

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
 Data File : VX014116.D  
 Acq On : 19 Dec 2019 13:04  
 Operator : JC/SP  
 Sample : VX1219WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 20 00:52:23 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  | 90141    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 501452   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 452334   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 191463   | 29.66    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 98.87%  |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 218981   | 29.98    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 99.93%  |
| 63) Toluene-d8            | 8.71   | 98    | 616089   | 30.47    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.57% |

## Target Compounds

|                               |      |     |        |         | Ovalue    |
|-------------------------------|------|-----|--------|---------|-----------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 88118  | 19.352  | ug/l 98   |
| 3) Chloromethane              | 1.32 | 50  | 124873 | 19.458  | ug/l 96   |
| 4) Vinyl Chloride             | 1.40 | 62  | 130204 | 19.791  | ug/l 98   |
| 5) Bromomethane               | 1.63 | 94  | 82481  | 17.150  | ug/l 99   |
| 6) Chloroethane               | 1.72 | 64  | 87061  | 21.424  | ug/l 98   |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 166550 | 20.345  | ug/l 99   |
| 8) Diethyl Ether              | 2.18 | 74  | 74238  | 19.729  | ug/l 98   |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 100134 | 20.509  | ug/l 98   |
| 10) 1,1-Dichloroethene        | 2.36 | 96  | 96607  | 19.139  | ug/l 91   |
| 11) Methyl Iodide             | 2.50 | 142 | 128467 | 19.770  | ug/l 99   |
| 12) Methyl Acetate            | 2.76 | 43  | 150599 | 19.272  | ug/l 99   |
| 13) Acrolein                  | 2.28 | 56  | 99241  | 104.709 | ug/l 99   |
| 14) Acrylonitrile             | 3.12 | 53  | 304506 | 99.680  | ug/l 98   |
| 15) Acetone                   | 2.43 | 58  | 95533  | 106.456 | ug/l 92   |
| 16) Carbon Disulfide          | 2.56 | 76  | 267303 | 19.548  | ug/l 99   |
| 17) Allyl chloride            | 2.72 | 41  | 179681 | 19.810  | ug/l 98   |
| 18) Methylene Chloride        | 2.84 | 84  | 118333 | 19.132  | ug/l 95   |
| 19) trans-1,2-Dichloroethene  | 3.16 | 96  | 107714 | 19.487  | ug/l 95   |
| 20) Diisopropyl ether         | 3.84 | 45  | 368385 | 19.793  | ug/l 90   |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 196564 | 19.460  | ug/l 100  |
| 22) cis-1,2-Dichloroethene    | 4.59 | 96  | 124286 | 19.396  | ug/l 99   |
| 23) tert-Butyl Alcohol        | 3.02 | 59  | 122258 | 102.035 | ug/l 100  |
| 24) Methyl tert-Butyl Ether   | 3.18 | 73  | 330512 | 19.384  | ug/l 99   |
| 25) Chloroform                | 5.20 | 83  | 188079 | 19.530  | ug/l 99   |
| 26) Cyclohexane               | 5.56 | 56  | 178233 | 19.788  | ug/l # 97 |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 143521 | 19.814  | ug/l 99   |
| 30) 2-Butanone                | 4.65 | 43  | 438810 | 102.781 | ug/l 100  |
| 31) 2,2-Dichloropropane       | 4.58 | 77  | 153263 | 22.874  | ug/l 98   |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 157981 | 19.719  | ug/l 99   |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 131718 | 19.340  | ug/l 97   |
| 34) Benzene                   | 6.13 | 78  | 445938 | 19.744  | ug/l 98   |
| 35) Methacrylonitrile         | 5.03 | 41  | 88307  | 19.232  | ug/l 95   |
| 36) 1,2-Dichloroethane        | 6.18 | 62  | 150444 | 19.176  | ug/l 100  |
| 37) Trichloroethene           | 7.20 | 130 | 118683 | 19.312  | ug/l 93   |
| 38) Methylcyclohexane         | 7.45 | 83  | 181748 | 21.035  | ug/l 98   |
| 40) Dibromomethane            | 7.65 | 93  | 74113  | 19.777  | ug/l 99   |
| 41) Bromodichloromethane      | 7.89 | 83  | 140956 | 19.426  | ug/l 97   |

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 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) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Vinyl Acetate              | 3.80  | 43   | 1555652  | 103.205 | ug/l  | 99       |
| 43) Ethyl Acetate              | 4.82  | 43   | 158775   | 19.381  | ug/l  | 98       |
| 44) Isopropyl Acetate          | 6.43  | 43   | 267136   | 19.469  | ug/l  | 100      |
| 45) 1,4-Dioxane                | 7.73  | 88   | 52466    | 408.329 | ug/l  | 98       |
| 46) Methyl methacrylate        | 7.76  | 41   | 126209   | 18.937  | ug/l  | 96       |
| 47) n-amyl Acetate             | 10.89 | 43   | 221466   | 18.153  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene      | 9.03  | 75   | 153742   | 19.413  | ug/l  | 95       |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 174170   | 19.556  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 112488   | 19.450  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 9.17  | 69   | 173254   | 18.834  | ug/l  | 96       |
| 52) 1,3-Dichloropropane        | 9.36  | 76   | 190298   | 19.367  | ug/l  | 97       |
| 53) Dibromochloromethane       | 9.57  | 129  | 111410   | 19.265  | ug/l  | 99       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 116622   | 19.585  | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether  | 8.30  | 63   | 413137   | 101.880 | ug/l  | 100      |
| 56) Bromoform                  | 10.85 | 173  | 80217    | 17.788  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.63  | 43   | 831409   | 98.236  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 640512   | 99.725  | ug/l  | 100      |
| 61) Tetrachloroethene          | 9.33  | 164  | 122211   | 20.423  | ug/l  | 95       |
| 62) Toluene                    | 8.78  | 91   | 478380   | 19.885  | ug/l  | 100      |
| 64) Chlorobenzene              | 10.13 | 112  | 295816   | 19.627  | ug/l  | 96       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 107778   | 19.312  | ug/l  | 99       |
| 66) Ethyl Benzene              | 10.25 | 91   | 522316   | 19.839  | ug/l  | 98       |
| 67) m/p-Xylenes                | 10.36 | 106  | 398718   | 39.617  | ug/l  | 99       |
| 68) o-Xylene                   | 10.70 | 106  | 188612   | 18.917  | ug/l  | 98       |
| 69) Styrene                    | 10.71 | 104  | 319227   | 18.828  | ug/l  | 99       |
| 70) Isopropylbenzene           | 11.01 | 105  | 508475   | 19.735  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 172277   | 18.855  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 190157   | 23.381  | ug/l  | 94       |
| 73) Bromobenzene               | 11.25 | 156  | 130436   | 18.965  | ug/l  | 100      |
| 74) n-propylbenzene            | 11.35 | 91   | 582558   | 19.935  | ug/l  | 98       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 343094   | 19.431  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 420465   | 19.238  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 52788    | 19.655  | ug/l  | 94       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 387175   | 19.189  | ug/l  | 99       |
| 79) tert-butylbenzene          | 11.76 | 119  | 404788   | 19.214  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 415973   | 19.034  | ug/l  | 99       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 488734   | 19.504  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 443542   | 19.614  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 230480   | 19.226  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 227379   | 19.048  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.39 | 91   | 373654   | 19.653  | ug/l  | 98       |
| 86) Hexachloroethane           | 12.59 | 117  | 74559    | 18.175  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 231499   | 19.012  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 33536    | 18.415  | ug/l  | 96       |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 142333   | 18.289  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 71673    | 19.376  | ug/l  | 97       |
| 91) Naphthalene                | 13.83 | 128  | 431929   | 18.466  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 144142   | 18.261  | ug/l  | 99       |

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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

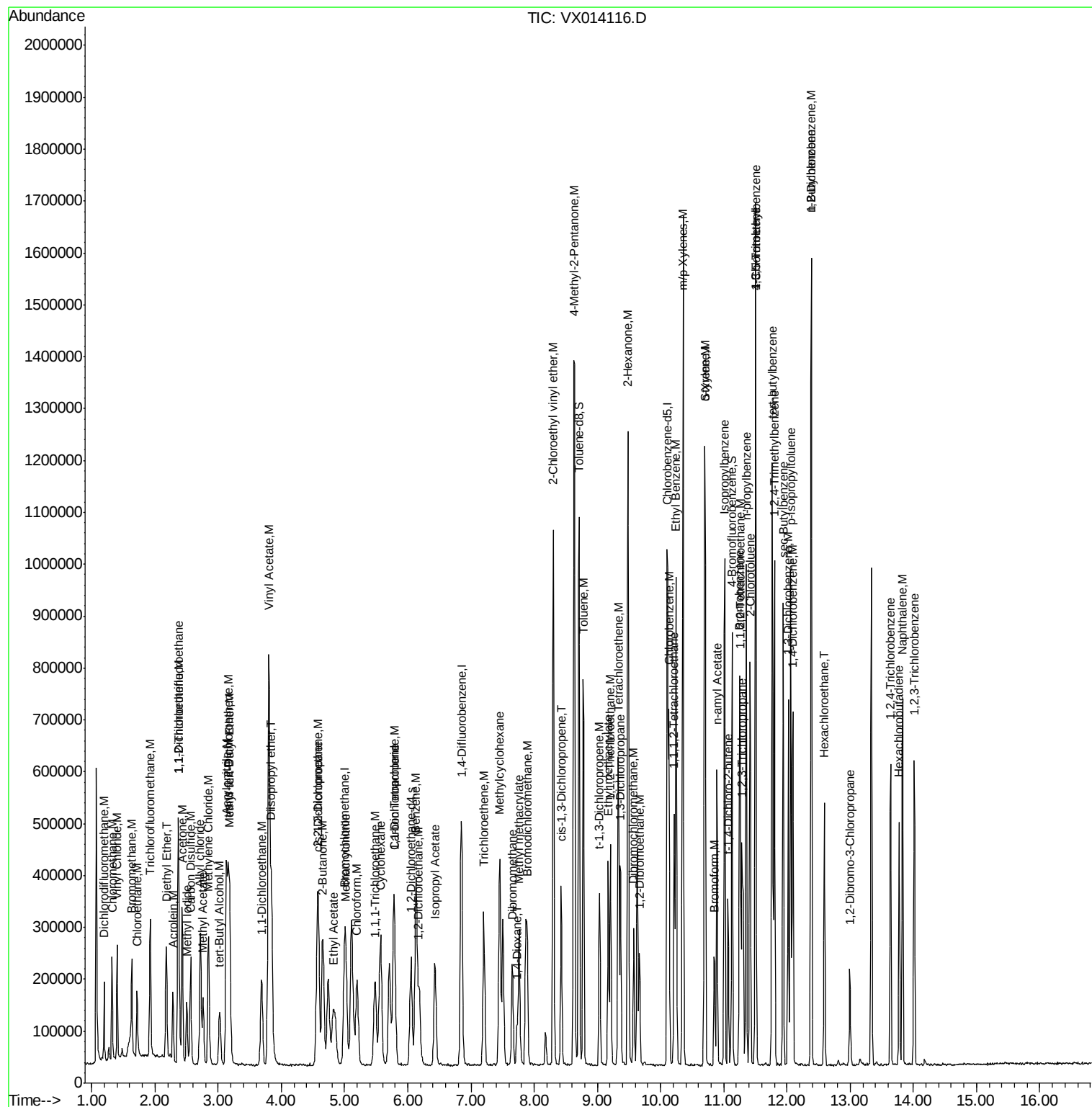
Quant Time: Dec 20 00:52:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
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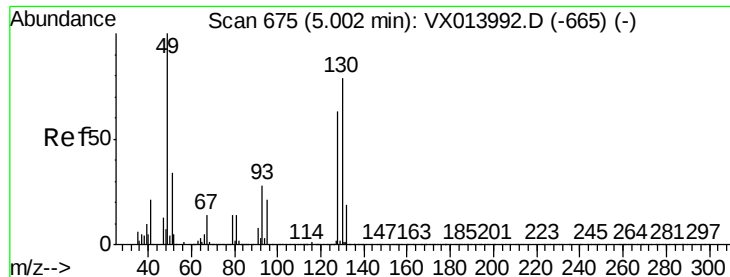
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
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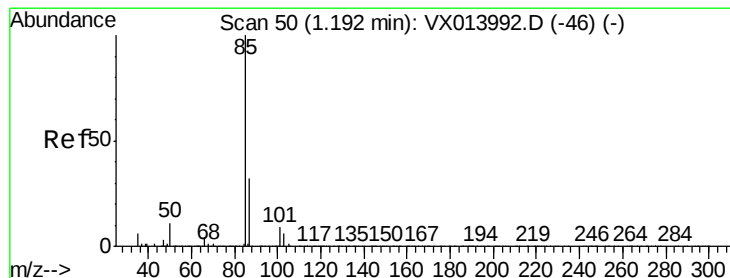
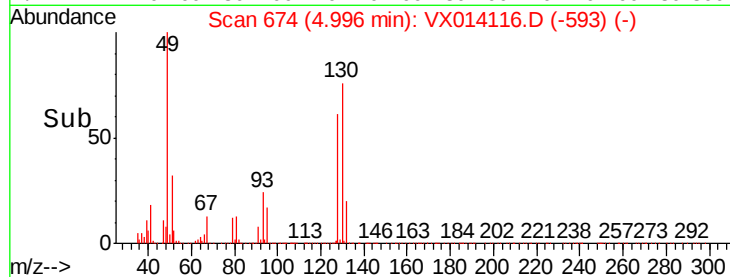
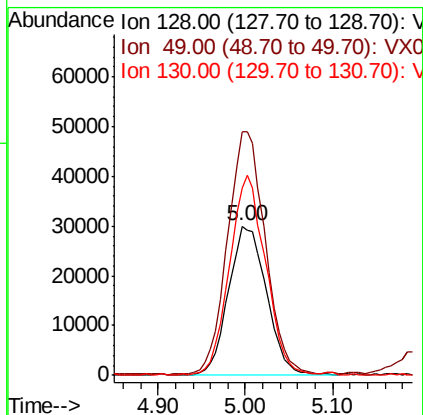
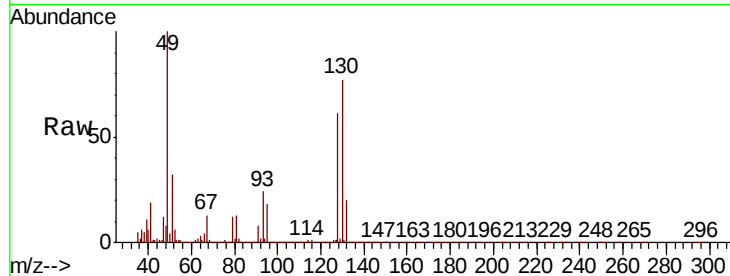


#1

Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 5.00 min Scan# 674  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Instrument :  
 MSVOA\_X  
 ClientSampleId :

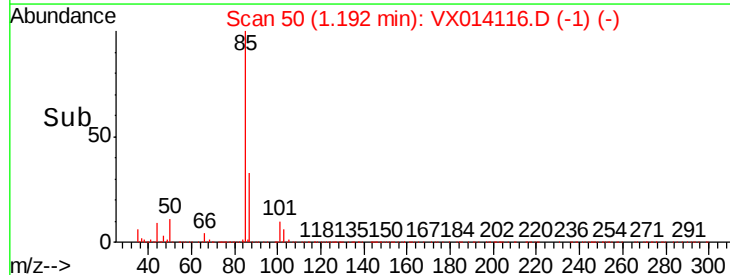
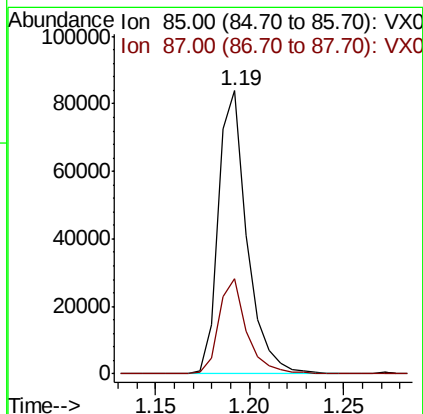
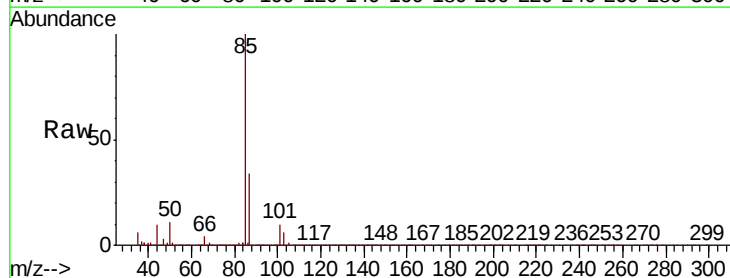
Tot Ion:128 Resp: 90141  
 Ion Ratio Lower Upper  
 128 100  
 49 161.3 0.0 405.0  
 130 127.5 0.0 321.5

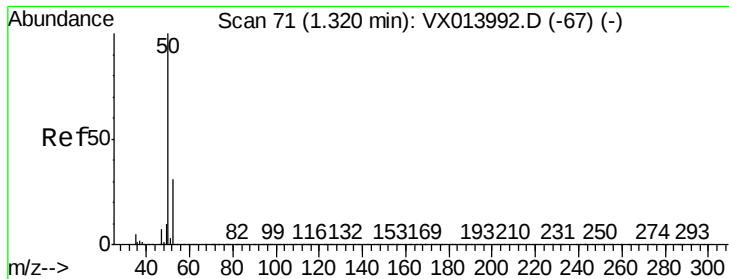


#2

Dichlorodifluoromethane  
 Concen: 19.352 ug/l  
 RT: 1.19 min Scan# 50  
 Delta R.T. 0.00 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Tgt Ion: 85 Resp: 88118  
 Ion Ratio Lower Upper  
 85 100  
 87 33.6 16.3 48.9





#3

Chloromethane

Concen: 19.458 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

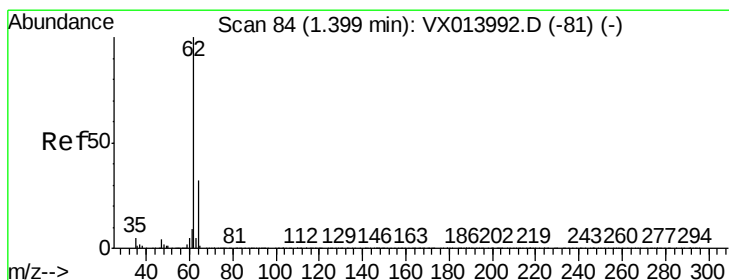
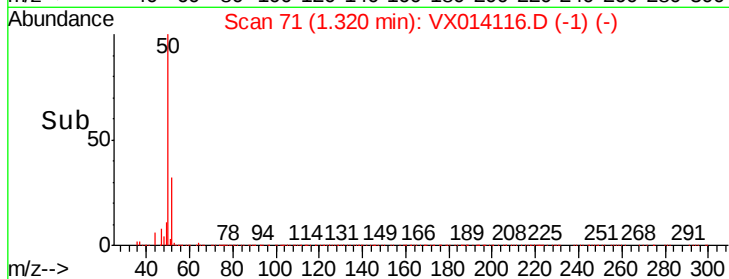
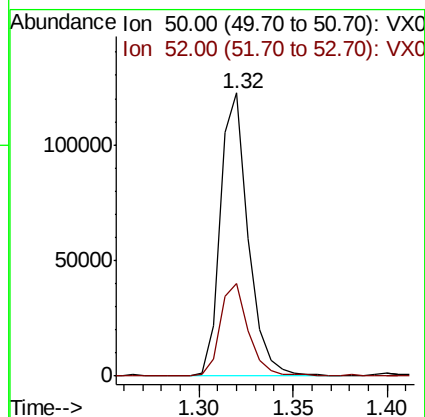
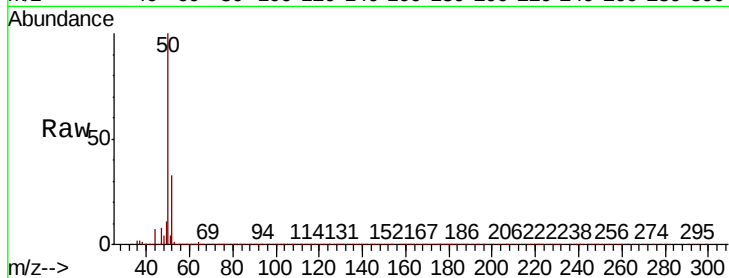
ClientSampled :

Tot Ion: 50 Resp: 124873

Ion Ratio Lower Upper

50 100

52 32.6 24.3 36.5



#4

Vinyl Chloride

Concen: 19.791 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX014116.D

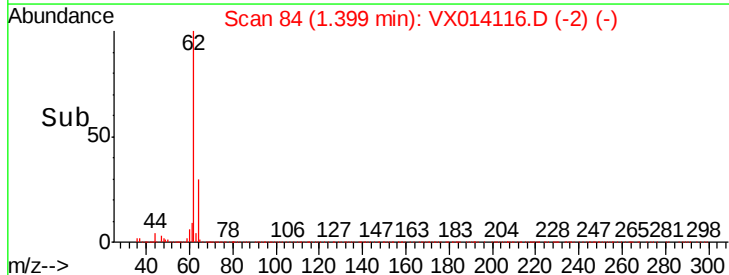
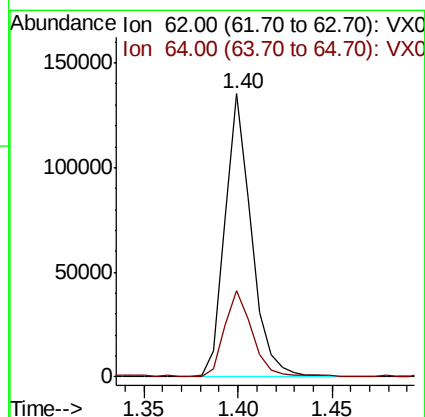
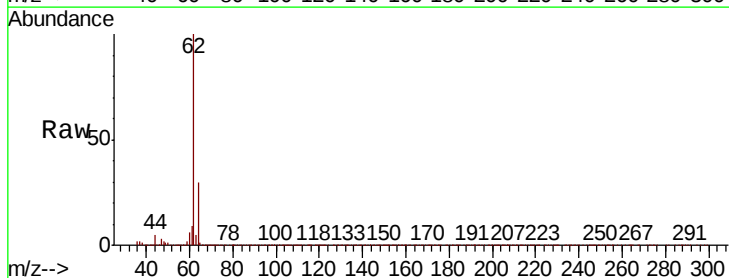
Acq: 19 Dec 2019 13:04

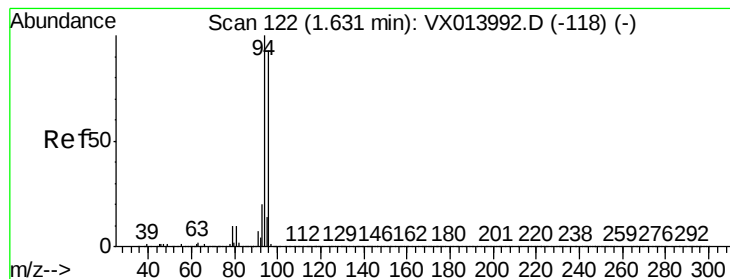
Tgt Ion: 62 Resp: 130204

Ion Ratio Lower Upper

62 100

64 30.1 25.2 37.8





#5

Bromomethane

Concen: 17.150 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

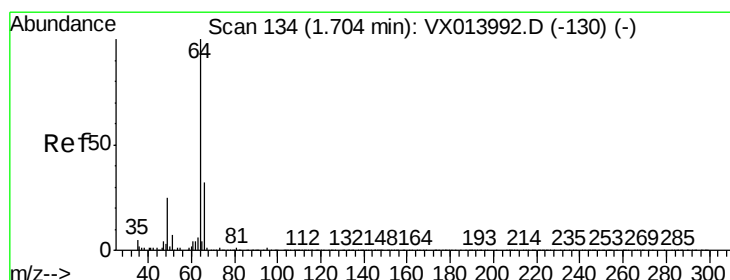
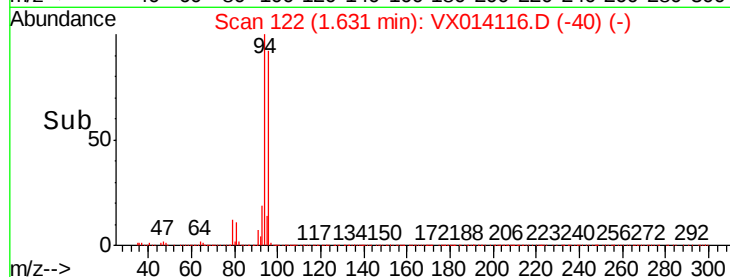
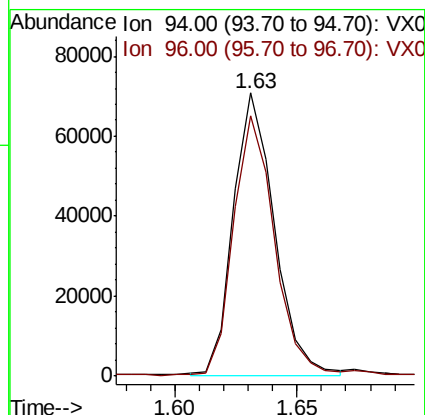
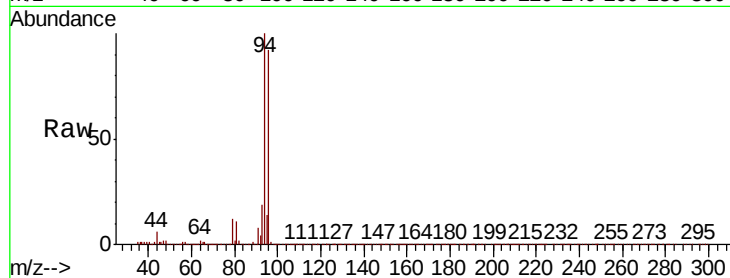
ClientSampleId :

Tot Ion: 94 Resp: 82481

Ion Ratio Lower Upper

94 100

96 92.3 74.4 111.6



#6

Chloroethane

Concen: 21.424 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX014116.D

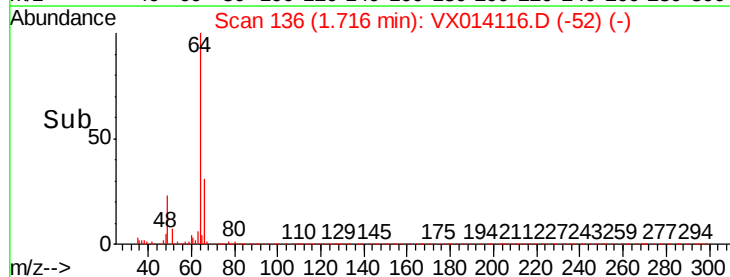
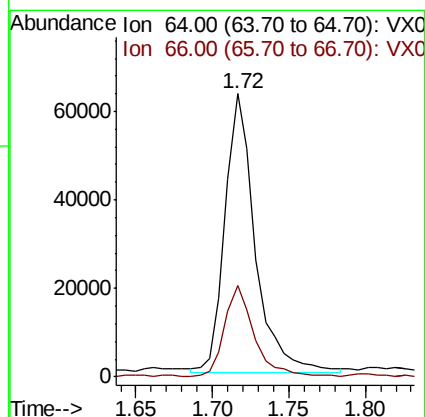
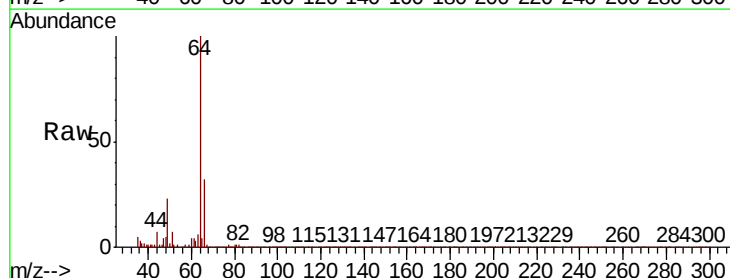
Acq: 19 Dec 2019 13:04

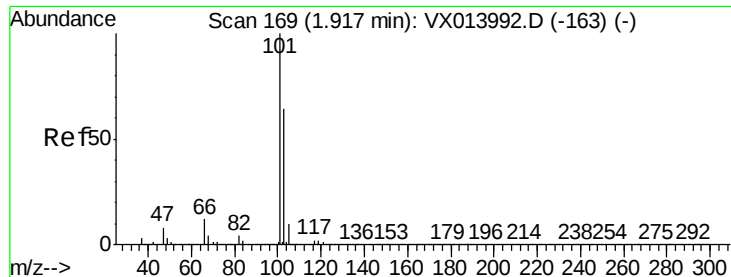
Tgt Ion: 64 Resp: 87061

Ion Ratio Lower Upper

64 100

66 32.9 25.2 37.8



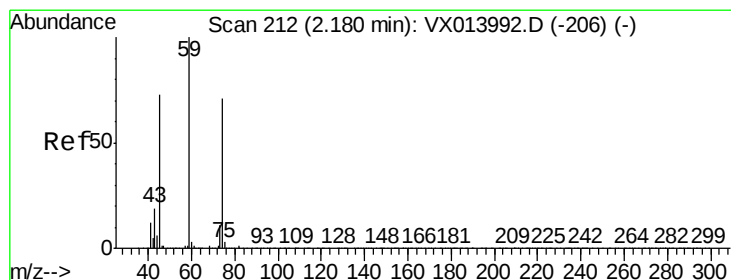
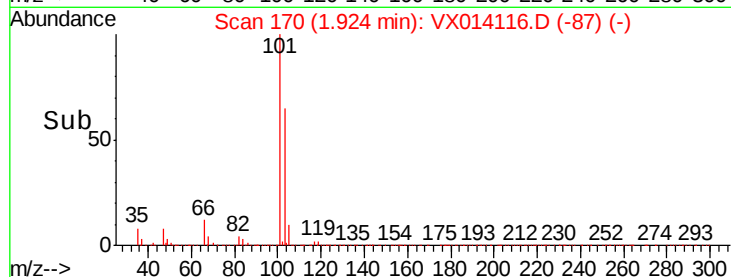
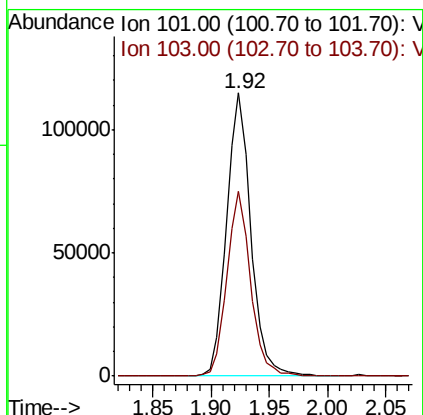
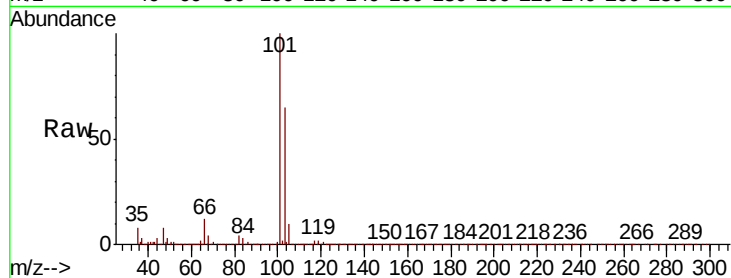


#7

Trichlorofluoromethane  
Concen: 20.345 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. 0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampleId :

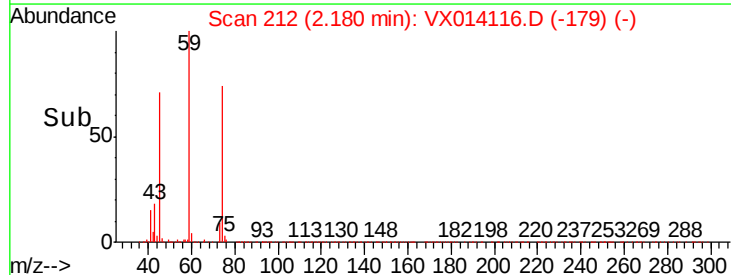
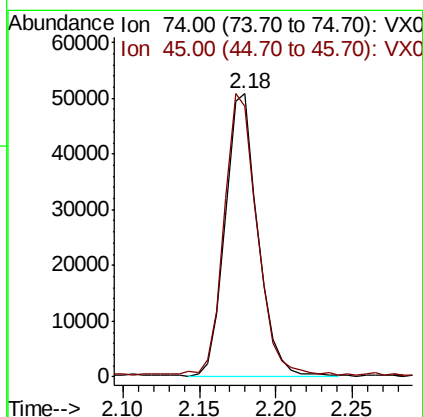
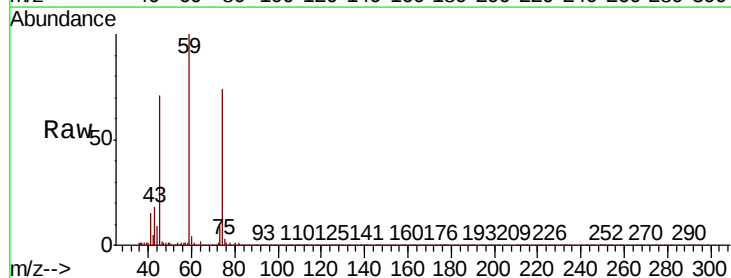
Tot Ion:101 Resp: 166550  
Ion Ratio Lower Upper  
101 100  
103 65.2 51.6 77.4

