

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\  
 Data File : VX013166.D  
 Acq On : 21 Oct 2019 20:46  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

MMDadoda  
 10/22/2019 12:32:37 PM

Quant Time: Oct 22 02:35:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Oct 22 01:53:07 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 27550    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 155172   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 136174   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 61416    | 28.32    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 94.40%  |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 68777    | 29.01    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 96.70%  |
| 63) Toluene-d8            | 8.71   | 98    | 187656   | 30.98    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 103.27% |

## Target Compounds

|                               |      |     |        |             | Ovalue |
|-------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 35801  | 18.099 ug/l | 96     |
| 3) Chloromethane              | 1.32 | 50  | 32163  | 18.651 ug/l | 92     |
| 4) Vinyl Chloride             | 1.40 | 62  | 31820  | 17.848 ug/l | 96     |
| 5) Bromomethane               | 1.64 | 94  | 20193  | 20.989 ug/l | 96     |
| 6) Chloroethane               | 1.72 | 64  | 21157  | 18.596 ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 51485  | 17.969 ug/l | 94     |
| 8) Diethyl Ether              | 2.18 | 74  | 17898  | 18.302 ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 30850  | 17.629 ug/l | 98     |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 30323  | 17.941 ug/l | 98     |
| 11) Methyl Iodide             | 2.50 | 142 | 34101  | 15.666 ug/l | 100    |
| 12) Methyl Acetate            | 2.76 | 43  | 40455  | 18.536 ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 26278  | 80.885 ug/l | 98     |
| 14) Acrylonitrile             | 3.13 | 53  | 85786  | 93.989 ug/l | 97     |
| 15) Acetone                   | 2.43 | 58  | 23753  | 78.990 ug/l | 94     |
| 16) Carbon Disulfide          | 2.56 | 76  | 75852  | 16.806 ug/l | 98     |
| 17) Allyl chloride            | 2.72 | 41  | 46942  | 17.461 ug/l | 94     |
| 18) Methylene Chloride        | 2.85 | 84  | 35053  | 17.912 ug/l | 97     |
| 19) trans-1,2-Dichloroethene  | 3.16 | 96  | 32795  | 18.286 ug/l | 93     |
| 20) Diisopropyl ether         | 3.84 | 45  | 97706  | 18.791 ug/l | 99     |
| 21) 1,1-Dichloroethane        | 3.69 | 63  | 57234  | 18.129 ug/l | 98     |
| 22) cis-1,2-Dichloroethene    | 4.59 | 96  | 37695  | 18.432 ug/l | 97     |
| 23) tert-Butyl Alcohol        | 3.03 | 59  | 37700  | 78.399 ug/l | # 100  |
| 24) Methyl tert-Butyl Ether   | 3.19 | 73  | 105056 | 18.024 ug/l | 98     |
| 25) Chloroform                | 5.20 | 83  | 60824  | 18.334 ug/l | 97     |
| 26) Cyclohexane               | 5.57 | 56  | 49287  | 17.792 ug/l | # 99   |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 44286  | 18.371 ug/l | # 87   |
| 30) 2-Butanone                | 4.65 | 43  | 114278 | 90.376 ug/l | 98     |
| 31) 2,2-Dichloropropane       | 4.57 | 77  | 45889  | 16.465 ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 53164  | 18.226 ug/l | 98     |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 44338  | 17.685 ug/l | 98     |
| 34) Benzene                   | 6.14 | 78  | 131910 | 19.008 ug/l | 96     |
| 35) Methacrylonitrile         | 5.03 | 41  | 24154  | 18.626 ug/l | 97     |
| 36) 1,2-Dichloroethane        | 6.18 | 62  | 49399  | 18.831 ug/l | 99     |
| 37) Trichloroethene           | 7.21 | 130 | 35848  | 18.623 ug/l | 96     |
| 38) Methylcyclohexane         | 7.46 | 83  | 52910  | 17.997 ug/l | 98     |
| 39) 1,2-Dichloropropane       | 7.51 | 63  | 32343  | 18.988 ug/l | 98     |
| 40) Dibromomethane            | 7.65 | 93  | 23038  | 18.935 ug/l | 98     |

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Manual Integrations  
 APPROVED

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 10/22/2019 12:32:37 PM

Quant Time: Oct 22 02:35:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Oct 22 01:53:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 7.89  | 83   | 44498    | 18.138  | ug/l # | 99       |
| 42) Vinyl Acetate              | 3.80  | 43   | 409234   | 93.329  | ug/l   | 100      |
| 43) Ethyl Acetate              | 4.81  | 43   | 45482    | 19.721  | ug/l   | 98       |
| 44) Isopropyl Acetate          | 6.43  | 43   | 73490    | 18.960  | ug/l   | 100      |
| 45) 1,4-Dioxane                | 7.73  | 88   | 15884    | 324.037 | ug/l   | 99       |
| 46) Methyl methacrylate        | 7.76  | 41   | 34909    | 18.303  | ug/l   | 95       |
| 47) n-amyl Acetate             | 10.89 | 43   | 59419    | 18.186  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene      | 9.04  | 75   | 47530    | 17.662  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene    | 8.43  | 75   | 52245    | 17.842  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane      | 9.21  | 97   | 33912    | 18.874  | ug/l   | 97       |
| 51) Ethyl methacrylate         | 9.17  | 69   | 51553    | 18.299  | ug/l   | 98       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 56825    | 18.780  | ug/l   | 99       |
| 53) Dibromochloromethane       | 9.58  | 129  | 34597    | 17.850  | ug/l   | 96       |
| 54) 1,2-Dibromoethane          | 9.67  | 107  | 36707    | 19.107  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether  | 8.31  | 63   | 114206   | 99.792  | ug/l   | 98       |
| 56) Bromoform                  | 10.85 | 173  | 23025    | 16.745  | ug/l   | 98       |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 223603   | 97.448  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 168072   | 93.462  | ug/l   | 99       |
| 61) Tetrachloroethene          | 9.33  | 164  | 36473    | 20.204  | ug/l   | 100      |
| 62) Toluene                    | 8.78  | 91   | 142027   | 19.321  | ug/l   | 99       |
| 64) Chlorobenzene              | 10.14 | 112  | 89911    | 19.076  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 33441    | 18.940  | ug/l   | 99       |
| 66) Ethyl Benzene              | 10.25 | 91   | 160826   | 19.009  | ug/l   | 98       |
| 67) m/p-Xylenes                | 10.35 | 106  | 120624   | 37.513  | ug/l   | 98       |
| 68) o-Xylene                   | 10.70 | 106  | 58656    | 19.109  | ug/l   | 93       |
| 69) Styrene                    | 10.71 | 104  | 99076    | 18.756  | ug/l   | 99       |
| 70) Isopropylbenzene           | 11.01 | 105  | 154247   | 18.313  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 48841    | 18.923  | ug/l   | 96       |
| 72) 1,2,3-Trichloropropane     | 11.29 | 75   | 41574m   | 18.545  | ug/l   |          |
| 73) Bromobenzene               | 11.25 | 156  | 37484    | 18.544  | ug/l   | 97       |
| 74) n-propylbenzene            | 11.35 | 91   | 169414   | 18.325  | ug/l   | 100      |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 106516   | 18.413  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 132883   | 18.794  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene    | 11.07 | 75   | 14214    | 16.331  | ug/l   | 95       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 125961   | 19.056  | ug/l   | 99       |
| 79) tert-butylbenzene          | 11.76 | 119  | 125380   | 18.416  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 134482   | 19.039  | ug/l   | 98       |
| 81) sec-Butylbenzene           | 11.94 | 105  | 148931   | 18.362  | ug/l   | 99       |
| 82) p-Isopropyltoluene         | 12.06 | 119  | 139452   | 18.805  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 12.02 | 146  | 68108    | 18.450  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene        | 12.09 | 146  | 68245    | 18.693  | ug/l   | 98       |
| 85) n-Butylbenzene             | 12.39 | 91   | 109523   | 17.387  | ug/l   | 98       |
| 86) Hexachloroethane           | 12.59 | 117  | 22211    | 17.160  | ug/l   | 94       |
| 87) 1,2-Dichlorobenzene        | 12.39 | 146  | 66756    | 18.642  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 10746    | 16.897  | ug/l   | 93       |
| 89) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 41375    | 18.578  | ug/l   | 97       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 18795    | 16.622  | ug/l   | 99       |
| 91) Naphthalene                | 13.83 | 128  | 138512   | 19.120  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 41593    | 18.229  | ug/l   | 99       |

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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

Manual Integrations  
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10/22/2019 12:32:37 PM

Quant Time: Oct 22 02:35:56 2019  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Oct 22 01:53:07 2019  
Response via : Initial Calibration

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

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

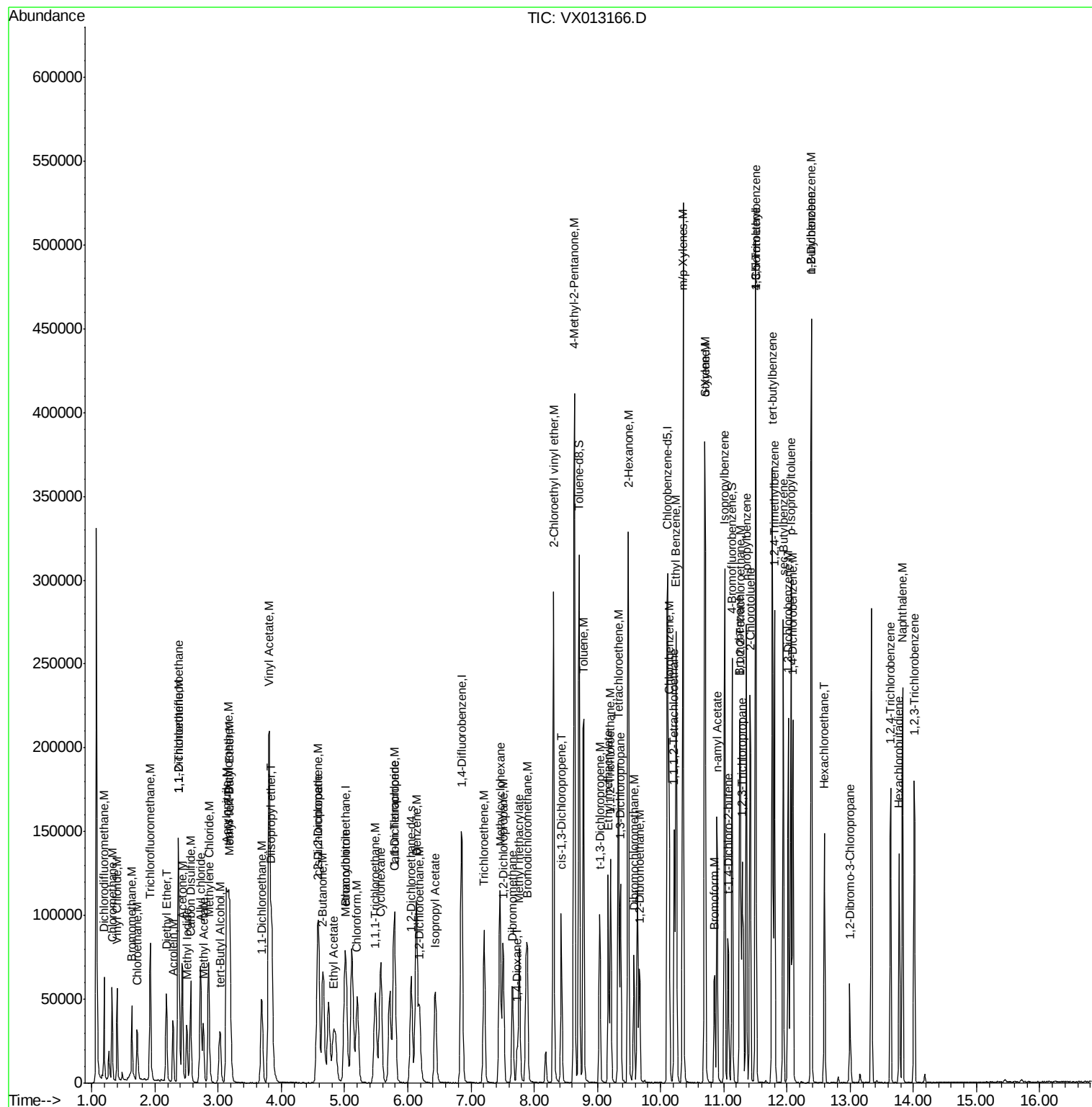
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Data File : VX013166.D  
Acq On : 21 Oct 2019 20:46  
Operator : JC/SP  
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ALS Vial : 20 Sample Multiplier: 1

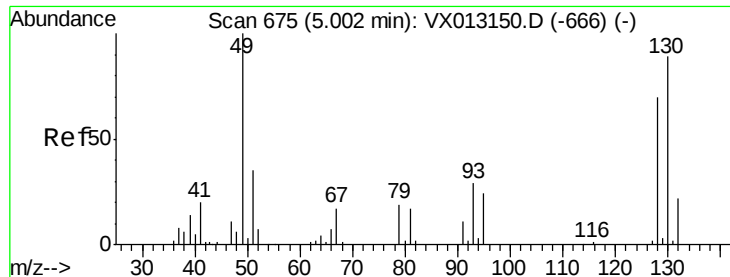
Instrument :  
MSVOA\_X  
ClientSampleID :  
VSTDCCC020EC

Manual Integrations  
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MMDadoda  
10/22/2019 12:32:37 PM

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QLast Update : Tue Oct 22 01:53:07 2019  
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:128 Resp: 27550

Ion Ratio Lower Upper

128 100

49 144.0 0.0 367.3

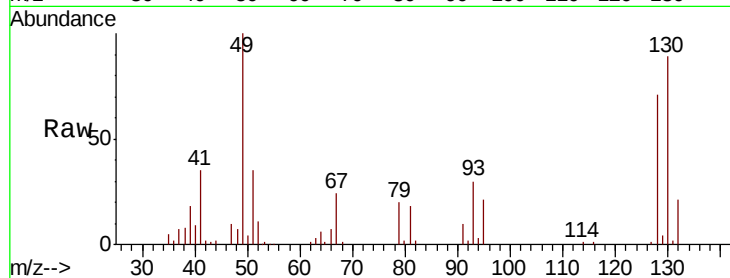
130 126.3 0.0 325.0

Manual Integrations

APPROVED

MMDadoda

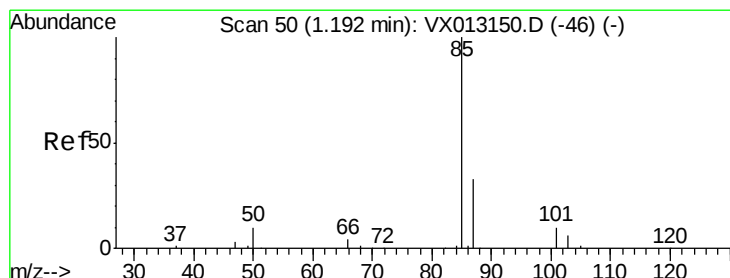
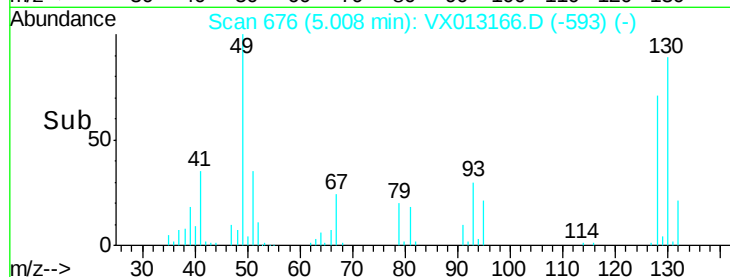
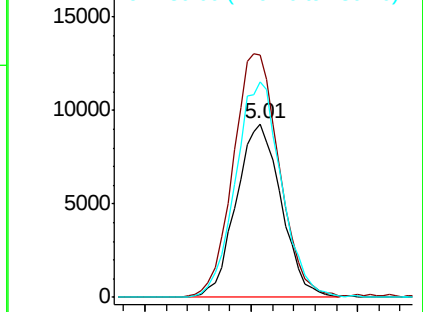
10/22/2019 12:32:37 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 18.099 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013166.D

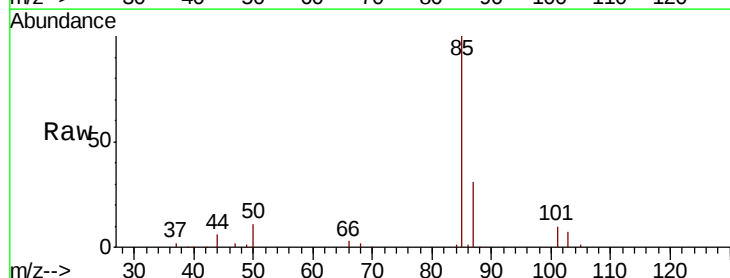
Acq: 21 Oct 2019 20:46

Tgt Ion: 85 Resp: 35801

Ion Ratio Lower Upper

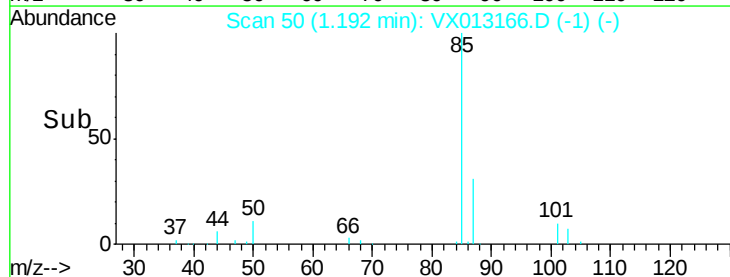
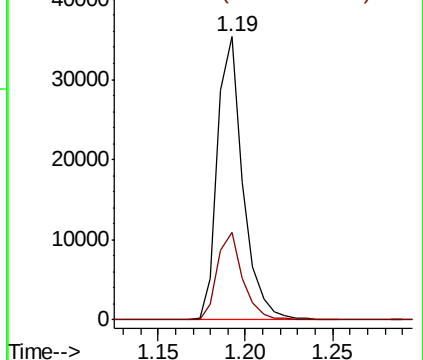
85 100

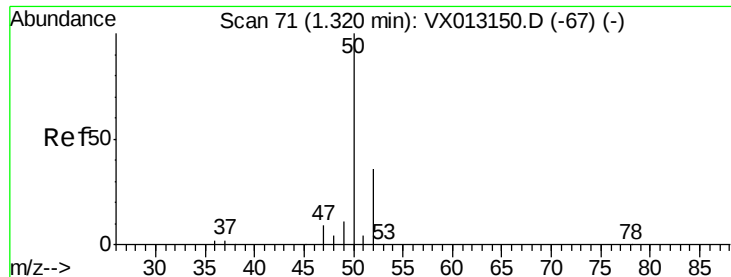
87 30.8 16.6 49.7



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 18.651 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 32163

Ion Ratio Lower Upper

50 100

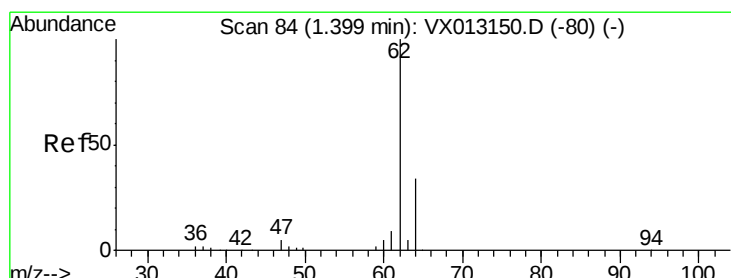
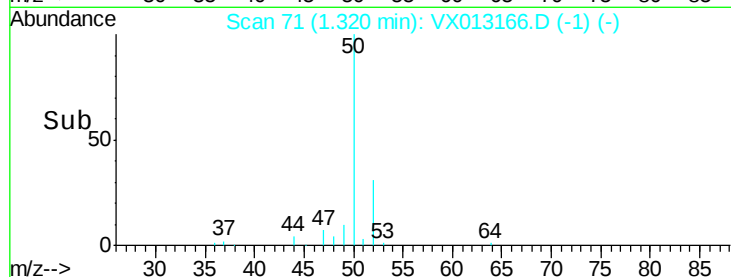
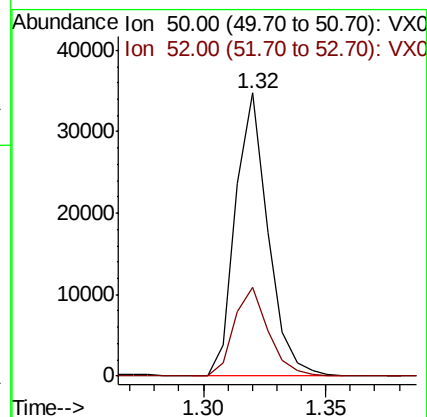
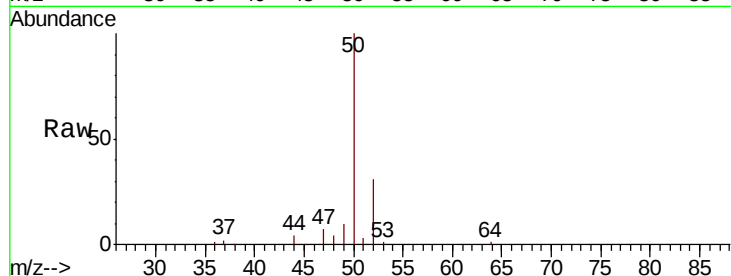
52 31.2 28.6 42.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 17.848 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013166.D

