

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
 Data File : VX014069.D  
 Acq On : 17 Dec 2019 22:48  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

Manual Integrations  
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apatel  
 12/18/2019 11:04:42 AM

Quant Time: Dec 18 08:06:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 13 01:35:34 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.00  | 128  | 90226    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 498622   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 450945   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 192751   | 29.83    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 99.43%  |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 212674   | 29.21    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 97.37%  |
| 63) Toluene-d8            | 8.71   | 98    | 614054   | 30.46    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.53% |

## Target Compounds

|                               |      |     |        |         | Ovalue   |
|-------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 81471  | 17.876  | ug/l 98  |
| 3) Chloromethane              | 1.32 | 50  | 125790 | 19.582  | ug/l 97  |
| 4) Vinyl Chloride             | 1.40 | 62  | 127783 | 19.405  | ug/l 100 |
| 5) Bromomethane               | 1.63 | 94  | 80240  | 16.669  | ug/l 99  |
| 6) Chloroethane               | 1.72 | 64  | 78080  | 19.196  | ug/l 97  |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 161145 | 19.666  | ug/l 99  |
| 8) Diethyl Ether              | 2.18 | 74  | 75890  | 20.149  | ug/l 94  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 96507  | 19.748  | ug/l 97  |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 99673  | 19.728  | ug/l 97  |
| 11) Methyl Iodide             | 2.50 | 142 | 117809 | 18.113  | ug/l 98  |
| 12) Methyl Acetate            | 2.76 | 43  | 160811 | 20.560  | ug/l 97  |
| 13) Acrolein                  | 2.28 | 56  | 105458 | 111.164 | ug/l 100 |
| 14) Acrylonitrile             | 3.13 | 53  | 322508 | 105.474 | ug/l 98  |
| 15) Acetone                   | 2.43 | 58  | 130322 | 145.085 | ug/l 90  |
| 16) Carbon Disulfide          | 2.56 | 76  | 264044 | 19.292  | ug/l 97  |
| 17) Allyl chloride            | 2.72 | 41  | 177145 | 19.512  | ug/l 92  |
| 18) Methylene Chloride        | 2.85 | 84  | 115264 | 18.618  | ug/l 98  |
| 19) trans-1,2-Dichloroethene  | 3.15 | 96  | 107403 | 19.412  | ug/l 97  |
| 20) Diisopropyl ether         | 3.84 | 45  | 359632 | 19.305  | ug/l 97  |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 192748 | 19.064  | ug/l 99  |
| 22) cis-1,2-Dichloroethene    | 4.59 | 96  | 121914 | 19.008  | ug/l 99  |
| 23) tert-Butyl Alcohol        | 3.03 | 59  | 133412 | 111.239 | ug/l 100 |
| 24) Methyl tert-Butyl Ether   | 3.18 | 73  | 330786 | 19.381  | ug/l 96  |
| 25) Chloroform                | 5.20 | 83  | 189368 | 19.645  | ug/l 98  |
| 26) Cyclohexane               | 5.57 | 56  | 173484 | 19.243  | ug/l 99  |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 141002 | 19.577  | ug/l 99  |
| 30) 2-Butanone                | 4.65 | 43  | 504640 | 118.871 | ug/l 100 |
| 31) 2,2-Dichloropropane       | 4.58 | 77  | 132685 | 19.916  | ug/l 98  |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 156784 | 19.681  | ug/l 99  |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 131467 | 19.413  | ug/l 96  |
| 34) Benzene                   | 6.14 | 78  | 448688 | 19.979  | ug/l 98  |
| 35) Methacrylonitrile         | 5.03 | 41  | 91749  | 20.095  | ug/l 98  |
| 36) 1,2-Dichloroethane        | 6.18 | 62  | 152675 | 19.571  | ug/l 99  |
| 37) Trichloroethene           | 7.21 | 130 | 124494 | 20.372  | ug/l 95  |
| 38) Methylcyclohexane         | 7.46 | 83  | 165759 | 19.294  | ug/l 99  |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 111757 | 19.160  | ug/l 95  |
| 40) Dibromomethane            | 7.65 | 93  | 74307  | 19.942  | ug/l 98  |

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 MSVOA\_X  
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 VSTDCCC020

Manual Integrations  
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 12/18/2019 11:04:42 AM

Quant Time: Dec 18 08:06:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 13 01:35:34 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 7.89  | 83   | 138983   | 19.263  | ug/l  | 99       |
| 42) Vinyl Acetate              | 3.80  | 43   | 1024584  | 68.359  | ug/l  | 98       |
| 43) Ethyl Acetate              | 4.81  | 43   | 172652   | 21.195  | ug/l  | 99       |
| 44) Isopropyl Acetate          | 6.43  | 43   | 275612   | 20.201  | ug/l  | 100      |
| 45) 1,4-Dioxane                | 7.73  | 88   | 54832    | 429.165 | ug/l  | 98       |
| 46) Methyl methacrylate        | 7.76  | 41   | 133930   | 20.210  | ug/l  | 98       |
| 47) n-amyl Acetate             | 10.89 | 43   | 223193   | 18.398  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 152057   | 19.309  | ug/l  | 99       |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 174034   | 19.652  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 114348   | 19.884  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 9.17  | 69   | 177998   | 19.459  | ug/l  | 97       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 191401   | 19.590  | ug/l  | 97       |
| 53) Dibromochloromethane       | 9.57  | 129  | 110014   | 19.132  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 117024   | 19.765  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 397916   | 98.683  | ug/l  | 99       |
| 56) Bromoform                  | 10.85 | 173  | 83466    | 18.613  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 887030   | 105.131 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 703473   | 109.865 | ug/l  | 100      |
| 61) Tetrachloroethene          | 9.33  | 164  | 173266   | 29.044  | ug/l  | 95       |
| 62) Toluene                    | 8.78  | 91   | 478232   | 19.940  | ug/l  | 99       |
| 64) Chlorobenzene              | 10.14 | 112  | 298724   | 19.881  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 106805   | 19.196  | ug/l  | 98       |
| 66) Ethyl Benzene              | 10.25 | 91   | 514287   | 19.594  | ug/l  | 98       |
| 67) m/p-Xylenes                | 10.35 | 106  | 392270   | 39.097  | ug/l  | 100      |
| 68) o-Xylene                   | 10.70 | 106  | 191674   | 19.284  | ug/l  | 99       |
| 69) Styrene                    | 10.71 | 104  | 317448   | 18.781  | ug/l  | 99       |
| 70) Isopropylbenzene           | 11.01 | 105  | 501378   | 19.520  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 160595   | 17.630  | ug/l  | 97       |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 166339m  | 20.515  | ug/l  |          |
| 73) Bromobenzene               | 11.25 | 156  | 129900   | 18.945  | ug/l  | 98       |
| 74) n-propylbenzene            | 11.35 | 91   | 557315   | 19.130  | ug/l  | 98       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 338695   | 19.241  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 410350   | 18.833  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 50786    | 18.968  | ug/l  | 97       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 379584   | 18.871  | ug/l  | 99       |
| 79) tert-butylbenzene          | 11.76 | 119  | 354484   | 16.878  | ug/l  | 93       |
| 80) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 408329   | 18.742  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 473557   | 18.957  | ug/l  | 100      |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 425312   | 18.866  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 222518   | 18.619  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 217080   | 18.241  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.39 | 91   | 341781   | 18.032  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.59 | 117  | 72715    | 17.780  | ug/l  | 95       |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 223835   | 18.439  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 34821    | 19.179  | ug/l  | 94       |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 137138   | 17.676  | ug/l  | 100      |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 70120    | 19.014  | ug/l  | 97       |
| 91) Naphthalene                | 13.83 | 128  | 429573   | 18.421  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 144681   | 18.386  | ug/l  | 99       |

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Sample : VSTDCCC020  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

Manual Integrations  
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12/18/2019 11:04:42 AM

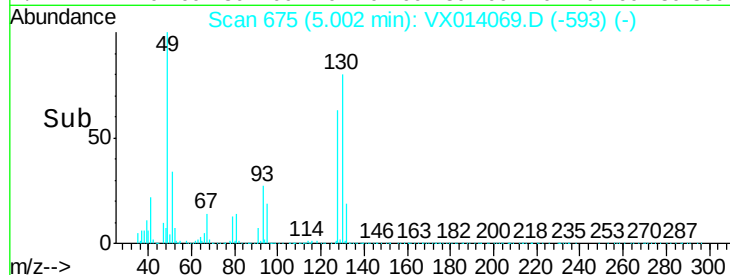
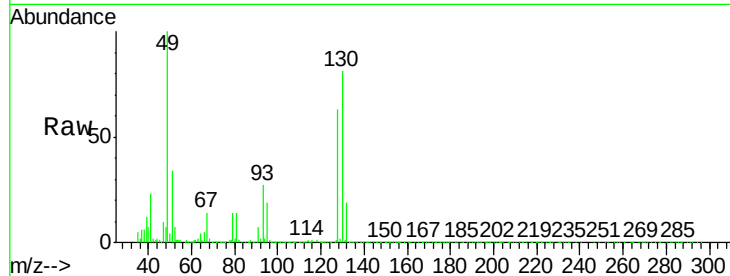
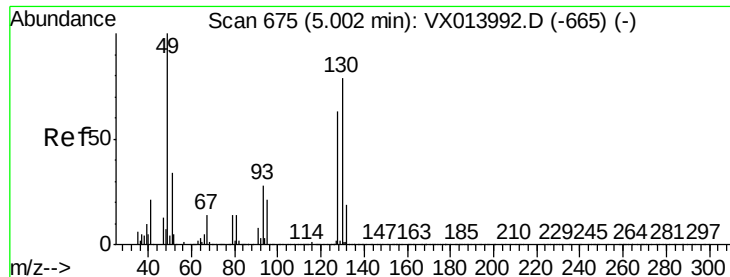
Quant Time: Dec 18 08:06:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Dec 13 01:35:34 2019  
Response via : Initial Calibration

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

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





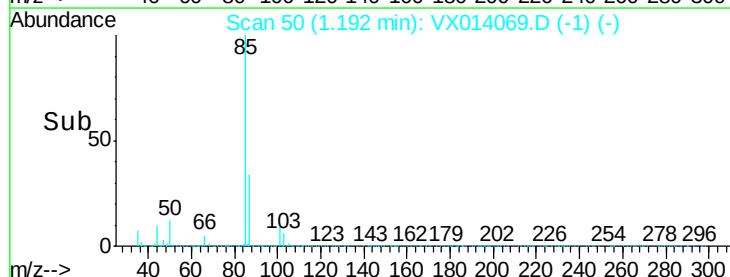
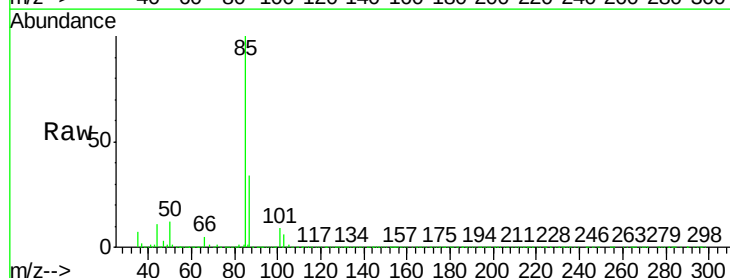
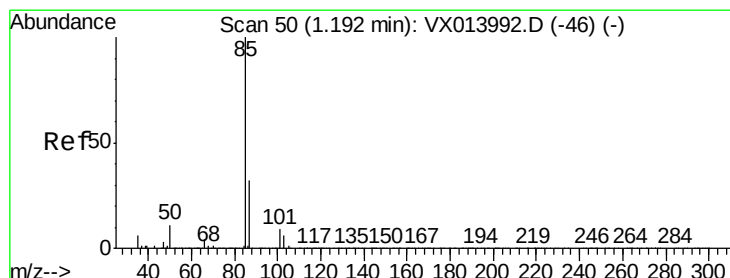
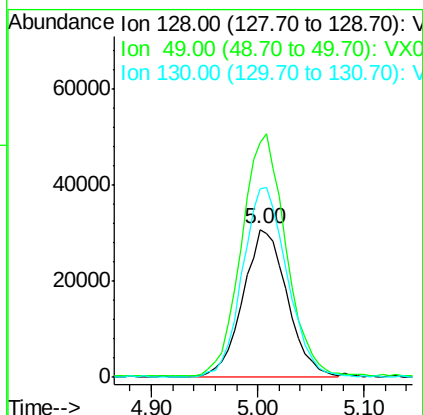
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 5.00 min Scan# 675  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 163.0 | 0.0   | 405.0 |
| 130     | 129.0 | 0.0   | 321.5 |

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

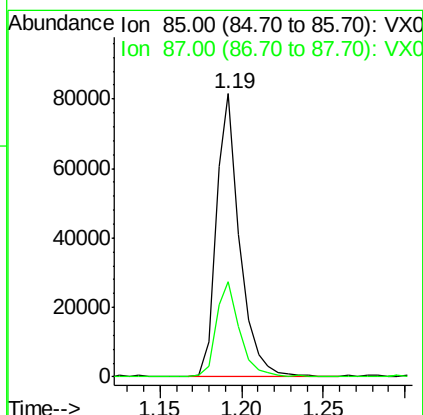
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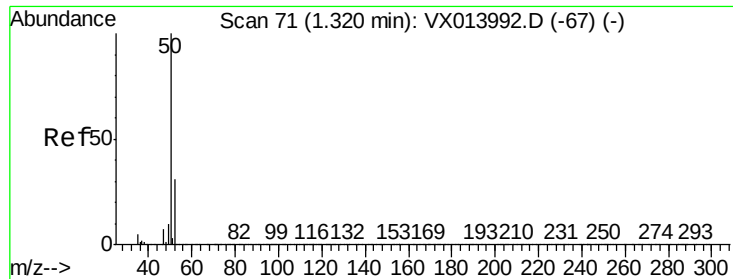
apatel  
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#2  
Dichlorodifluoromethane  
Concen: 17.876 ug/l  
RT: 1.19 min Scan# 50  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 33.7  | 16.3  | 48.9  |





#3

Chloromethane

Concen: 19.582 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 50 Resp: 125790

Ion Ratio Lower Upper

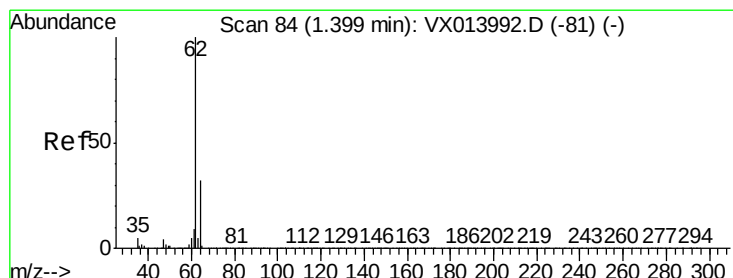
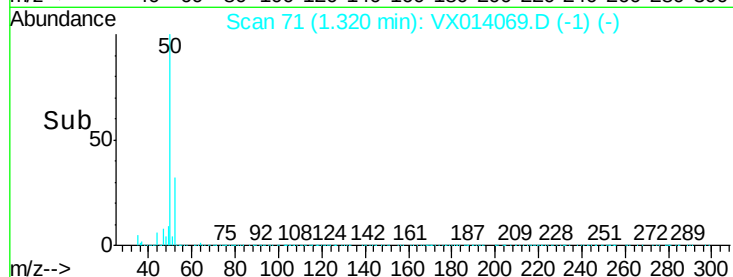
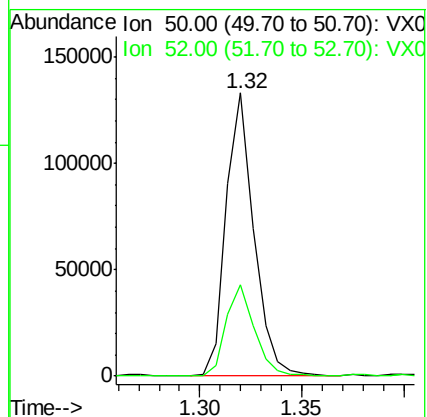
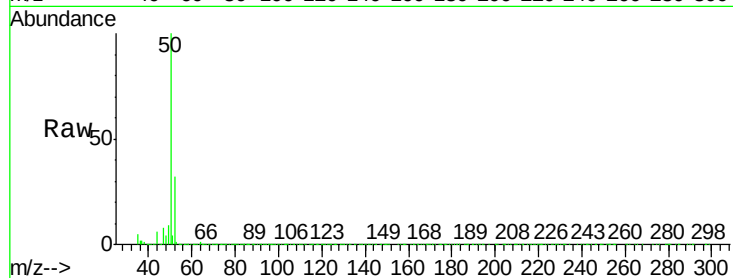
50 100

52 32.2 24.3 36.5

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#4

Vinyl Chloride

Concen: 19.405 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX014069.D

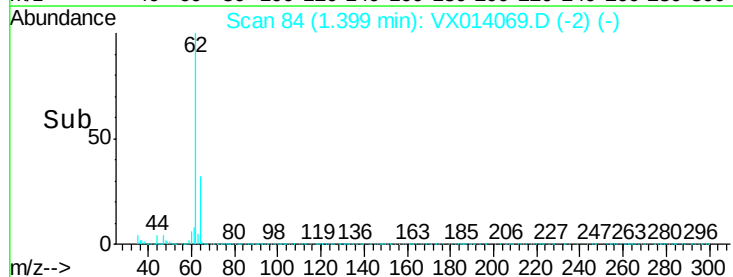
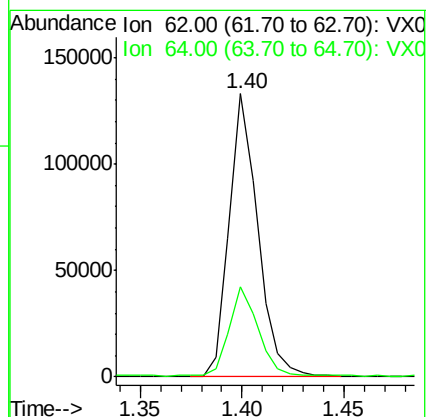
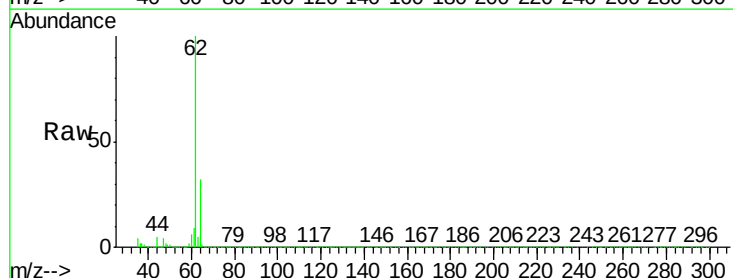
Acq: 17 Dec 2019 22:48

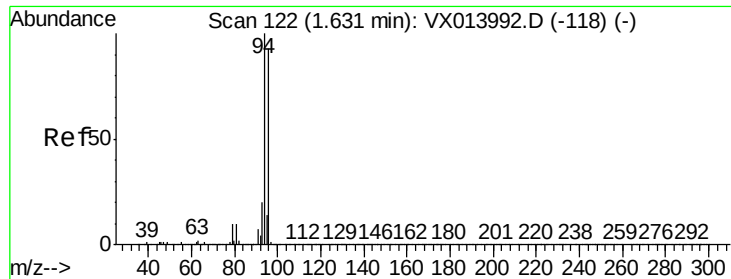
Tgt Ion: 62 Resp: 127783

Ion Ratio Lower Upper

62 100

64 31.3 25.2 37.8





#5

Bromomethane

Concen: 16.669 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 80240

Ion Ratio Lower Upper

94 100

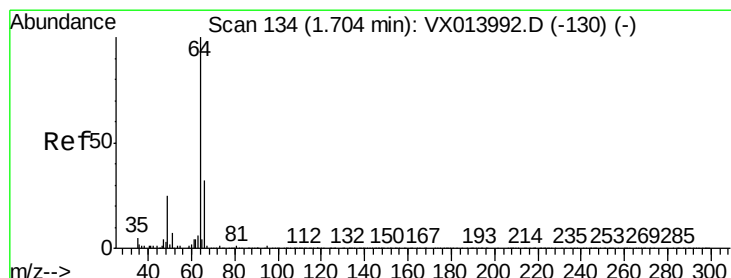
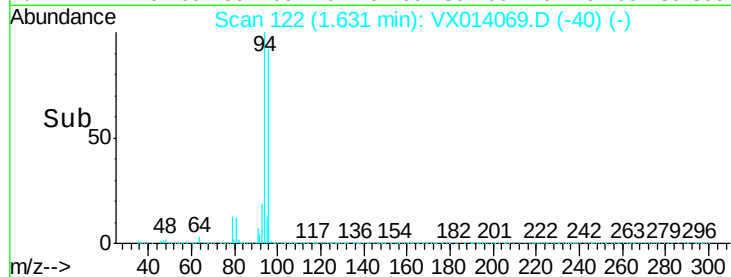
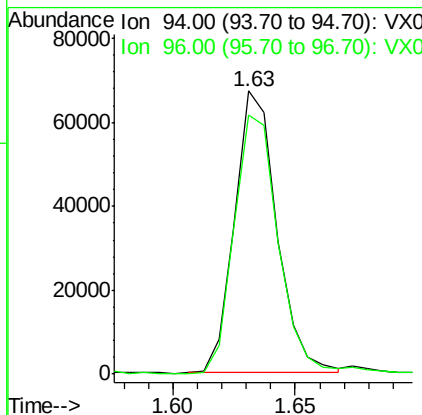
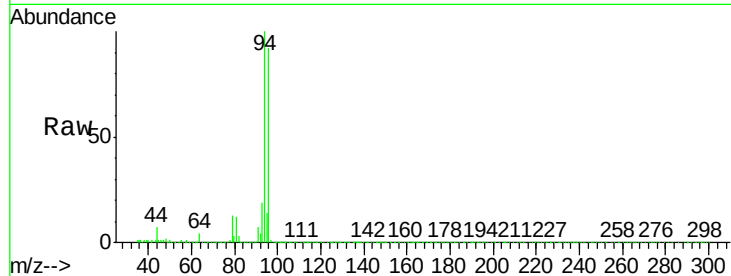
96 92.2 74.4 111.6

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#6

Chloroethane

Concen: 19.196 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX014069.D

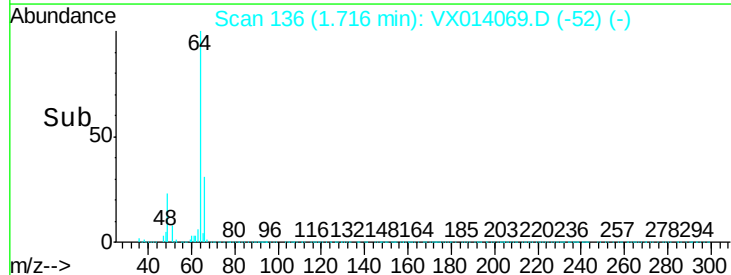
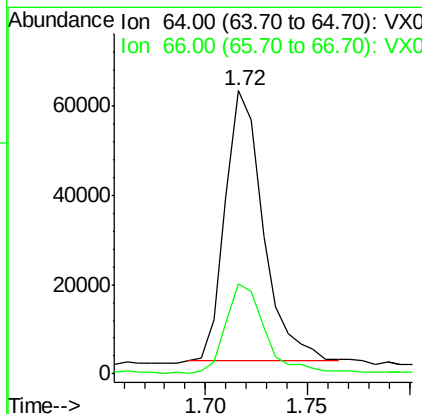
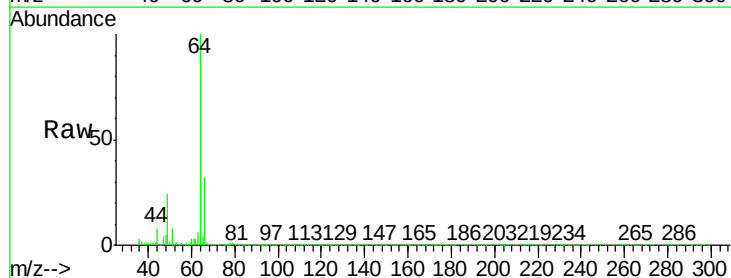
Acq: 17 Dec 2019 22:48

Tgt Ion: 64 Resp: 78080

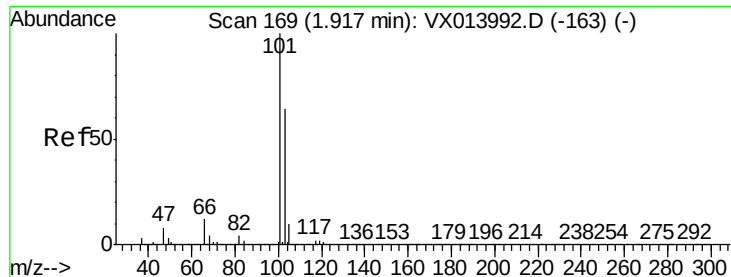
Ion Ratio Lower Upper

64 100

66 33.1 25.2 37.8







#7

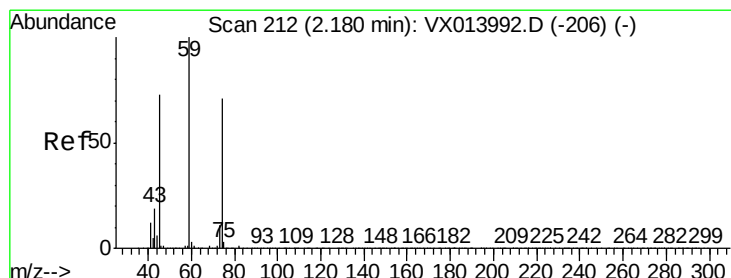
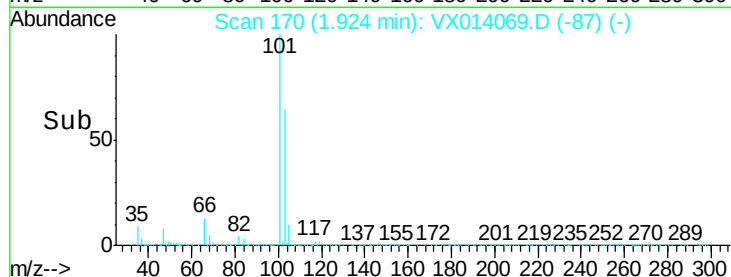
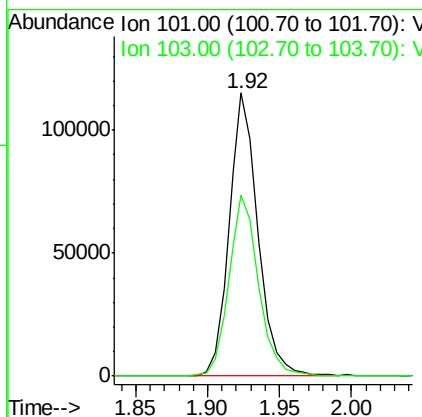
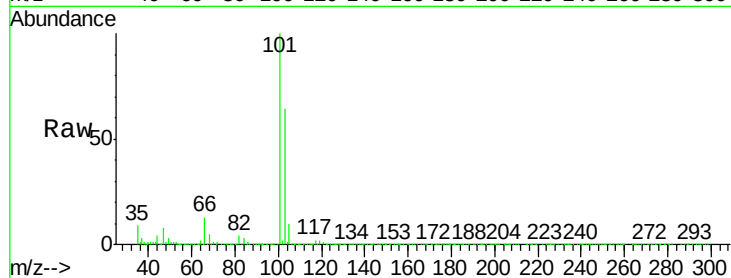
Trichlorofluoromethane  
Concen: 19.666 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. 0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 161145 |       |       |
| 103     | 63.8  | 51.6   | 77.4  |       |

Manual Integrations  
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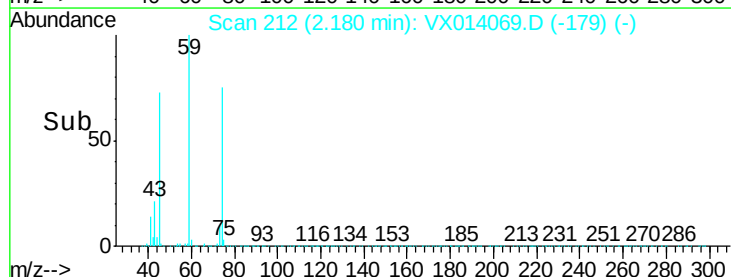
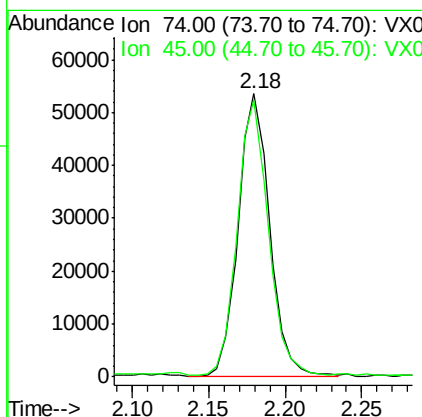
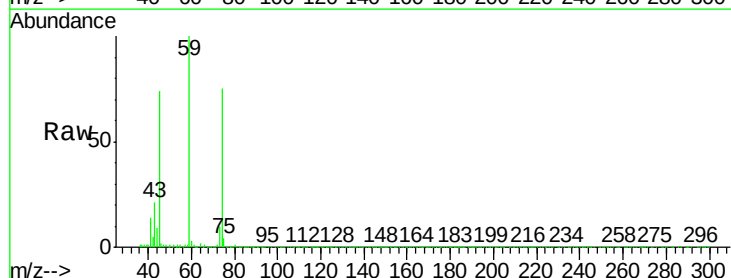
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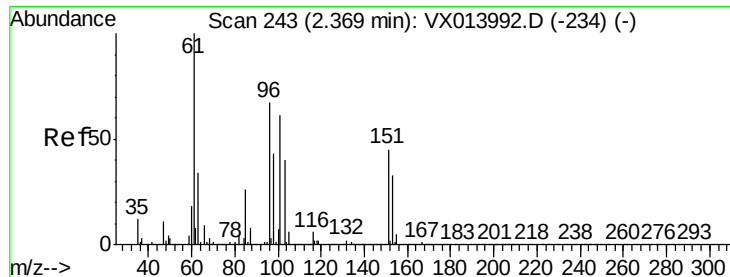
#8

Diethyl Ether  
Concen: 20.149 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 74      | 100   | 75890 |       |       |
| 45      | 96.6  | 20.6  | 185.0 |       |







#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.748 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

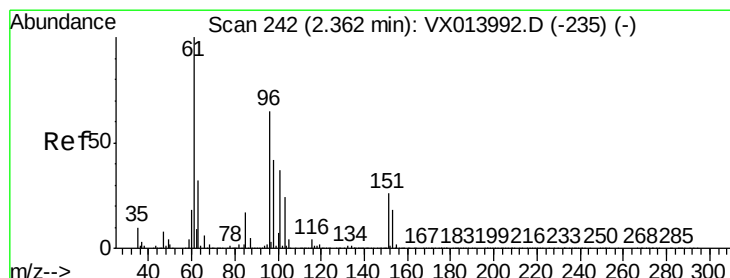
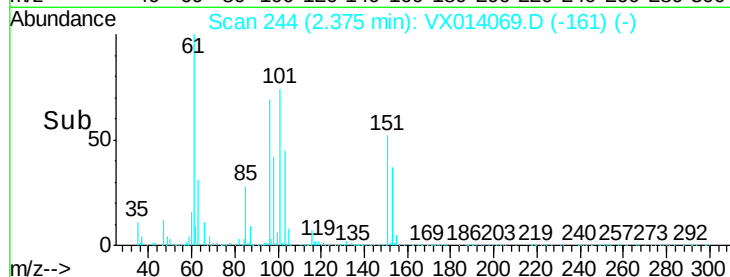
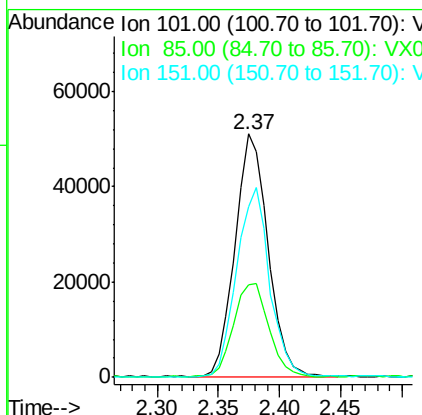
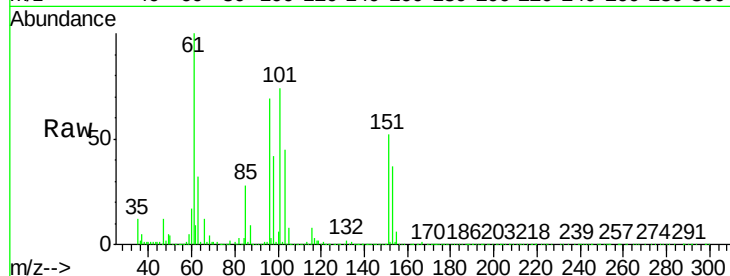
ClientSampleId :