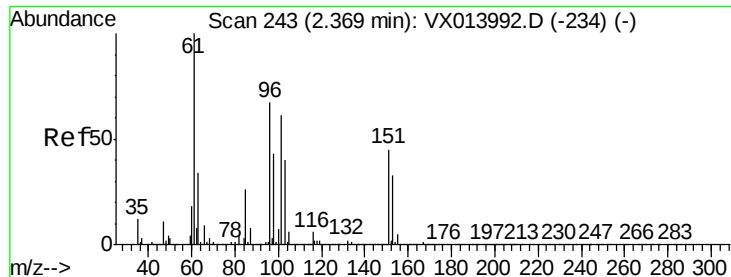


#8

Diethyl Ether  
Concen: 19.729 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion: 74 Resp: 74238  
Ion Ratio Lower Upper  
74 100  
45 101.2 20.6 185.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.509 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014116.D

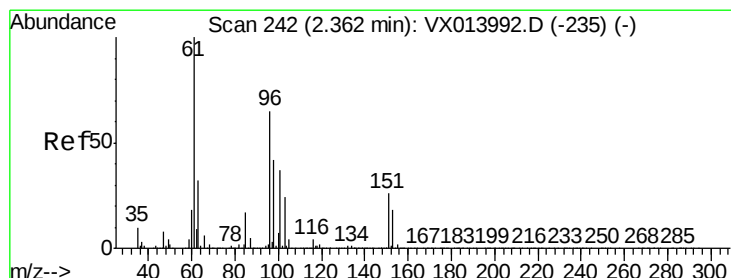
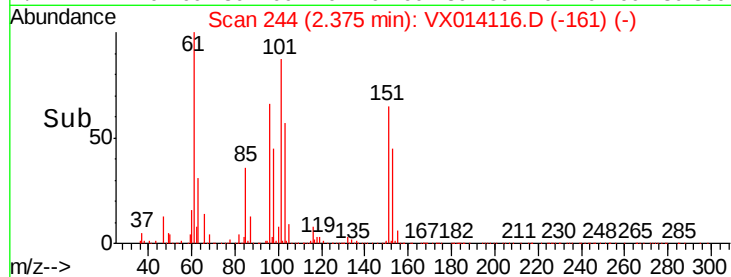
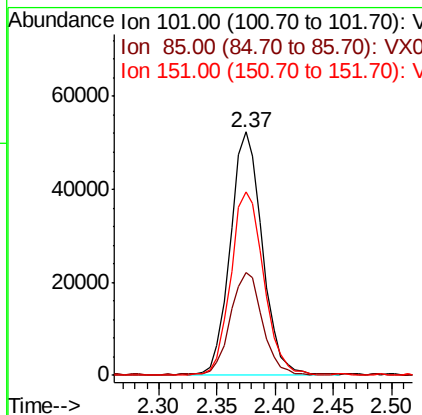
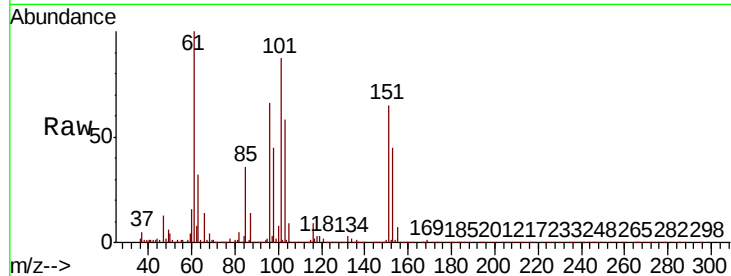
Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 101   | Resp: | 100134 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 41.7  | 0.0   | 85.6   |
| 151      | 78.3  | 0.0   | 159.4  |



#10

1,1-Dichloroethene

Concen: 19.139 ug/l

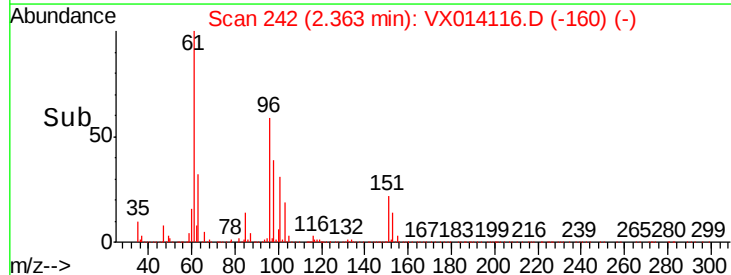
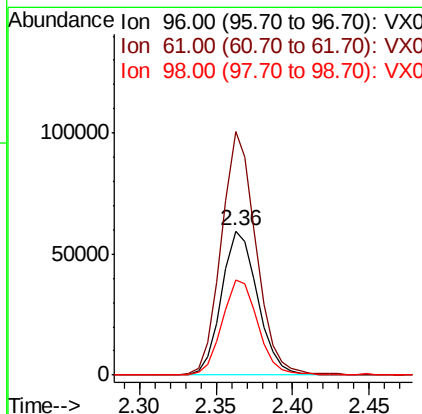
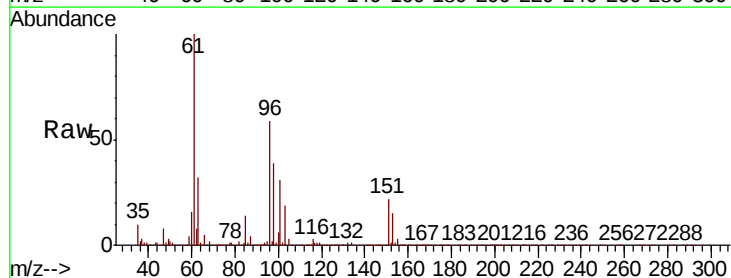
RT: 2.36 min Scan# 242

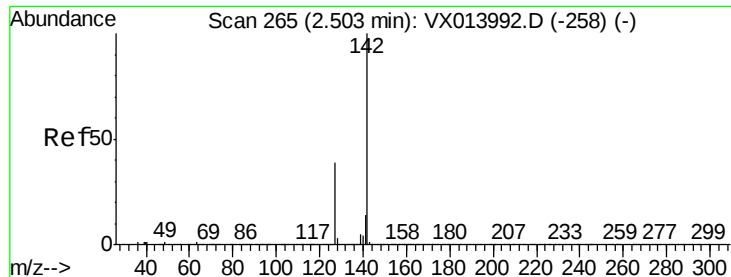
Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 96607 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 168.9 | 123.0 | 184.6 |
| 98       | 65.7  | 51.4  | 77.0  |

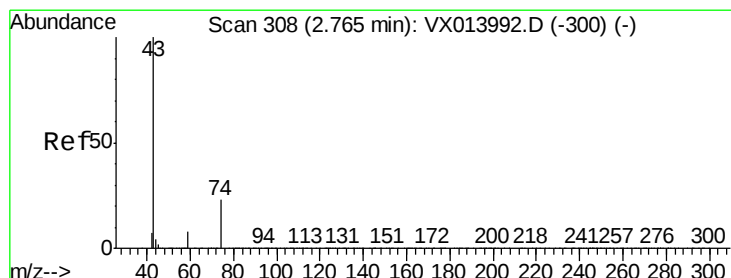
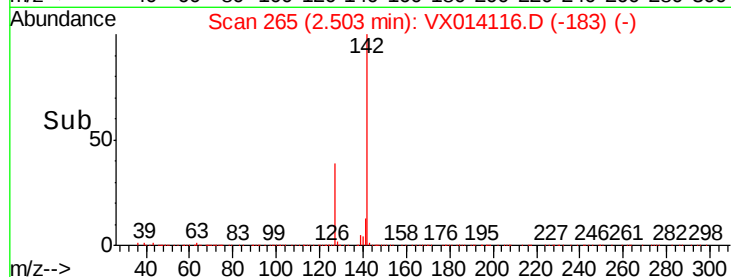
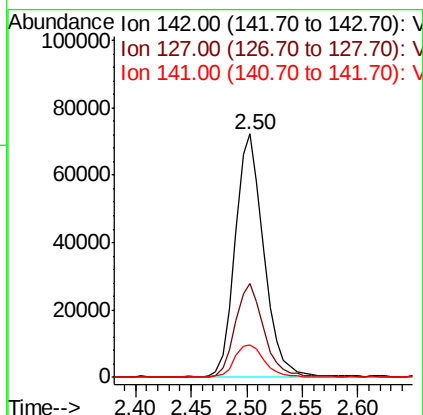
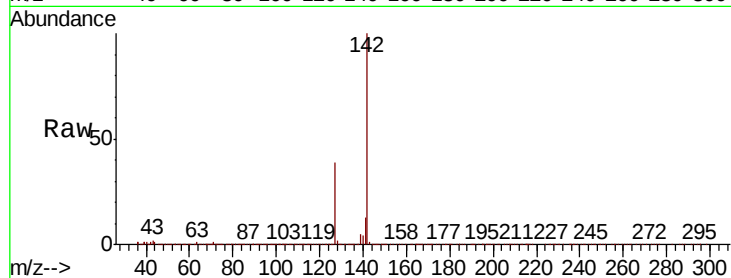




#11  
Methvl Iodide  
Concen: 19.770 ug/l  
RT: 2.50 min Scan# 265  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

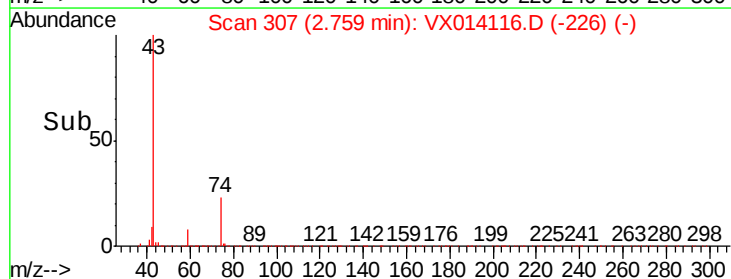
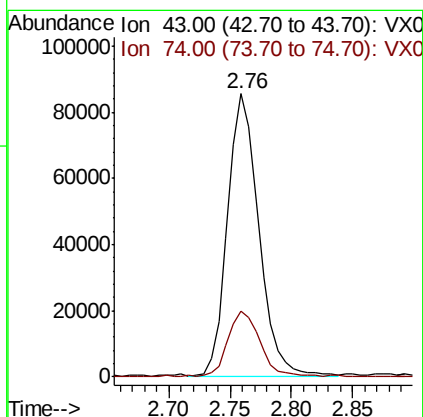
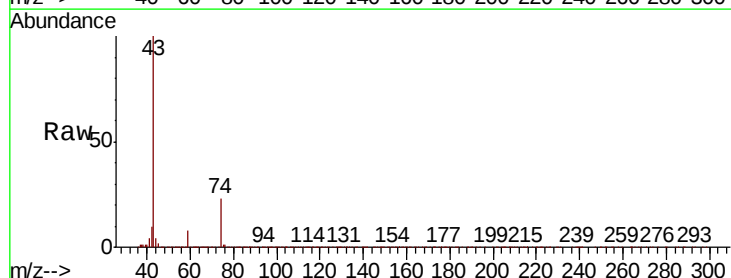
Instrument :  
MSVOA\_X  
ClientSampleId :

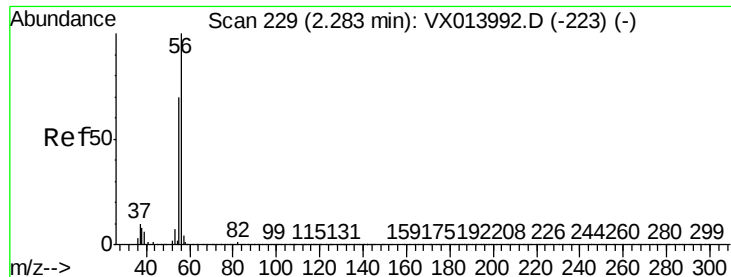
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 38.4  | 19.5  | 58.5  |
| 141     | 13.1  | 7.0   | 20.9  |



#12  
Methyl Acetate  
Concen: 19.272 ug/l  
RT: 2.76 min Scan# 307  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 22.7  | 18.5  | 27.7  |





#13

Acrolein

Concen: 104.709 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

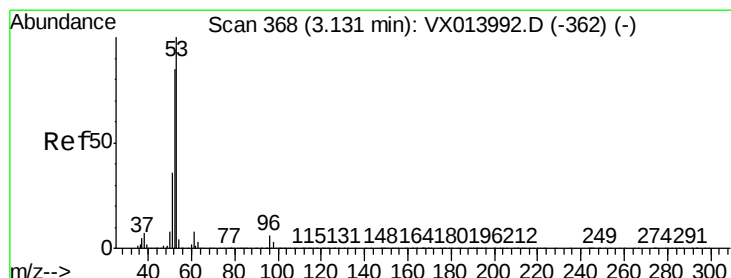
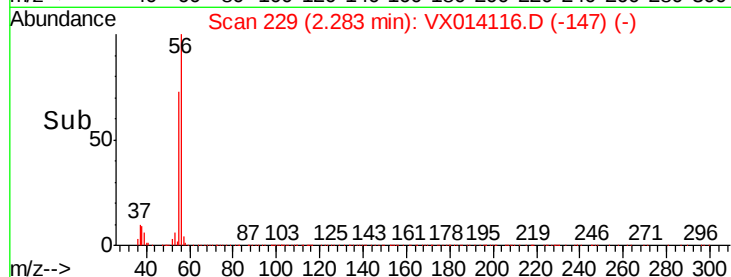
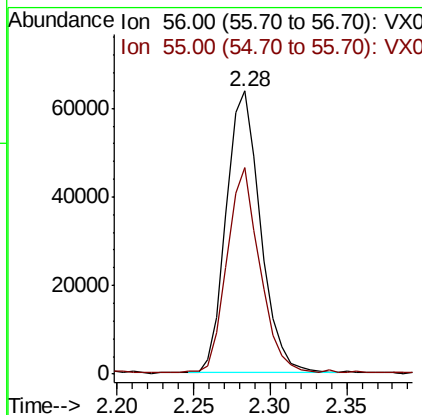
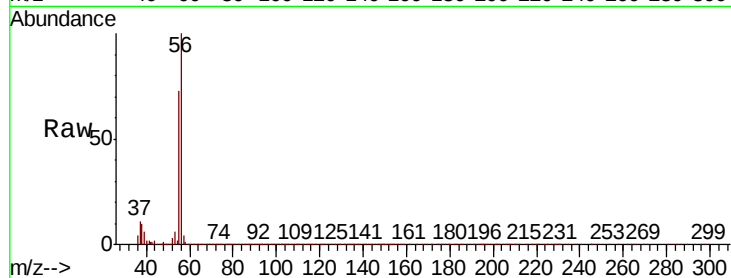
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 56 Resp: 99241

Ion Ratio Lower Upper

56 100

55 69.7 54.9 82.3



#14

Acrylonitrile

Concen: 99.680 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

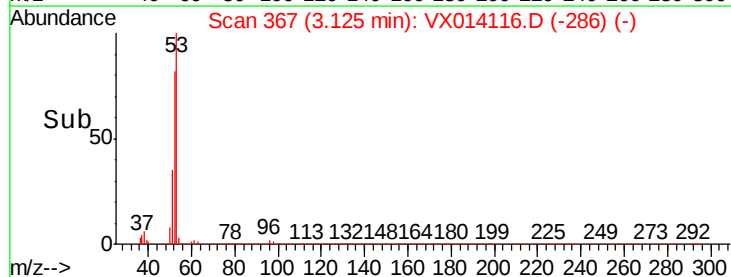
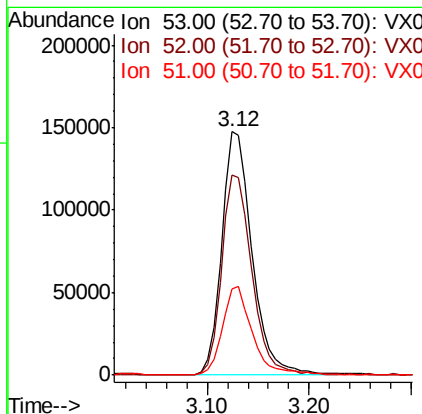
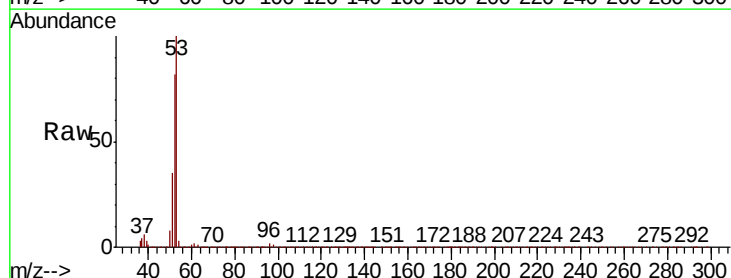
Tgt Ion: 53 Resp: 304506

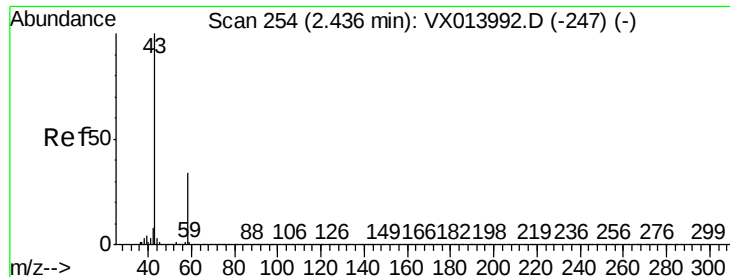
Ion Ratio Lower Upper

53 100

52 81.1 41.5 124.6

51 35.5 17.8 53.5





#15

Acetone

Concen: 106.456 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

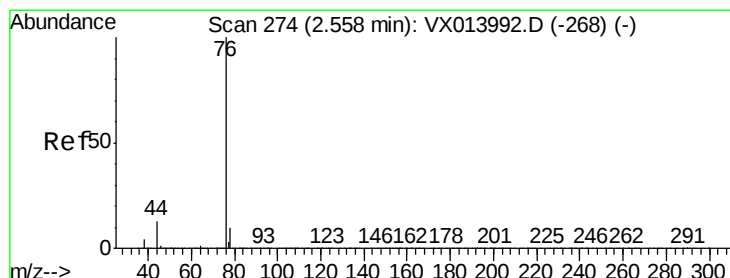
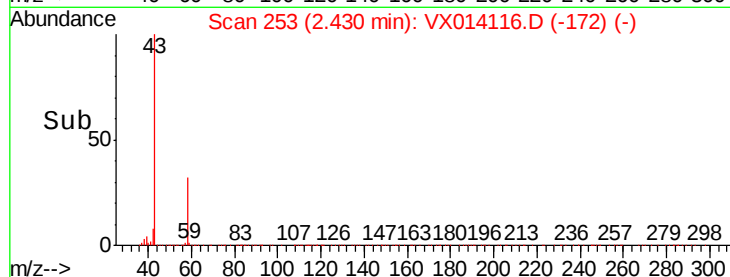
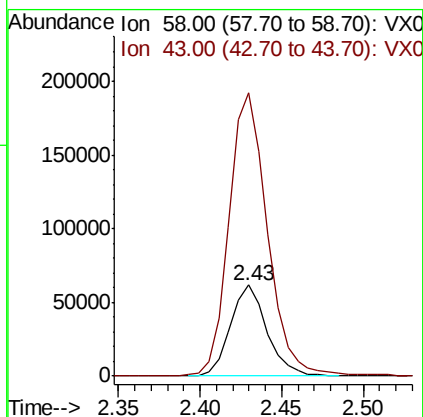
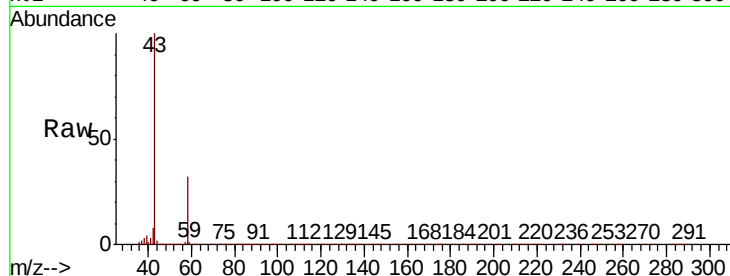
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 58 Resp: 95533

Ion Ratio Lower Upper

58 100

43 311.1 236.3 354.5



#16

Carbon Disulfide

Concen: 19.548 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014116.D

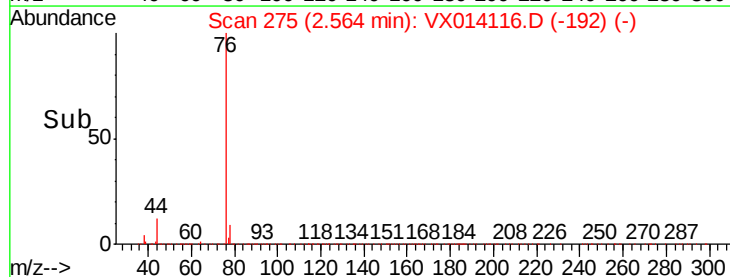
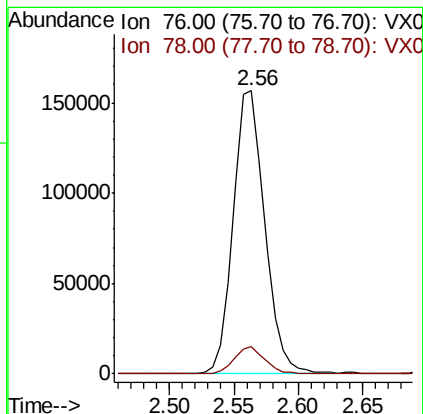
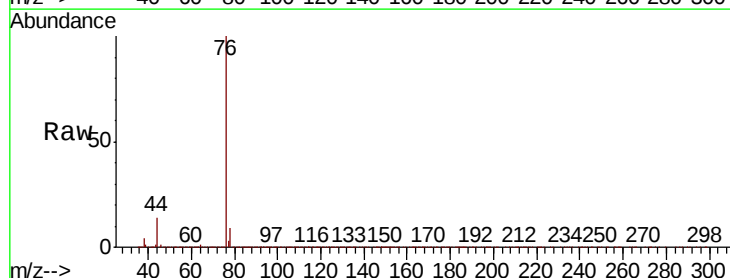
Acq: 19 Dec 2019 13:04

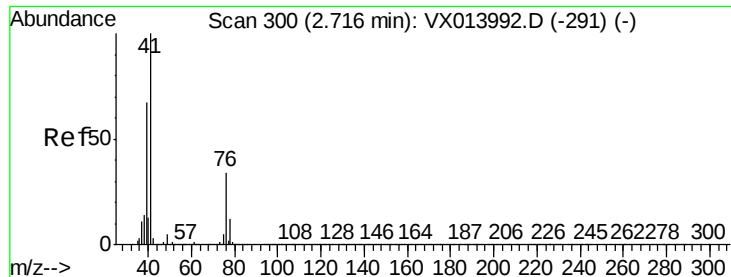
Tgt Ion: 76 Resp: 267303

Ion Ratio Lower Upper

76 100

78 9.4 7.8 11.8

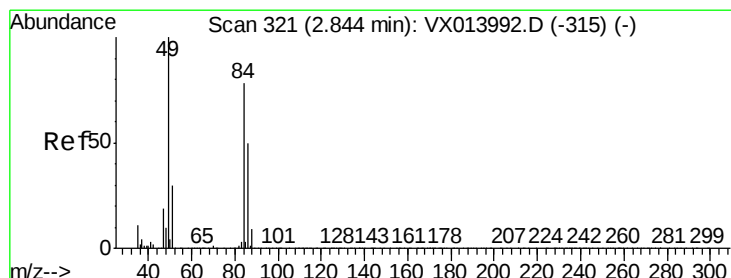
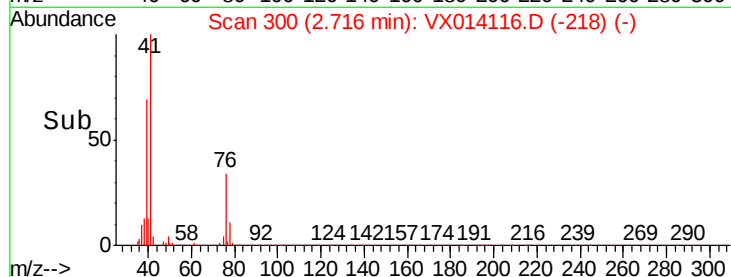
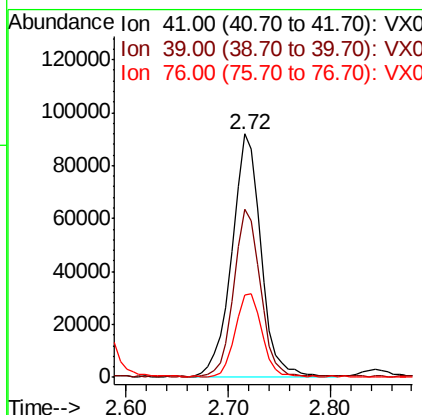
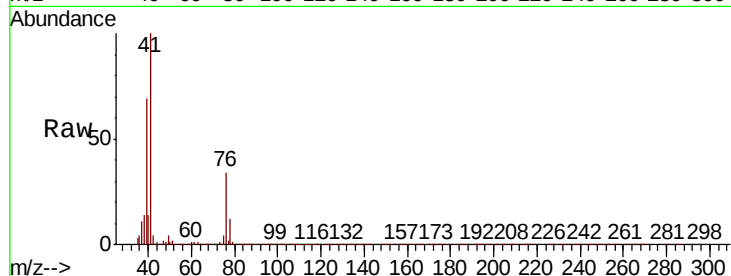




#17  
Allvl chloride  
Concen: 19.810 ug/l  
RT: 2.72 min Scan# 300  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

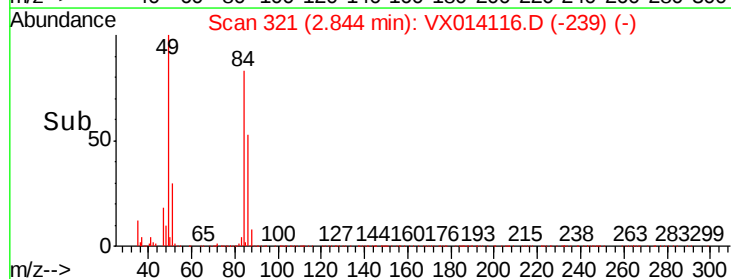
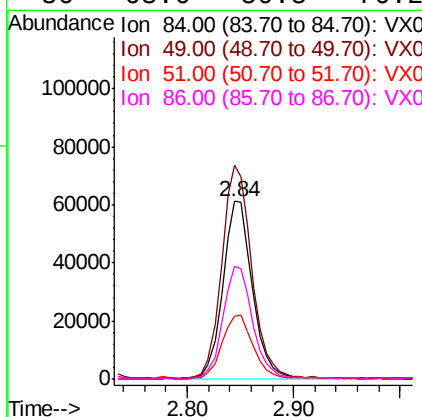
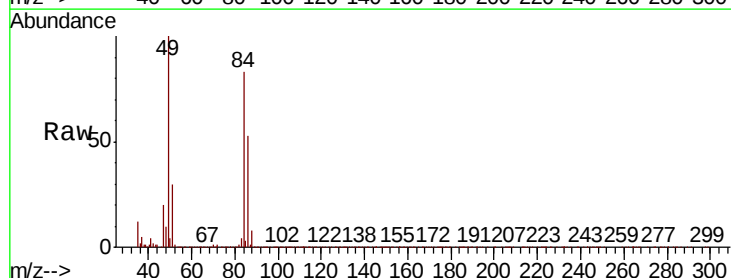
Instrument :  
MSVOA\_X  
ClientSampleId :

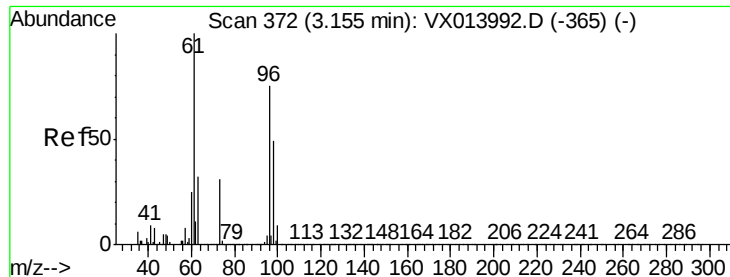
Tot Ion: 41 Resp: 179681  
Ion Ratio Lower Upper  
41 100  
39 68.7 33.4 100.2  
76 33.8 17.0 50.9



#18  
Methylene Chloride  
Concen: 19.132 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion: 84 Resp: 118333  
Ion Ratio Lower Upper  
84 100  
49 120.1 102.2 153.2  
51 35.3 31.4 47.0  
86 63.6 50.8 76.2





#19

trans-1,2-Dichloroethene

Concen: 19.487 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampled :

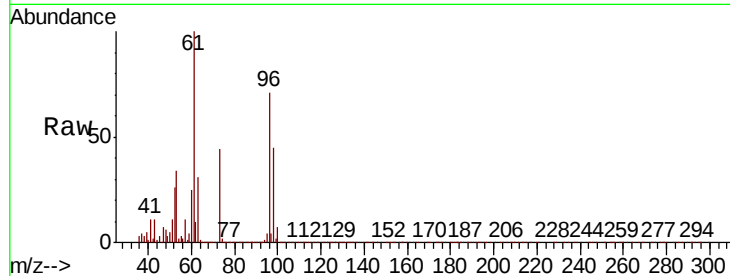
Tot Ion: 96 Resp: 107714

Ion Ratio Lower Upper

96 100

61 141.4 106.6 159.8

98 63.9 51.6 77.4

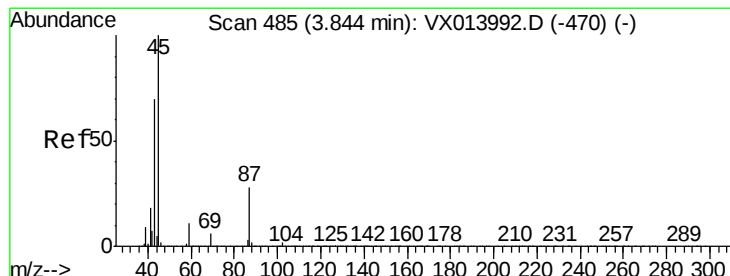
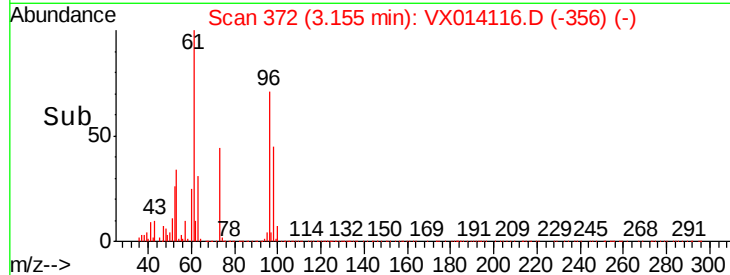
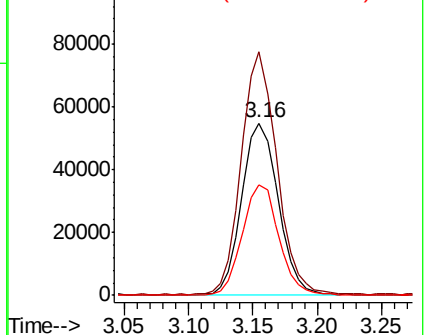