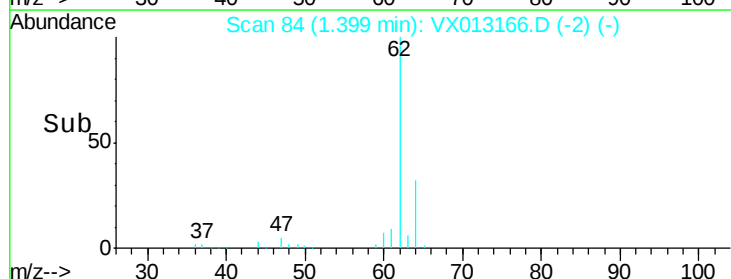
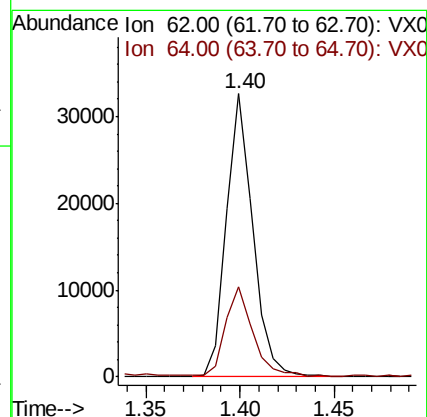
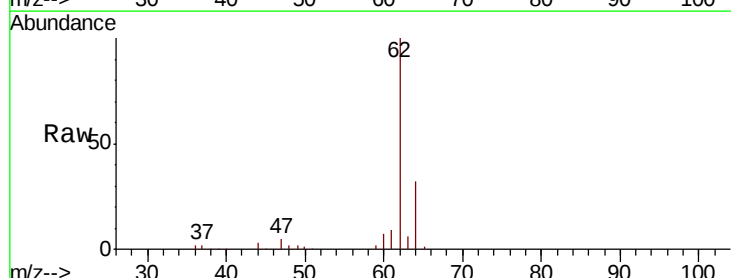
Acq: 21 Oct 2019 20:46

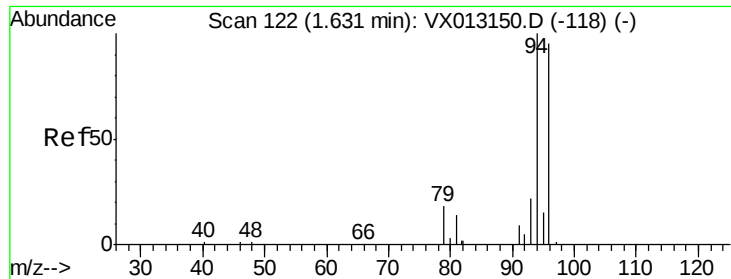
Tgt Ion: 62 Resp: 31820

Ion Ratio Lower Upper

62 100

64 31.7 27.3 40.9





#5

Bromomethane

Concen: 20.989 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 20193

Ion Ratio Lower Upper

94 100

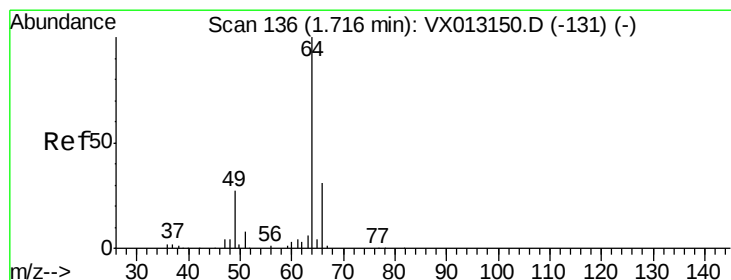
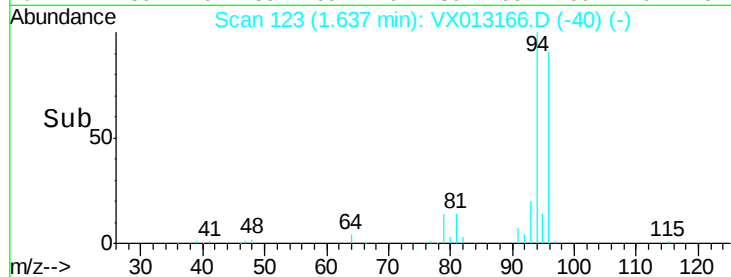
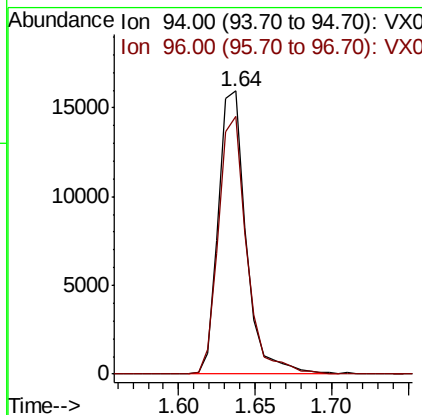
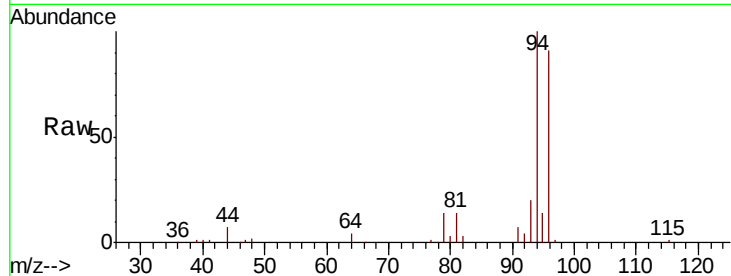
96 90.9 75.9 113.9

Manual Integrations

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#6

Chloroethane

Concen: 18.596 ug/l

RT: 1.72 min Scan# 136

Delta R.T. -0.00 min

Lab File: VX013166.D

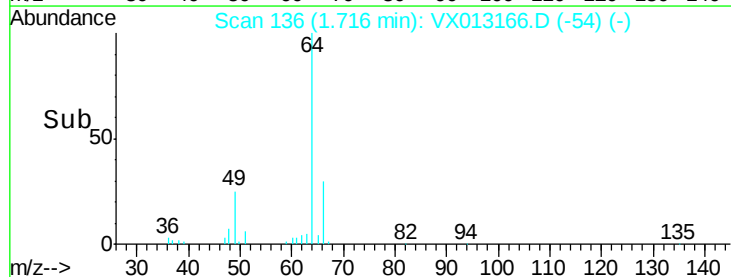
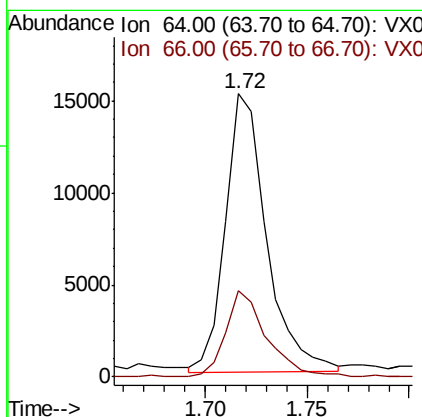
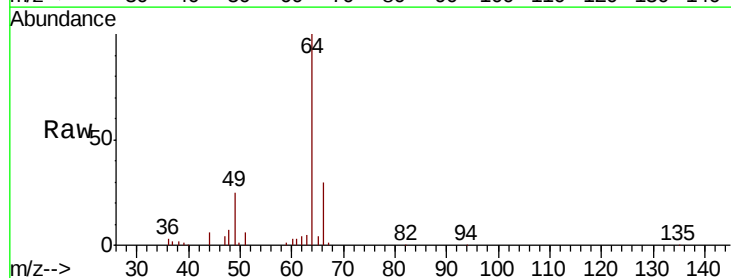
Acq: 21 Oct 2019 20:46

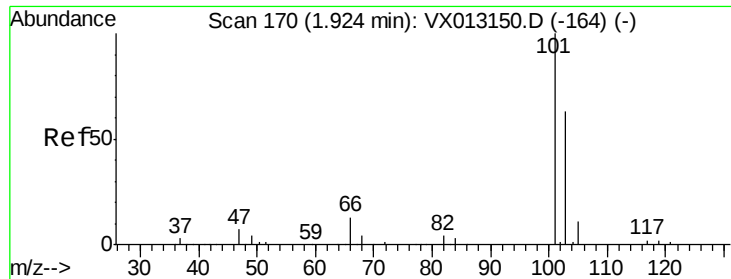
Tgt Ion: 64 Resp: 21157

Ion Ratio Lower Upper

64 100

66 31.3 25.4 38.2





#7

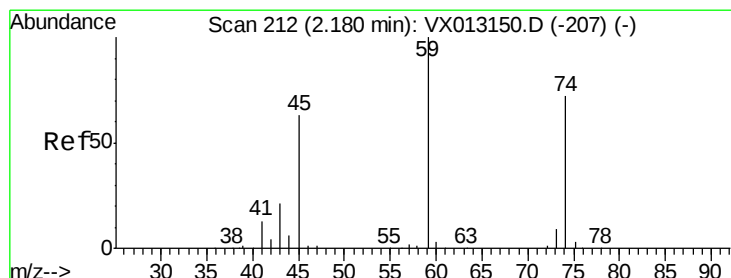
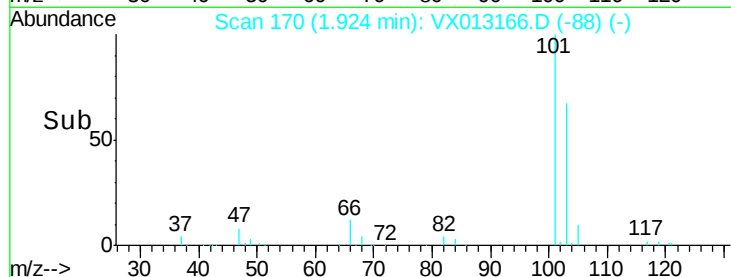
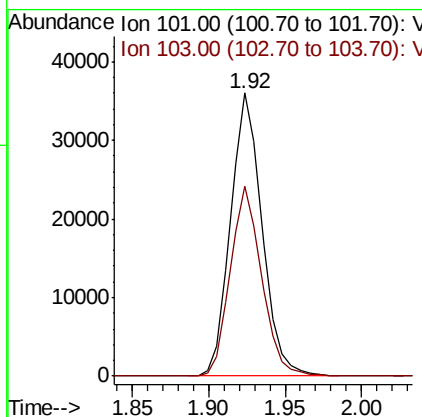
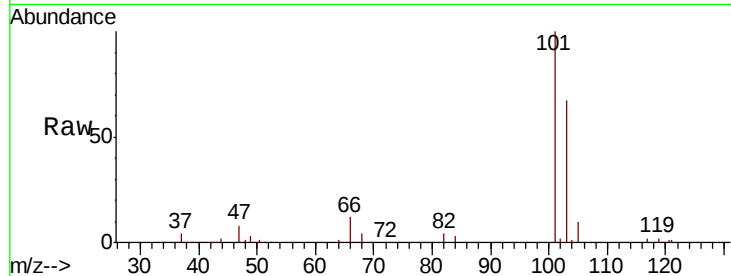
Trichlorofluoromethane  
 Concen: 17.969 ug/l  
 RT: 1.92 min Scan# 170  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 67.3  | 50.2  | 75.4  |

Manual Integrations  
 APPROVED

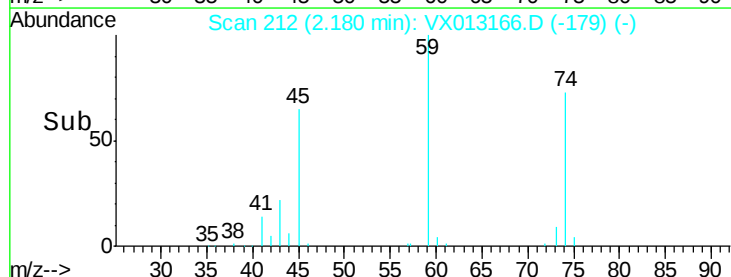
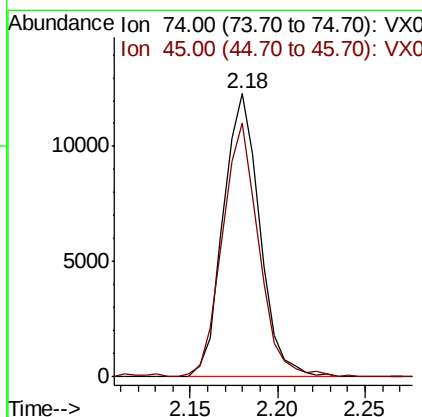
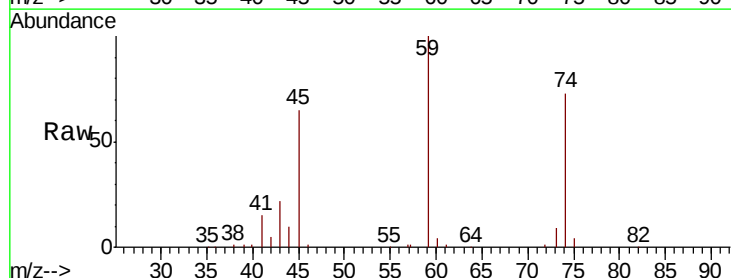
MMDadoda  
 10/22/2019 12:32:37 PM

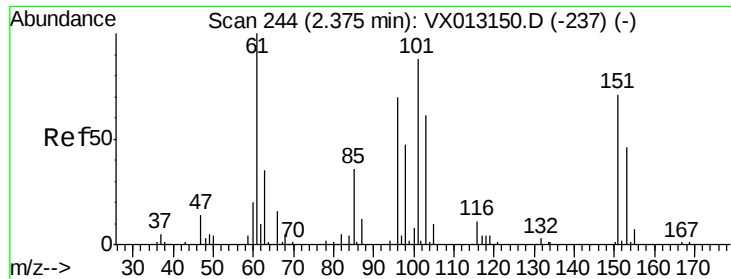


#8

Diethyl Ether  
 Concen: 18.302 ug/l  
 RT: 2.18 min Scan# 212  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 88.9  | 18.4  | 165.6 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.629 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

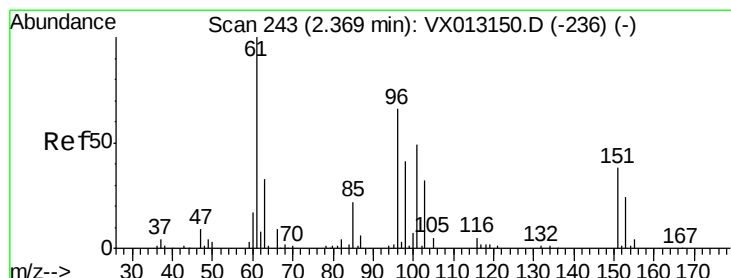
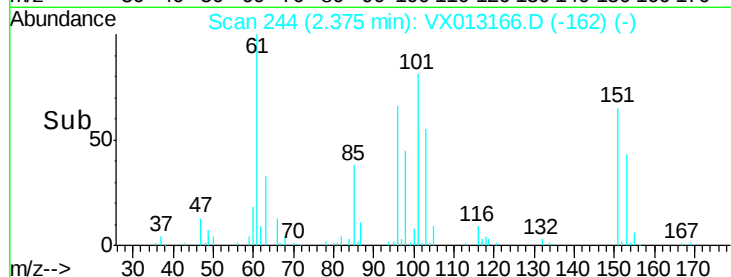
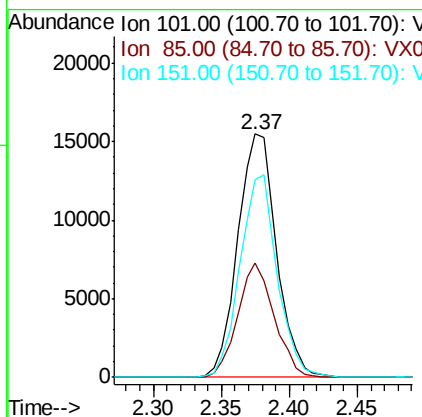
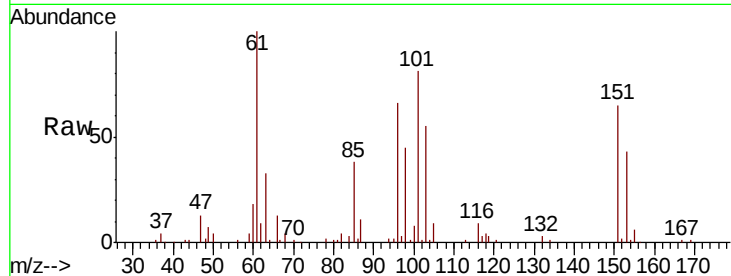
ClientSampleId :

VSTDCCC020EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 30850 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 44.2  | 0.0   | 87.2  |
| 151       | 79.9  | 0.0   | 163.0 |

Manual Integrations  
APPROVED

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10/22/2019 12:32:37 PM



#10

1,1-Dichloroethene

Concen: 17.941 ug/l

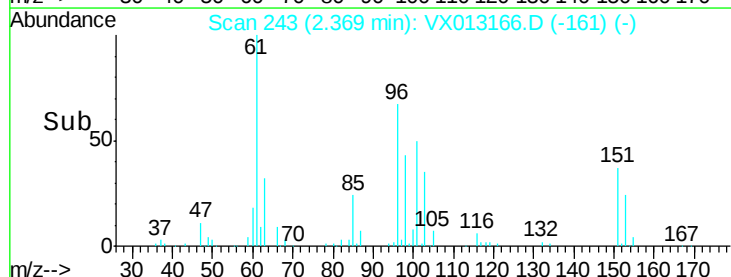
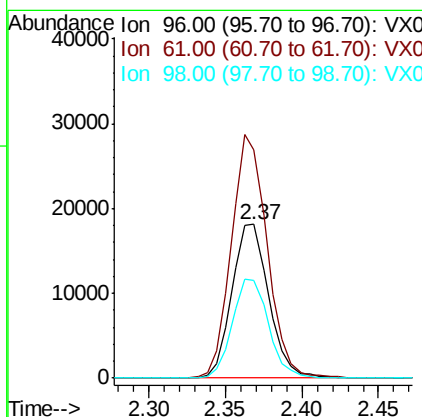
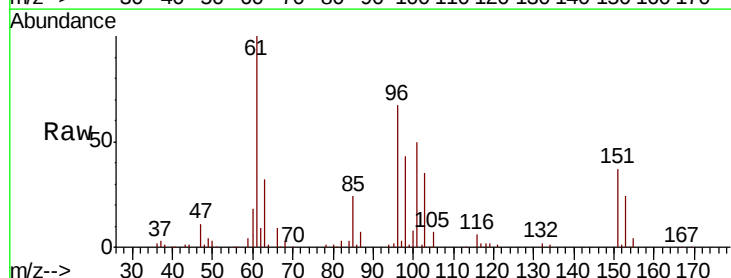
RT: 2.37 min Scan# 243

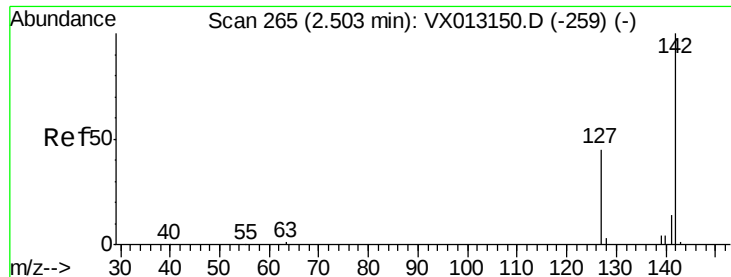
Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 30323 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 148.6 | 121.3 | 181.9 |
| 98        | 63.7  | 49.5  | 74.3  |





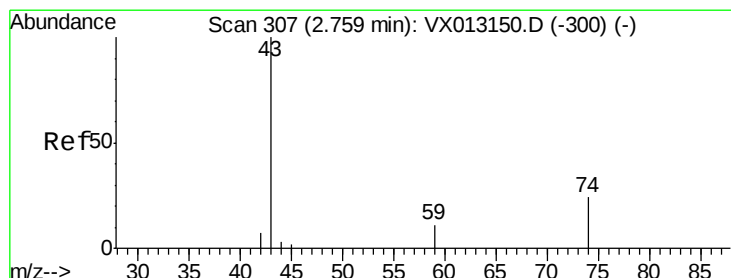
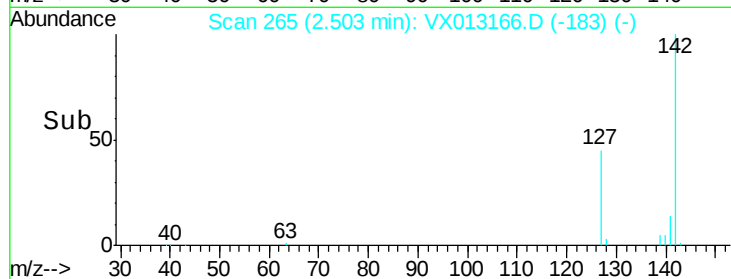
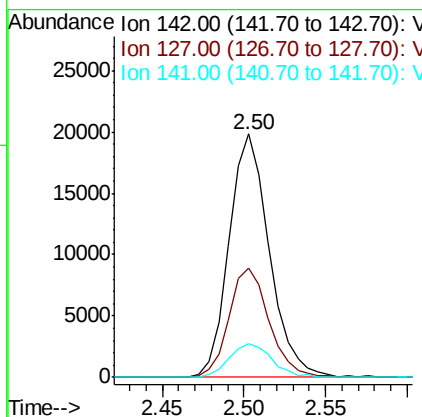
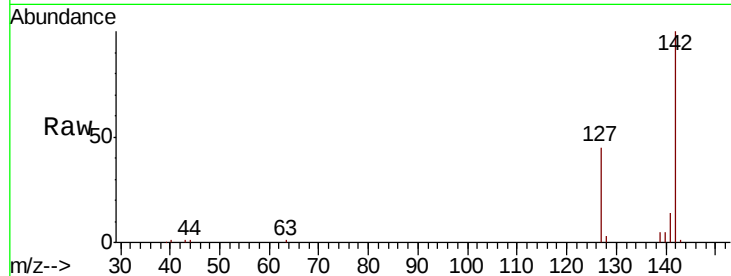
#11  
Methyl Iodide  
Concen: 15.666 ug/l  
RT: 2.50 min Scan# 265  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 44.7  | 22.3  | 66.9  |
| 141     | 13.6  | 7.1   | 21.3  |