VSTDCCC020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 96507 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 40.7  | 0.0   | 85.6  |
| 151       | 77.3  | 0.0   | 159.4 |

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#10

1,1-Dichloroethene

Concen: 19.728 ug/l

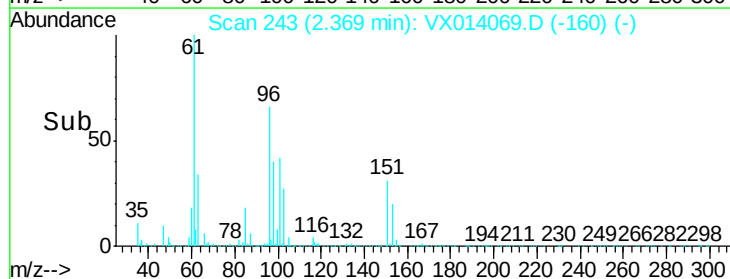
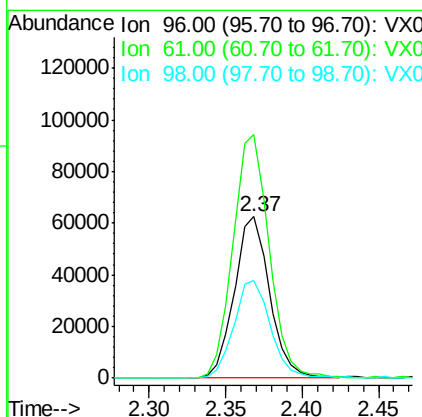
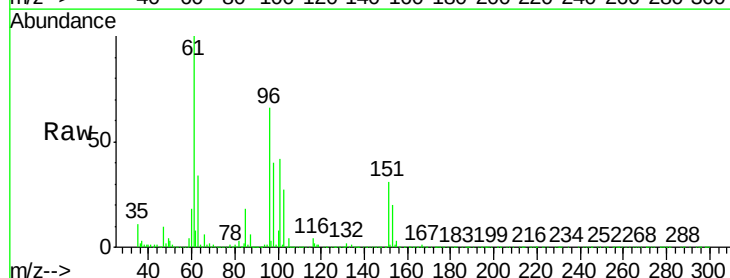
RT: 2.37 min Scan# 243

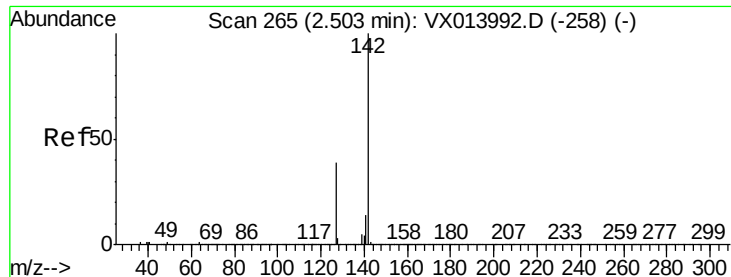
Delta R.T. 0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 99673 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 151.0 | 123.0 | 184.6 |
| 98        | 60.4  | 51.4  | 77.0  |





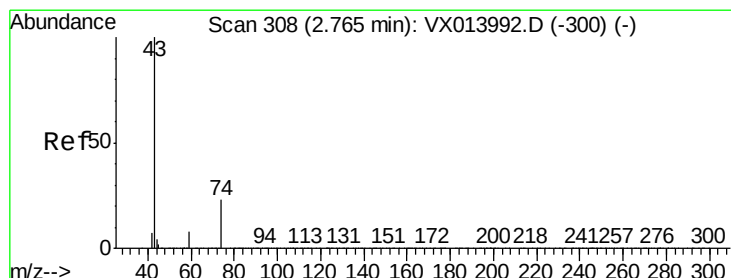
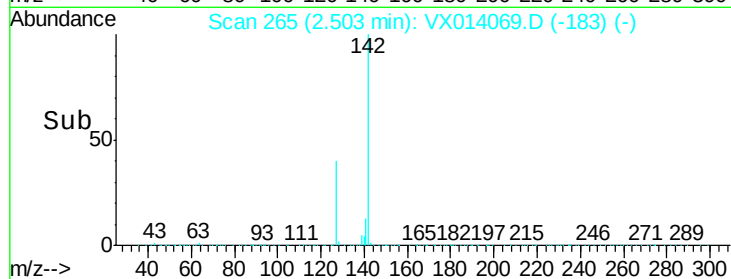
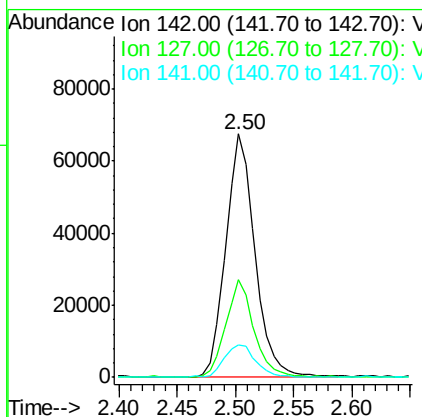
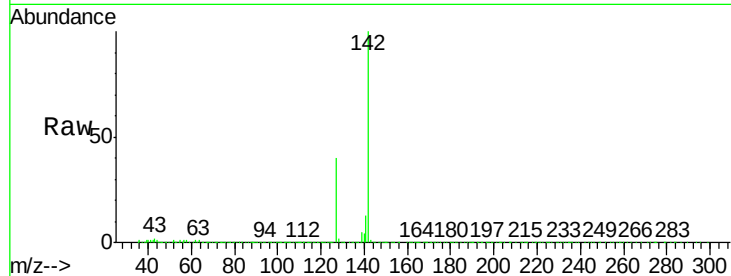
#11  
Methvl Iodide  
Concen: 18.113 ug/l  
RT: 2.50 min Scan# 265  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 39.9  | 19.5  | 58.5  |
| 141     | 13.1  | 7.0   | 20.9  |

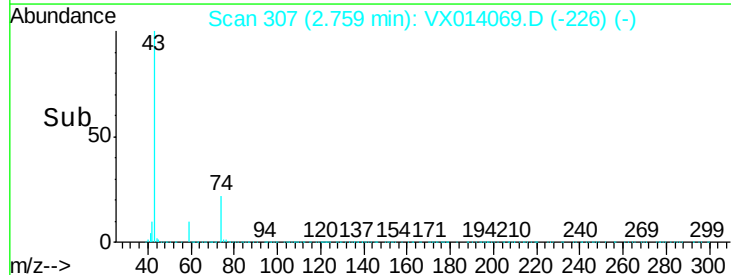
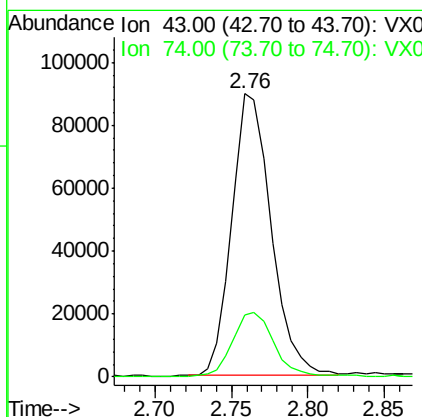
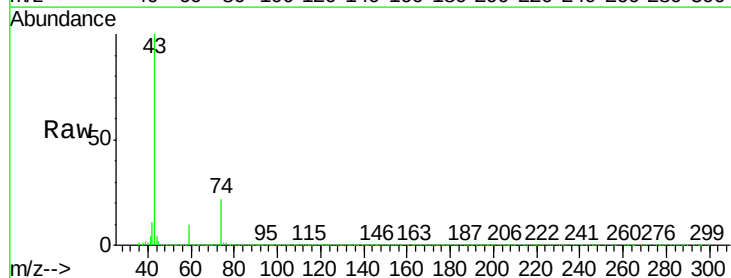
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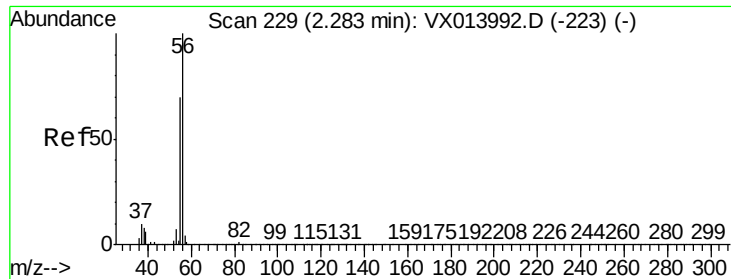
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#12  
Methyl Acetate  
Concen: 20.560 ug/l  
RT: 2.76 min Scan# 307  
Delta R.T. -0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 21.6  | 18.5  | 27.7  |





#13

Acrolein

Concen: 111.164 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 56 Resp: 105458

Ion Ratio Lower Upper

56 100

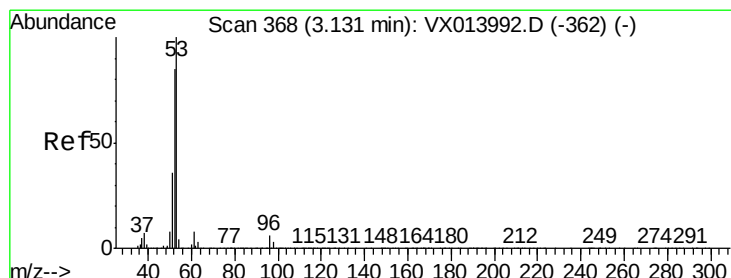
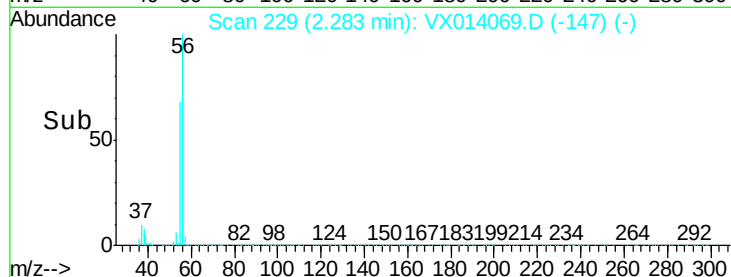
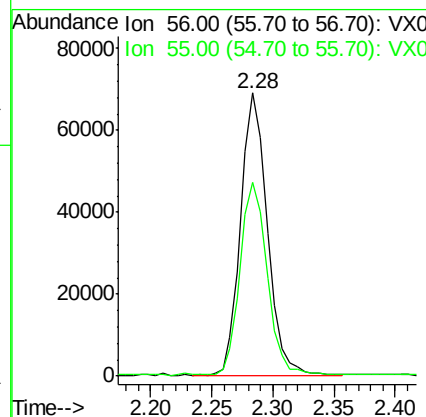
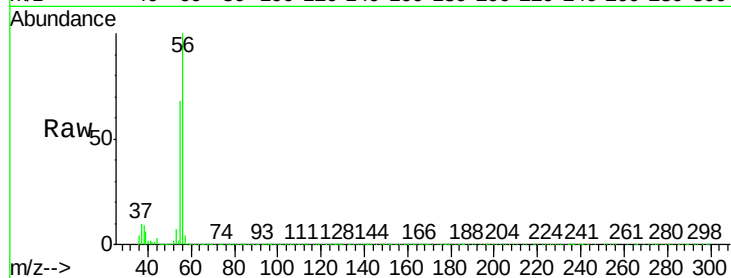
55 68.5 54.9 82.3

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#14

Acrylonitrile

Concen: 105.474 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

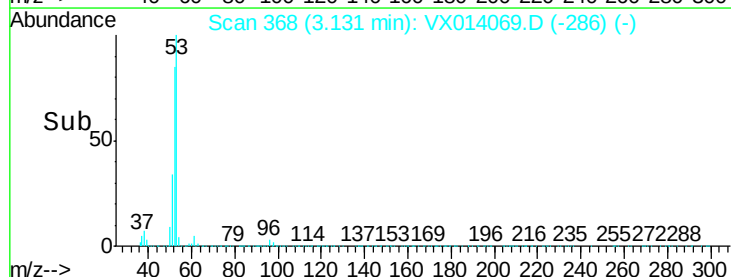
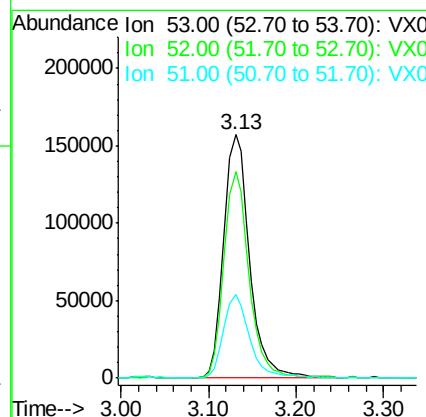
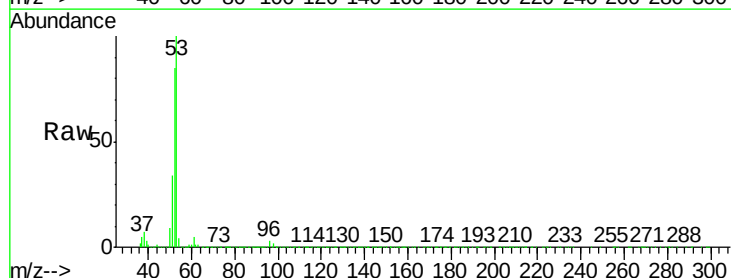
Tgt Ion: 53 Resp: 322508

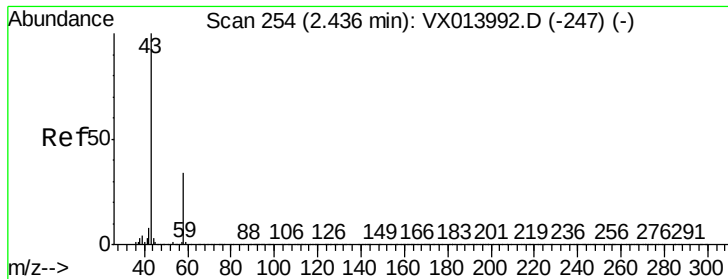
Ion Ratio Lower Upper

53 100

52 81.4 41.5 124.6

51 34.1 17.8 53.5





#15

Acetone

Concen: 145.085 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 130322

Ion Ratio Lower Upper

58 100

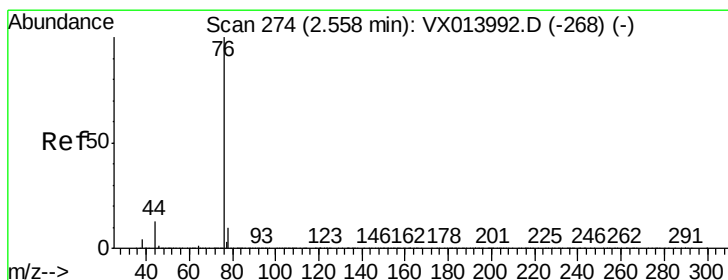
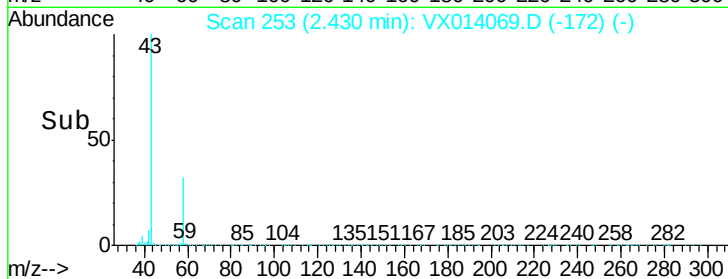
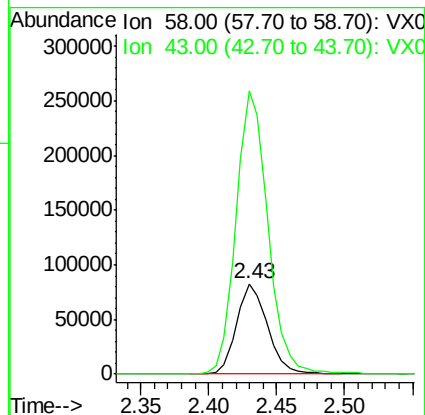
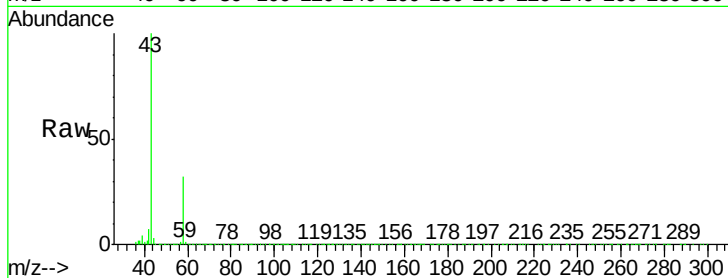
43 314.0 236.3 354.5

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#16

Carbon Disulfide

Concen: 19.292 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014069.D

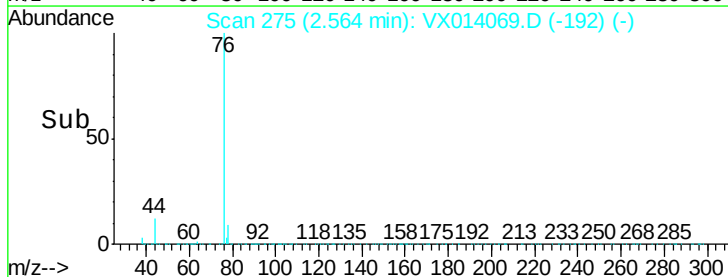
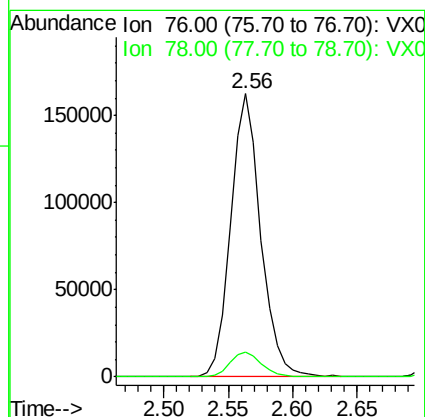
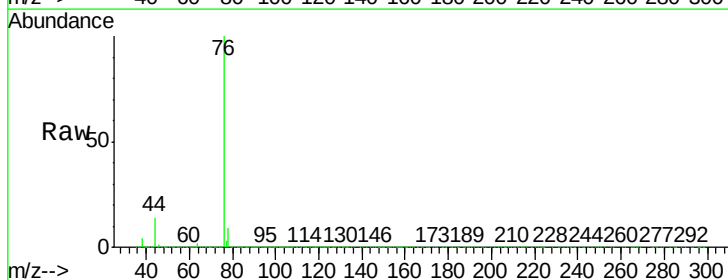
Acq: 17 Dec 2019 22:48

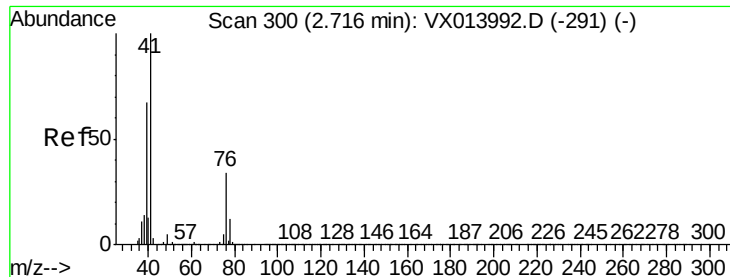
Tgt Ion: 76 Resp: 264044

Ion Ratio Lower Upper

76 100

78 8.7 7.8 11.8





#17

Allvl chloride

Concen: 19.512 ug/l

RT: 2.72 min Scan# 301

Delta R.T. 0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

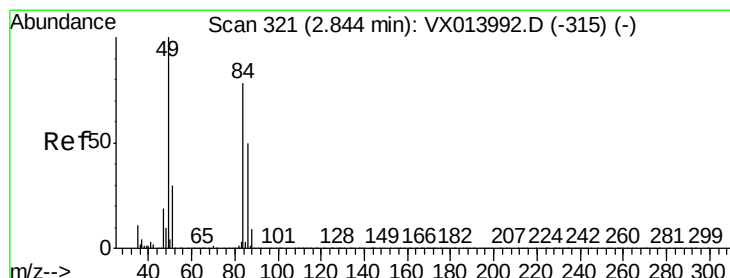
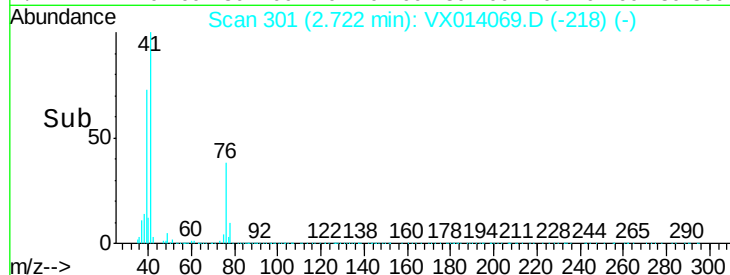
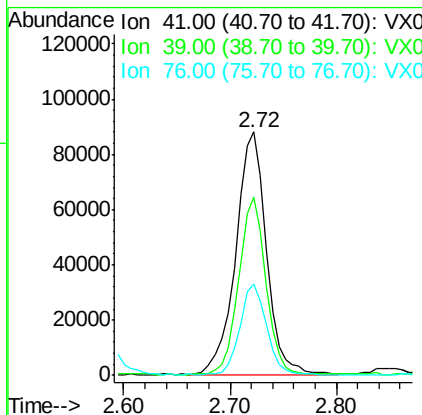
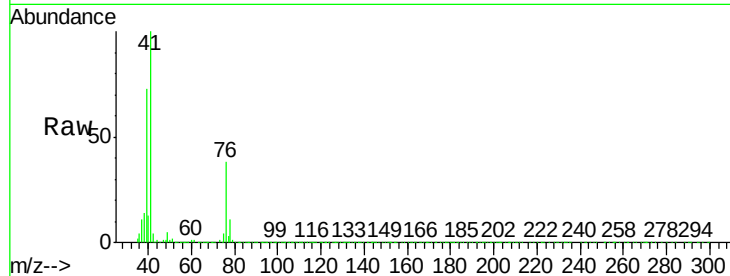
ClientSampleId :

VSTDCCC020

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 177145 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 73.4  | 33.4  | 100.2  |
| 76       | 37.4  | 17.0  | 50.9   |

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#18

Methylene Chloride

Concen: 18.618 ug/l

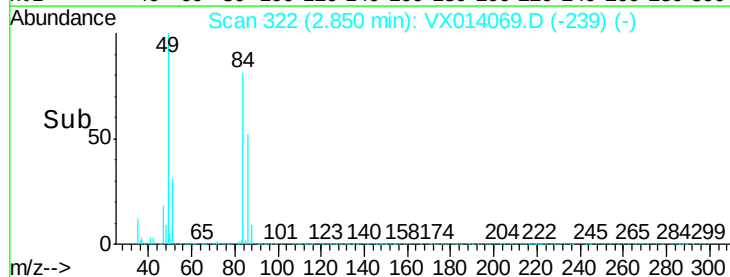
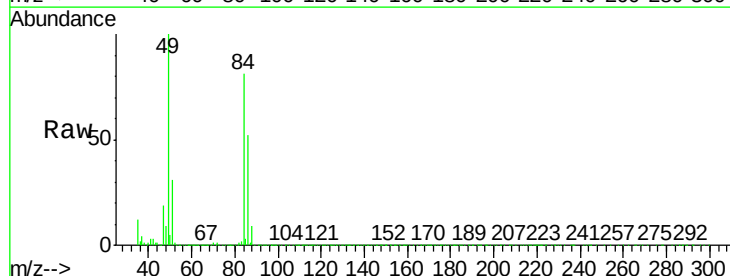
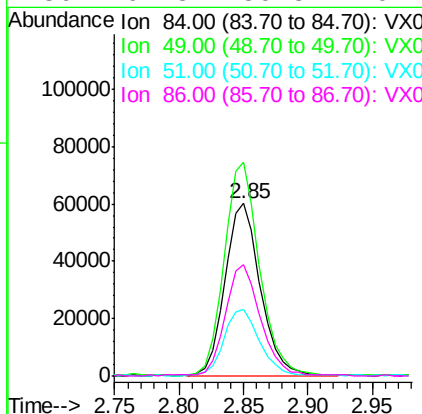
RT: 2.85 min Scan# 322

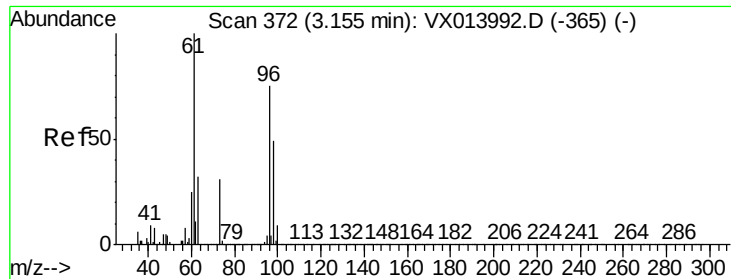
Delta R.T. 0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 115264 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 123.9 | 102.2 | 153.2  |
| 51       | 38.2  | 31.4  | 47.0   |
| 86       | 64.3  | 50.8  | 76.2   |





#19

trans-1,2-Dichloroethene

Concen: 19.412 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

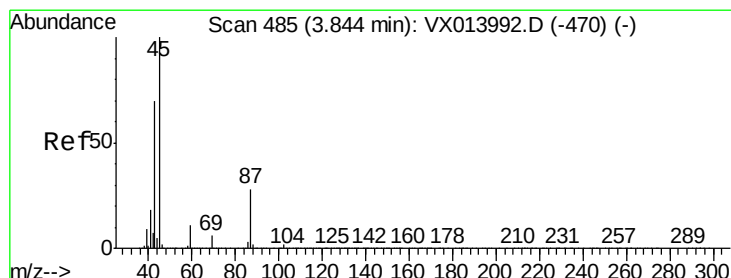
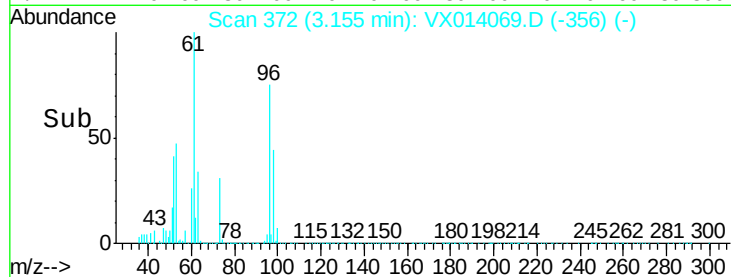
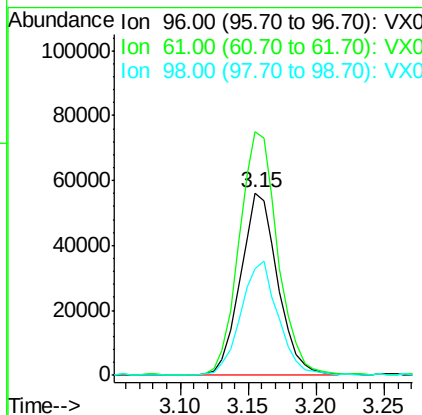
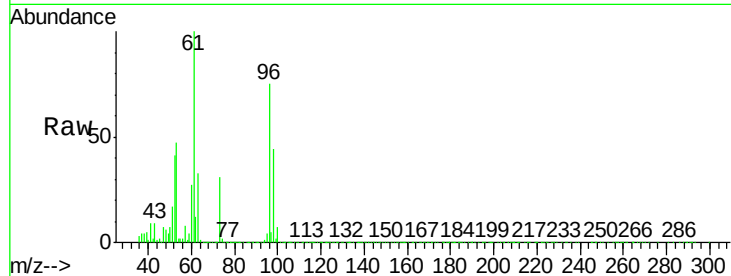
ClientSampleId :

VSTDCCC020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 96    | Resp: | 107403 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 133.9 | 106.6 | 159.8  |
| 98        | 59.1  | 51.6  | 77.4   |

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#20

Diisopropyl ether

Concen: 19.305 ug/l

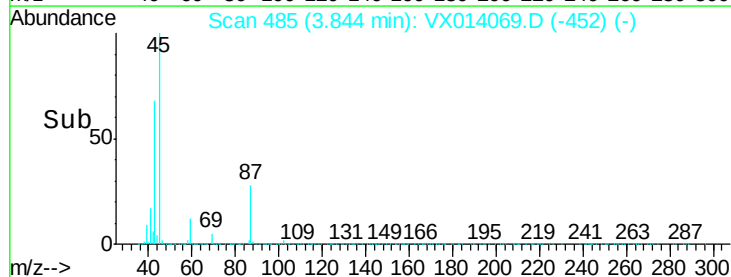
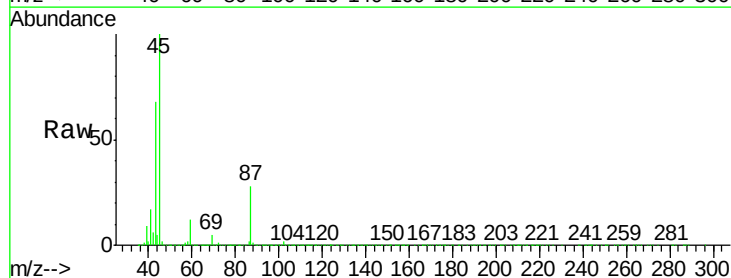
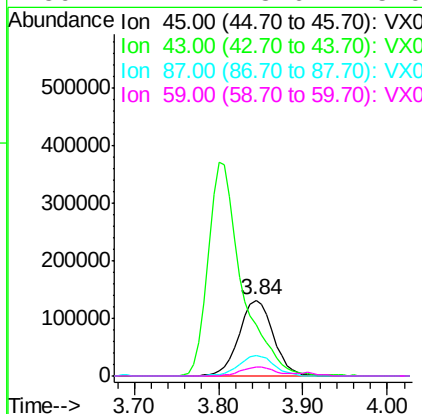
RT: 3.84 min Scan# 485

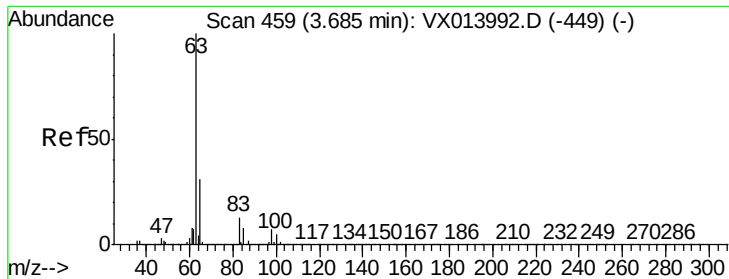
Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 359632 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 43        | 66.8  | 55.9  | 83.9   |
| 87        | 27.6  | 22.2  | 33.2   |
| 59        | 12.1  | 8.6   | 13.0   |





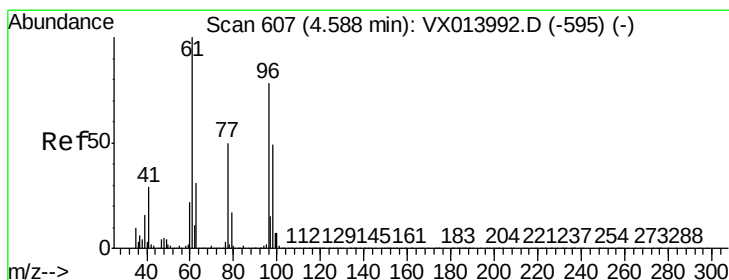
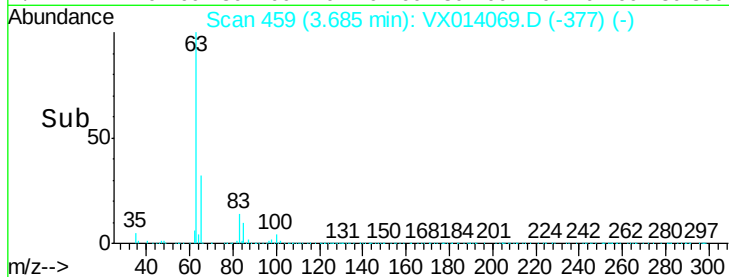
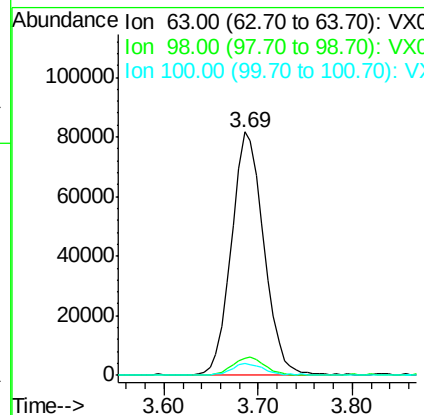
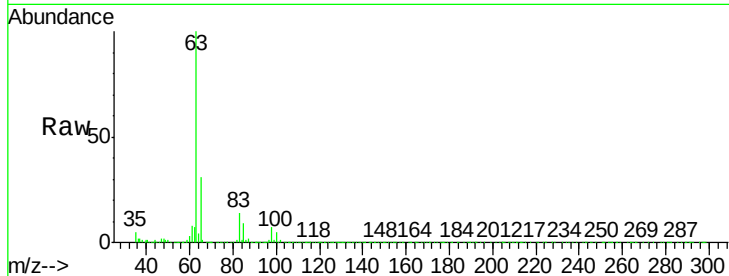
#21  
1,1-Dichloroethane  
Concen: 19.064 ug/l  
RT: 3.69 min Scan# 459  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 192748 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 98        | 6.9   | 3.4   | 10.1   |
| 100       | 4.8   | 2.5   | 7.4    |