Abundance

Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#20

Diisopropyl ether

Concen: 19.793 ug/l

RT: 3.84 min Scan# 484

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Tgt Ion: 45 Resp: 368385

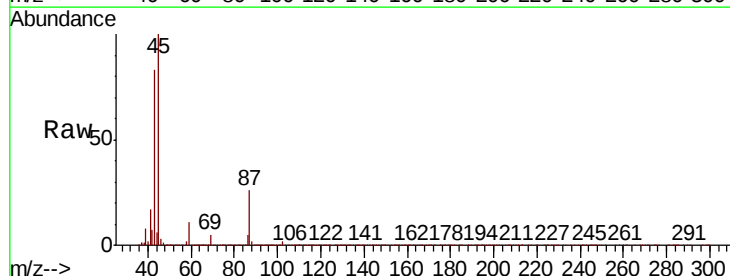
Ion Ratio Lower Upper

45 100

43 81.4 55.9 83.9

87 25.9 22.2 33.2

59 10.9 8.6 13.0



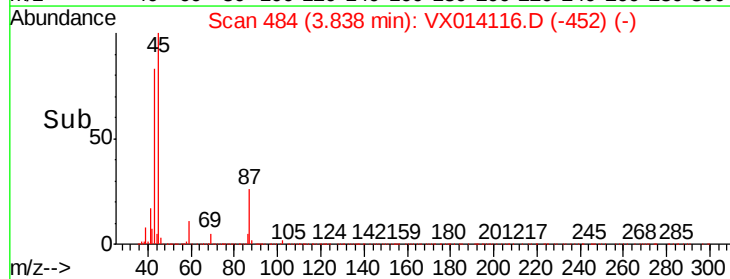
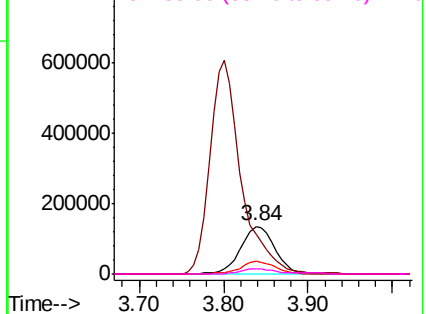
Abundance

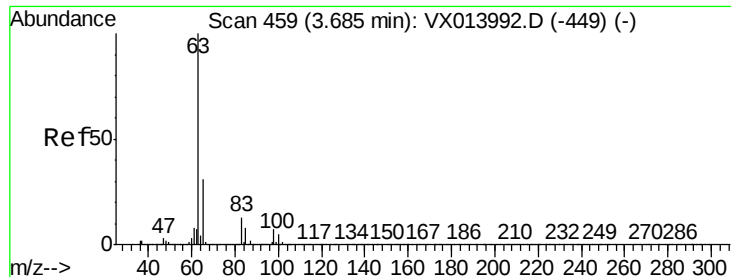
Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#21

1,1-Dichloroethane

Concen: 19.460 ug/l

RT: 3.69 min Scan# 459

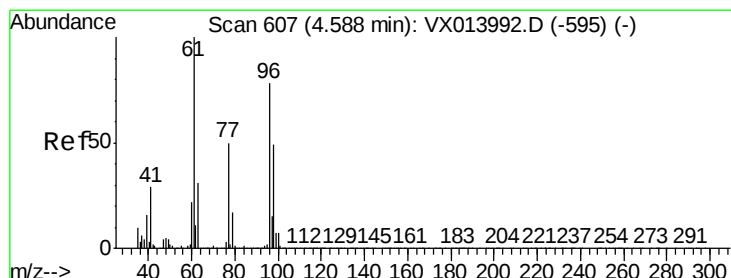
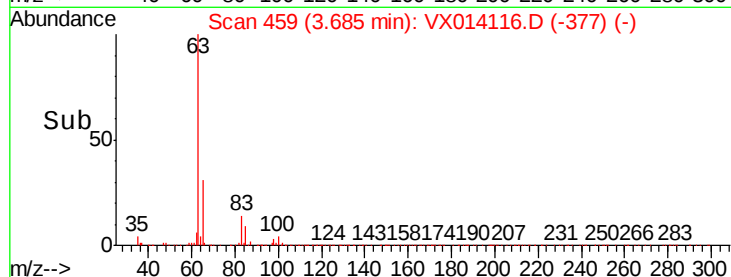
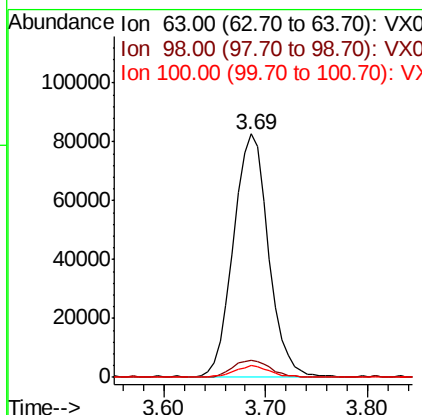
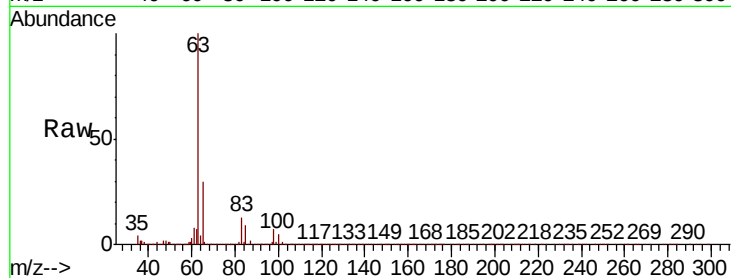
Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 63    | Resp: | 196564 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 6.8   | 3.4   | 10.1   |
| 100      | 4.8   | 2.5   | 7.4    |



#22

cis-1,2-Dichloroethene

Concen: 19.396 ug/l

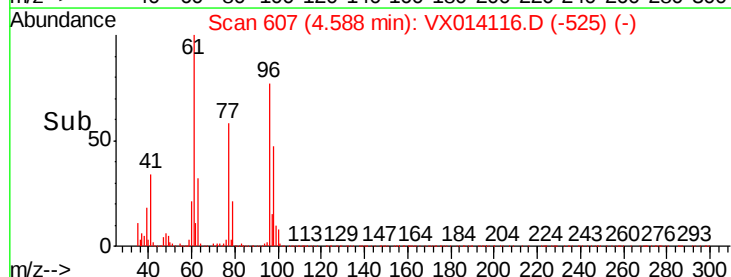
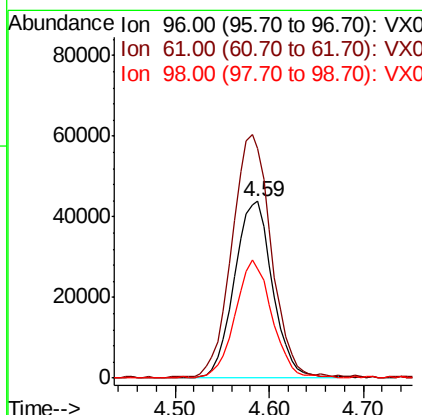
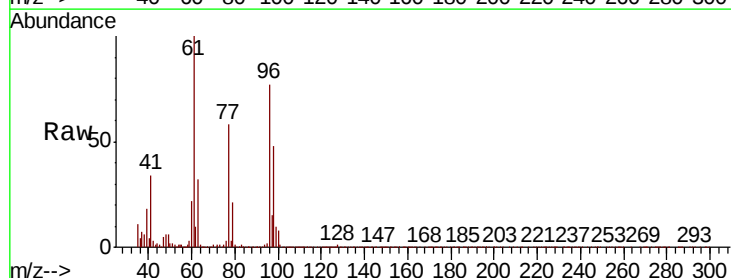
RT: 4.59 min Scan# 607

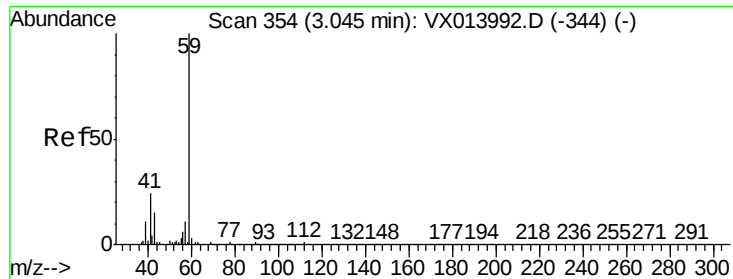
Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 124286 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 141.3 | 112.4 | 168.6  |
| 98       | 63.8  | 50.3  | 75.5   |



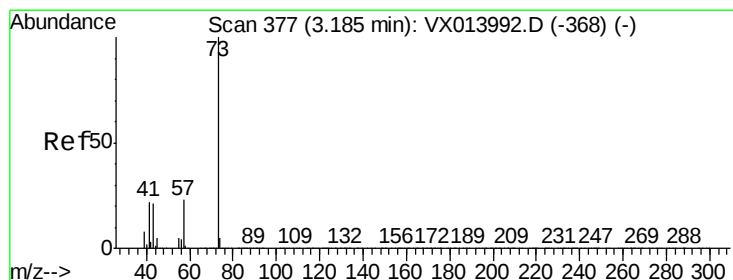
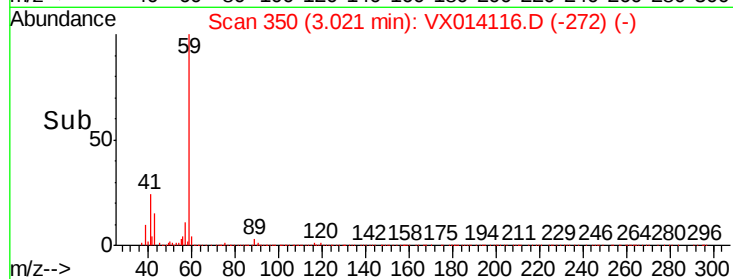
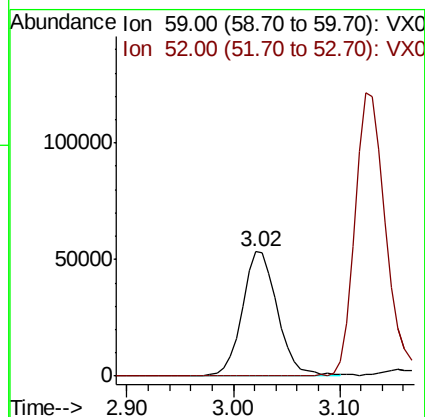
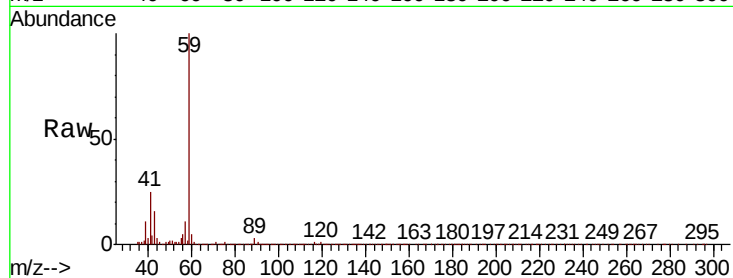


#23

tert-Butyl Alcohol  
 Concen: 102.035 ug/l  
 RT: 3.02 min Scan# 350  
 Delta R.T. -0.02 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Instrument :  
 MSVOA\_X  
 ClientSampled :

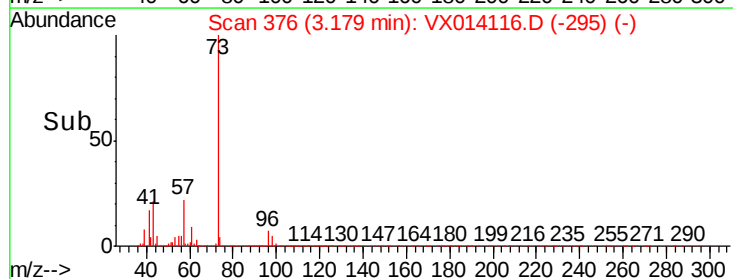
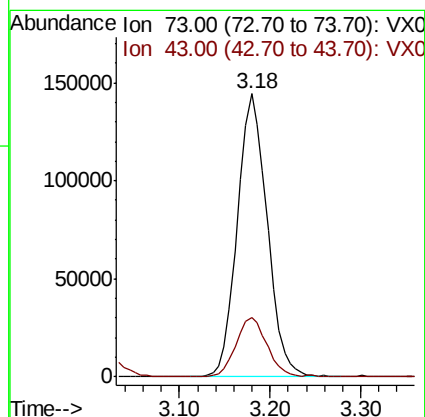
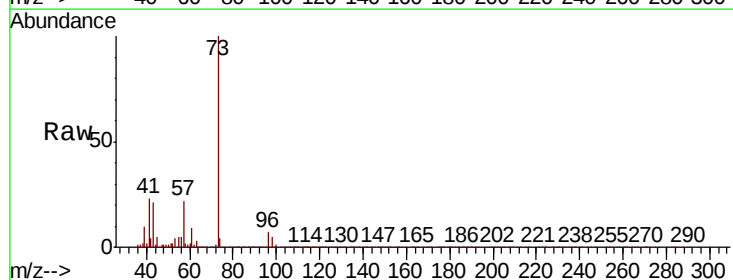
Tot Ion: 59 Resp: 122258  
 Ion Ratio Lower Upper  
 59 100  
 52 0.2 0.2 0.2

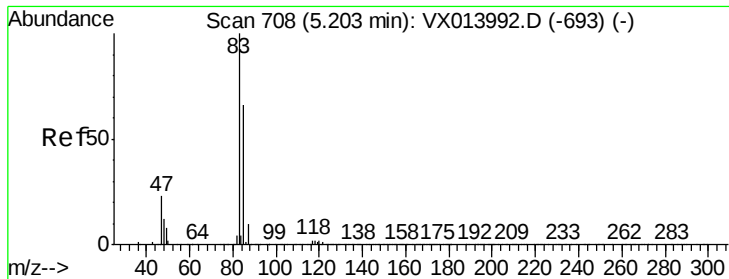


#24

Methyl tert-Butyl Ether  
 Concen: 19.384 ug/l  
 RT: 3.18 min Scan# 376  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Tgt Ion: 73 Resp: 330512  
 Ion Ratio Lower Upper  
 73 100  
 43 21.1 16.6 25.0





#25

Chloroform

Concen: 19.530 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

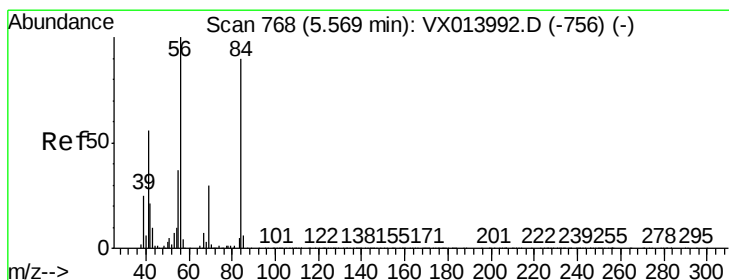
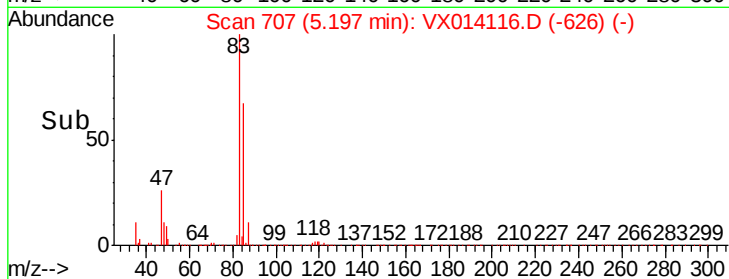
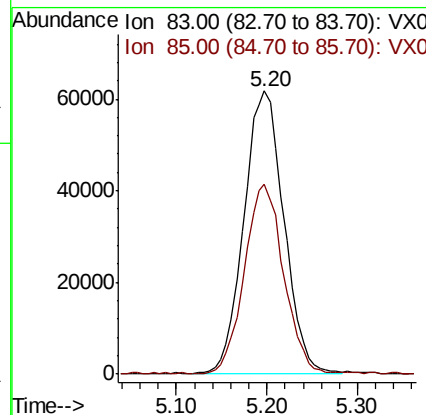
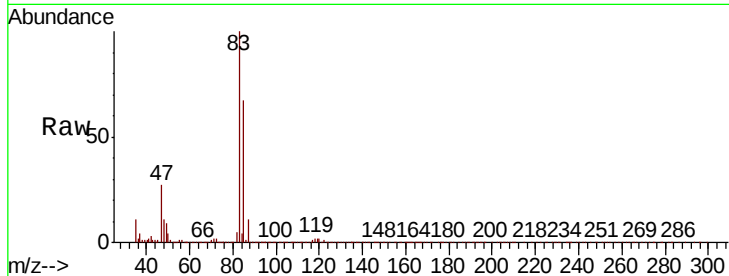
ClientSampleId :

Tot Ion: 83 Resp: 188079

Ion Ratio Lower Upper

83 100

85 66.7 52.7 79.1



#26

Cyclohexane

Concen: 19.788 ug/l

RT: 5.56 min Scan# 767

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

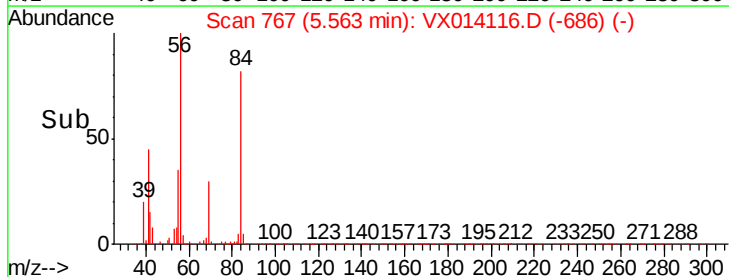
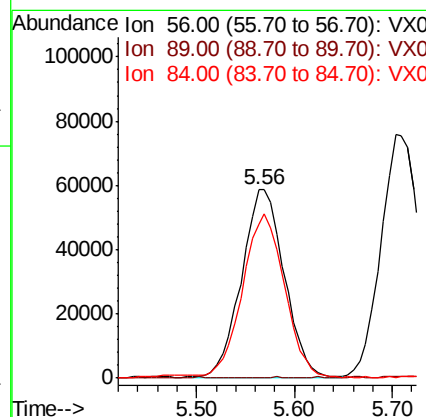
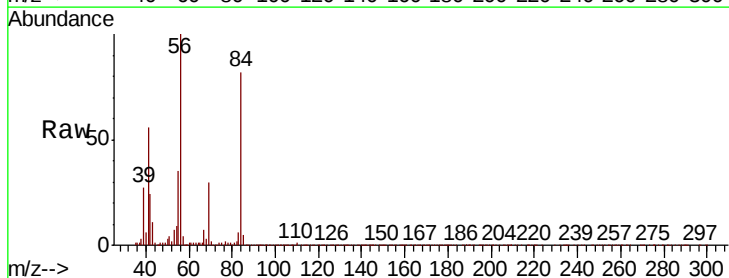
Tgt Ion: 56 Resp: 178233

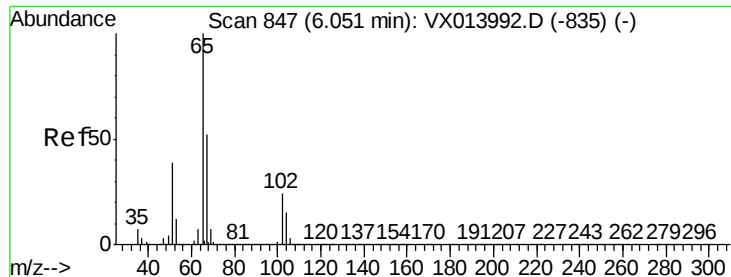
Ion Ratio Lower Upper

56 100

89 0.0 0.1 0.1#

84 85.4 70.8 106.2





#27

1,2-Dichloroethane-d4

Concen: 29.658 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

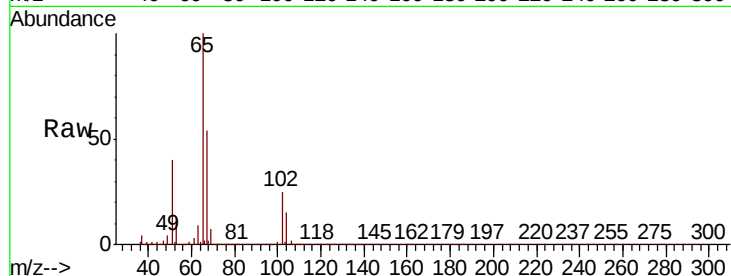
ClientSampleId :

Tot Ion: 65 Resp: 191463

Ion Ratio Lower Upper

65 100

67 52.4 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.05

80000

60000

40000

20000

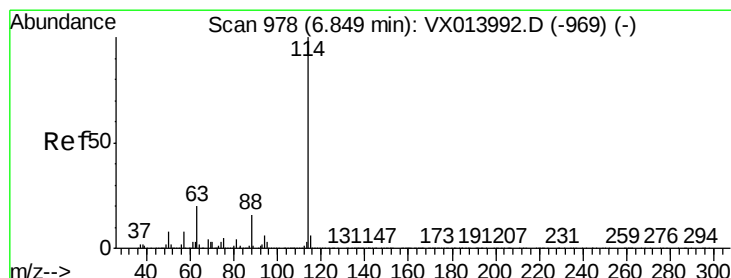
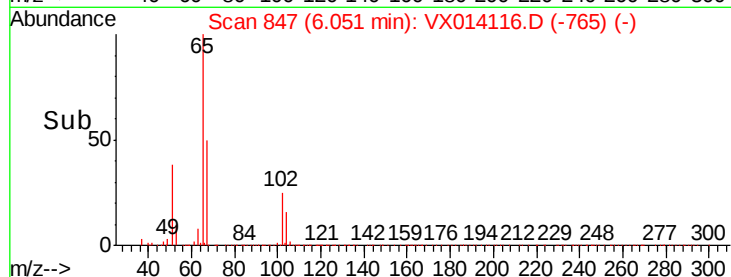
0

Time-->

5.90

6.00

6.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

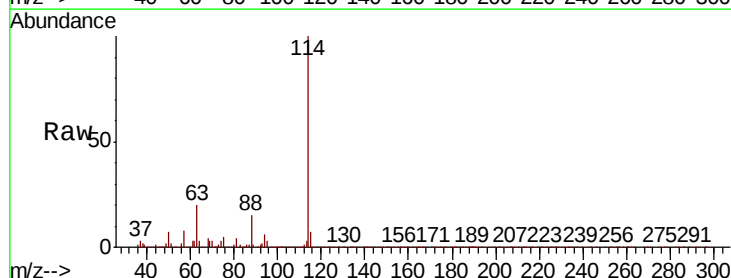
Tgt Ion: 114 Resp: 501452

Ion Ratio Lower Upper

114 100

63 19.9 16.1 24.1

88 15.7 12.5 18.7



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

6.85

250000

200000

150000

100000

50000

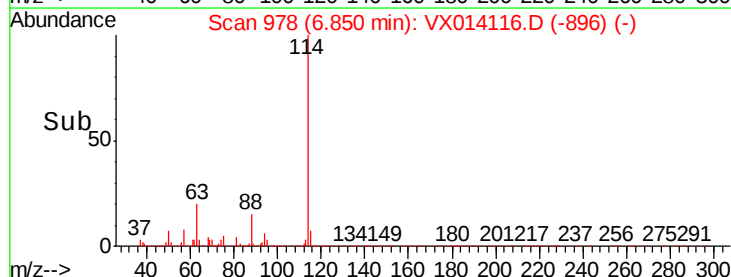
0

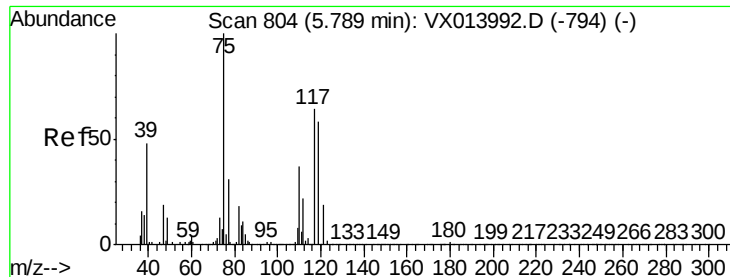
Time-->

6.80

6.90

7.00

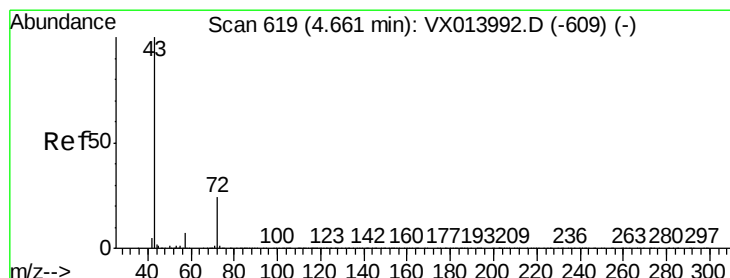
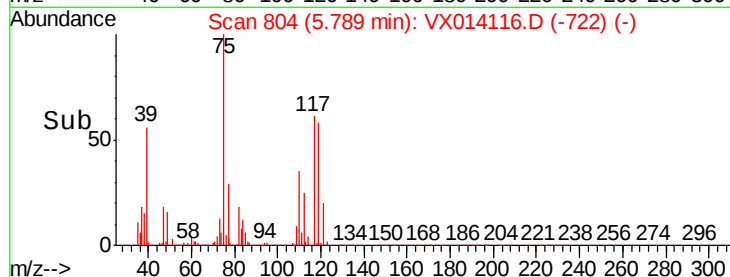
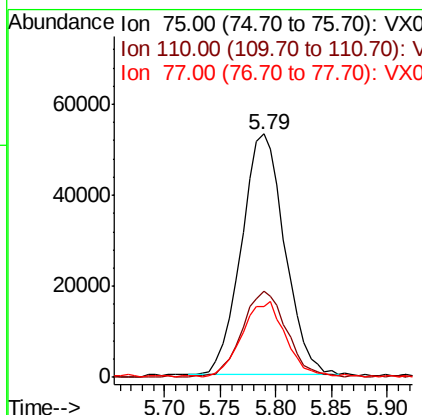
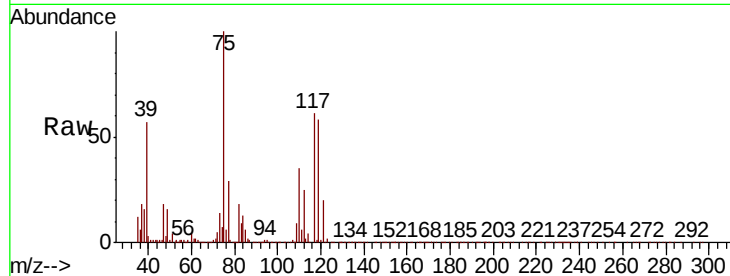




#29  
1,1-Dichloropropene  
Concen: 19.814 ug/l  
RT: 5.79 min Scan# 804  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

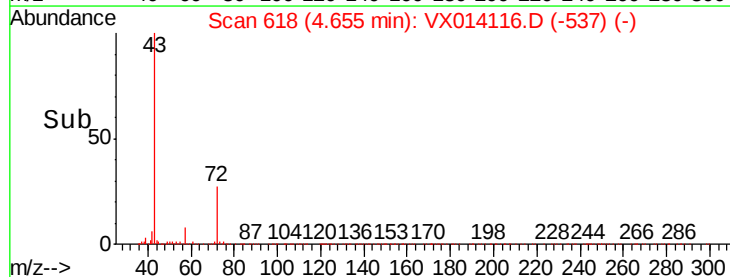
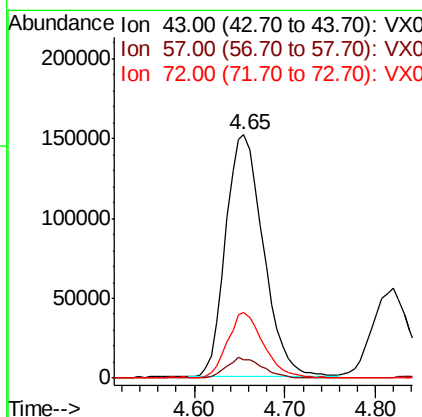
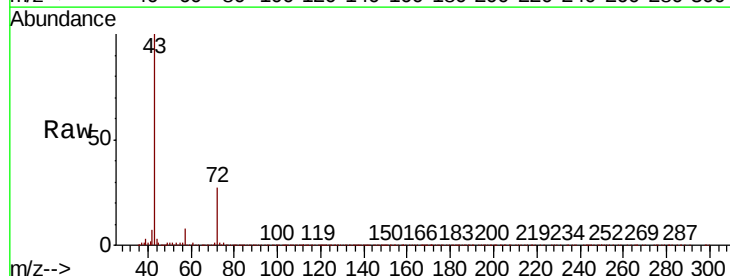
Instrument :  
MSVOA\_X  
ClientSampleId :

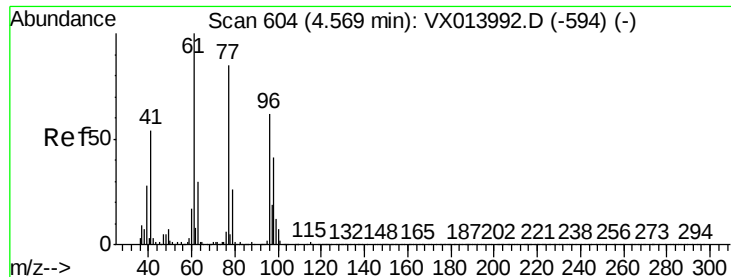
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 36.4  | 0.0   | 73.8  |
| 77      | 31.0  | 0.0   | 62.4  |



#30  
2-Butanone  
Concen: 102.781 ug/l  
RT: 4.65 min Scan# 618  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 7.9   | 6.2   | 9.2   |
| 72      | 25.2  | 20.3  | 30.5  |





#31

2,2-Dichloropropane

Concen: 22.874 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

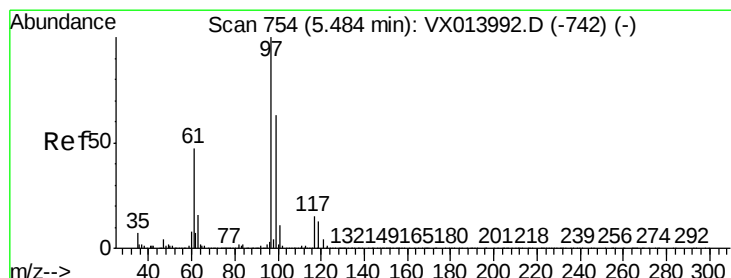
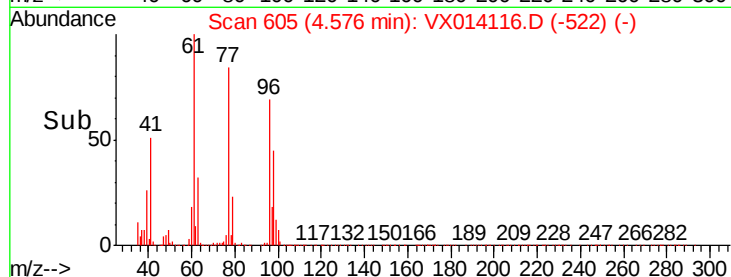
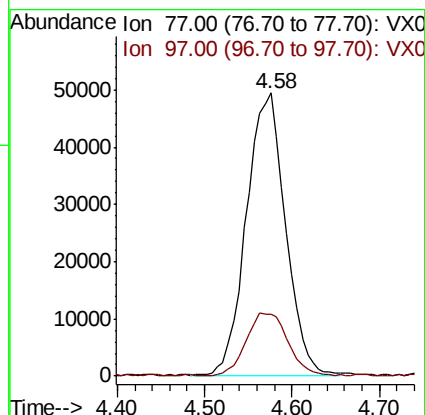
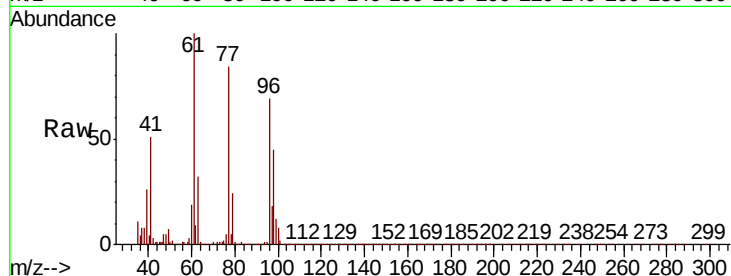
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 77 Resp: 153263