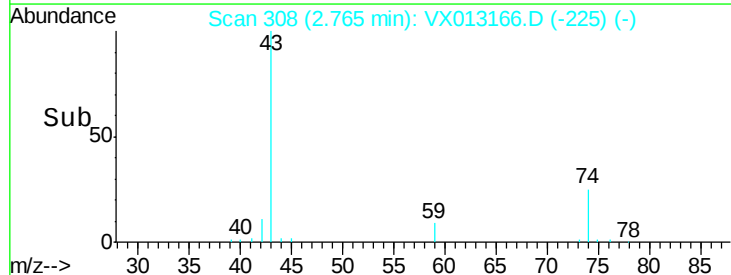
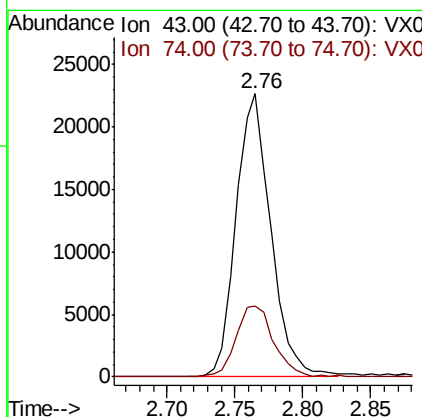
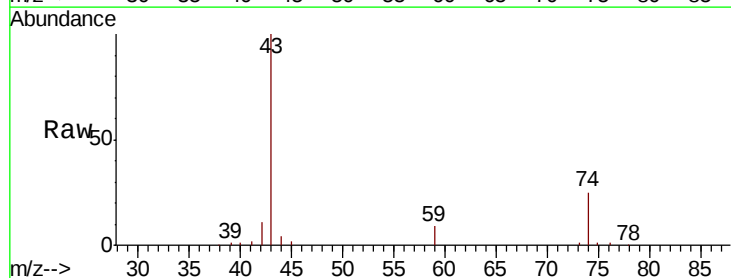
Manual Integrations  
APPROVED

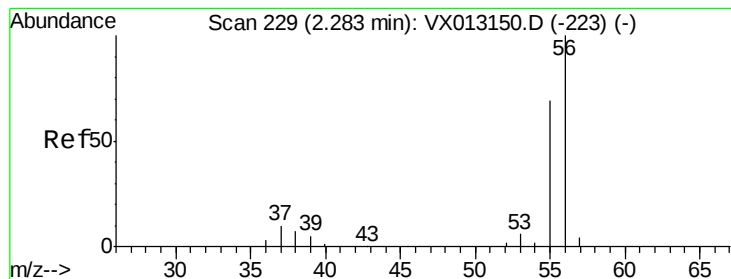
MMDadoda  
10/22/2019 12:32:37 PM



#12  
Methyl Acetate  
Concen: 18.536 ug/l  
RT: 2.76 min Scan# 308  
Delta R.T. 0.01 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 24.9  | 19.7  | 29.5  |





#13

Acrolein

Concen: 80.885 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 26278

Ion Ratio Lower Upper

56 100

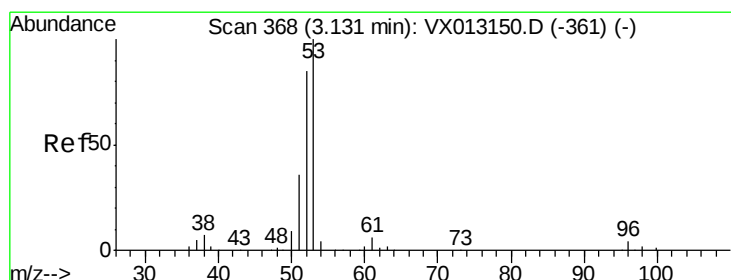
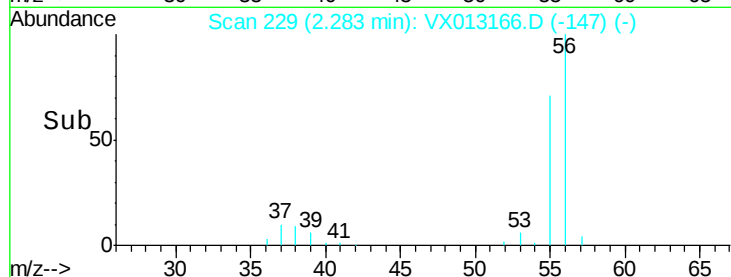
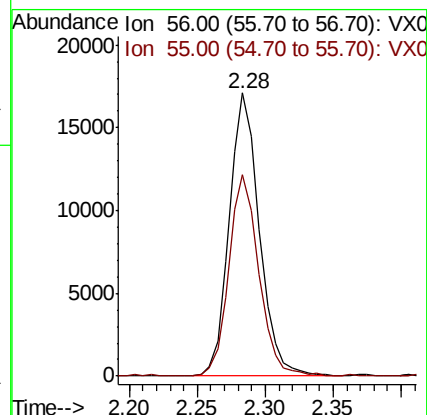
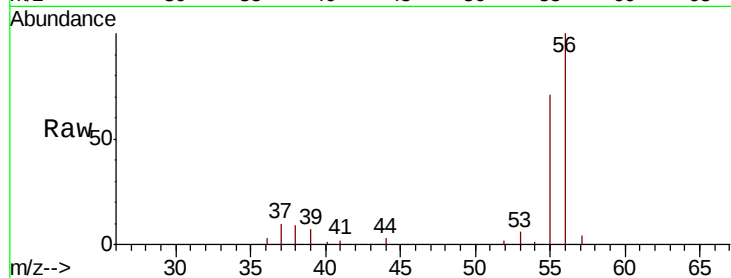
55 71.0 55.8 83.8

Manual Integrations

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#14

Acrylonitrile

Concen: 93.989 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

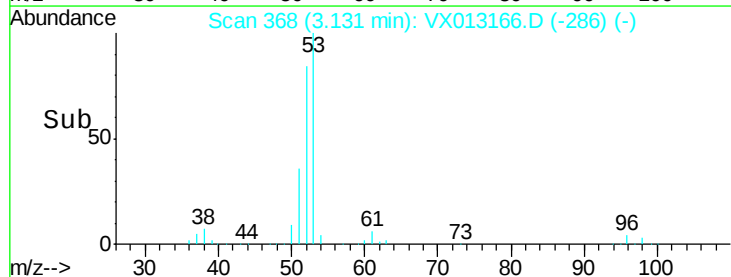
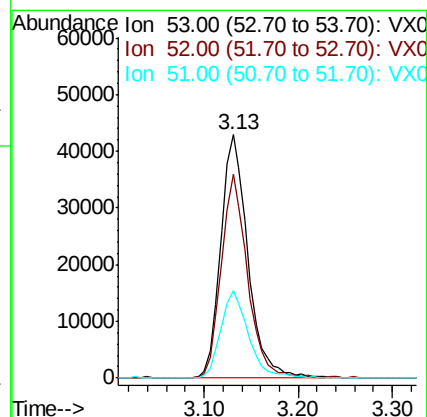
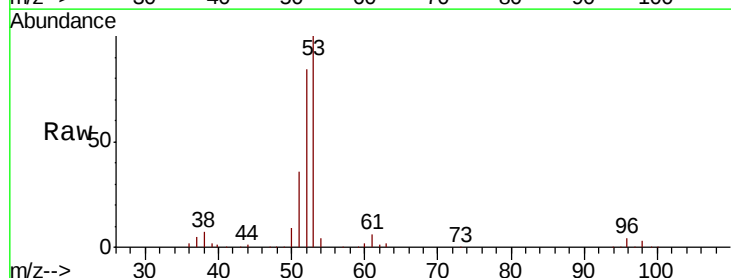
Tgt Ion: 53 Resp: 85786

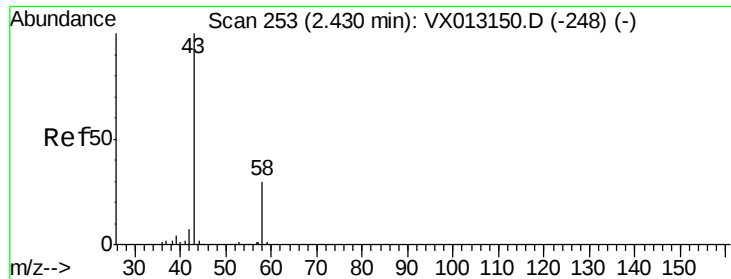
Ion Ratio Lower Upper

53 100

52 81.1 42.0 126.0

51 36.7 18.6 56.0





#15

Acetone

Concen: 78.990 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 23753

Ion Ratio Lower Upper

58 100

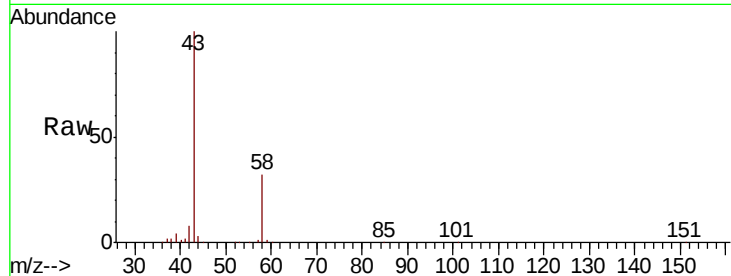
43 316.8 262.8 394.2

Manual Integrations

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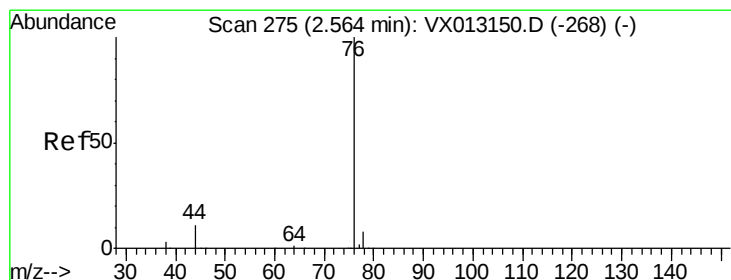
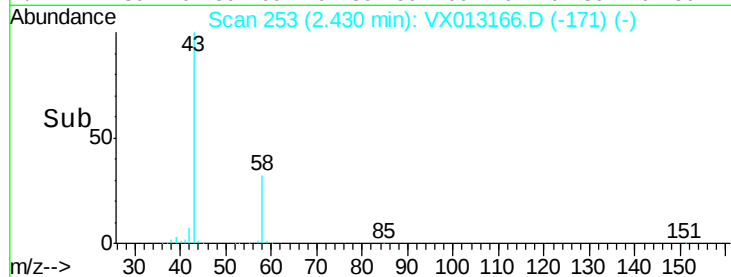
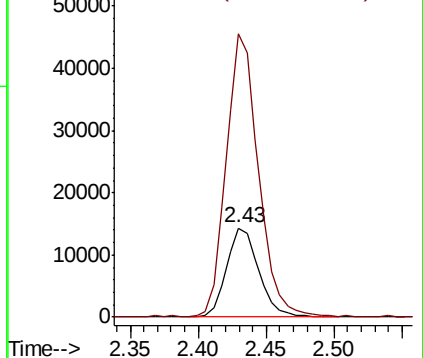
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Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 16.806 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX013166.D

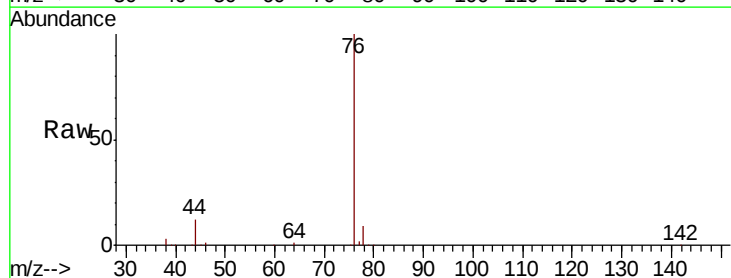
Acq: 21 Oct 2019 20:46

Tgt Ion: 76 Resp: 75852

Ion Ratio Lower Upper

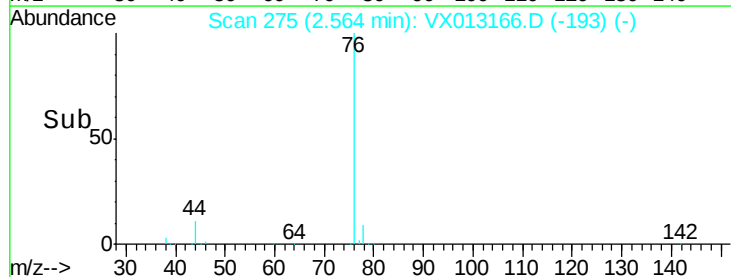
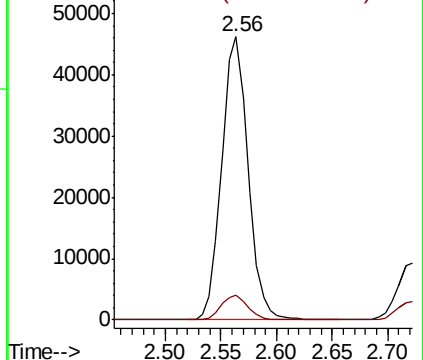
76 100

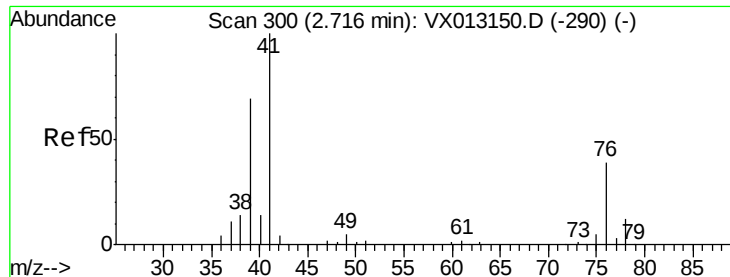
78 8.9 6.6 10.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#17

Allvl chloride

Concen: 17.461 ug/l

RT: 2.72 min Scan# 301

Delta R.T. 0.01 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 41 Resp: 46942

Ion Ratio Lower Upper

41 100

39 75.8 34.7 104.1

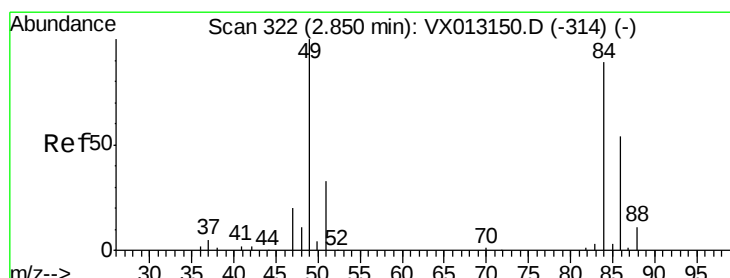
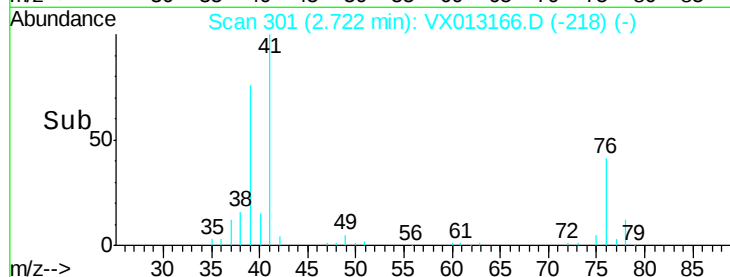
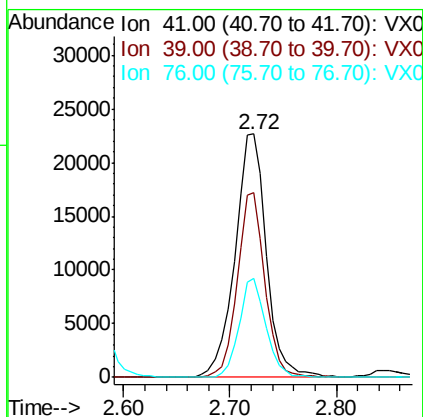
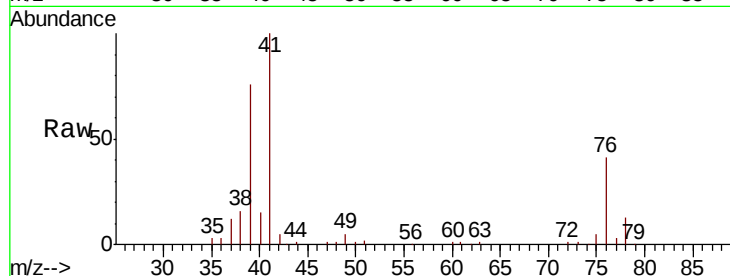
76 40.7 19.7 59.0

Manual Integrations

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#18

Methylene Chloride

Concen: 17.912 ug/l

RT: 2.85 min Scan# 322

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Tgt Ion: 84 Resp: 35053

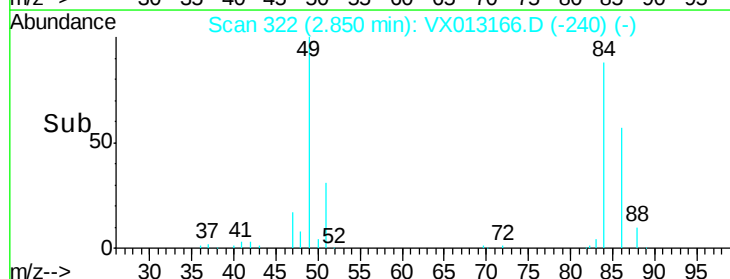
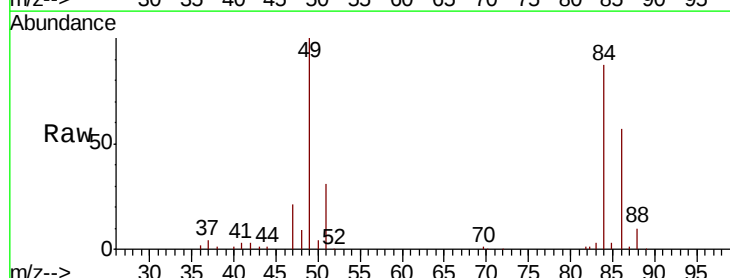
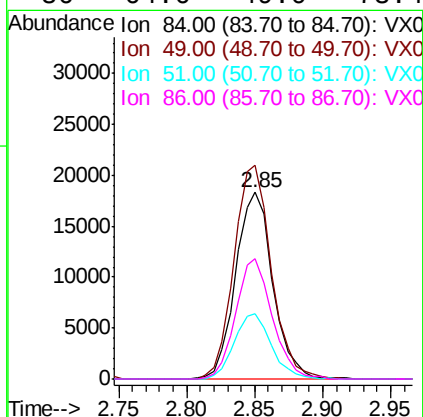
Ion Ratio Lower Upper

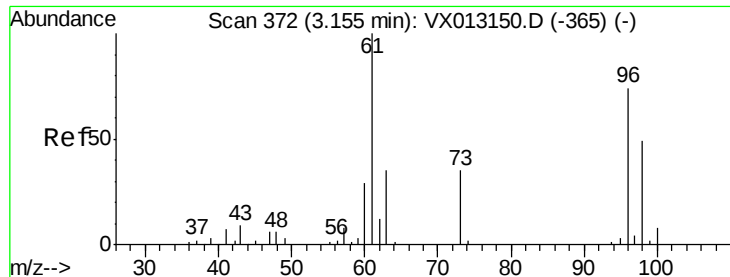
84 100

49 114.3 90.3 135.5

51 35.0 29.9 44.9

86 64.6 49.0 73.4





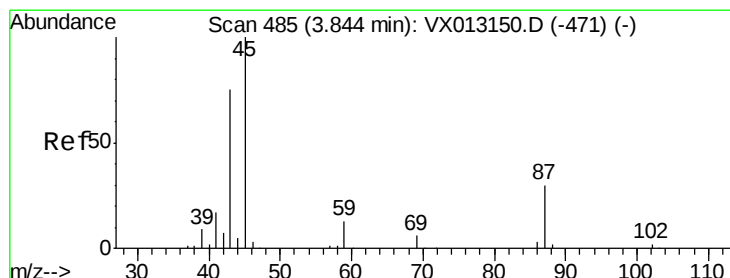
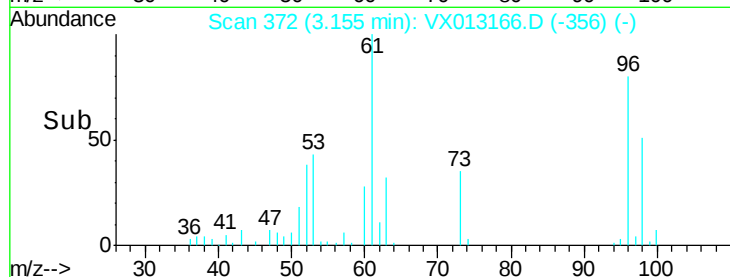
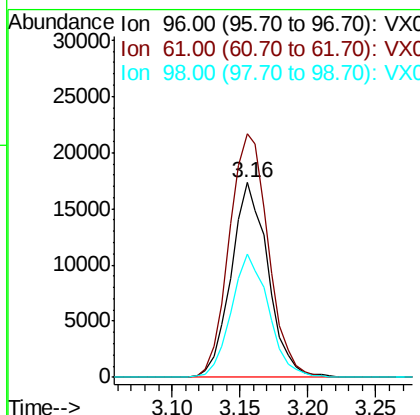
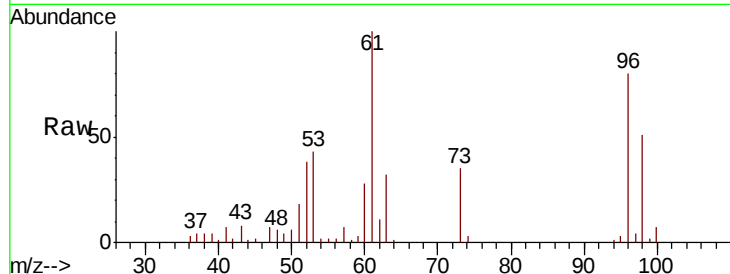
#19  
trans-1,2-Dichloroethene  
Concen: 18.286 ug/l  
RT: 3.16 min Scan# 372  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 125.3 | 108.6 | 162.8 |
| 98      | 63.7  | 53.4  | 80.0  |