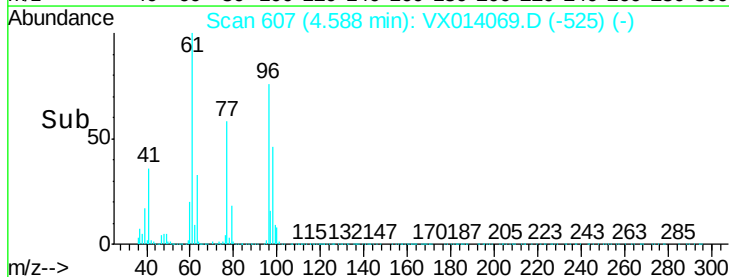
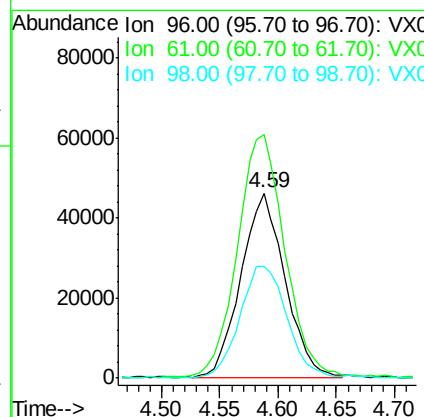
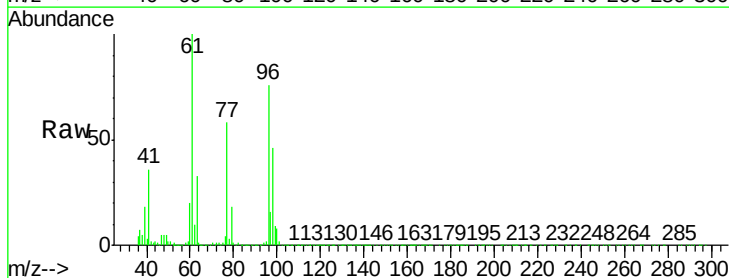
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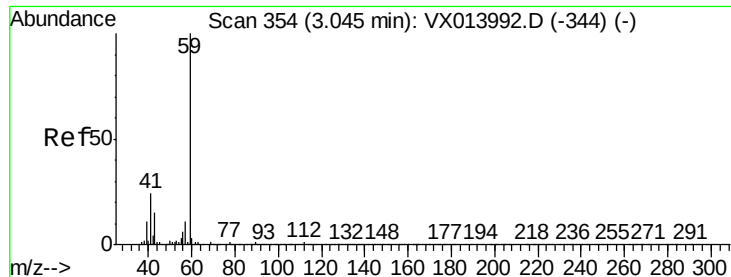


#22  
cis-1,2-Dichloroethene  
Concen: 19.008 ug/l  
RT: 4.59 min Scan# 607  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 121914 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 141.5 | 112.4 | 168.6  |
| 98        | 64.4  | 50.3  | 75.5   |







#23

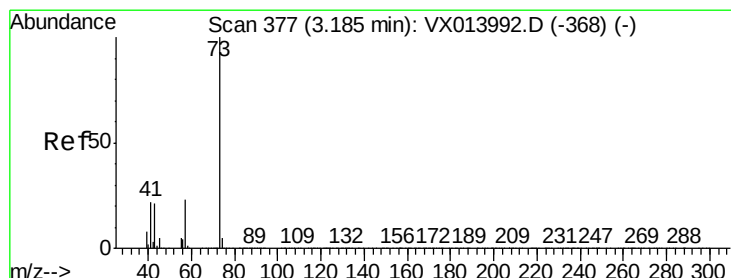
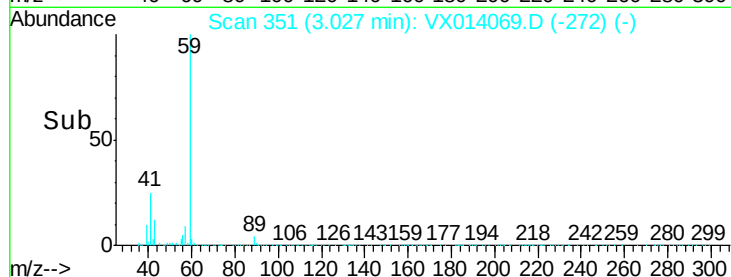
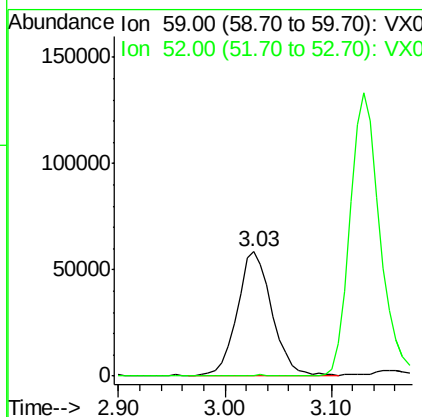
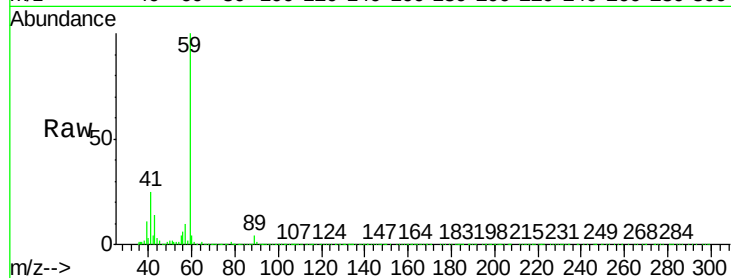
tert-Butyl Alcohol  
Concen: 111.239 ug/l  
RT: 3.03 min Scan# 351  
Delta R.T. -0.02 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 52      | 0.2   | 0.2   | 0.2   |

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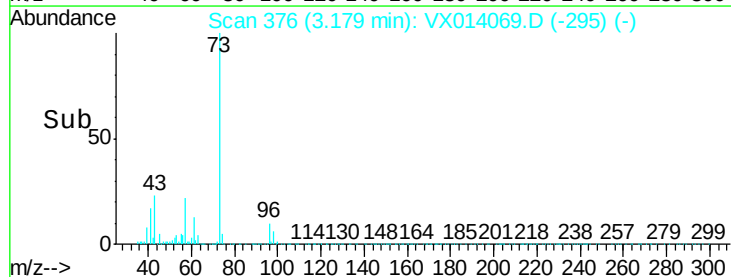
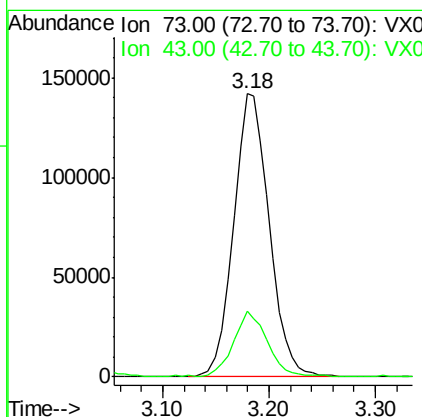
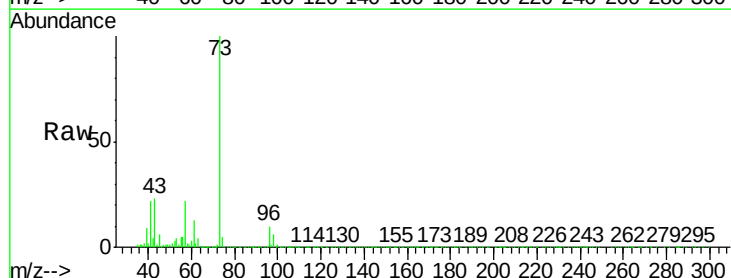
apatel  
12/18/2019 11:04:42 AM

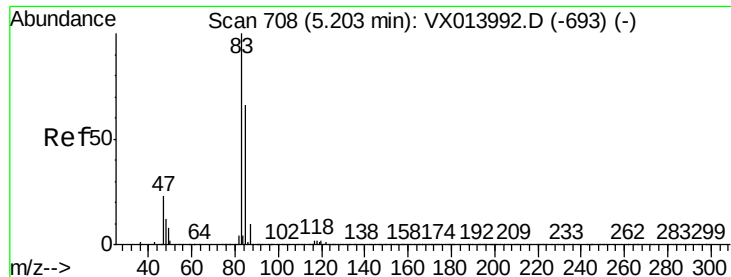


#24

Methyl tert-Butyl Ether  
Concen: 19.381 ug/l  
RT: 3.18 min Scan# 376  
Delta R.T. -0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 22.4  | 16.6  | 25.0  |





#25

Chloroform

Concen: 19.645 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 83 Resp: 189368

Ion Ratio Lower Upper

83 100

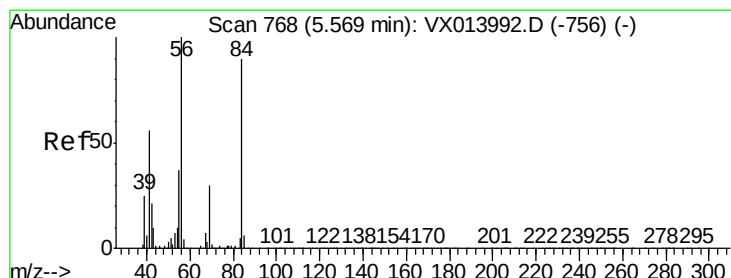
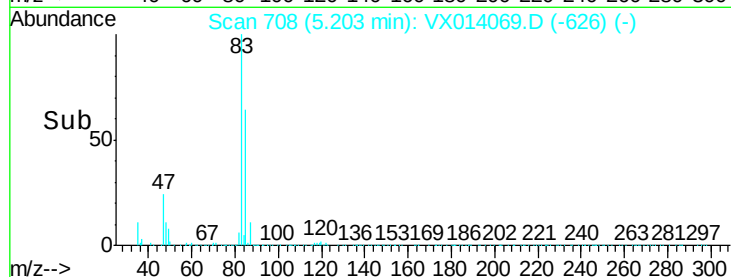
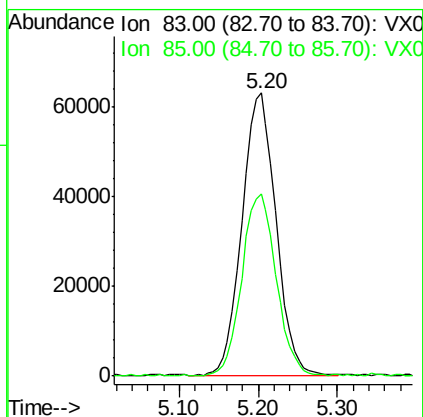
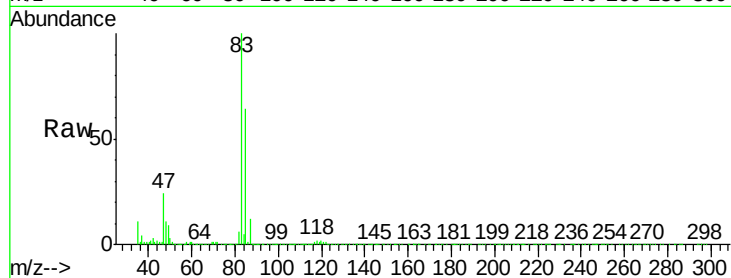
85 64.1 52.7 79.1

Manual Integrations

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#26

Cyclohexane

Concen: 19.243 ug/l

RT: 5.57 min Scan# 768

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

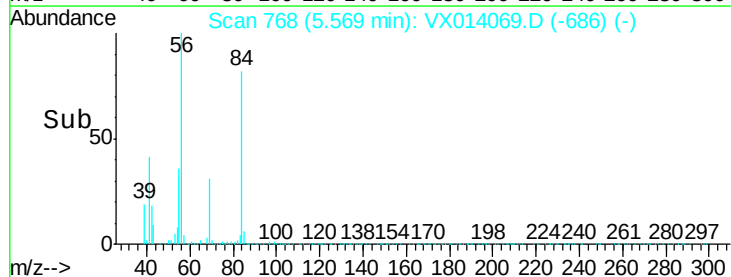
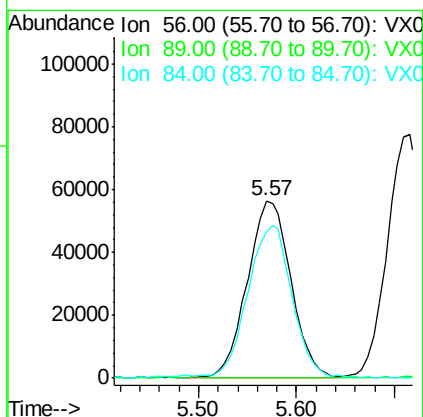
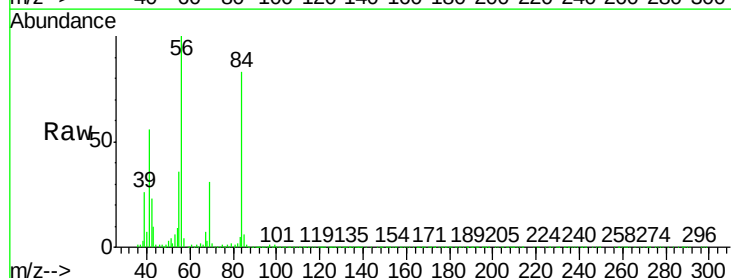
Tgt Ion: 56 Resp: 173484

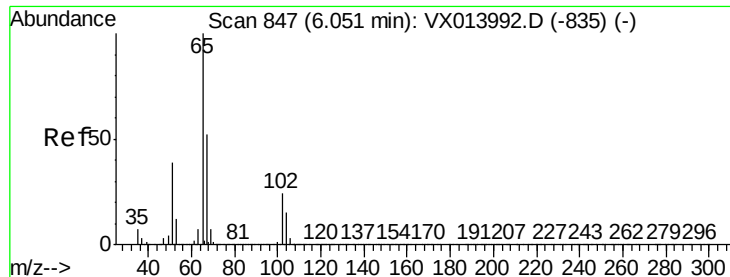
Ion Ratio Lower Upper

56 100

89 0.1 0.1 0.1

84 87.2 70.8 106.2





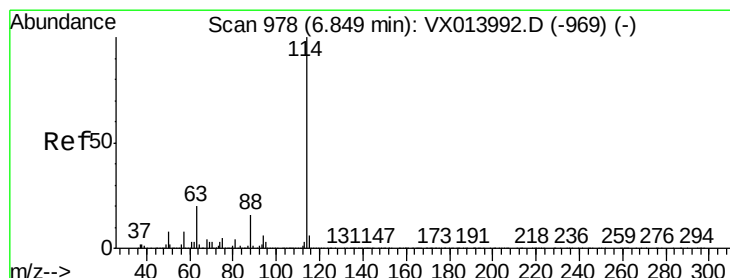
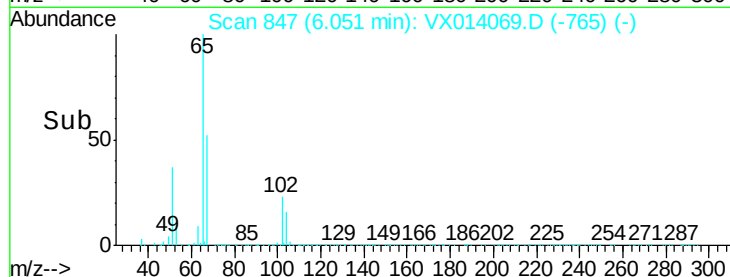
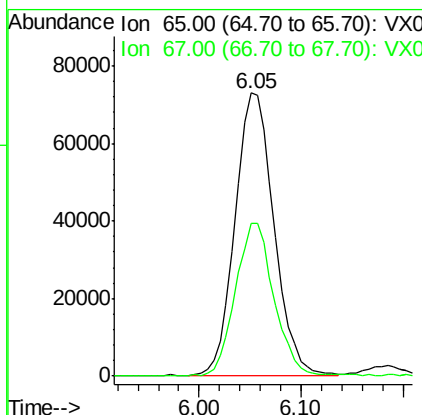
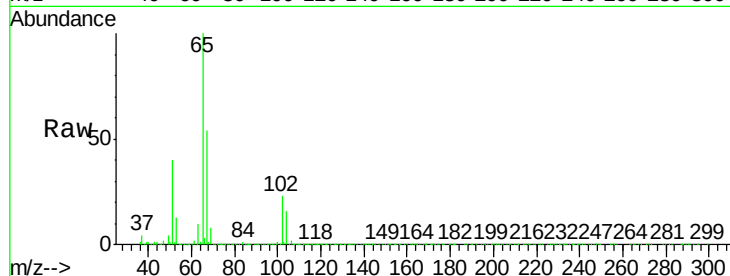
#27  
1,2-Dichloroethane-d4  
Concen: 29.830 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.9  | 43.1  | 64.7  |

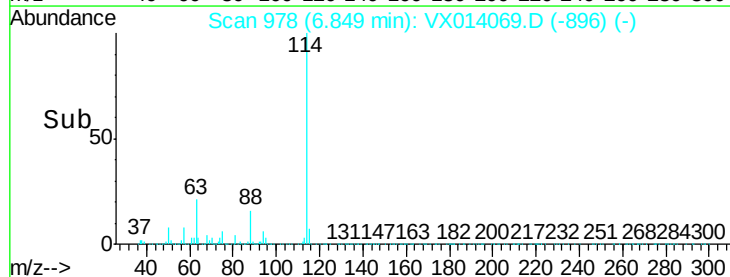
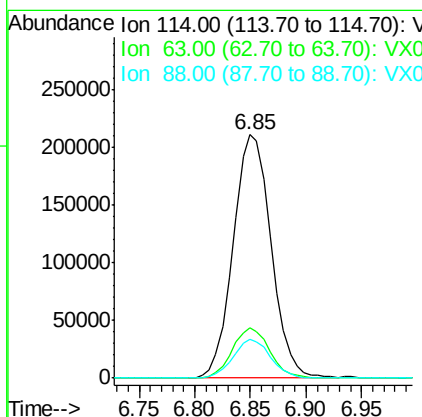
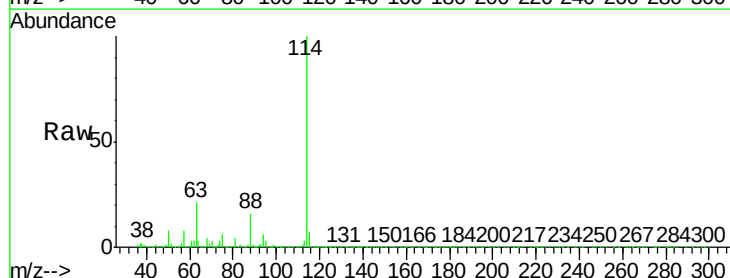
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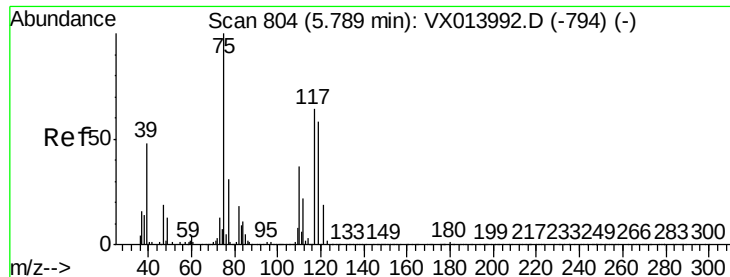
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#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 16.1  | 24.1  |
| 88      | 15.6  | 12.5  | 18.7  |





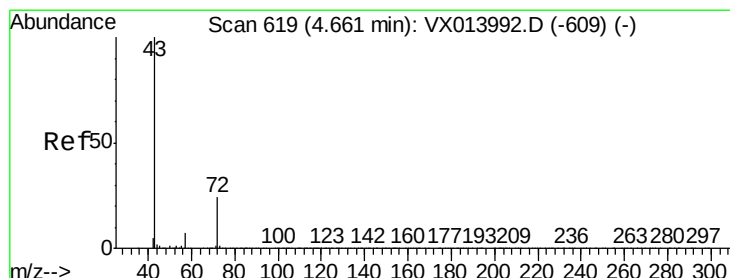
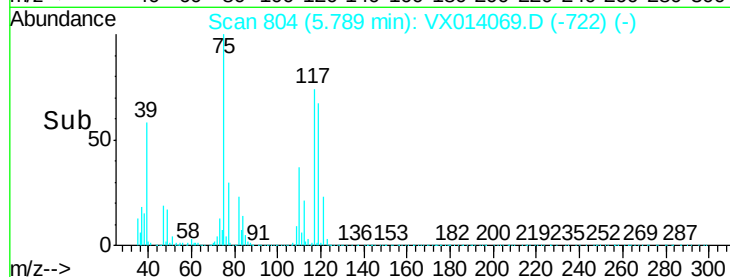
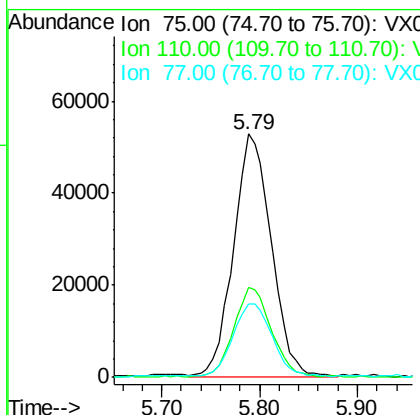
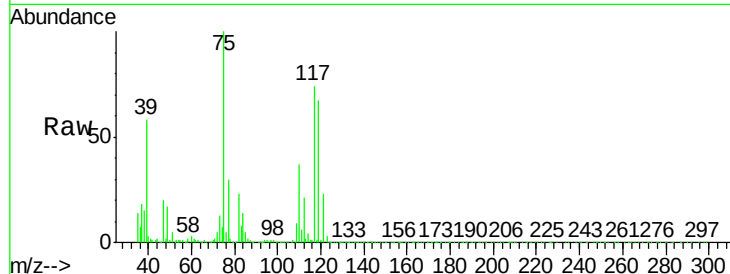
#29  
 1,1-Dichloropropene  
 Concen: 19.577 ug/l  
 RT: 5.79 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 75      | 100   |            |       |
| 110     | 36.4  | 0.0        | 73.8  |
| 77      | 31.1  | 0.0        | 62.4  |

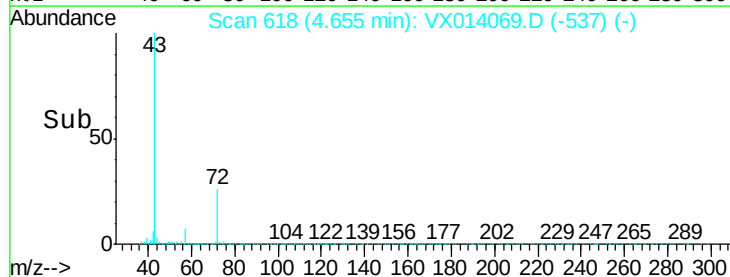
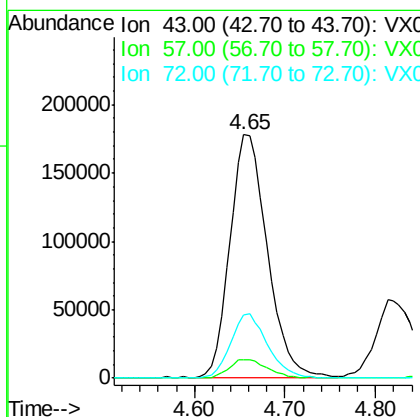
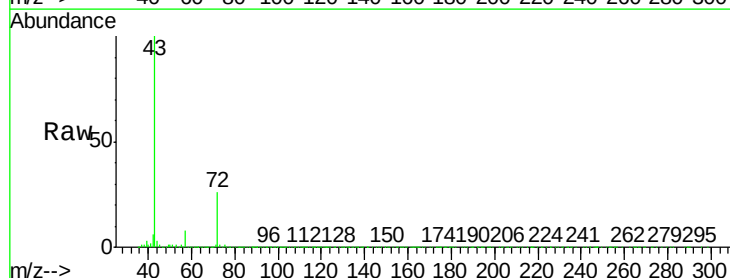
Manual Integrations  
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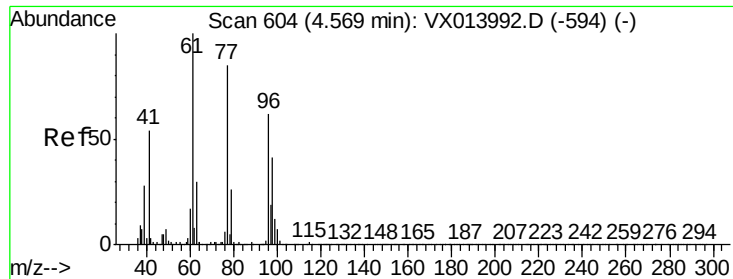
apatel  
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#30  
 2-Butanone  
 Concen: 118.871 ug/l  
 RT: 4.65 min Scan# 618  
 Delta R.T. -0.01 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 43      | 100   |            |       |
| 57      | 7.9   | 6.2        | 9.2   |
| 72      | 25.6  | 20.3       | 30.5  |





#31

2,2-Dichloropropane

Concen: 19.916 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 77 Resp: 132685

Ion Ratio Lower Upper

77 100

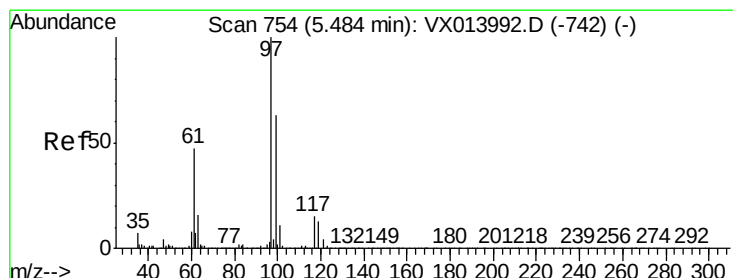
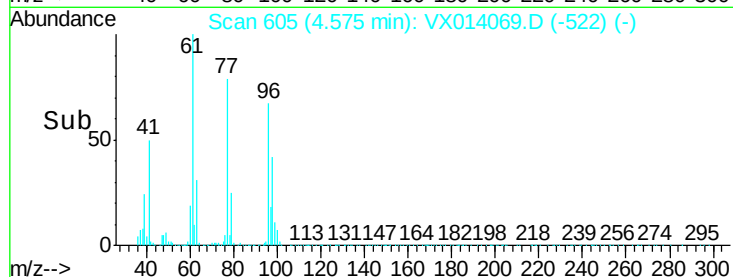
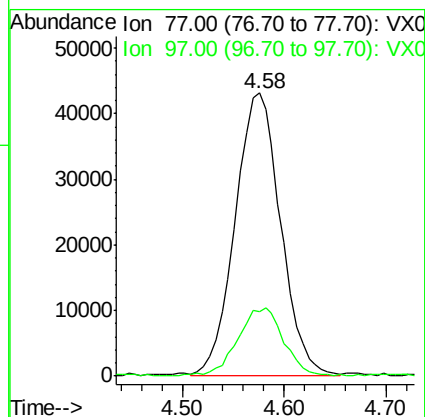
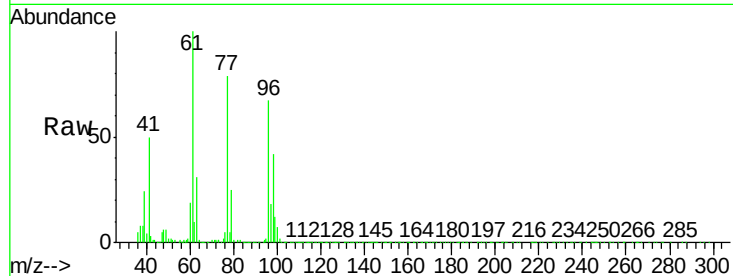
97 23.6 19.7 29.5

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 19.681 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

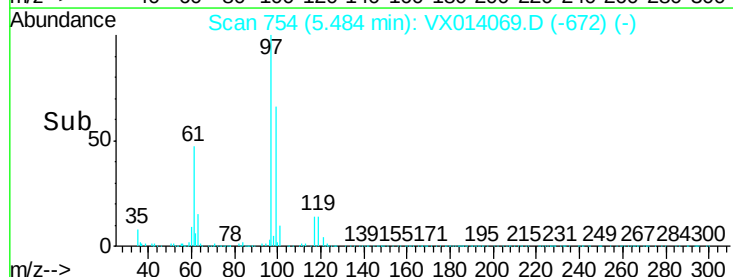
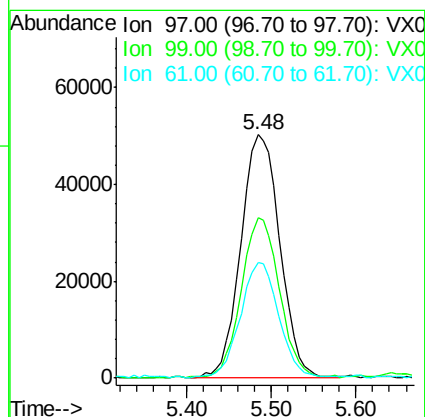
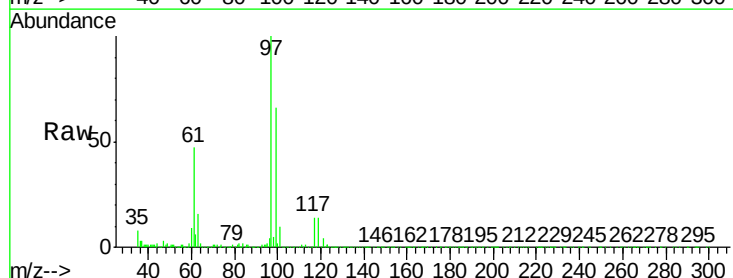
Tgt Ion: 97 Resp: 156784

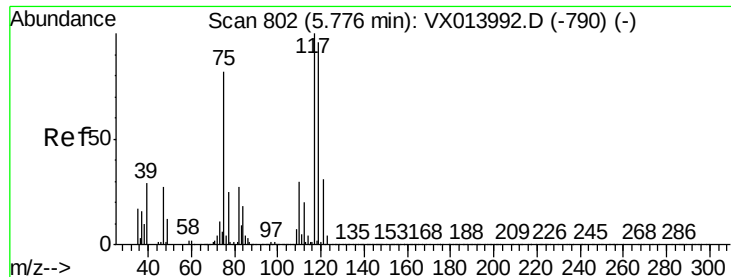
Ion Ratio Lower Upper

97 100

99 63.4 51.9 77.9

61 46.2 36.8 55.2





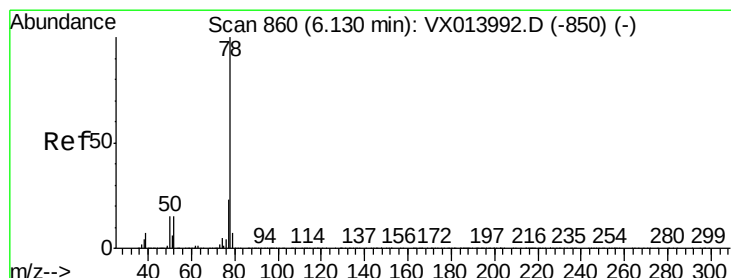
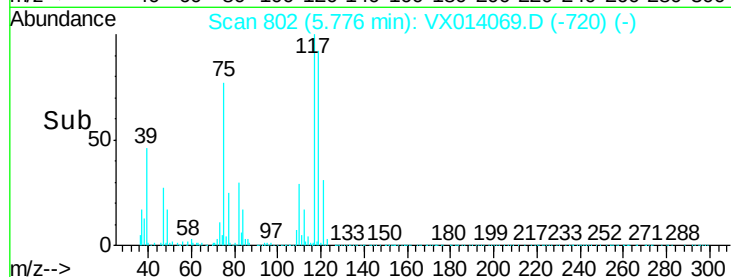
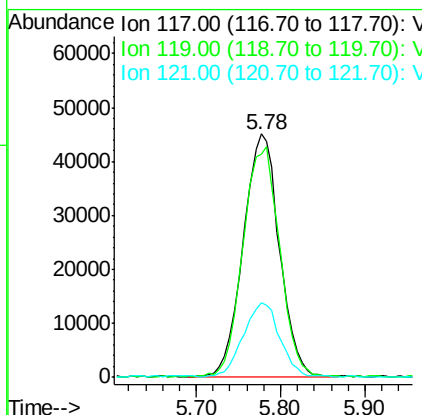
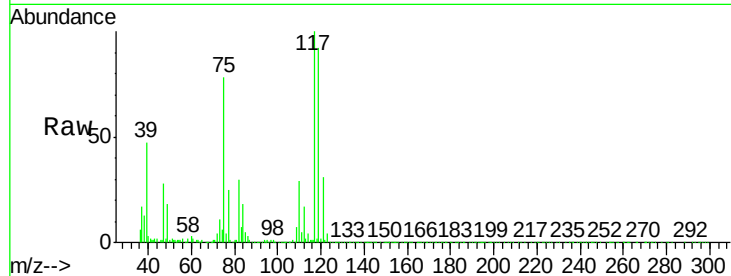
#33  
Carbon Tetrachloride  
Concen: 19.413 ug/l  
RT: 5.78 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 91.3  | 77.2  | 115.8 |
| 121     | 30.6  | 24.8  | 37.2  |

