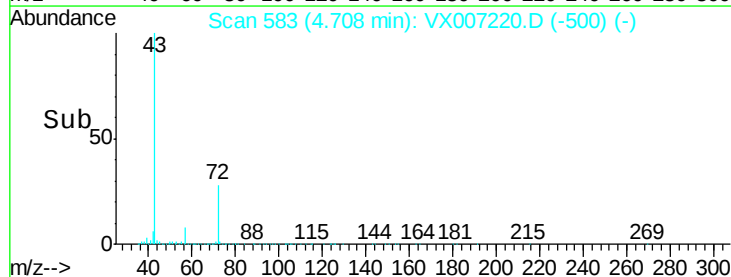
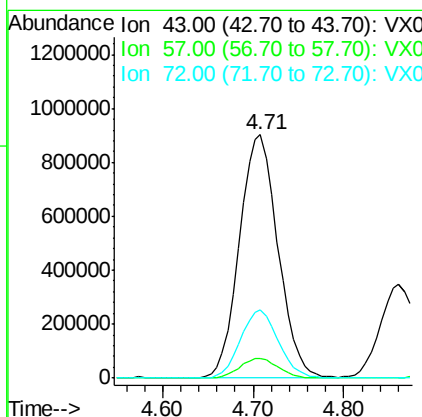
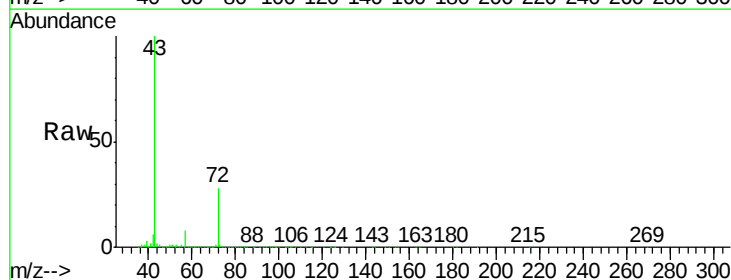
Manual Integrations  
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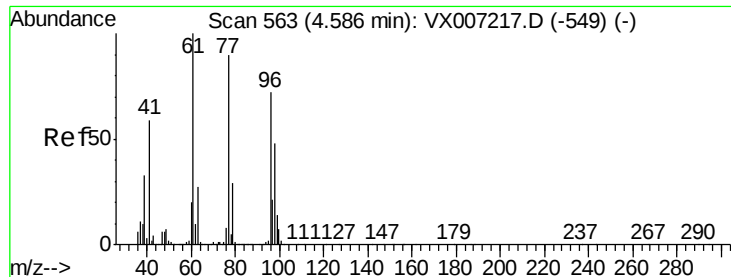
MMDadoda  
 1/28/2019 12:05:17 PM



#30  
 2-Butanone  
 Concen: 465.389 ug/l  
 RT: 4.71 min Scan# 583  
 Delta R.T. 0.01 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.1   | 6.2   | 9.4   |
| 72      | 27.4  | 19.7  | 29.5  |





#31

2,2-Dichloropropane

Concen: 125.739 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 77 Resp: 970822

Ion Ratio Lower Upper

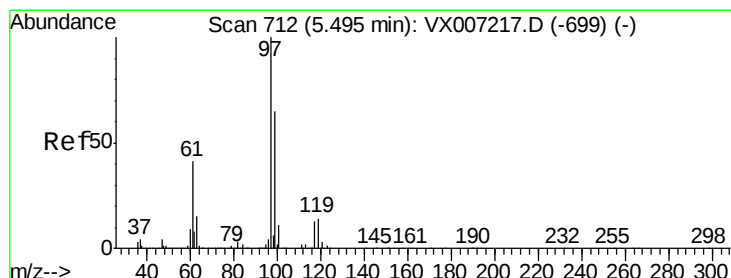
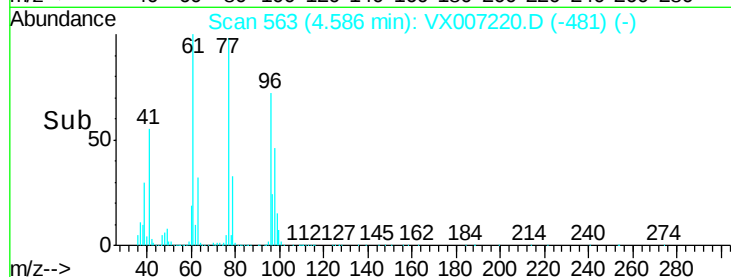
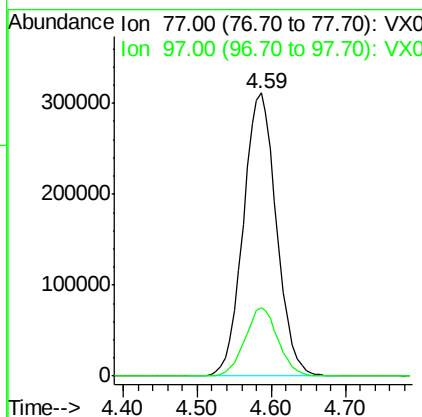
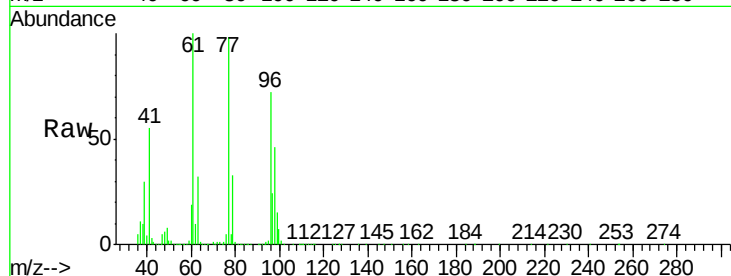
77 100

97 24.1 18.5 27.7

Manual Integrations  
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#32

1,1,1-Trichloroethane

Concen: 138.500 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

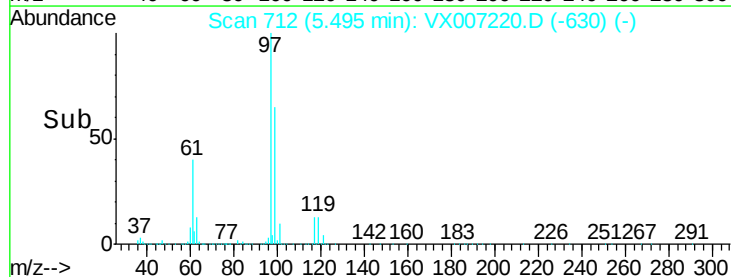
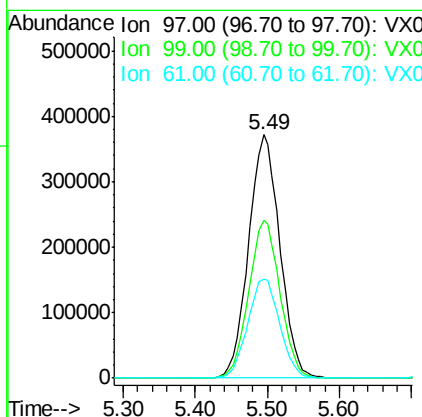
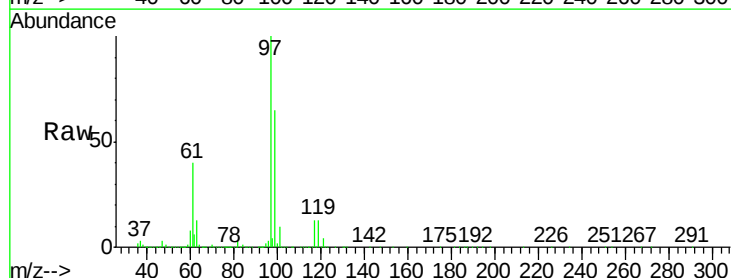
Tgt Ion: 97 Resp: 1120378

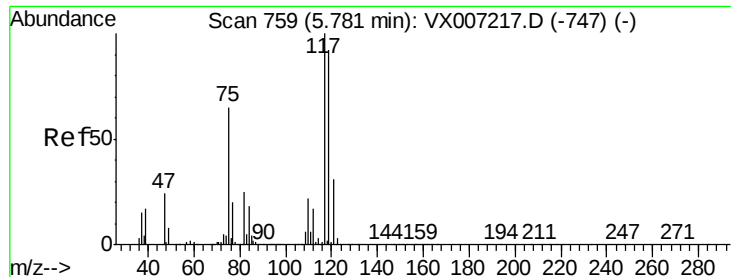
Ion Ratio Lower Upper

97 100

99 64.9 51.0 76.6

61 41.4 35.8 53.6





#33

Carbon Tetrachloride

Concen: 142.075 ug/l

RT: 5.78 min Scan# 759

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

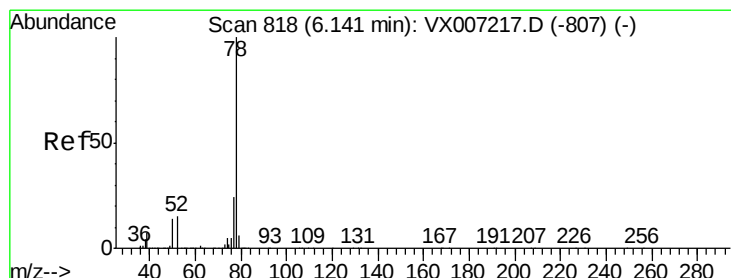
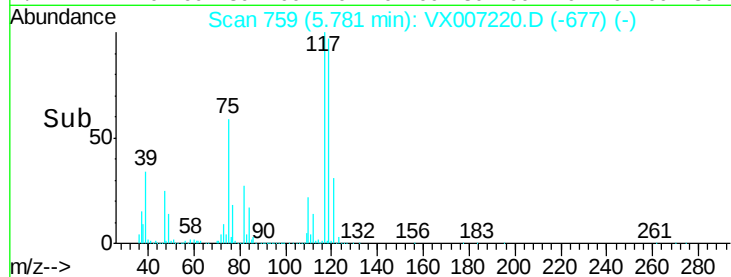
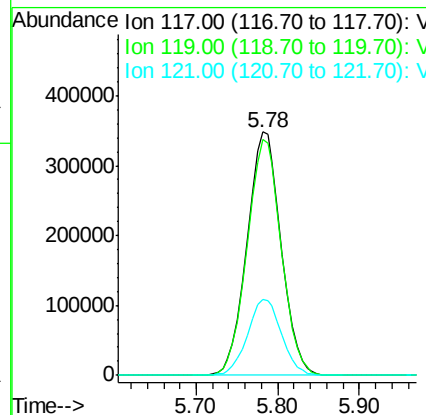
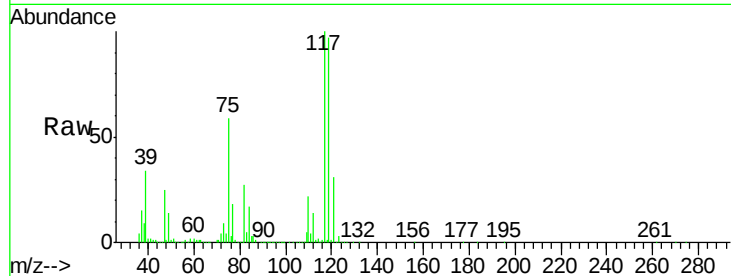
ClientSampleId :

VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.0  | 76.2  | 114.4 |
| 121     | 31.3  | 25.2  | 37.8  |

Manual Integrations  
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#34

Benzene

Concen: 131.219 ug/l

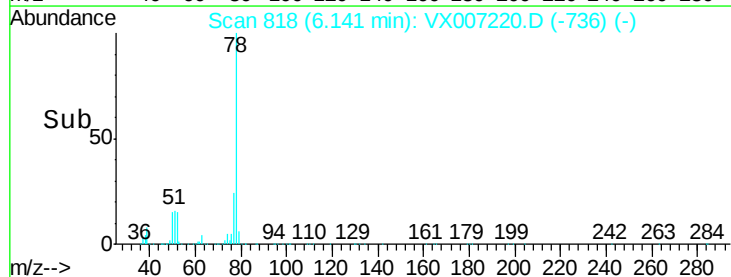
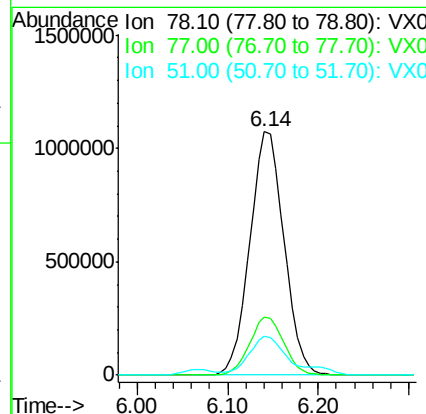
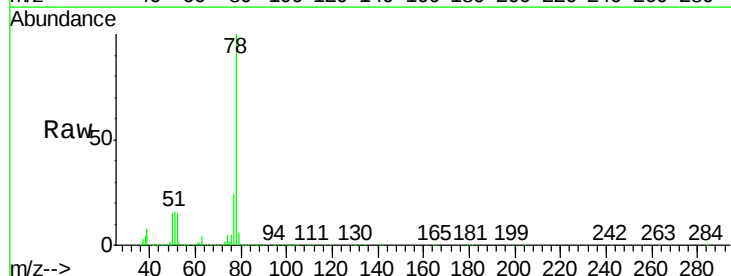
RT: 6.14 min Scan# 818

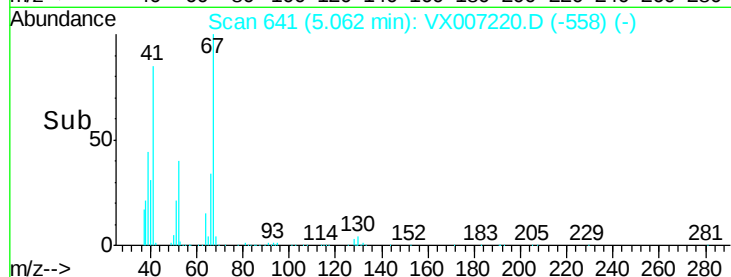
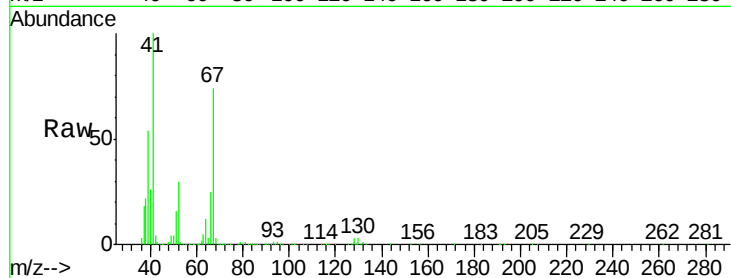
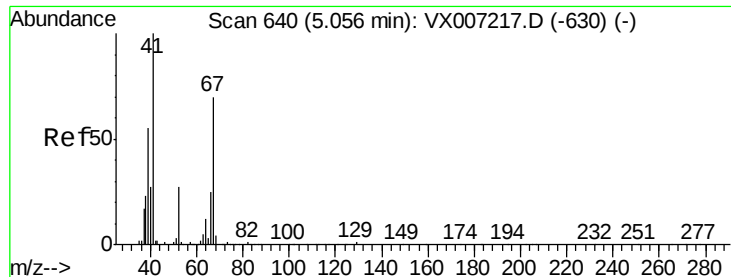
Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

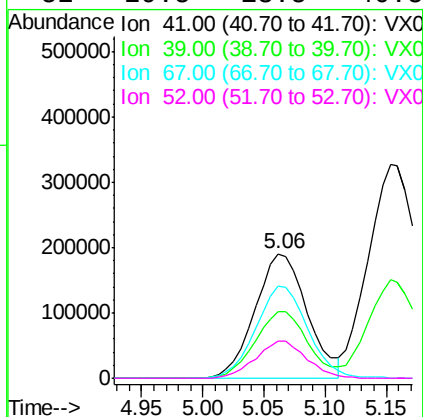
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.7  | 19.8  | 29.8  |
| 51      | 15.0  | 13.8  | 20.6  |





#35  
Methacrylonitrile  
Concen: 105.879 ug/l  
RT: 5.06 min Scan# 641  
Delta R.T. 0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

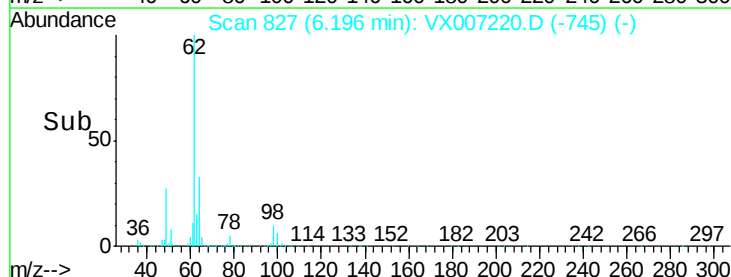
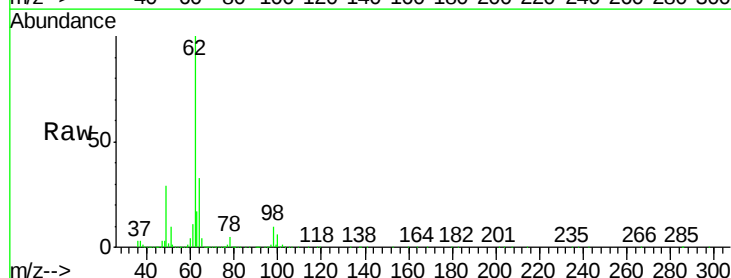
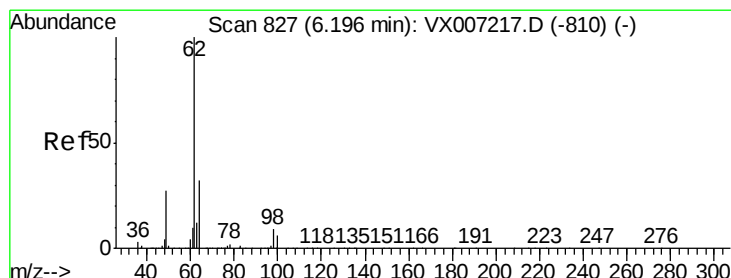
| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 41      | 100  |       |       |       |
| 39      | 54.1 | 26.1  | 78.3  |       |
| 67      | 73.9 | 32.3  | 96.9  |       |
| 52      | 29.5 | 13.5  | 40.5  |       |



Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

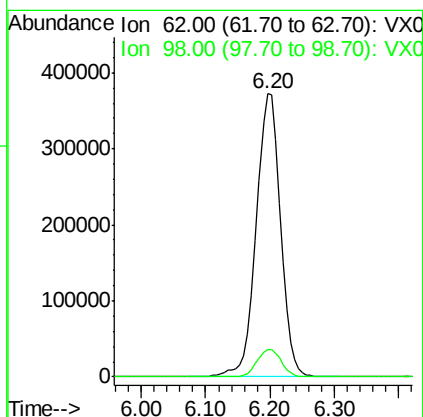
Manual Integrations  
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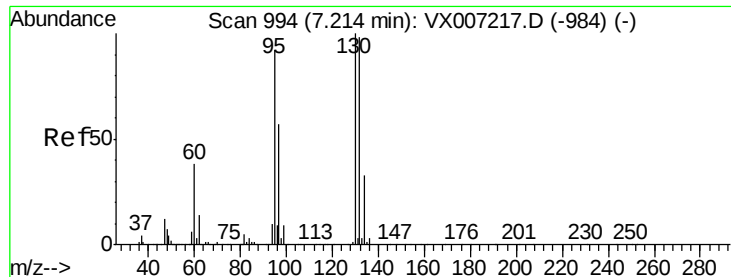
MMDadoda  
1/28/2019 12:05:17 PM



#36  
1,2-Dichloroethane  
Concen: 125.389 ug/l  
RT: 6.20 min Scan# 827  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 62      | 100 |       |       |       |
| 98      | 9.6 | 7.5   | 11.3  |       |





#37

Trichloroethene

Concen: 148.464 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion:130 Resp: 835113

Ion Ratio Lower Upper

130 100

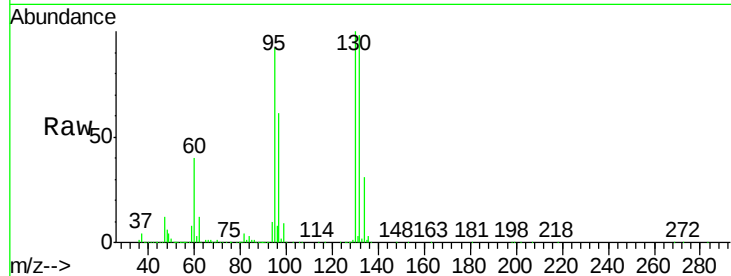
95 92.3 78.5 117.7

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

400000

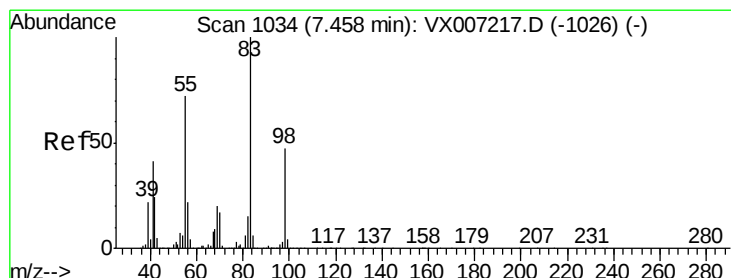
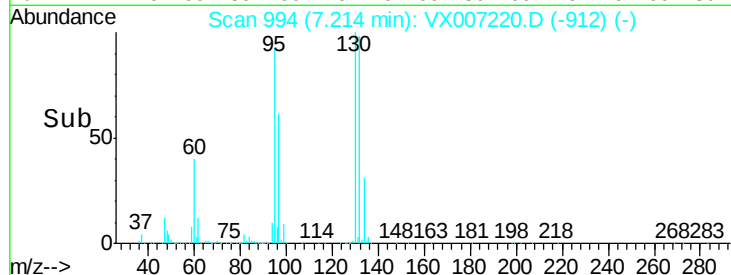
300000