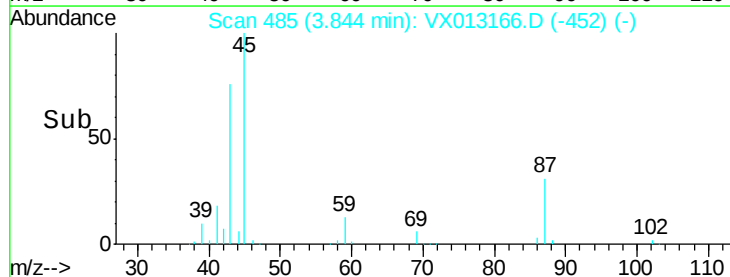
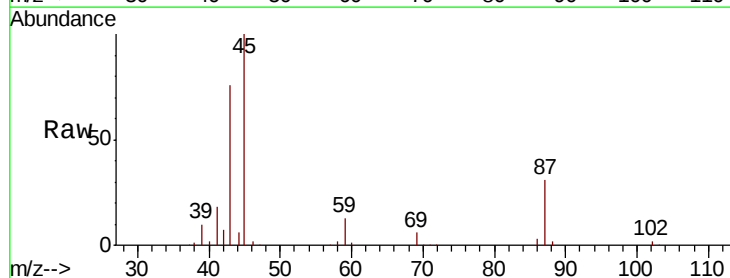
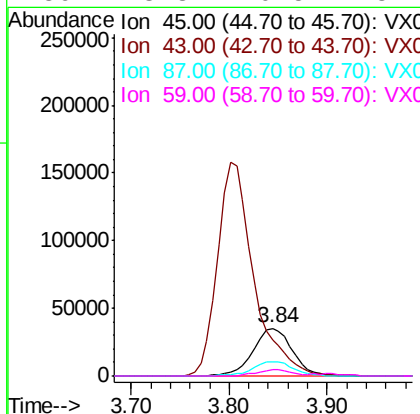
Manual Integrations  
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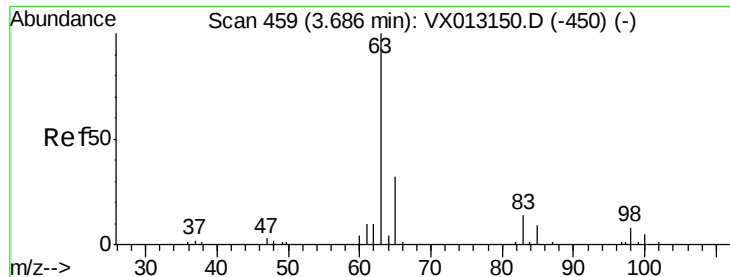
MMDadoda  
10/22/2019 12:32:37 PM



#20  
Diisopropyl ether  
Concen: 18.791 ug/l  
RT: 3.84 min Scan# 485  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 43      | 74.5  | 60.6  | 91.0  |
| 87      | 30.6  | 24.2  | 36.2  |
| 59      | 13.3  | 10.5  | 15.7  |





#21

1,1-Dichloroethane

Concen: 18.129 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

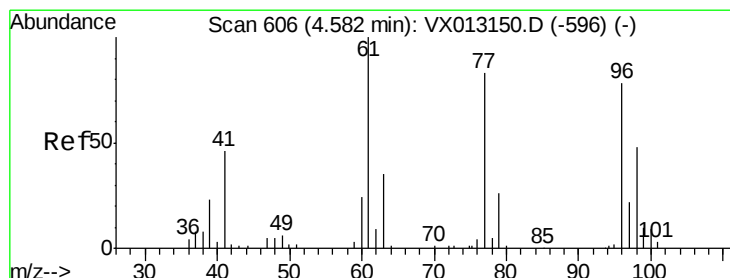
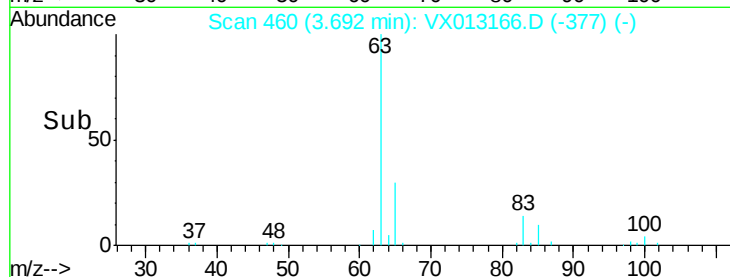
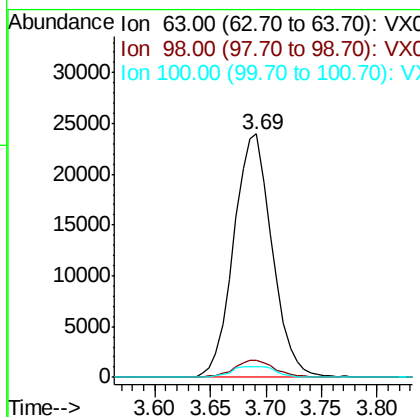
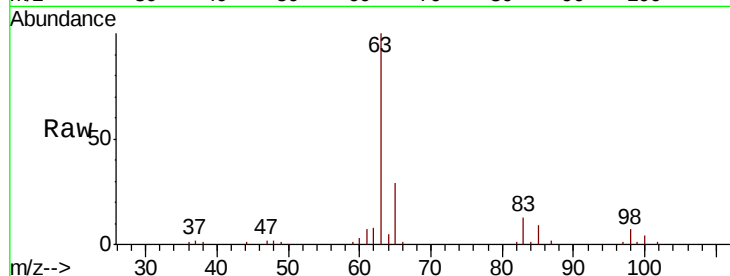
ClientSampleId :

VSTDCCC020EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 57234 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 7.2   | 4.2   | 12.4  |
| 100      | 4.5   | 2.4   | 7.2   |

Manual Integrations  
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10/22/2019 12:32:37 PM



#22

cis-1,2-Dichloroethene

Concen: 18.432 ug/l

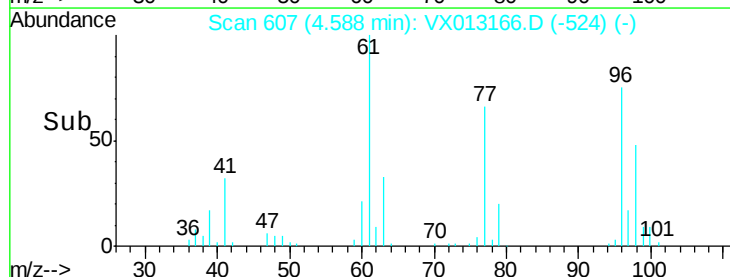
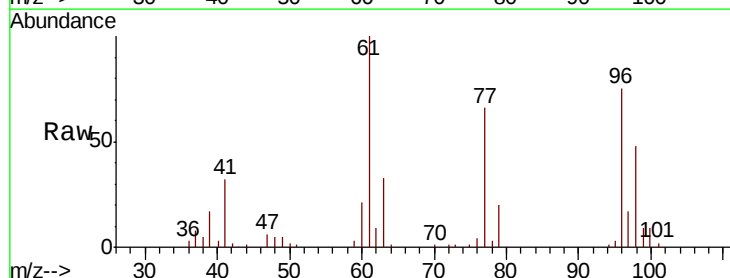
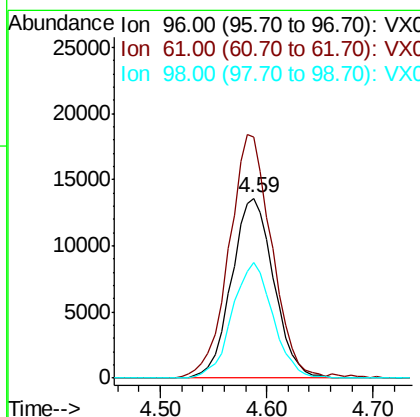
RT: 4.59 min Scan# 607

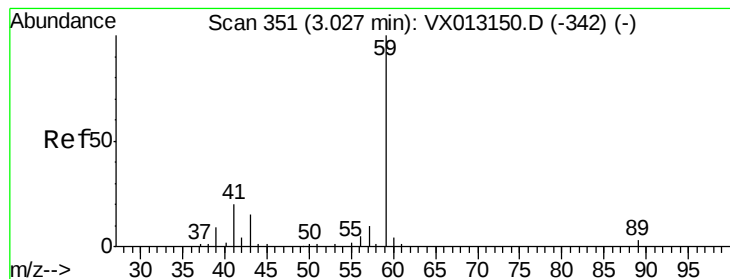
Delta R.T. 0.01 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 37695 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 137.0 | 112.5 | 168.7 |
| 98       | 62.2  | 51.2  | 76.8  |





#23

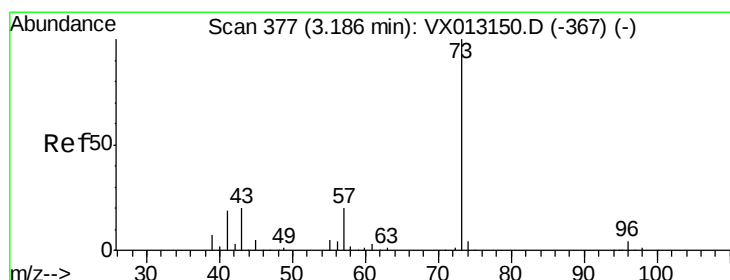
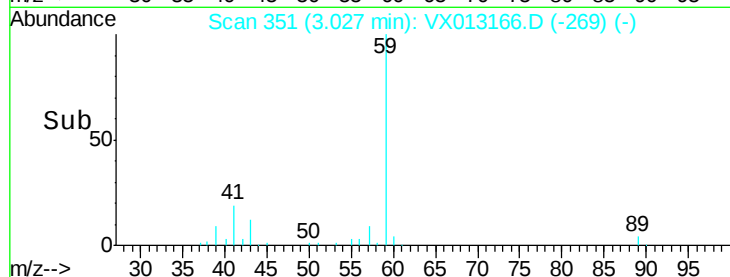
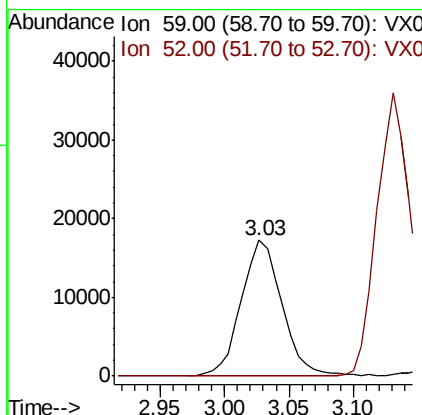
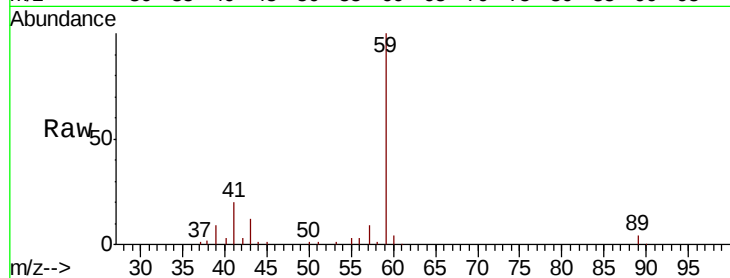
tert-Butyl Alcohol  
Concen: 78.399 ug/l  
RT: 3.03 min Scan# 351  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 52      | 0.0   | 0.0   | 0.0   |

Manual Integrations  
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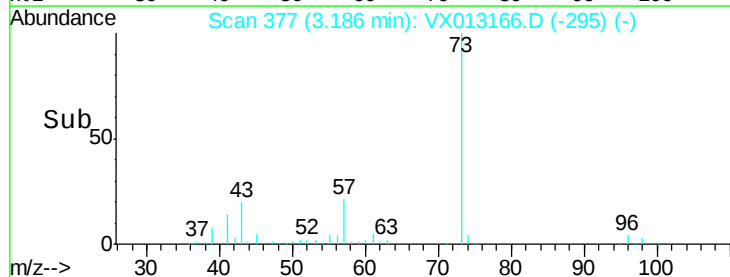
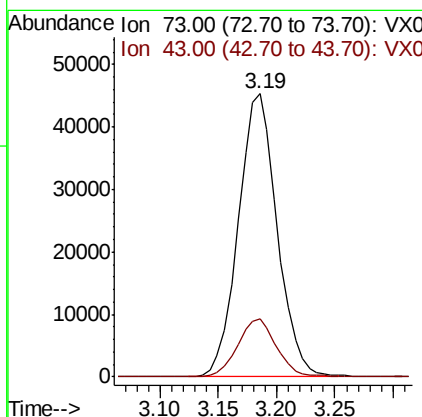
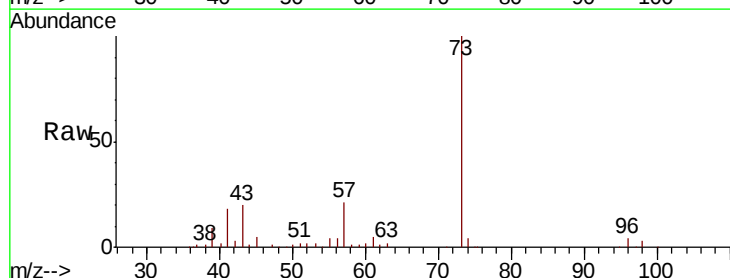
MMDadoda  
10/22/2019 12:32:37 PM

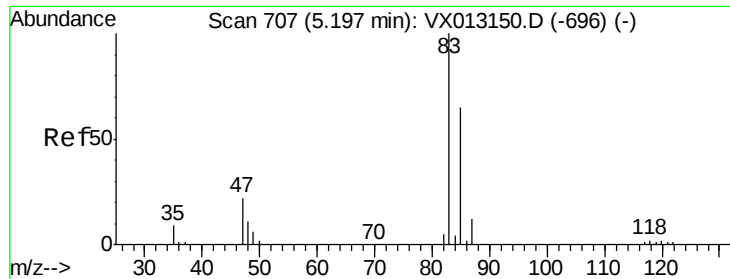


#24

Methyl tert-Butyl Ether  
Concen: 18.024 ug/l  
RT: 3.19 min Scan# 377  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 20.4  | 17.1  | 25.7  |





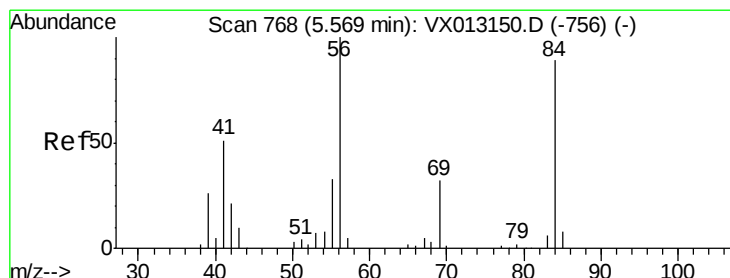
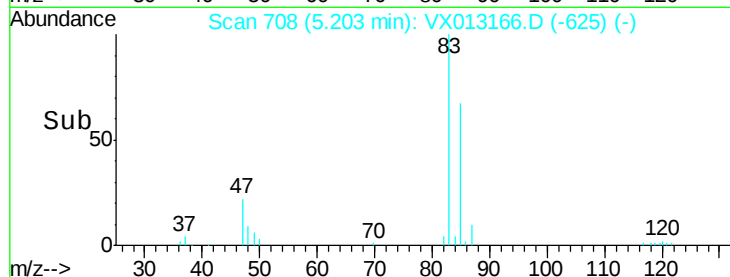
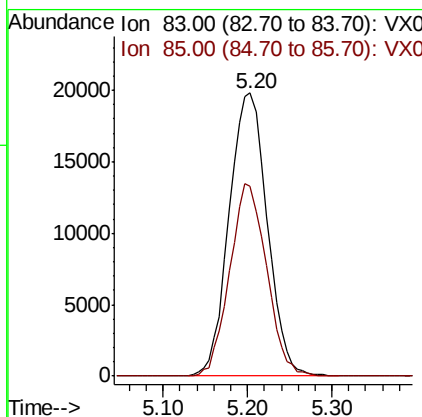
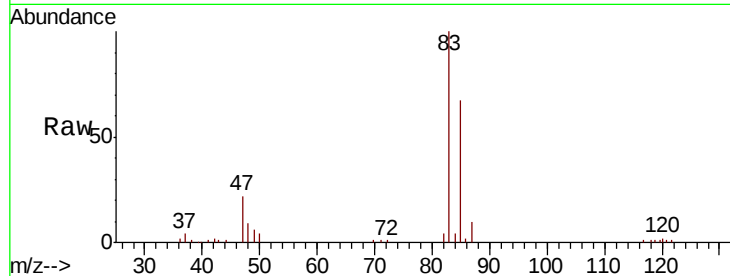
#25  
Chloroform  
Concen: 18.334 ug/l  
RT: 5.20 min Scan# 708  
Delta R.T. 0.01 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

Tot Ion: 83 Resp: 60824  
Ion Ratio Lower Upper  
83 100  
85 67.0 52.0 78.0

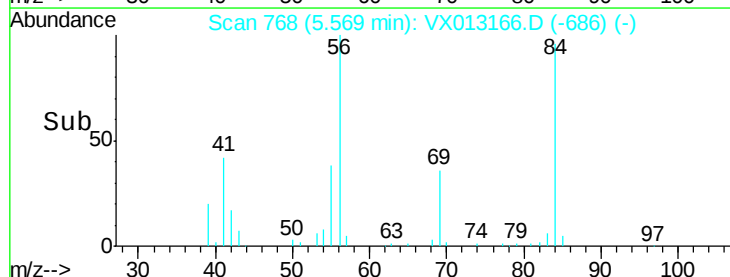
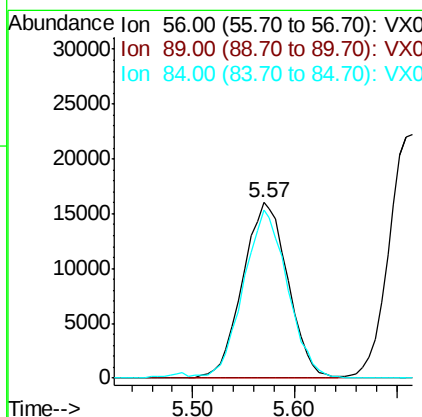
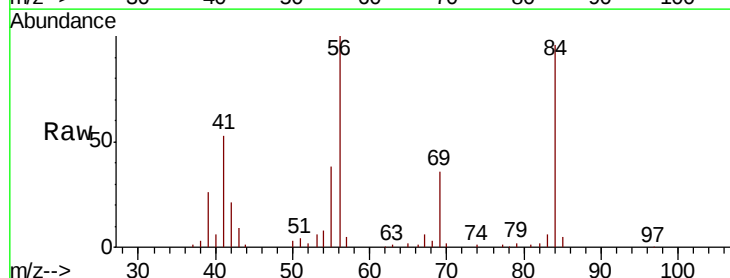
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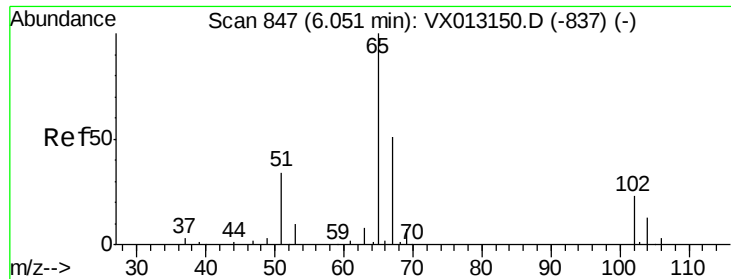
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#26  
Cyclohexane  
Concen: 17.792 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Tgt Ion: 56 Resp: 49287  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.2 0.2#  
84 93.7 74.0 111.0





#27

1,2-Dichloroethane-d4

Concen: 28.318 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 65 Resp: 61416

Ion Ratio Lower Upper

65 100

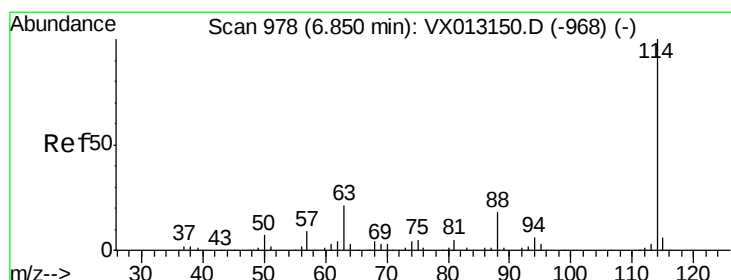
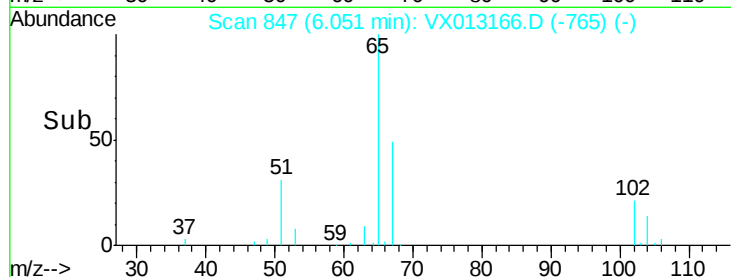
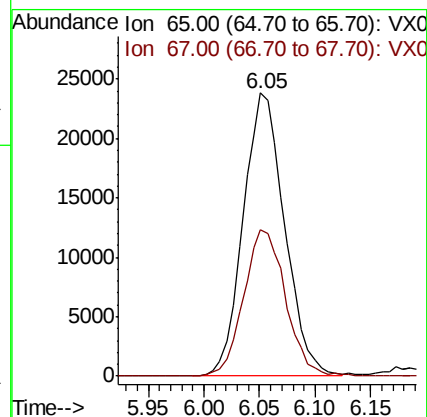
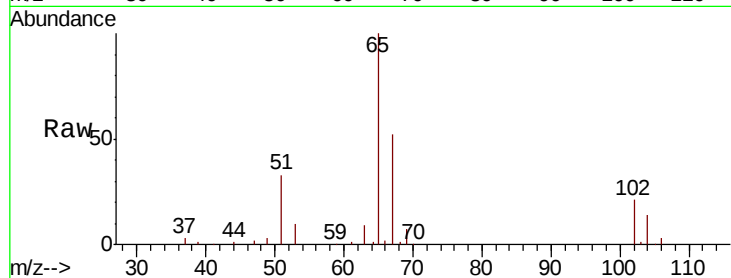
67 52.2 42.2 63.4