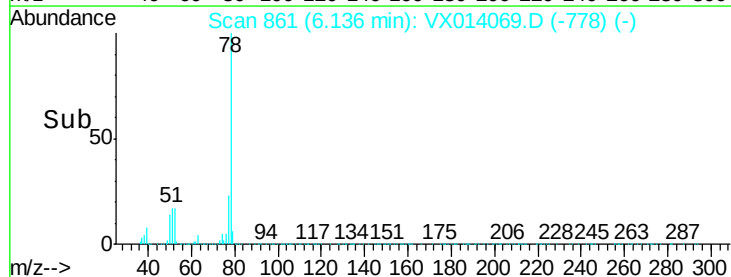
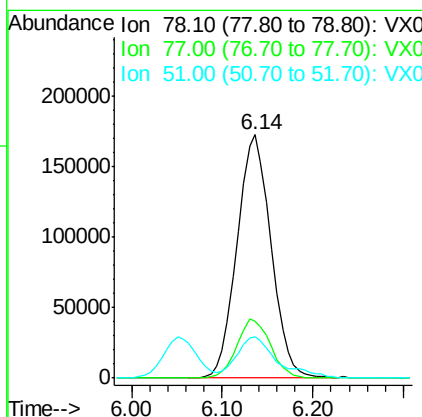
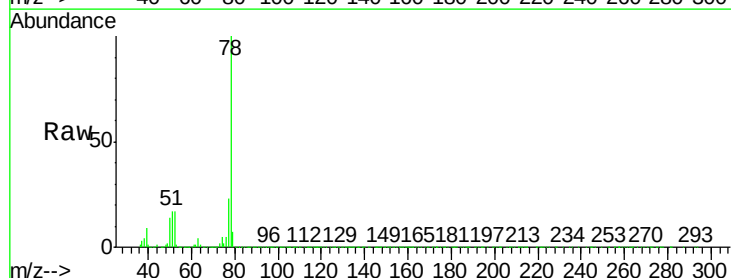
Manual Integrations  
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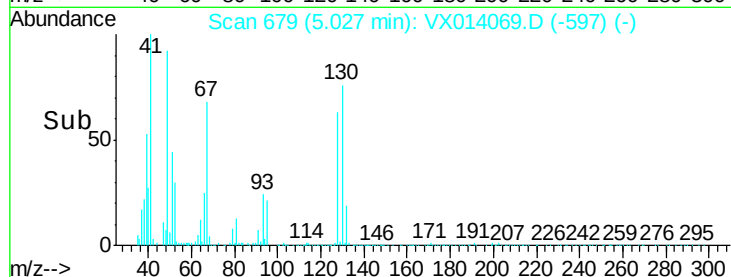
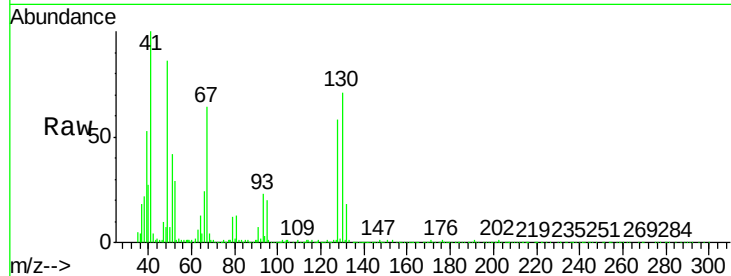
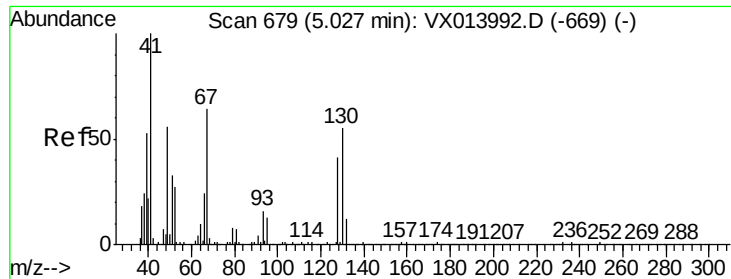
apatel  
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#34  
Benzene  
Concen: 19.979 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. 0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

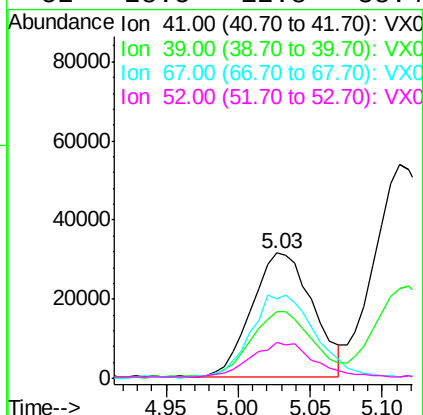
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.9  | 18.2  | 27.2  |
| 51      | 16.9  | 12.4  | 18.6  |





#35  
Methacrylonitrile  
Concen: 20.095 ug/l  
RT: 5.03 min Scan# 679  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

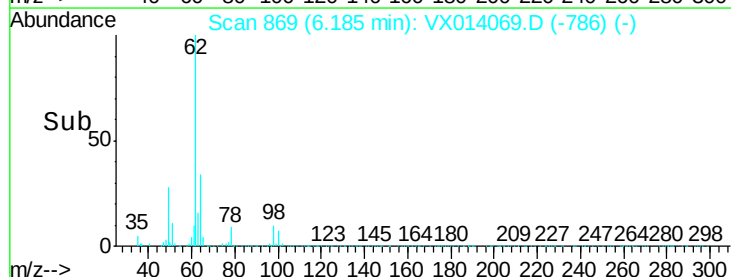
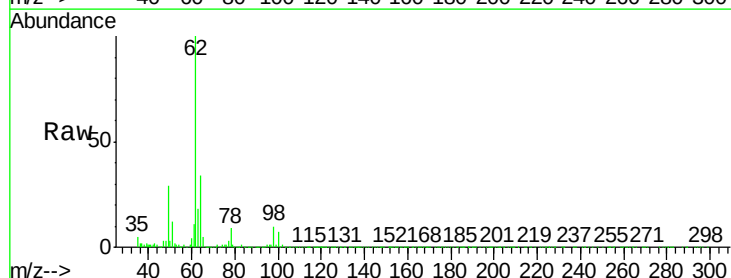
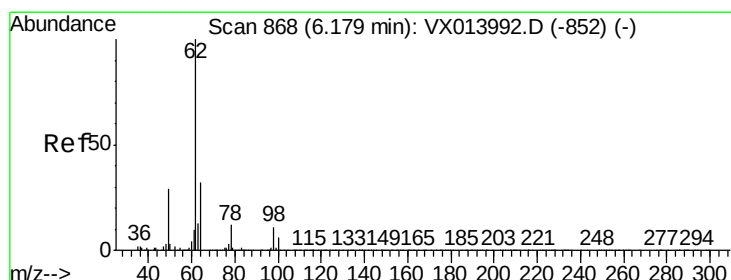
| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 41      | 41  | 100   |       |       |
| 39      | 39  | 52.0  | 26.7  | 80.1  |
| 67      | 67  | 63.7  | 31.5  | 94.5  |
| 52      | 52  | 28.5  | 12.8  | 38.4  |



Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

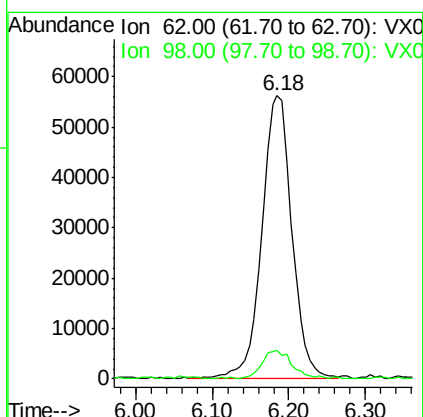
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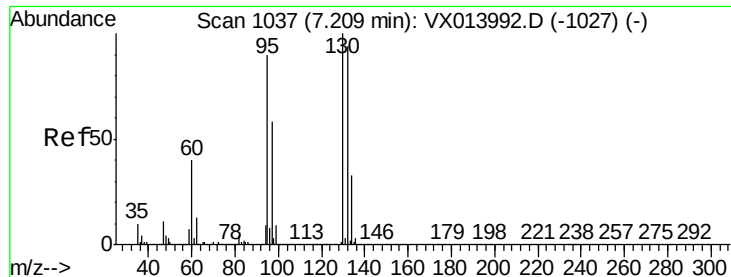
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#36  
1,2-Dichloroethane  
Concen: 19.571 ug/l  
RT: 6.18 min Scan# 869  
Delta R.T. 0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 62      | 62  | 100   |       |       |
| 98      | 98  | 10.0  | 8.4   | 12.6  |





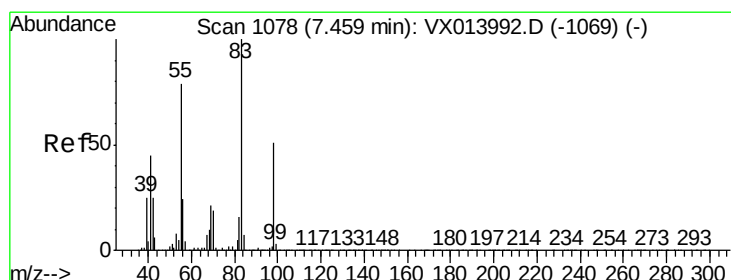
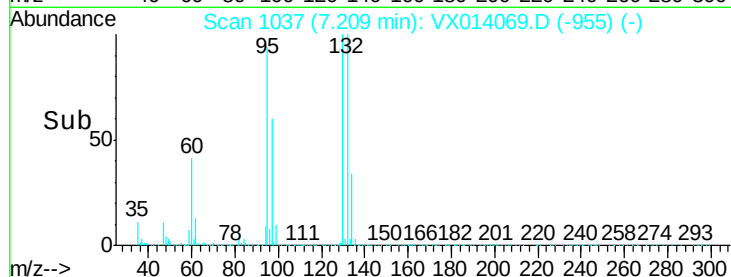
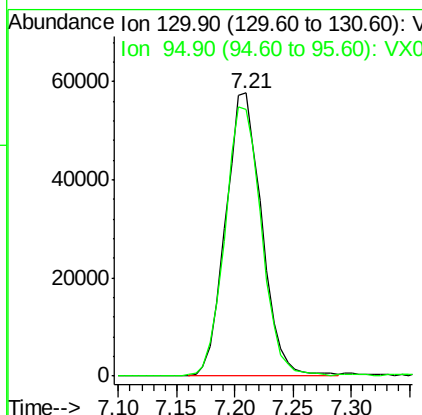
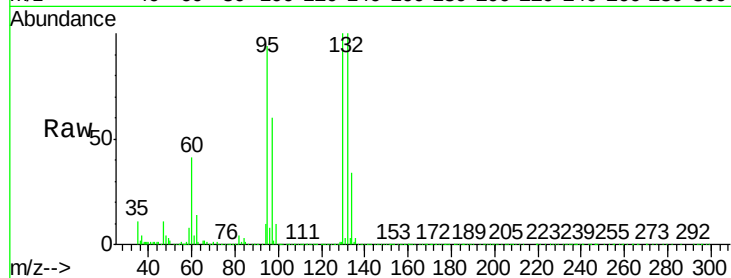
#37  
 Trichloroethene  
 Concen: 20.372 ug/l  
 RT: 7.21 min Scan# 1037  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 94.0  | 71.7  | 107.5 |

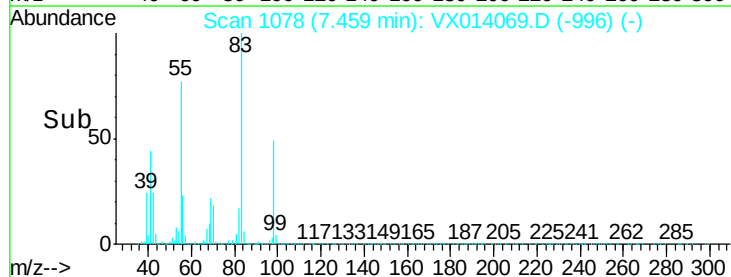
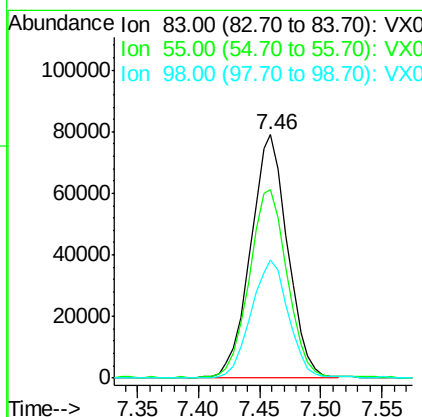
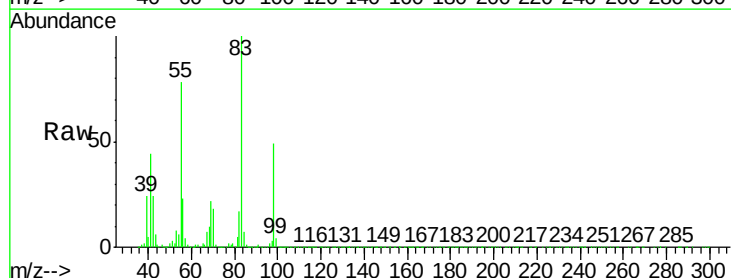
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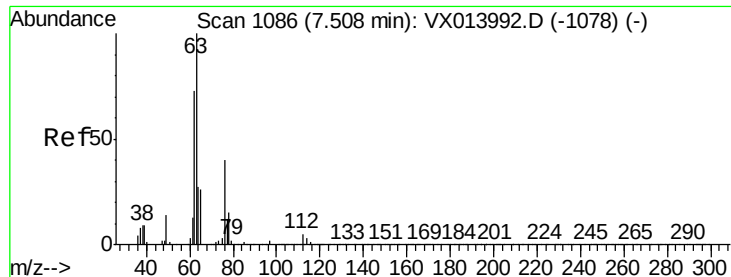


#38  
 Methylcyclohexane  
 Concen: 19.294 ug/l  
 RT: 7.46 min Scan# 1078  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 78.7  | 39.4  | 118.1 |
| 98      | 49.0  | 25.1  | 75.3  |







#39

1,2-Dichloropropane

Concen: 19.160 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 63 Resp: 111757

Ion Ratio Lower Upper

63 100

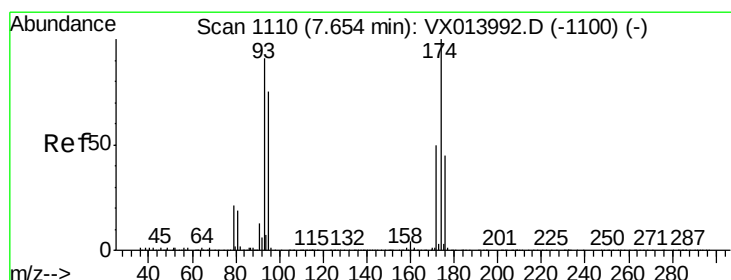
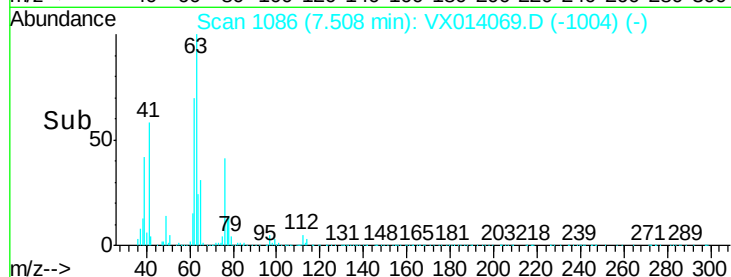
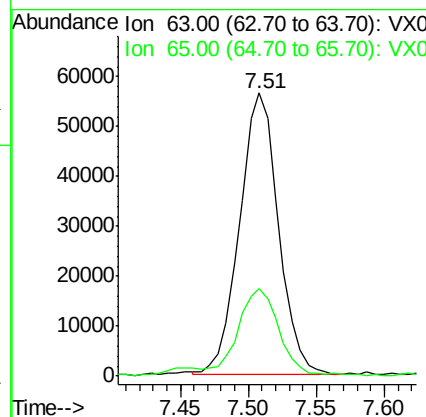
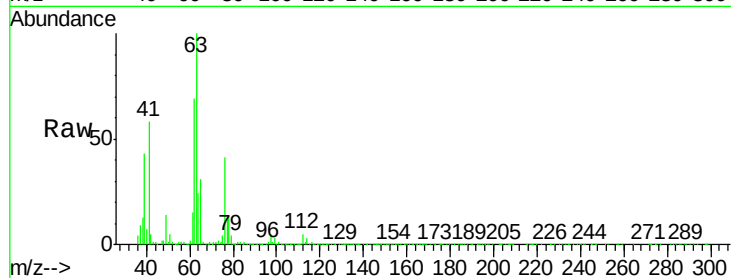
65 30.3 22.1 33.1

Manual Integrations

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#40

Dibromomethane

Concen: 19.942 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

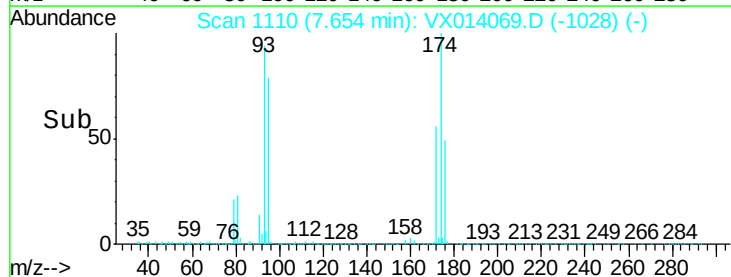
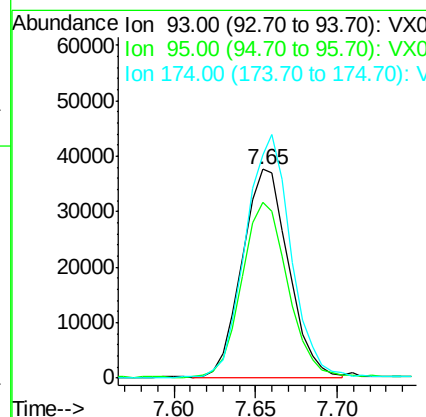
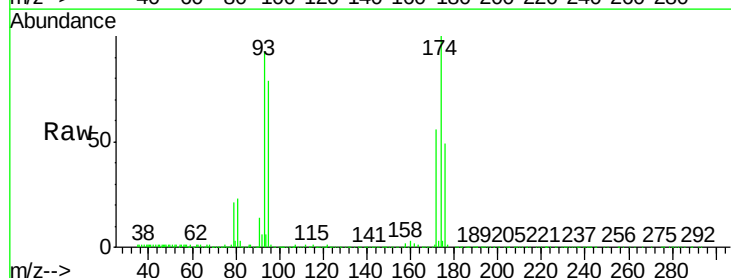
Tgt Ion: 93 Resp: 74307

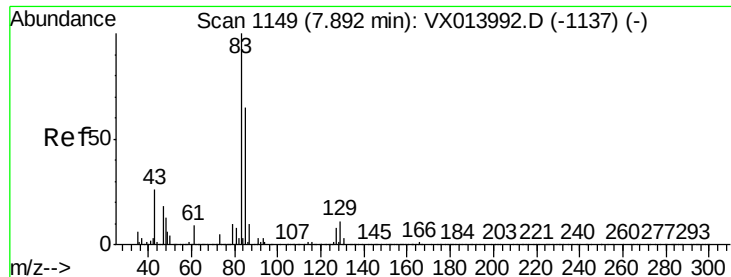
Ion Ratio Lower Upper

93 100

95 84.8 0.0 164.4

174 112.7 0.0 228.8





#41

Bromodichloromethane

Concen: 19.263 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

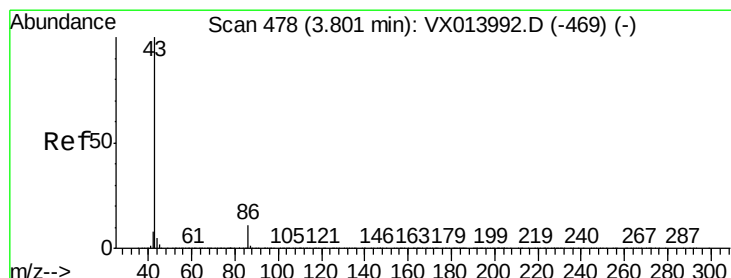
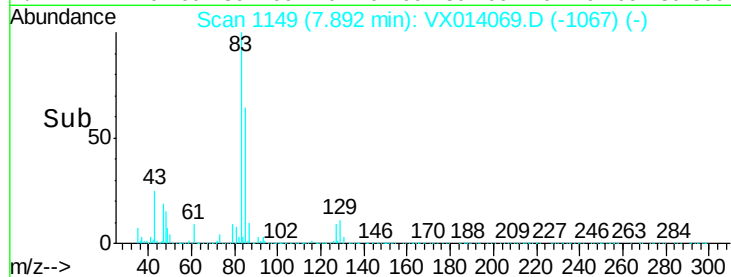
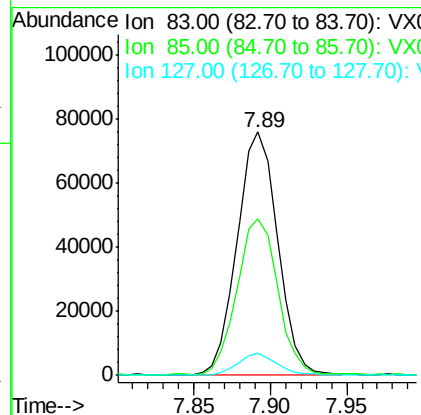
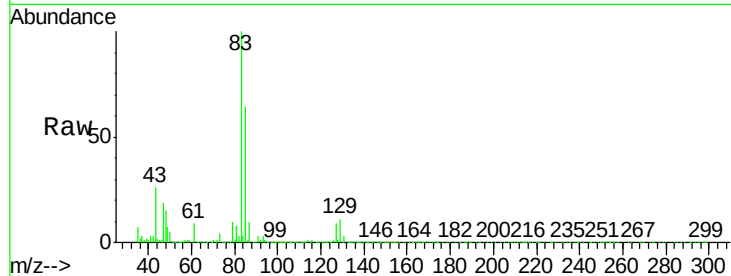
ClientSampleId :

VSTDCCC020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 138983 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 63.8  | 51.6  | 77.4   |
| 127       | 8.8   | 6.0   | 9.0    |

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#42

Vinyl Acetate

Concen: 68.359 ug/l

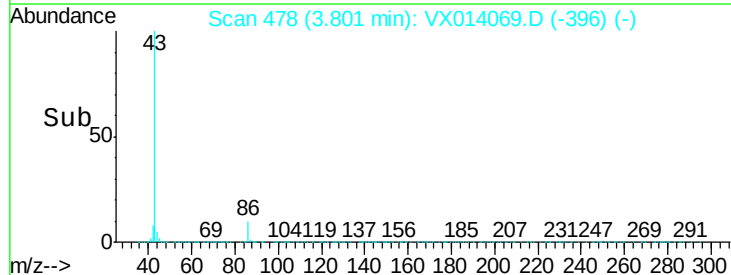
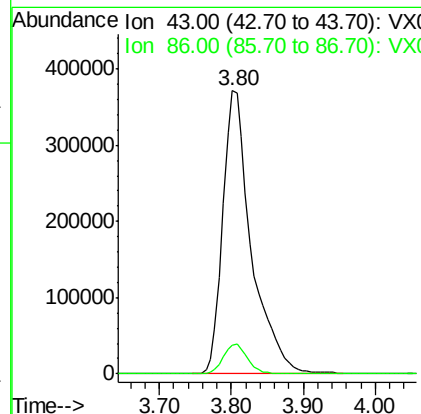
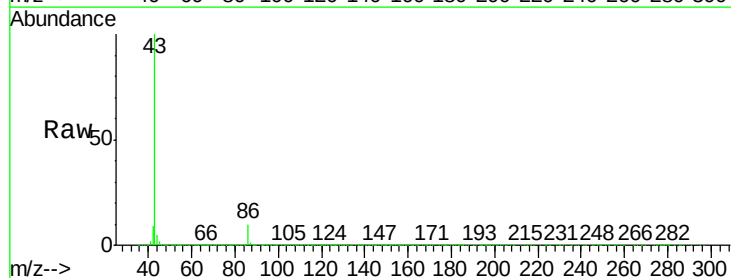
RT: 3.80 min Scan# 478

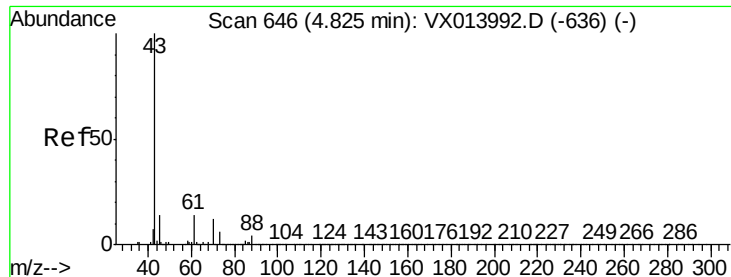
Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 43    | Resp: | 1024584 |
| Ion Ratio | Lower | Upper |         |
| 43        | 100   |       |         |
| 86        | 8.8   | 7.7   | 11.5    |





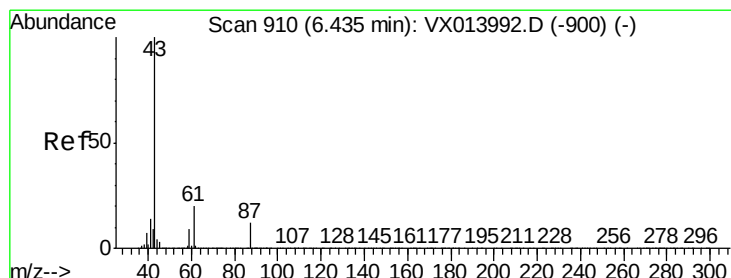
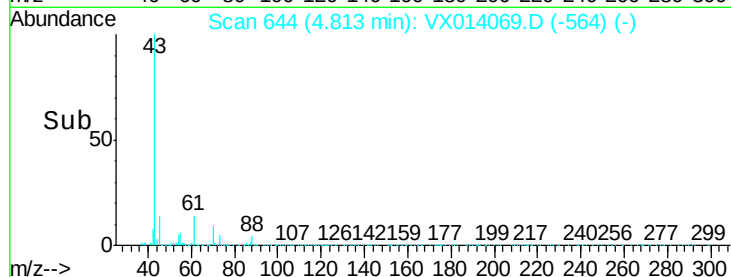
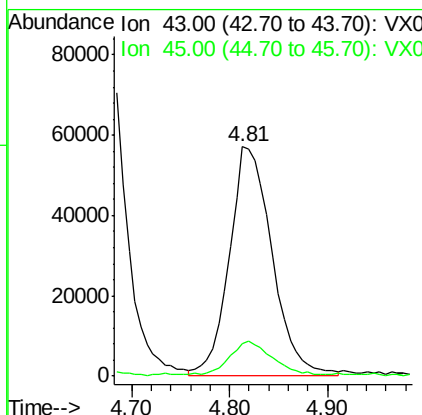
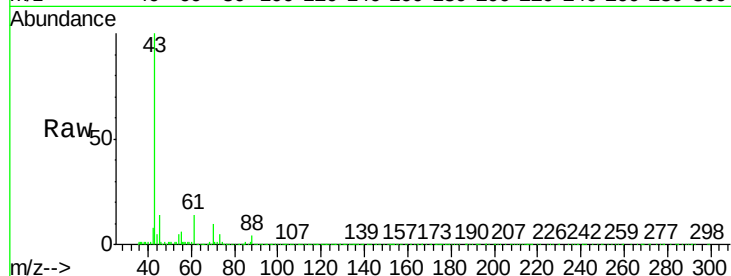
#43  
Ethyl Acetate  
Concen: 21.195 ug/l  
RT: 4.81 min Scan# 644  
Delta R.T. -0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

Tot Ion: 43 Resp: 172652  
Ion Ratio Lower Upper  
43 100  
45 15.0 11.8 17.8

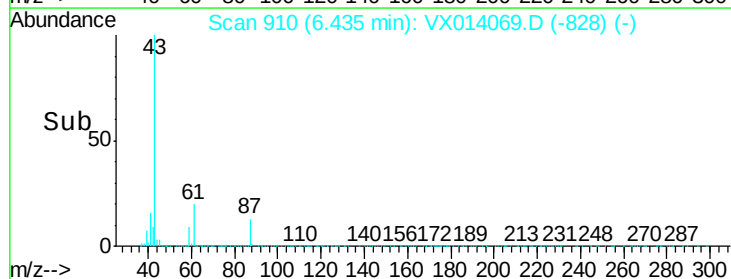
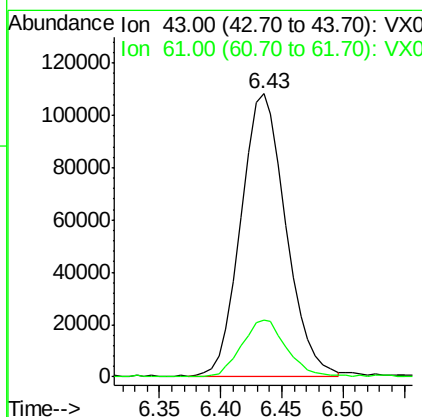
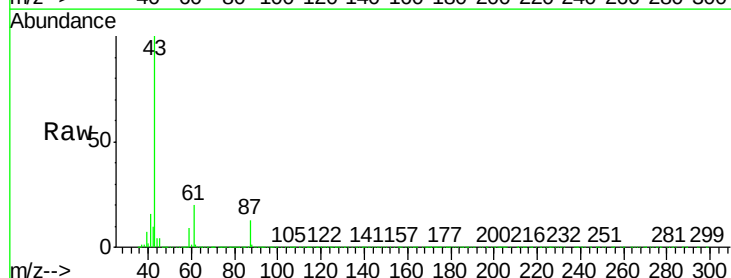
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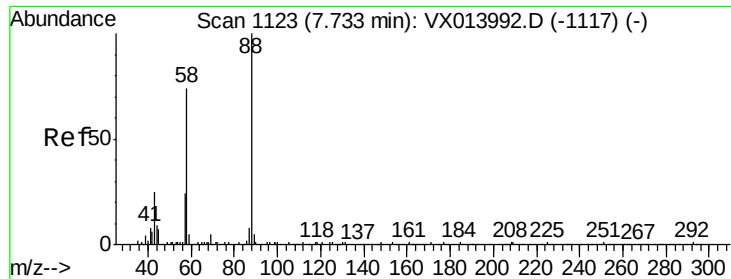
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#44  
Isopropyl Acetate  
Concen: 20.201 ug/l  
RT: 6.43 min Scan# 910  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Tgt Ion: 43 Resp: 275612  
Ion Ratio Lower Upper  
43 100  
61 19.8 15.9 23.9