200000

100000

0

Time-->



#38

Methylcyclohexane

Concen: 138.824 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

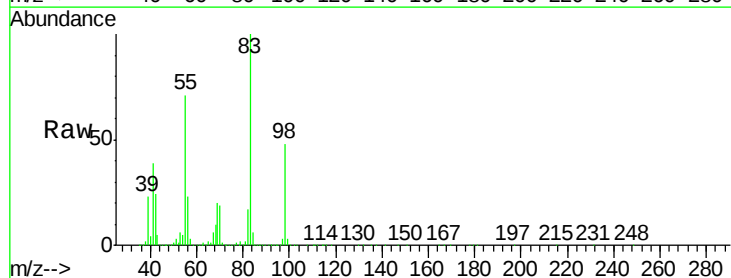
Tgt Ion: 83 Resp: 1159854

Ion Ratio Lower Upper

83 100

55 71.1 41.8 125.3

98 48.3 22.4 67.3



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

7.46

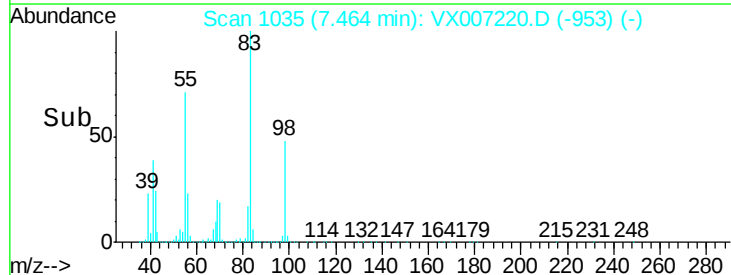
600000

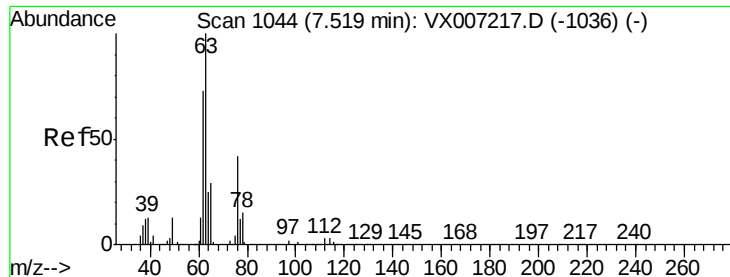
400000

200000

0

Time-->





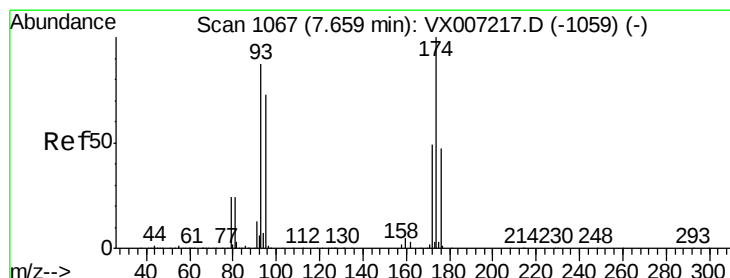
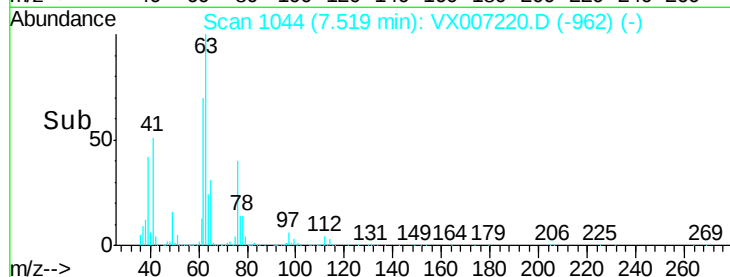
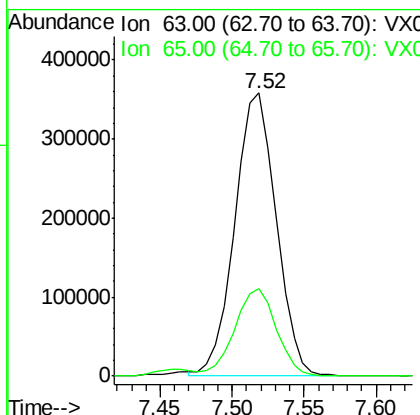
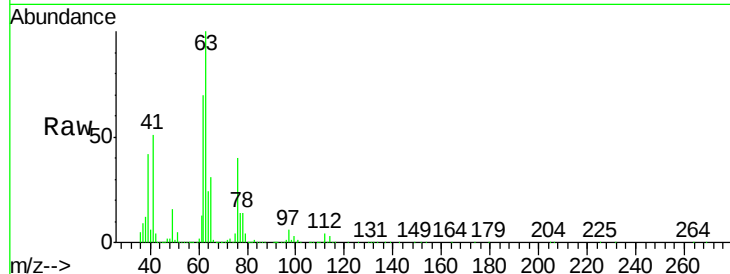
#39  
 1,2-Dichloropropane  
 Concen: 125.815 ug/l  
 RT: 7.52 min Scan# 1044  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.0  | 23.2  | 34.8  |

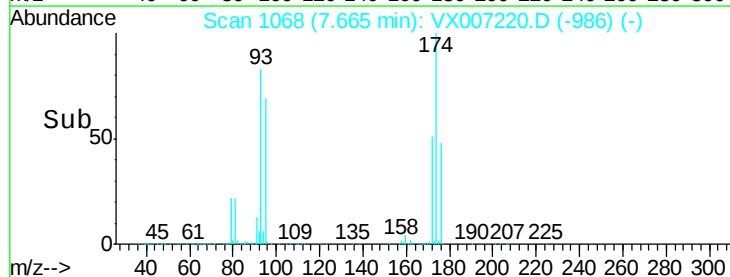
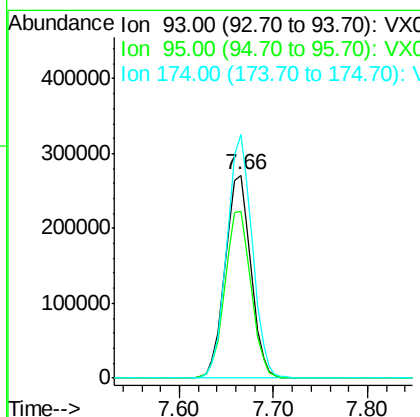
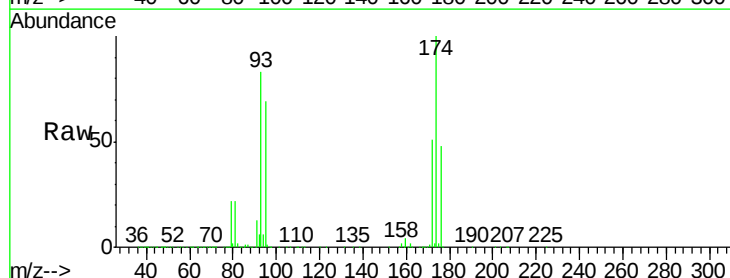
Manual Integrations  
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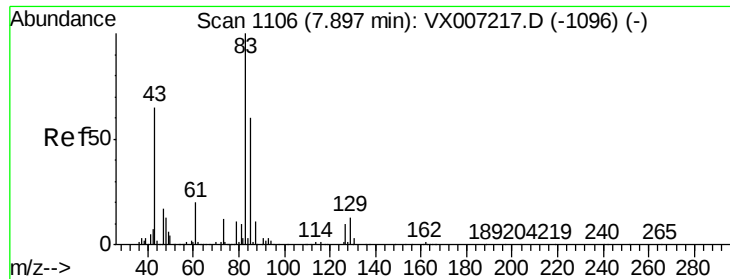
MMDadoda  
 1/28/2019 12:05:17 PM



#40  
 Dibromomethane  
 Concen: 139.326 ug/l  
 RT: 7.66 min Scan# 1068  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 83.7  | 0.0   | 172.4 |
| 174     | 118.2 | 0.0   | 234.0 |





#41

Bromodichloromethane

Concen: 136.240 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

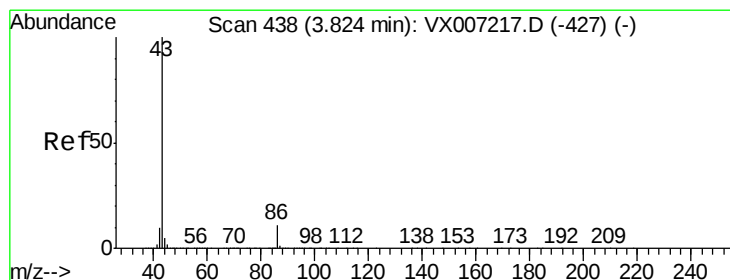
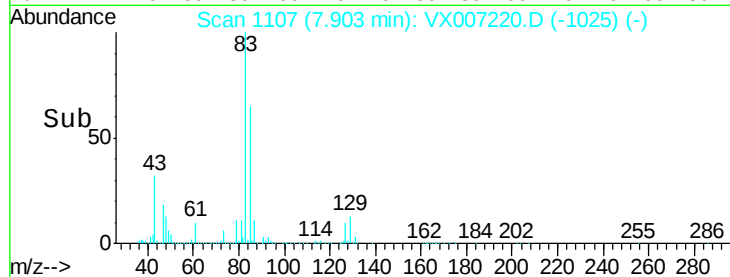
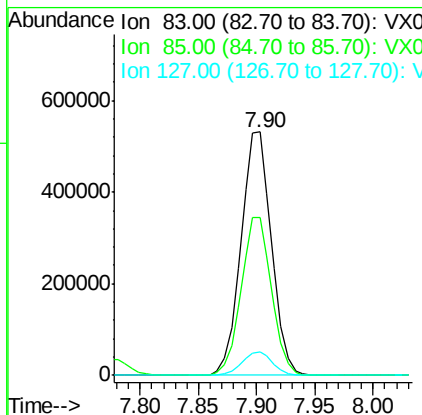
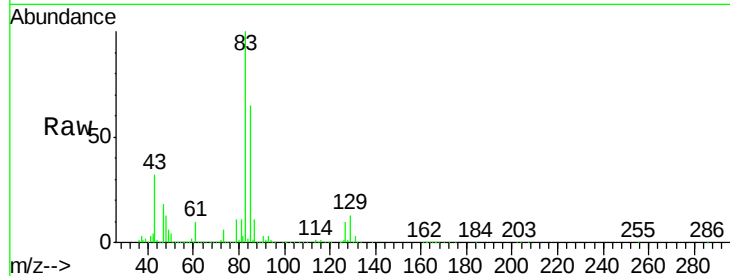
ClientSampleId :

VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 968592 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.7  | 50.2  | 75.4   |
| 127       | 9.8   | 6.9   | 10.3   |

Manual Integrations  
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#42

Vinyl Acetate

Concen: 569.409 ug/l

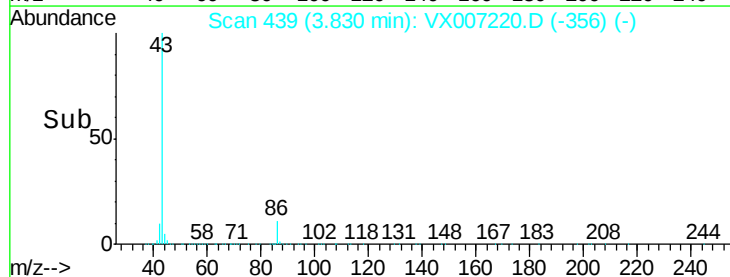
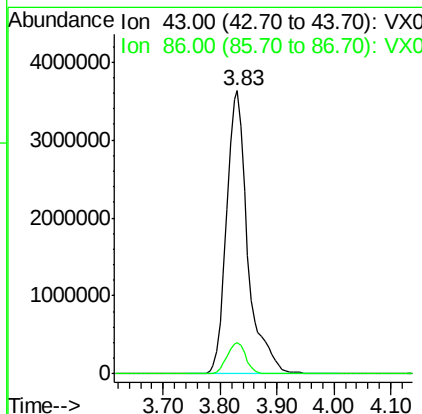
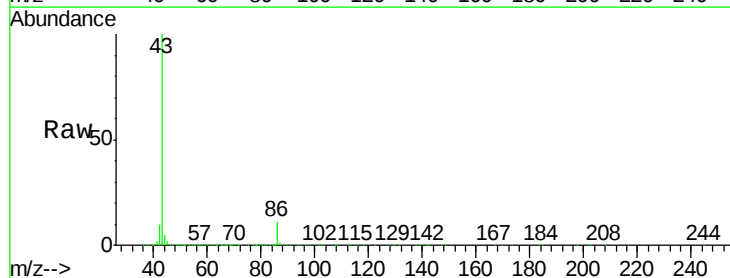
RT: 3.83 min Scan# 439

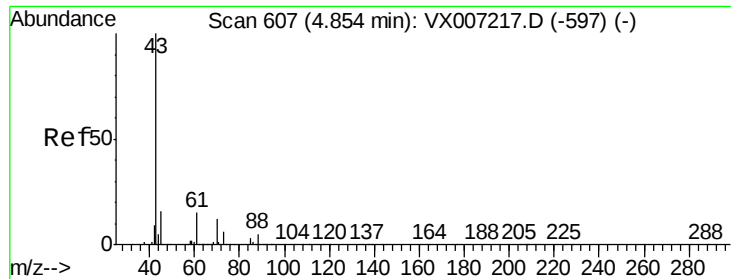
Delta R.T. 0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 43    | Resp: | 9425210 |
| Ion Ratio | Lower | Upper |         |
| 43        | 100   |       |         |
| 86        | 9.8   | 6.6   | 10.0    |





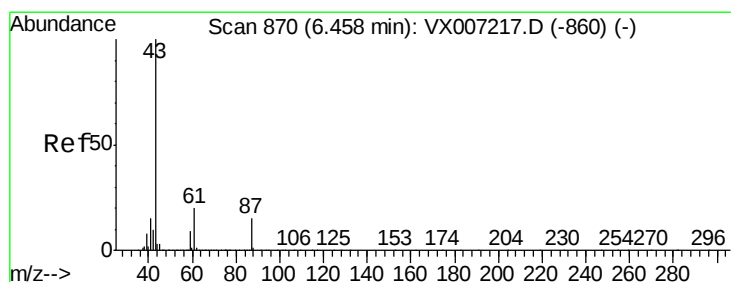
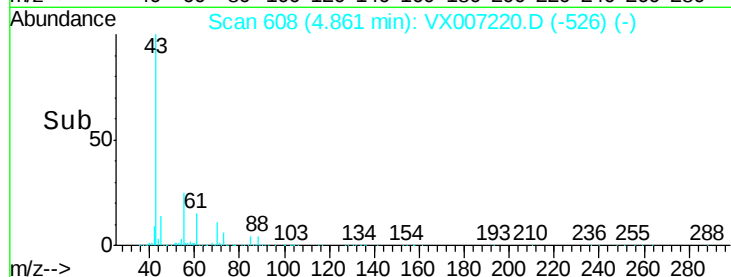
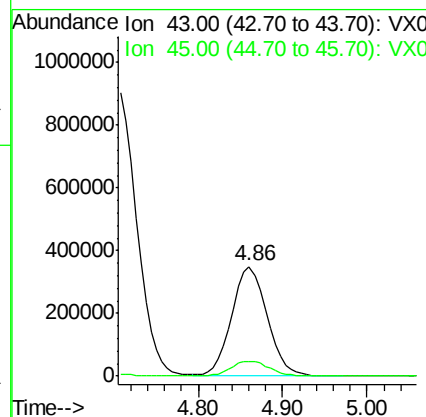
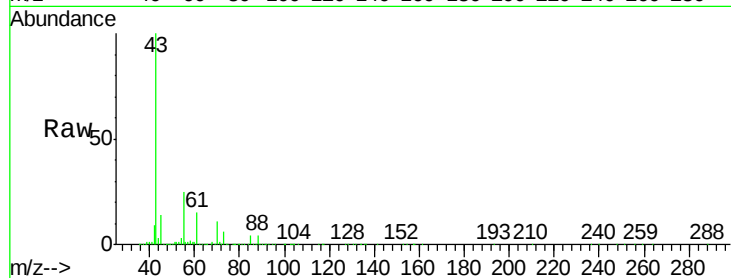
#43  
Ethyl Acetate  
Concen: 106.211 ug/l  
RT: 4.86 min Scan# 608  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tot Ion: 43 Resp: 1002411  
Ion Ratio Lower Upper  
43 100  
45 14.8 12.3 18.5

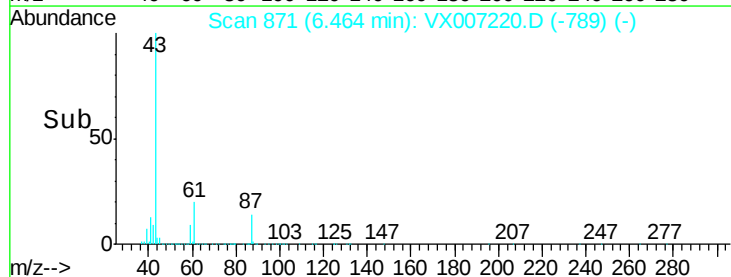
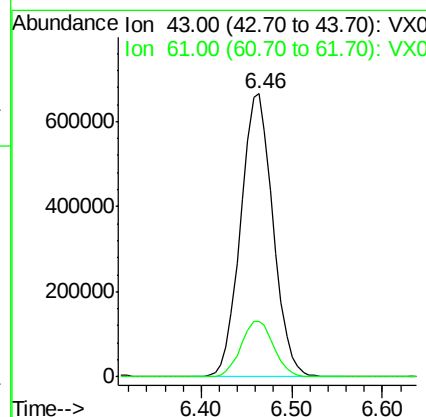
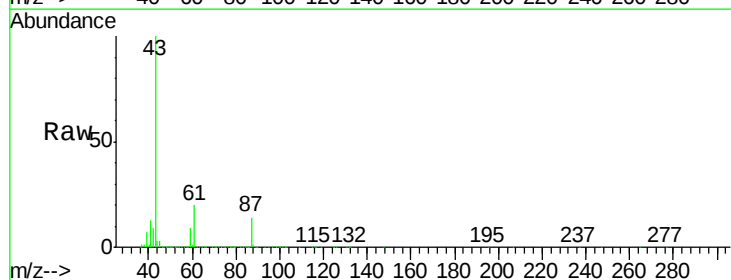
Manual Integrations  
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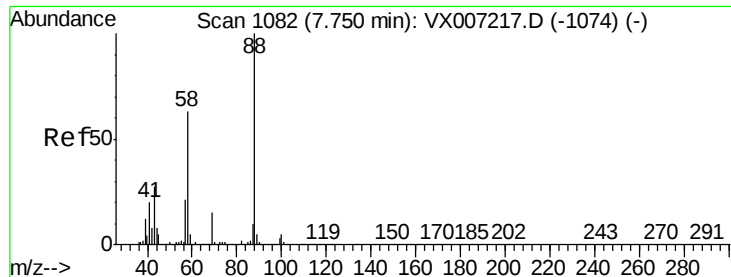
MMDadoda  
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#44  
Isopropyl Acetate  
Concen: 116.373 ug/l  
RT: 6.46 min Scan# 871  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Tgt Ion: 43 Resp: 1639025  
Ion Ratio Lower Upper  
43 100  
61 20.2 15.7 23.5





#45

1,4-Dioxane

Concen: 2231.245 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

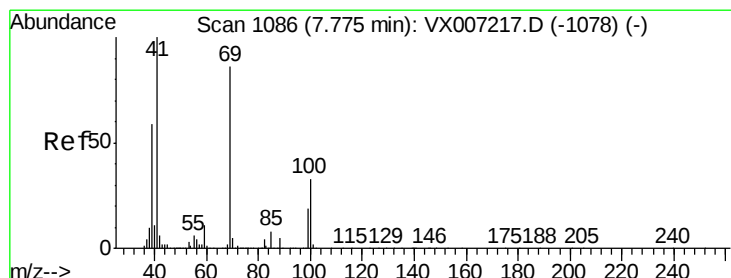
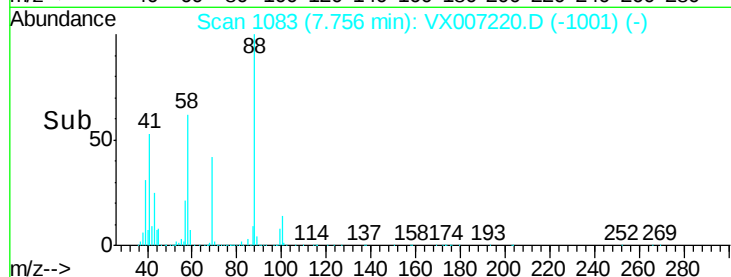
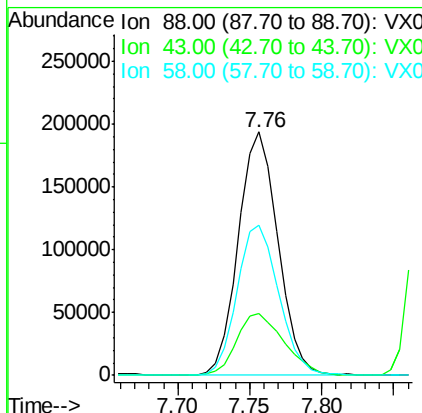
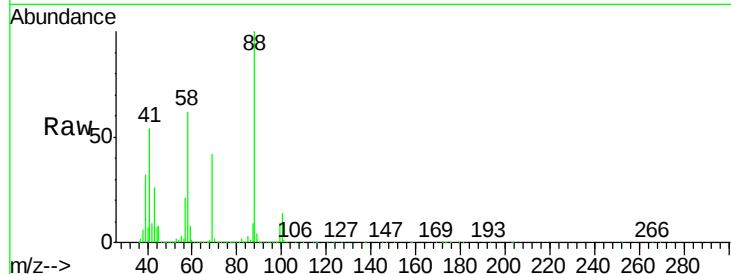
ClientSampled :

VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 88    | Resp: | 370237 |
| Ion      | Ratio | Lower | Upper  |
| 88       | 100   |       |        |
| 43       | 29.8  | 25.4  | 38.0   |
| 58       | 65.0  | 61.0  | 91.6   |

Manual Integrations  
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#46

Methyl methacrylate

Concen: 114.520 ug/l

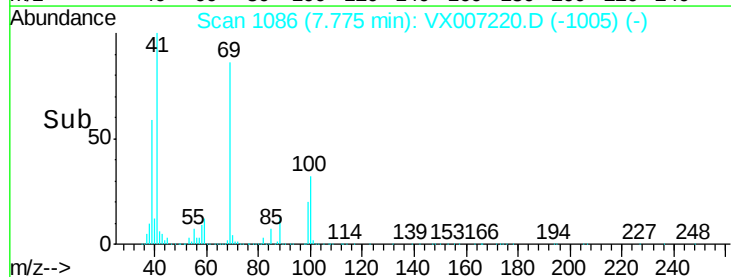
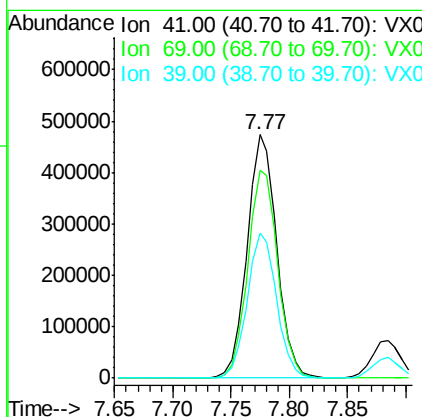
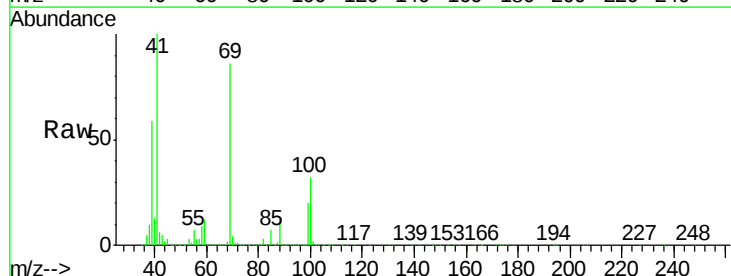
RT: 7.77 min Scan# 1086

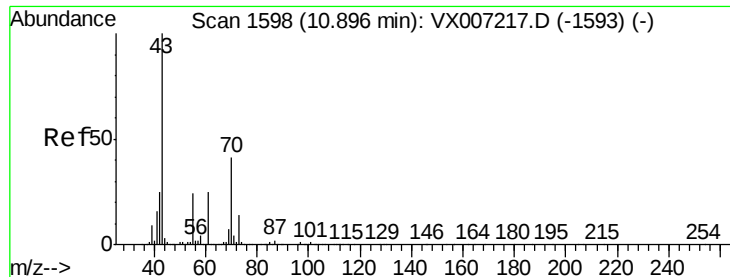
Delta R.T. -0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 836820 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 85.5  | 41.0  | 123.0  |
| 39       | 59.4  | 25.9  | 77.7   |





#47

n-amvl Acetate

Concen: 118.240 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampled :

VSTDIC150

Tot Ion: 43 Resp: 1536444

Ion Ratio Lower Upper

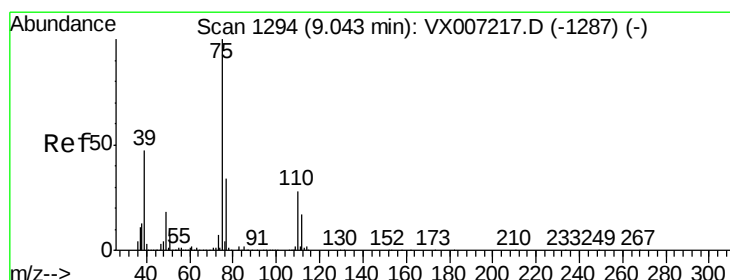
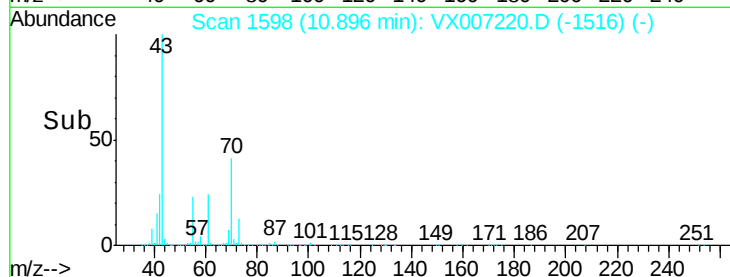
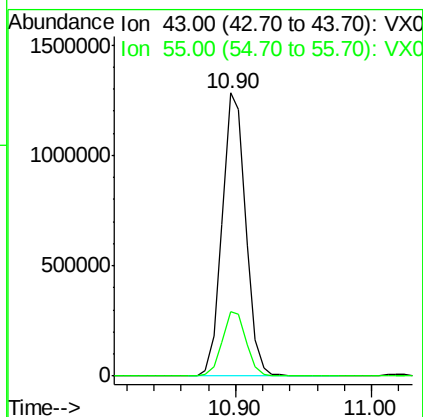
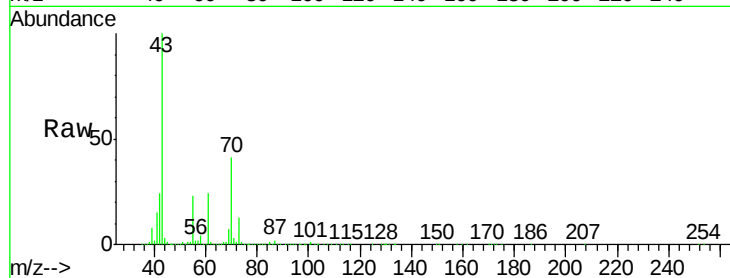
43 100

55 23.1 20.0 30.0

Manual Integrations  
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#48

t-1,3-Dichloropropene

Concen: 135.197 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007220.D

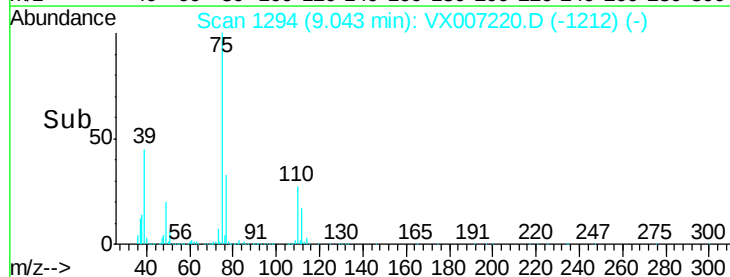
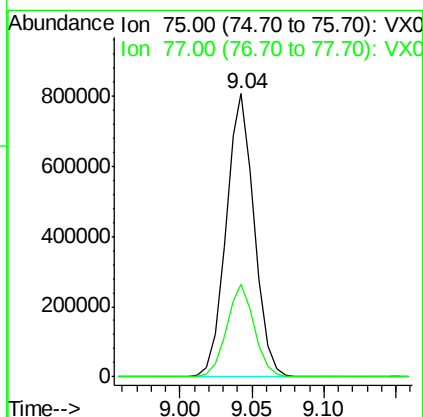
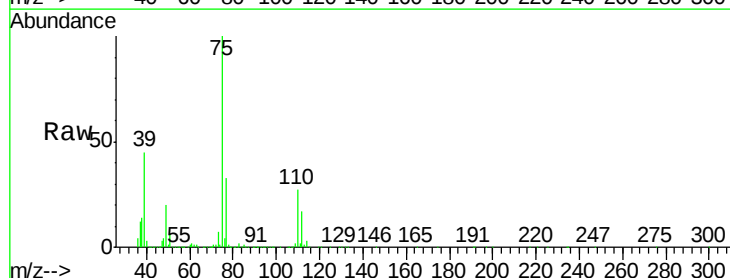
Acq: 25 Jan 2019 10:44

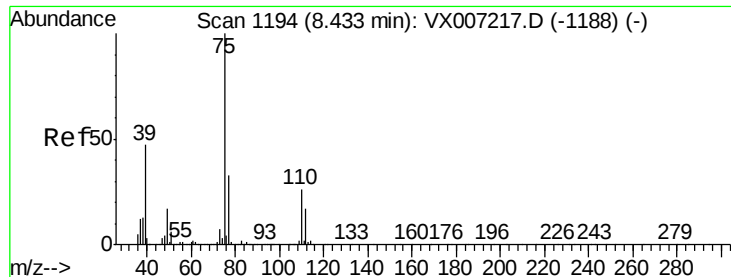
Tgt Ion: 75 Resp: 1099604

Ion Ratio Lower Upper

75 100

77 32.5 24.4 36.6





#49

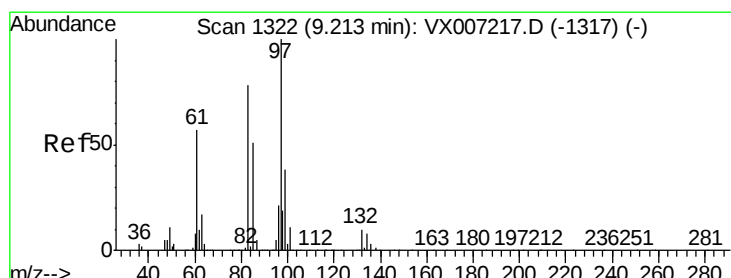
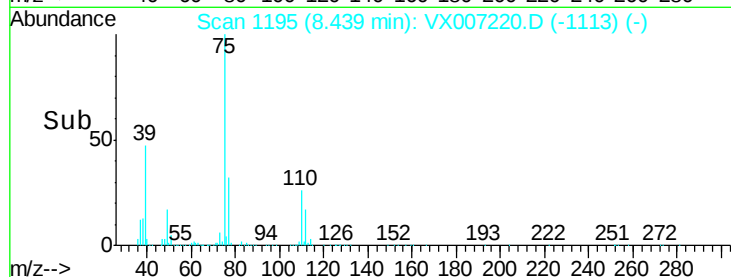
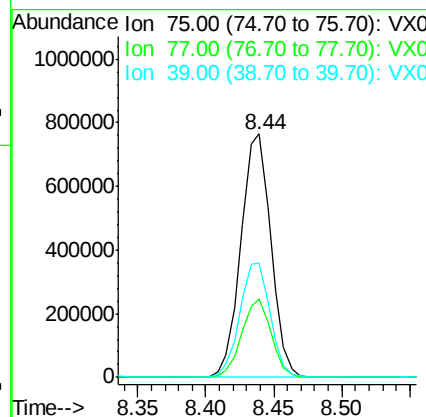
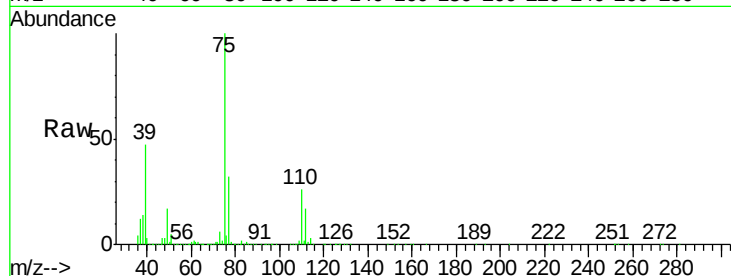
cis-1,3-Dichloropropene  
 Concen: 133.597 ug/l  
 RT: 8.44 min Scan# 1195  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.1  | 24.9  | 37.3  |
| 39      | 46.8  | 38.0  | 57.0  |

Manual Integrations  
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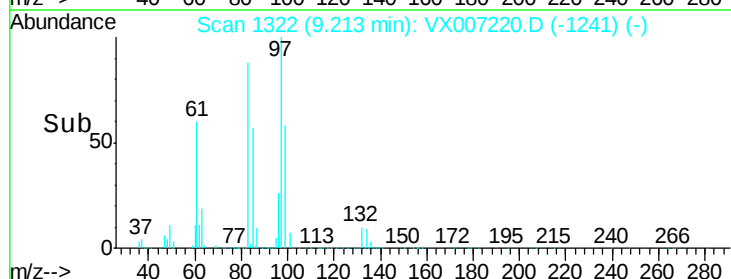
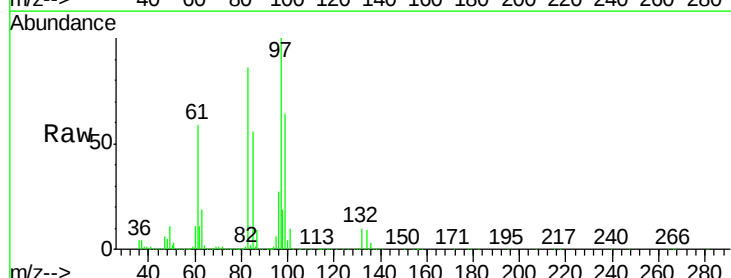
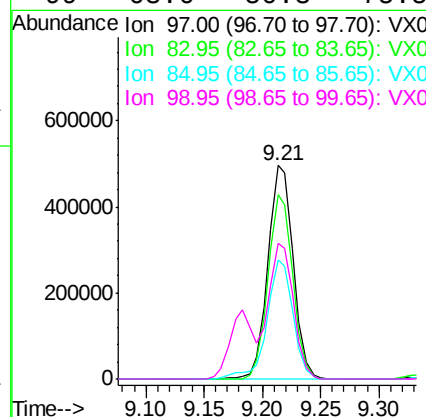
MMDadoda  
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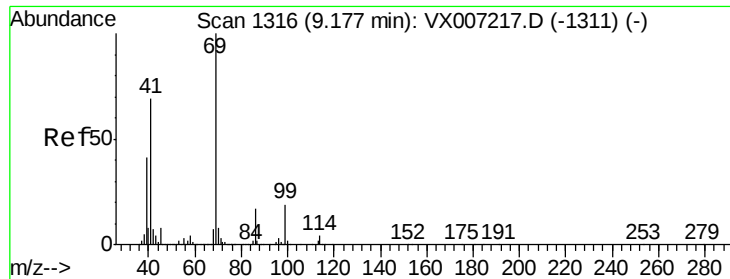


#50

1,1,2-Trichloroethane  
 Concen: 134.545 ug/l  
 RT: 9.21 min Scan# 1322  
 Delta R.T. -0.01 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.3  | 67.2  | 100.8 |
| 85      | 55.8  | 44.7  | 67.1  |
| 99      | 63.6  | 50.3  | 75.5  |





#51

Ethyl methacrylate

Concen: 127.698 ug/l

RT: 9.18 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 69 Resp: 1131522

Ion Ratio Lower Upper

69 100

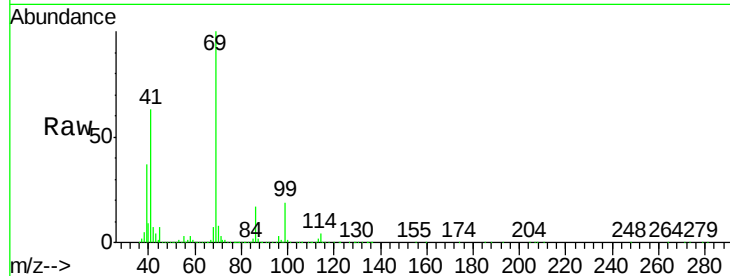
41 63.1 34.6 103.9

39 36.5 17.0 51.0

Manual Integrations  
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Abundance Ion 69.00 (68.70 to 69.70): VX007220.D (-1235) (-)

Ion 41.00 (40.70 to 41.70): VX007220.D (-1235) (-)

Ion 39.00 (38.70 to 39.70): VX007220.D (-1235) (-)

9.18

800000

600000

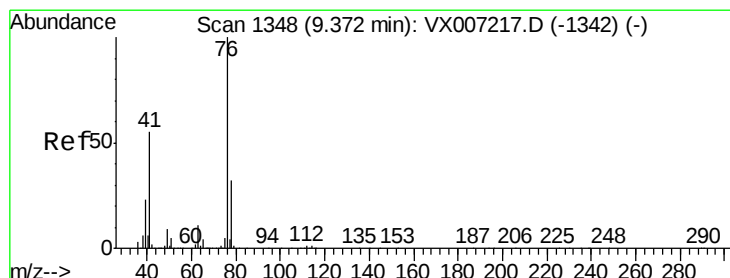
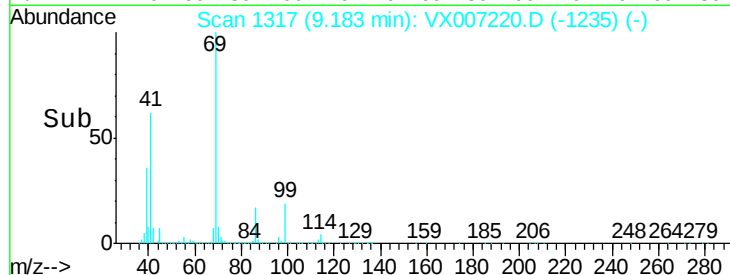
400000

200000

0

9.10 9.15 9.20 9.25 9.30

Time-->



#52

1,3-Dichloropropane

Concen: 127.329 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VX007220.D

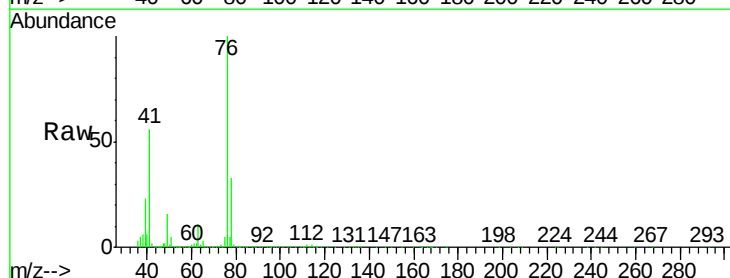
Acq: 25 Jan 2019 10:44

Tgt Ion: 76 Resp: 1199371

Ion Ratio Lower Upper

76 100

78 32.5 0.0 64.4



Abundance Ion 76.00 (75.70 to 76.70): VX007220.D (-1266) (-)

Ion 78.00 (77.70 to 78.70): VX007220.D (-1266) (-)

9.37

800000

600000

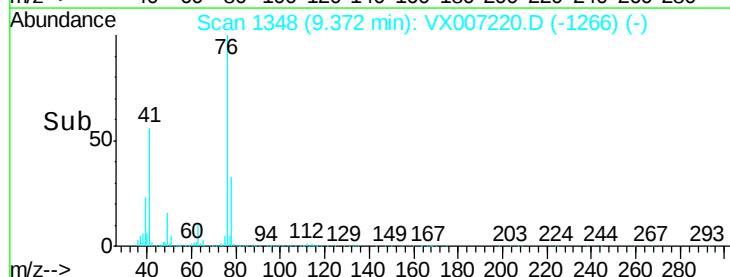
400000

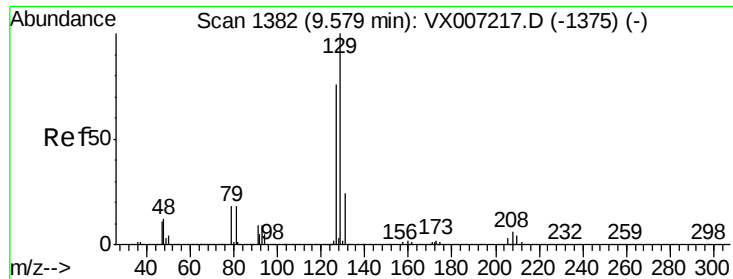
200000

0

9.30 9.35 9.40 9.45

Time-->





#53

Dibromochloromethane

Concen: 148.133 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion:129 Resp: 858085