Ion Ratio Lower Upper

77 100

97 23.8 19.7 29.5



#32

1,1,1-Trichloroethane

Concen: 19.719 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

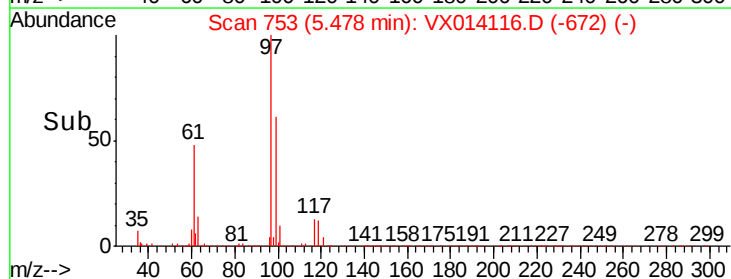
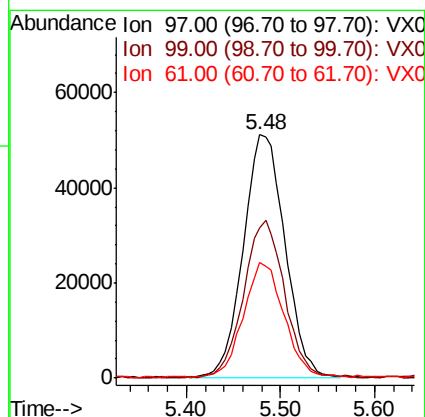
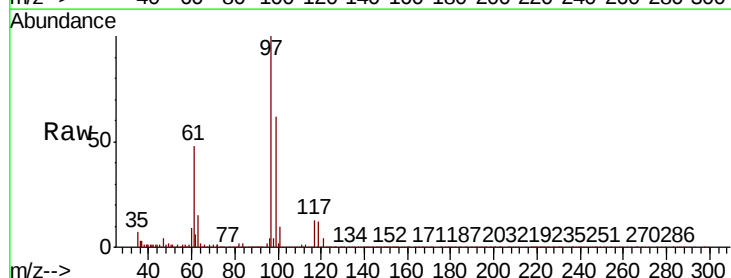
Tgt Ion: 97 Resp: 157981

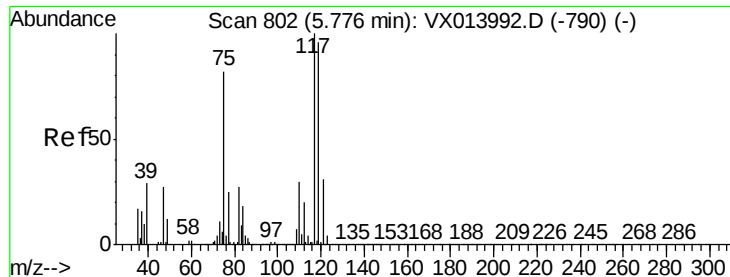
Ion Ratio Lower Upper

97 100

99 64.3 51.9 77.9

61 46.1 36.8 55.2

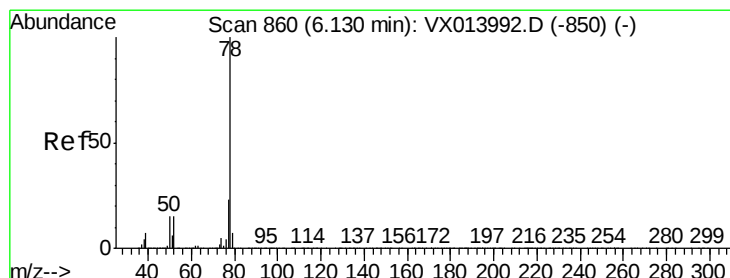
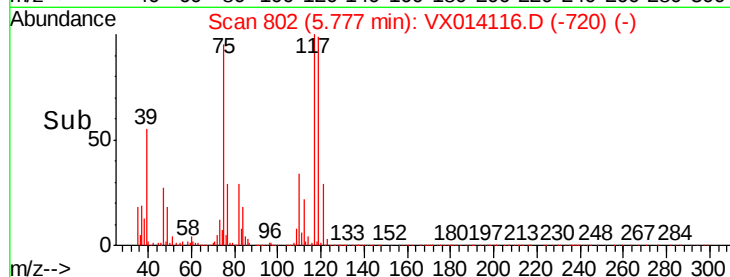
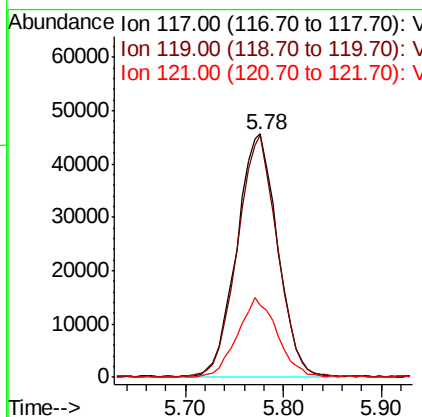
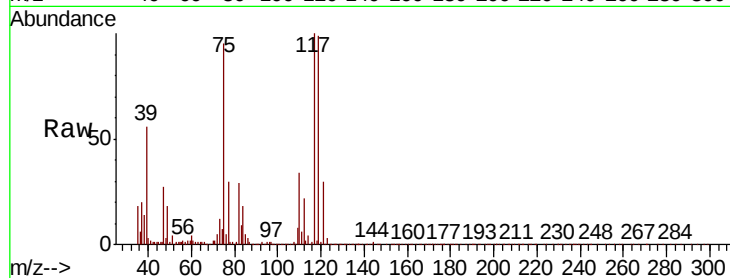




#33  
Carbon Tetrachloride  
Concen: 19.340 ug/l  
RT: 5.78 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

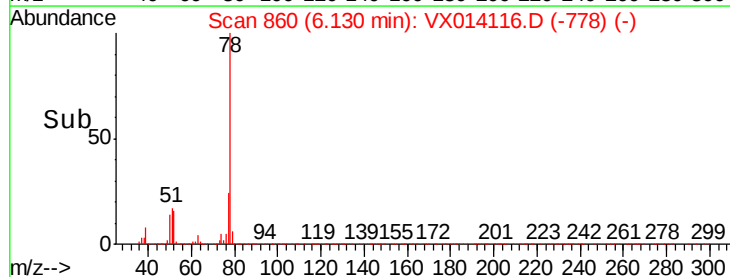
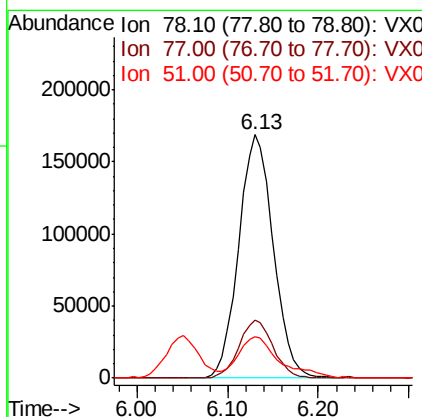
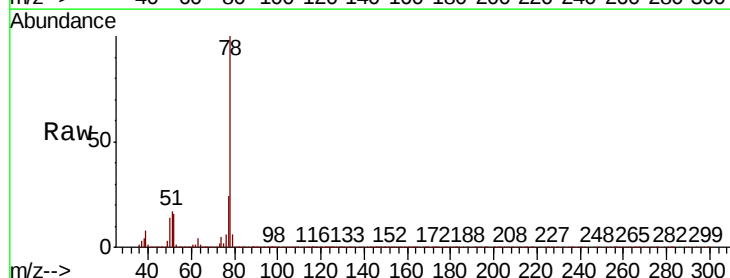
Instrument :  
MSVOA\_X  
ClientSampleId :

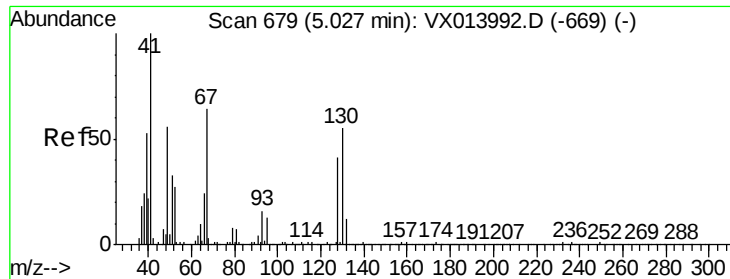
Tot Ion:117 Resp: 131718  
Ion Ratio Lower Upper  
117 100  
119 99.2 77.2 115.8  
121 29.6 24.8 37.2



#34  
Benzene  
Concen: 19.744 ug/l  
RT: 6.13 min Scan# 860  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion: 78 Resp: 445938  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.2 27.2  
51 16.9 12.4 18.6

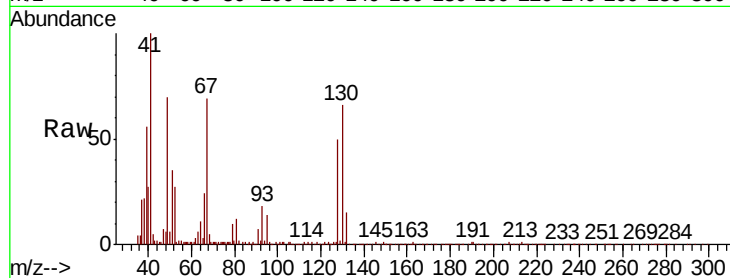




#35  
Methacrylonitrile  
Concen: 19.232 ug/l  
RT: 5.03 min Scan# 679  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 88307 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.0  | 26.7  | 80.1  |
| 67       | 69.7  | 31.5  | 94.5  |
| 52       | 27.1  | 12.8  | 38.4  |



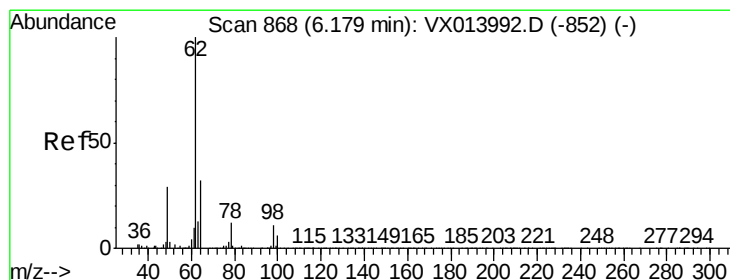
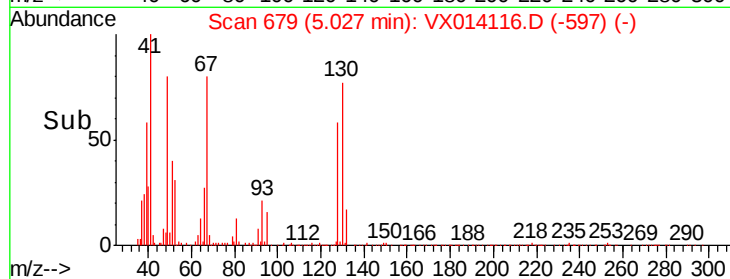
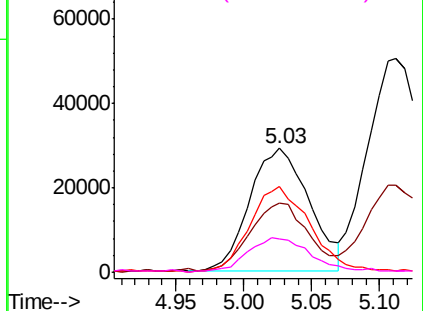
Abundance

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

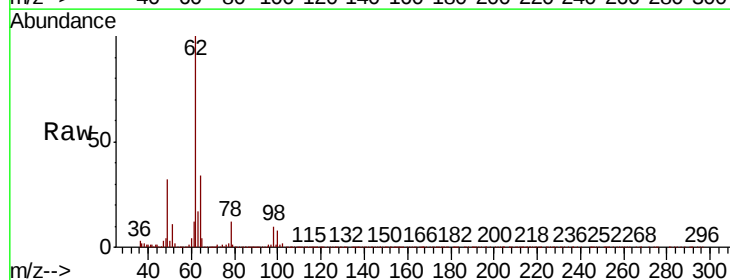
Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#36  
1,2-Dichloroethane  
Concen: 19.176 ug/l  
RT: 6.18 min Scan# 868  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

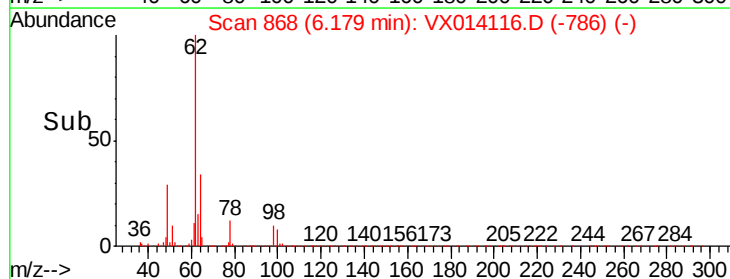
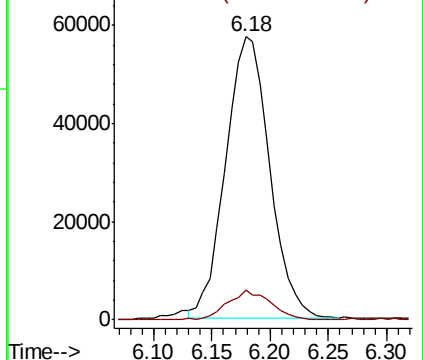
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 150444 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.3  | 8.4   | 12.6   |

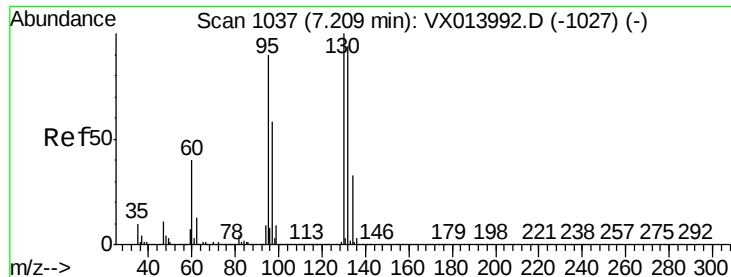


Abundance

Ion 62.00 (61.70 to 62.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

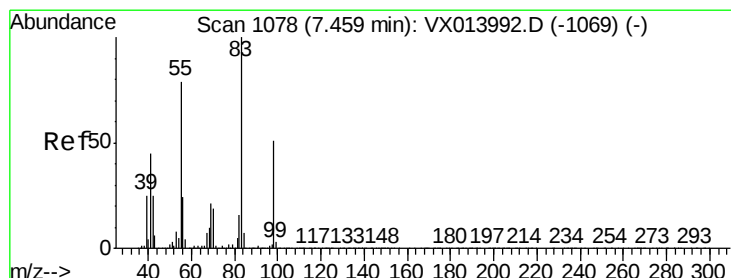
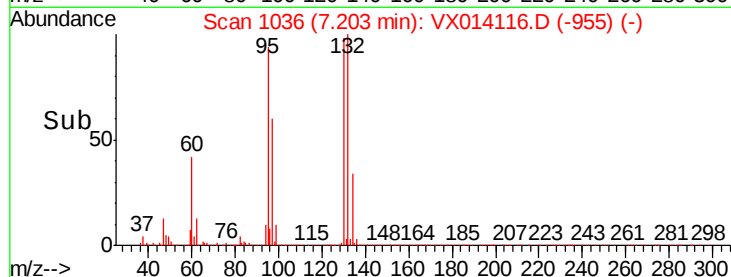
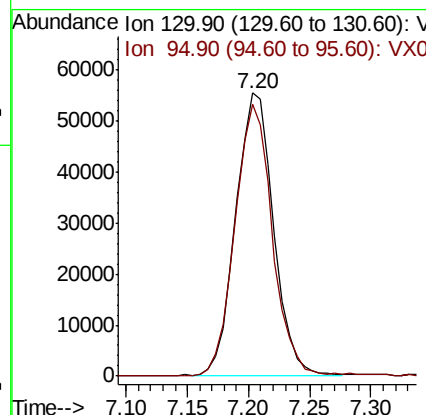
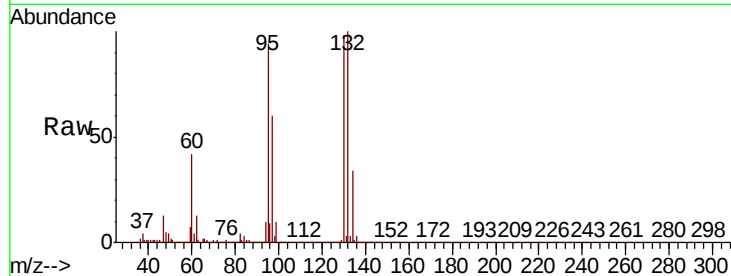




#37  
 Trichloroethene  
 Concen: 19.312 ug/l  
 RT: 7.20 min Scan# 1036  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

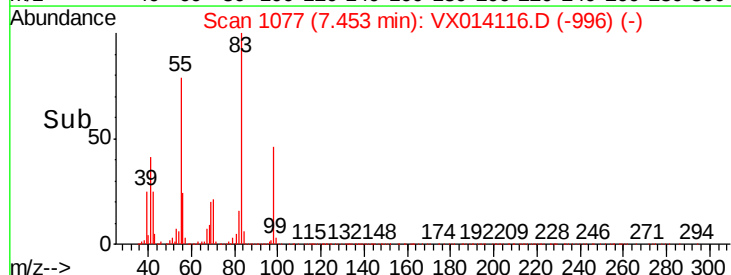
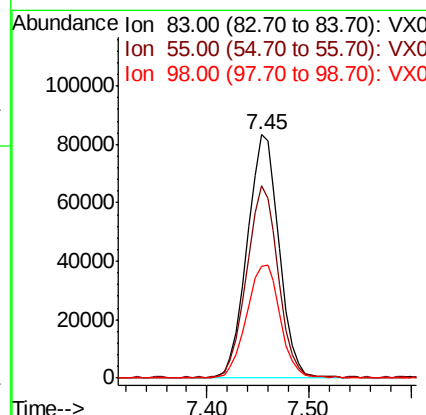
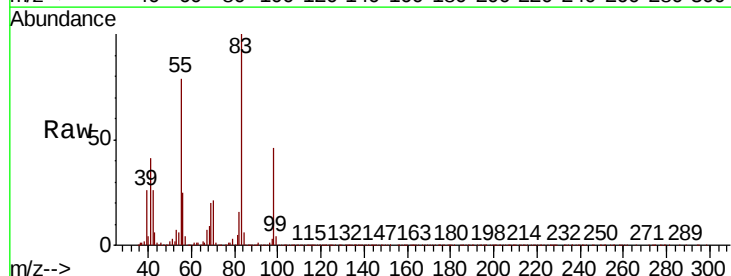
Instrument :  
 MSVOA\_X  
 ClientSampleId :

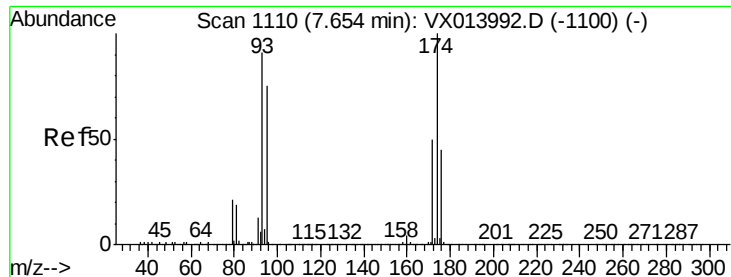
Tot Ion:130 Resp: 118683  
 Ion Ratio Lower Upper  
 130 100  
 95 95.7 71.7 107.5



#38  
 Methylcyclohexane  
 Concen: 21.035 ug/l  
 RT: 7.45 min Scan# 1077  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Tgt Ion: 83 Resp: 181748  
 Ion Ratio Lower Upper  
 83 100  
 55 77.2 39.4 118.1  
 98 48.9 25.1 75.3





#40

Dibromomethane

Concen: 19.777 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampleId :

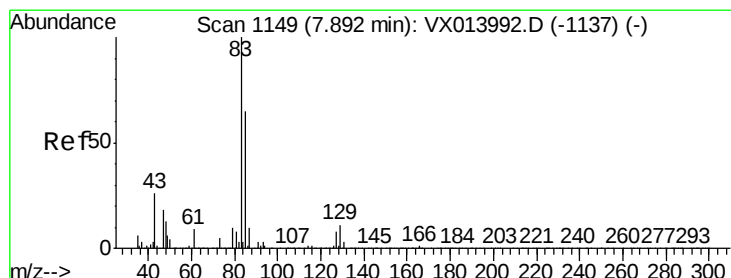
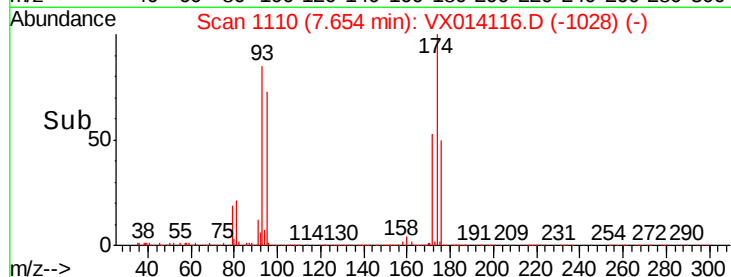
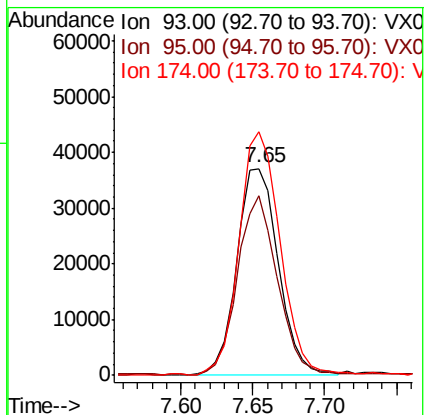
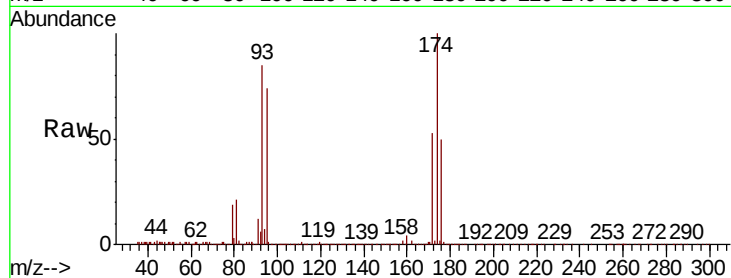
Tot Ion: 93 Resp: 74113

Ion Ratio Lower Upper

93 100

95 82.7 0.0 164.4

174 116.2 0.0 228.8



#41

Bromodichloromethane

Concen: 19.426 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

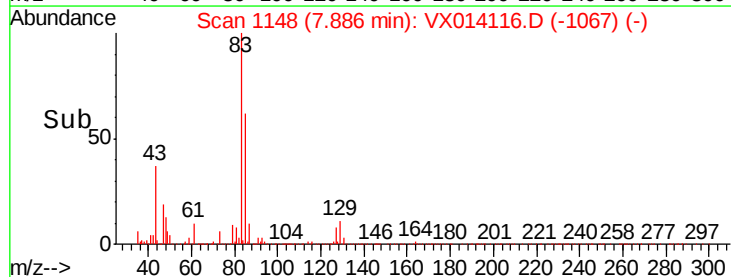
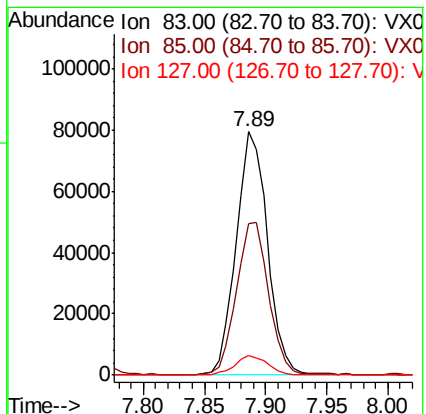
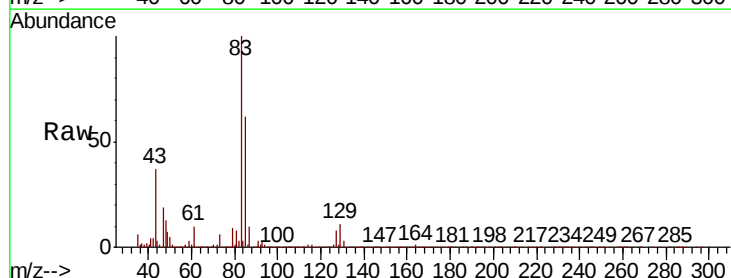
Tgt Ion: 83 Resp: 140956

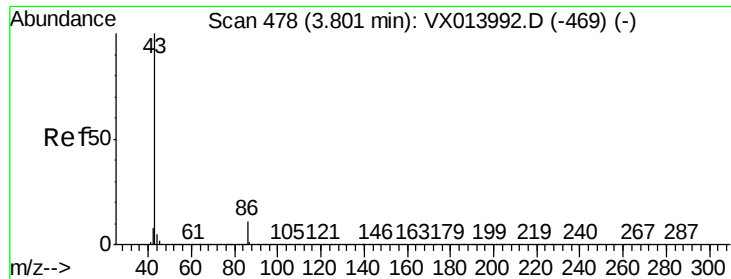
Ion Ratio Lower Upper

83 100

85 62.0 51.6 77.4

127 7.9 6.0 9.0

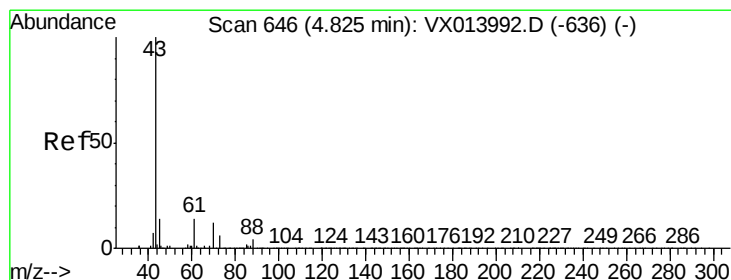
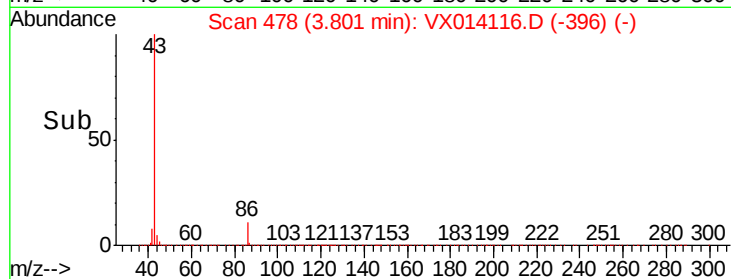
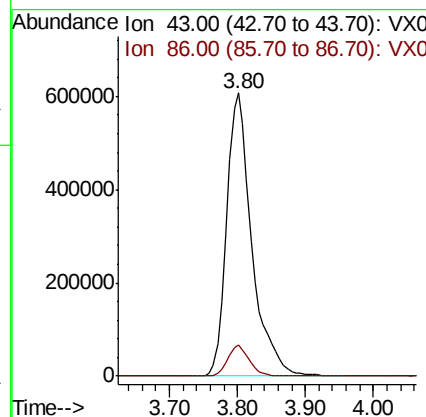
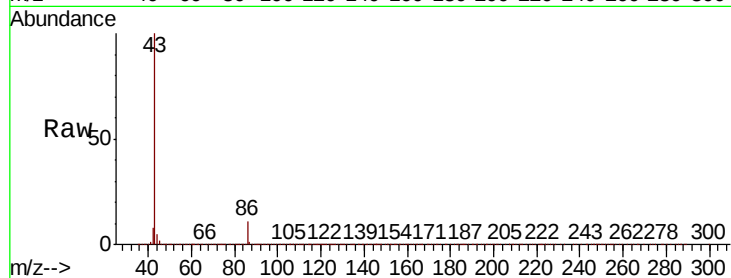




#42  
 Vinyl Acetate  
 Concen: 103.205 ug/l  
 RT: 3.80 min Scan# 478  
 Delta R.T. 0.00 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

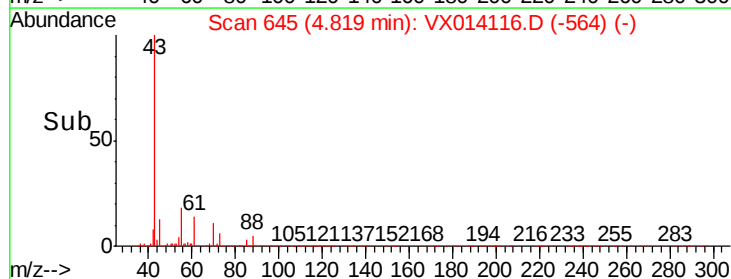
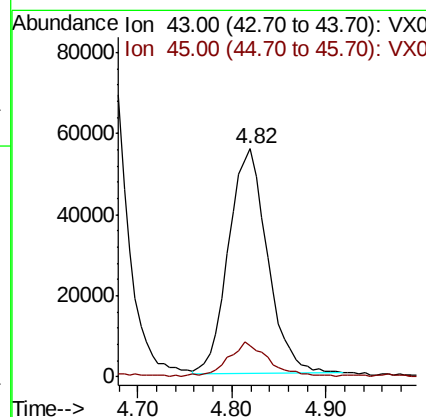
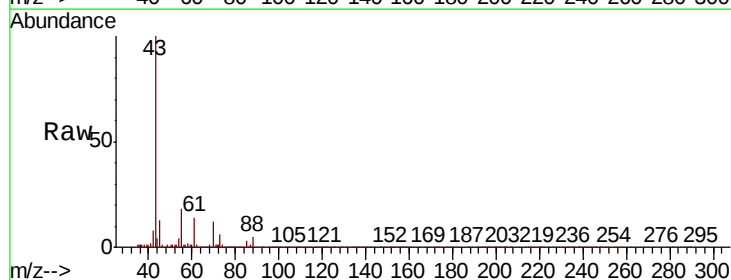
Instrument :  
 MSVOA\_X  
 ClientSampleId :

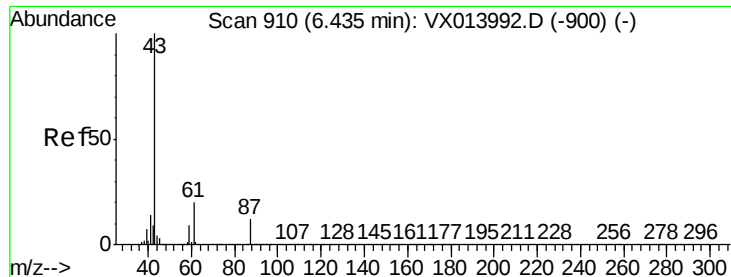
Tot Ion: 43 Resp: 1555652  
 Ion Ratio Lower Upper  
 43 100  
 86 9.4 7.7 11.5



#43  
 Ethyl Acetate  
 Concen: 19.381 ug/l  
 RT: 4.82 min Scan# 645  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Tgt Ion: 43 Resp: 158775  
 Ion Ratio Lower Upper  
 43 100  
 45 14.2 11.8 17.8



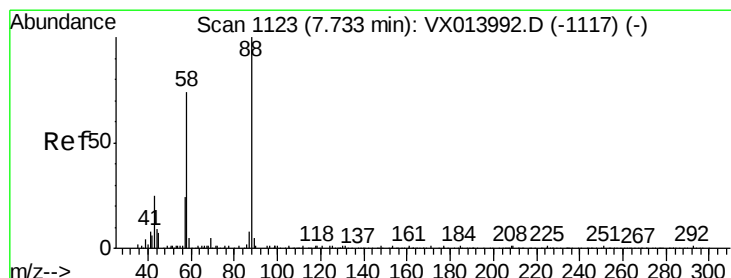
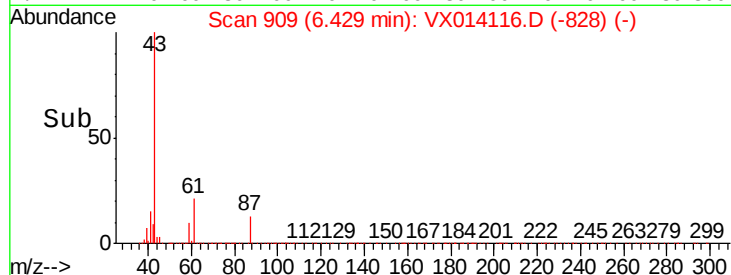
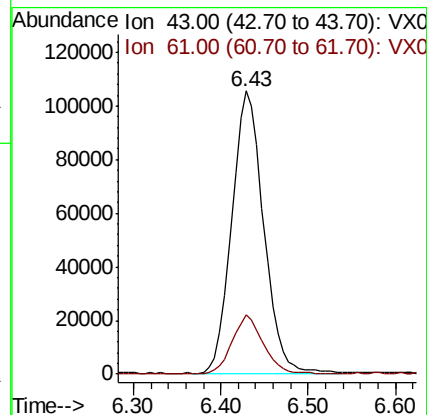
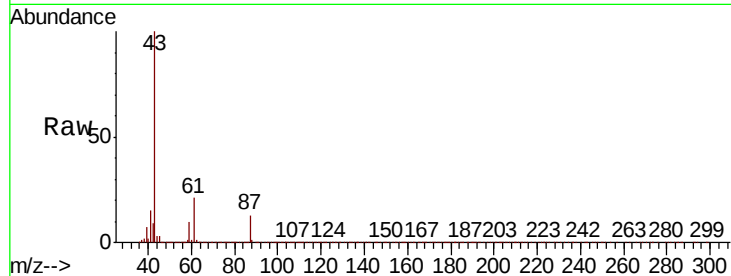