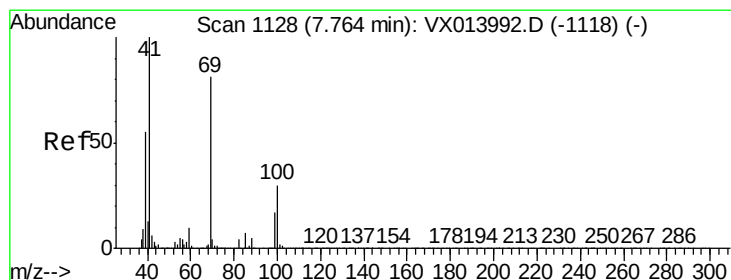
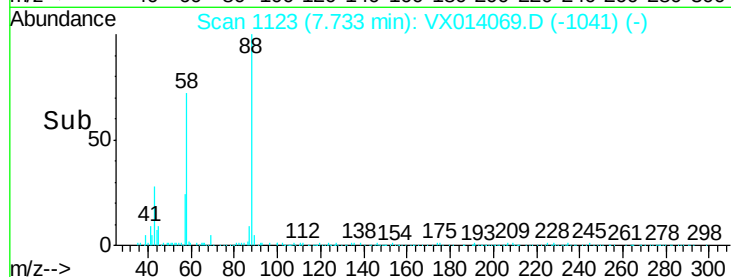
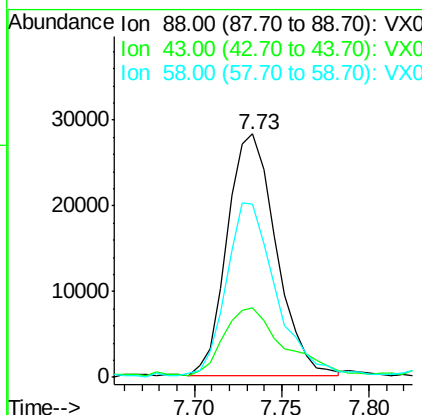
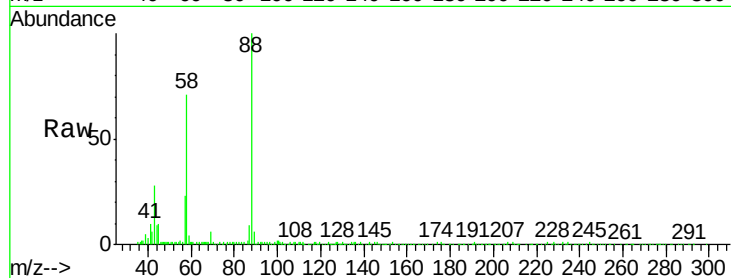
#45  
1,4-Dioxane  
Concen: 429.165 ug/l  
RT: 7.73 min Scan# 1123  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 33.5  | 25.4  | 38.2  |
| 58      | 71.9  | 56.5  | 84.7  |

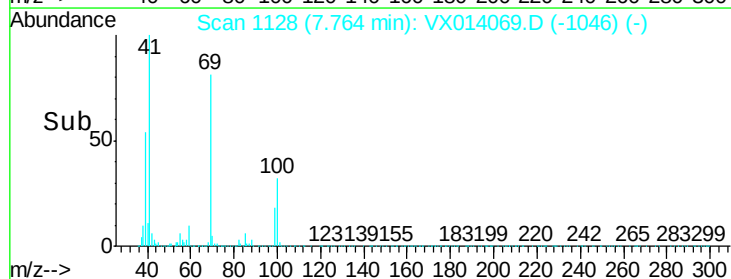
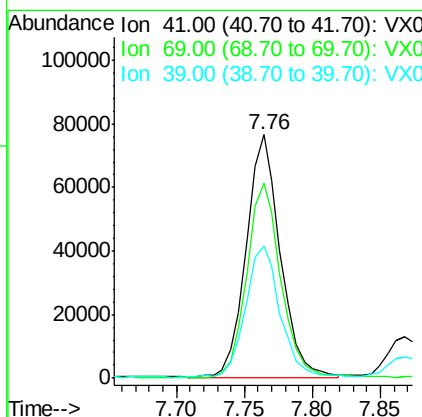
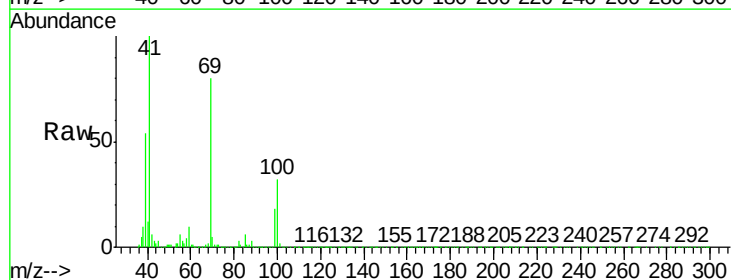
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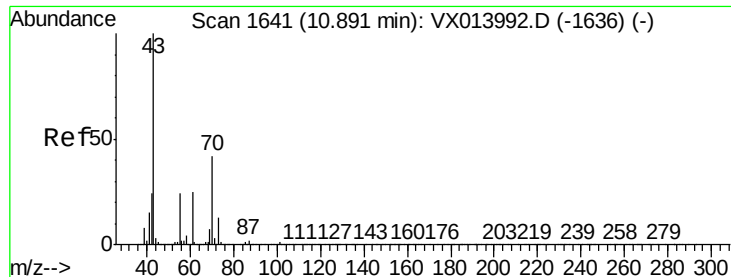
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#46  
Methyl methacrylate  
Concen: 20.210 ug/l  
RT: 7.76 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 80.1  | 40.6  | 122.0 |
| 39      | 53.6  | 27.8  | 83.3  |





#47

n-amvl Acetate

Concen: 18.398 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 43 Resp: 223193

Ion Ratio Lower Upper

43 100

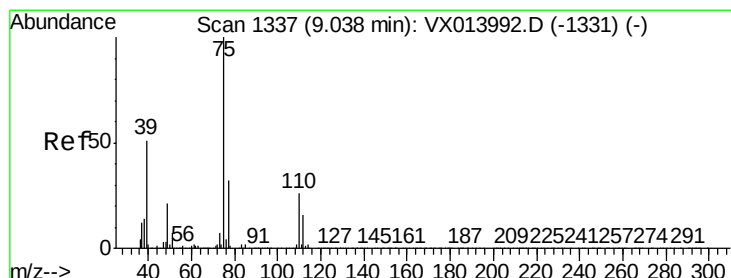
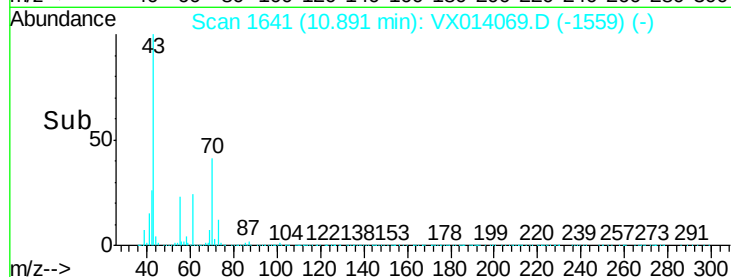
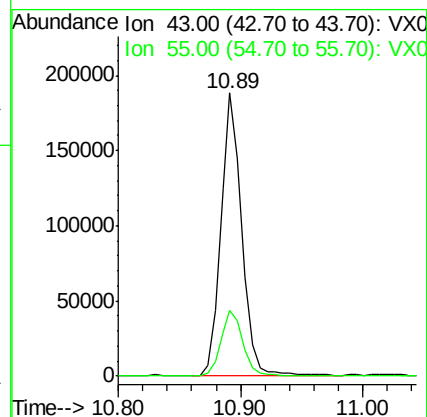
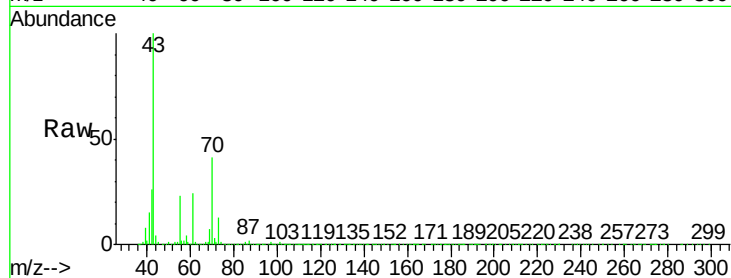
55 24.0 19.4 29.2

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#48

t-1,3-Dichloropropene

Concen: 19.309 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VX014069.D

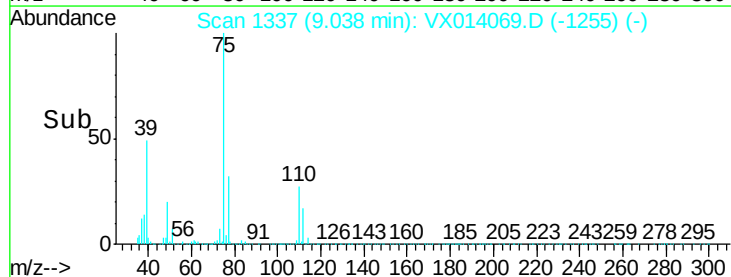
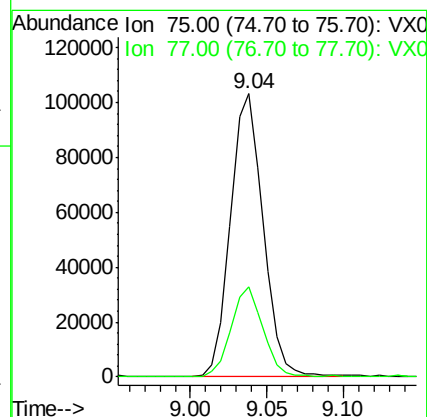
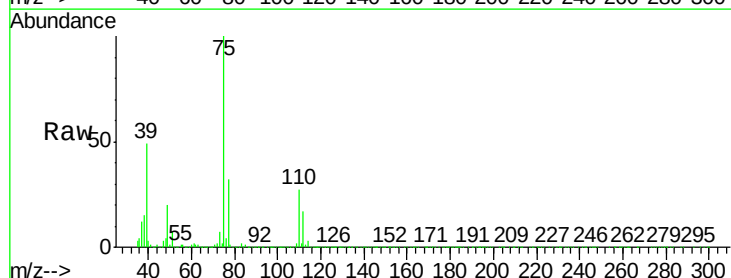
Acq: 17 Dec 2019 22:48

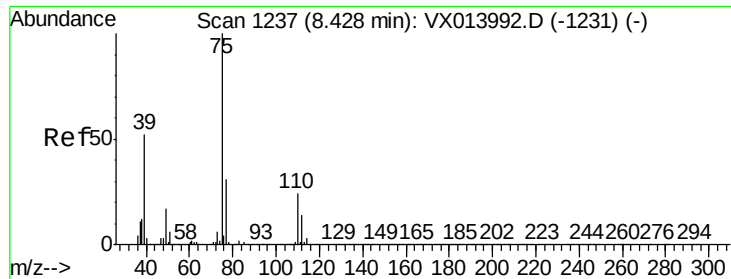
Tgt Ion: 75 Resp: 152057

Ion Ratio Lower Upper

75 100

77 31.8 26.0 39.0





#49

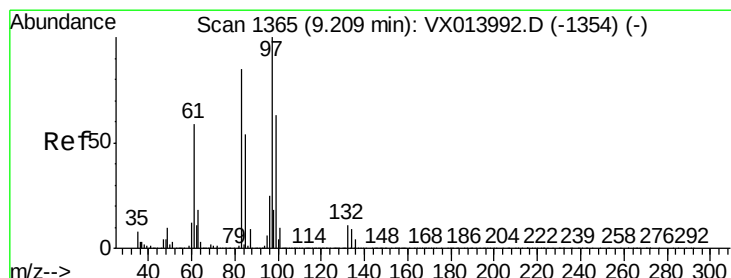
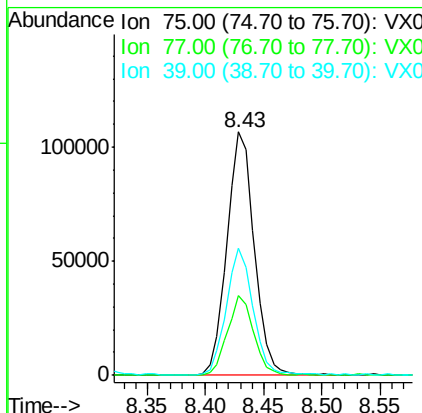
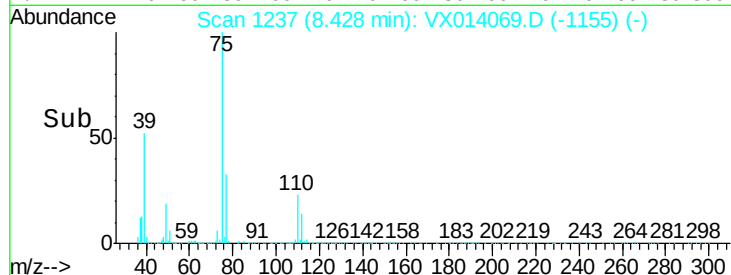
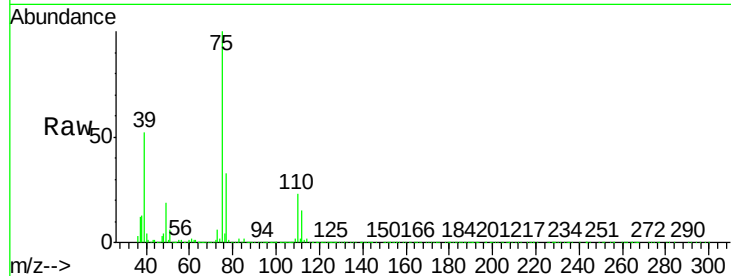
cis-1,3-Dichloropropene  
Concen: 19.652 ug/l  
RT: 8.43 min Scan# 1237  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 75    | Resp: | 174034 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 32.6  | 24.8  | 37.2   |
| 39        | 51.8  | 41.1  | 61.7   |

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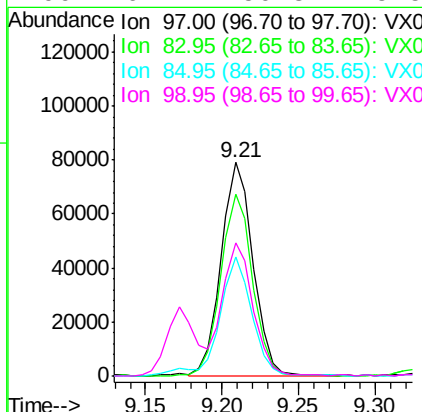
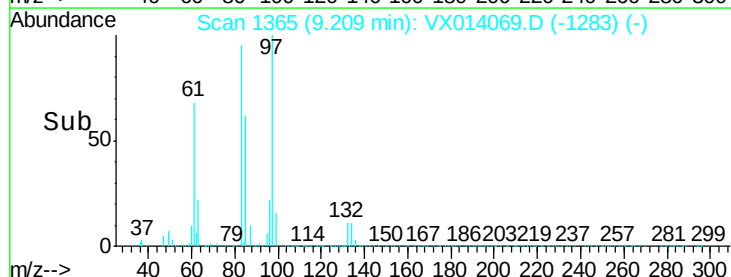
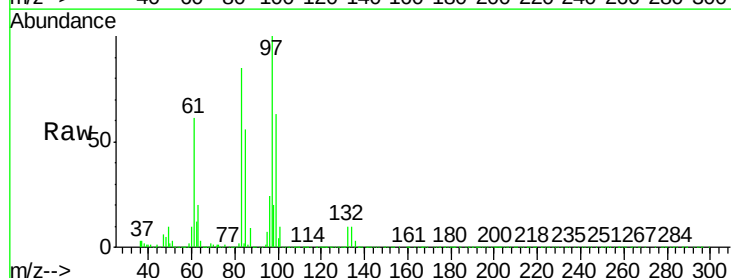
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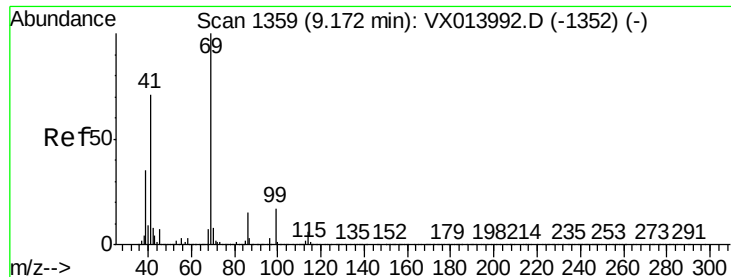


#50

1,1,2-Trichloroethane  
Concen: 19.884 ug/l  
RT: 9.21 min Scan# 1365  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 114348 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 83        | 85.2  | 68.1  | 102.1  |
| 85        | 55.9  | 42.7  | 64.1   |
| 99        | 62.4  | 50.3  | 75.5   |





#51

Ethyl methacrylate

Concen: 19.459 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

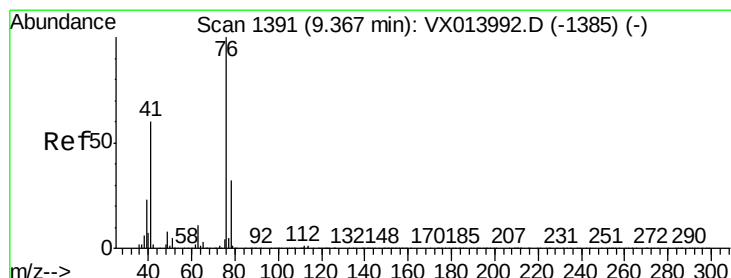
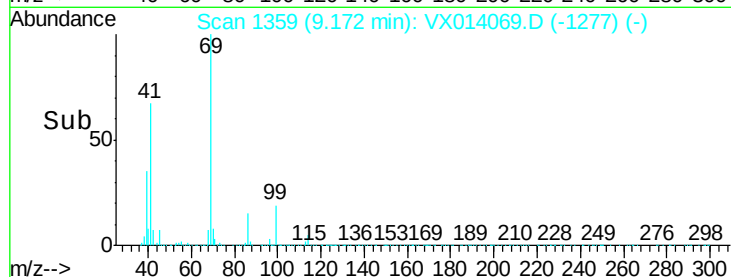
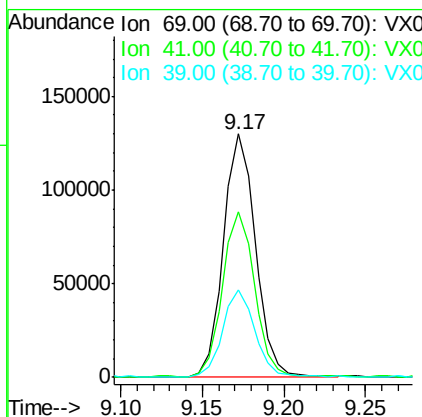
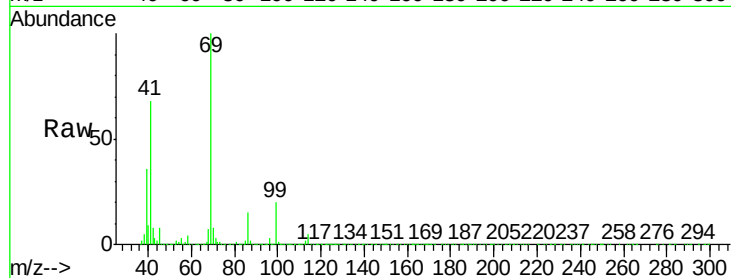
ClientSampleId :

VSTDCCC020

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 69    | Resp: | 177998 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 67.7  | 35.4  | 106.1  |
| 39       | 35.8  | 17.8  | 53.3   |

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#52

1,3-Dichloropropane

Concen: 19.590 ug/l

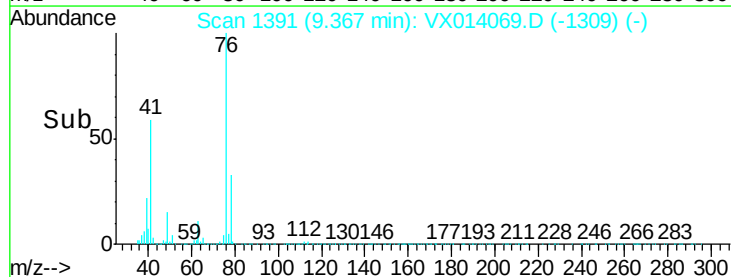
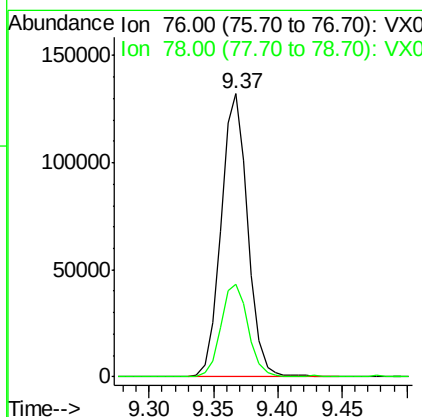
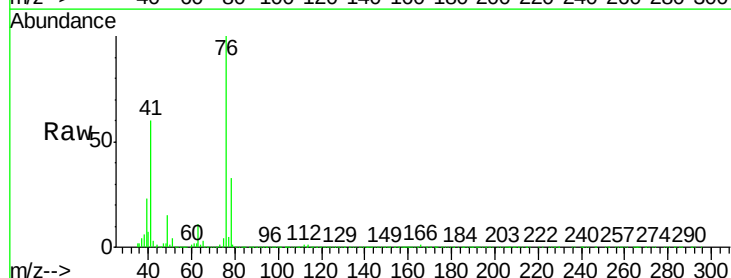
RT: 9.37 min Scan# 1391

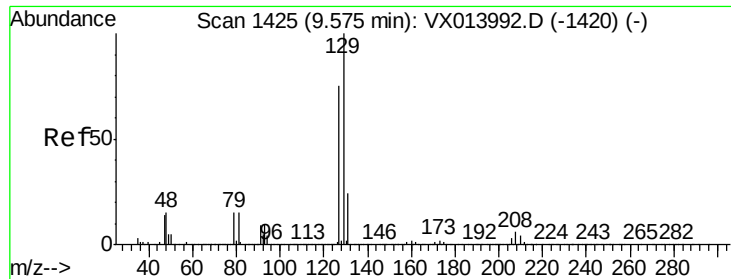
Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 76    | Resp: | 191401 |
| Ion      | Ratio | Lower | Upper  |
| 76       | 100   |       |        |
| 78       | 33.4  | 0.0   | 63.4   |





#53

Dibromochloromethane

Concen: 19.132 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion:129 Resp: 110014

Ion Ratio Lower Upper

129 100

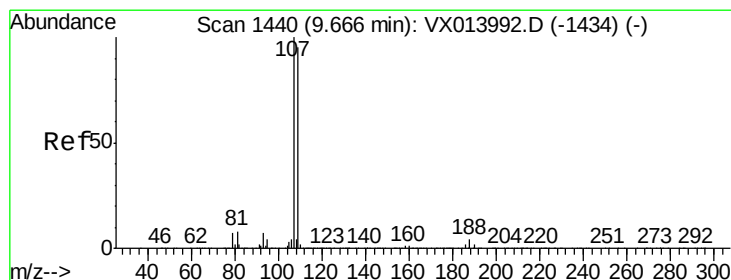
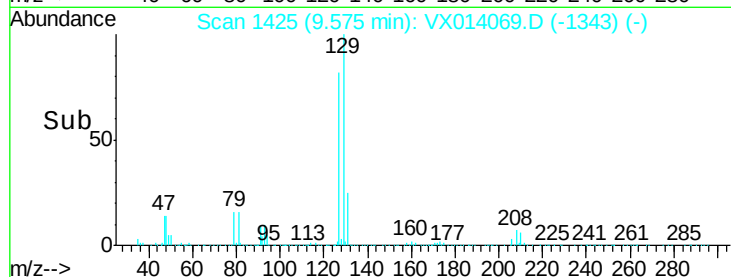
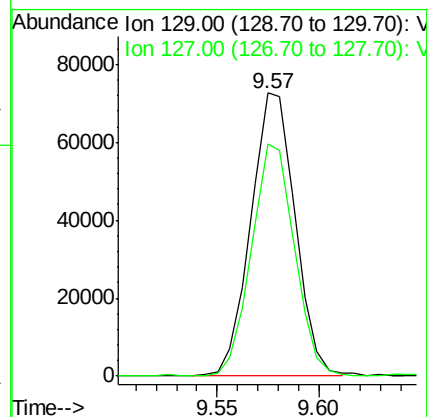
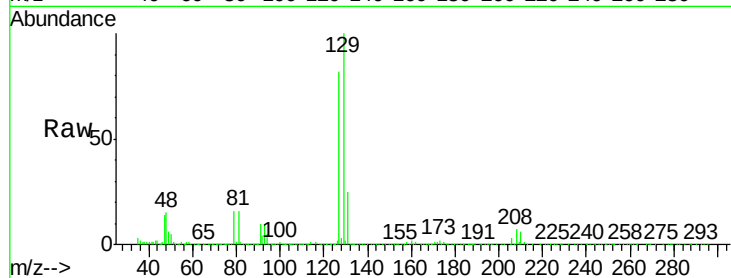
127 79.6 39.1 117.5

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#54

1,2-Dibromoethane

Concen: 19.765 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. 0.00 min

Lab File: VX014069.D

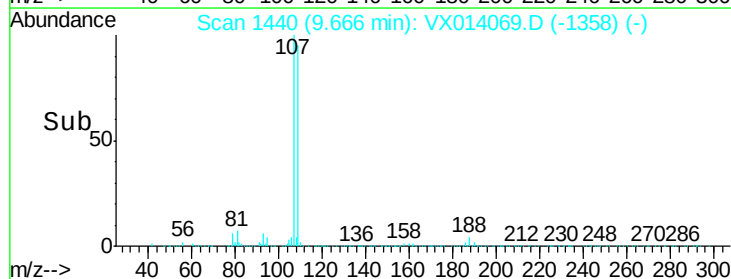
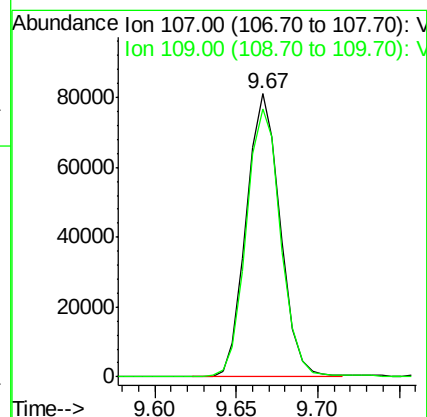
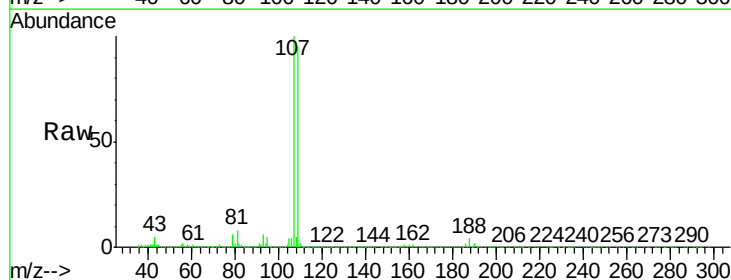
Acq: 17 Dec 2019 22:48

Tgt Ion:107 Resp: 117024

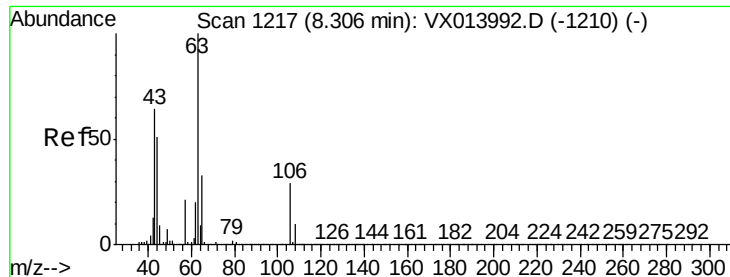
Ion Ratio Lower Upper

107 100

109 96.4 77.2 115.8







#55

2-Chloroethyl vinyl ether

Concen: 98.683 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

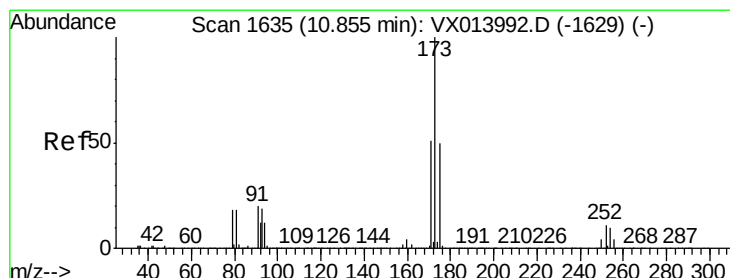
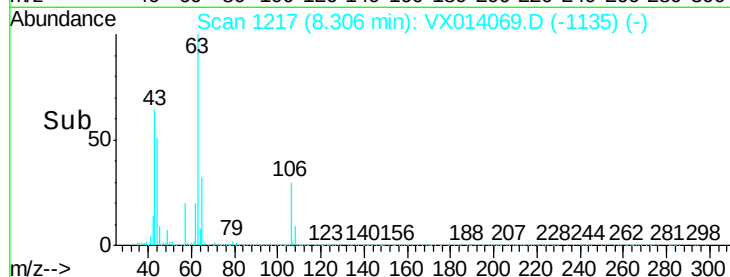
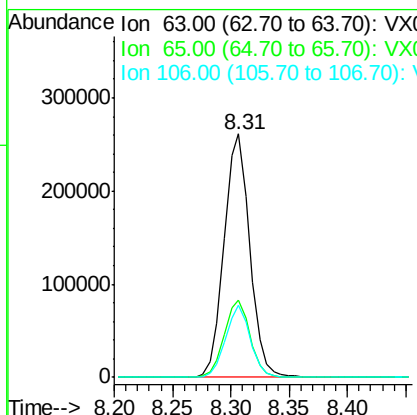
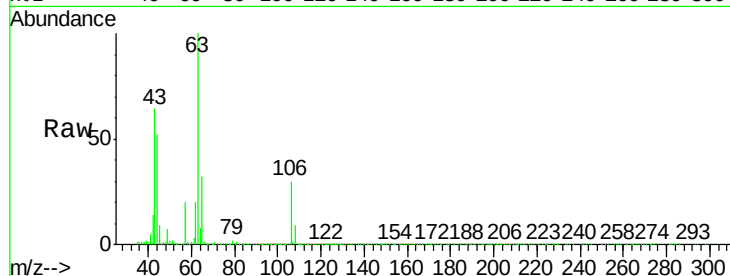
ClientSampleId :

VSTDCCC020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 63      | 100   | 397916 |       |       |
| 65      | 31.6  |        | 25.8  | 38.6  |
| 106     | 28.2  |        | 22.9  | 34.3  |

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#56

Bromoform

Concen: 18.613 ug/l

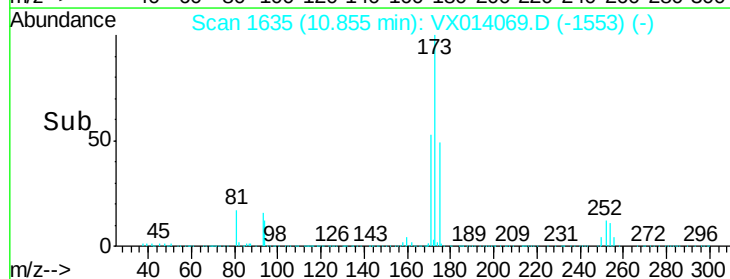
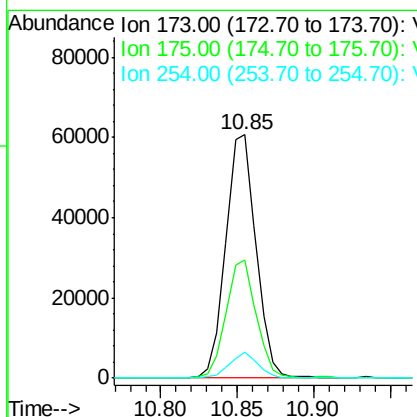
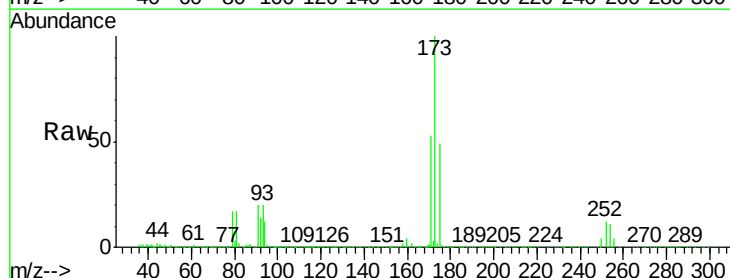
RT: 10.85 min Scan# 1635