Ion Ratio Lower Upper

129 100

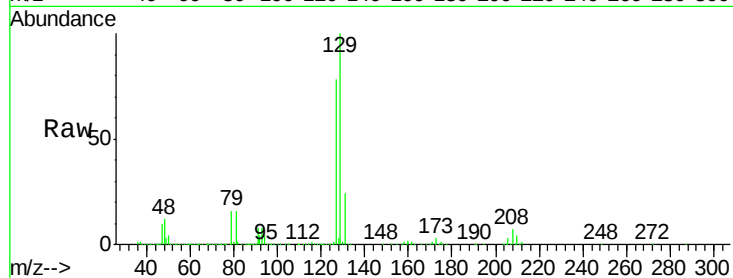
127 77.6 38.3 114.9

Manual Integrations

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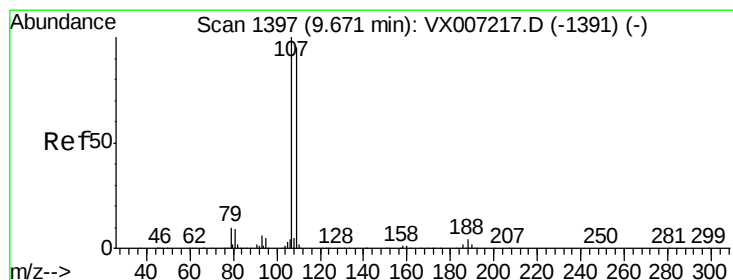
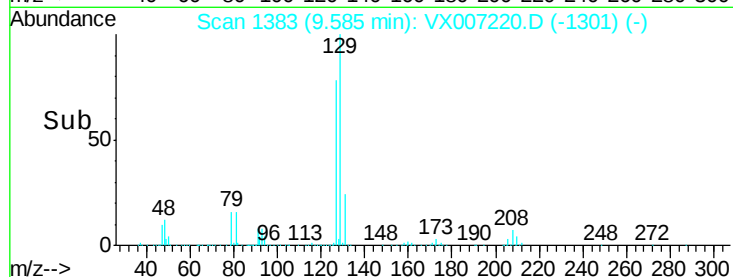
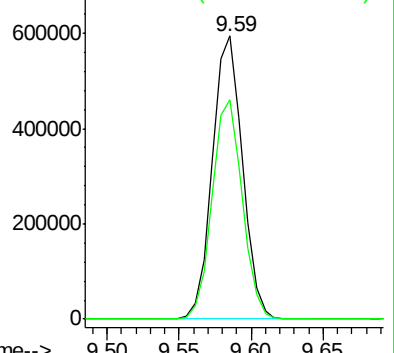
MMDadoda

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 142.229 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX007220.D

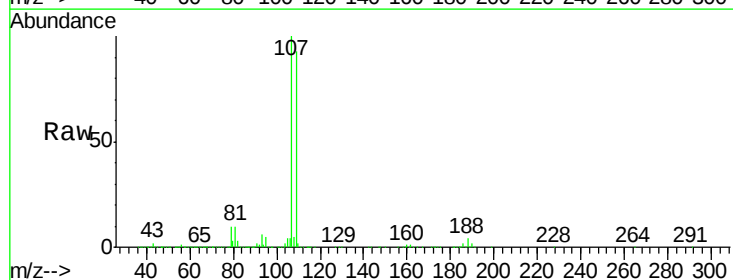
Acq: 25 Jan 2019 10:44

Tgt Ion:107 Resp: 827578

Ion Ratio Lower Upper

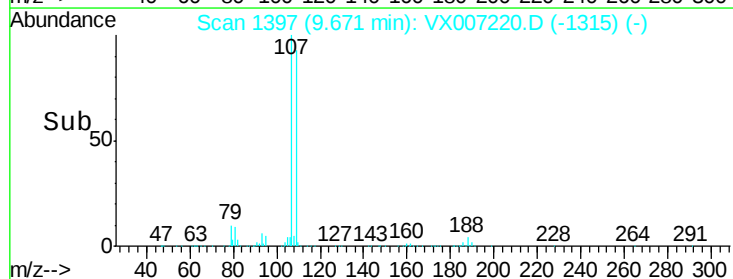
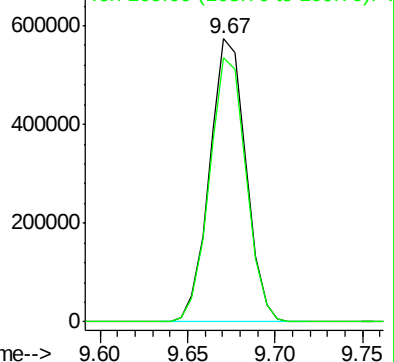
107 100

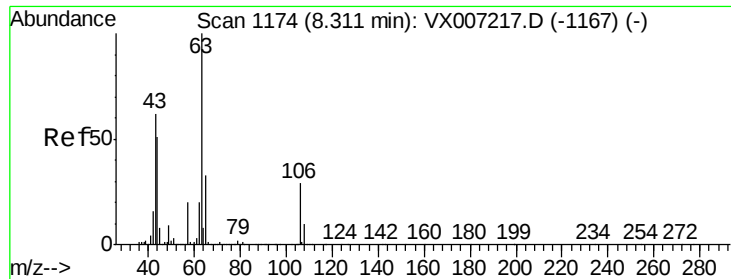
109 94.1 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 664.929 ug/l

RT: 8.32 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampled :

VSTDIC150

Tot Ion: 63 Resp: 3108944

Ion Ratio Lower Upper

63 100

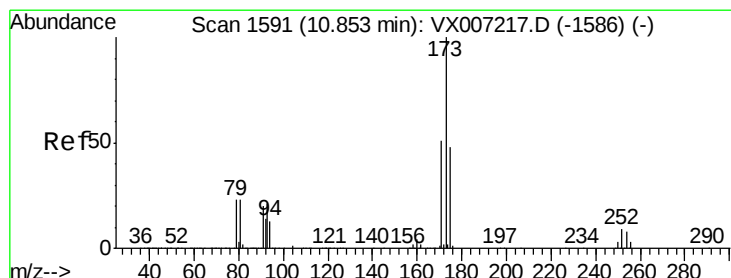
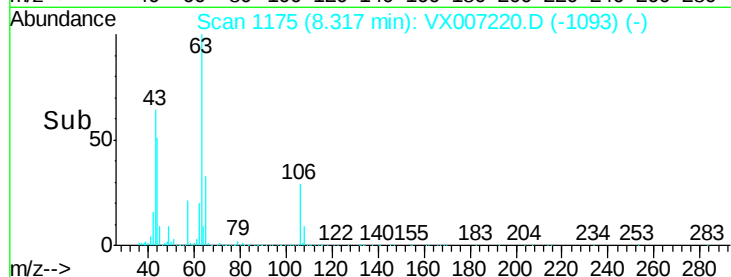
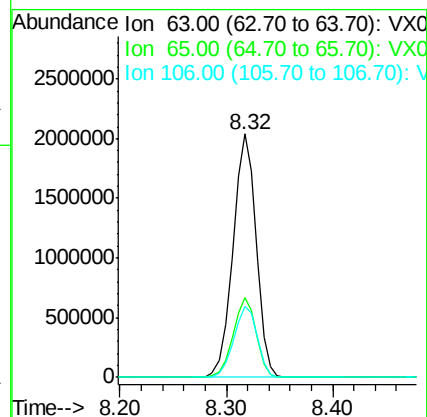
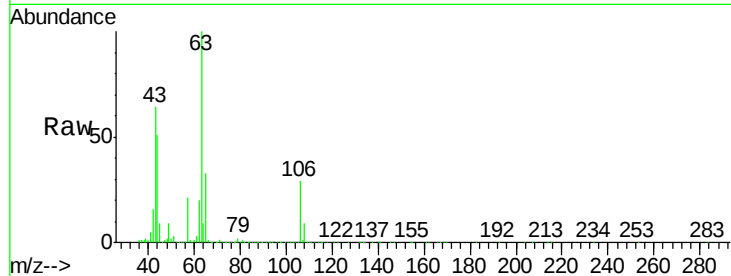
65 32.5 25.9 38.9

106 29.5 21.8 32.6

Manual Integrations  
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#56

Bromoform

Concen: 142.528 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

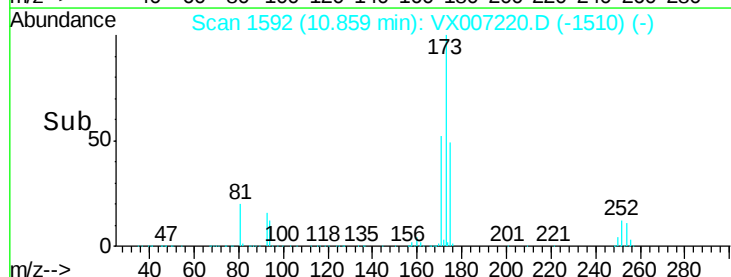
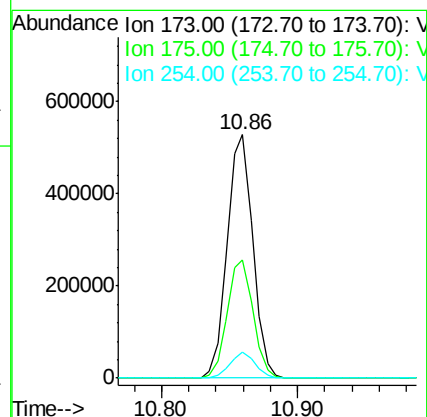
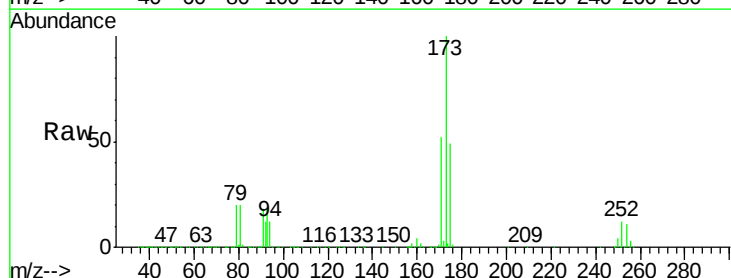
Tgt Ion: 173 Resp: 689491

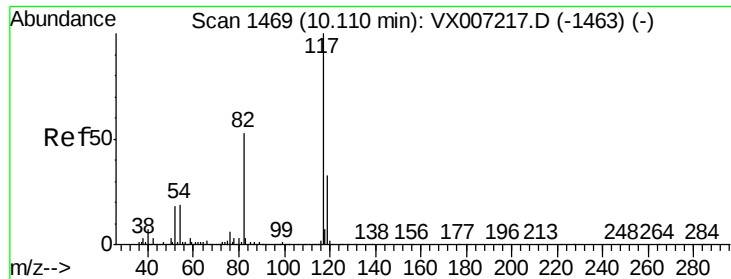
Ion Ratio Lower Upper

173 100

175 48.6 39.7 59.5

254 10.6 9.6 14.4





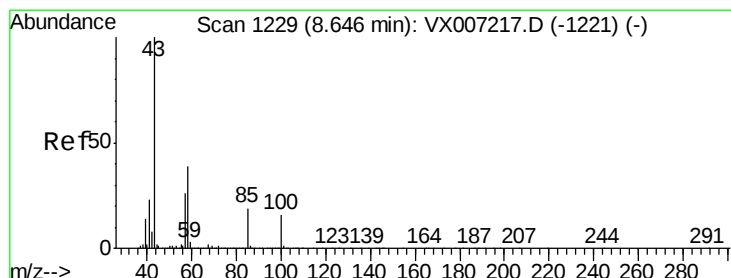
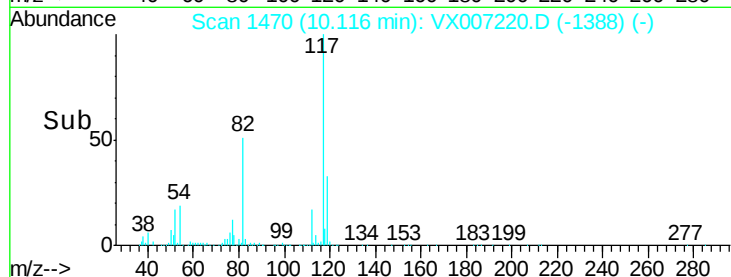
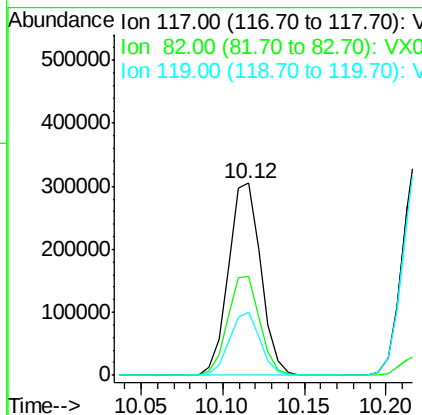
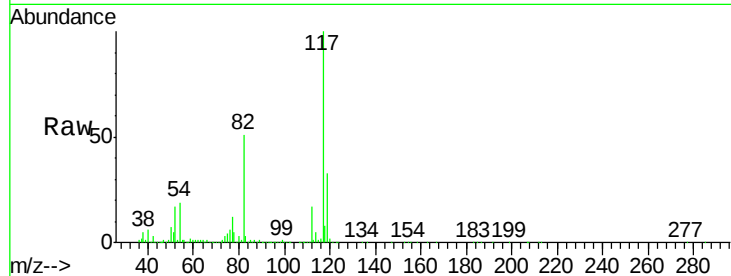
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.1  | 44.2  | 66.4  |
| 119     | 31.5  | 25.8  | 38.6  |

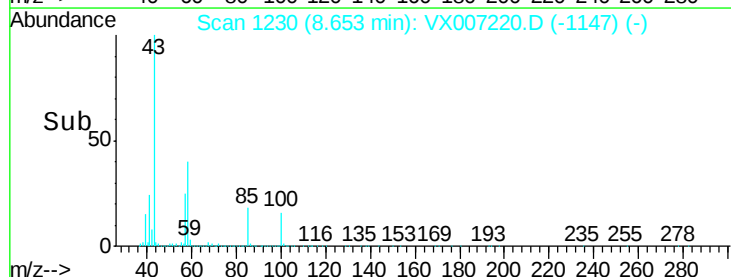
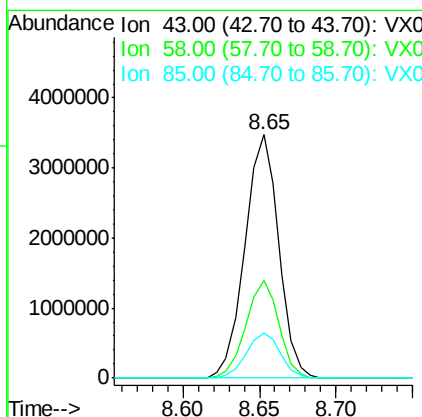
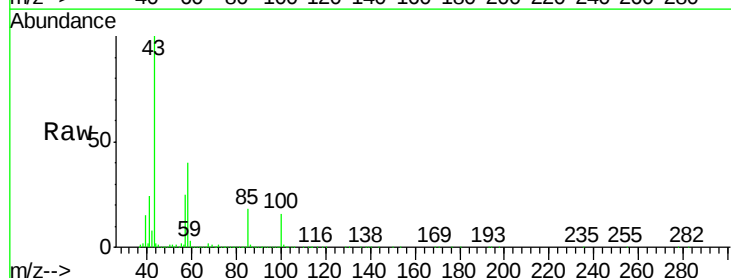
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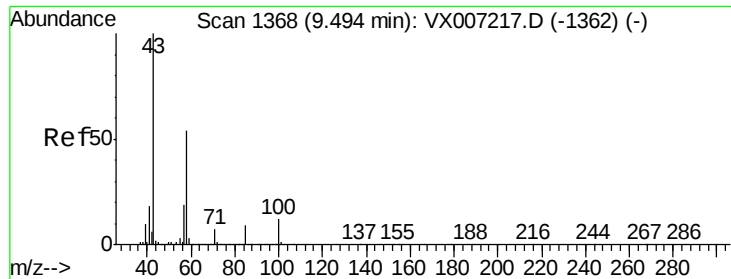
MMDadoda  
1/28/2019 12:05:17 PM



#58  
4-Methyl-2-Pentanone  
Concen: 565.667 ug/l  
RT: 8.65 min Scan# 1230  
Delta R.T. 0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 39.3  | 30.8  | 46.2  |
| 85      | 18.7  | 13.1  | 19.7  |





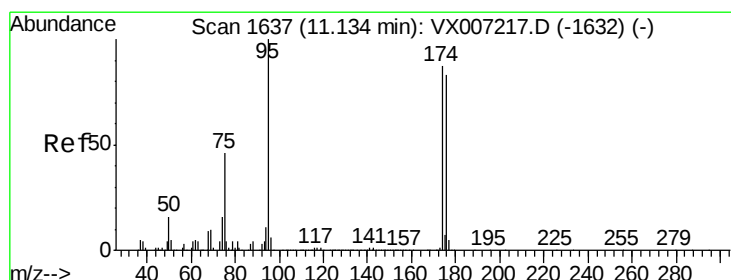
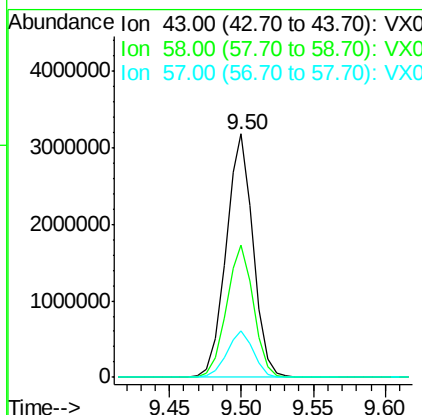
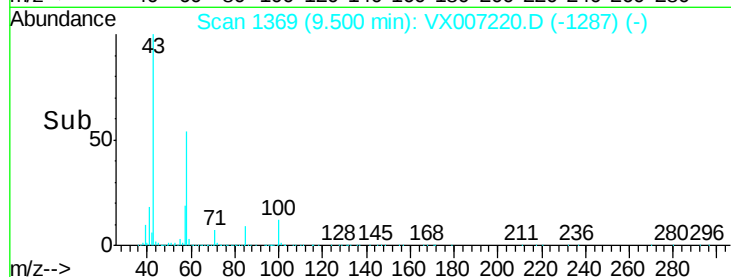
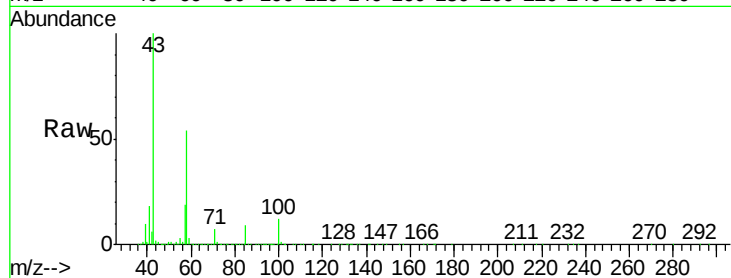
#59  
2-Hexanone  
Concen: 538.400 ug/l  
RT: 9.50 min Scan# 1369  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tot Ion: 43 Resp: 4174422  
Ion Ratio Lower Upper  
43 100  
58 54.5 42.7 64.1  
57 18.9 14.6 22.0

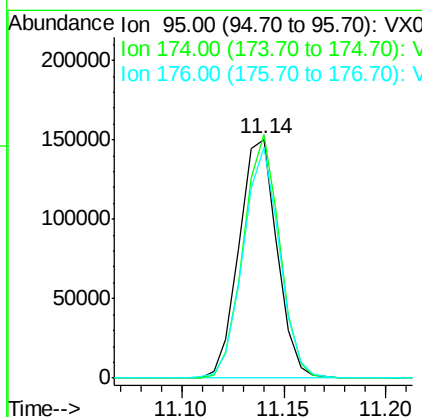
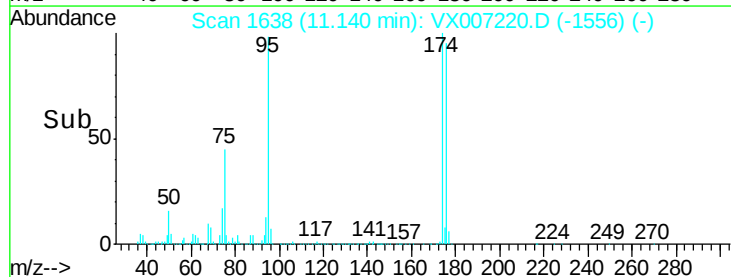
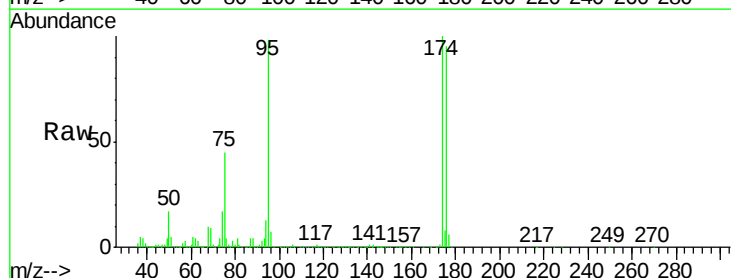
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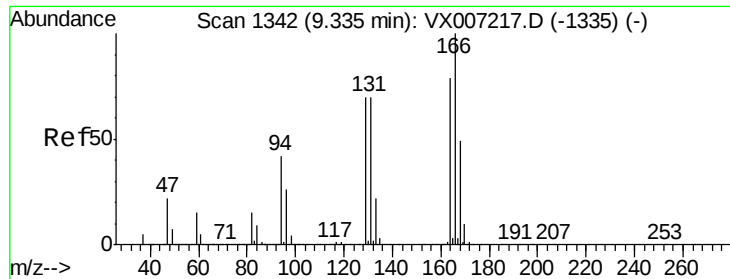
MMDadoda  
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#60  
4-Bromofluorobenzene  
Concen: 27.910 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Tgt Ion: 95 Resp: 194445  
Ion Ratio Lower Upper  
95 100  
174 97.2 73.1 109.7  
176 92.9 71.0 106.6