#44

Isopropyl Acetate  
 Concen: 19.469 ug/l  
 RT: 6.43 min Scan# 909  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Instrument :  
 MSVOA\_X  
 ClientSampled :

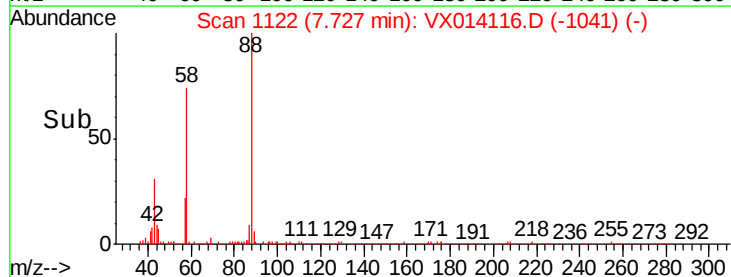
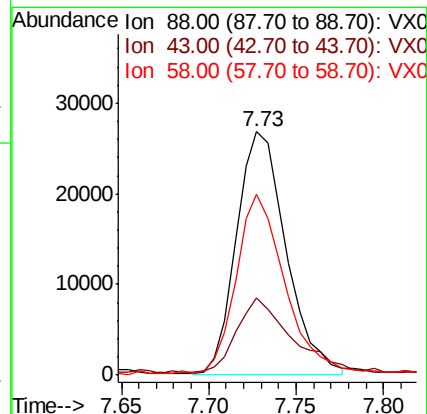
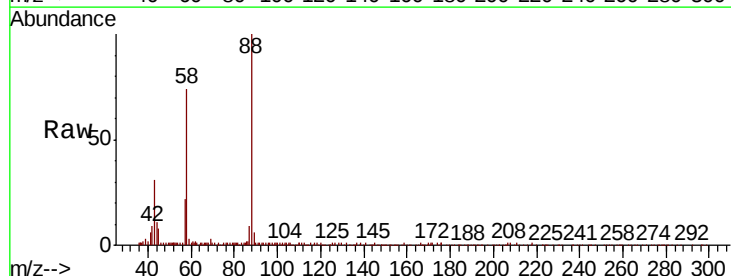
Tot Ion: 43 Resp: 267136  
 Ion Ratio Lower Upper  
 43 100  
 61 20.0 15.9 23.9

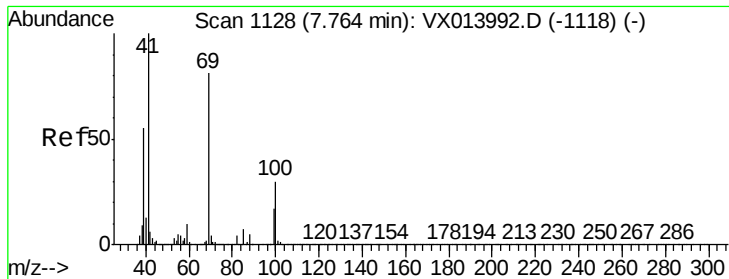


#45

1,4-Dioxane  
 Concen: 408.329 ug/l  
 RT: 7.73 min Scan# 1122  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Tgt Ion: 88 Resp: 52466  
 Ion Ratio Lower Upper  
 88 100  
 43 33.7 25.4 38.2  
 58 72.0 56.5 84.7

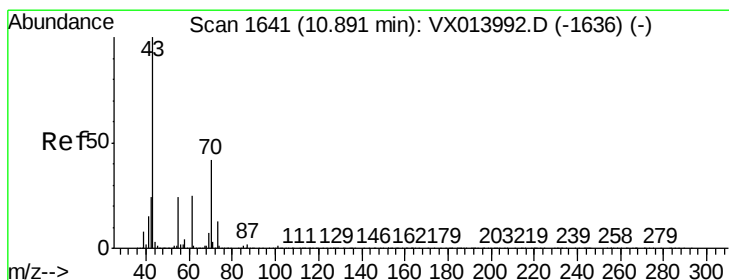
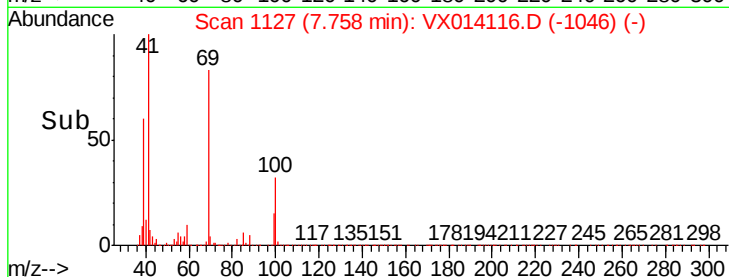
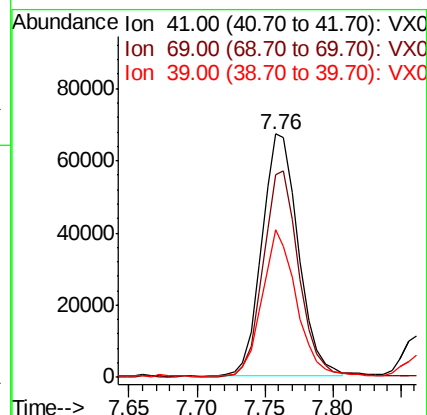
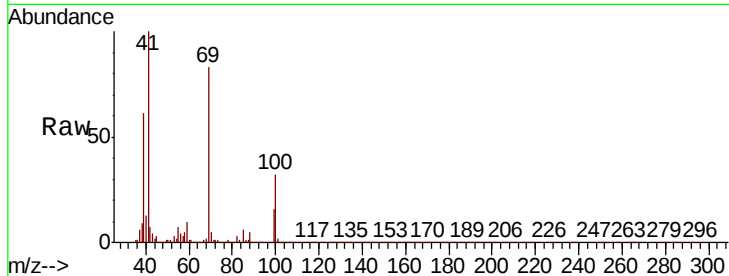




#46  
Methyl methacrylate  
Concen: 18.937 ug/l  
RT: 7.76 min Scan# 1127  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

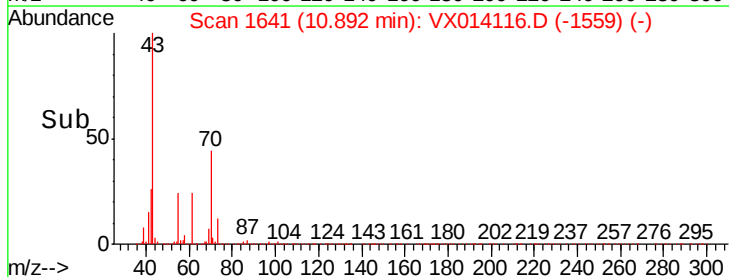
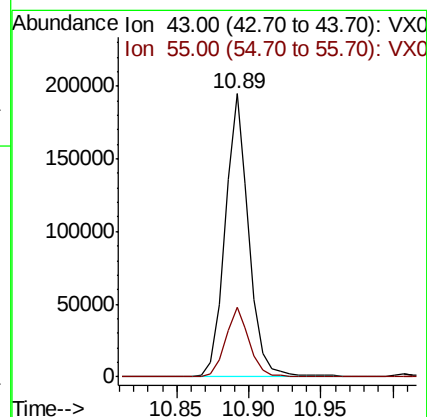
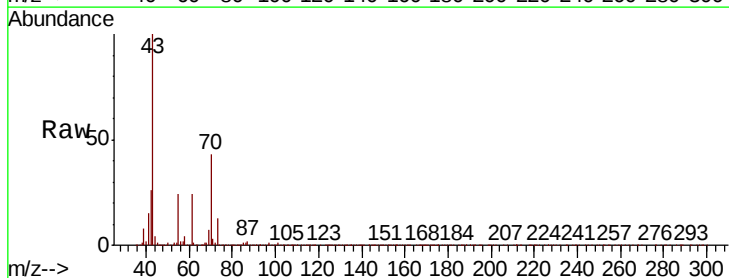
Instrument :  
MSVOA\_X  
ClientSampleId :

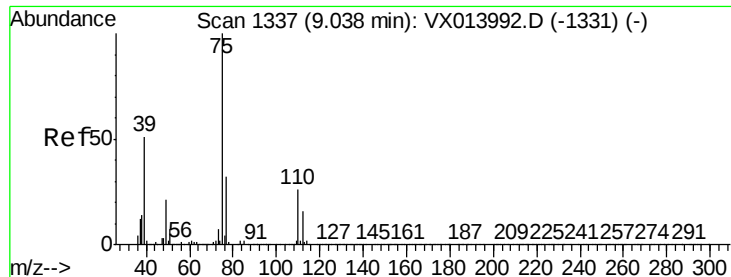
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 83.1  | 40.6  | 122.0 |
| 39      | 60.5  | 27.8  | 83.3  |



#47  
n-ethyl acetate  
Concen: 18.153 ug/l  
RT: 10.89 min Scan# 1641  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 55      | 24.5  | 19.4  | 29.2  |

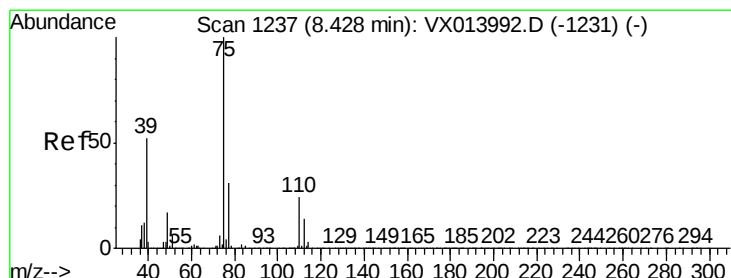
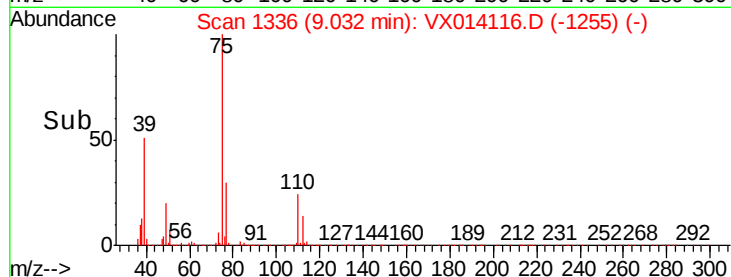
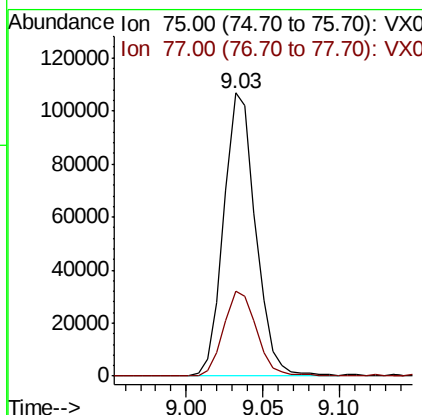
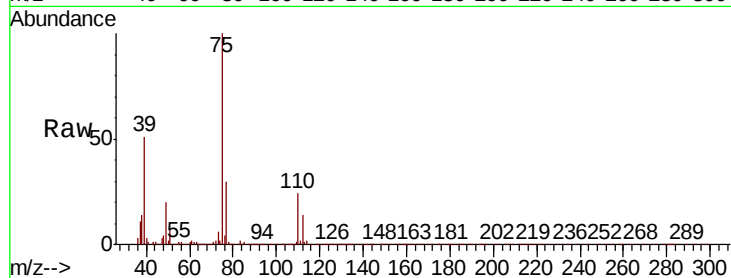




#48  
t-1,3-Dichloropropene  
Concen: 19.413 ug/l  
RT: 9.03 min Scan# 1336  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

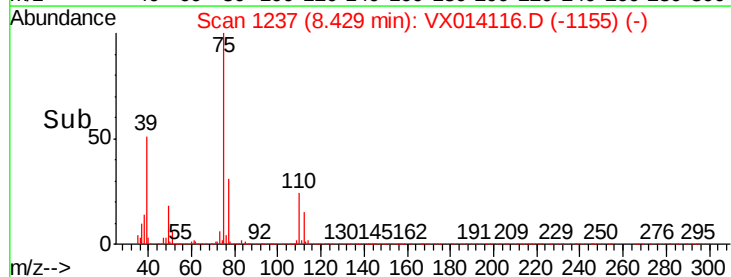
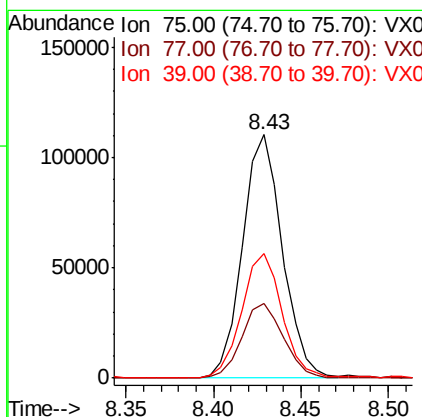
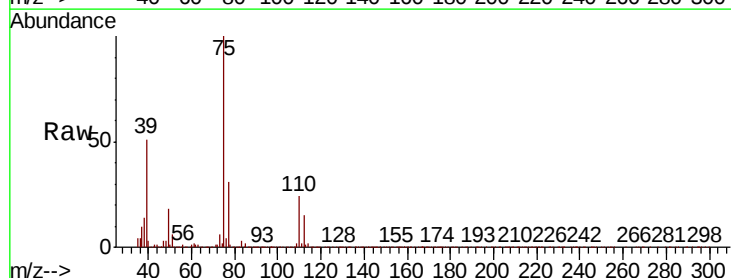
Instrument :  
MSVOA\_X  
ClientSampleId :

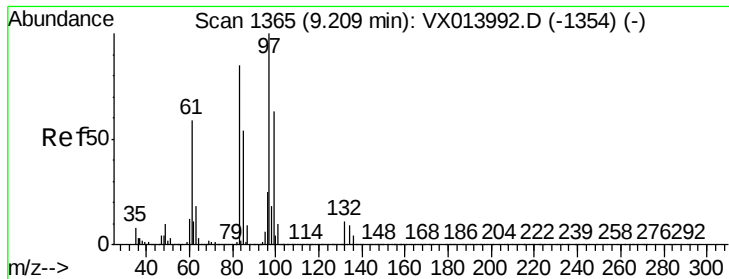
Tot Ion: 75 Resp: 153742  
Ion Ratio Lower Upper  
75 100  
77 29.8 26.0 39.0



#49  
cis-1,3-Dichloropropene  
Concen: 19.556 ug/l  
RT: 8.43 min Scan# 1237  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion: 75 Resp: 174170  
Ion Ratio Lower Upper  
75 100  
77 30.3 24.8 37.2  
39 50.9 41.1 61.7

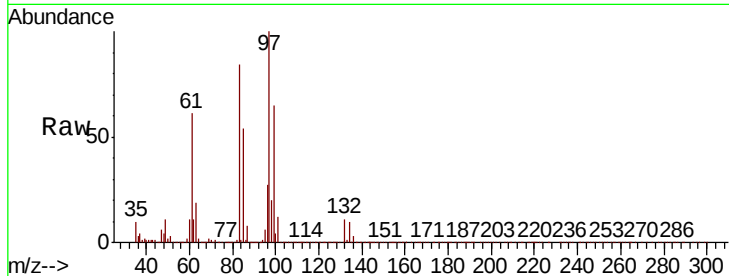




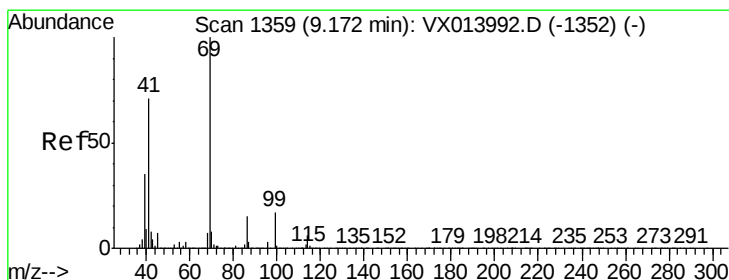
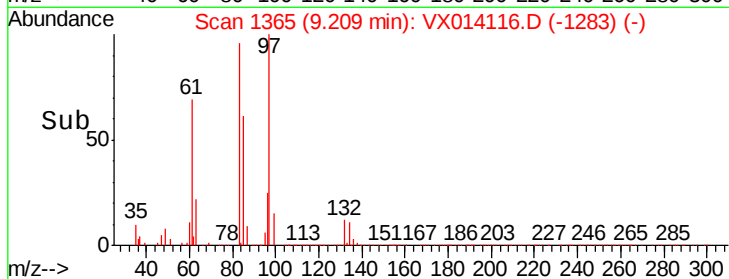
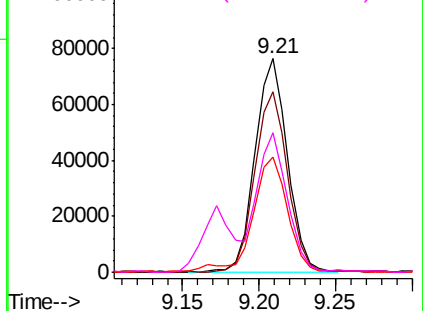
#50  
 1,1,2-Trichloroethane  
 Concen: 19.450 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. 0.00 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Instrument :  
 MSVOA\_X  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 112488 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.1  | 68.1  | 102.1  |
| 85       | 53.7  | 42.7  | 64.1   |
| 99       | 64.3  | 50.3  | 75.5   |

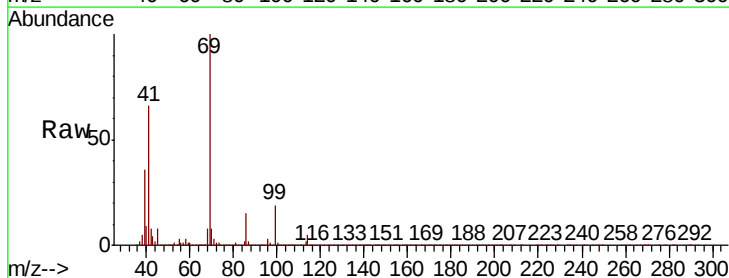


Abundance Ion 97.00 (96.70 to 97.70): VX0  
 Ion 82.95 (82.65 to 83.65): VX0  
 Ion 84.95 (84.65 to 85.65): VX0  
 Ion 98.95 (98.65 to 99.65): VX0

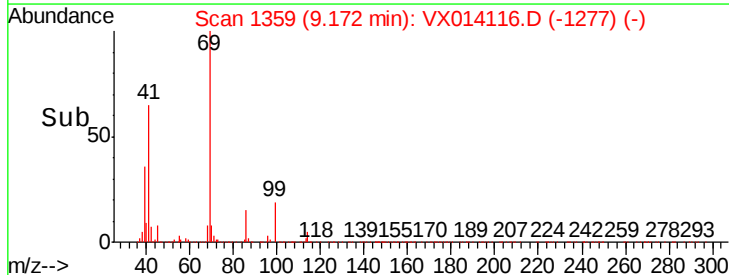
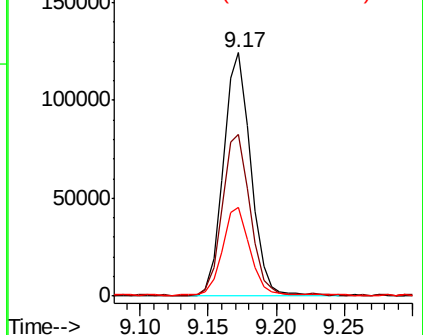


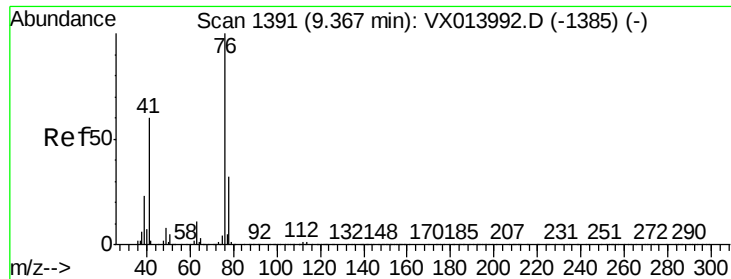
#51  
 Ethyl methacrylate  
 Concen: 18.834 ug/l  
 RT: 9.17 min Scan# 1359  
 Delta R.T. 0.00 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 173254 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 66.3  | 35.4  | 106.1  |
| 39       | 36.1  | 17.8  | 53.3   |



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





#52

1,3-Dichloropropane

Concen: 19.367 ug/l

RT: 9.36 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

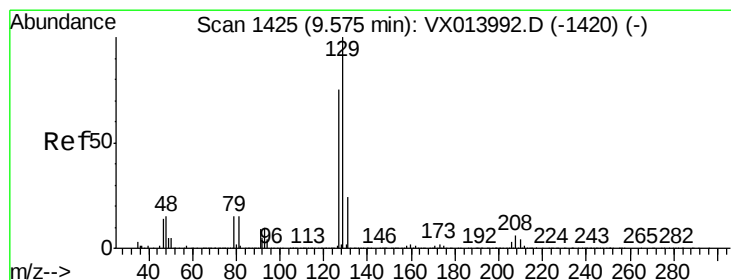
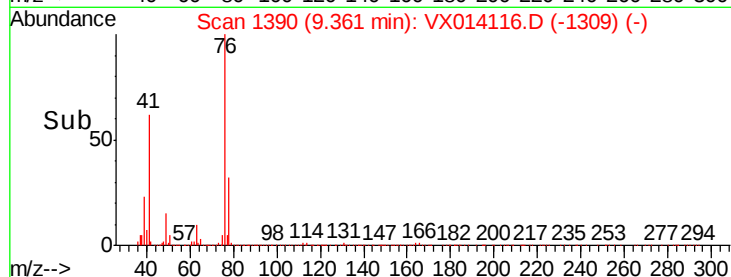
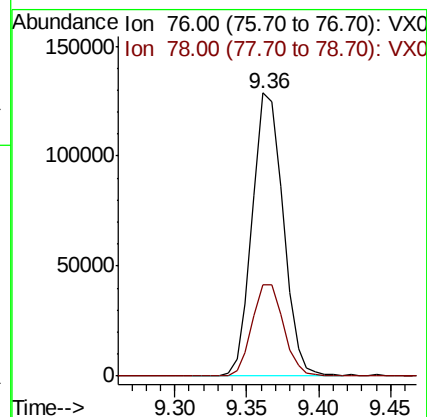
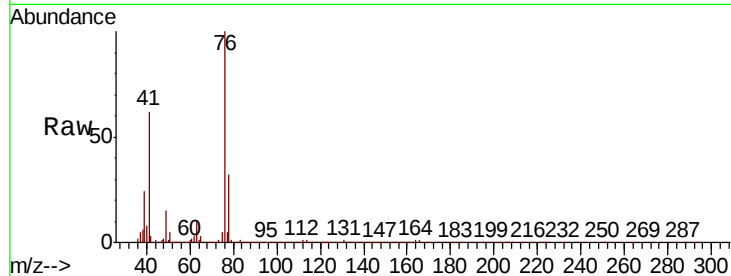
ClientSampleId :

Tot Ion: 76 Resp: 190298

Ion Ratio Lower Upper

76 100

78 33.2 0.0 63.4



#53

Dibromochloromethane

Concen: 19.265 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. 0.00 min

Lab File: VX014116.D

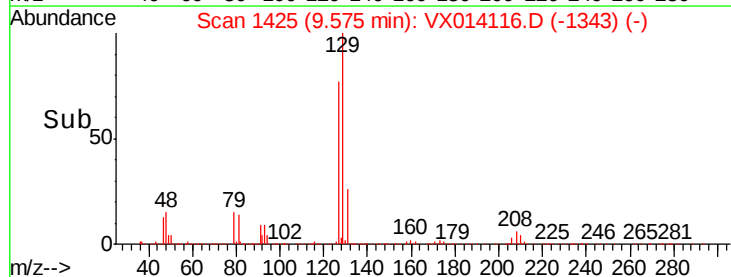
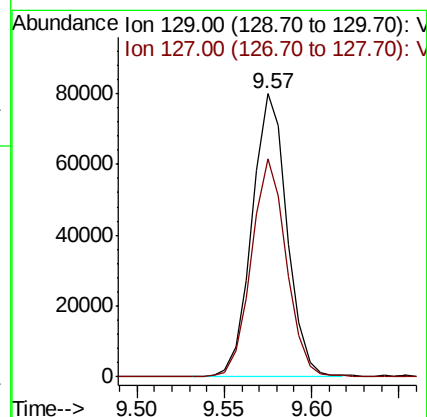
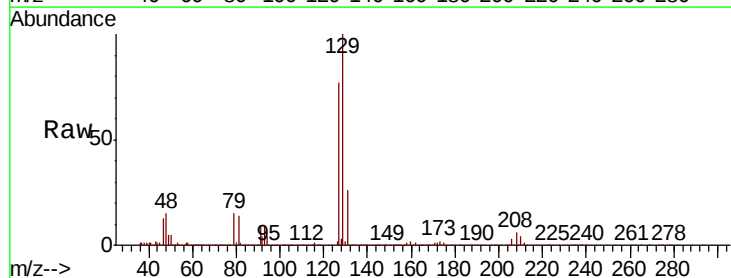
Acq: 19 Dec 2019 13:04

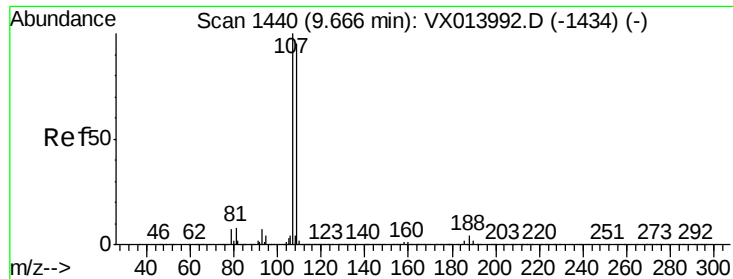
Tgt Ion: 129 Resp: 111410

Ion Ratio Lower Upper

129 100

127 77.3 39.1 117.5

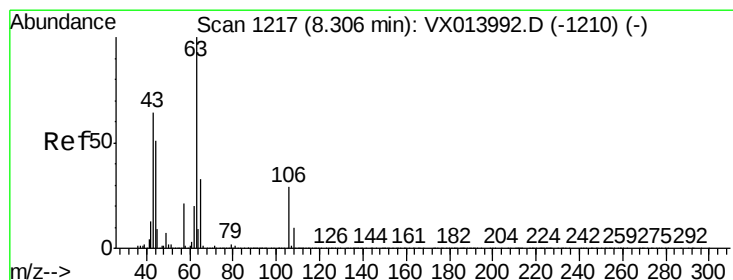
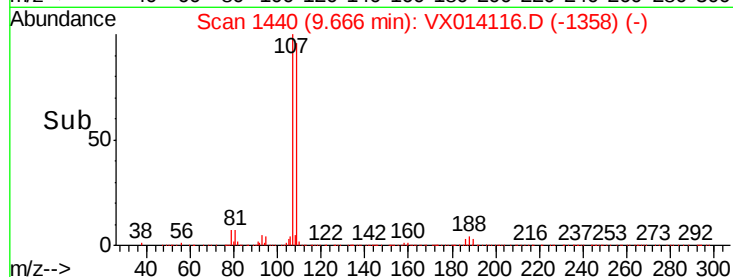
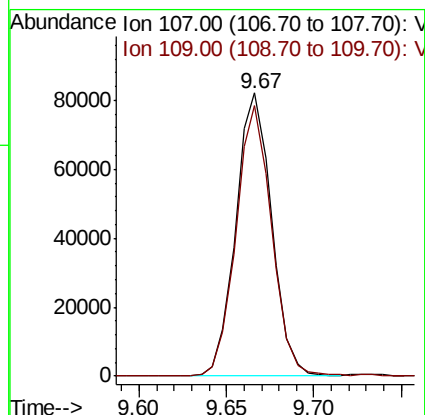
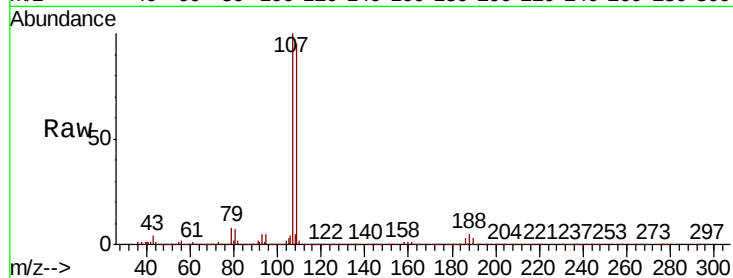




#54  
 1,2-Dibromoethane  
 Concen: 19.585 ug/l  
 RT: 9.67 min Scan# 1440  
 Delta R.T. 0.00 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

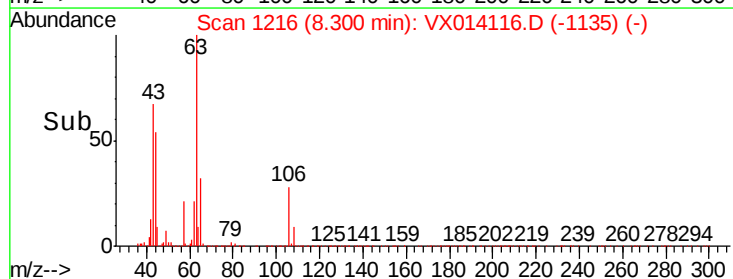
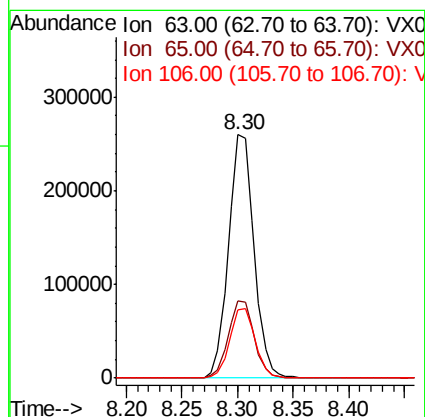
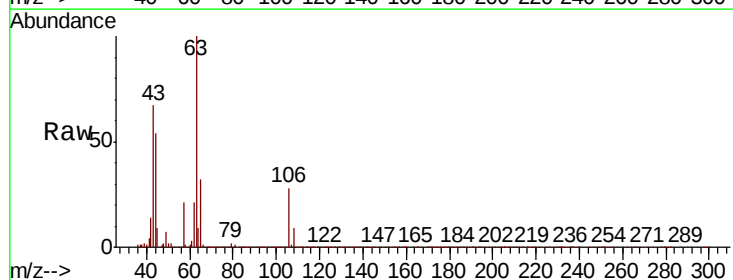
Instrument :  
 MSVOA\_X  
 ClientSampleId :

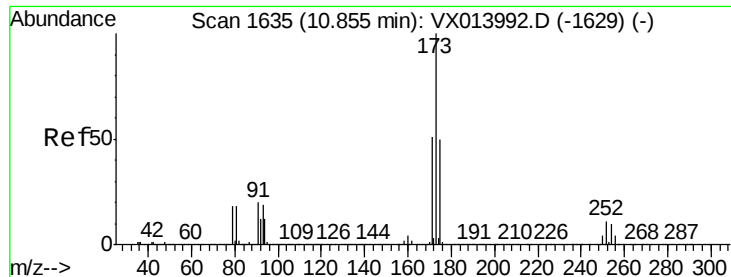
Tot Ion:107 Resp: 116622  
 Ion Ratio Lower Upper  
 107 100  
 109 94.4 77.2 115.8



#55  
 2-Chloroethyl vinyl ether  
 Concen: 101.880 ug/l  
 RT: 8.30 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Tgt Ion: 63 Resp: 413137  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 25.8 38.6  
 106 28.5 22.9 34.3