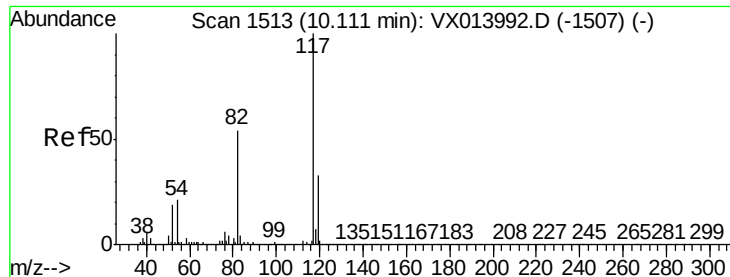
Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 173     | 100   | 83466 |       |       |
| 175     | 48.0  |       | 39.5  | 59.3  |
| 254     | 10.0  |       | 8.2   | 12.4  |





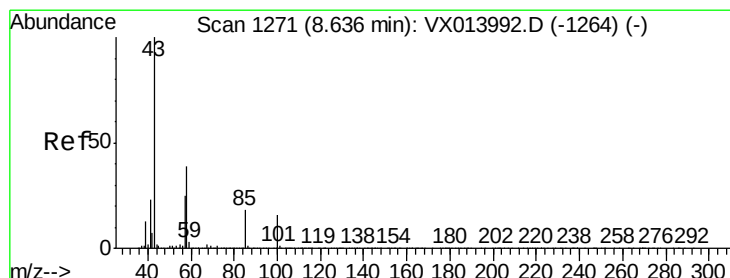
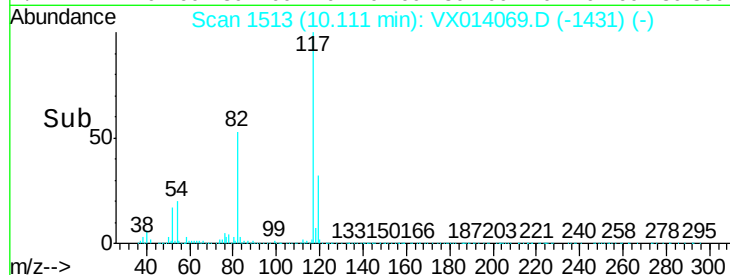
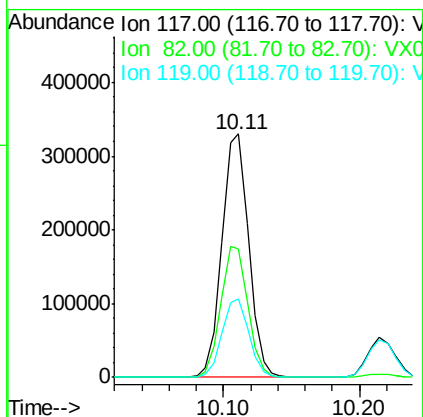
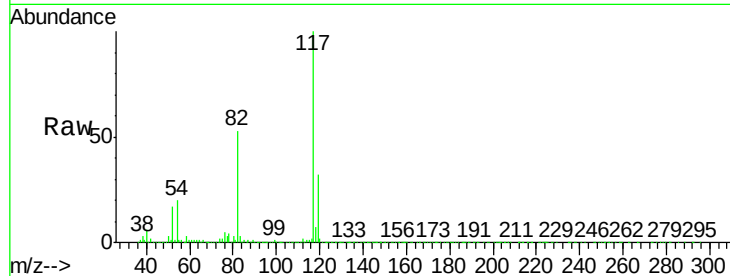
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 450945 |       |       |
| 82      | 54.5  |        | 43.8  | 65.6  |
| 119     | 32.1  |        | 25.8  | 38.6  |

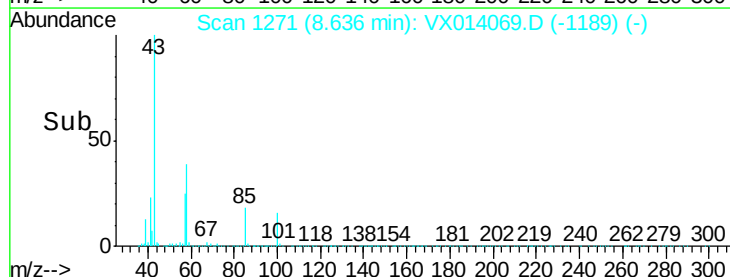
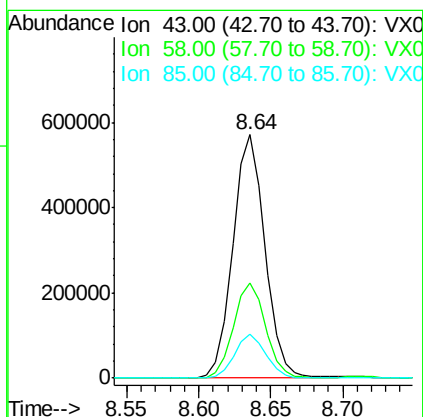
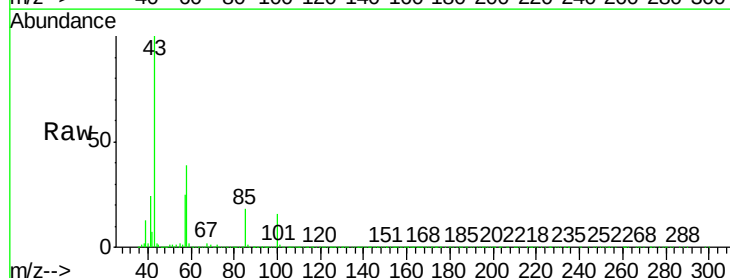
Manual Integrations  
APPROVED

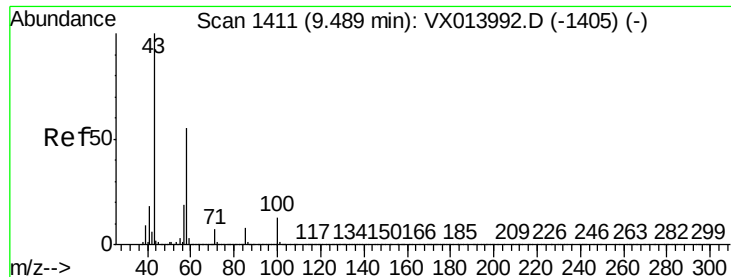
apatel  
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#58  
4-Methyl-2-Pentanone  
Concen: 105.131 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 887030 |       |       |
| 58      | 39.0  |        | 31.2  | 46.8  |
| 85      | 17.6  |        | 14.2  | 21.2  |





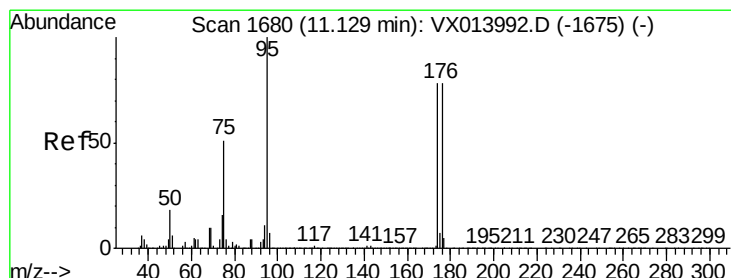
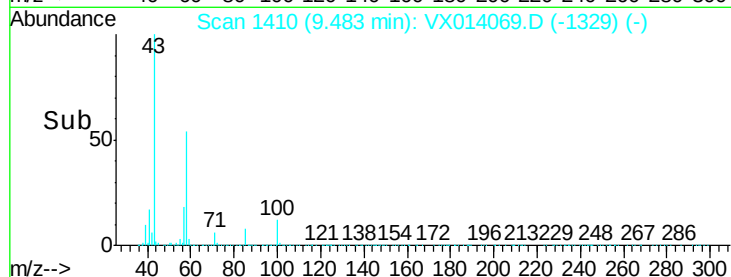
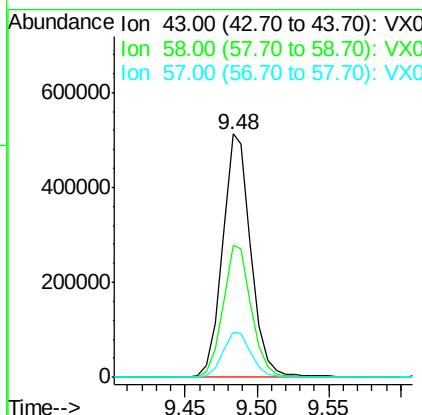
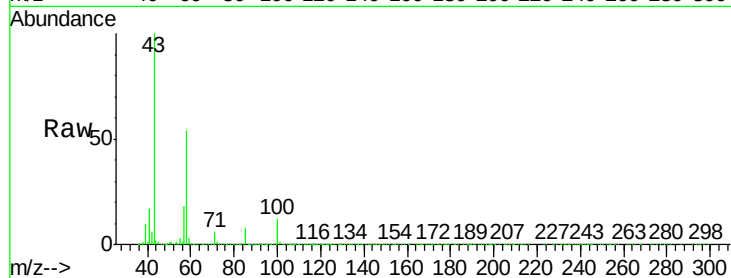
#59  
2-Hexanone  
Concen: 109.865 ug/l  
RT: 9.48 min Scan# 1410  
Delta R.T. -0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 54.8  | 43.8  | 65.6  |
| 57      | 18.8  | 15.4  | 23.0  |

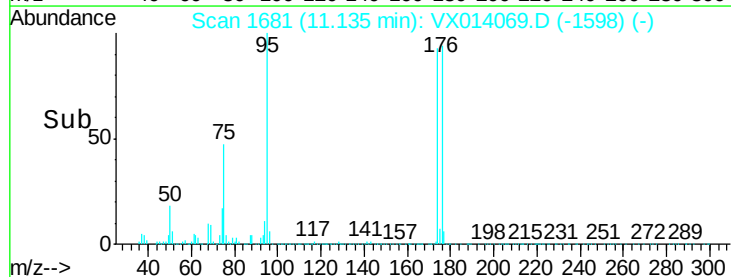
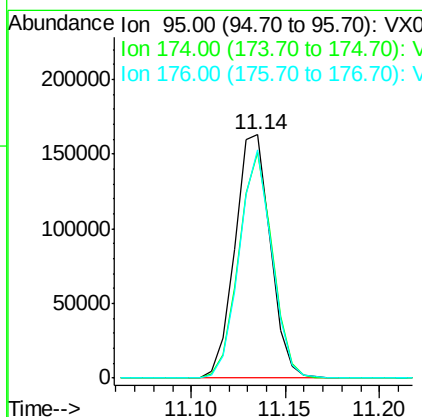
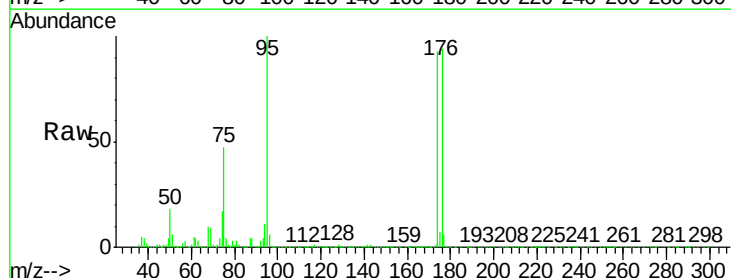
Manual Integrations  
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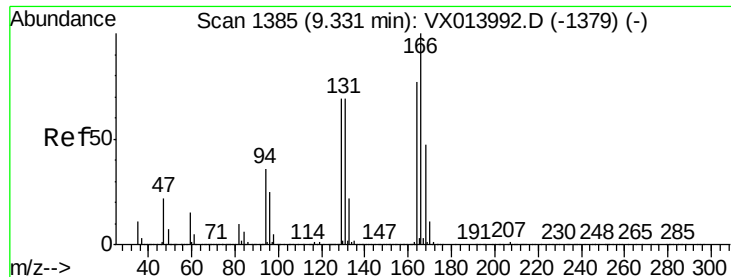
apatel  
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#60  
4-Bromofluorobenzene  
Concen: 29.206 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.9  | 70.2  | 105.2 |
| 176     | 86.5  | 68.3  | 102.5 |





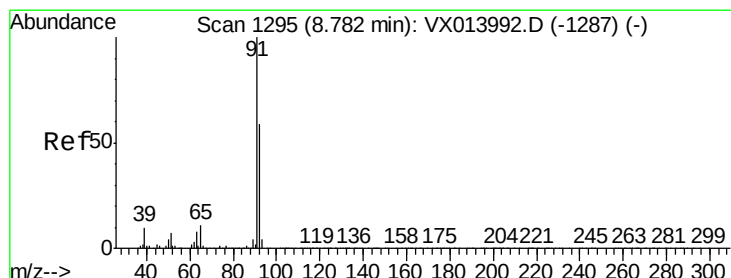
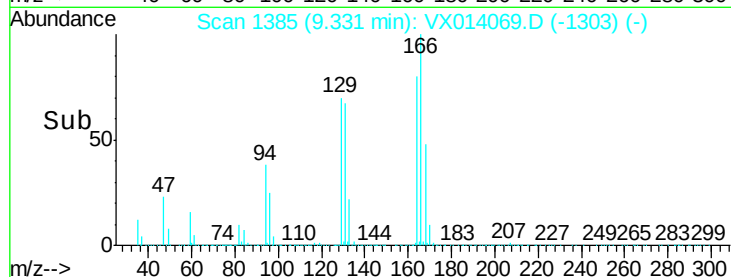
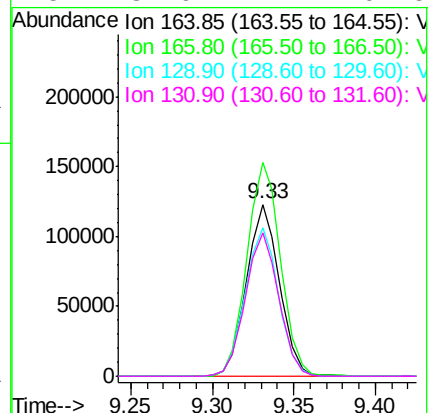
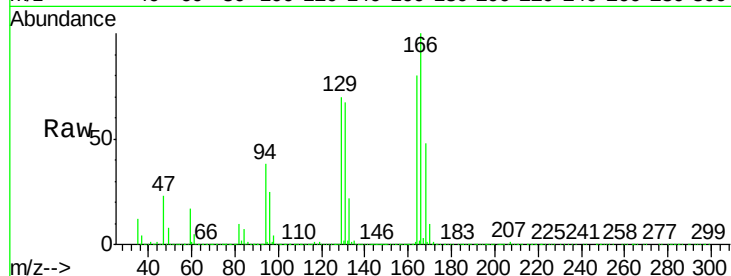
#61  
Tetrachloroethene  
Concen: 29.044 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.1 | 104.2 | 156.2 |
| 129     | 86.4  | 71.6  | 107.4 |
| 131     | 82.9  | 71.7  | 107.5 |

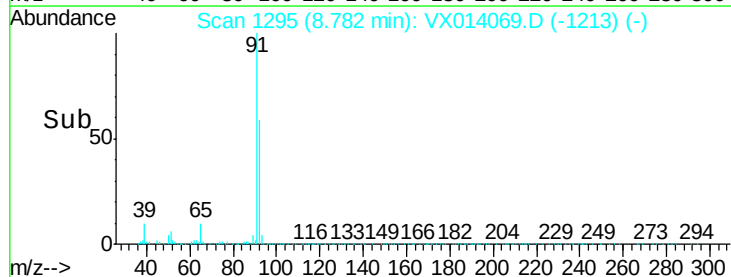
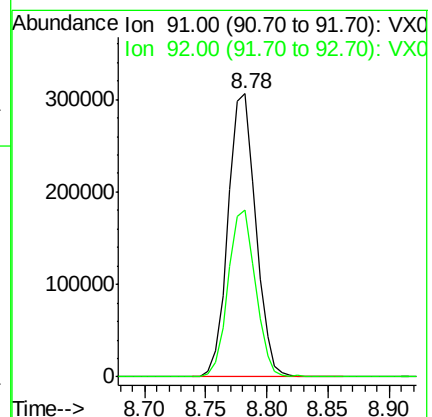
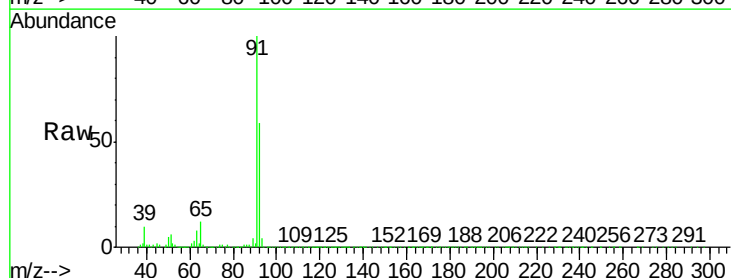
Manual Integrations  
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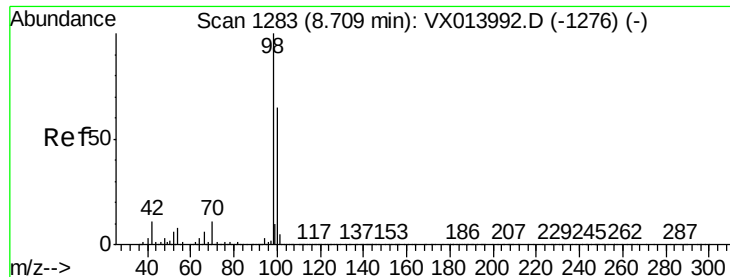
apatel  
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#62  
Toluene  
Concen: 19.940 ug/l  
RT: 8.78 min Scan# 1295  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 58.6  | 46.4  | 69.6  |





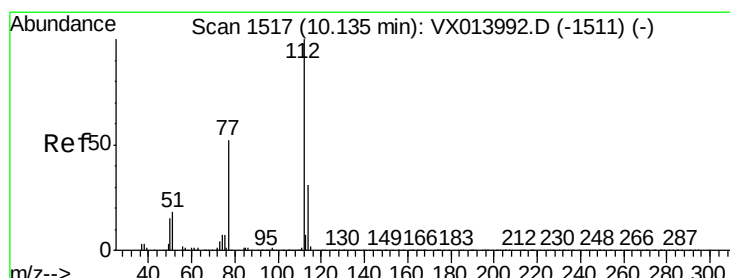
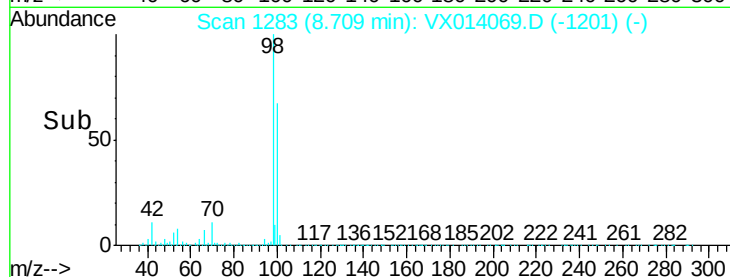
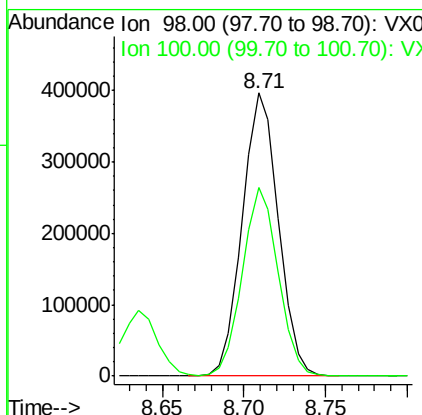
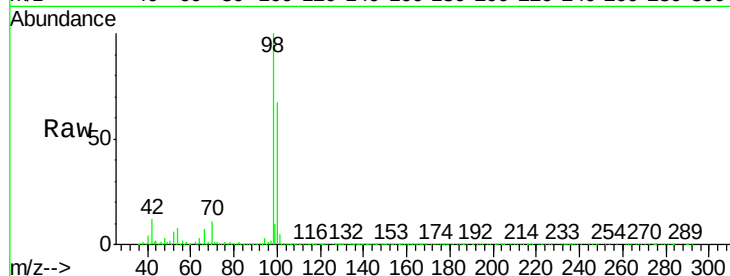
#63  
Toluene-d8  
Concen: 30.464 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

Tot Ion: 98 Resp: 614054  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.2 78.2

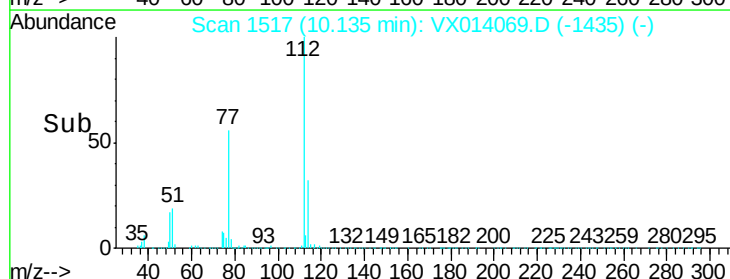
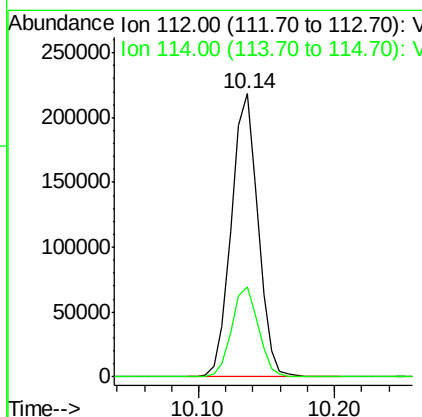
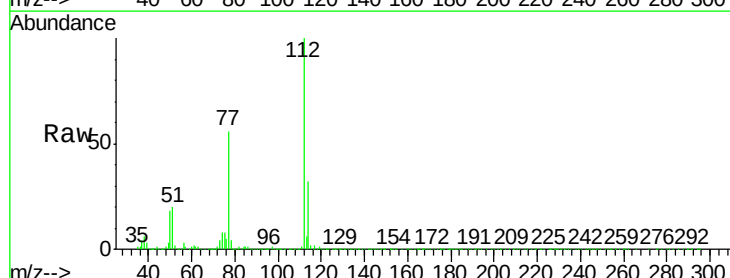
Manual Integrations  
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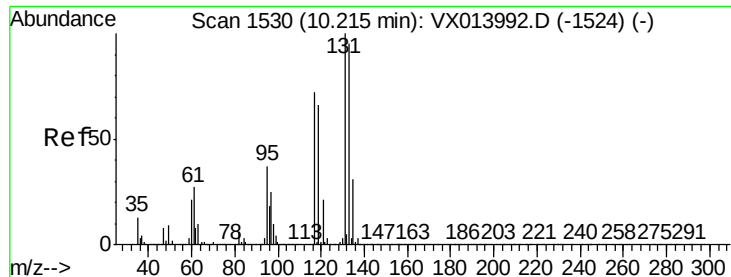
apatel  
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#64  
Chlorobenzene  
Concen: 19.881 ug/l  
RT: 10.14 min Scan# 1517  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Tgt Ion: 112 Resp: 298724  
Ion Ratio Lower Upper  
112 100  
114 31.8 24.4 36.6





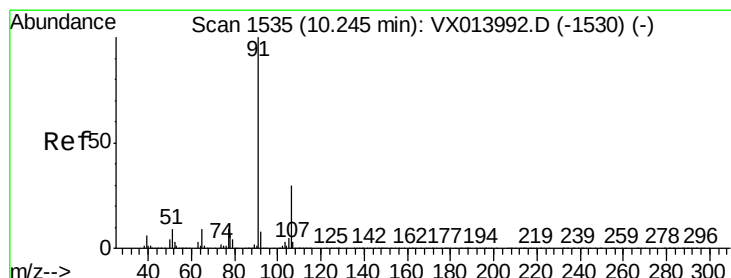
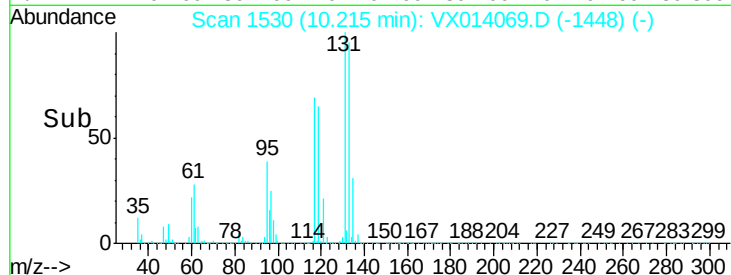
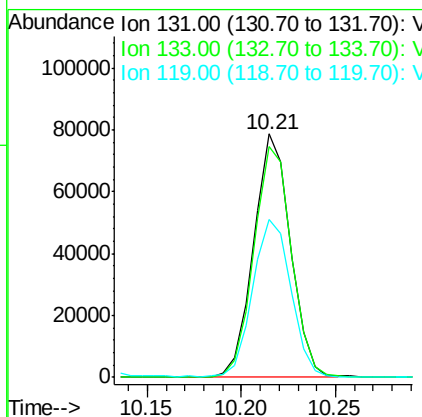
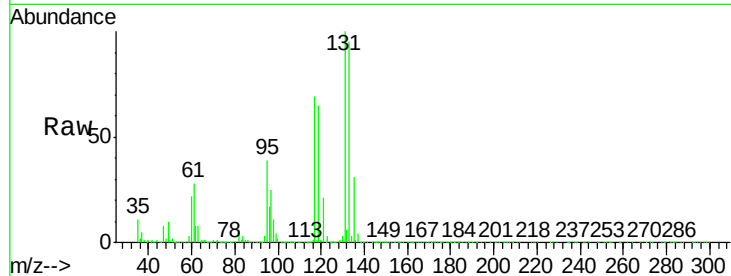
#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 19.196 ug/l  
 RT: 10.21 min Scan# 1530  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 131     | 100   |            |       |
| 133     | 96.8  | 0.0        | 189.8 |
| 119     | 67.0  | 0.0        | 132.2 |

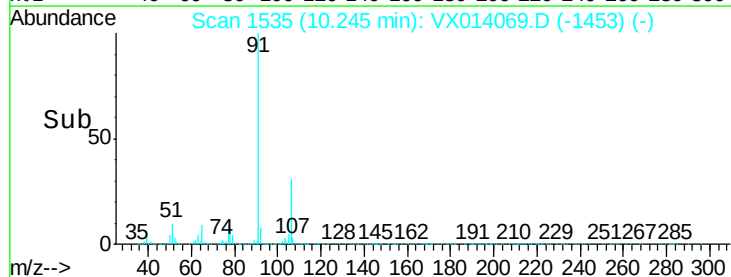
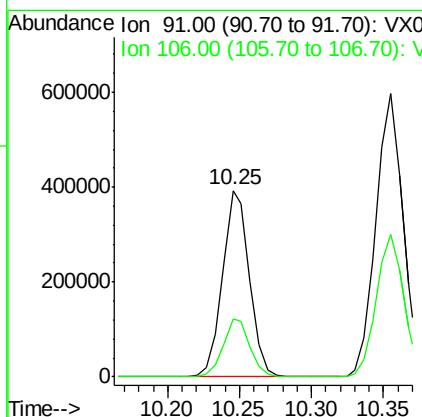
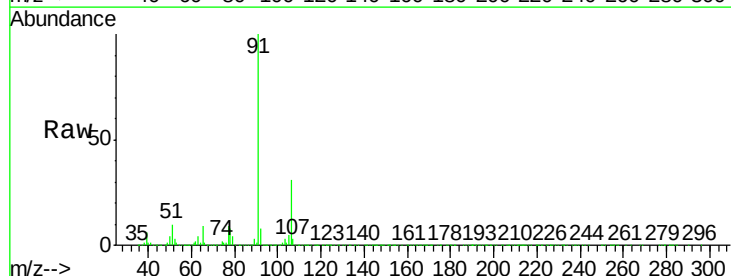
Manual Integrations  
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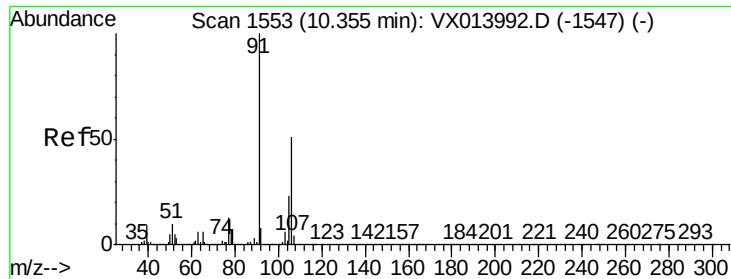
apatel  
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#66  
 Ethyl Benzene  
 Concen: 19.594 ug/l  
 RT: 10.25 min Scan# 1535  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 91      | 100   |            |       |
| 106     | 31.0  | 24.2       | 36.2  |





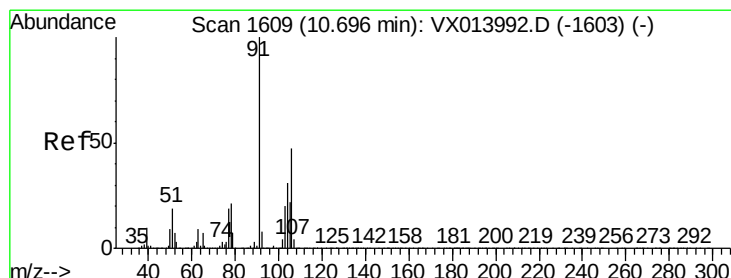
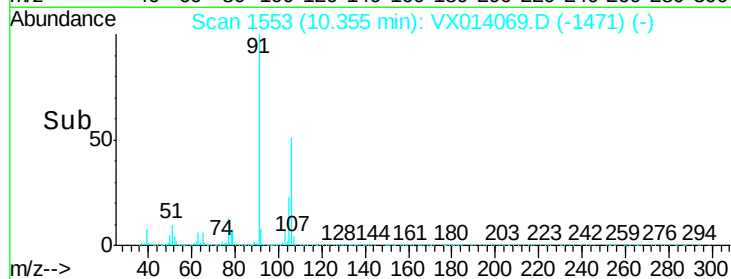
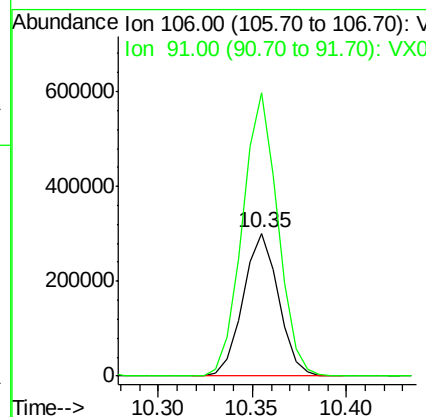
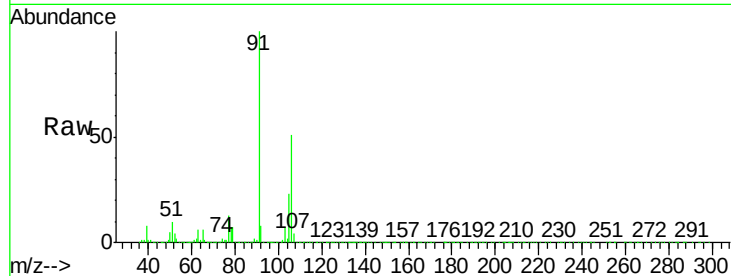
#67  
m/p-Xylenes  
Concen: 39.097 ug/l  
RT: 10.35 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 198.5 | 159.3 | 238.9 |