#61

Tetrachloroethene

Concen: 157.721 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 804478

Ion Ratio Lower Upper

164 100

166 126.8 104.0 156.0

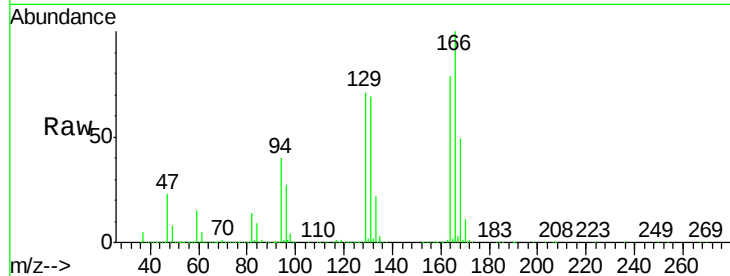
129 90.1 75.1 112.7

131 87.4 72.5 108.7

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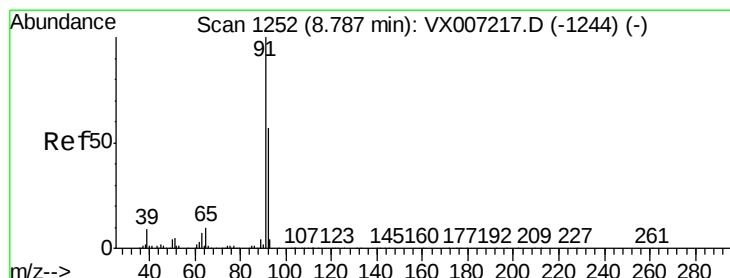
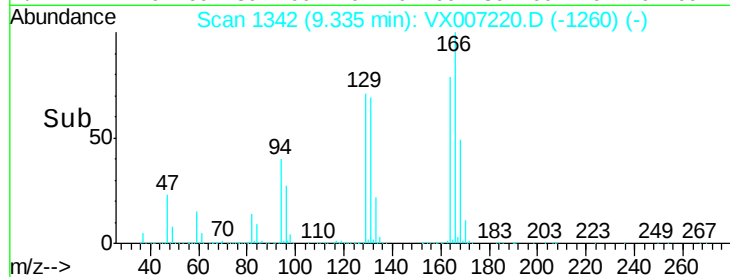
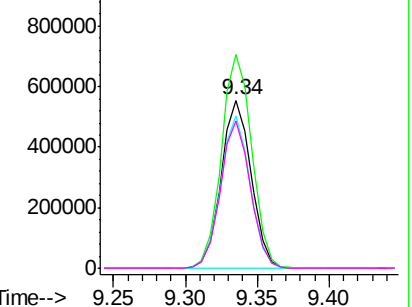


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 143.048 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX007220.D

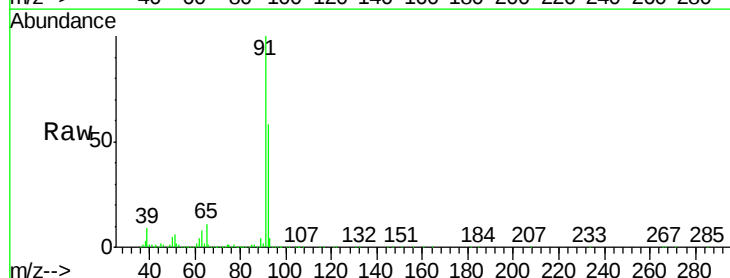
Acq: 25 Jan 2019 10:44

Tgt Ion: 91 Resp: 3150963

Ion Ratio Lower Upper

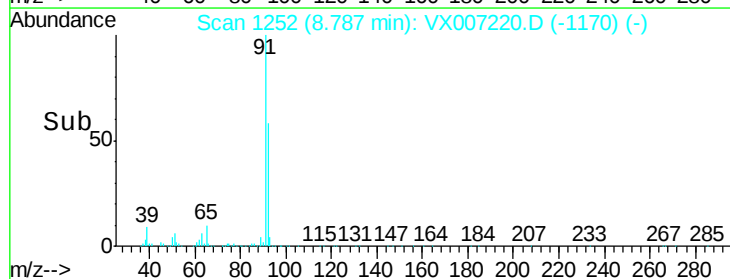
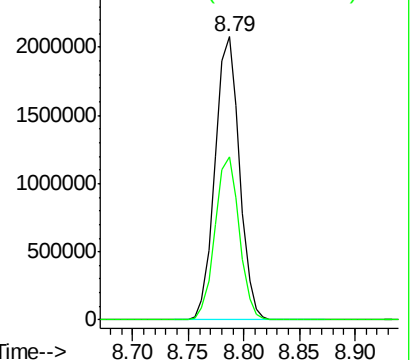
91 100

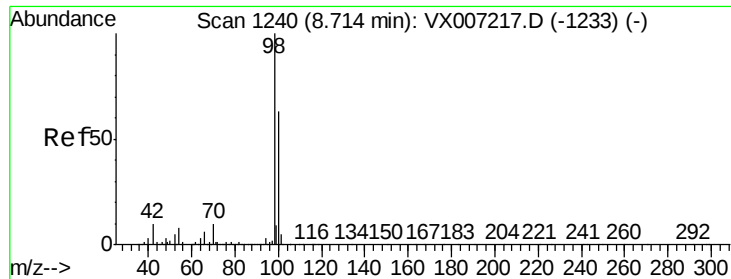
92 57.6 46.2 69.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





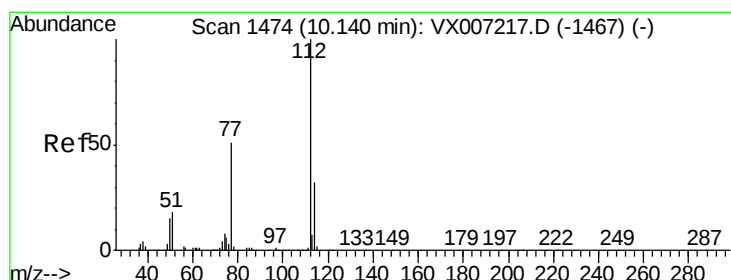
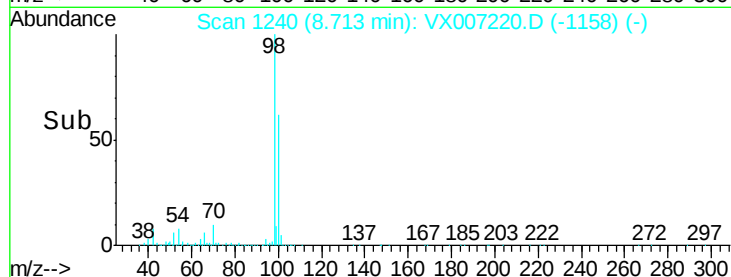
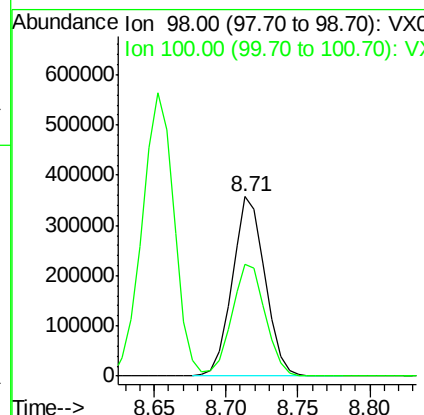
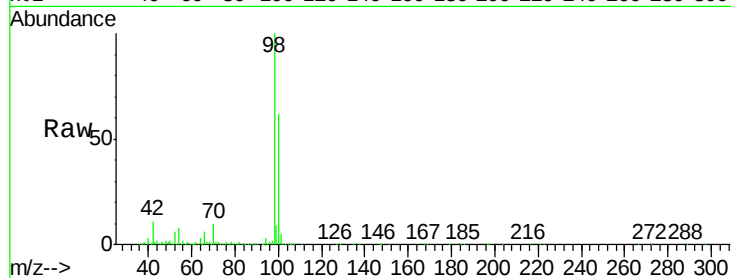
#63  
Toluene-d8  
Concen: 30.328 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tot Ion: 98 Resp: 567406  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.6 77.4

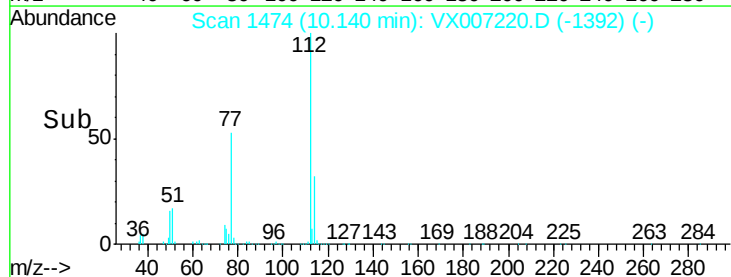
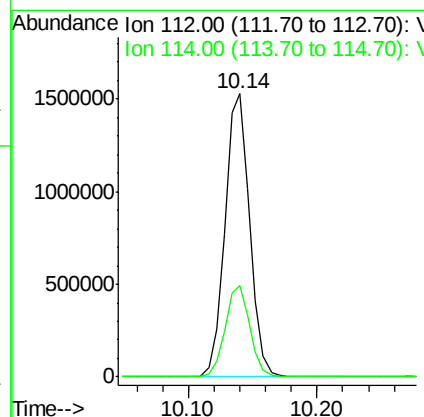
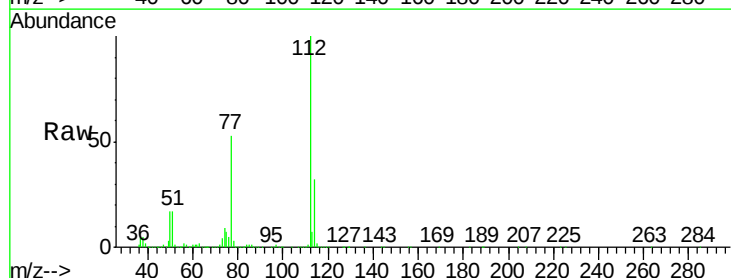
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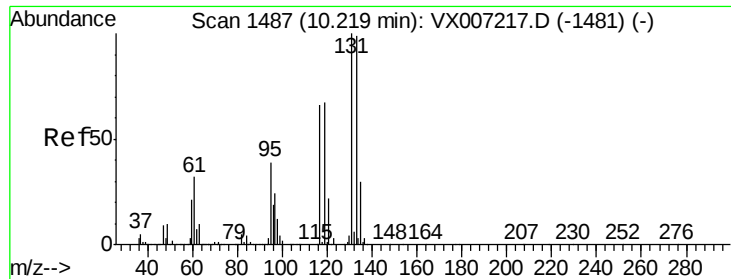
MMDadoda  
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#64  
Chlorobenzene  
Concen: 144.612 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Tgt Ion: 112 Resp: 2057144  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.7 38.5





#65

1,1,1,2-Tetrachloroethane

Concen: 150.995 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

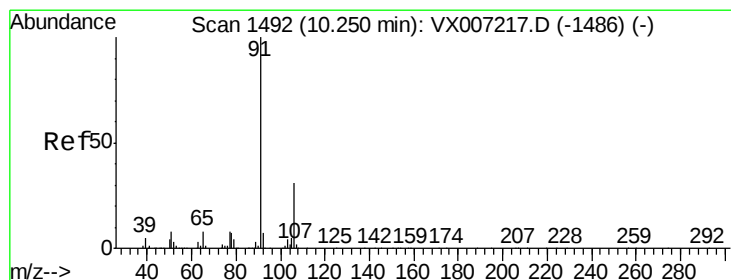
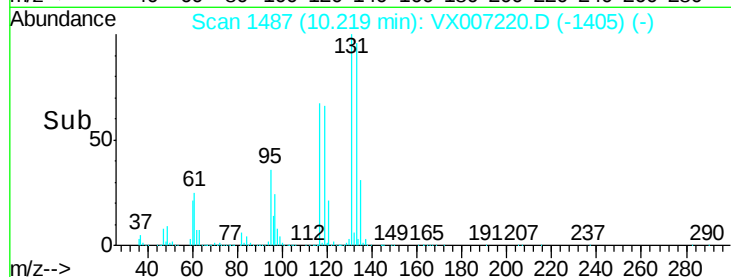
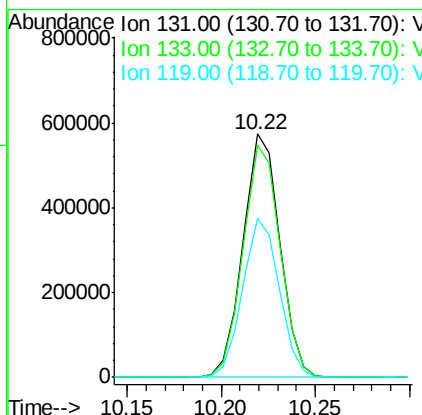
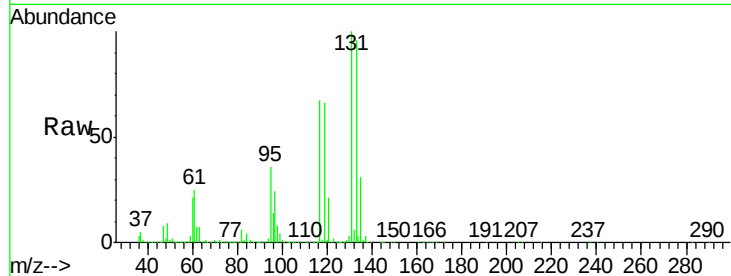
ClientSampleId :

VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 131   | Resp: | 780821 |
| Ion Ratio | Lower | Upper |        |
| 131       | 100   |       |        |
| 133       | 95.9  | 0.0   | 190.4  |
| 119       | 64.8  | 0.0   | 129.0  |

Manual Integrations  
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#66

Ethyl Benzene

Concen: 142.739 ug/l

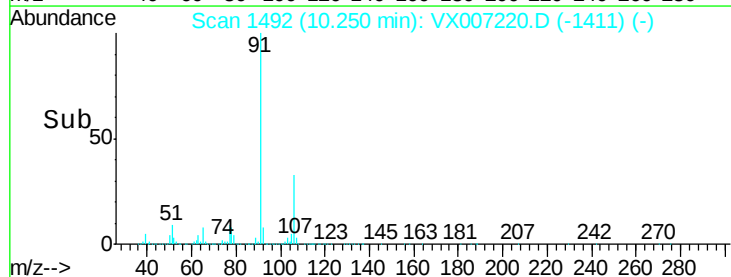
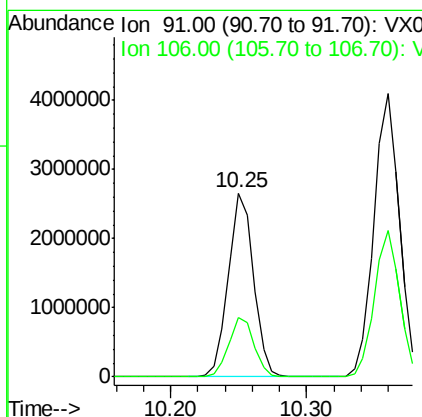
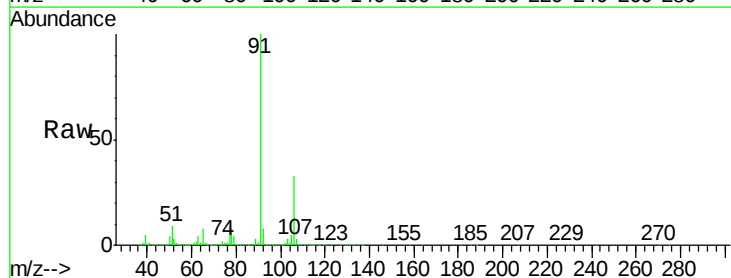
RT: 10.25 min Scan# 1492

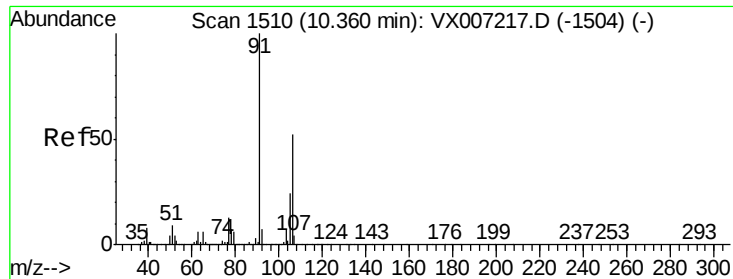
Delta R.T. -0.01 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 3432535 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 106       | 32.7  | 24.5  | 36.7    |





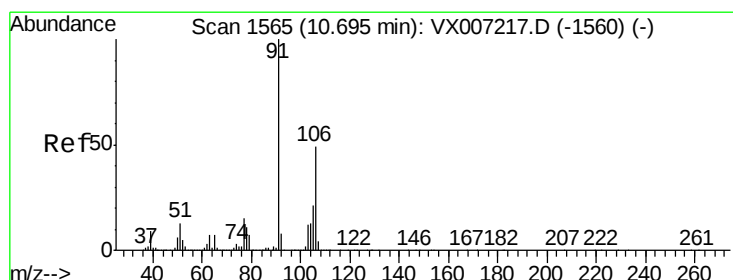
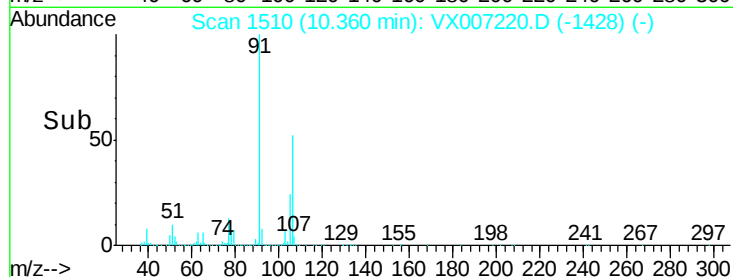
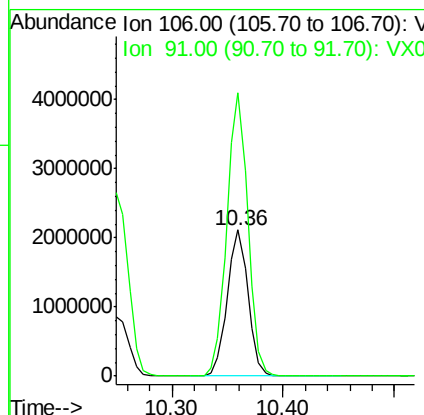
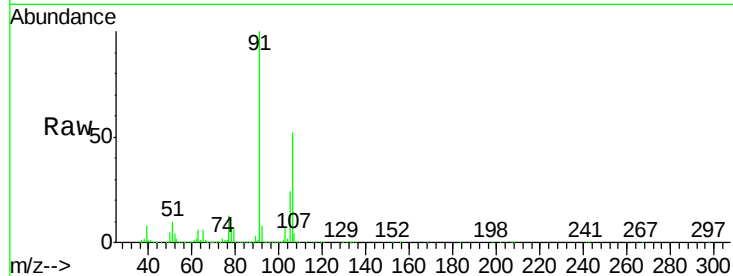
#67  
m/p-Xylenes  
Concen: 292.732 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tot Ion:106 Resp: 2740957  
Ion Ratio Lower Upper  
106 100  
91 195.5 165.5 248.3

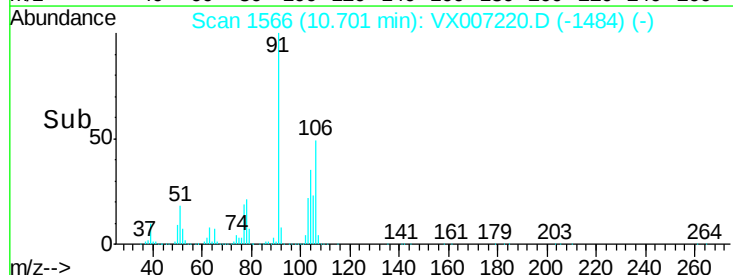
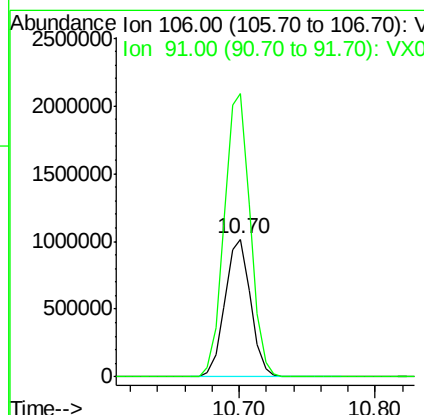
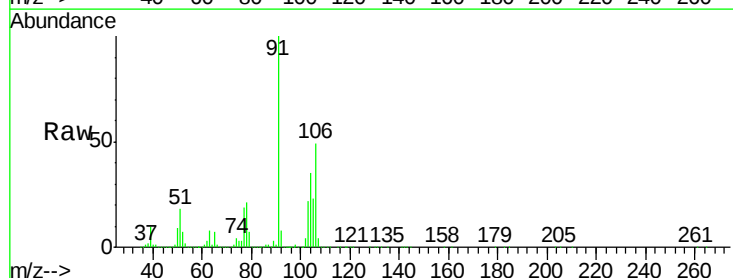
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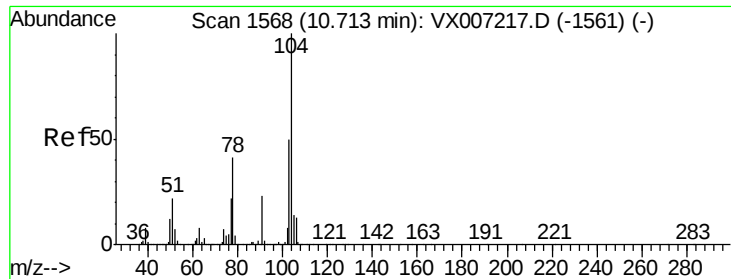
MMDadoda  
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#68  
o-Xylene  
Concen: 146.704 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Tgt Ion:106 Resp: 1324112  
Ion Ratio Lower Upper  
106 100  
91 208.6 109.1 327.2