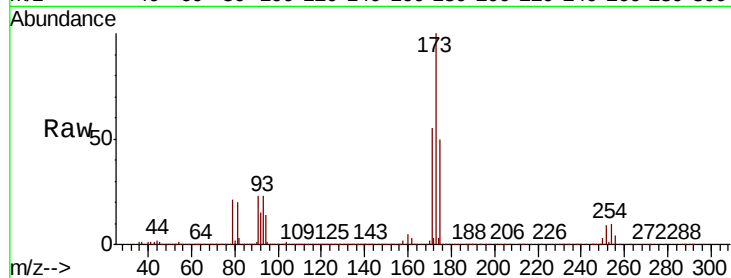




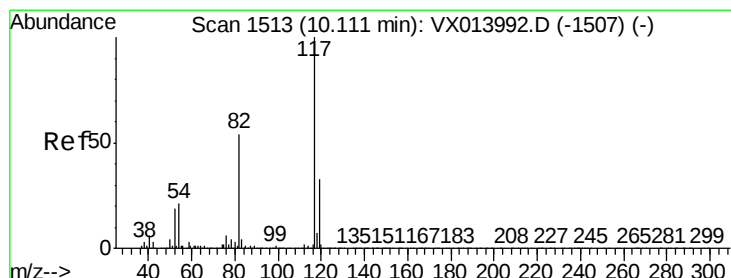
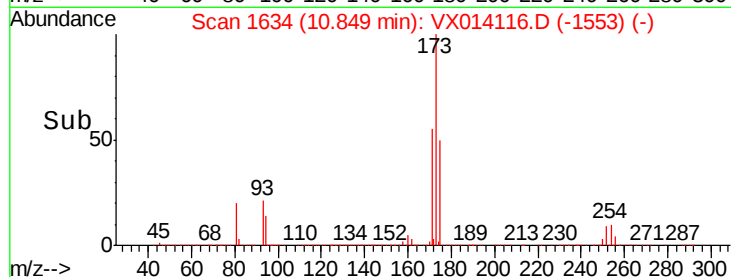
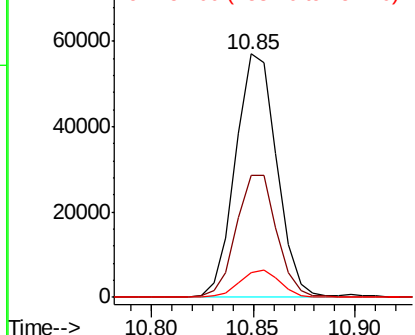
#56  
Bromoform  
Concen: 17.788 ug/l  
RT: 10.85 min Scan# 1634  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.7  | 39.5  | 59.3  |
| 254     | 11.0  | 8.2   | 12.4  |

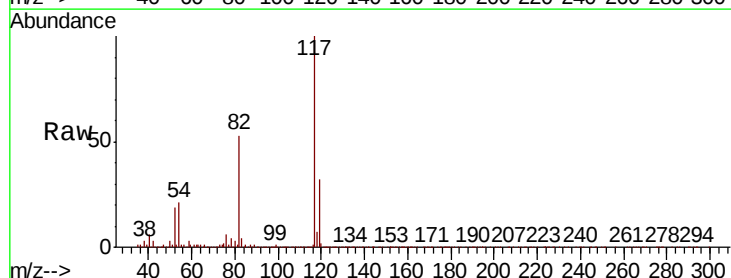


Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V

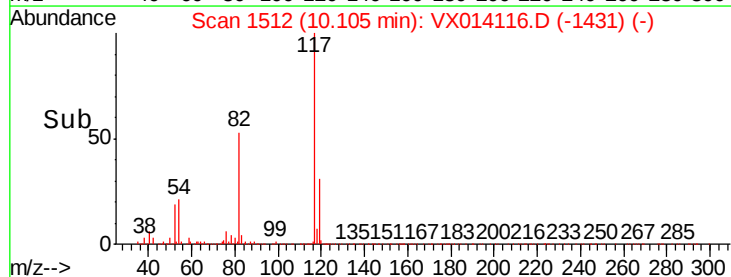
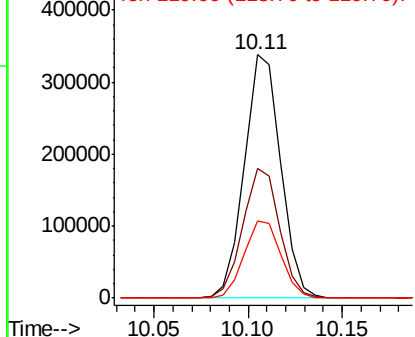


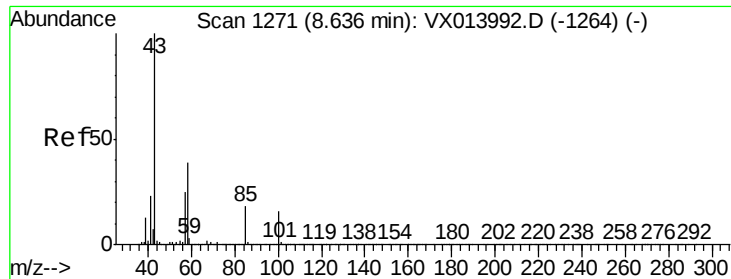
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 43.8  | 65.6  |
| 119     | 32.5  | 25.8  | 38.6  |



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 119.00 (118.70 to 119.70): V

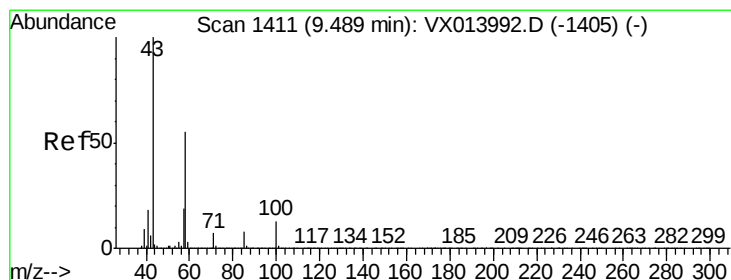
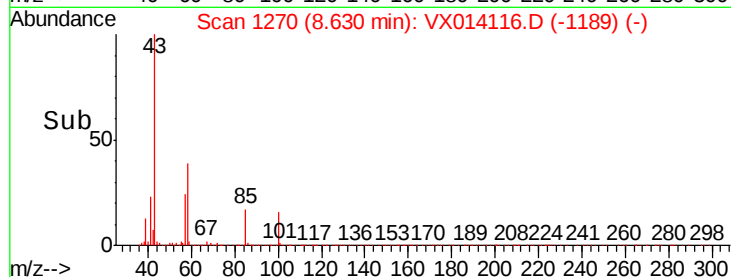
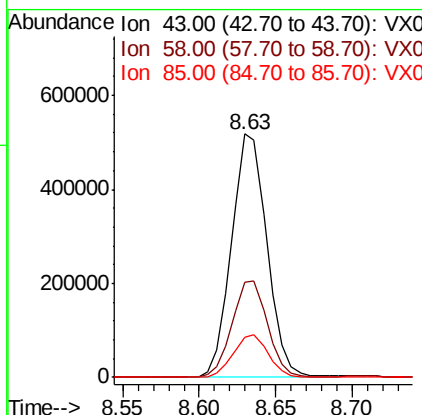
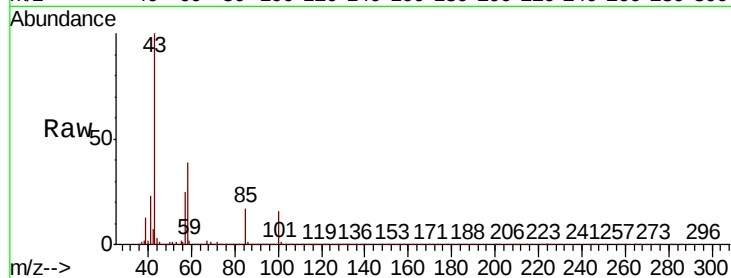




#58  
 4-Methyl-2-Pentanone  
 Concen: 98.236 ug/l  
 RT: 8.63 min Scan# 1270  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

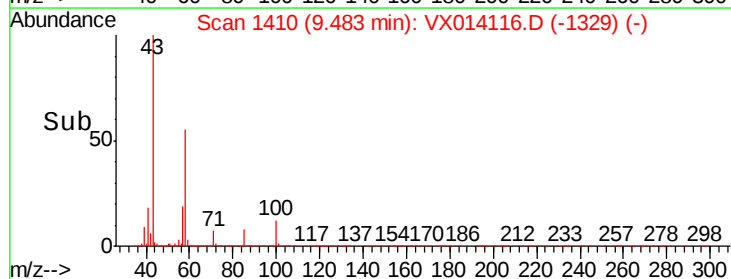
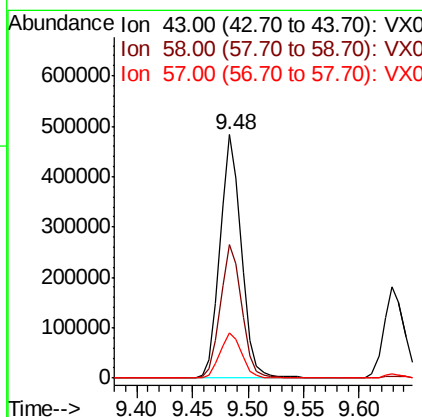
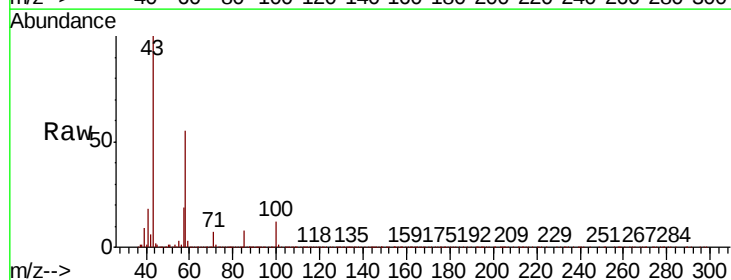
Instrument :  
 MSVOA\_X  
 ClientSampleId :

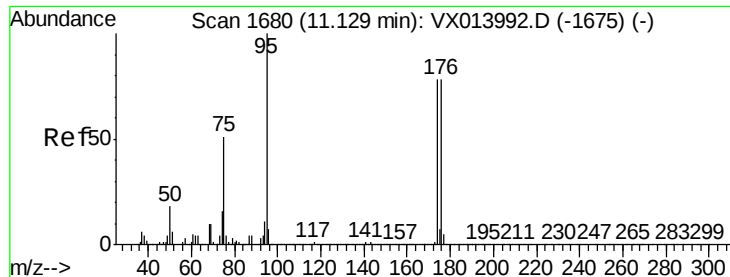
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 831409 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 39.6  | 31.2  | 46.8   |
| 85       | 17.4  | 14.2  | 21.2   |



#59  
 2-Hexanone  
 Concen: 99.725 ug/l  
 RT: 9.48 min Scan# 1410  
 Delta R.T. -0.01 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 640512 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 54.9  | 43.8  | 65.6   |
| 57       | 18.9  | 15.4  | 23.0   |

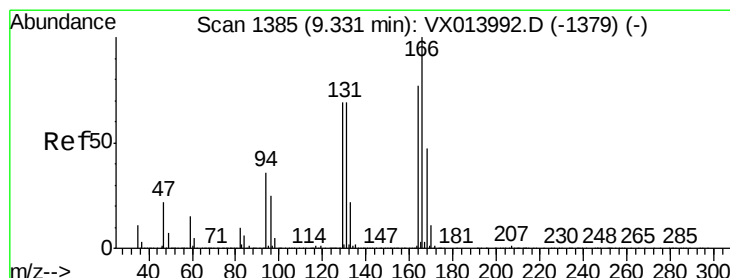
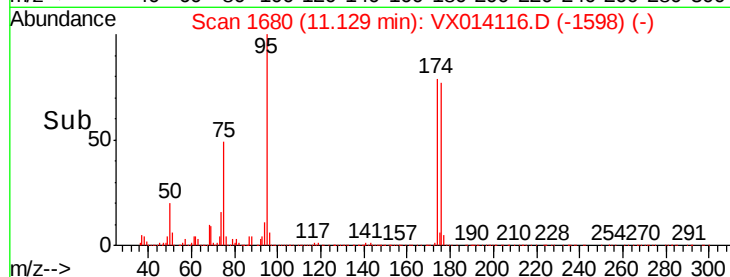
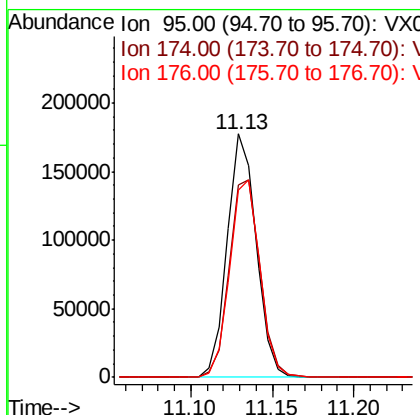
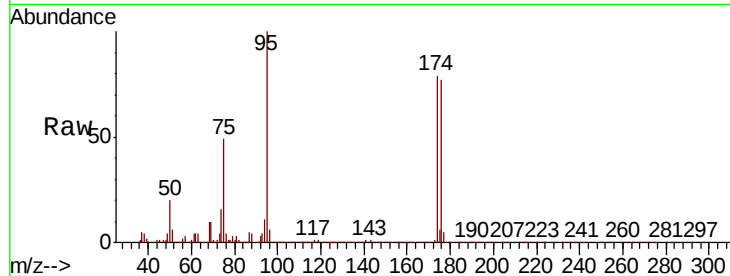




#60  
4-Bromofluorobenzene  
Concen: 29.980 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

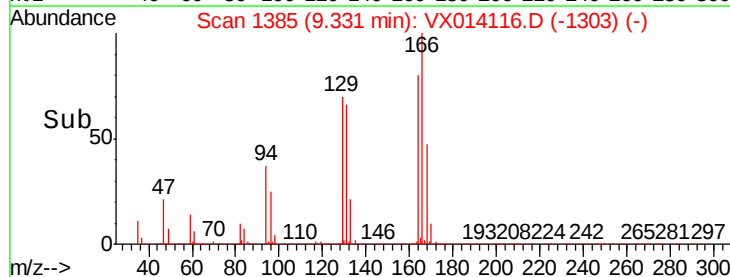
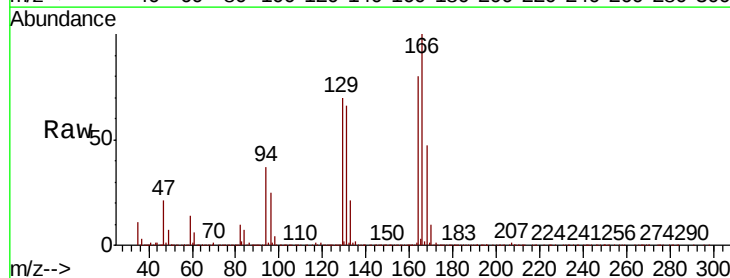
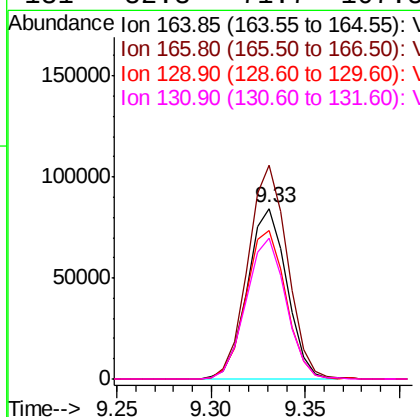
Instrument :  
MSVOA\_X  
ClientSampleId :

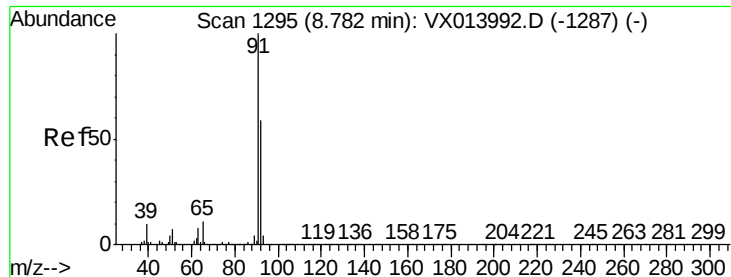
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 86.3  | 70.2  | 105.2 |
| 176     | 84.2  | 68.3  | 102.5 |



#61  
Tetrachloroethene  
Concen: 20.423 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 125.4 | 104.2 | 156.2 |
| 129     | 87.3  | 71.6  | 107.4 |
| 131     | 82.3  | 71.7  | 107.5 |





#62

Toluene

Concen: 19.885 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

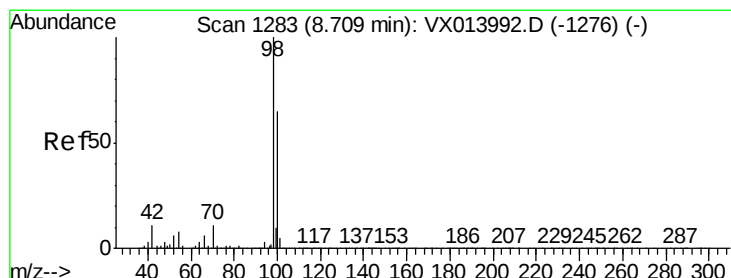
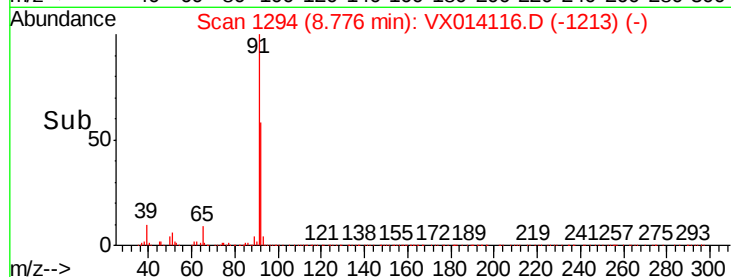
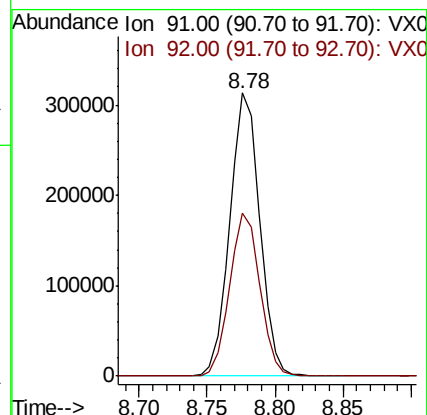
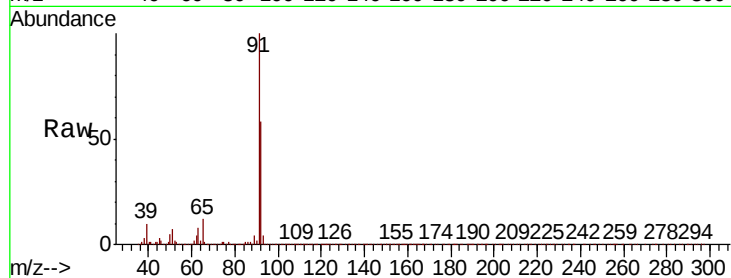
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 91 Resp: 478380

Ion Ratio Lower Upper

91 100

92 58.2 46.4 69.6



#63

Toluene-d8

Concen: 30.471 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014116.D

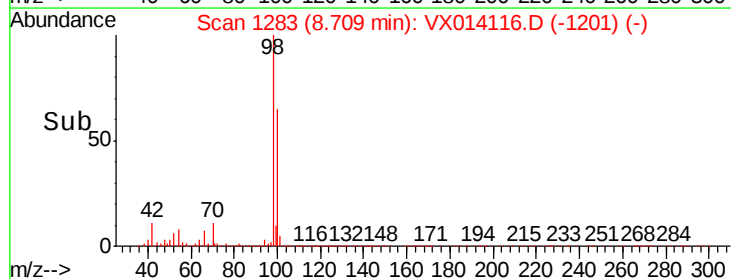
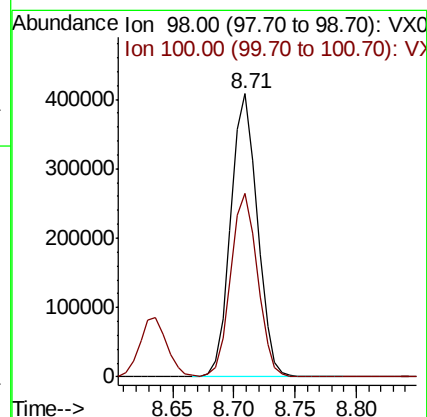
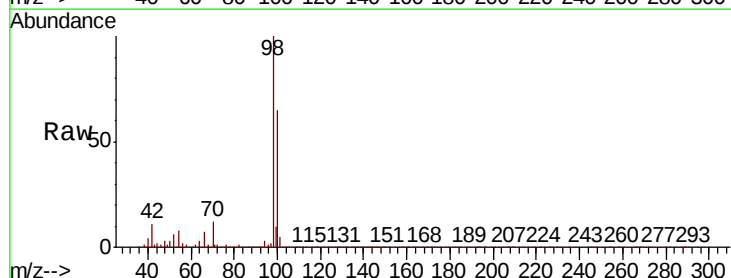
Acq: 19 Dec 2019 13:04

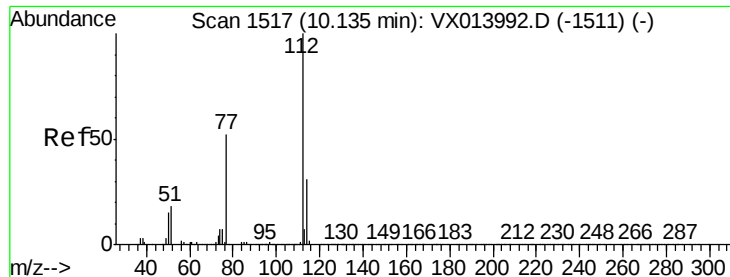
Tgt Ion: 98 Resp: 616089

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2





#64

Chlorobenzene

Concen: 19.627 ug/l

RT: 10.13 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

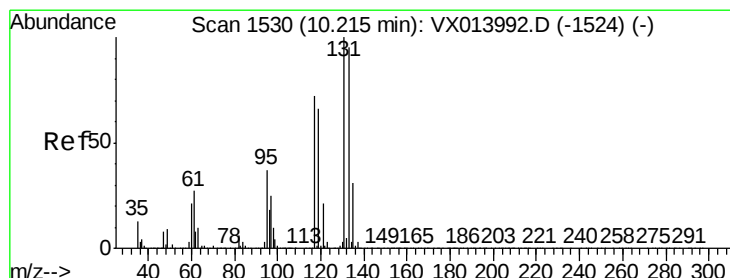
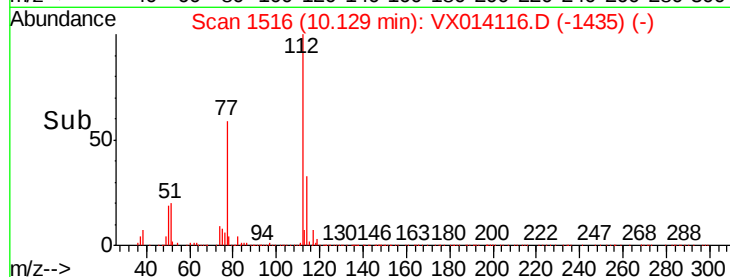
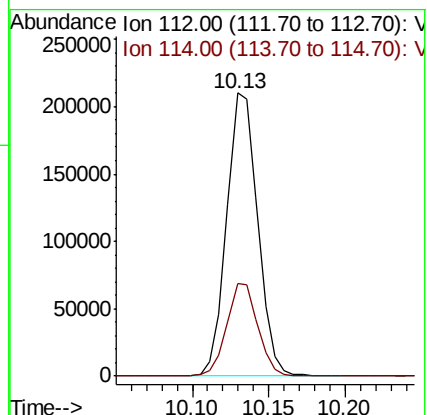
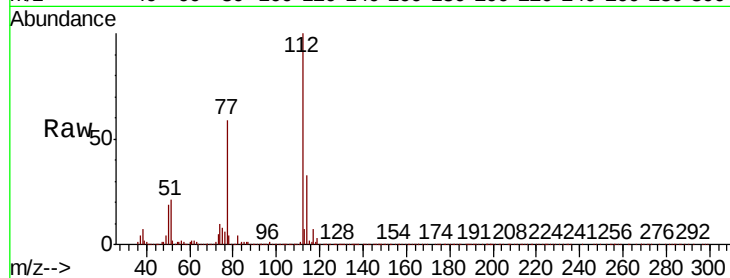
ClientSampleId :

Tot Ion:112 Resp: 295816

Ion Ratio Lower Upper

112 100

114 32.7 24.4 36.6



#65

1,1,1,2-Tetrachloroethane

Concen: 19.312 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

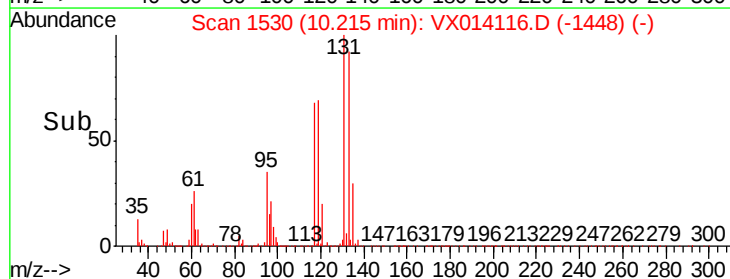
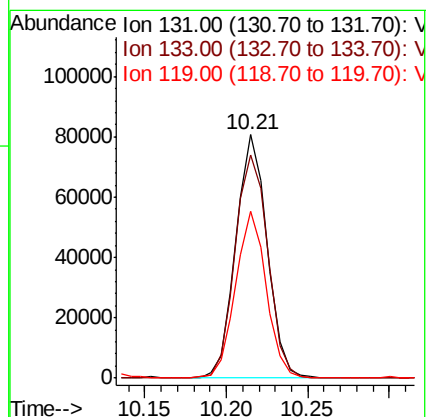
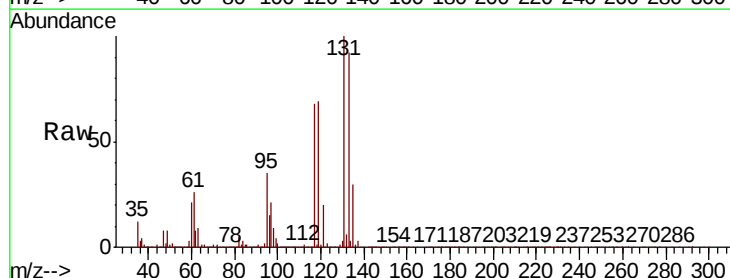
Tgt Ion:131 Resp: 107778

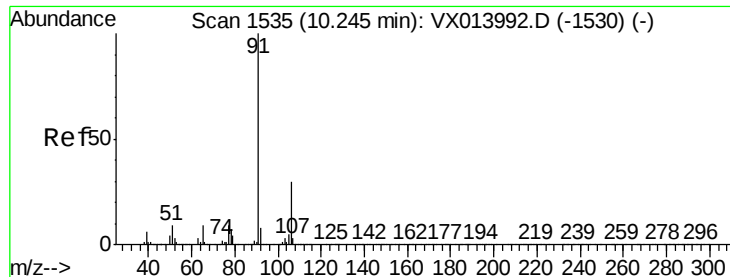
Ion Ratio Lower Upper

131 100

133 96.2 0.0 189.8

119 66.9 0.0 132.2





#66

Ethyl Benzene

Concen: 19.839 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

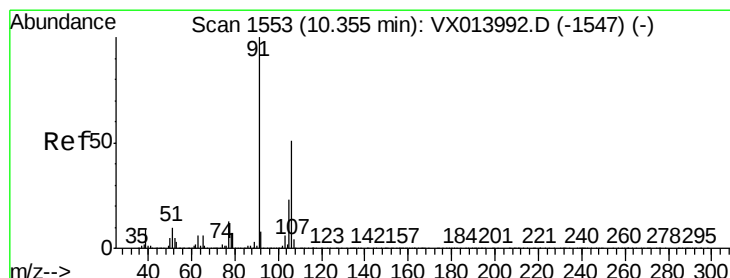
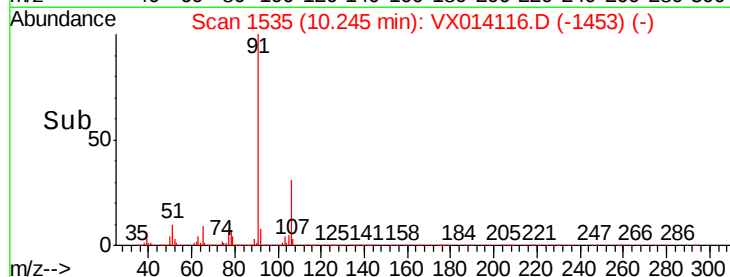
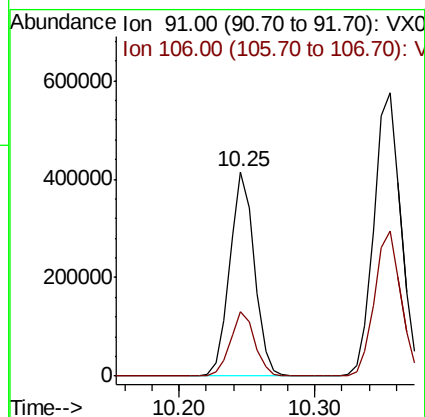
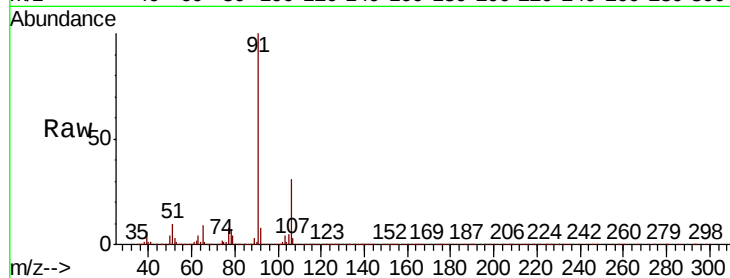
ClientSampleId :

Tot Ion: 91 Resp: 522316

Ion Ratio Lower Upper

91 100

106 31.3 24.2 36.2



#67

m/p-Xylenes

Concen: 39.617 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014116.D

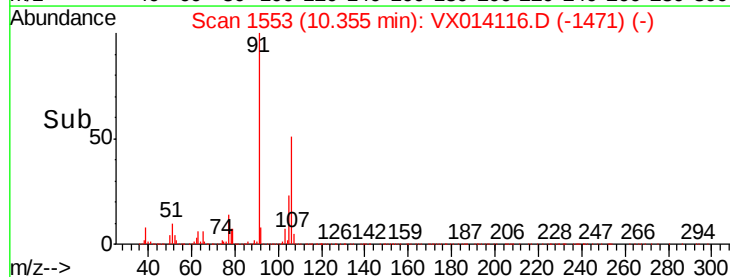
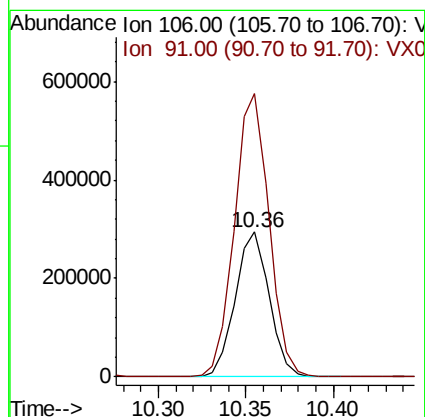
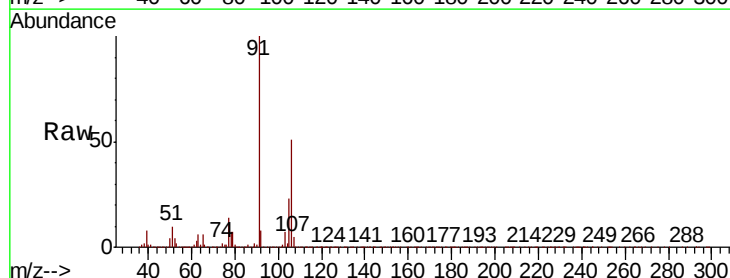
Acq: 19 Dec 2019 13:04