Manual Integrations

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

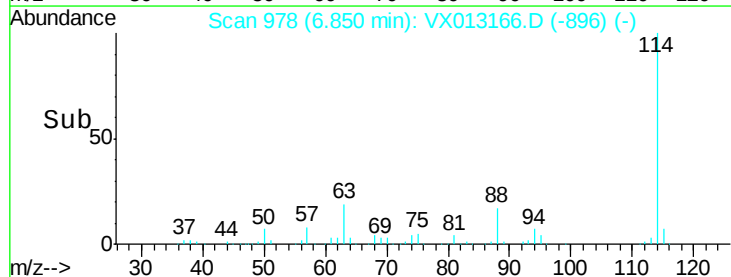
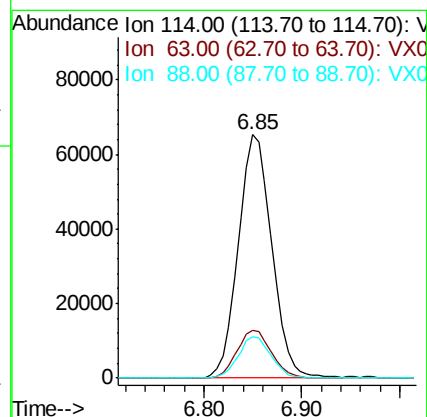
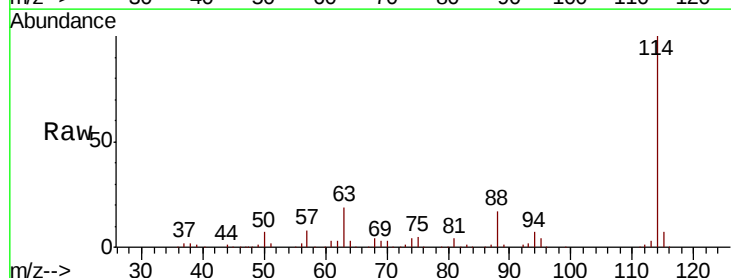
Tgt Ion: 114 Resp: 155172

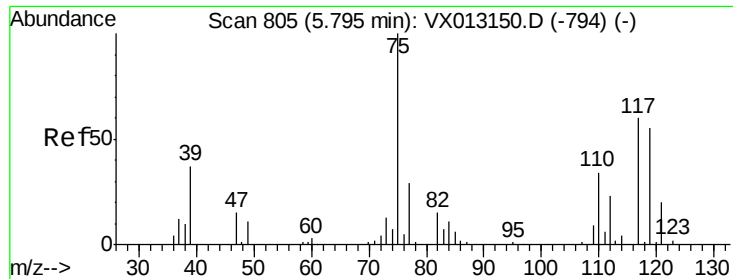
Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

88 16.9 13.7 20.5





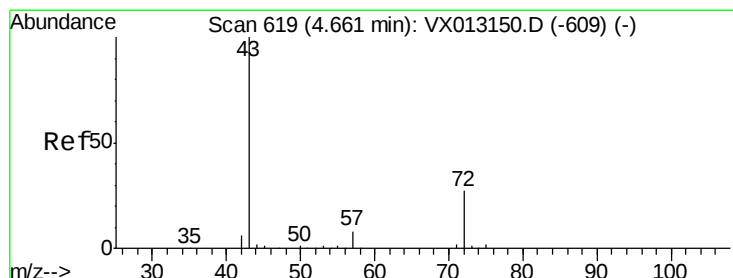
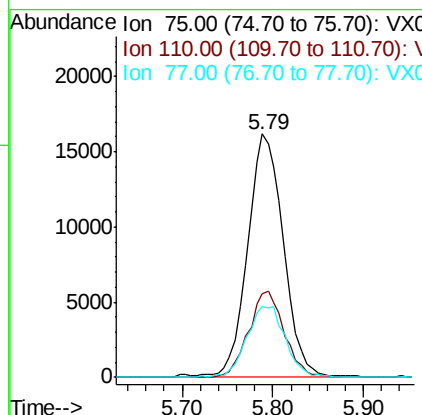
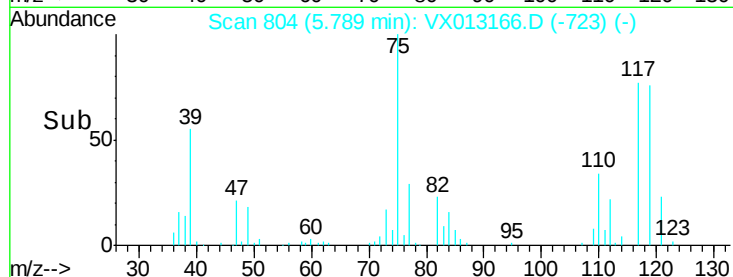
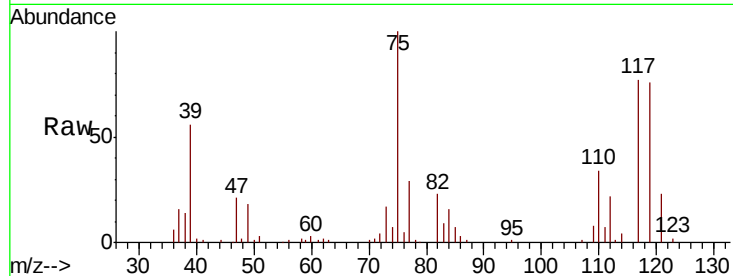
#29  
 1,1-Dichloropropene  
 Concen: 18.371 ug/l  
 RT: 5.79 min Scan# 804  
 Delta R.T. -0.01 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.2  | 0.0   | 68.4  |
| 77      | 31.5  | 0.0   | 30.8  |

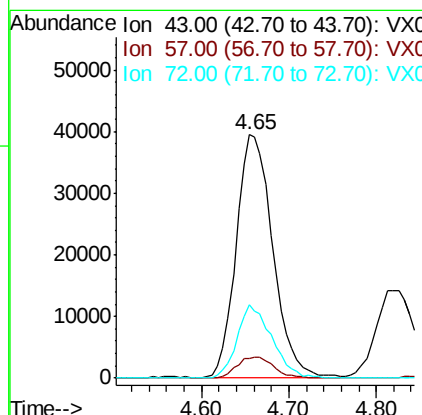
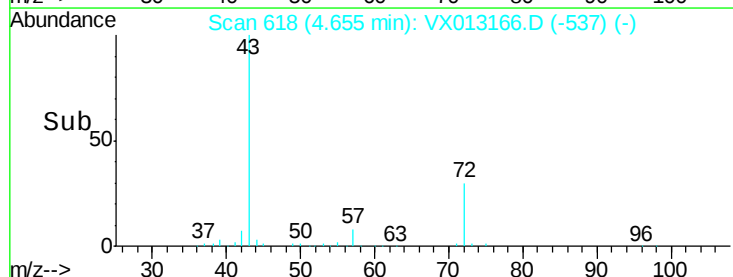
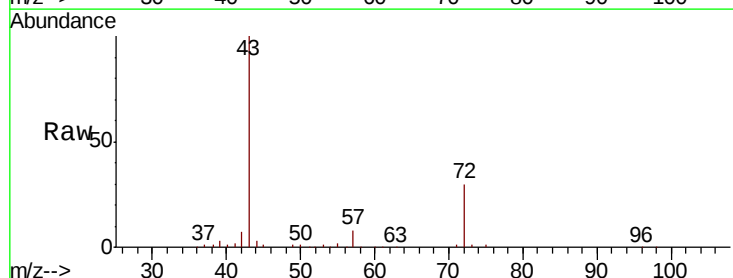
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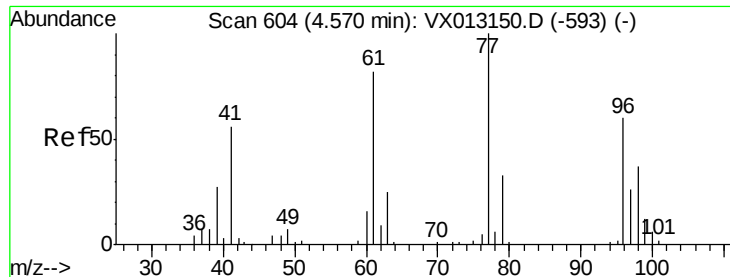
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#30  
 2-Butanone  
 Concen: 90.376 ug/l  
 RT: 4.65 min Scan# 618  
 Delta R.T. -0.01 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.7   | 7.0   | 10.6  |
| 72      | 27.6  | 23.4  | 35.2  |





#31

2,2-Dichloropropane

Concen: 16.465 ug/l

RT: 4.57 min Scan# 604

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 77 Resp: 45889

Ion Ratio Lower Upper

77 100

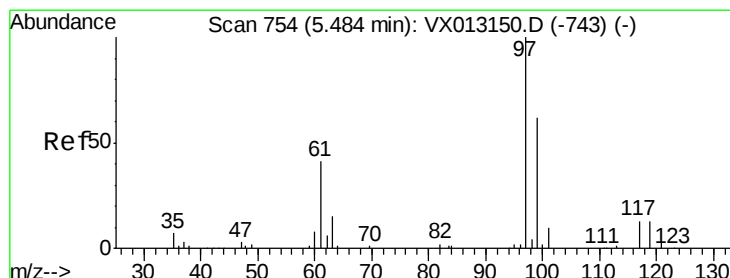
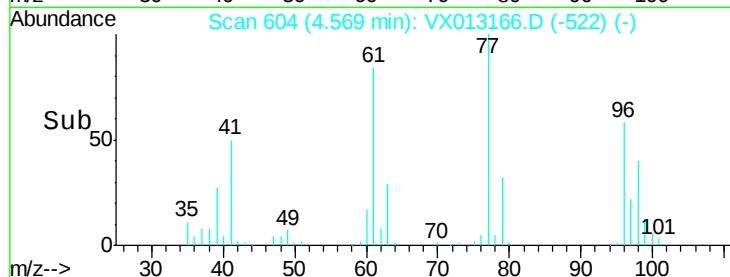
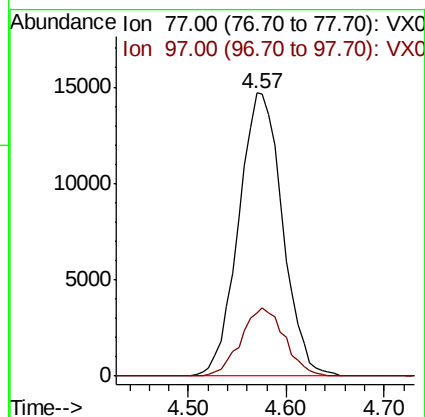
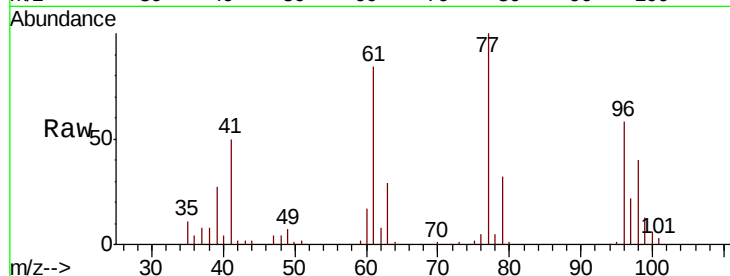
97 23.9 19.1 28.7

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#32

1,1,1-Trichloroethane

Concen: 18.226 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

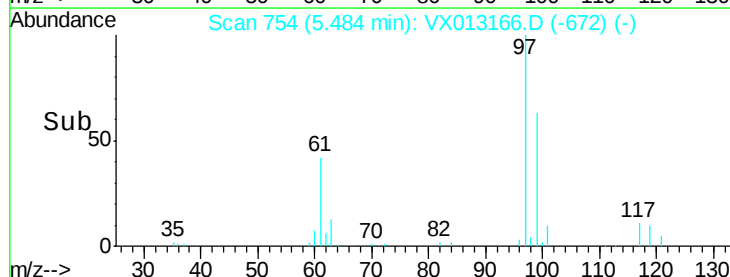
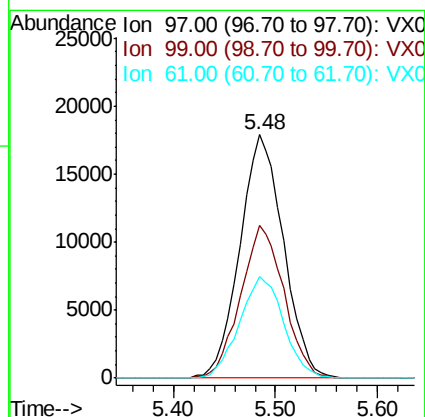
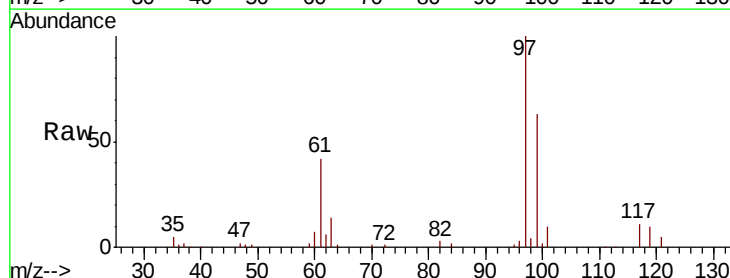
Tgt Ion: 97 Resp: 53164

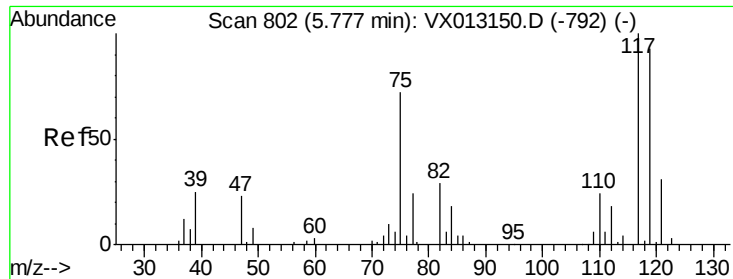
Ion Ratio Lower Upper

97 100

99 62.3 51.8 77.8

61 42.3 33.5 50.3





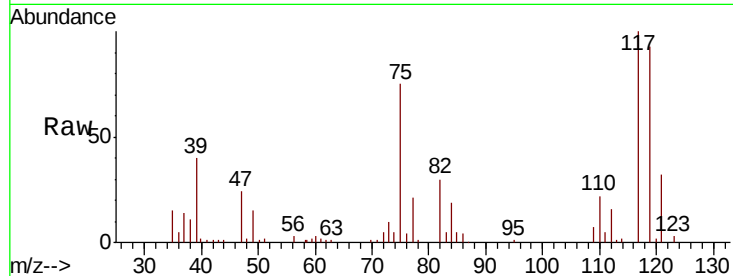
#33  
Carbon Tetrachloride  
Concen: 17.685 ug/l  
RT: 5.78 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

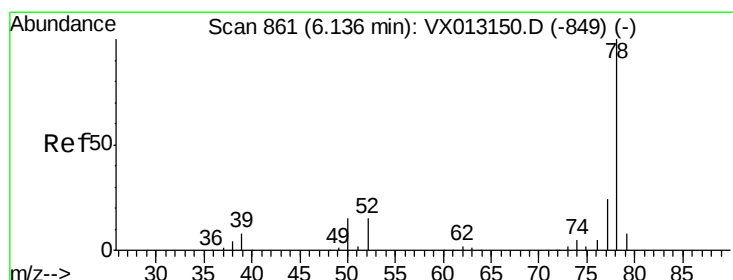
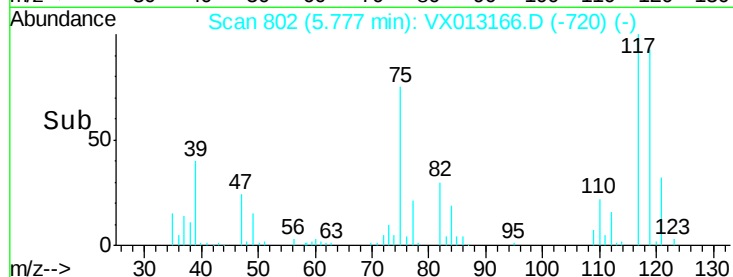
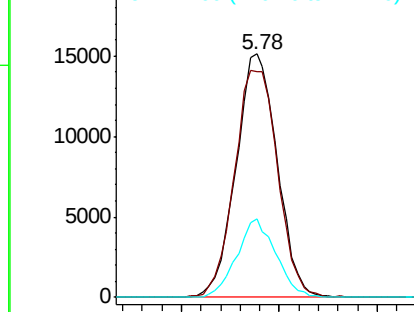
Tot Ion:117 Resp: 44338  
Ion Ratio Lower Upper  
117 100  
119 92.2 74.9 112.3  
121 32.2 25.0 37.4

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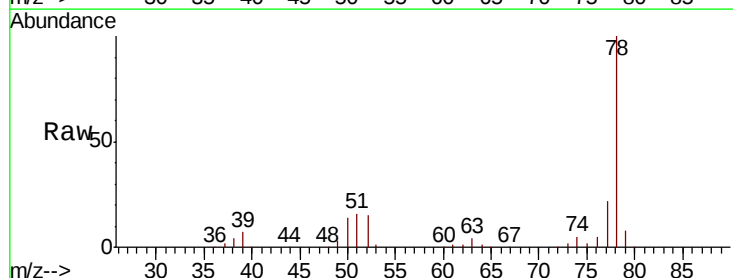


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V

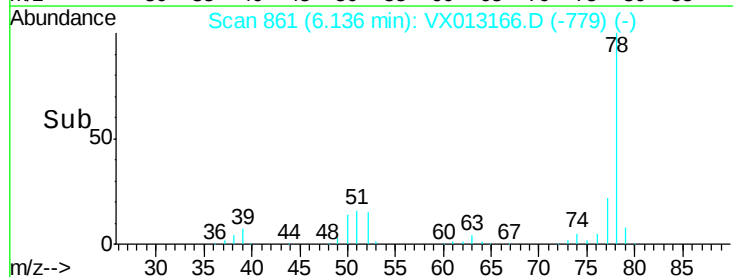
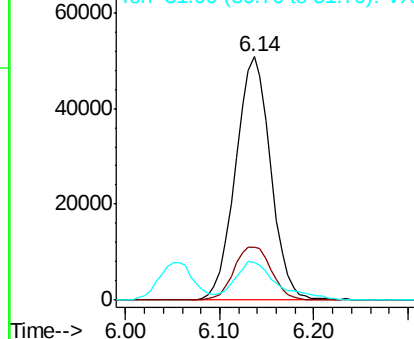


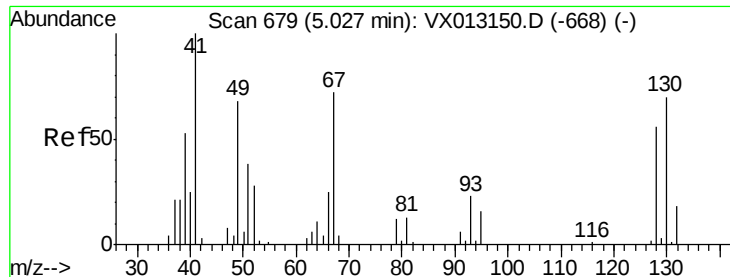
#34  
Benzene  
Concen: 19.008 ug/l  
RT: 6.14 min Scan# 861  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Tgt Ion: 78 Resp: 131910  
Ion Ratio Lower Upper  
78 100  
77 21.8 19.3 28.9  
51 15.4 11.4 17.2



Abundance Ion 78.10 (77.80 to 78.80): VX0  
Ion 77.00 (76.70 to 77.70): VX0  
Ion 51.00 (50.70 to 51.70): VX0





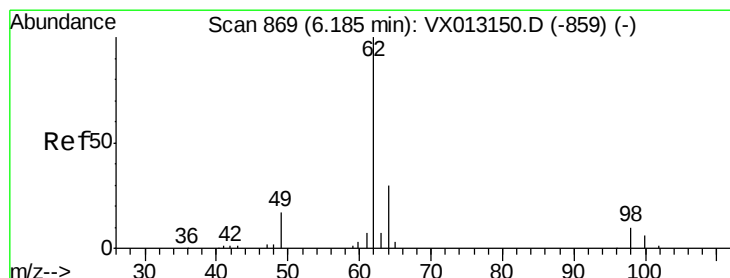
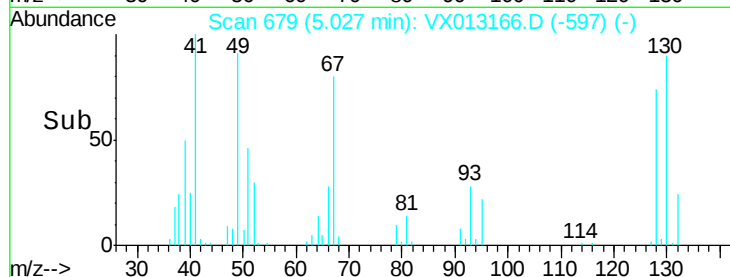
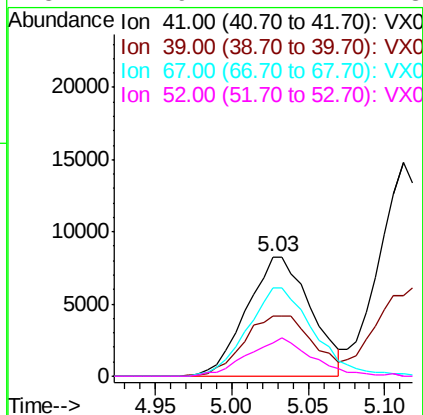
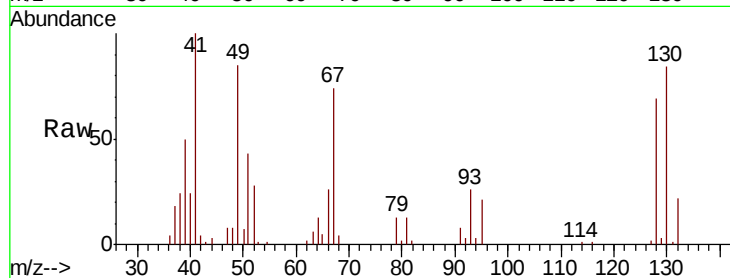
#35  
Methacrylonitrile  
Concen: 18.626 ug/l  
RT: 5.03 min Scan# 679  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 24154 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 49.4  | 26.3  | 78.9  |
| 67       | 74.4  | 35.8  | 107.4 |
| 52       | 27.9  | 14.1  | 42.3  |