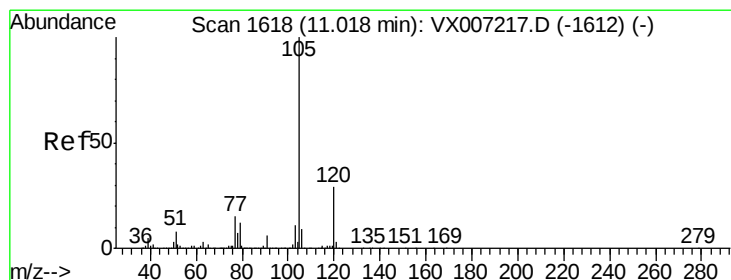
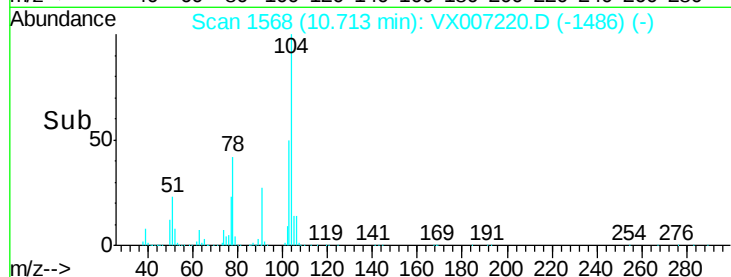
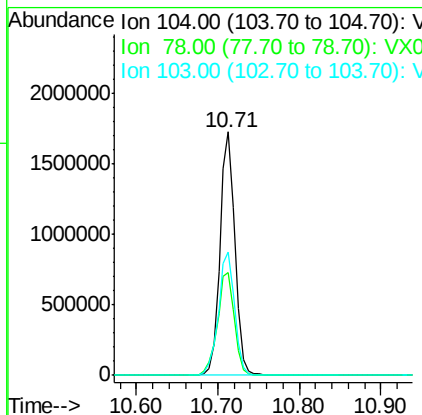
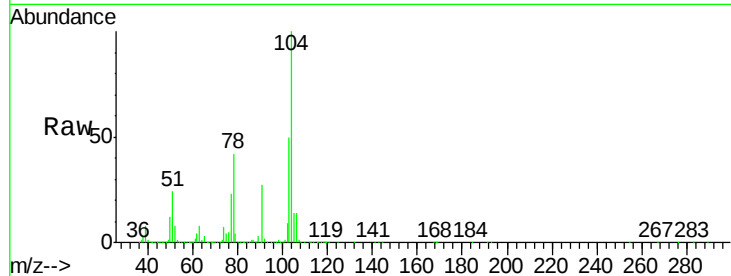
#69  
Stvrene  
Concen: 146.369 ug/l  
RT: 10.71 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 48.1  | 40.3  | 60.5  |
| 103     | 55.4  | 44.6  | 66.8  |

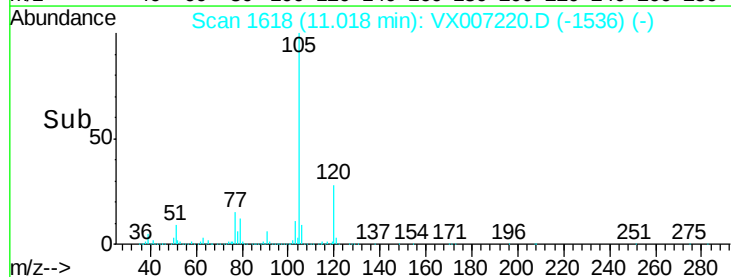
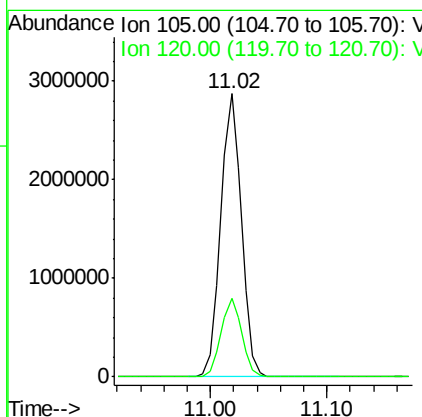
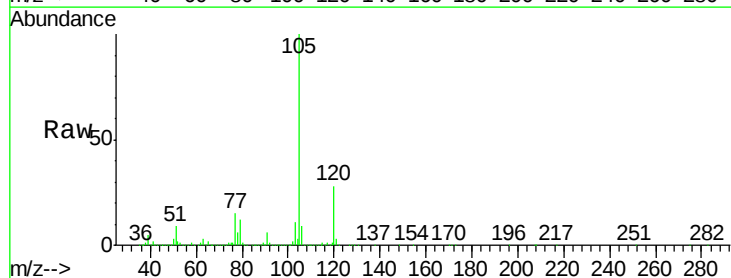
Manual Integrations  
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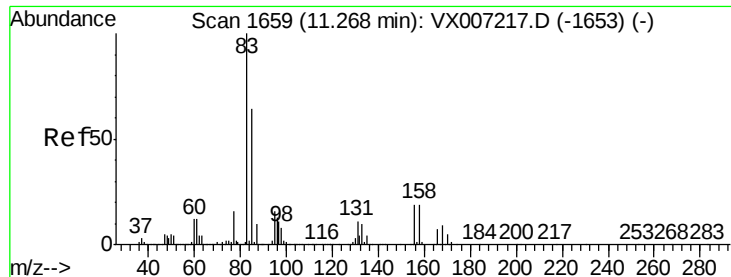
MMDadoda  
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#70  
Isopropylbenzene  
Concen: 145.156 ug/l  
RT: 11.02 min Scan# 1618  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.8  | 18.3  | 34.1  |





#71

1,1,2,2-Tetrachloroethane

Concen: 128.256 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1151341

Ion Ratio Lower Upper

83 100

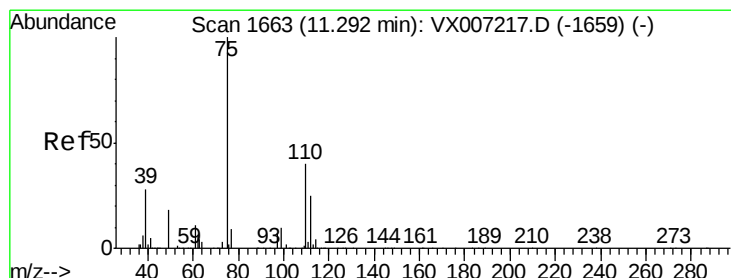
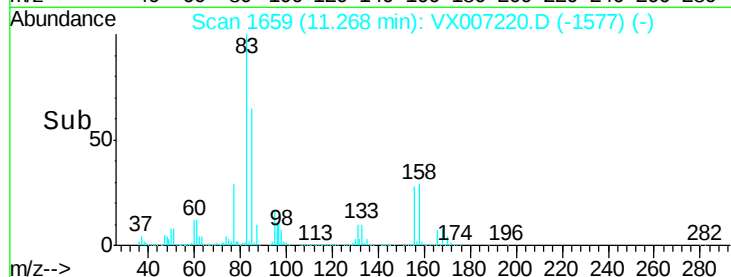
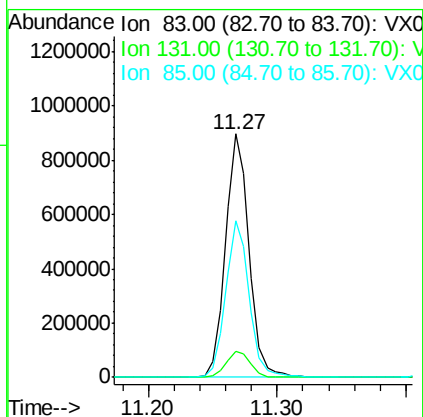
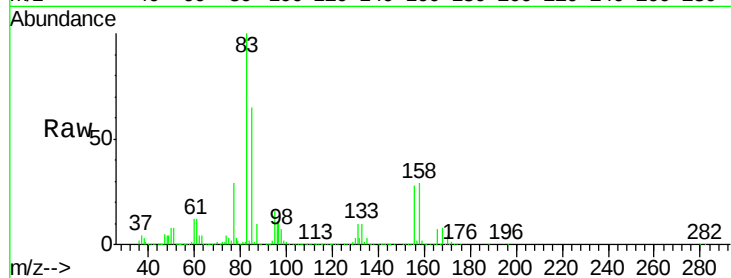
131 10.9 5.1 15.2

85 64.3 32.2 96.6

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#72

1,2,3-Trichloropropane

Concen: 128.575 ug/l m

RT: 11.30 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VX007220.D

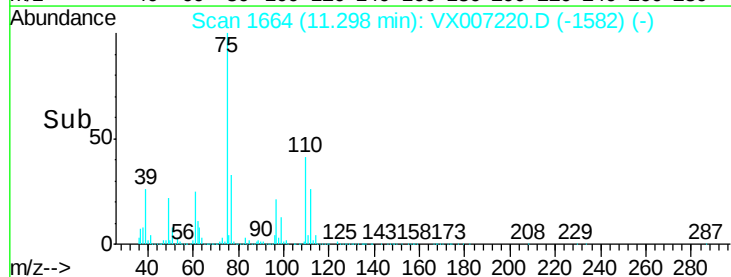
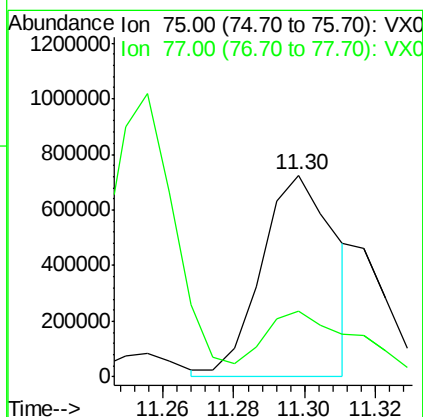
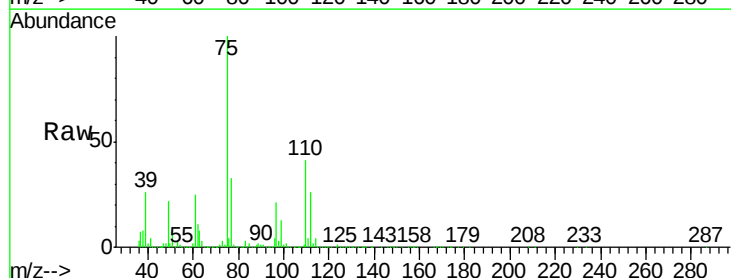
Acq: 25 Jan 2019 10:44

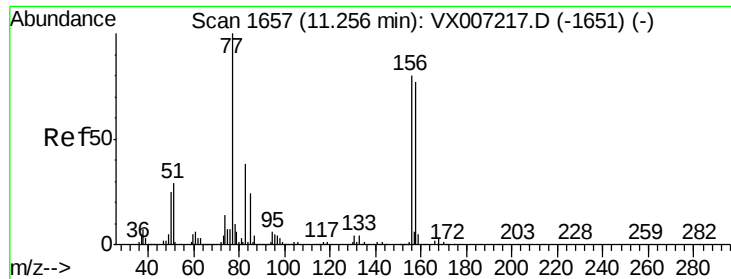
Tgt Ion: 75 Resp: 1051514

Ion Ratio Lower Upper

75 100

77 38.7 0.0 81.2





#73

Bromobenzene

Concen: 145.501 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

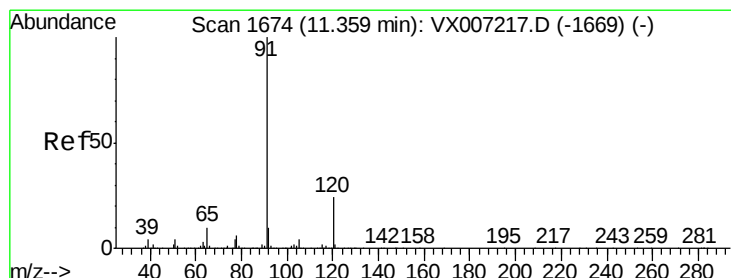
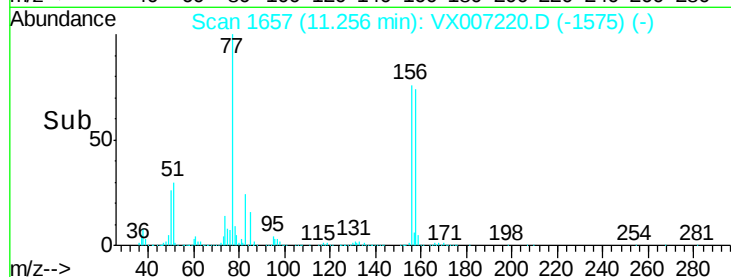
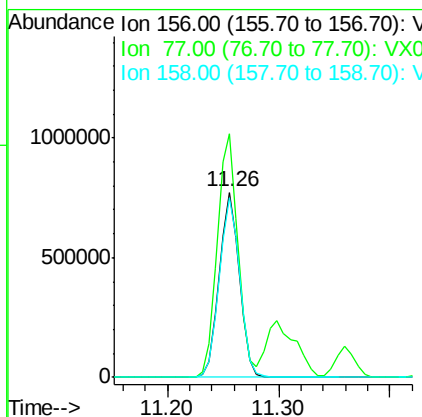
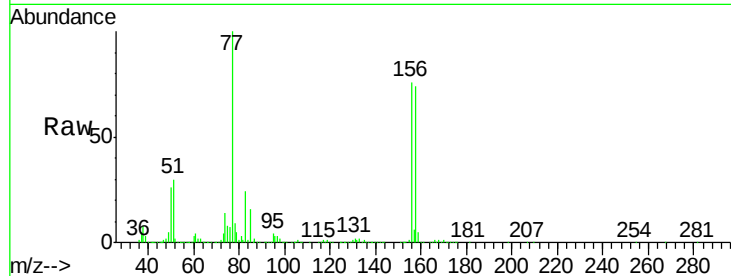
ClientSampled :

VSTDIC150

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 156     | 100   | 966648 |       |       |
| 77      | 135.5 | 0.0    | 292.4 |       |
| 158     | 98.5  | 0.0    | 194.2 |       |

Manual Integrations  
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#74

n-propylbenzene

Concen: 140.909 ug/l

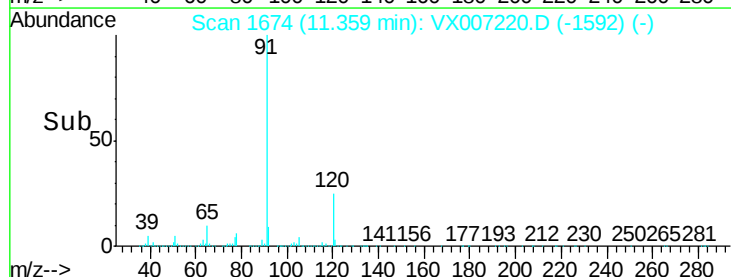
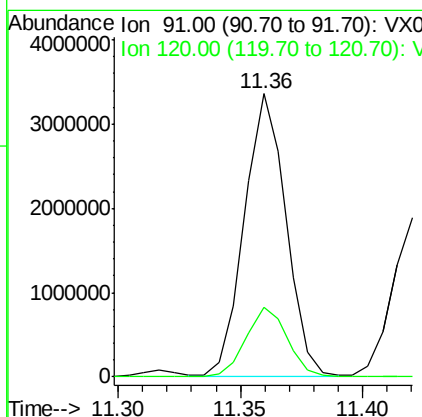
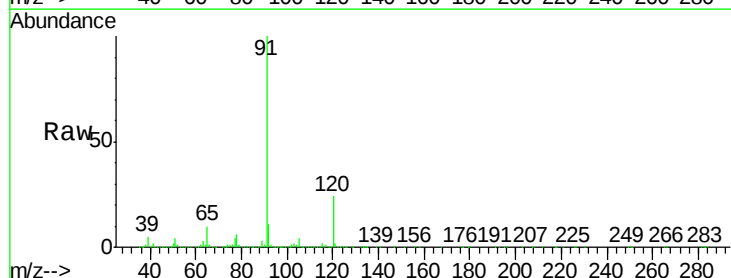
RT: 11.36 min Scan# 1674

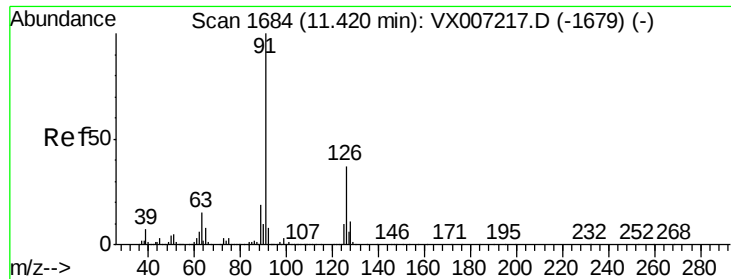
Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 91      | 100   | 4007026 |       |       |
| 120     | 24.5  | 0.0     | 45.4  |       |





#75

2-Chlorotoluene

Concen: 134.628 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2334896

Ion Ratio Lower Upper

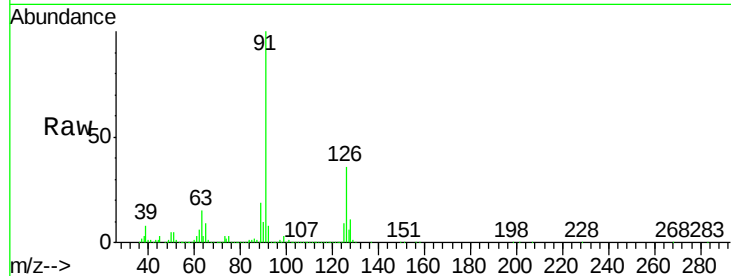
91 100

126 36.8 0.0 68.2

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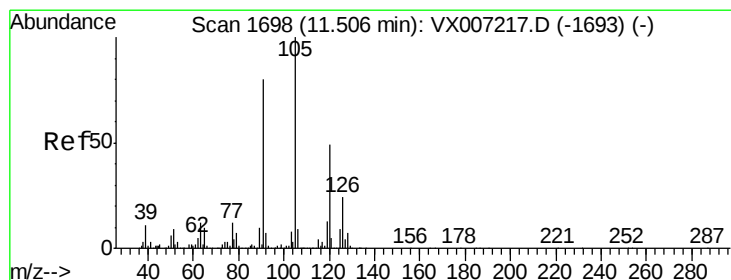
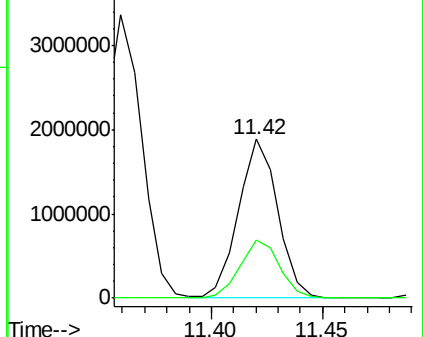
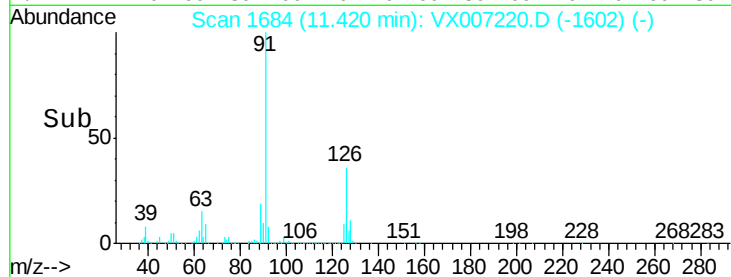
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Abundance Ion 91.00 (90.70 to 91.70): VX007217.D (-1679) (-)

Ion 126.00 (125.70 to 126.70): VX007217.D (-1679) (-)



#76

1,3,5-Trimethylbenzene

Concen: 143.729 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007220.D

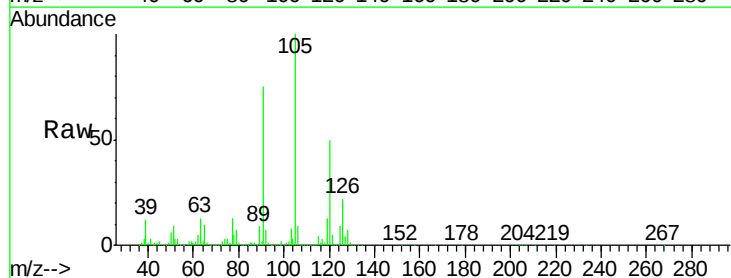
Acq: 25 Jan 2019 10:44

Tgt Ion: 105 Resp: 2997227

Ion Ratio Lower Upper

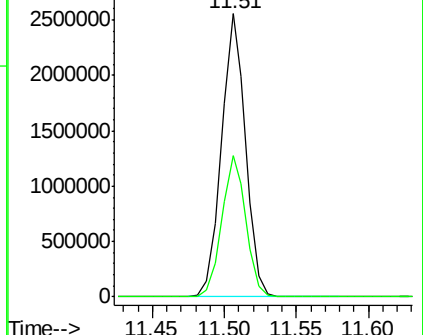
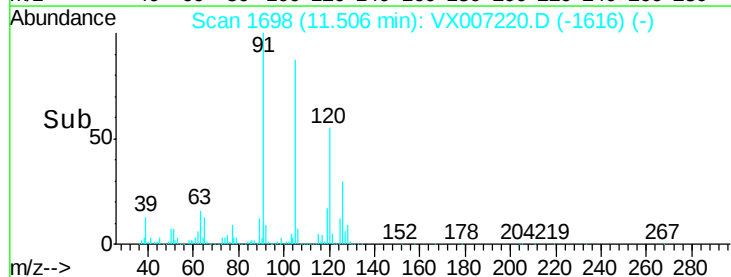
105 100