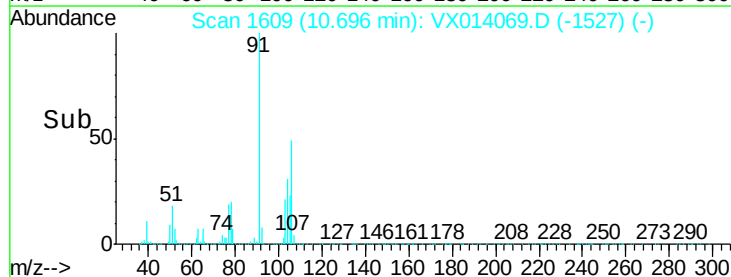
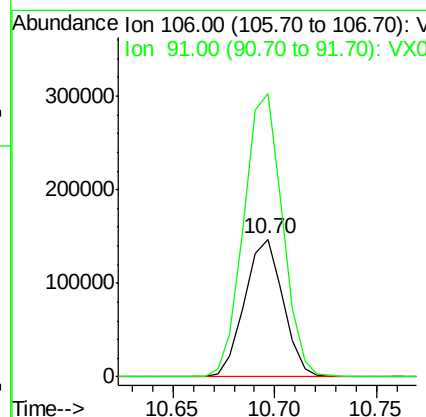
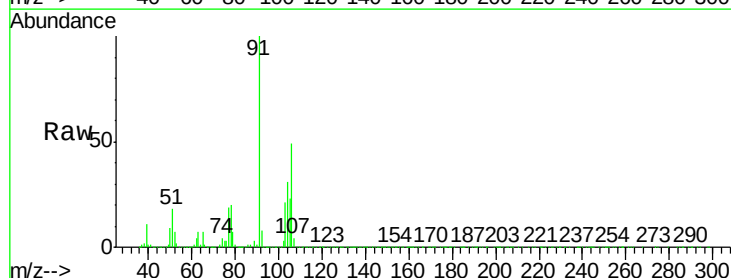
Manual Integrations  
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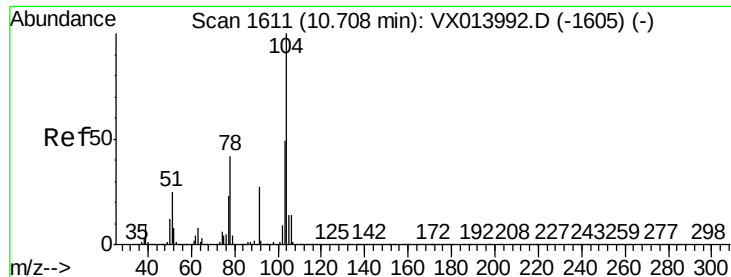
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#68  
o-Xylene  
Concen: 19.284 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 207.7 | 104.8 | 314.6 |





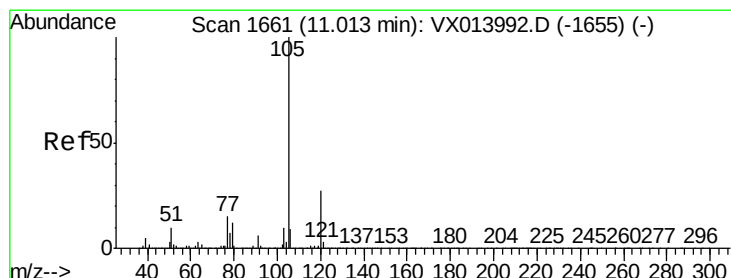
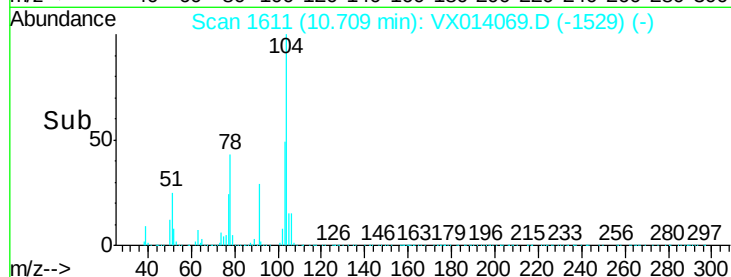
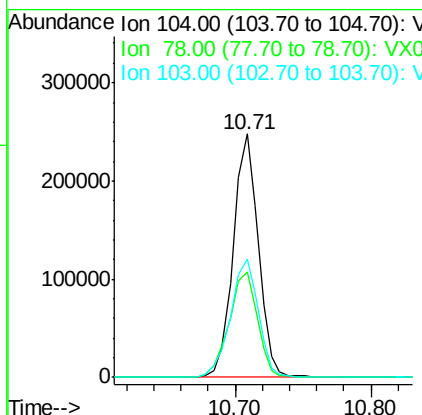
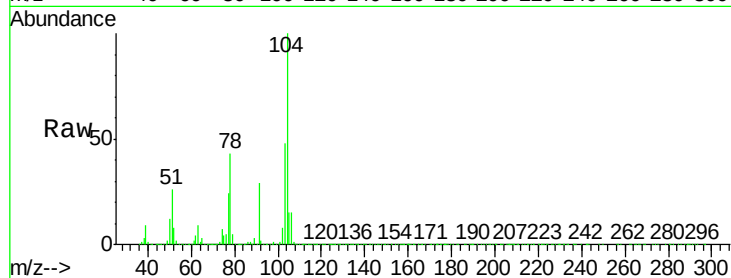
#69  
Stvrene  
Concen: 18.781 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 49.0  | 38.9  | 58.3  |
| 103     | 54.0  | 44.2  | 66.2  |

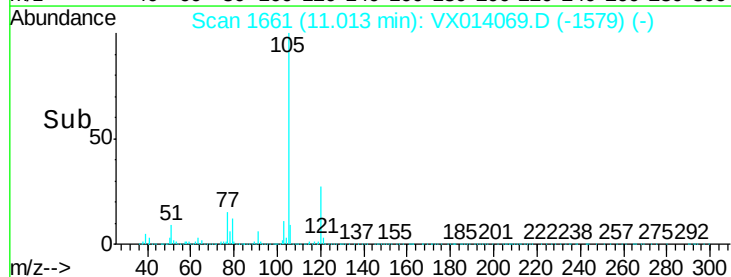
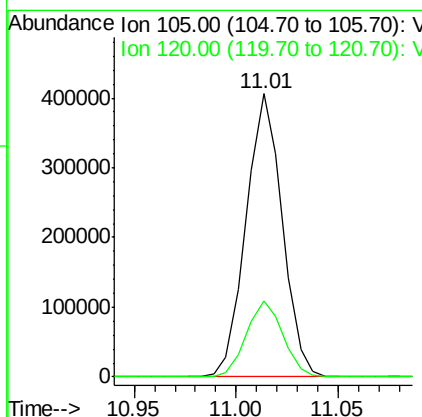
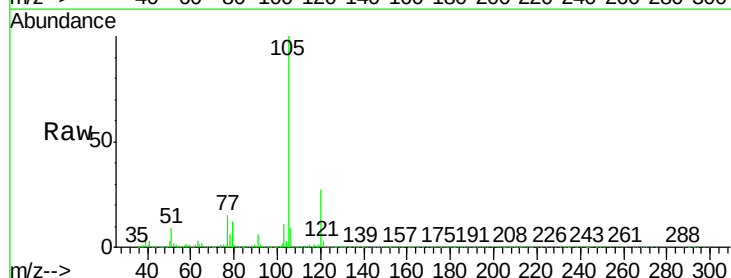
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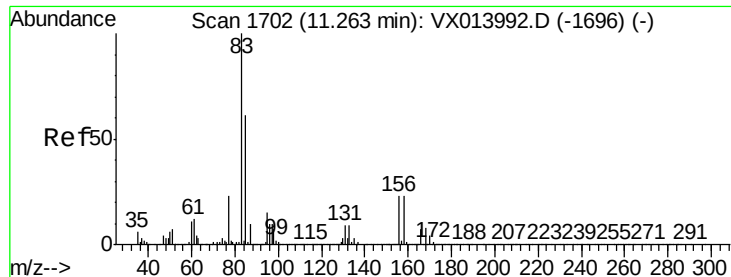


#70  
Isopropylbenzene  
Concen: 19.520 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.9  | 19.1  | 35.5  |







#71

1,1,2,2-Tetrachloroethane

Concen: 17.630 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

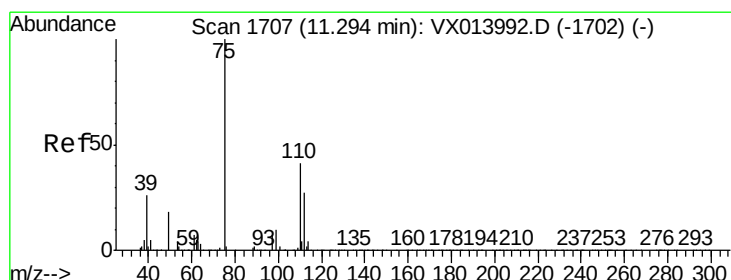
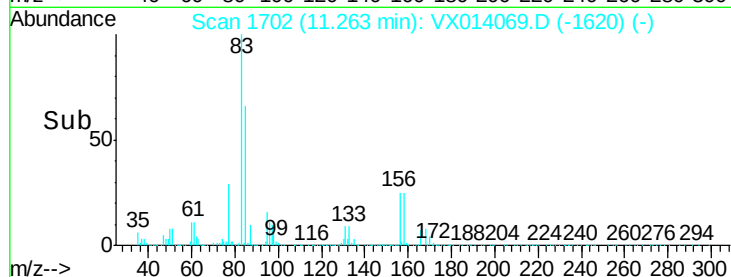
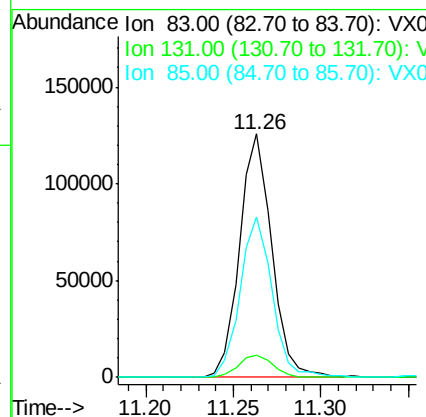
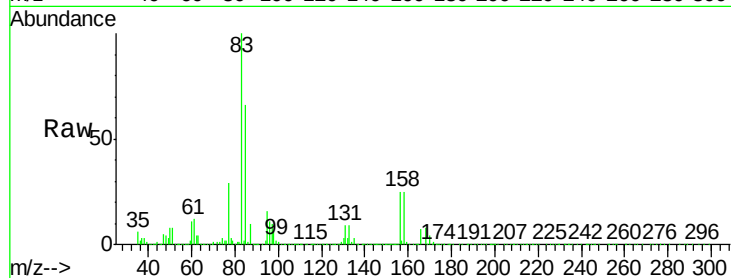
ClientSampleId :

VSTDCCC020

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 83   | Resp: | 160595 |
| Ion Ratio |      | Lower | Upper  |
| 83        | 100  |       |        |
| 131       | 9.8  | 4.9   | 14.7   |
| 85        | 65.7 | 31.6  | 94.7   |

Manual Integrations  
APPROVED

apatel  
12/18/2019 11:04:42 AM



#72

1,2,3-Trichloropropane

Concen: 20.515 ug/l m

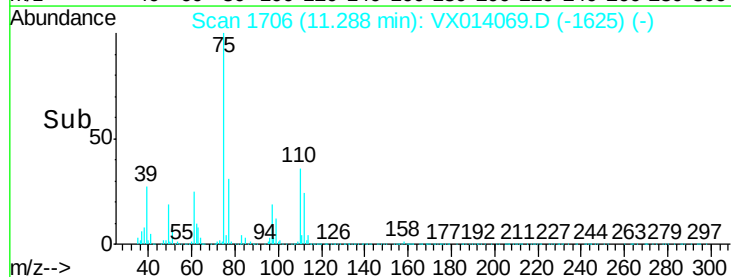
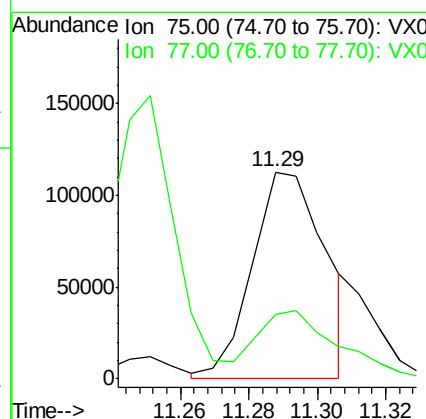
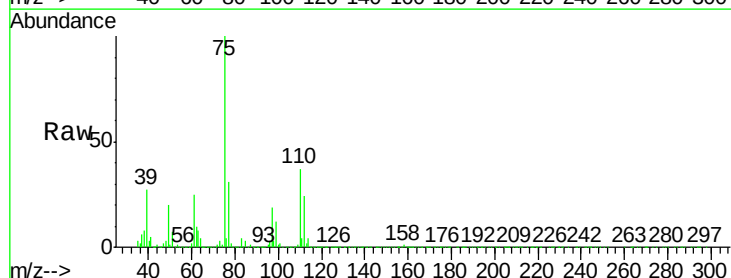
RT: 11.29 min Scan# 1706

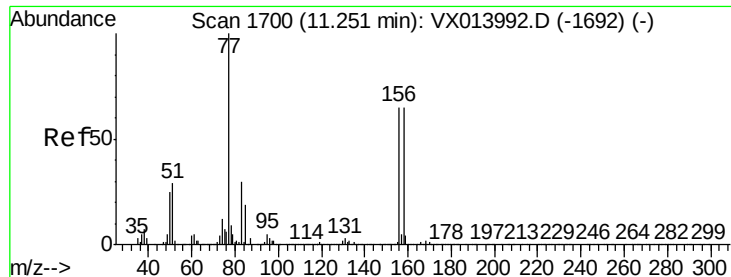
Delta R.T. -0.01 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 75   | Resp: | 166339 |
| Ion Ratio |      | Lower | Upper  |
| 75        | 100  |       |        |
| 77        | 34.2 | 0.0   | 68.4   |





#73

Bromobenzene

Concen: 18.945 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

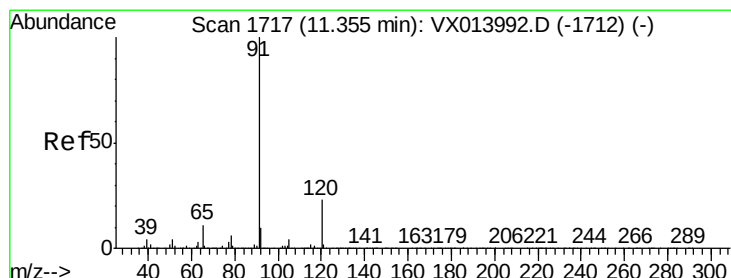
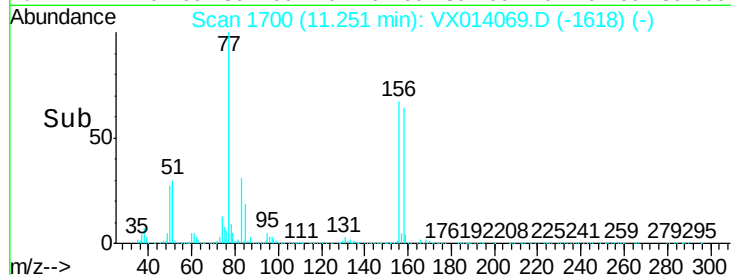
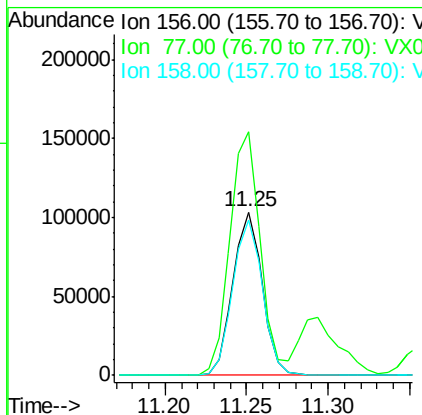
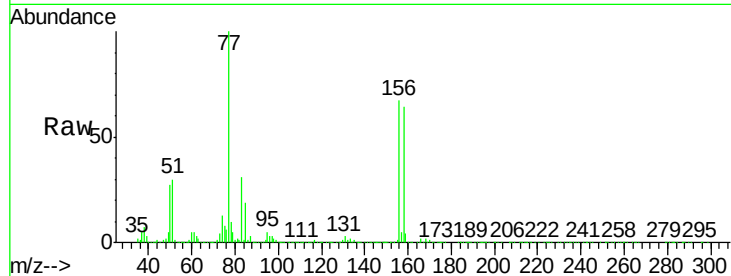
ClientSampleId :

VSTDCCC020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 129900 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 154.6 | 0.0   | 304.6  |
| 158       | 96.1  | 0.0   | 195.2  |

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#74

n-propylbenzene

Concen: 19.130 ug/l

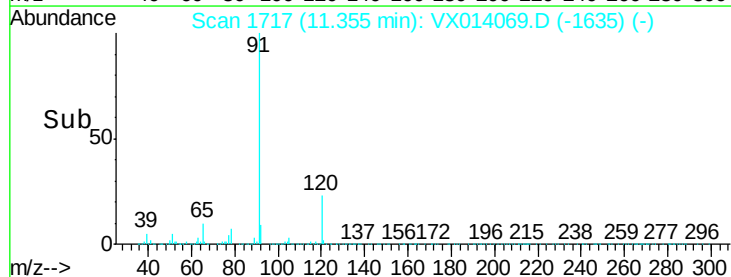
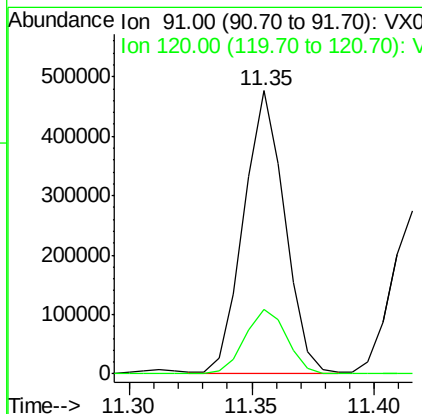
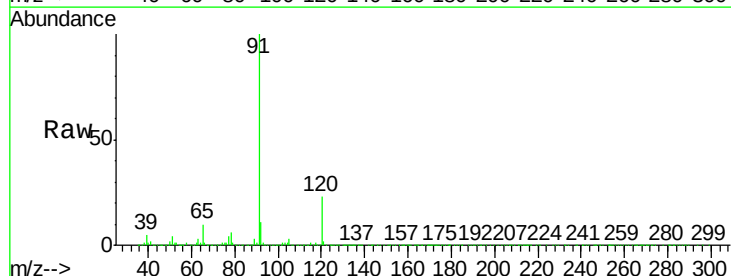
RT: 11.35 min Scan# 1717

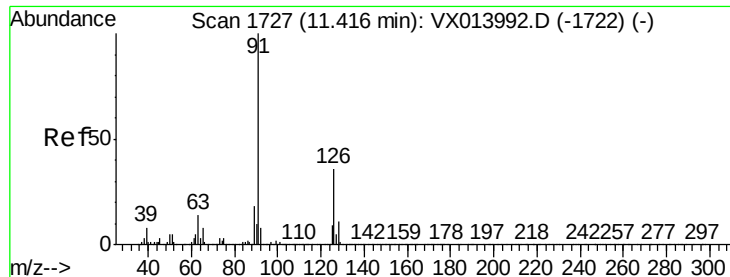
Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 557315 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 23.2  | 0.0   | 44.8   |





#75

2-Chlorotoluene

Concen: 19.241 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion: 91 Resp: 338695

Ion Ratio Lower Upper

91 100

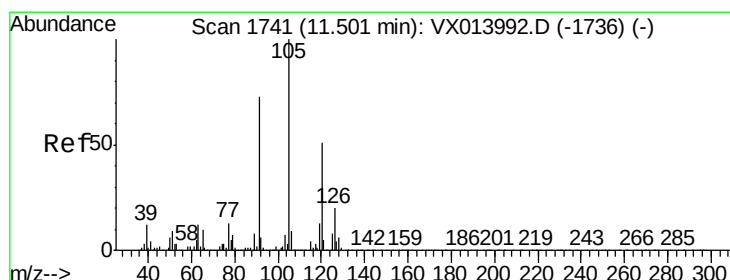
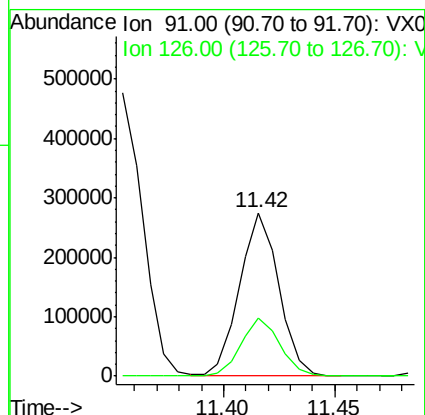
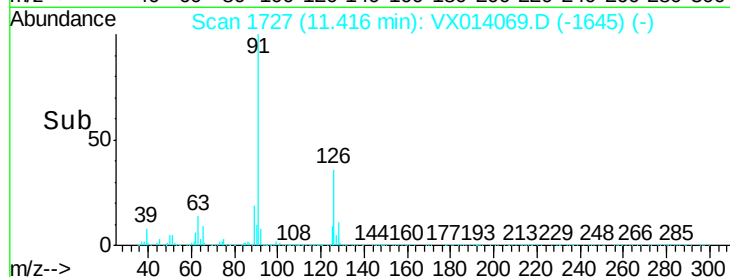
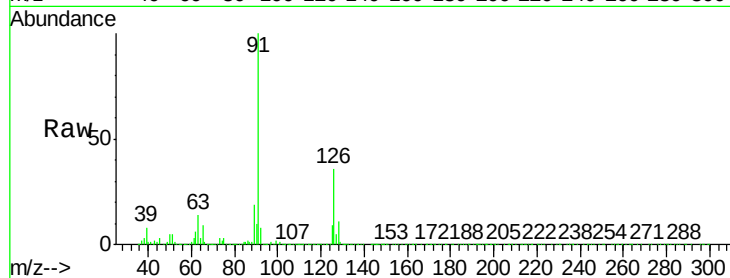
126 35.1 0.0 70.8

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#76

1,3,5-Trimethylbenzene

Concen: 18.833 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014069.D

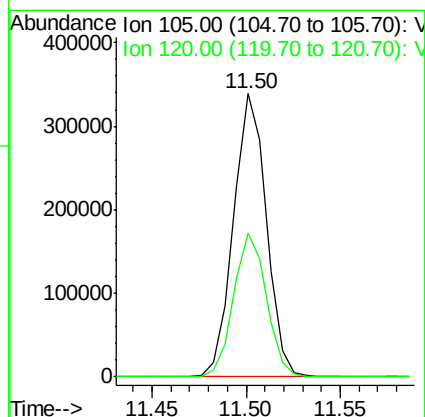
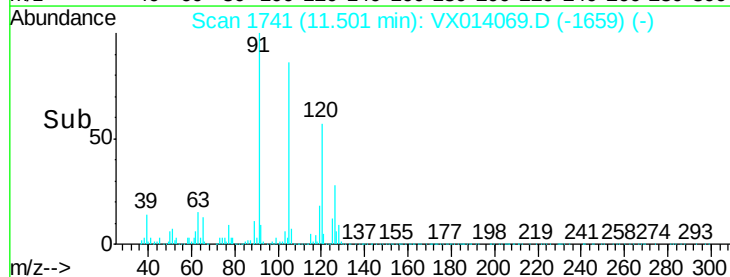
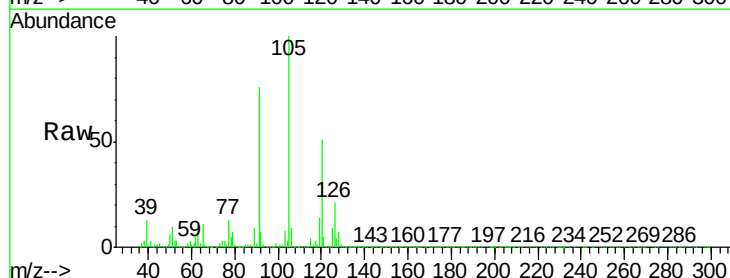
Acq: 17 Dec 2019 22:48

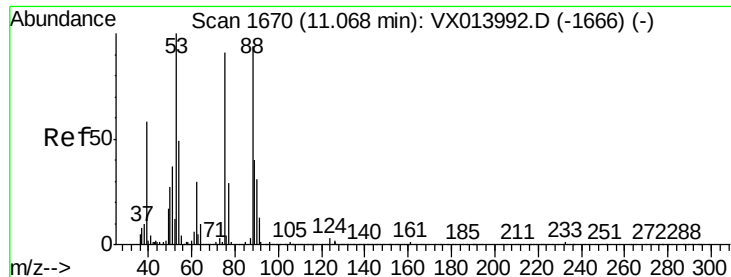
Tgt Ion: 105 Resp: 410350

Ion Ratio Lower Upper

105 100

120 50.6 0.0 100.6





#77

t-1,4-Dichloro-2-butene

Concen: 18.968 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

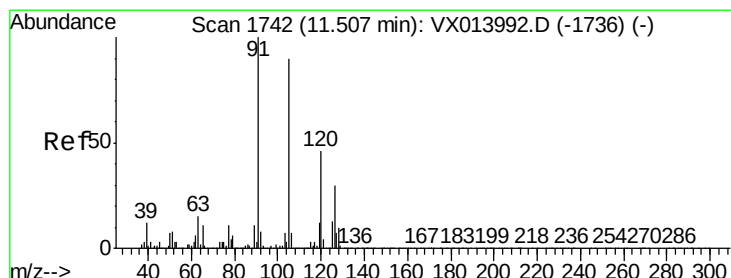
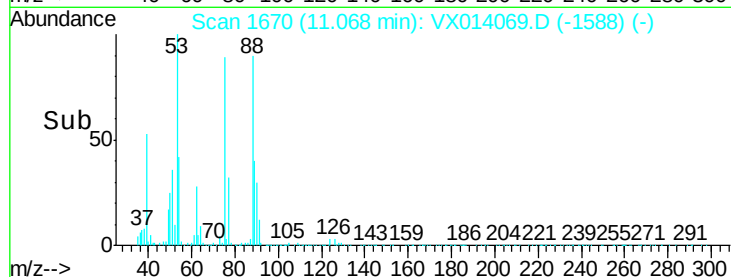
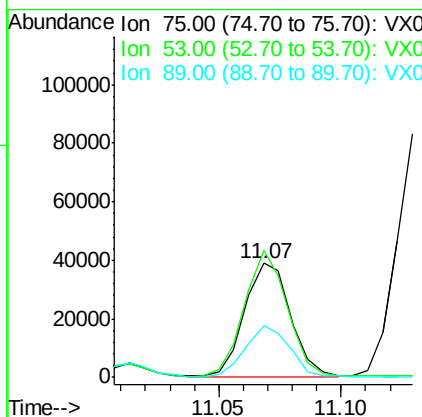
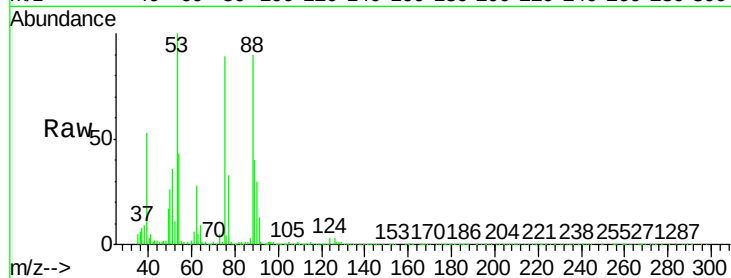
ClientSampleId :

VSTDCCC020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 75    | Resp: | 50786 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 112.4 | 54.4  | 163.1 |
| 89        | 45.4  | 21.9  | 65.5  |

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#78

4-Chlorotoluene

Concen: 18.871 ug/l

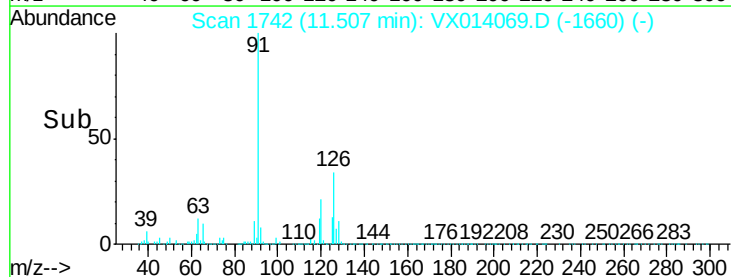
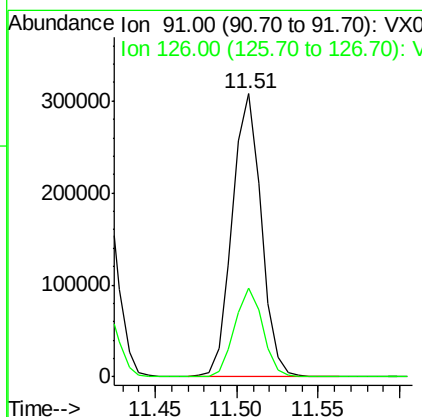
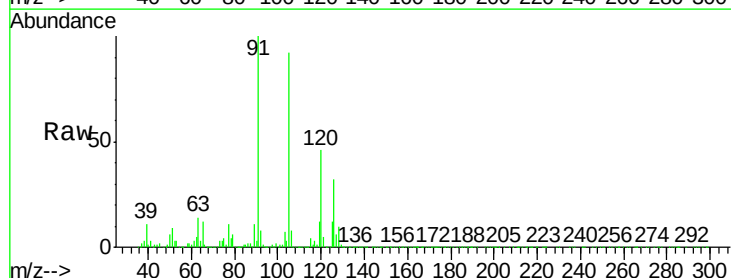
RT: 11.51 min Scan# 1742

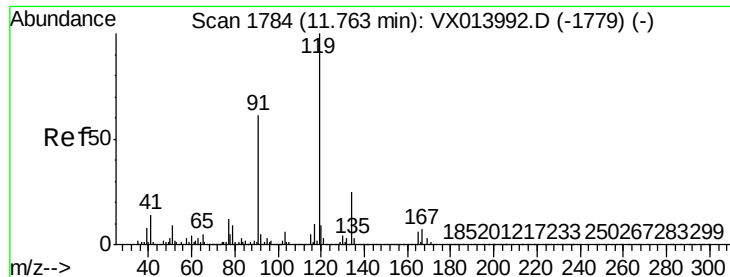
Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 379584 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 30.5  | 0.0   | 59.6   |





#79

tert-butylbenzene

Concen: 16.878 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

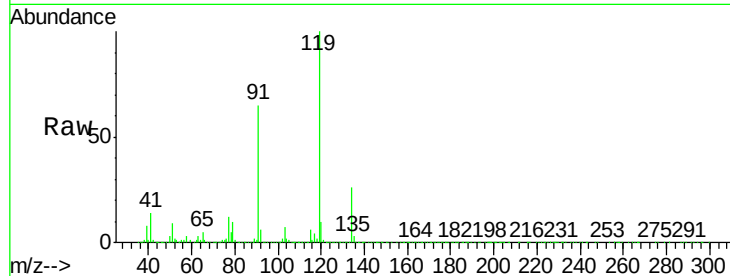
ClientSampleId :

VSTDCCC020

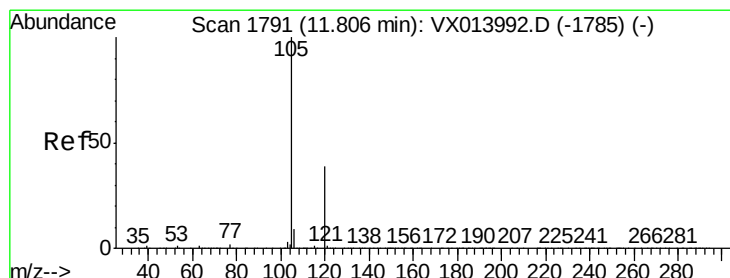
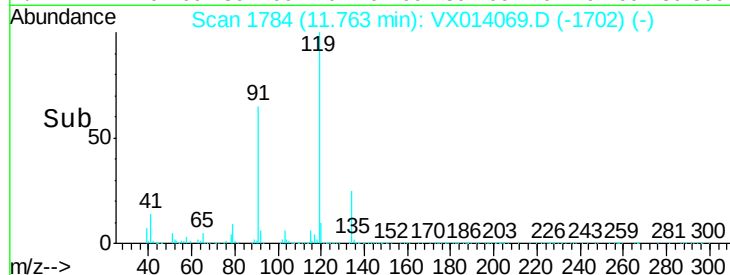
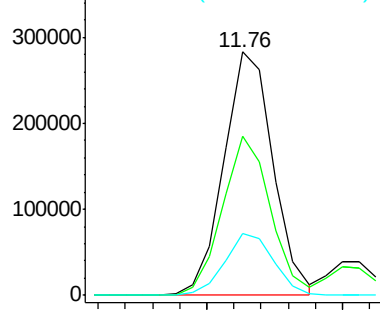
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 354484 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 91        | 63.7  | 0.0   | 112.6  |
| 134       | 25.3  | 0.0   | 49.8   |

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Abundance Ion 119.00 (118.70 to 119.70): V