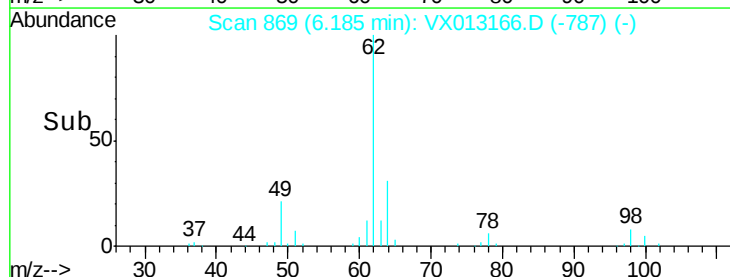
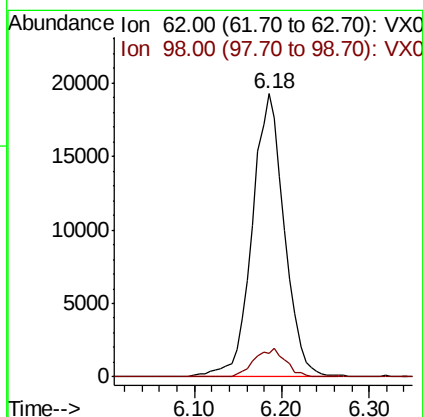
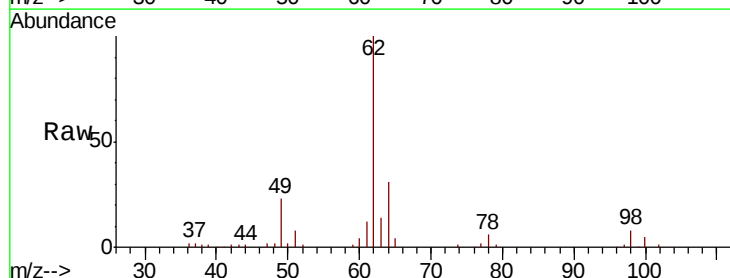
Manual Integrations  
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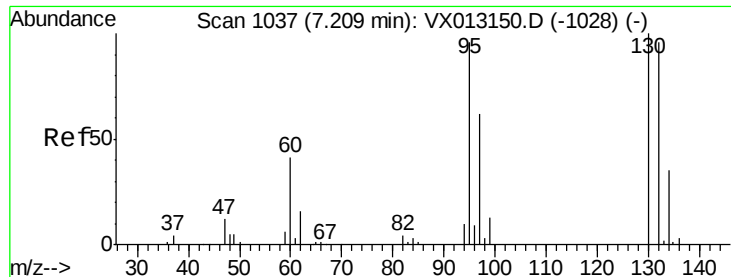
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#36  
1,2-Dichloroethane  
Concen: 18.831 ug/l  
RT: 6.18 min Scan# 869  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 49399 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.7   | 8.0   | 12.0  |





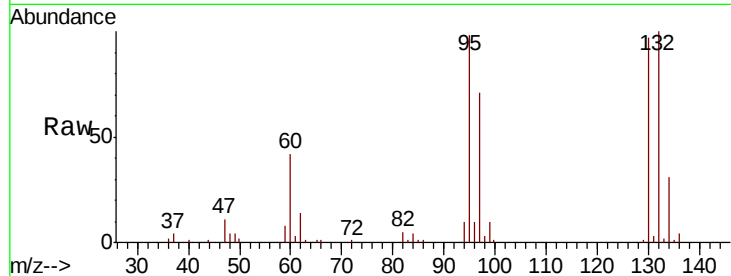
#37  
 Trichloroethene  
 Concen: 18.623 ug/l  
 RT: 7.21 min Scan# 1037  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

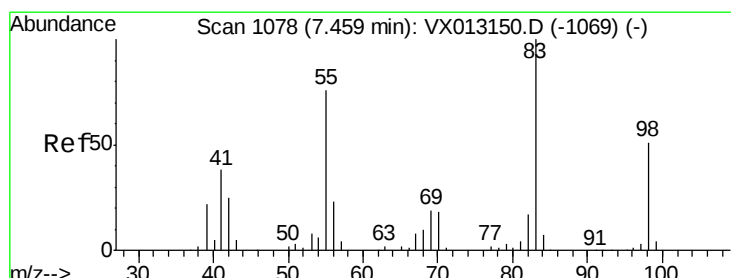
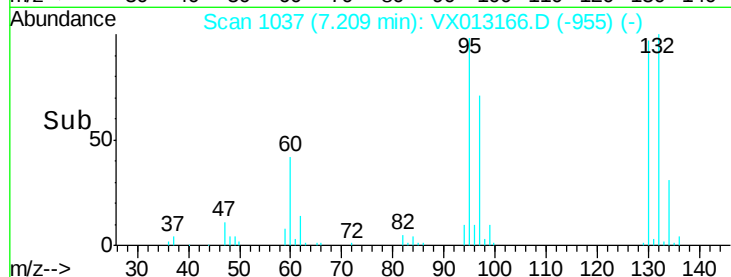
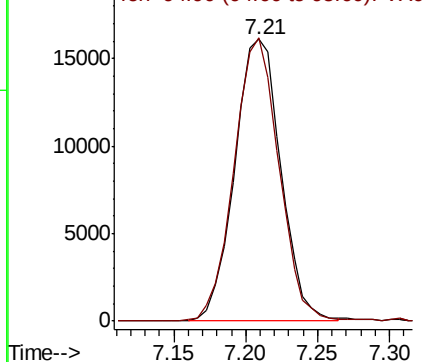
Tot Ion:130 Resp: 35848  
 Ion Ratio Lower Upper  
 130 100  
 95 99.8 77.0 115.6

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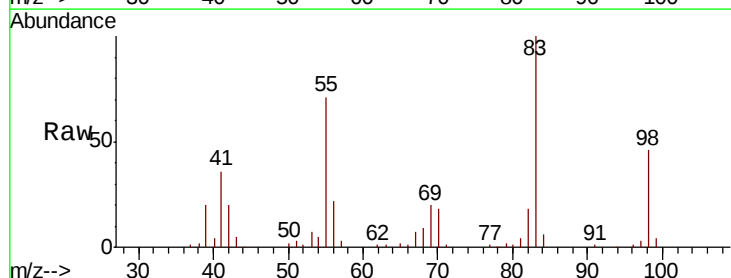


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VX0

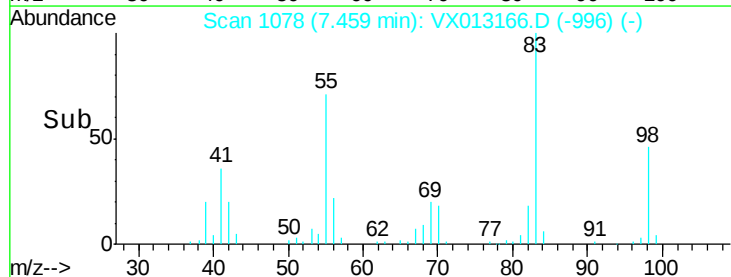
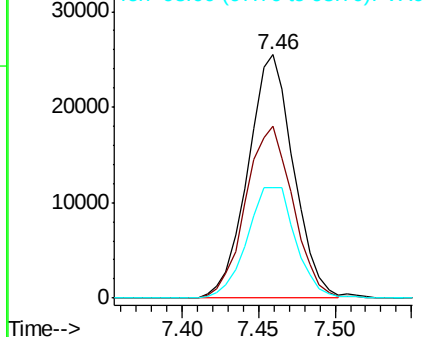


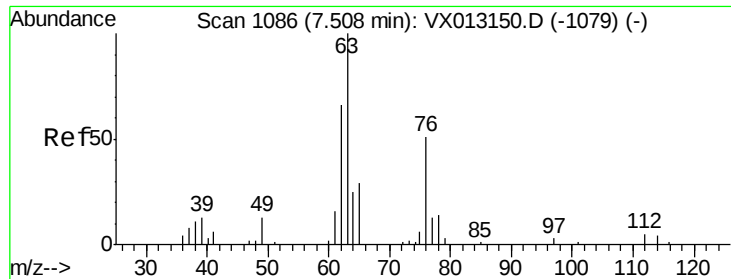
#38  
 Methylcyclohexane  
 Concen: 17.997 ug/l  
 RT: 7.46 min Scan# 1078  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Tgt Ion: 83 Resp: 52910  
 Ion Ratio Lower Upper  
 83 100  
 55 73.5 37.5 112.5  
 98 48.4 25.4 76.0



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





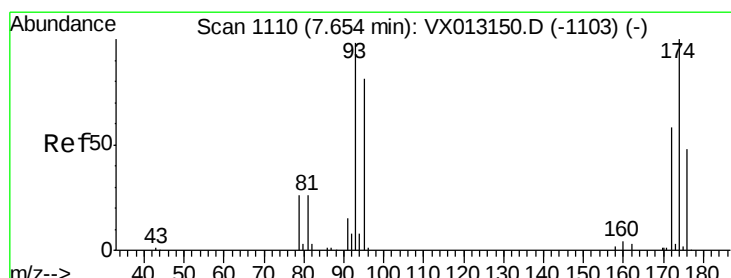
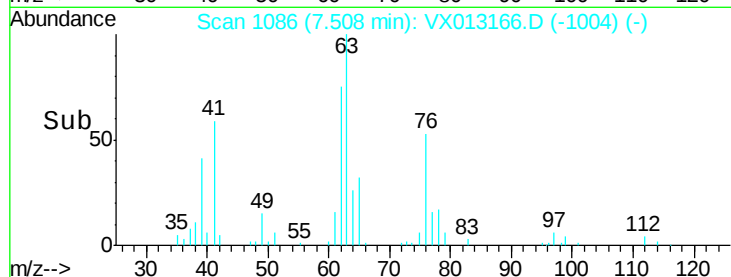
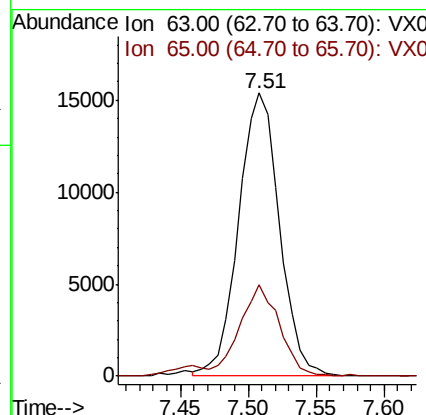
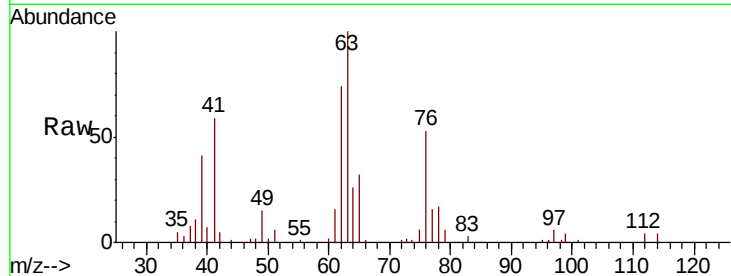
#39  
 1,2-Dichloropropane  
 Concen: 18.988 ug/l  
 RT: 7.51 min Scan# 1086  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.1  | 24.8  | 37.2  |

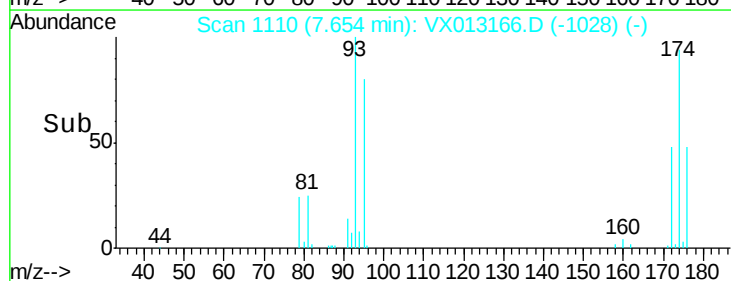
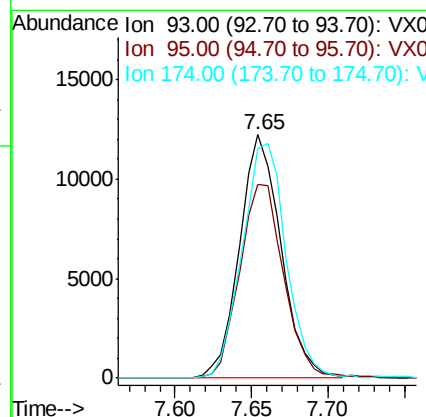
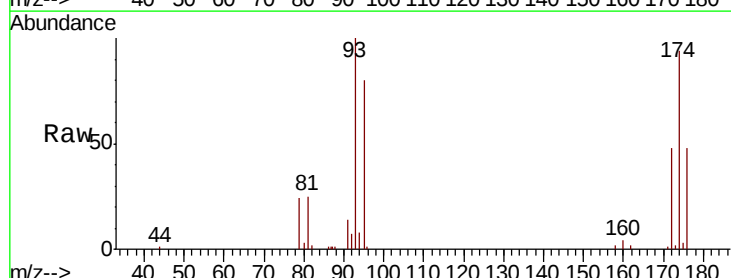
Manual Integrations  
 APPROVED

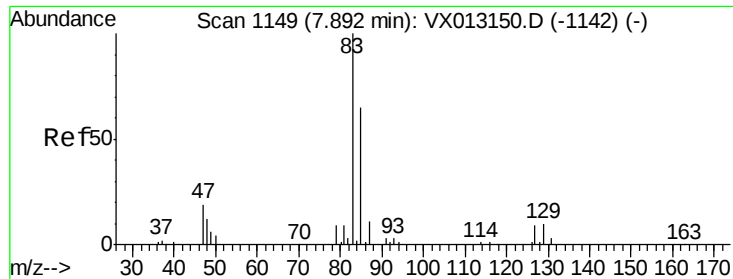
MMDadoda  
 10/22/2019 12:32:37 PM



#40  
 Dibromomethane  
 Concen: 18.935 ug/l  
 RT: 7.65 min Scan# 1110  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 84.7  | 0.0   | 166.0 |
| 174     | 102.1 | 0.0   | 208.8 |





#41

Bromodichloromethane

Concen: 18.138 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 83 Resp: 44498

Ion Ratio Lower Upper

83 100

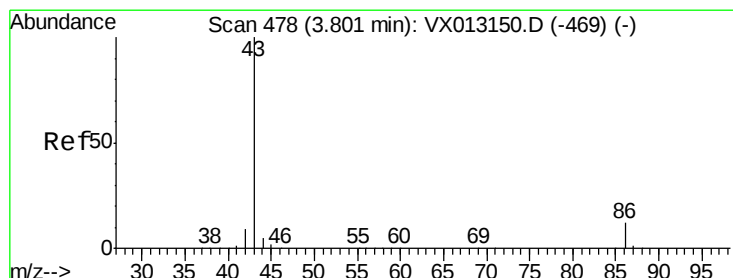
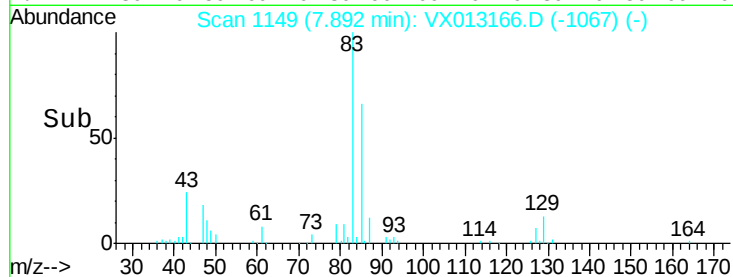
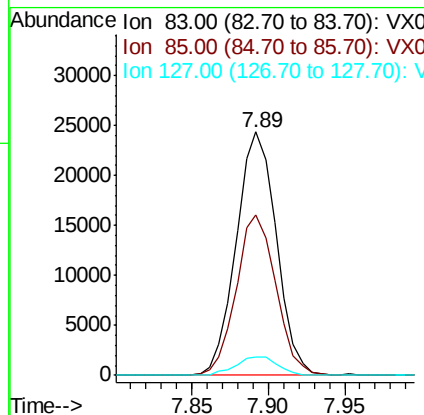
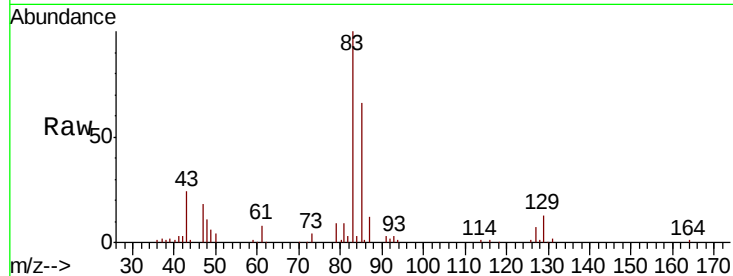
85 65.8 52.1 78.1

127 7.5 7.5 11.3#

Manual Integrations  
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#42

Vinyl Acetate

Concen: 93.329 ug/l

RT: 3.80 min Scan# 478

Delta R.T. -0.00 min

Lab File: VX013166.D

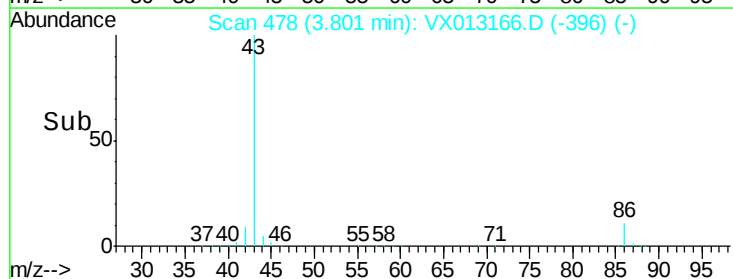
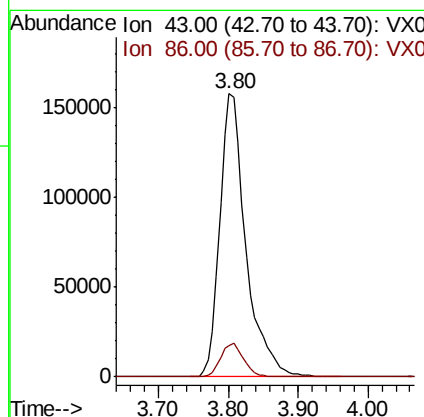
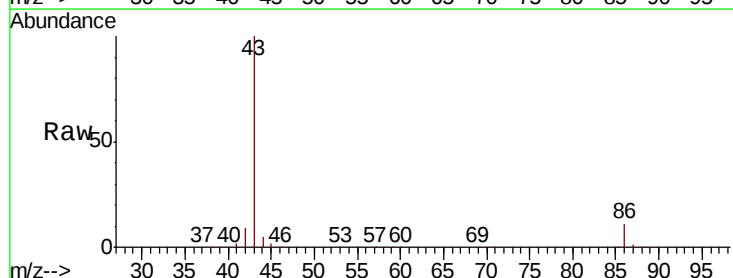
Acq: 21 Oct 2019 20:46

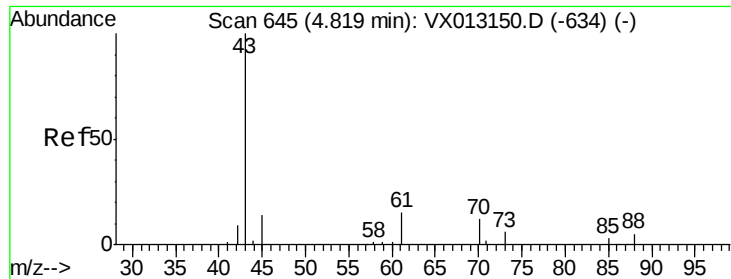
Tgt Ion: 43 Resp: 409234

Ion Ratio Lower Upper

43 100

86 10.6 8.6 12.8





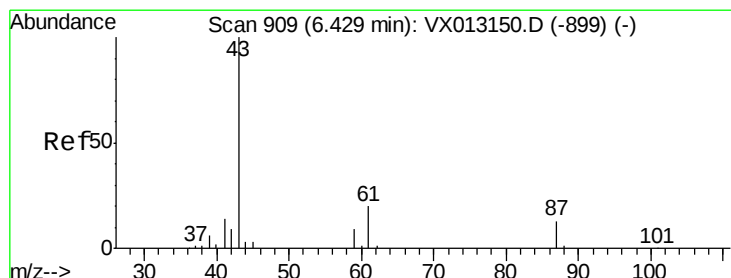
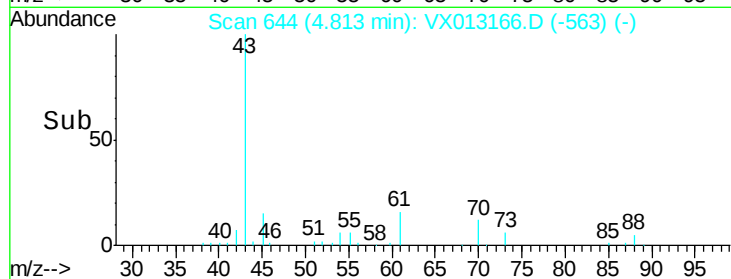
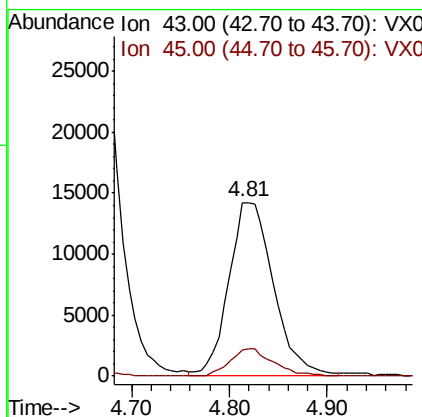
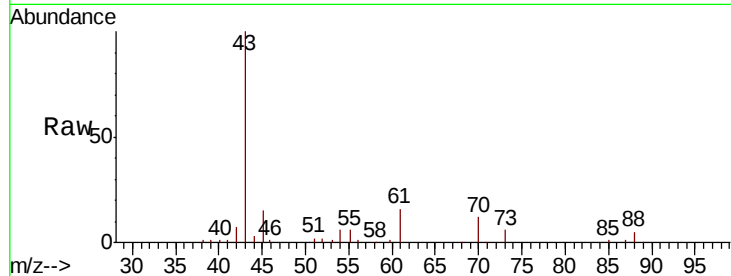
#43  
Ethyl Acetate  
Concen: 19.721 ug/l  
RT: 4.81 min Scan# 644  
Delta R.T. -0.01 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