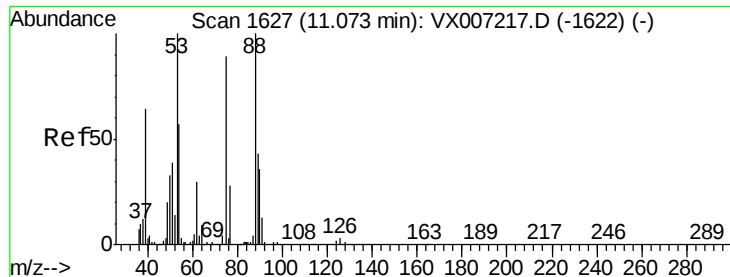
120 49.7 0.0 96.8



Abundance Ion 105.00 (104.70 to 105.70): VX007217.D (-1693) (-)

Ion 120.00 (119.70 to 120.70): VX007217.D (-1693) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 143.511 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

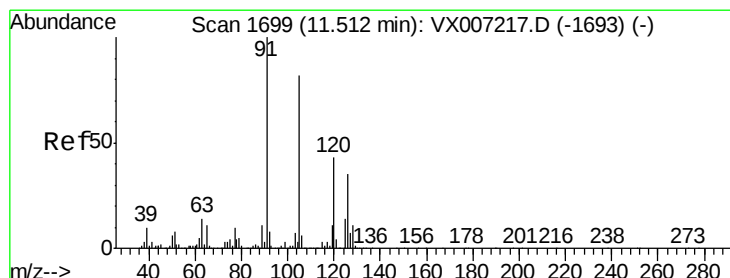
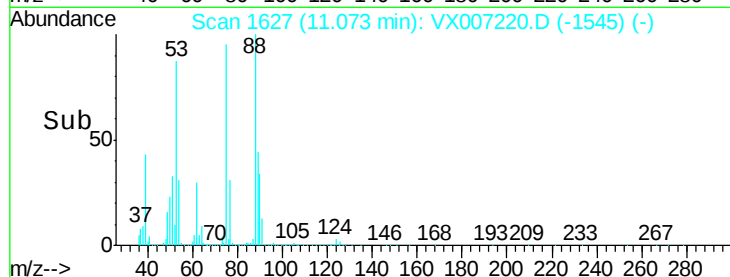
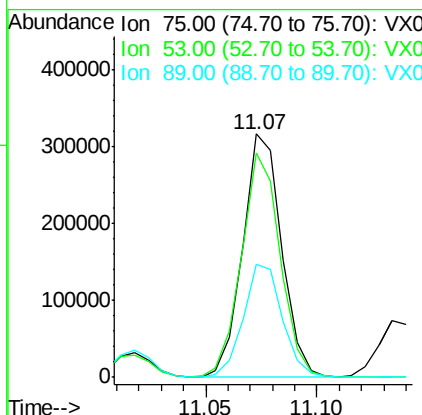
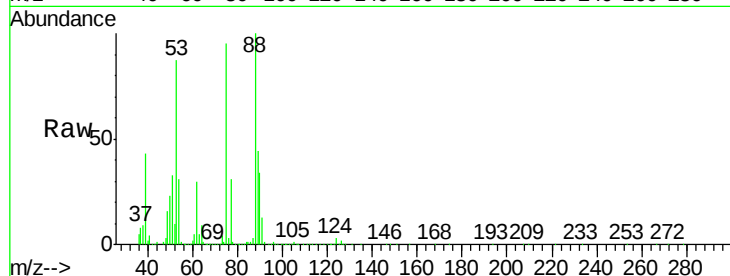
ClientSampleId :

VSTDIC150

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 75    | Resp: | 385882 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 53        | 92.0  | 50.3  | 150.9  |
| 89        | 46.1  | 22.6  | 67.8   |

Manual Integrations  
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#78

4-Chlorotoluene

Concen: 139.462 ug/l

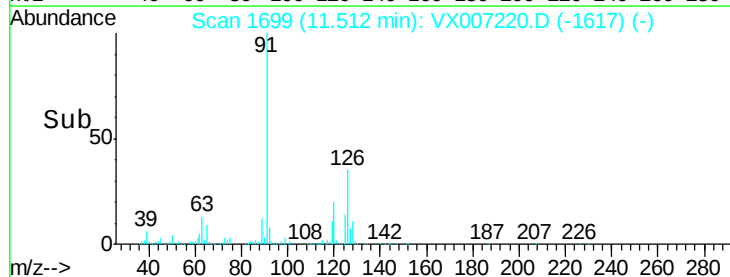
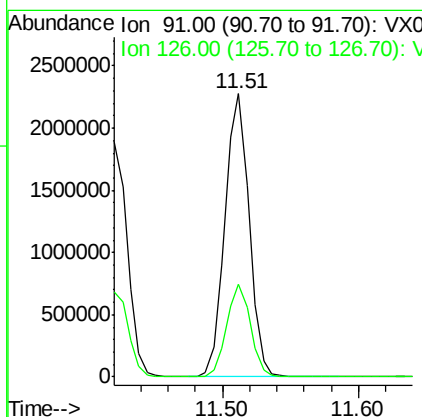
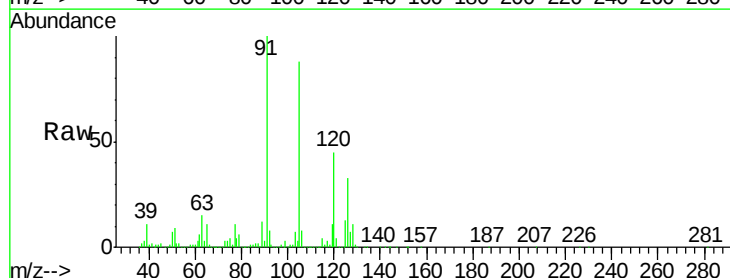
RT: 11.51 min Scan# 1699

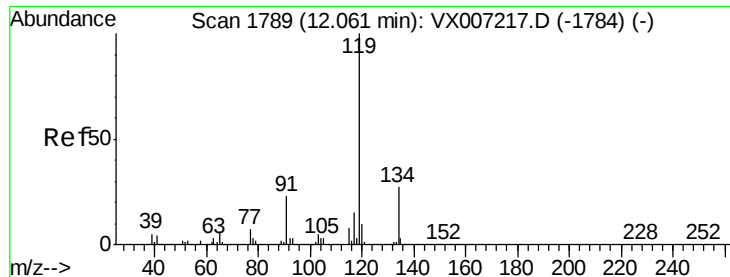
Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 2811403 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 126       | 32.2  | 0.0   | 61.0    |





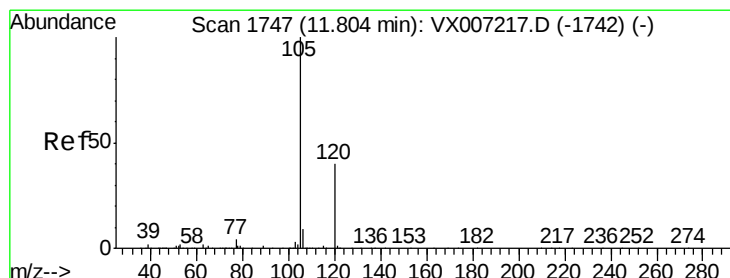
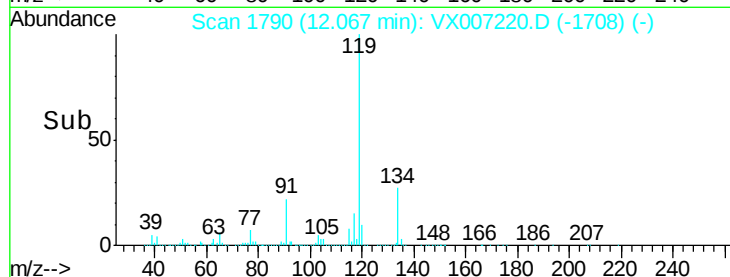
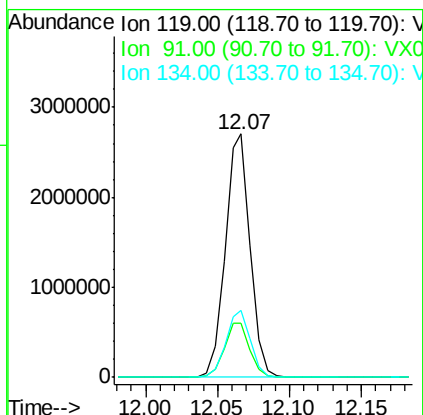
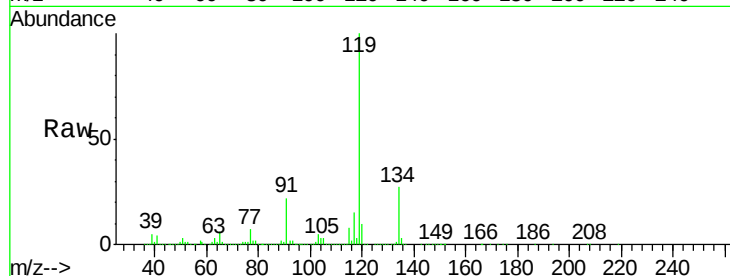
#79  
tert-butylbenzene  
Concen: 147.538 ug/l  
RT: 12.07 min Scan# 1790  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 22.8  | 0.0   | 45.8  |
| 134     | 27.2  | 0.0   | 52.8  |

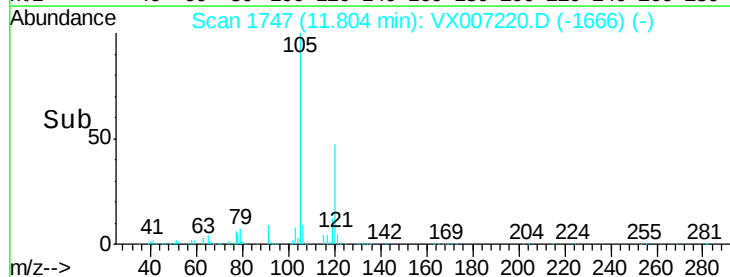
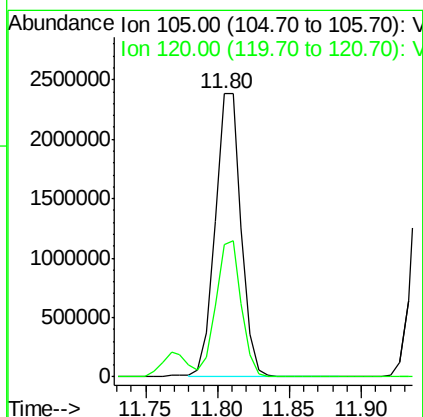
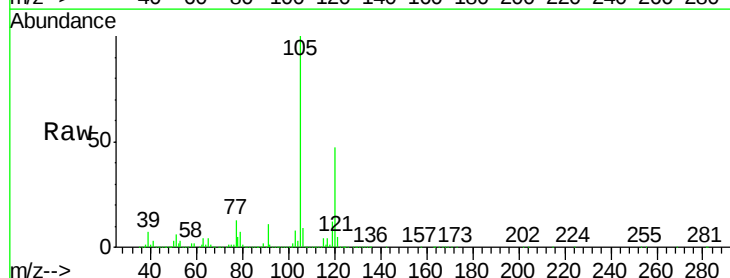
Manual Integrations  
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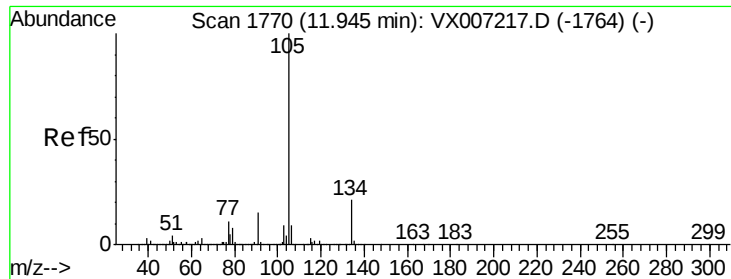
MMDadoda  
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#80  
1,2,4-Trimethylbenzene  
Concen: 141.059 ug/l  
RT: 11.80 min Scan# 1747  
Delta R.T. -0.01 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.1  | 0.0   | 90.6  |





#81

sec-Butylbenzene

Concen: 146.138 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 3597322

Ion Ratio Lower Upper

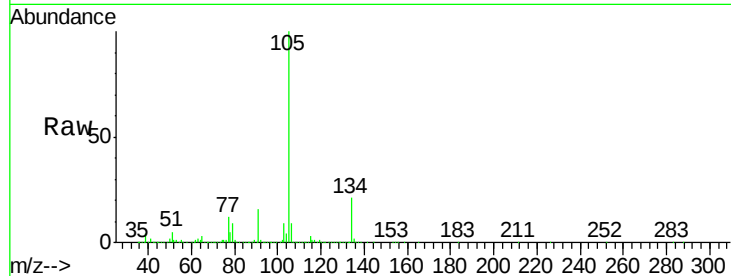
105 100

134 21.1 0.0 40.4

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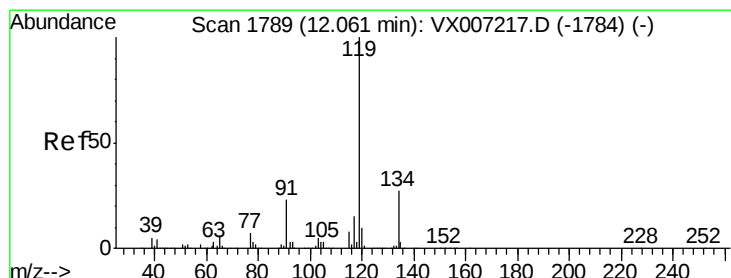
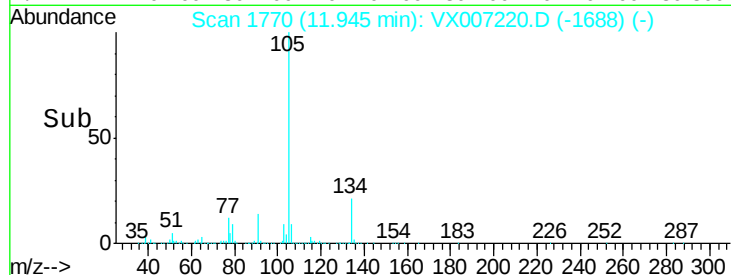
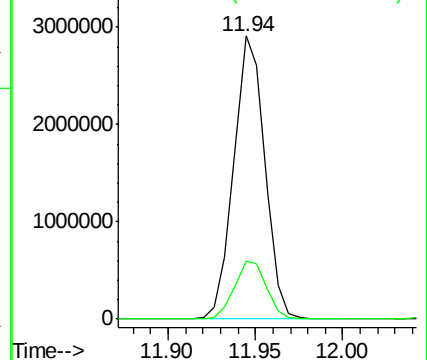
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 147.538 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX007220.D

Acq: 25 Jan 2019 10:44

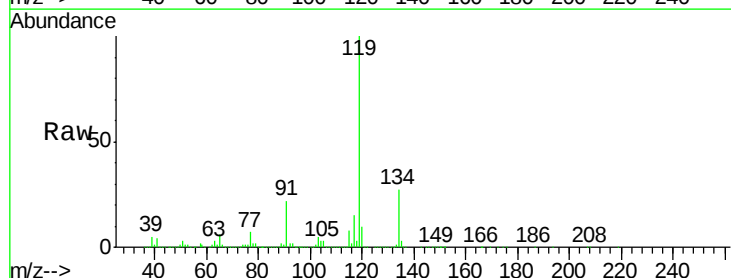
Tgt Ion:119 Resp: 3265188

Ion Ratio Lower Upper

119 100

134 27.2 0.0 52.8

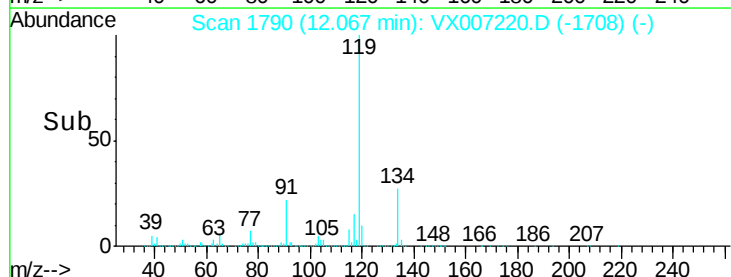
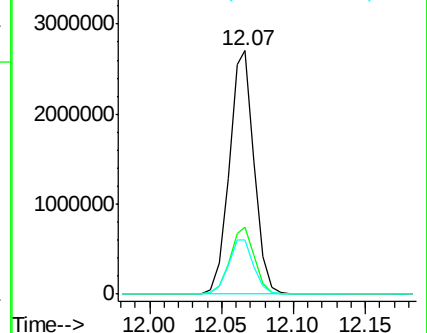
91 22.8 0.0 45.8

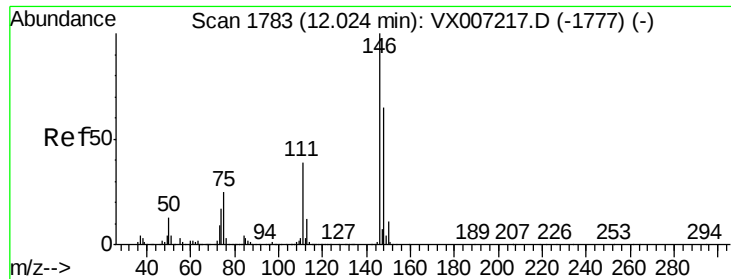


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





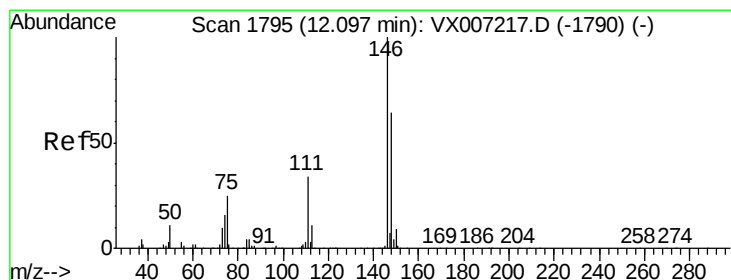
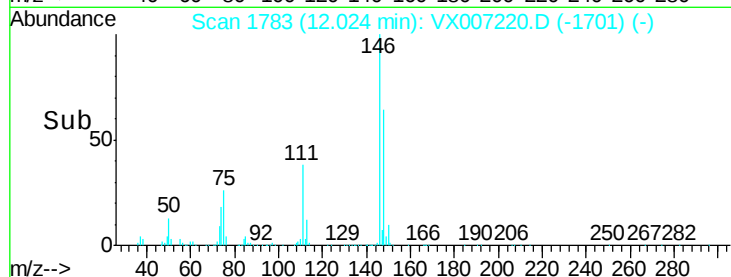
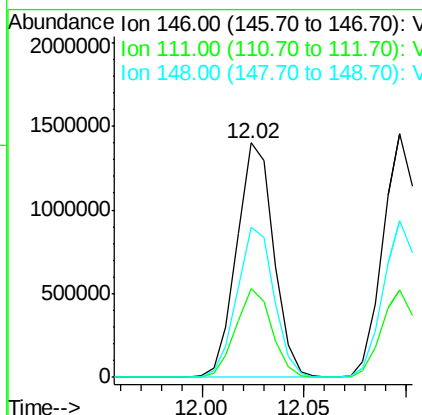
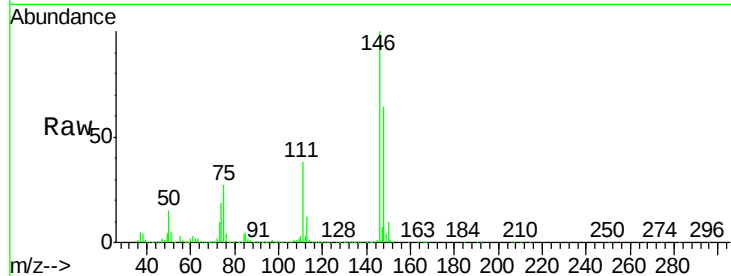
#83  
 1,3-Dichlorobenzene  
 Concen: 143.674 ug/l  
 RT: 12.02 min Scan# 1783  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

Tot Ion:146 Resp: 1765072  
 Ion Ratio Lower Upper  
 146 100  
 111 36.9 19.3 57.8  
 148 64.1 32.4 97.2