#80

1,2,4-Trimethylbenzene

Concen: 18.742 ug/l

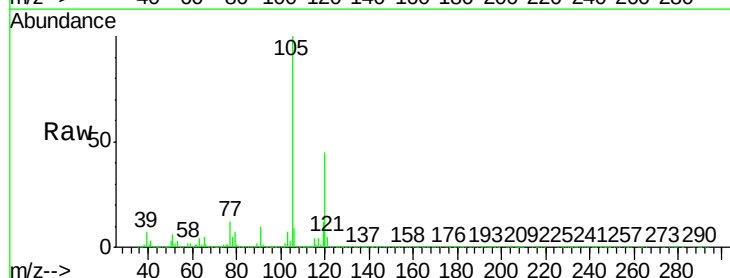
RT: 11.80 min Scan# 1790

Delta R.T. -0.01 min

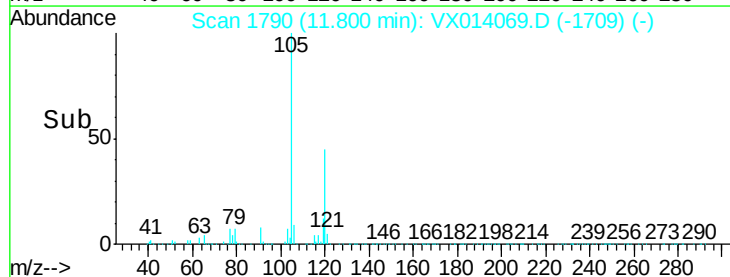
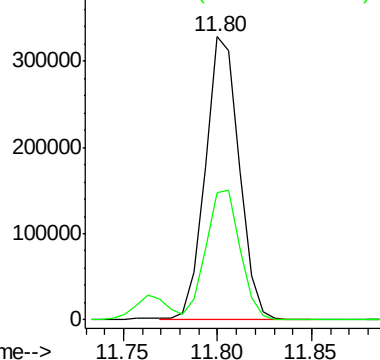
Lab File: VX014069.D

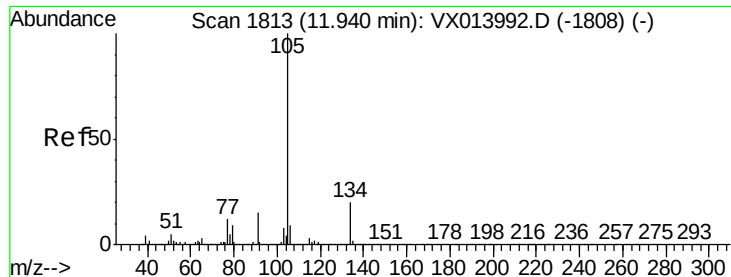
Acq: 17 Dec 2019 22:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 408329 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 46.4  | 0.0   | 92.0   |



Abundance Ion 105.00 (104.70 to 105.70): V





#81

sec-Butylbenzene

Concen: 18.957 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tot Ion:105 Resp: 473557

Ion Ratio Lower Upper

105 100

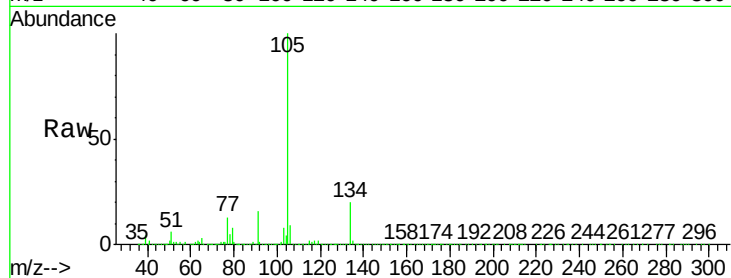
134 20.2 0.0 40.2

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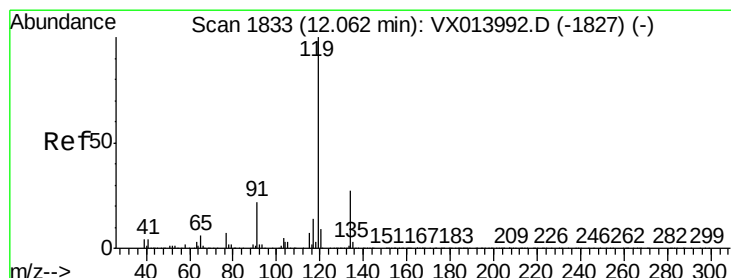
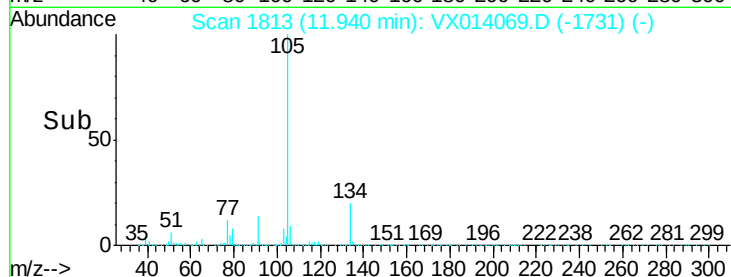
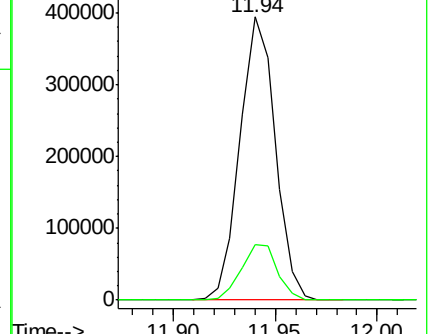
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 18.866 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX014069.D

Acq: 17 Dec 2019 22:48

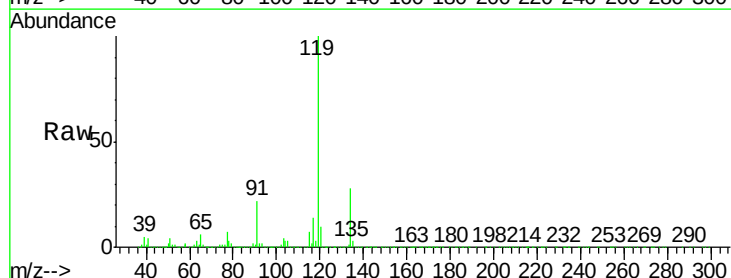
Tgt Ion:119 Resp: 425312

Ion Ratio Lower Upper

119 100

134 26.9 0.0 53.8

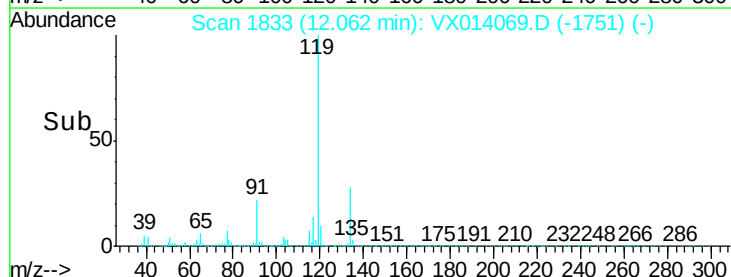
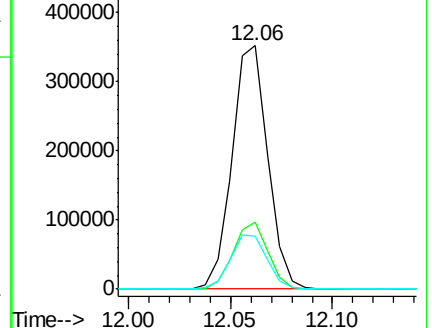
91 22.7 0.0 45.0

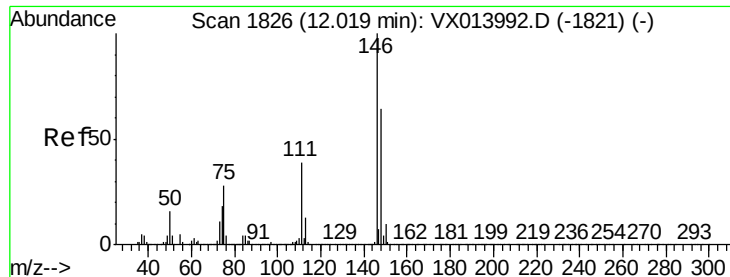


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





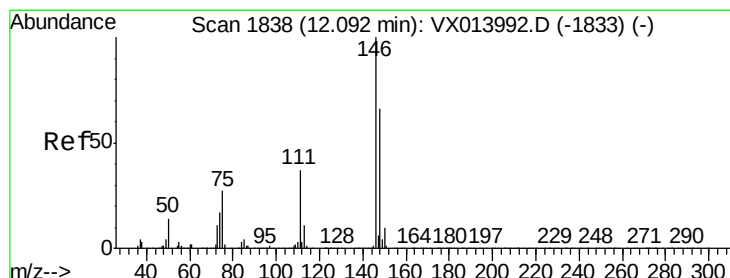
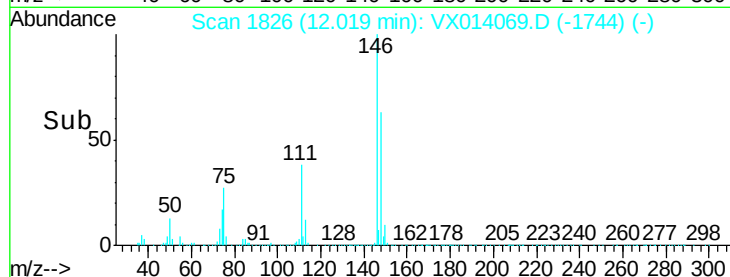
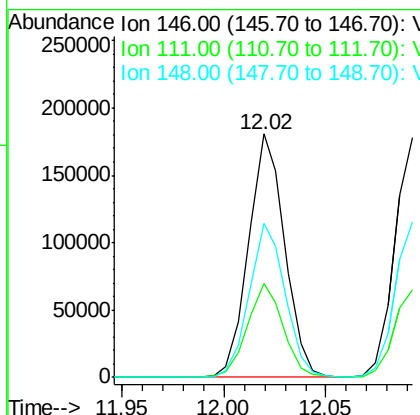
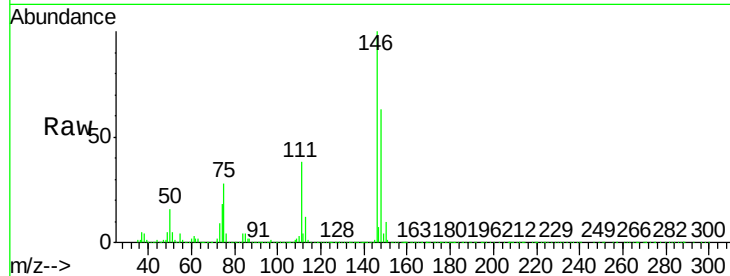
#83  
 1,3-Dichlorobenzene  
 Concen: 18.619 ug/l  
 RT: 12.02 min Scan# 1826  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.9  | 19.3  | 57.9  |
| 148     | 63.1  | 32.2  | 96.6  |

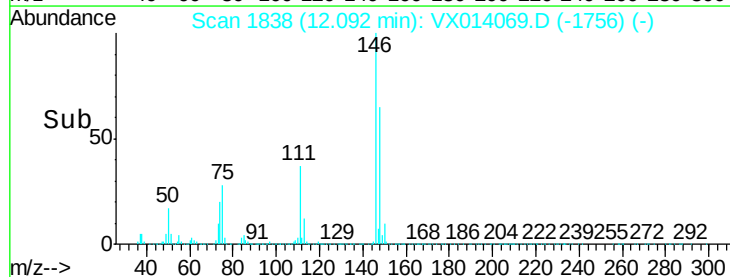
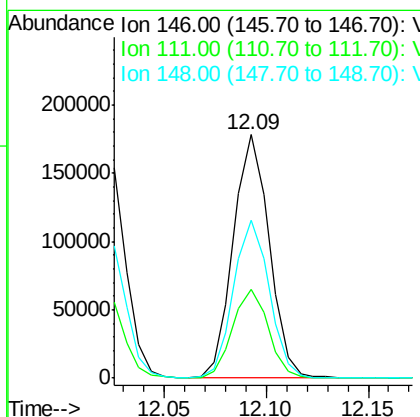
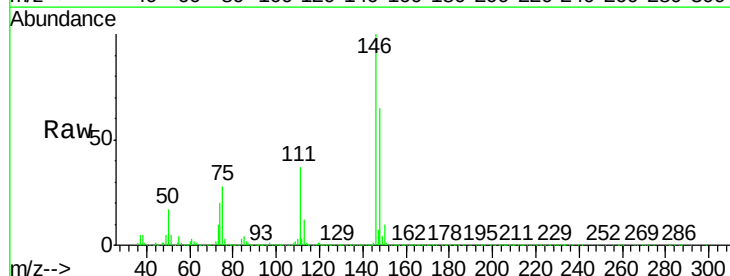
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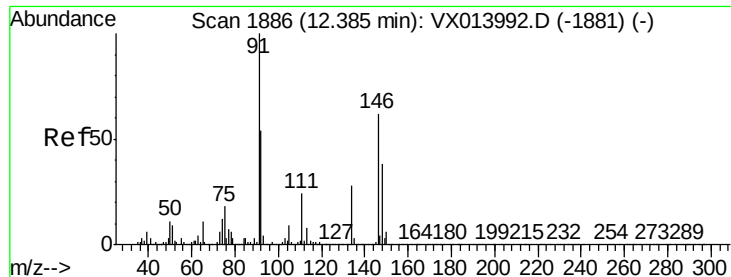
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#84  
 1,4-Dichlorobenzene  
 Concen: 18.241 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.9  | 18.4  | 55.4  |
| 148     | 64.7  | 32.0  | 96.0  |





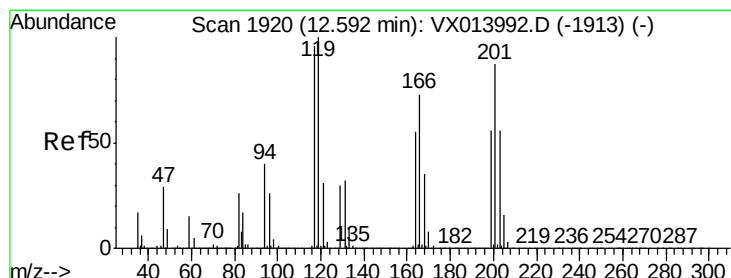
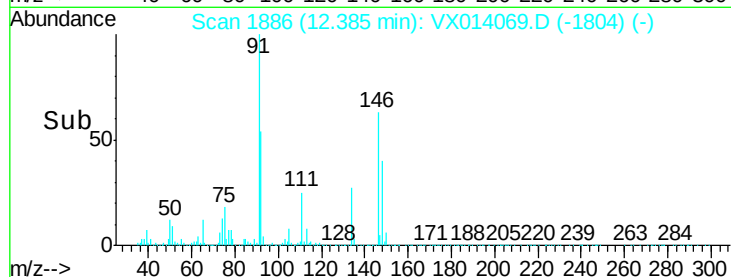
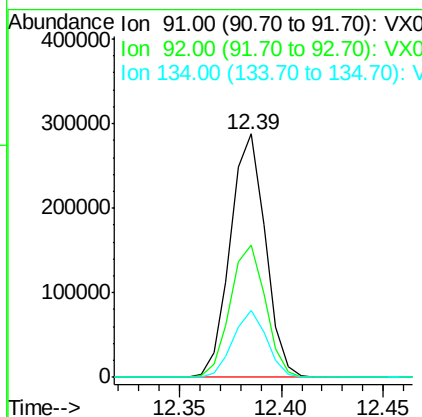
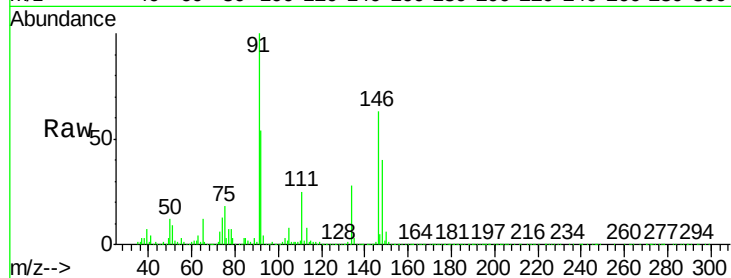
#85  
n-Butylbenzene  
Concen: 18.032 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 341781 |       |       |
| 92      | 54.9  | 0.0    | 109.0 |       |
| 134     | 26.2  | 0.0    | 54.0  |       |

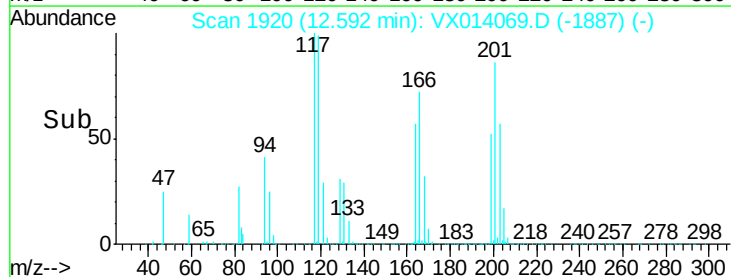
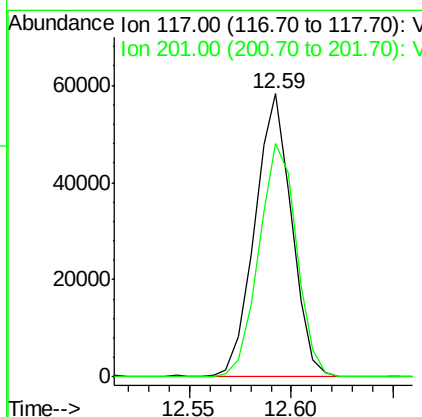
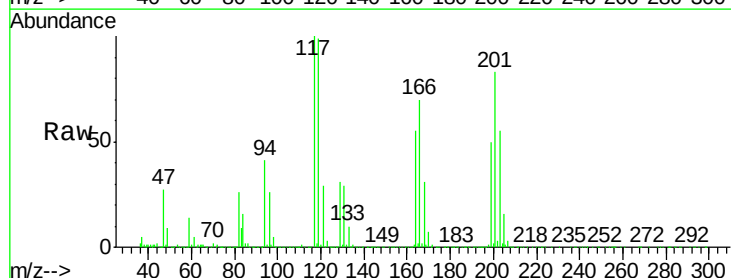
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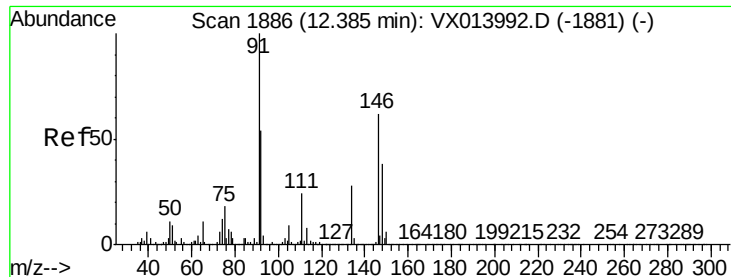


#86  
Hexachloroethane  
Concen: 17.780 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   | 72715 |       |       |
| 201     | 85.0  | 44.8  | 134.3 |       |







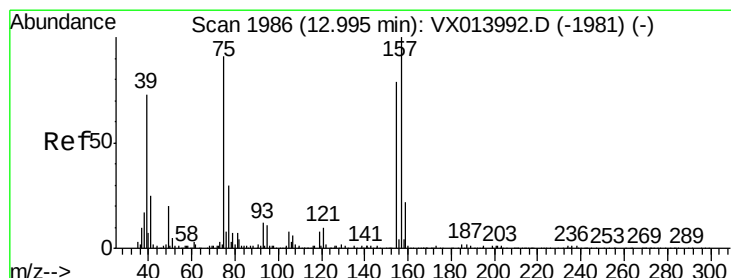
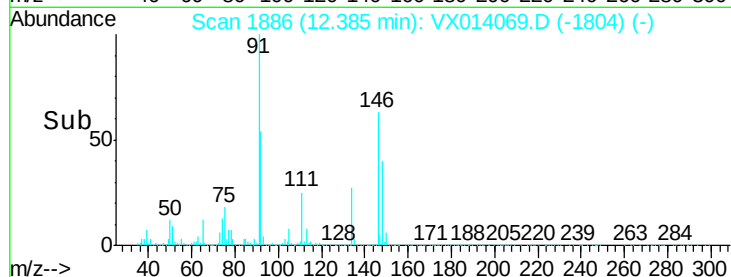
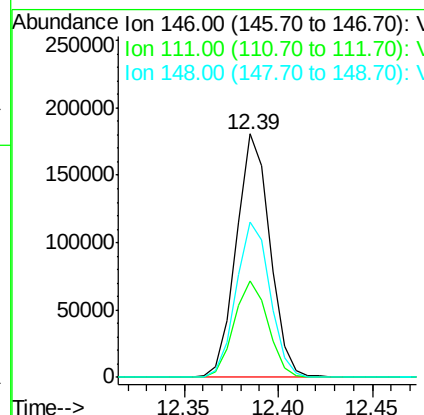
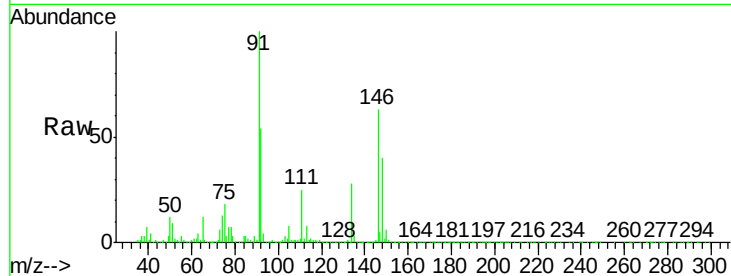
#87  
 1,2-Dichlorobenzene  
 Concen: 18.439 ug/l  
 RT: 12.39 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.8  | 20.1  | 60.2  |
| 148     | 64.4  | 32.0  | 96.2  |

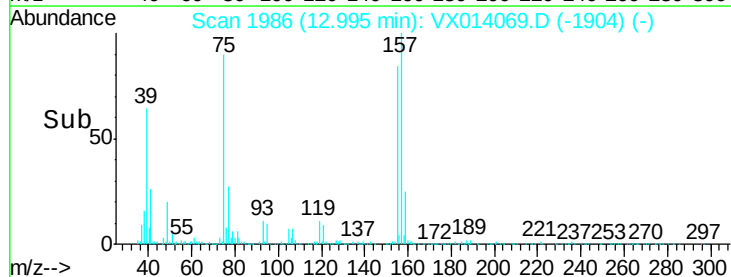
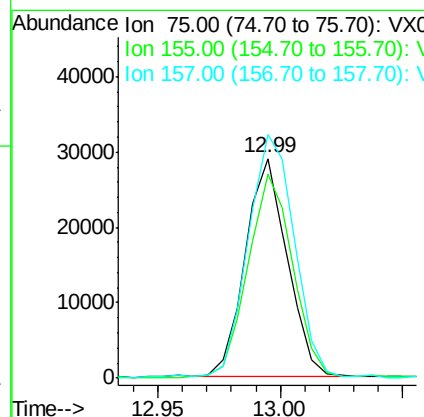
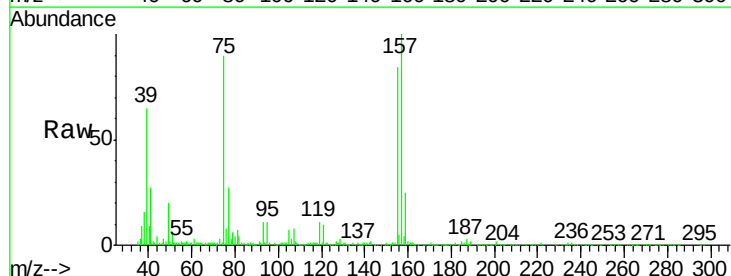
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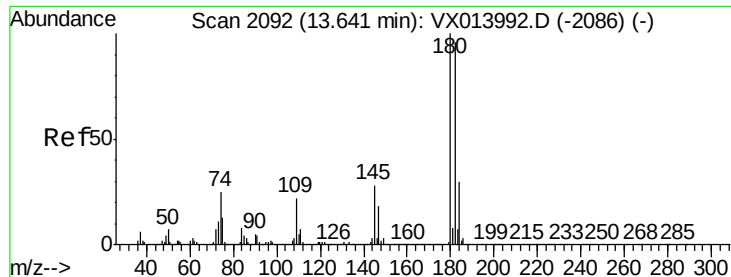
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#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.179 ug/l  
 RT: 12.99 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 100.0 | 73.8  | 110.6 |
| 157     | 123.0 | 95.0  | 142.4 |





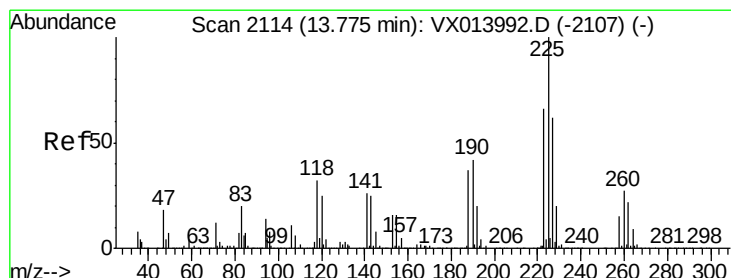
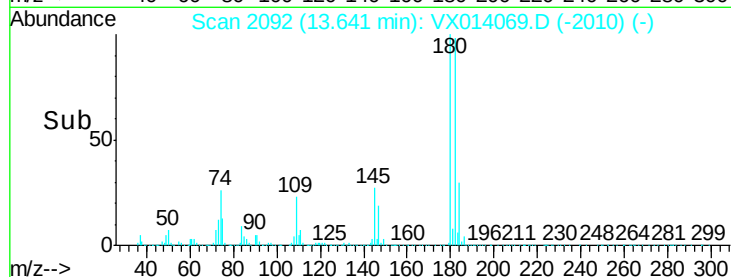
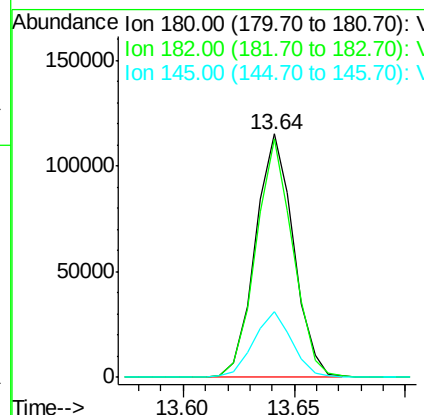
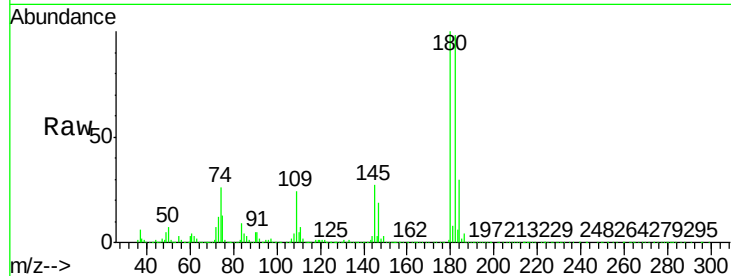
#89  
 1,2,4-Trichlorobenzene  
 Concen: 17.676 ug/l  
 RT: 13.64 min Scan# 2092  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 137138 |       |       |
| 182     | 95.5  | 76.4   | 114.6 |       |
| 145     | 27.1  | 21.9   | 32.9  |       |

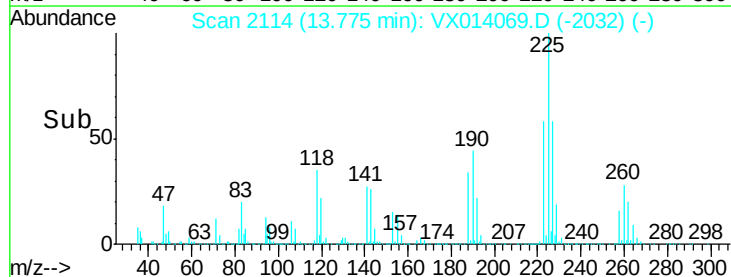
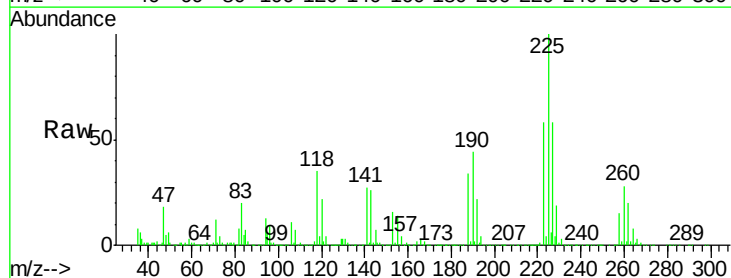
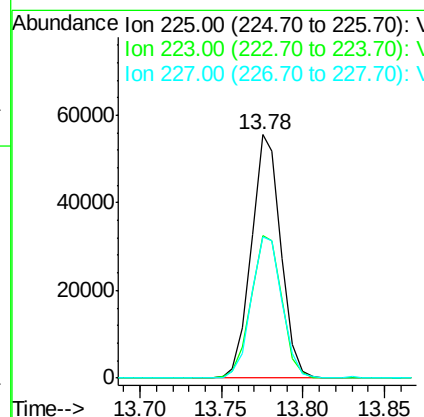
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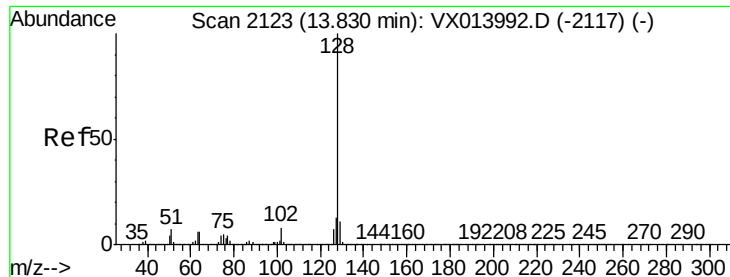
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#90  
 Hexachlorobutadiene  
 Concen: 19.014 ug/l  
 RT: 13.78 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VX014069.D  
 Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 70120 |       |       |
| 223     | 60.7  | 0.0   | 127.4 |       |
| 227     | 60.3  | 0.0   | 122.8 |       |





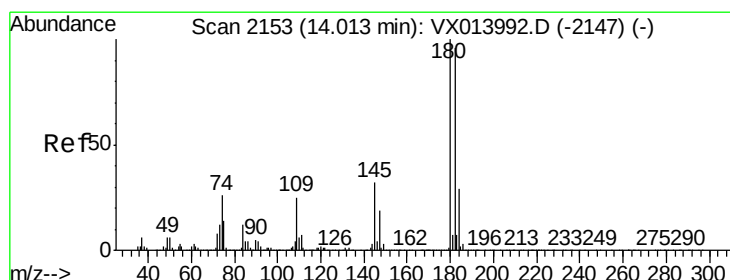
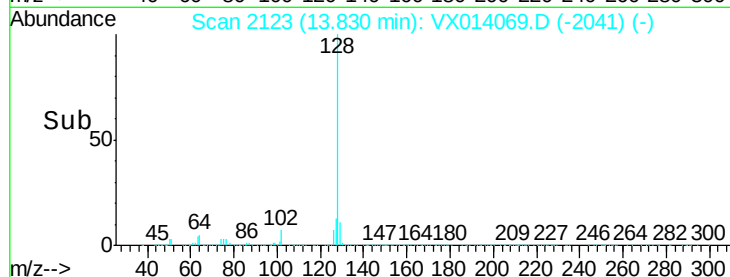
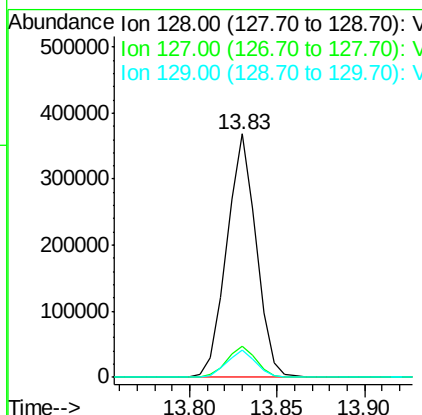
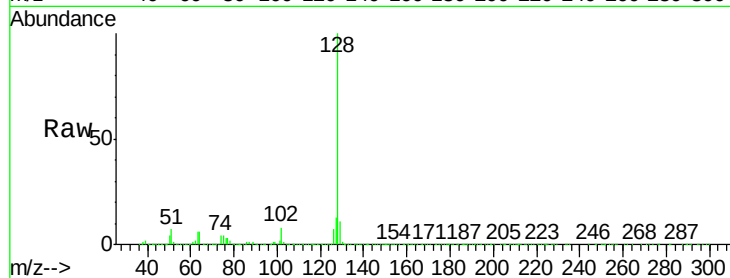
#91  
Naphthalene  
Concen: 18.421 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.1  | 10.4  | 15.6  |
| 129     | 11.2  | 8.9   | 13.3  |

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#92  
1,2,3-Trichlorobenzene  
Concen: 18.386 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. 0.00 min  
Lab File: VX014069.D  
Acq: 17 Dec 2019 22:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 0.0   | 192.8 |
| 145     | 29.8  | 0.0   | 60.0  |