Tot Ion: 43 Resp: 45482  
Ion Ratio Lower Upper  
43 100  
45 14.7 12.6 18.8

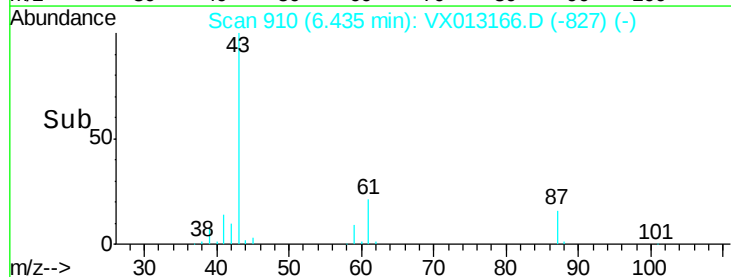
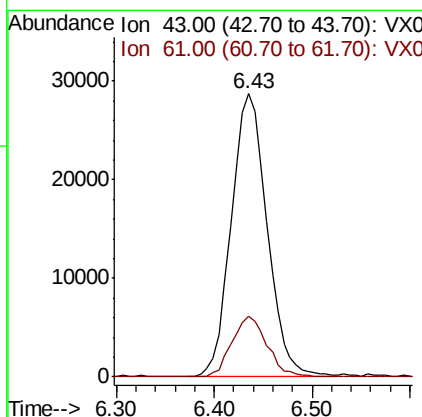
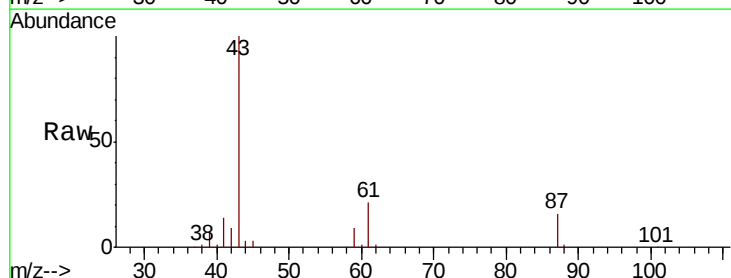
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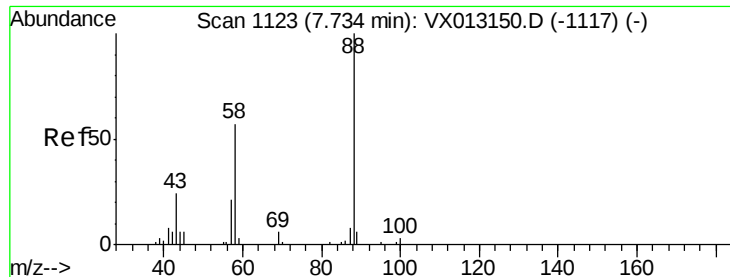
MMDadoda  
10/22/2019 12:32:37 PM



#44  
Isopropyl Acetate  
Concen: 18.960 ug/l  
RT: 6.43 min Scan# 910  
Delta R.T. 0.01 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Tgt Ion: 43 Resp: 73490  
Ion Ratio Lower Upper  
43 100  
61 20.9 16.8 25.2





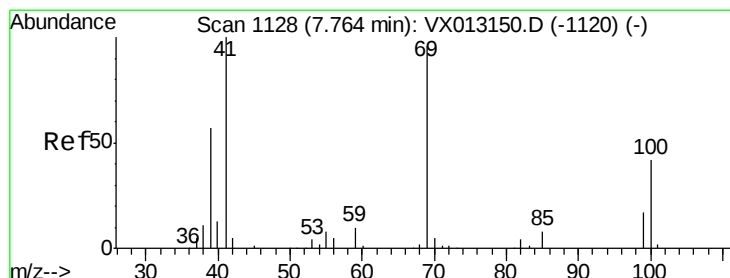
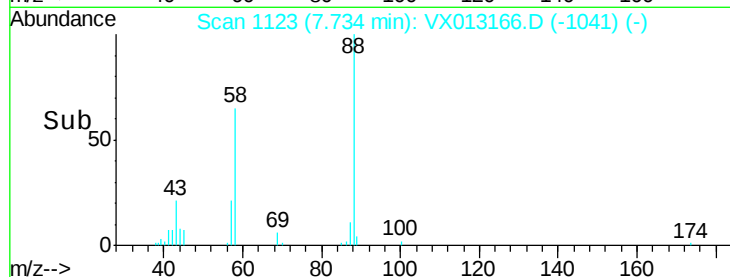
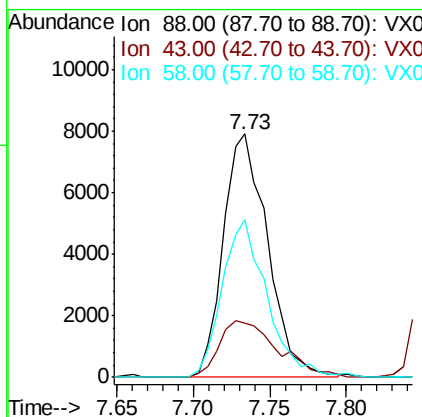
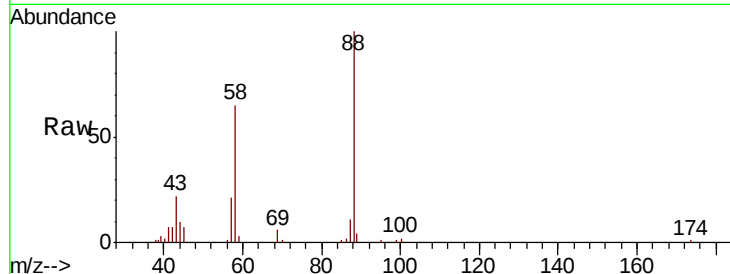
#45  
1,4-Dioxane  
Concen: 324.037 ug/l  
RT: 7.73 min Scan# 1123  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 30.7  | 24.0  | 36.0  |
| 58      | 65.3  | 52.8  | 79.2  |

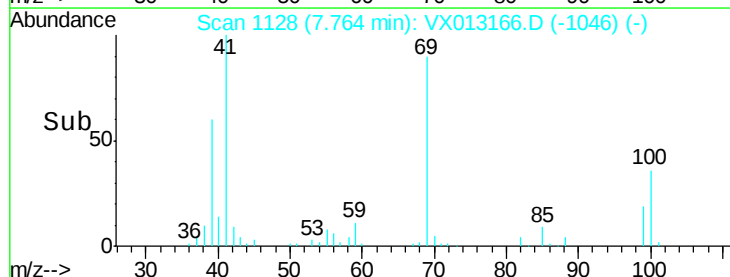
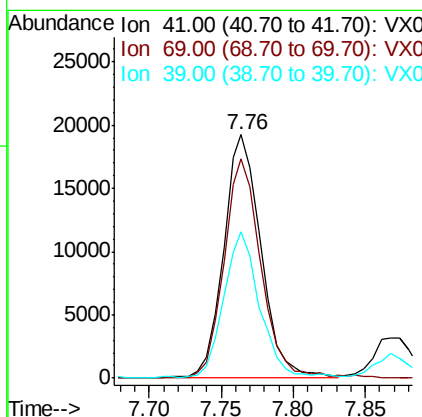
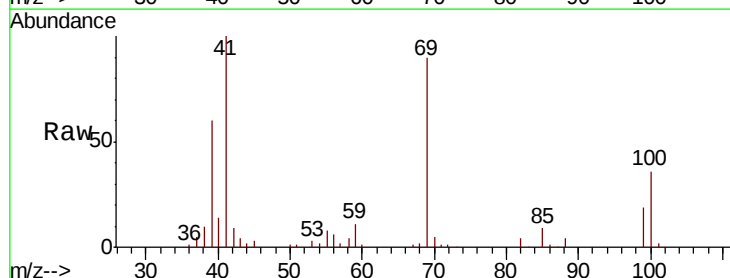
Manual Integrations  
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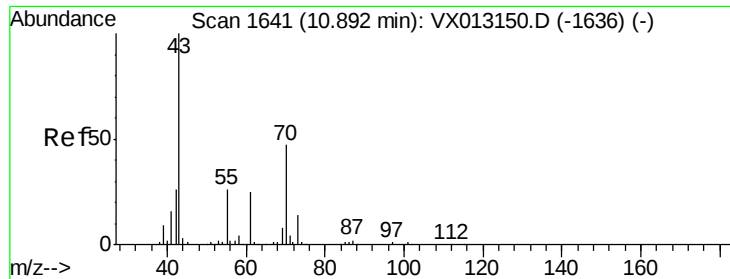
MMDadoda  
10/22/2019 12:32:37 PM



#46  
Methyl methacrylate  
Concen: 18.303 ug/l  
RT: 7.76 min Scan# 1128  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 90.5  | 47.8  | 143.3 |
| 39      | 60.0  | 28.5  | 85.5  |





#47

n-amvl Acetate

Concen: 18.186 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 59419

Ion Ratio Lower Upper

43 100

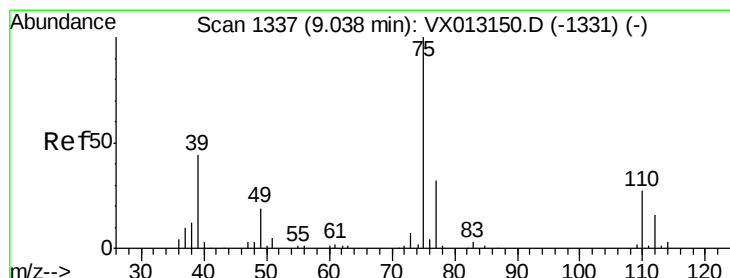
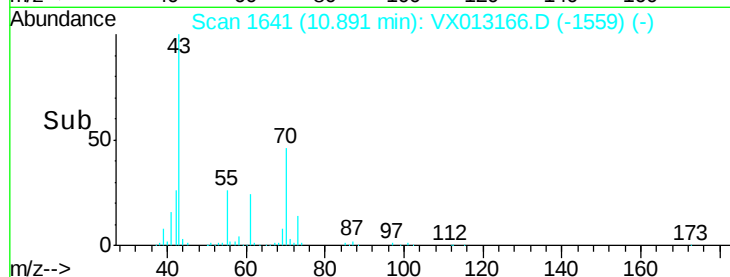
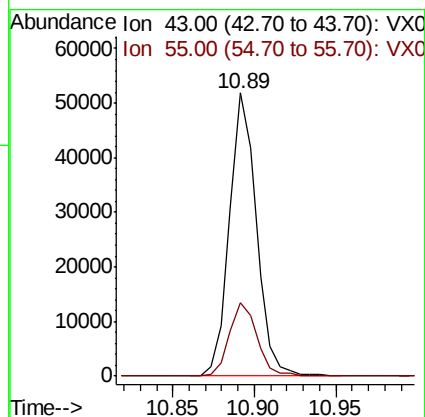
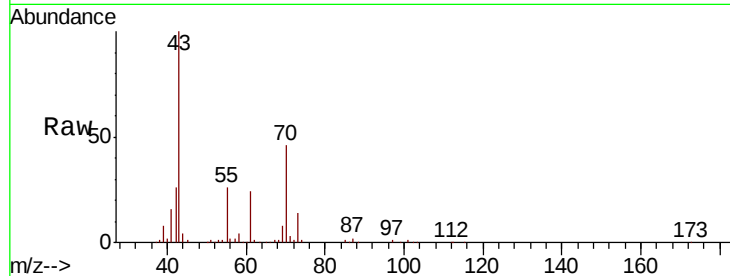
55 26.8 20.9 31.3

Manual Integrations

APPROVED

MMDadoda

10/22/2019 12:32:37 PM



#48

t-1,3-Dichloropropene

Concen: 17.662 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VX013166.D

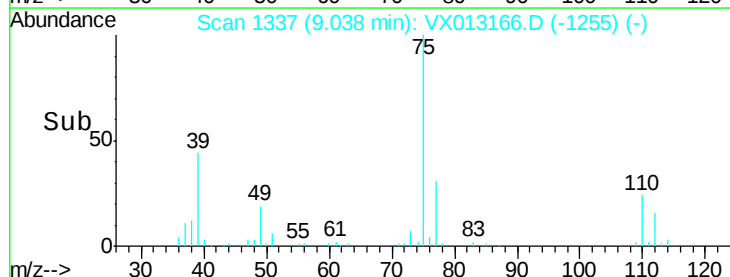
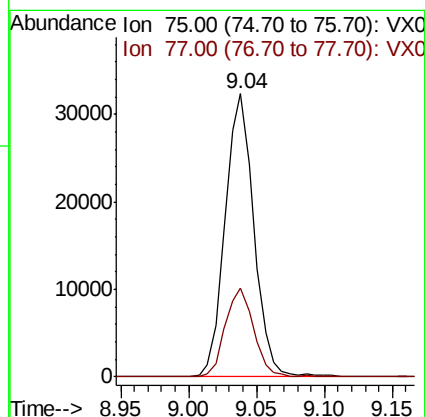
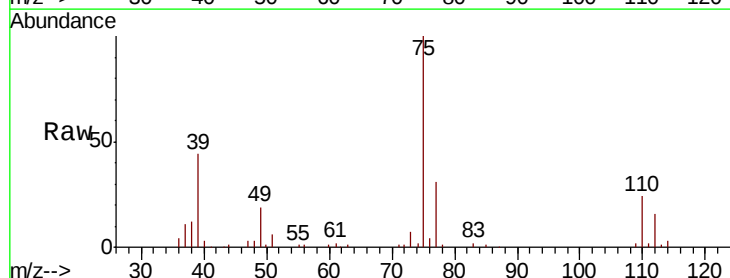
Acq: 21 Oct 2019 20:46

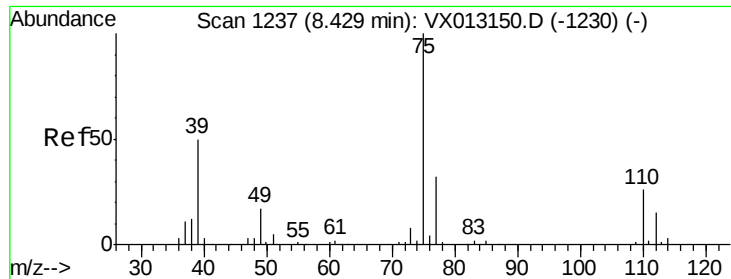
Tgt Ion: 75 Resp: 47530

Ion Ratio Lower Upper

75 100

77 31.5 25.6 38.4





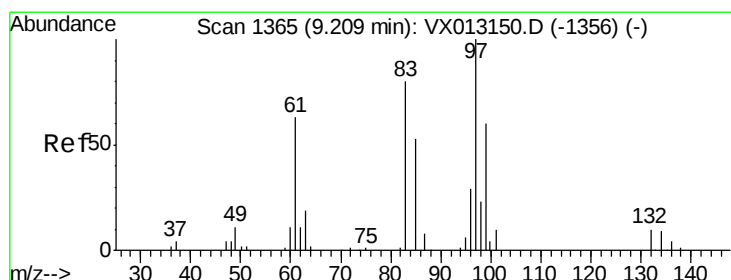
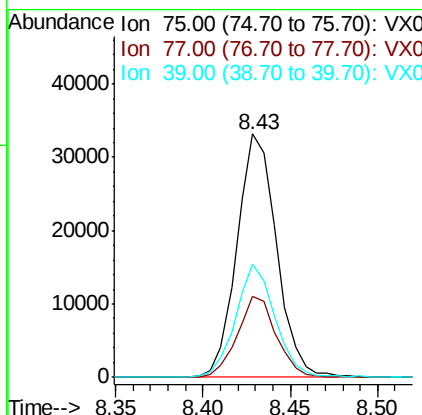
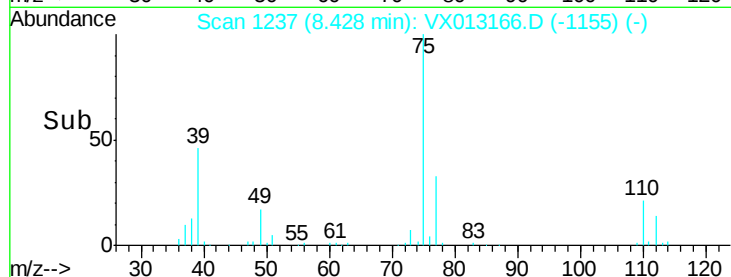
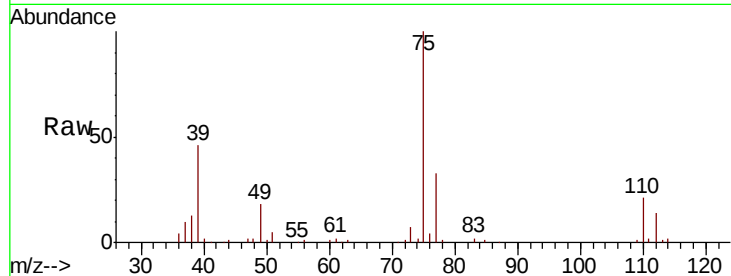
#49  
 cis-1,3-Dichloropropene  
 Concen: 17.842 ug/l  
 RT: 8.43 min Scan# 1237  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 33.4  | 25.8  | 38.8  |
| 39      | 46.4  | 39.7  | 59.5  |

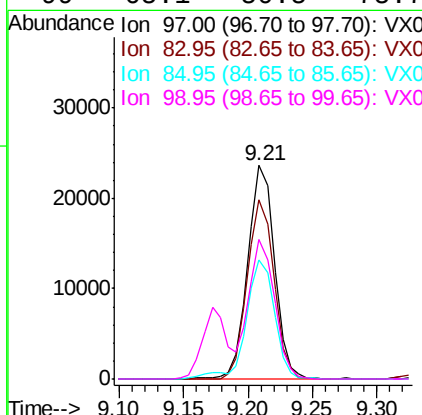
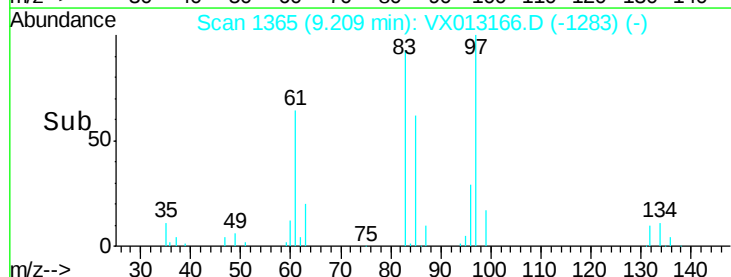
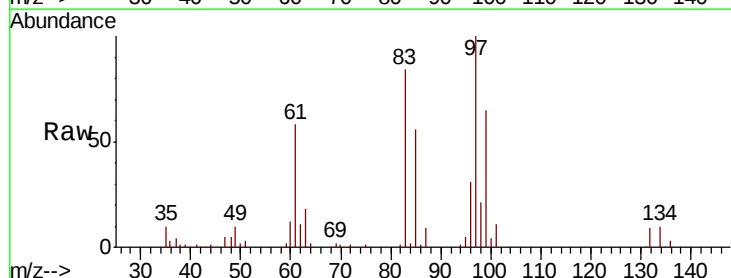
Manual Integrations  
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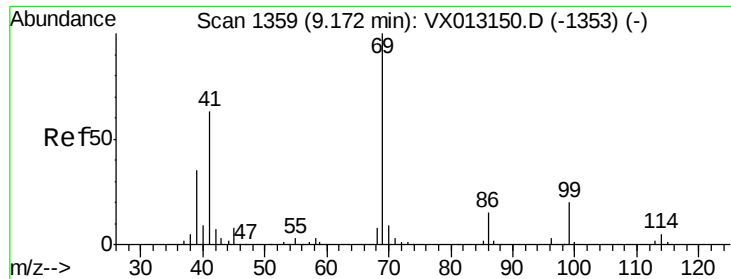
MMDadoda  
 10/22/2019 12:32:37 PM



#50  
 1,1,2-Trichloroethane  
 Concen: 18.874 ug/l  
 RT: 9.21 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 83.9  | 64.2  | 96.4  |
| 85      | 55.9  | 42.7  | 64.1  |
| 99      | 65.1  | 50.5  | 75.7  |