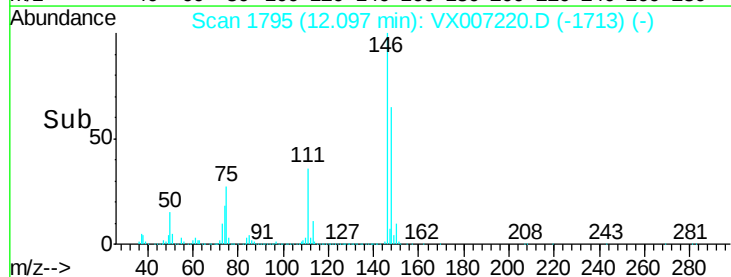
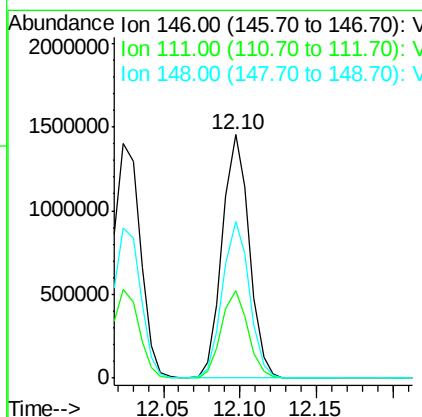
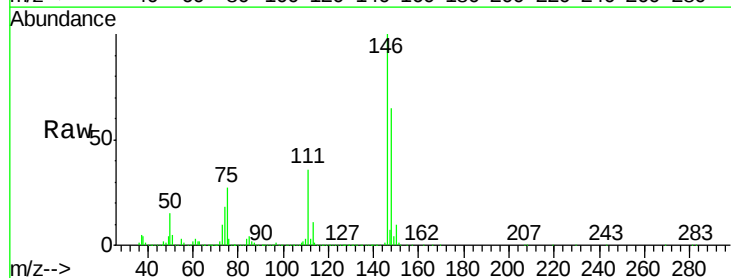
Manual Integrations  
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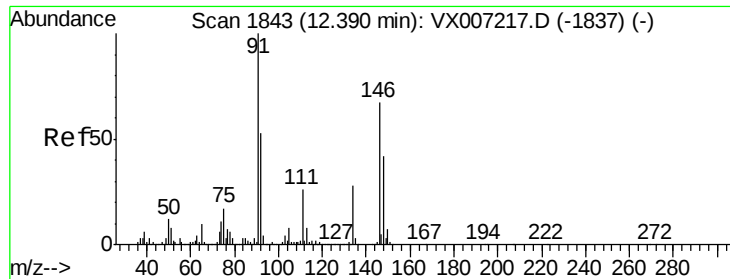
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#84  
 1,4-Dichlorobenzene  
 Concen: 142.671 ug/l  
 RT: 12.10 min Scan# 1795  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Tgt Ion:146 Resp: 1778701  
 Ion Ratio Lower Upper  
 146 100  
 111 35.7 18.1 54.4  
 148 64.2 31.9 95.7





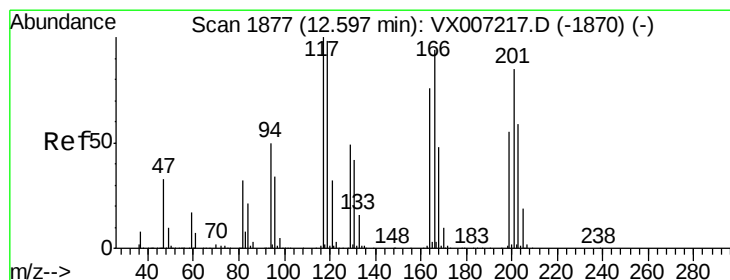
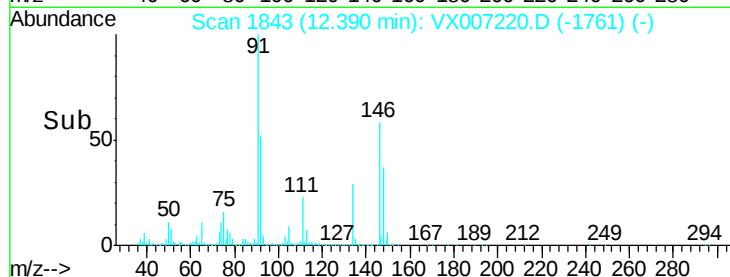
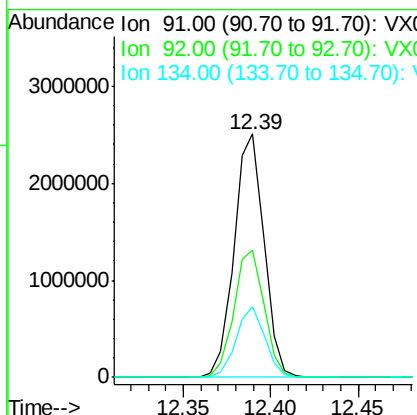
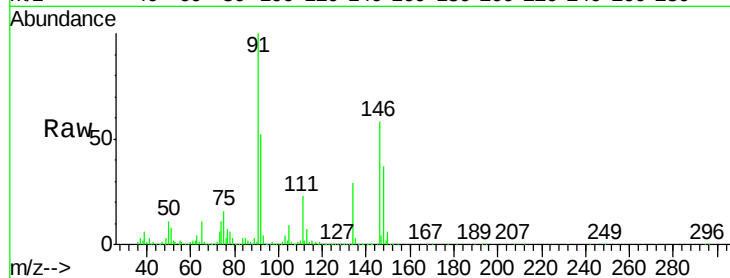
#85  
n-Butylbenzene  
Concen: 148.030 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tot Ion: 91 Resp: 2975557  
Ion Ratio Lower Upper  
91 100  
92 52.8 0.0 103.6  
134 28.0 0.0 52.2

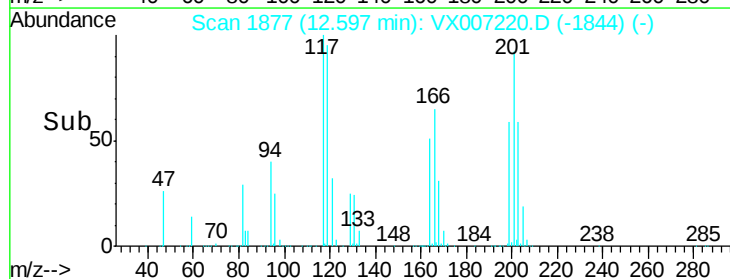
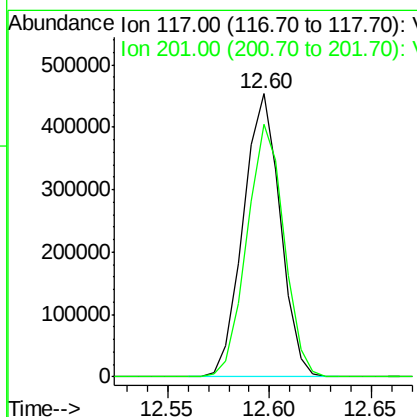
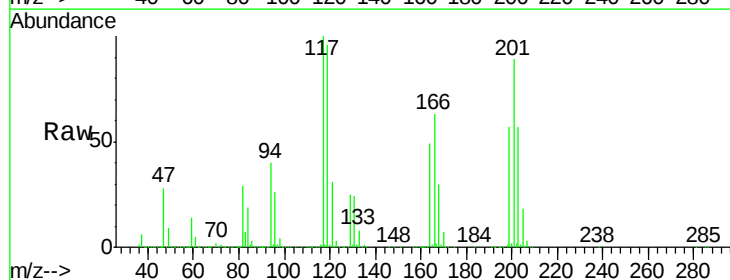
Manual Integrations  
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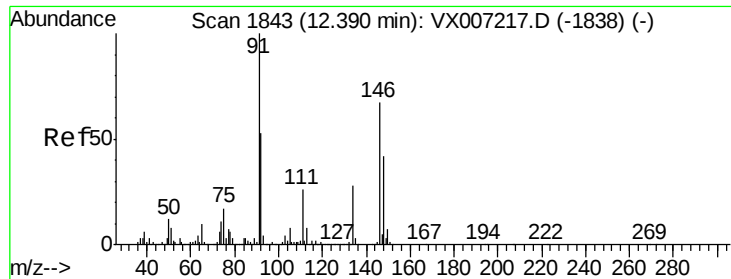
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#86  
Hexachloroethane  
Concen: 156.856 ug/l  
RT: 12.60 min Scan# 1877  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Tgt Ion: 117 Resp: 571810  
Ion Ratio Lower Upper  
117 100  
201 89.5 47.1 141.4





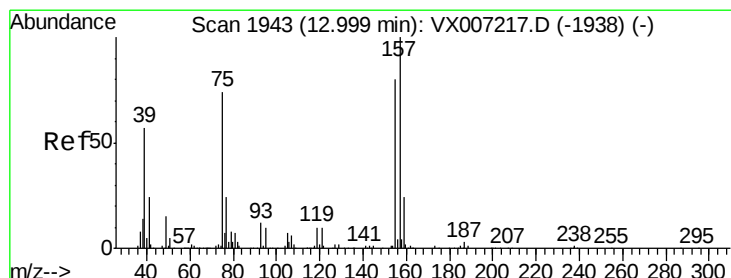
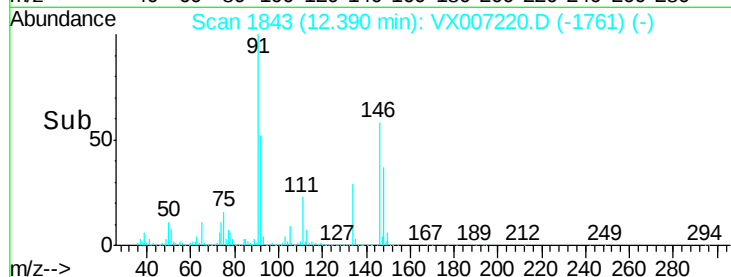
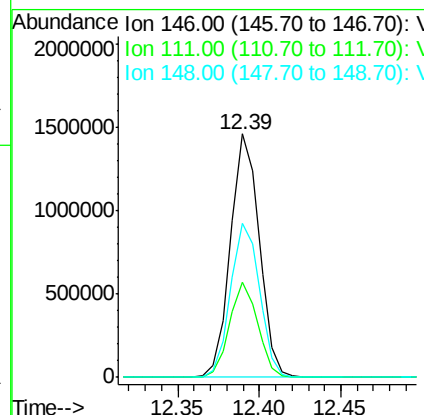
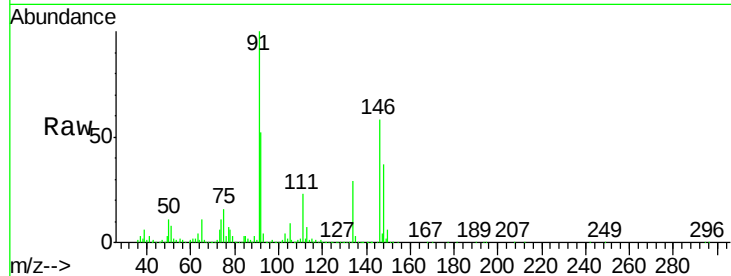
#87  
 1,2-Dichlorobenzene  
 Concen: 143.592 ug/l  
 RT: 12.39 min Scan# 1843  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.4  | 19.6  | 58.7  |
| 148     | 63.9  | 31.9  | 95.9  |

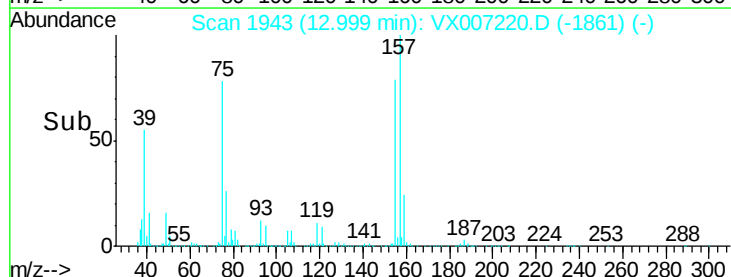
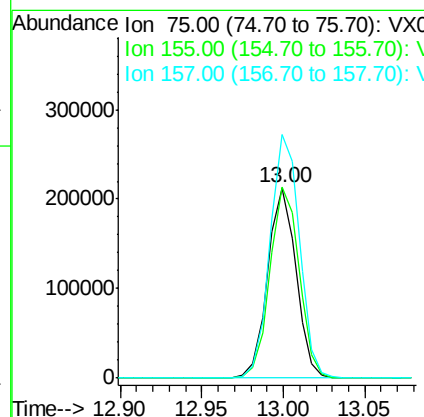
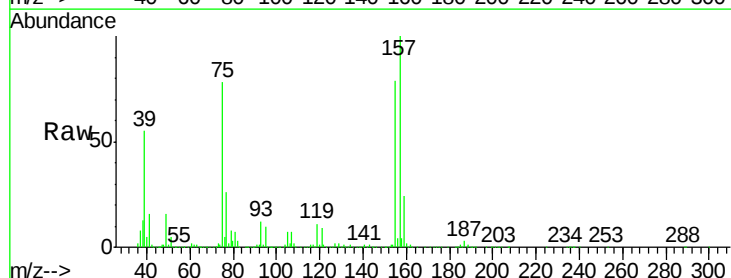
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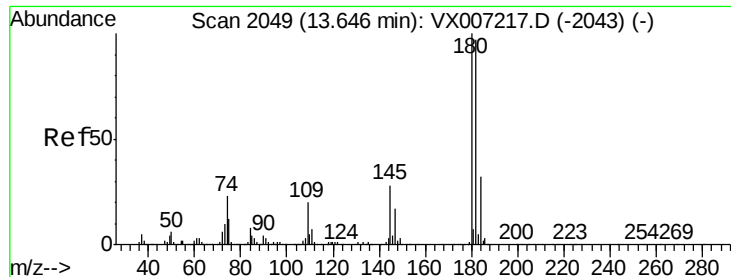
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#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 123.890 ug/l  
 RT: 13.00 min Scan# 1943  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 103.3 | 71.6  | 107.4 |
| 157     | 132.2 | 91.3  | 136.9 |





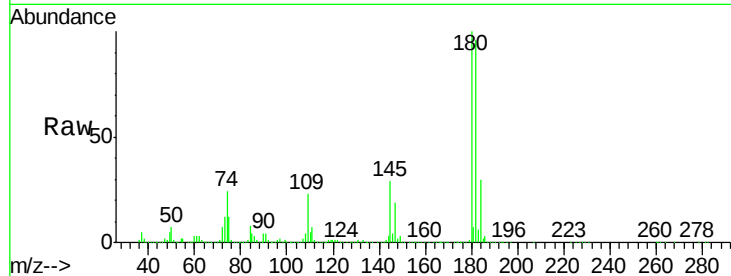
#89  
 1,2,4-Trichlorobenzene  
 Concen: 137.743 ug/l  
 RT: 13.65 min Scan# 2049  
 Delta R.T. 0.00 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

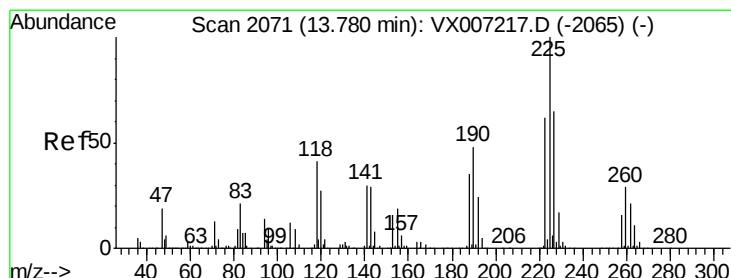
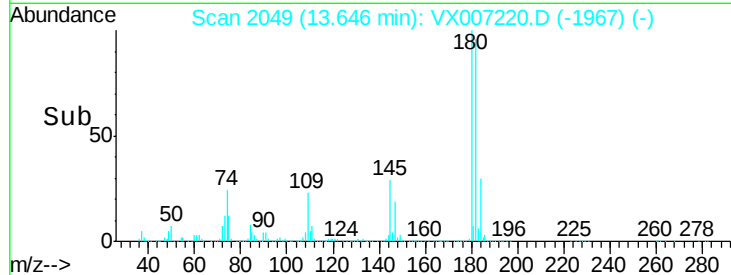
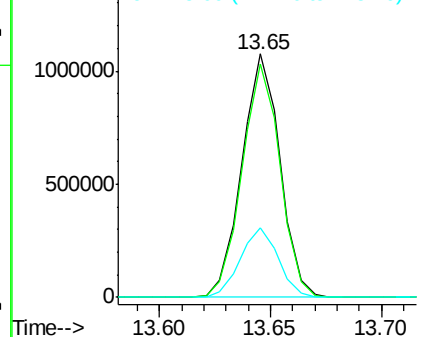
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 76.8  | 115.2 |
| 145     | 28.6  | 22.6  | 33.8  |

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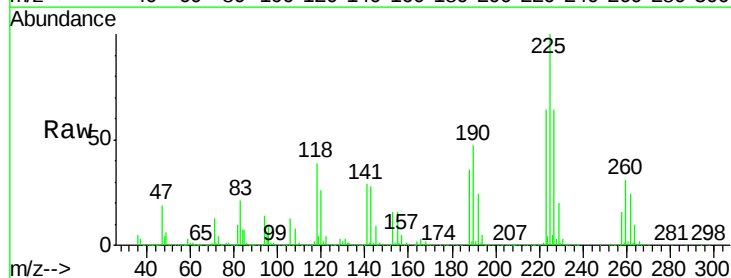


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

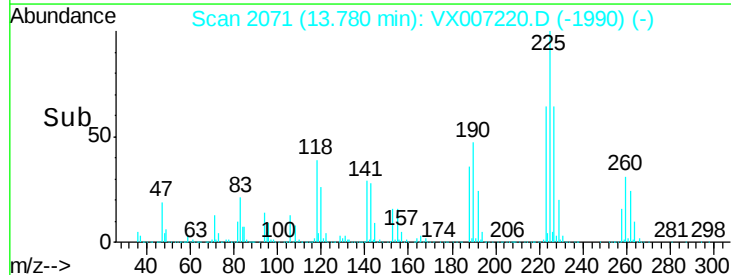
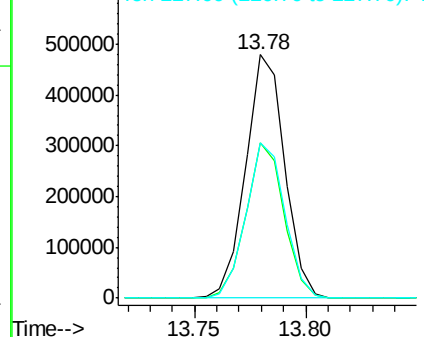


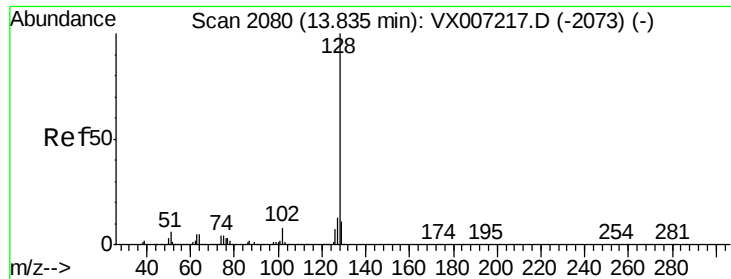
#90  
 Hexachlorobutadiene  
 Concen: 127.404 ug/l  
 RT: 13.78 min Scan# 2071  
 Delta R.T. -0.01 min  
 Lab File: VX007220.D  
 Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.4  | 0.0   | 126.6 |
| 227     | 63.6  | 0.0   | 129.6 |



Abundance Ion 225.00 (224.70 to 225.70): V  
 Ion 223.00 (222.70 to 223.70): V  
 Ion 227.00 (226.70 to 227.70): V





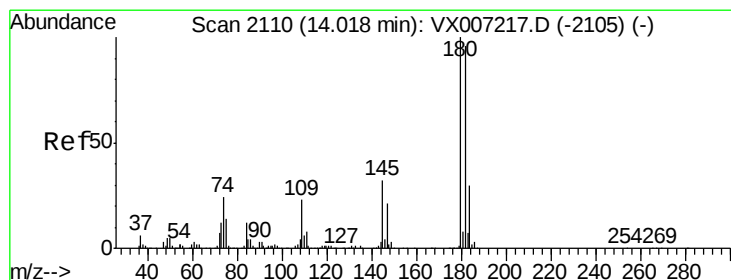
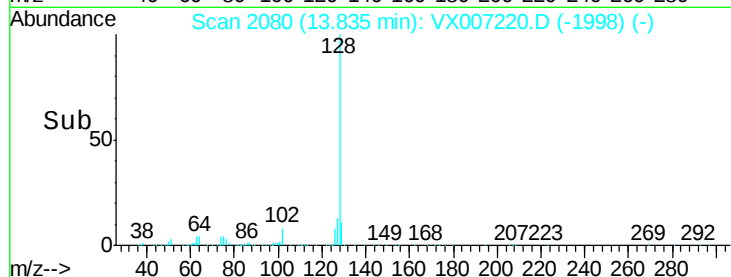
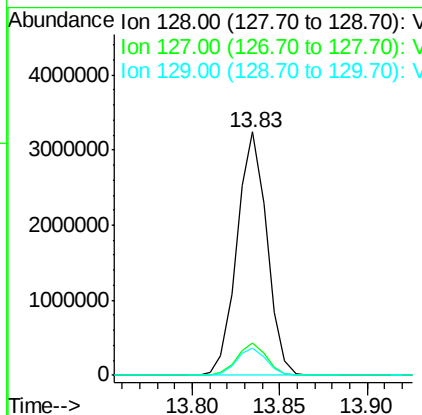
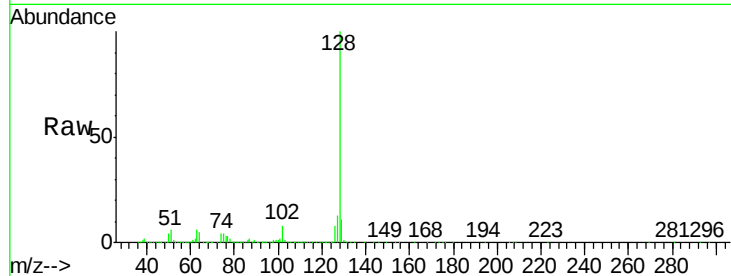
#91  
Naphthalene  
Concen: 132.695 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.5  | 15.7  |
| 129     | 11.1  | 8.6   | 13.0  |

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#92  
1,2,3-Trichlorobenzene  
Concen: 131.117 ug/l  
RT: 14.02 min Scan# 2110  
Delta R.T. 0.00 min  
Lab File: VX007220.D  
Acq: 25 Jan 2019 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 0.0   | 192.2 |
| 145     | 30.9  | 0.0   | 60.4  |