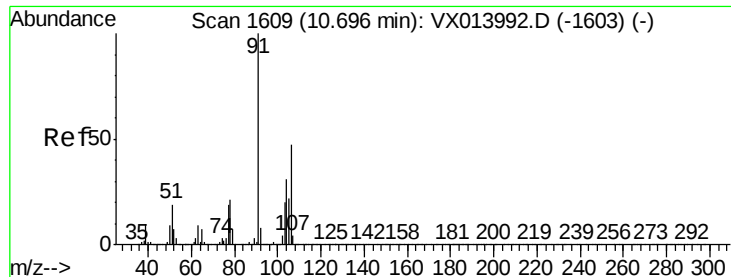
Tgt Ion: 106 Resp: 398718

Ion Ratio Lower Upper

106 100

91 197.6 159.3 238.9

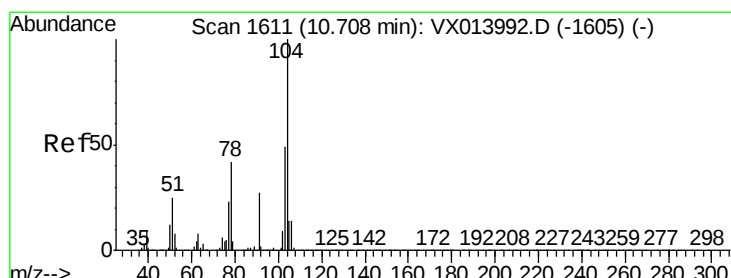
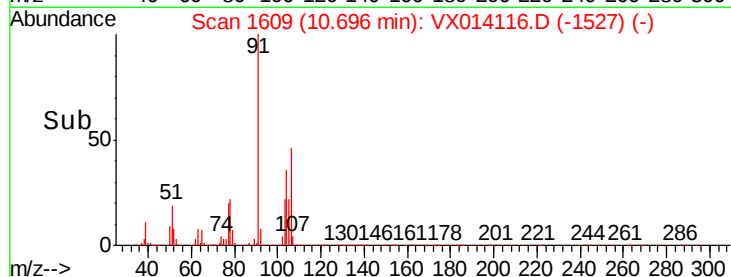
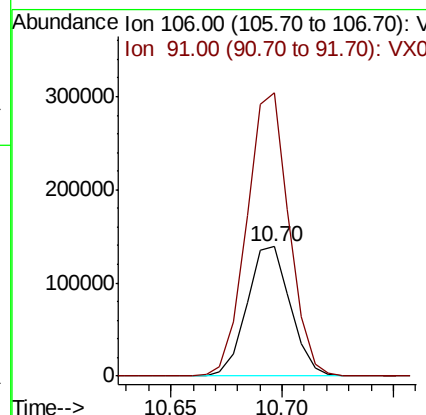
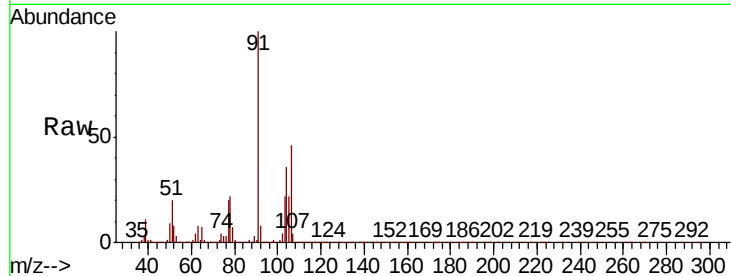




#68  
o-Xylene  
Concen: 18.917 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

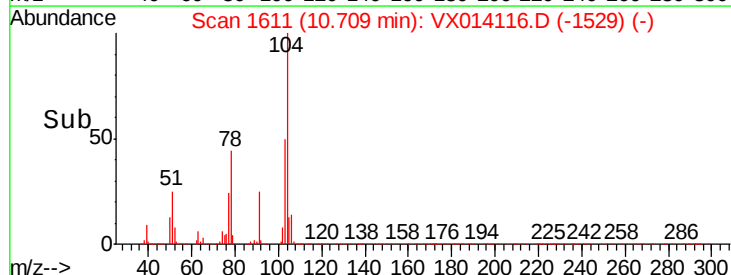
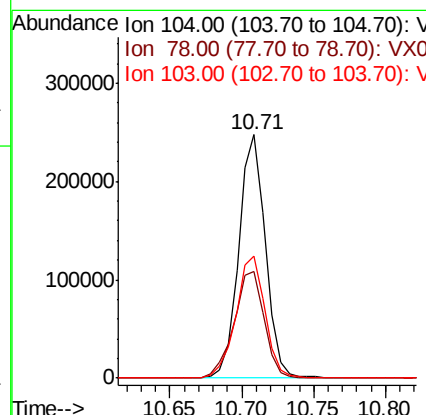
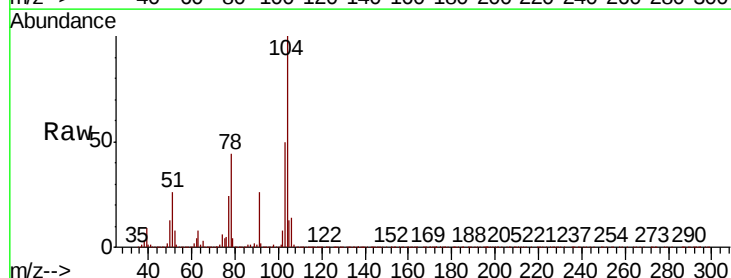
Instrument :  
MSVOA\_X  
ClientSampled :

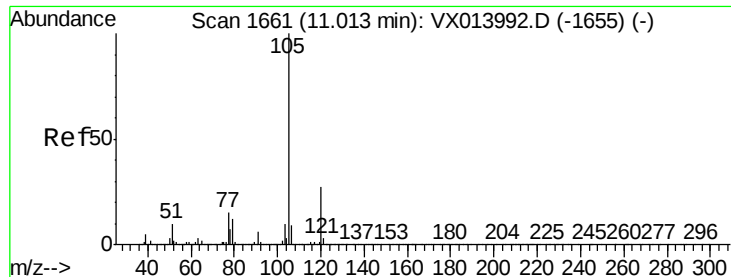
Tot Ion:106 Resp: 188612  
Ion Ratio Lower Upper  
106 100  
91 212.2 104.8 314.6



#69  
Styrene  
Concen: 18.828 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion:104 Resp: 319227  
Ion Ratio Lower Upper  
104 100  
78 49.5 38.9 58.3  
103 55.0 44.2 66.2





#70

Isopropylbenzene

Concen: 19.735 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

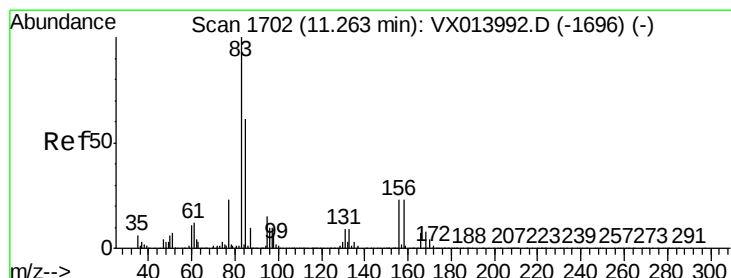
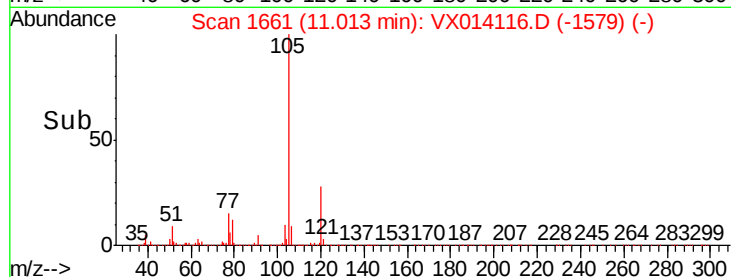
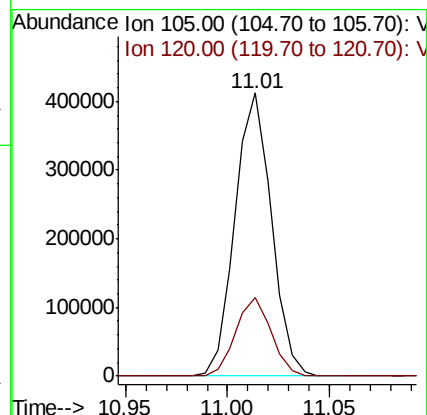
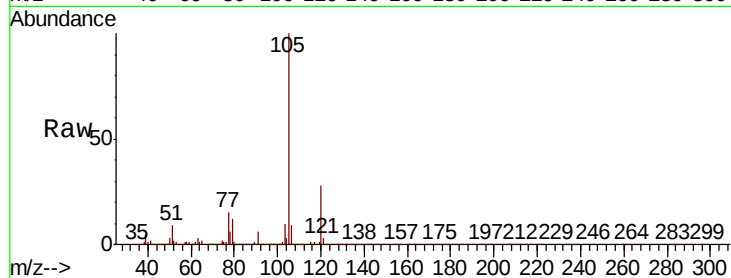
ClientSampleId :

Tot Ion:105 Resp: 508475

Ion Ratio Lower Upper

105 100

120 27.2 19.1 35.5



#71

1,1,2,2-Tetrachloroethane

Concen: 18.855 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

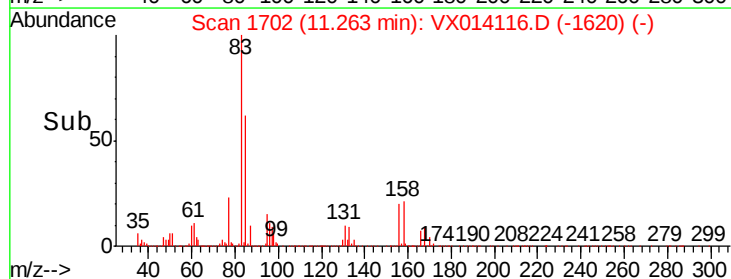
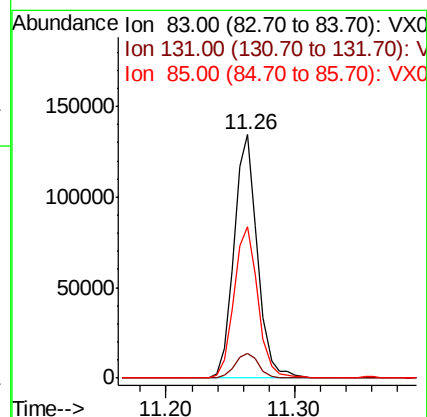
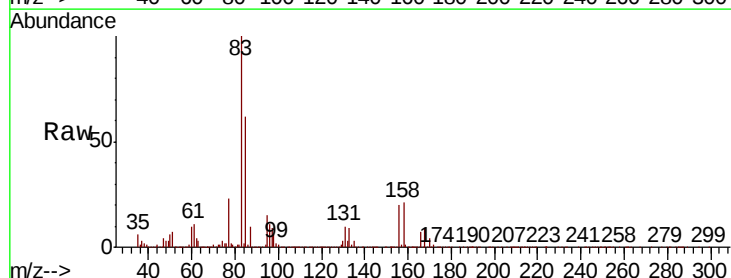
Tgt Ion: 83 Resp: 172277

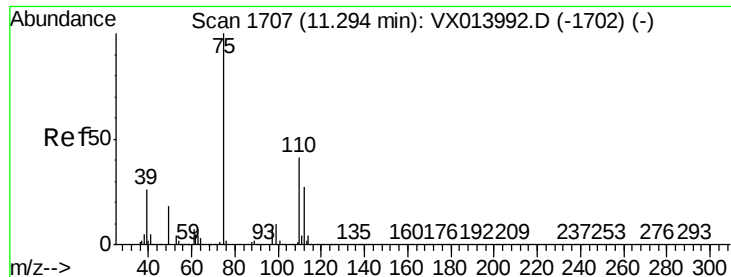
Ion Ratio Lower Upper

83 100

131 10.5 4.9 14.7

85 63.5 31.6 94.7





#72

1,2,3-Trichloropropane

Concen: 23.381 ug/l

RT: 11.29 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

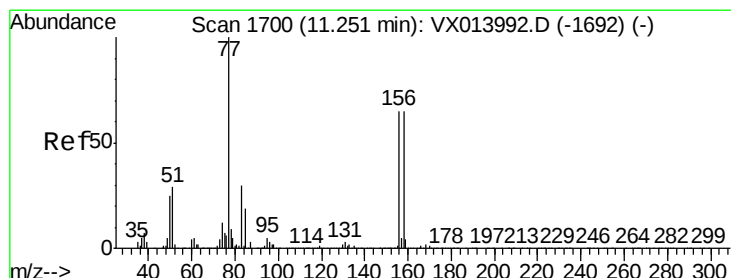
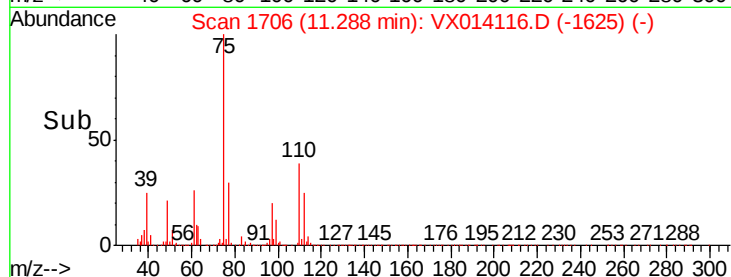
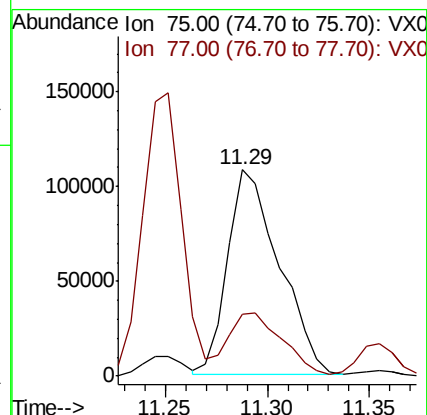
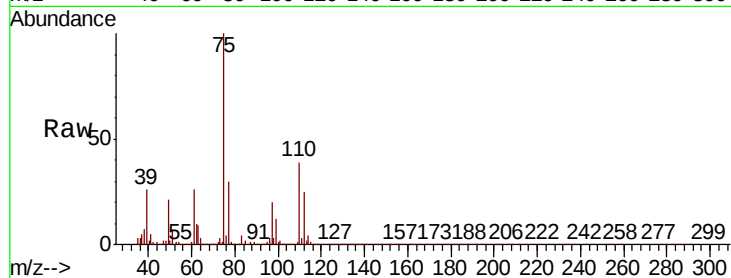
ClientSampleId :

Tot Ion: 75 Resp: 190157

Ion Ratio Lower Upper

75 100

77 30.9 0.0 68.4



#73

Bromobenzene

Concen: 18.965 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

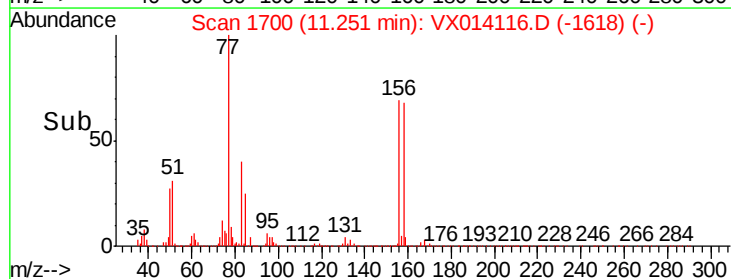
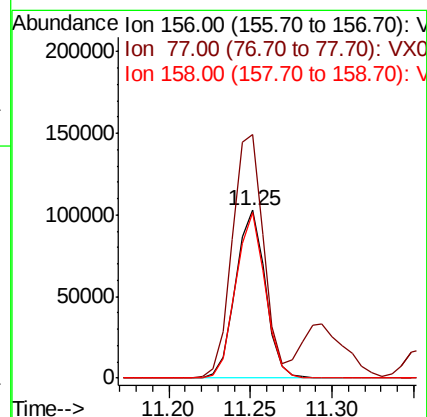
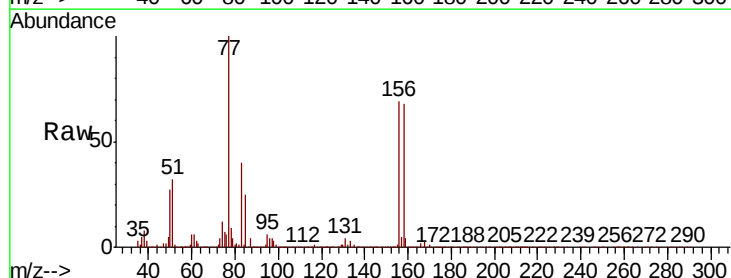
Tgt Ion: 156 Resp: 130436

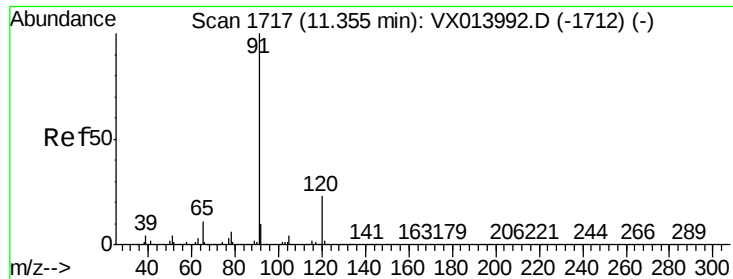
Ion Ratio Lower Upper

156 100

77 151.8 0.0 304.6

158 97.6 0.0 195.2





#74

n-propylbenzene

Concen: 19.935 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

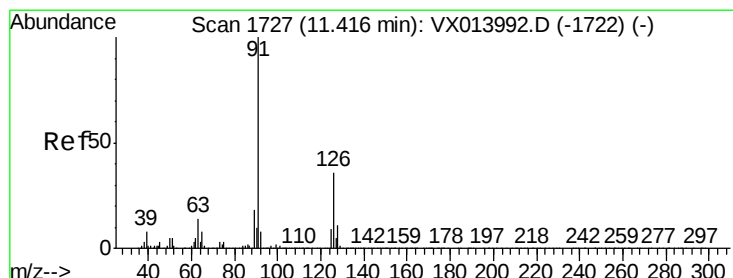
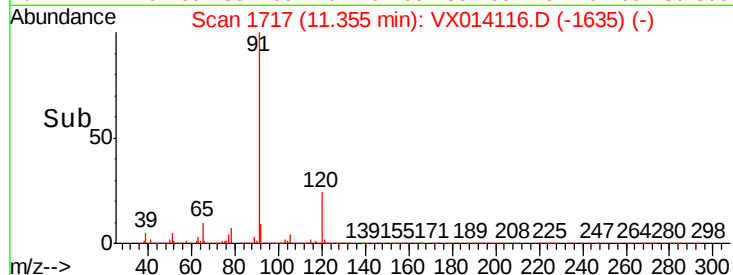
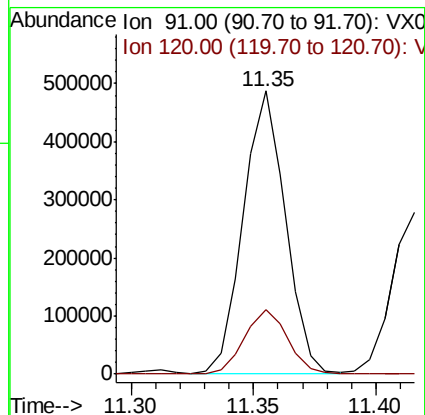
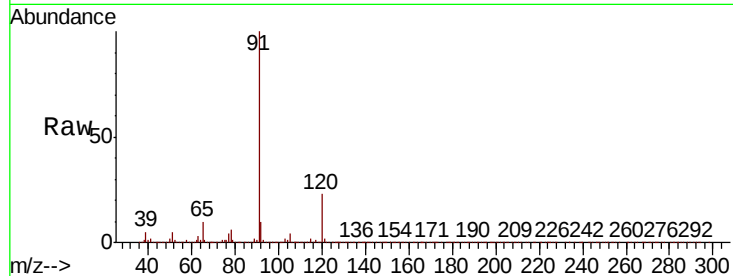
ClientSampled :

Tot Ion: 91 Resp: 582558

Ion Ratio Lower Upper

91 100

120 23.2 0.0 44.8



#75

2-Chlorotoluene

Concen: 19.431 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX014116.D

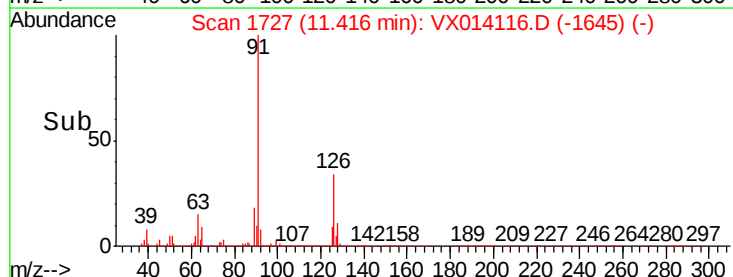
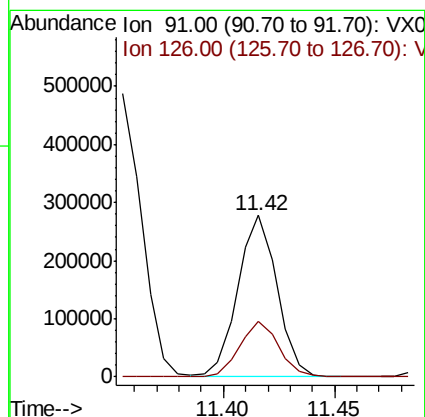
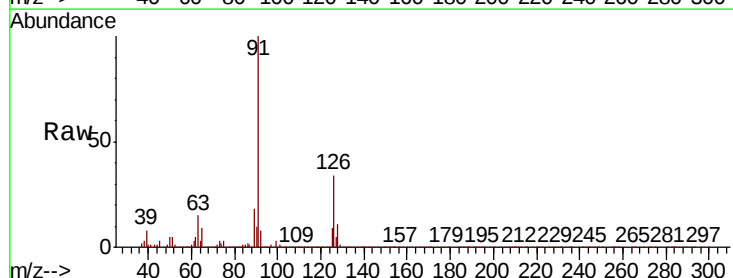
Acq: 19 Dec 2019 13:04

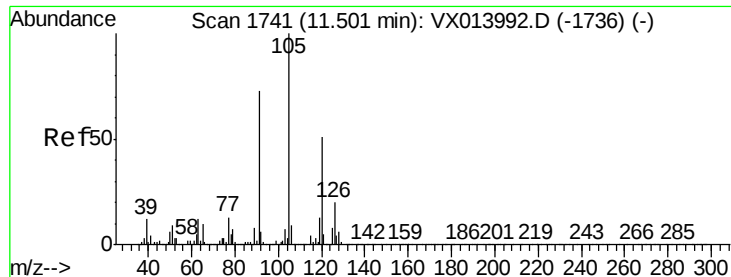
Tgt Ion: 91 Resp: 343094

Ion Ratio Lower Upper

91 100

126 34.1 0.0 70.8



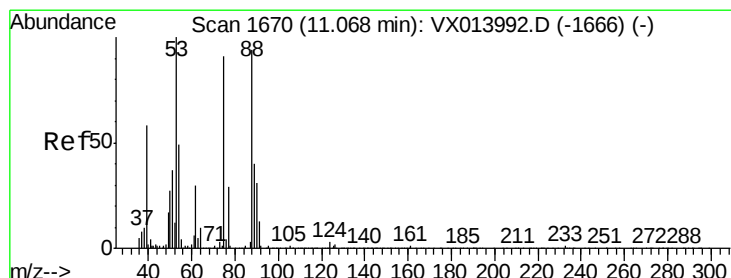
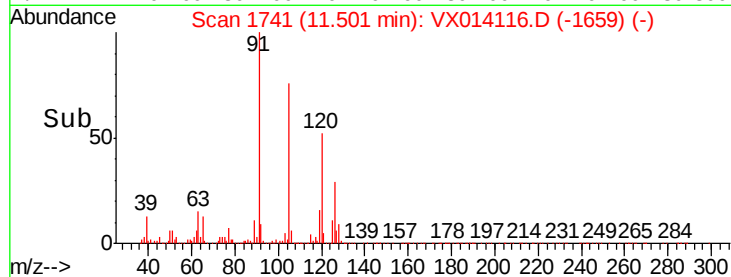
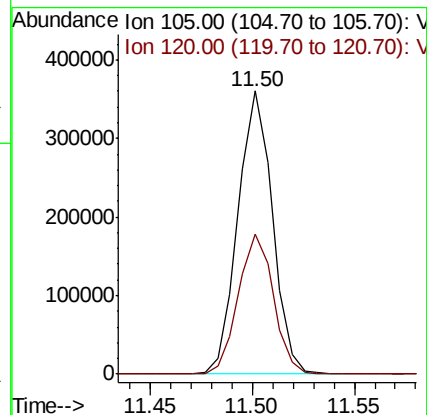
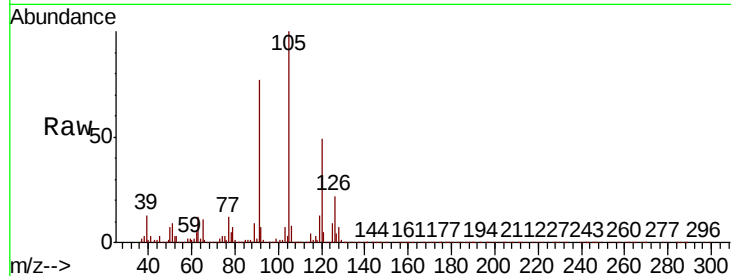


#76

1,3,5-Trimethylbenzene  
Concen: 19.238 ug/l  
RT: 11.50 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampleId :

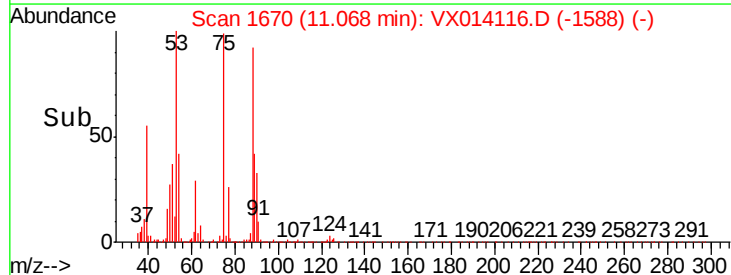
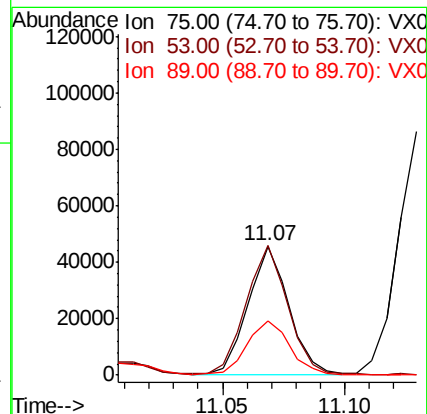
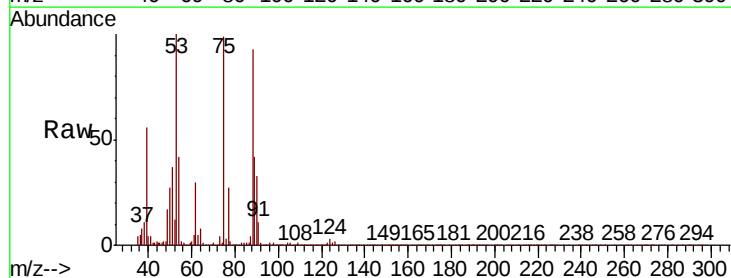
Tot Ion:105 Resp: 420465  
Ion Ratio Lower Upper  
105 100  
120 50.5 0.0 100.6

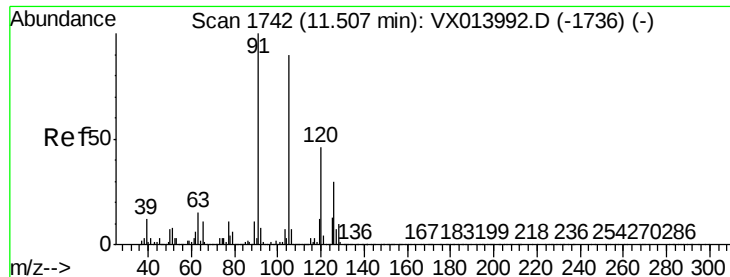


#77

t-1,4-Dichloro-2-butene  
Concen: 19.655 ug/l  
RT: 11.07 min Scan# 1670  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion: 75 Resp: 52788  
Ion Ratio Lower Upper  
75 100  
53 101.4 54.4 163.1  
89 42.4 21.9 65.5





#78

4-Chlorotoluene

Concen: 19.189 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

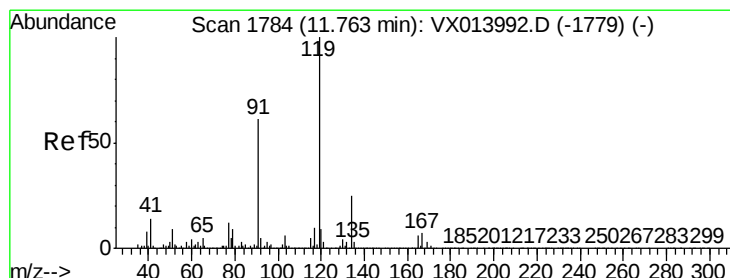
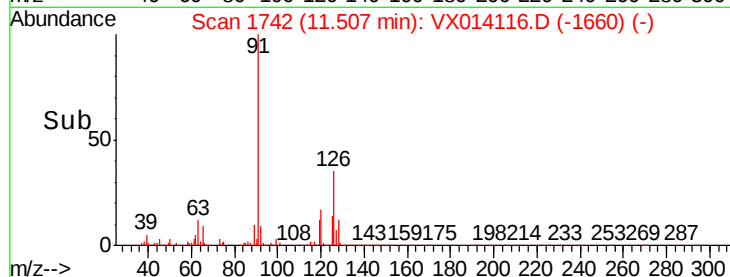
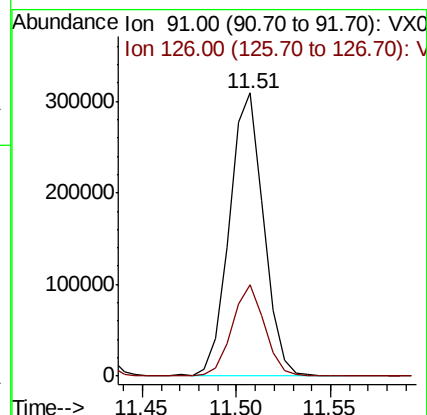
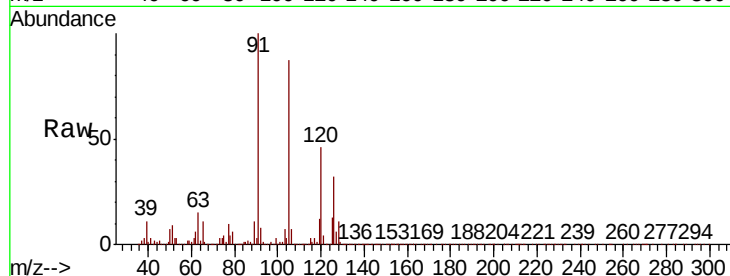
ClientSampleId :

Tot Ion: 91 Resp: 387175

Ion Ratio Lower Upper

91 100

126 30.5 0.0 59.6



#79

tert-butylbenzene

Concen: 19.214 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

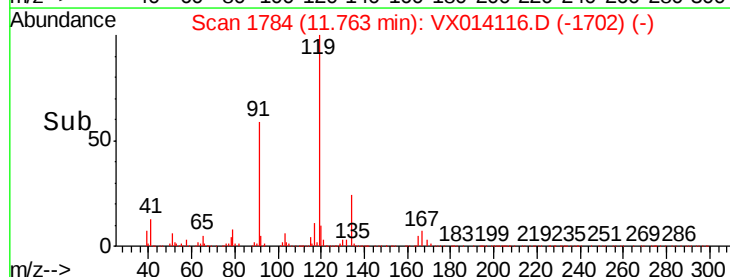
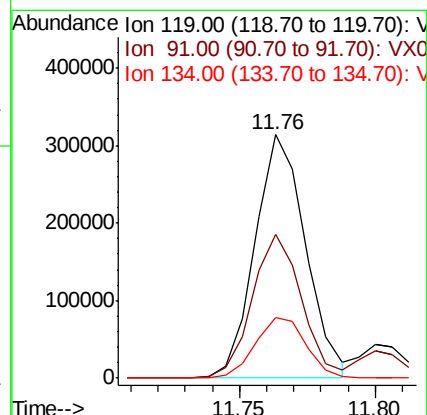
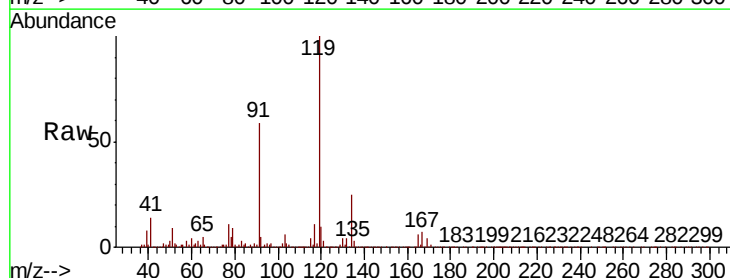
Tgt Ion: 119 Resp: 404788

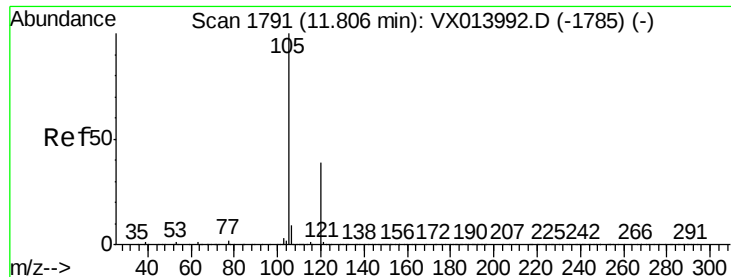
Ion Ratio Lower Upper

119 100

91 57.3 0.0 112.6

134 25.1 0.0 49.8





#80

1,2,4-Trimethylbenzene

Concen: 19.034 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. -0.01 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

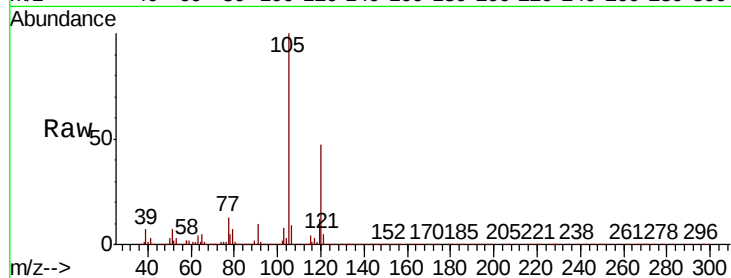
ClientSampleId :

Tot Ion:105 Resp: 415973

Ion Ratio Lower Upper

105 100

120 46.6 0.0 92.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.80

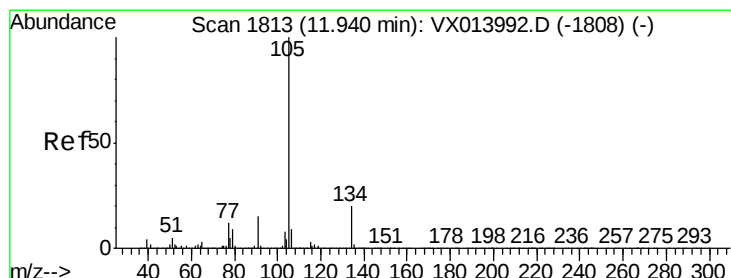
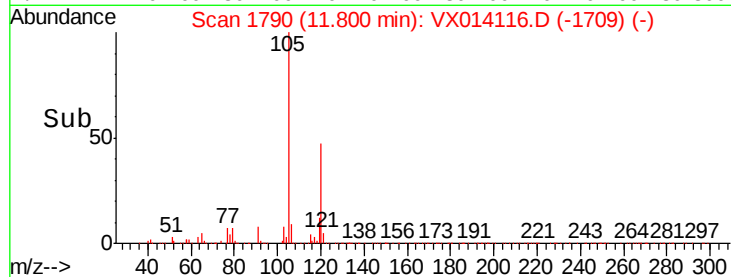
300000

200000

100000

0

Time-->



#81

sec-Butylbenzene

Concen: 19.504 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX014116.D

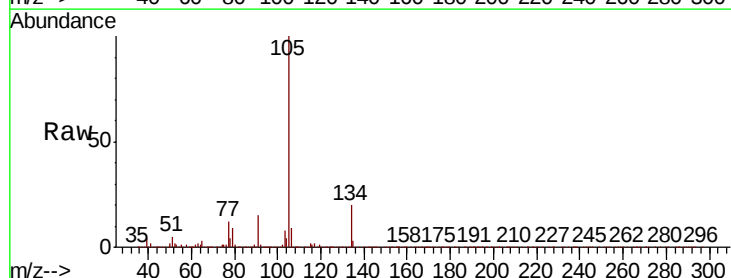
Acq: 19 Dec 2019 13:04

Tgt Ion:105 Resp: 488734

Ion Ratio Lower Upper

105 100

134 20.5 0.0 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

400000

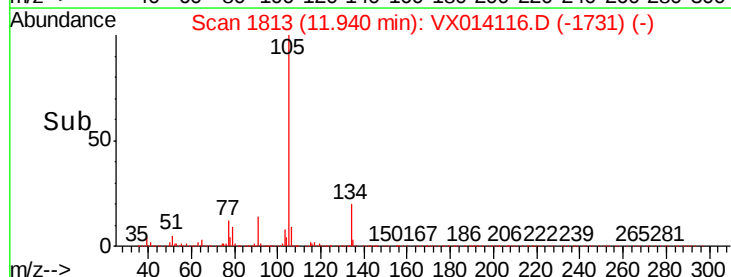
300000

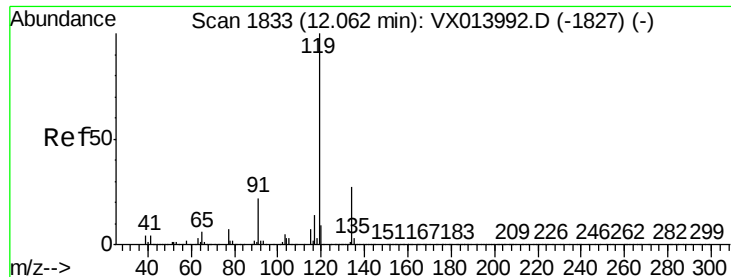
200000

100000

0

Time-->

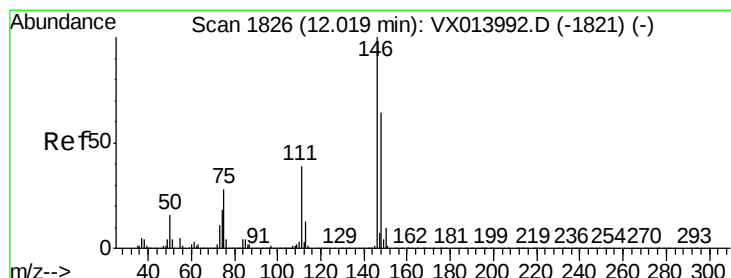
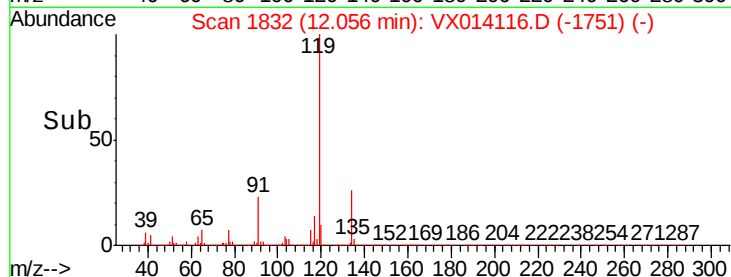
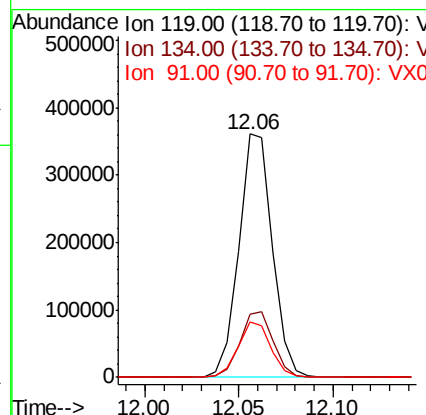
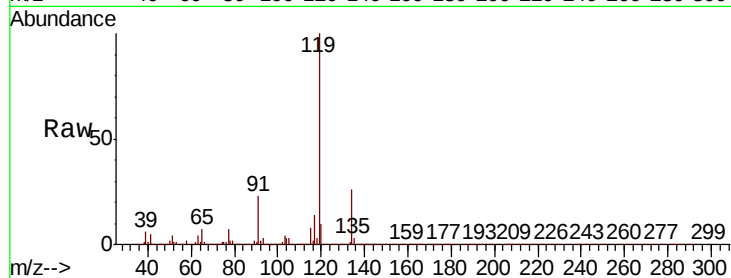




#82  
p-Isopropyltoluene  
Concen: 19.614 ug/l  
RT: 12.06 min Scan# 1832  
Delta R.T. -0.01 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

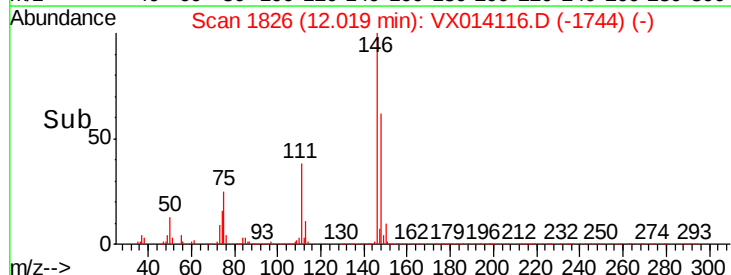
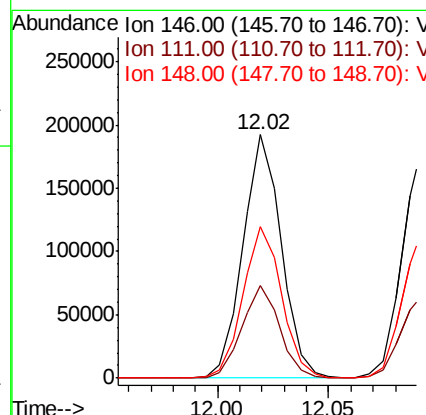
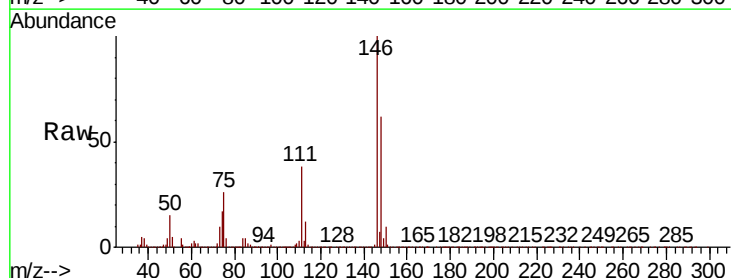
Instrument :  
MSVOA\_X  
ClientSampled :

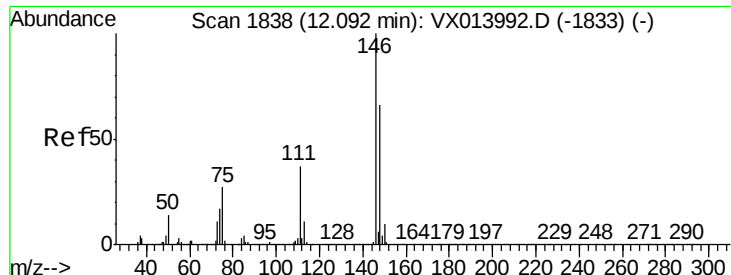
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.8  | 0.0   | 53.8  |
| 91      | 22.3  | 0.0   | 45.0  |



#83  
1,3-Dichlorobenzene  
Concen: 19.226 ug/l  
RT: 12.02 min Scan# 1826  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.5  | 19.3  | 57.9  |
| 148     | 62.9  | 32.2  | 96.6  |

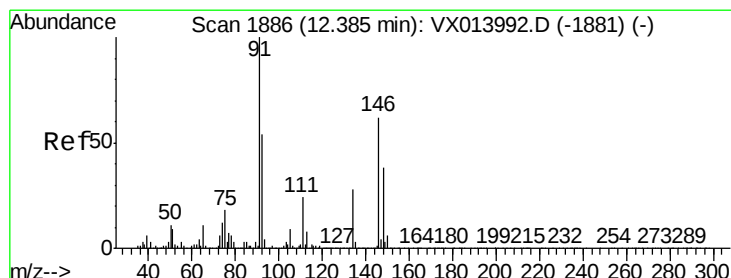
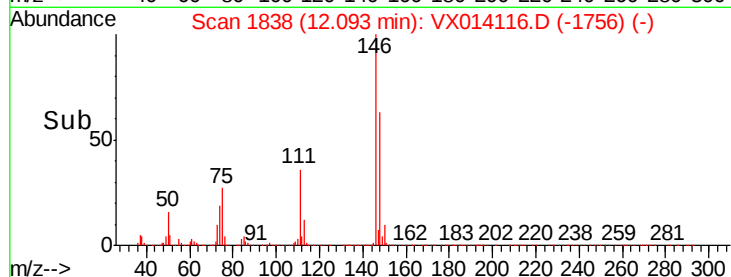
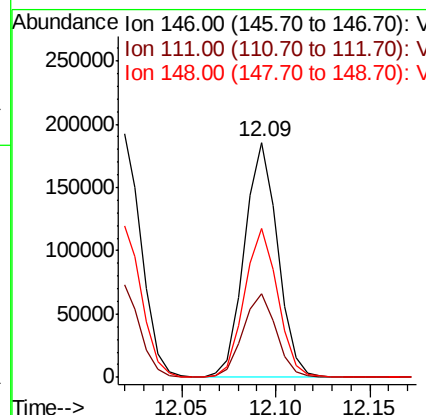
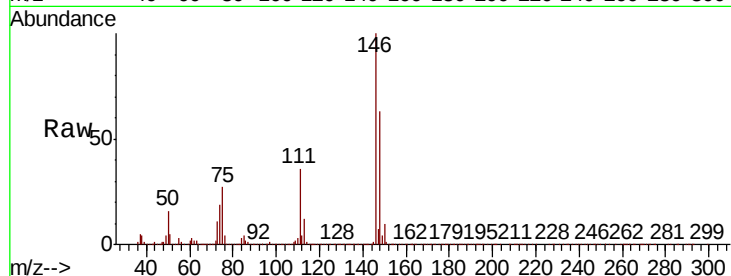




#84  
1,4-Dichlorobenzene  
Concen: 19.048 ug/l  
RT: 12.09 min Scan# 1838  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

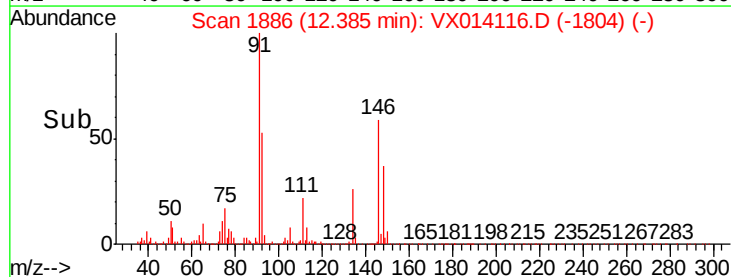
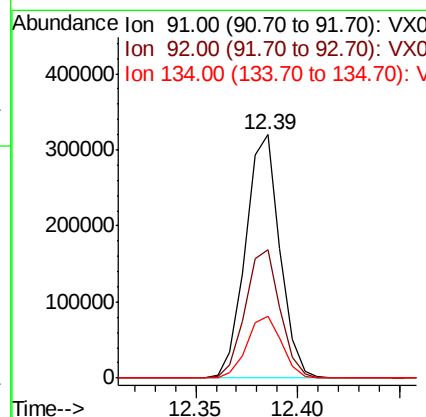
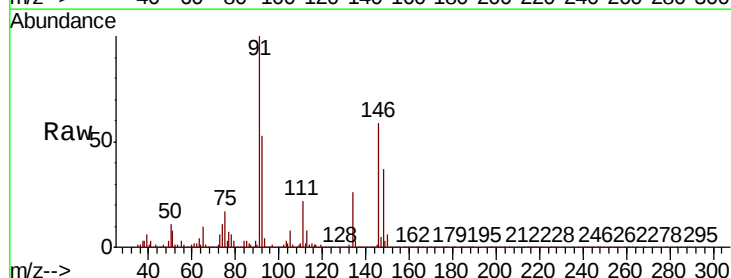
Instrument :  
MSVOA\_X  
ClientSampleId :

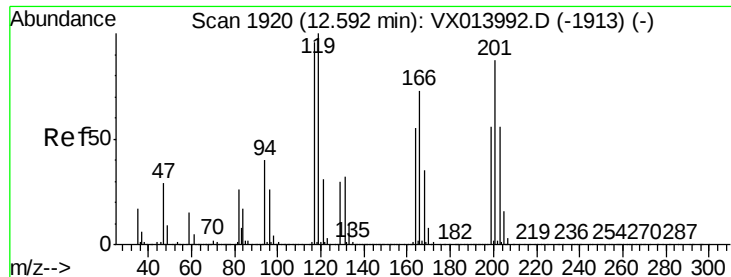
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.8  | 18.4  | 55.4  |
| 148     | 63.4  | 32.0  | 96.0  |



#85  
n-Butylbenzene  
Concen: 19.653 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 53.5  | 0.0   | 109.0 |
| 134     | 25.8  | 0.0   | 54.0  |

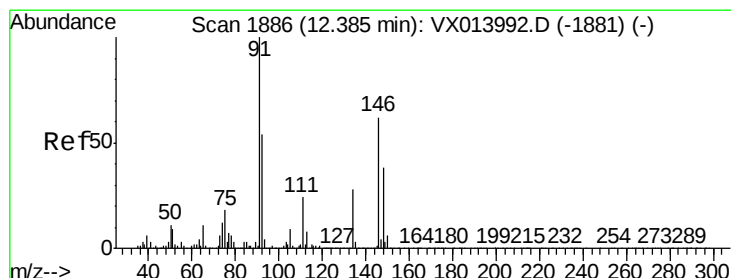
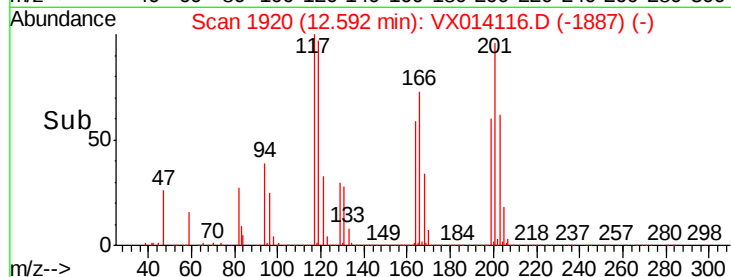
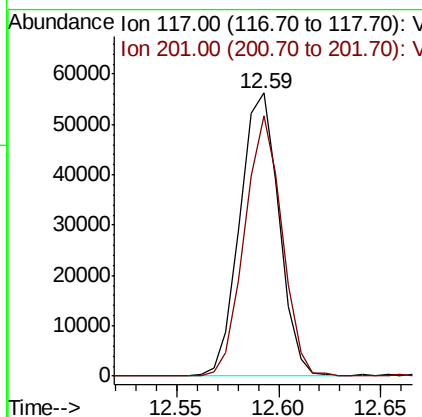
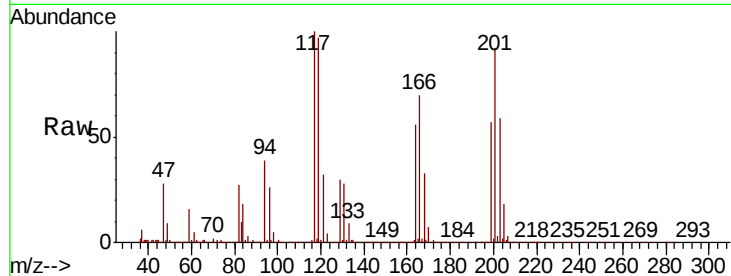




#86  
Hexachloroethane  
Concen: 18.175 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

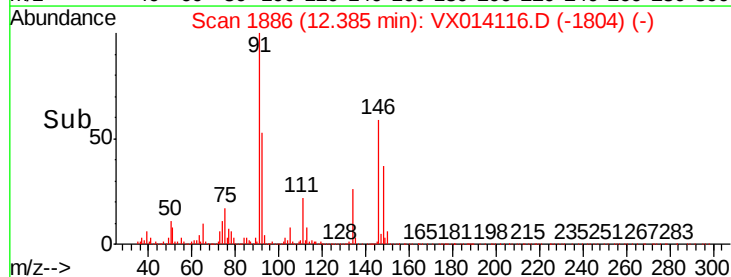
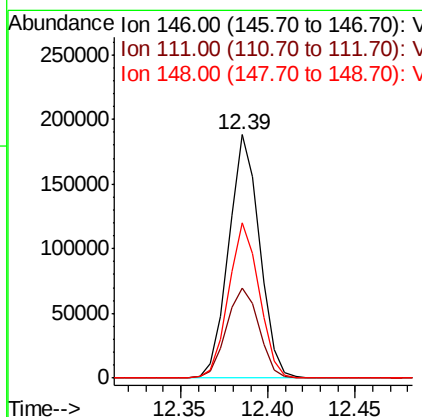
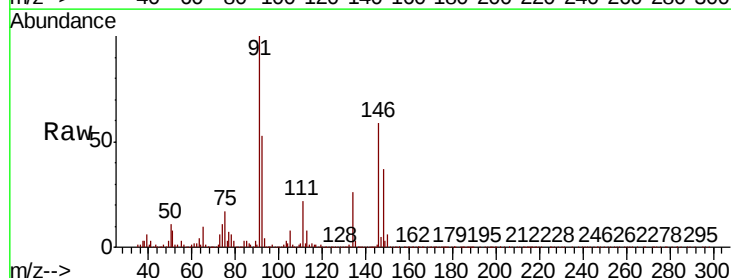
Instrument :  
MSVOA\_X  
ClientSampleId :

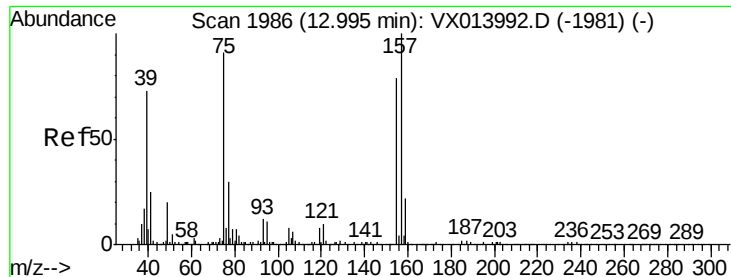
Tot Ion:117 Resp: 74559  
Ion Ratio Lower Upper  
117 100  
201 88.5 44.8 134.3



#87  
1,2-Dichlorobenzene  
Concen: 19.012 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion:146 Resp: 231499  
Ion Ratio Lower Upper  
146 100  
111 39.0 20.1 60.2  
148 62.9 32.0 96.2





#88

1,2-Dibromo-3-Chloropropane

Concen: 18.415 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

Instrument :

MSVOA\_X

ClientSampleId :

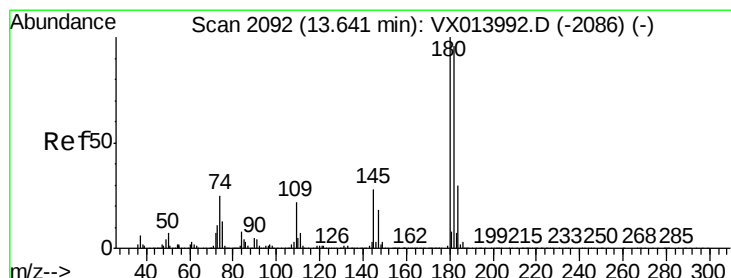
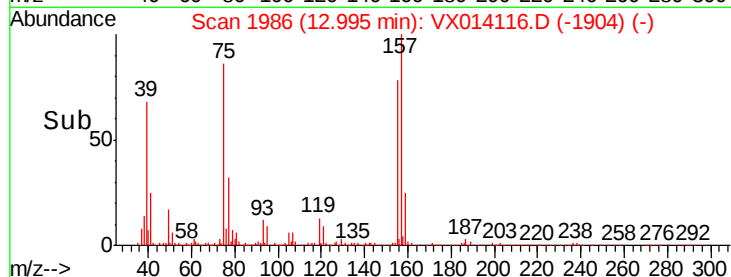
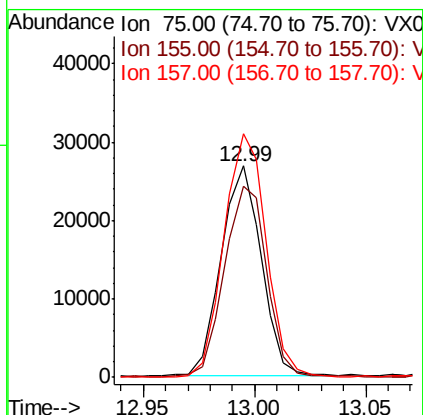
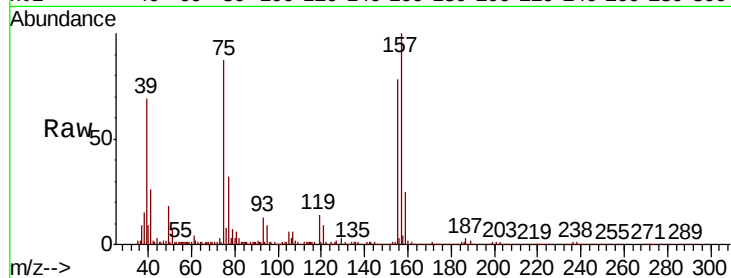
Tot Ion: 75 Resp: 33536

Ion Ratio Lower Upper

75 100

155 95.8 73.8 110.6

157 122.6 95.0 142.4



#89

1,2,4-Trichlorobenzene

Concen: 18.289 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014116.D

Acq: 19 Dec 2019 13:04

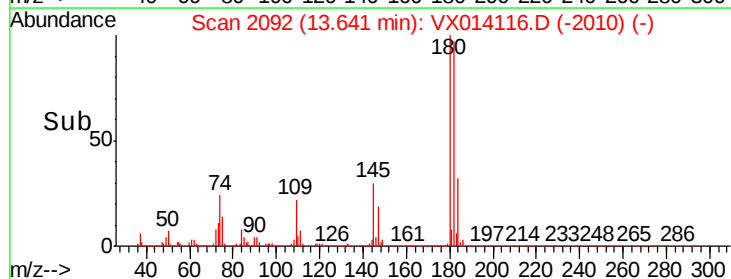
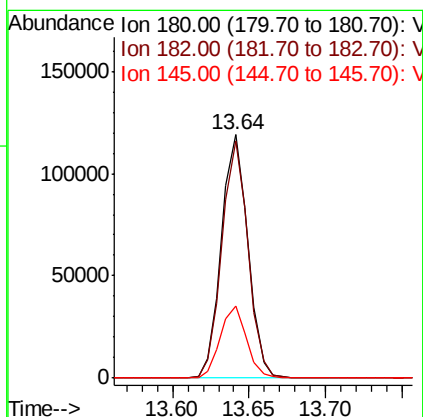
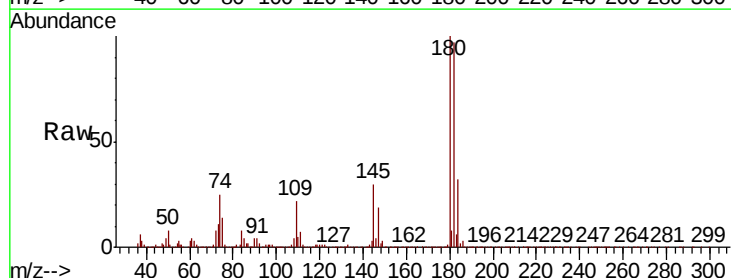
Tgt Ion: 180 Resp: 142333

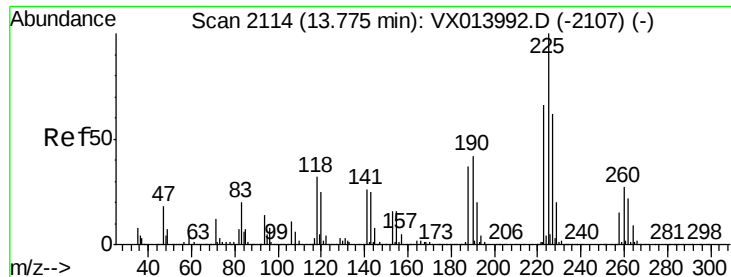
Ion Ratio Lower Upper

180 100

182 96.5 76.4 114.6

145 29.6 21.9 32.9

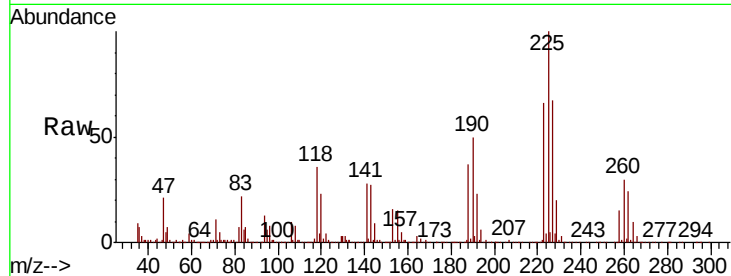




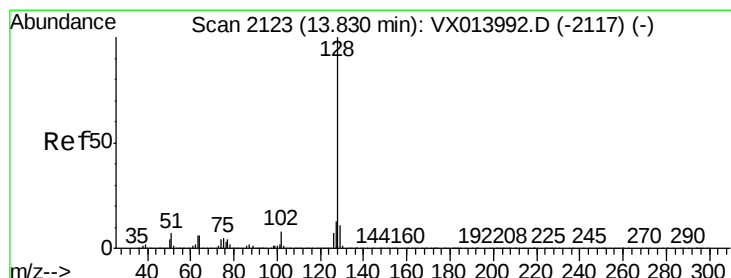
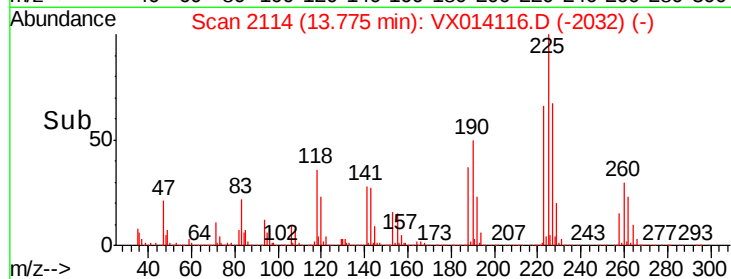
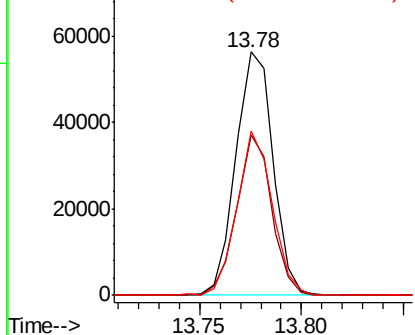
#90  
Hexachlorobutadiene  
Concen: 19.376 ug/l  
RT: 13.78 min Scan# 2114  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:225 Resp: 71673  
Ion Ratio Lower Upper  
225 100  
223 61.6 0.0 127.4  
227 63.3 0.0 122.8

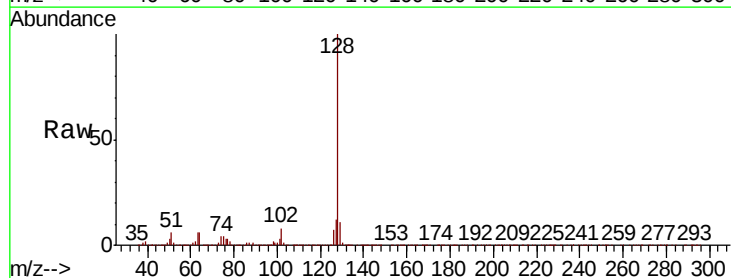


Abundance Ion 225.00 (224.70 to 225.70): V  
Ion 223.00 (222.70 to 223.70): V  
Ion 227.00 (226.70 to 227.70): V

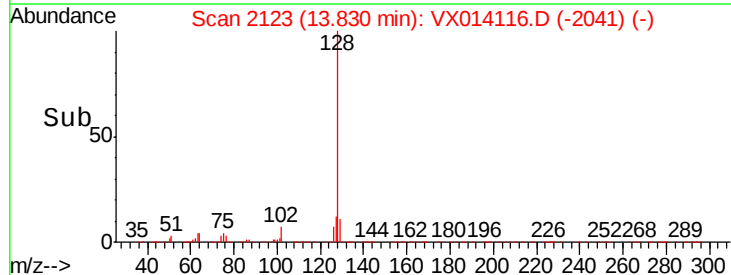
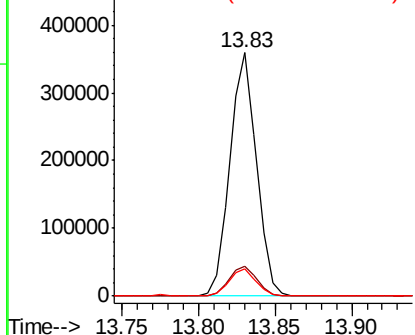


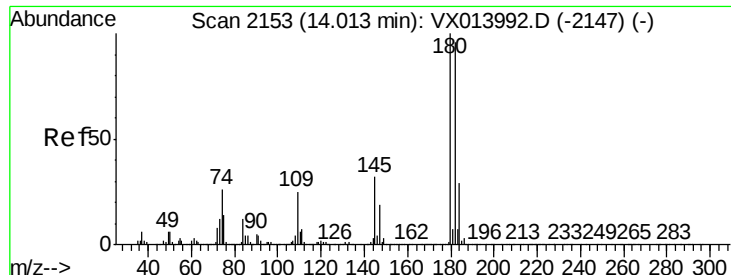
#91  
Naphthalene  
Concen: 18.466 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX014116.D  
Acq: 19 Dec 2019 13:04

Tgt Ion:128 Resp: 431929  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.4 15.6  
129 11.1 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V





#92  
 1,2,3-Trichlorobenzene  
 Concen: 18.261 ug/l  
 RT: 14.01 min Scan# 2153  
 Delta R.T. 0.00 min  
 Lab File: VX014116.D  
 Acq: 19 Dec 2019 13:04

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.4  | 0.0   | 192.8 |
| 145     | 30.1  | 0.0   | 60.0  |