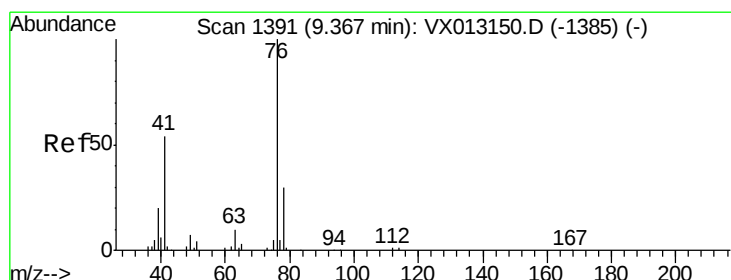
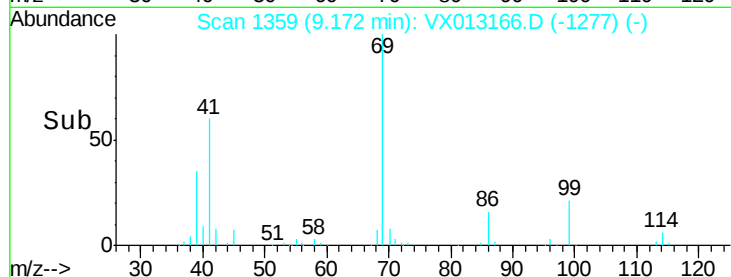
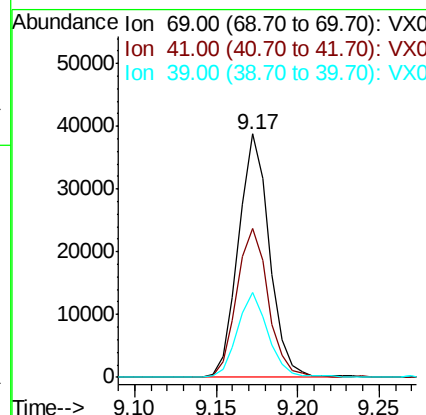
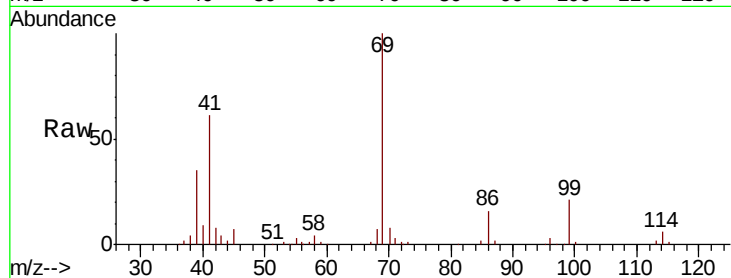
#51  
Ethyl methacrylate  
Concen: 18.299 ug/l  
RT: 9.17 min Scan# 1359  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 61.3  | 31.6  | 95.0  |
| 39      | 34.8  | 17.7  | 53.1  |

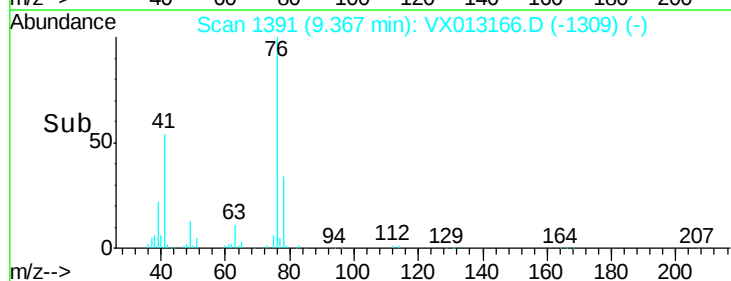
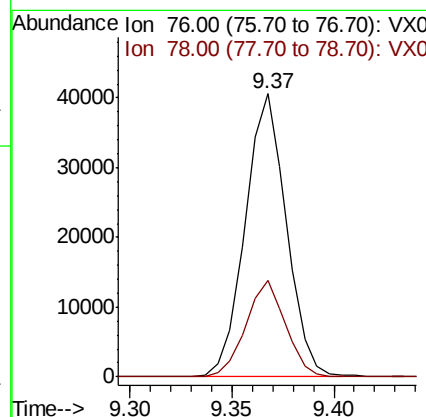
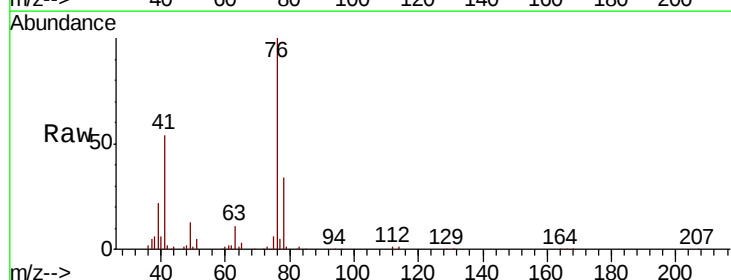
Manual Integrations  
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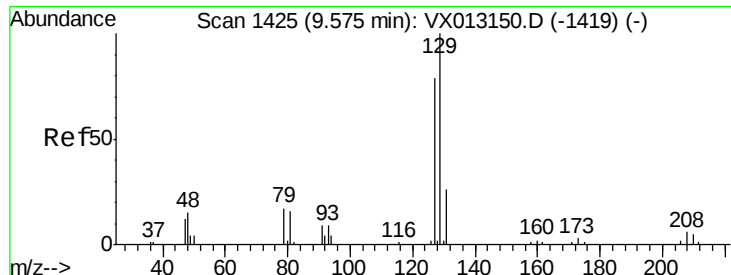
MMDadoda  
10/22/2019 12:32:37 PM



#52  
1,3-Dichloropropane  
Concen: 18.780 ug/l  
RT: 9.37 min Scan# 1391  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 33.0  | 0.0   | 64.6  |





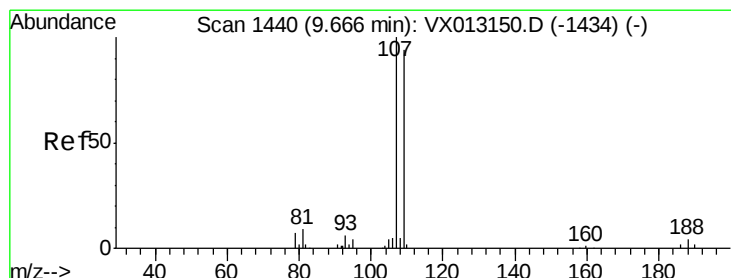
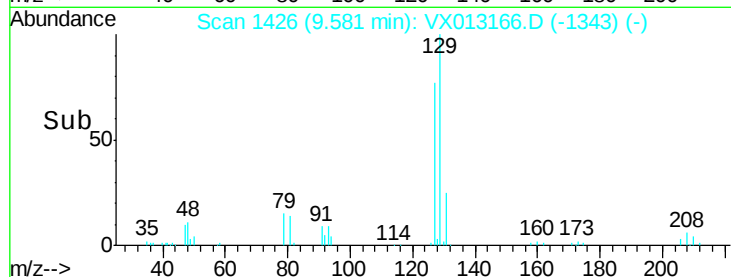
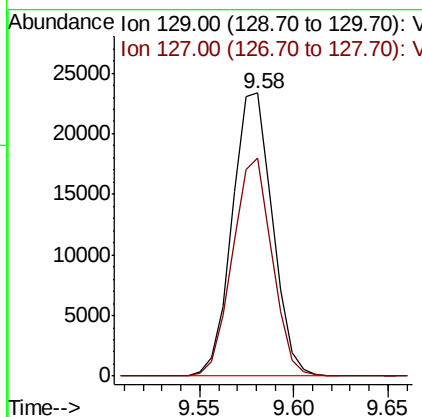
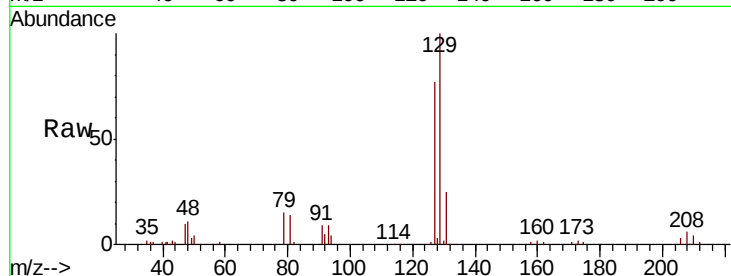
#53  
 Dibromochloromethane  
 Concen: 17.850 ug/l  
 RT: 9.58 min Scan# 1426  
 Delta R.T. 0.01 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

Tot Ion:129 Resp: 34597  
 Ion Ratio Lower Upper  
 129 100  
 127 75.7 39.4 118.2

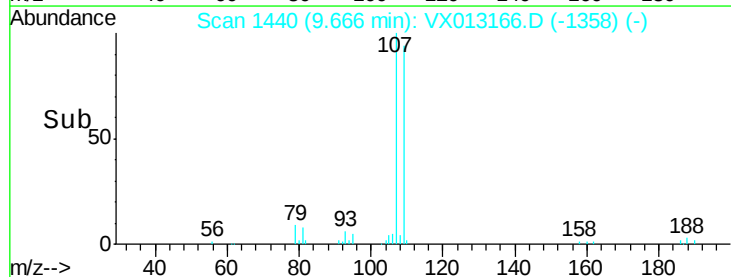
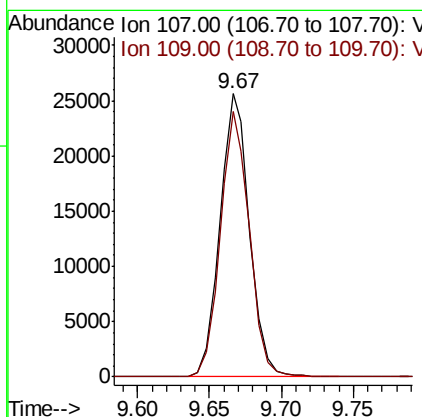
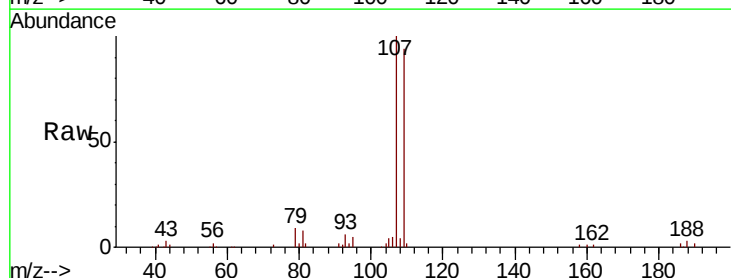
Manual Integrations  
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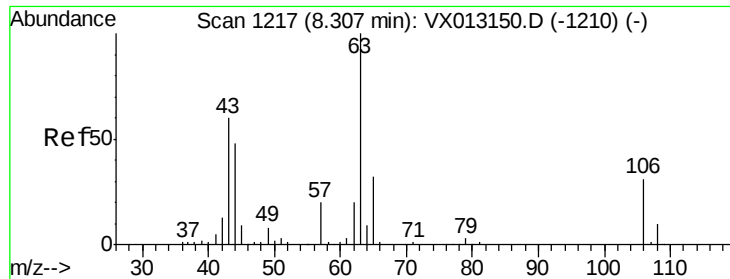
MMDadoda  
 10/22/2019 12:32:37 PM



#54  
 1,2-Dibromoethane  
 Concen: 19.107 ug/l  
 RT: 9.67 min Scan# 1440  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Tgt Ion:107 Resp: 36707  
 Ion Ratio Lower Upper  
 107 100  
 109 92.5 75.4 113.0





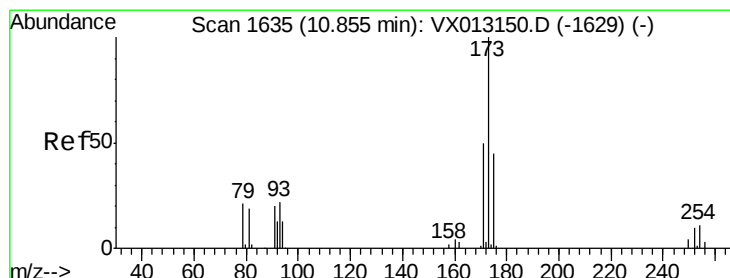
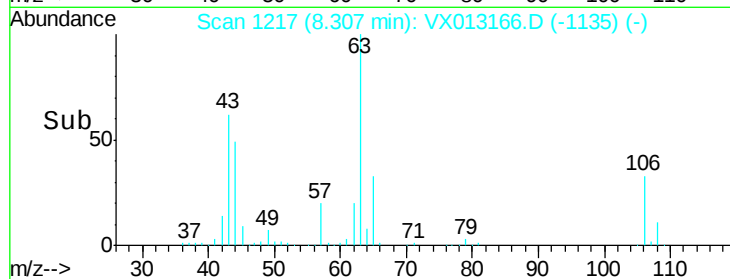
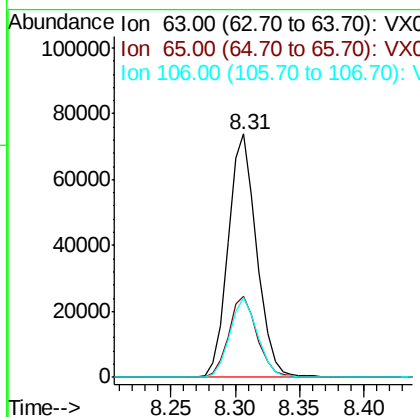
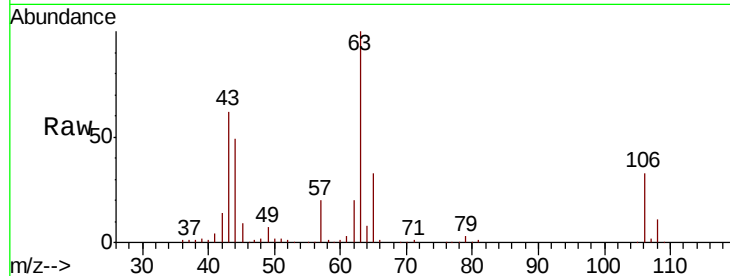
#55  
2-Chloroethyl vinyl ether  
Concen: 99.792 ug/l  
RT: 8.31 min Scan# 1217  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 33.0  | 25.5  | 38.3  |
| 106     | 31.8  | 24.8  | 37.2  |

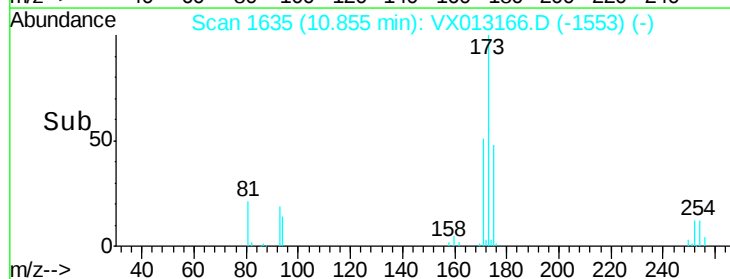
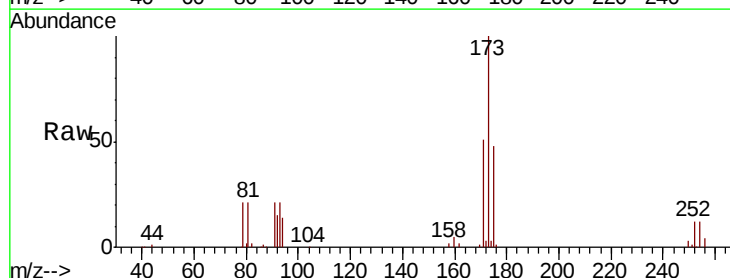
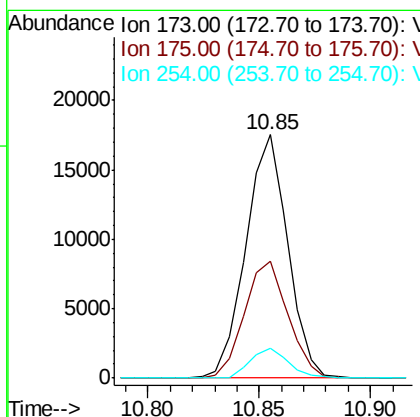
Manual Integrations  
APPROVED

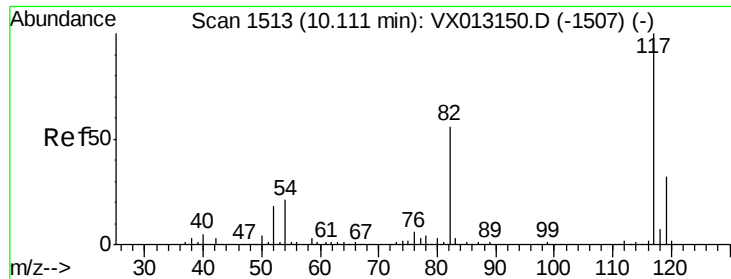
MMDadoda  
10/22/2019 12:32:37 PM



#56  
Bromoform  
Concen: 16.745 ug/l  
RT: 10.85 min Scan# 1635  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.9  | 39.0  | 58.4  |
| 254     | 11.1  | 8.1   | 12.1  |





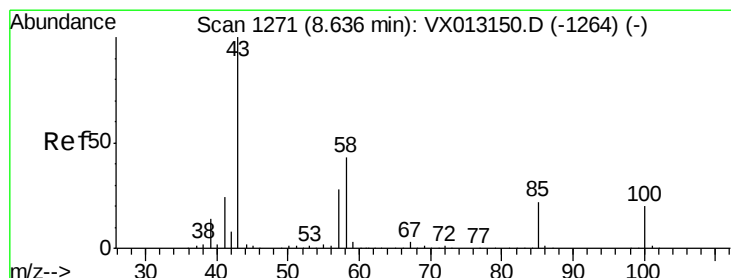
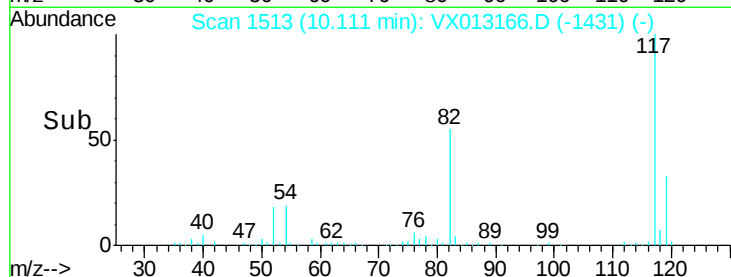
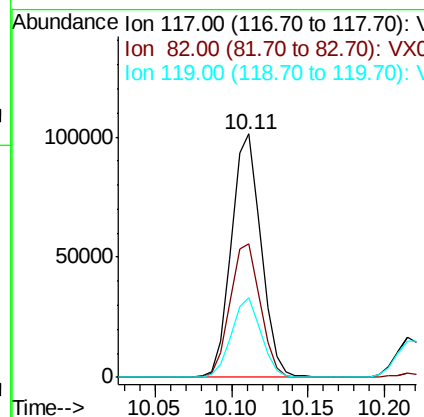
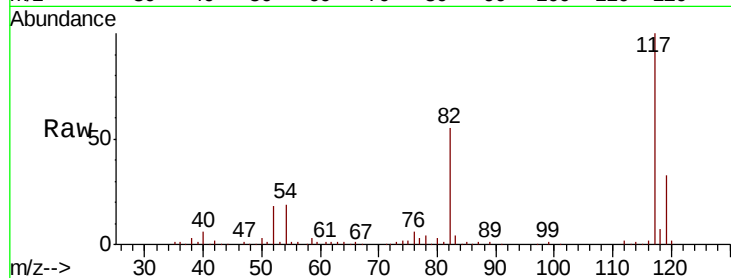
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.1  | 46.0  | 69.0  |
| 119     | 32.5  | 25.4  | 38.0  |

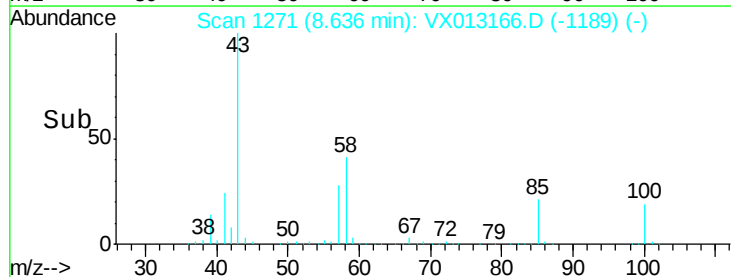
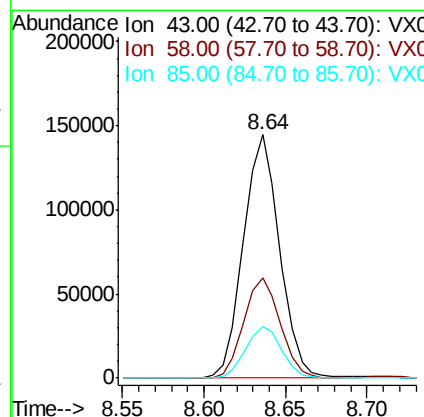
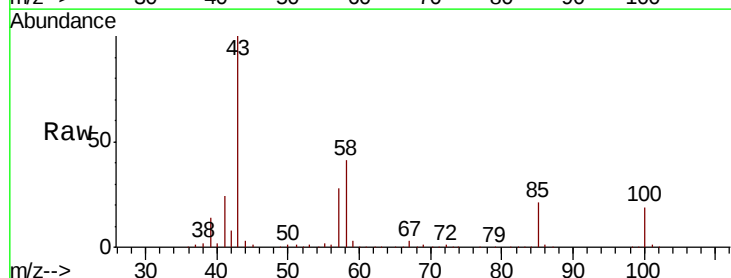
Manual Integrations  
APPROVED

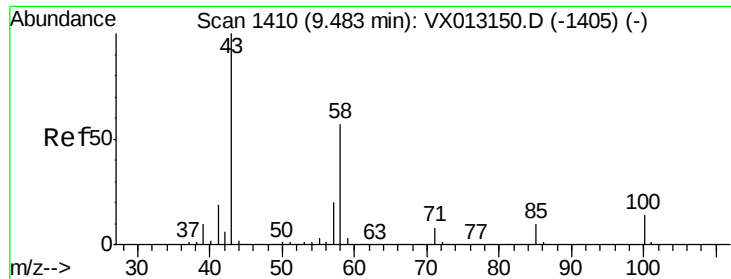
MMDadoda  
10/22/2019 12:32:37 PM



#58  
4-Methyl-2-Pentanone  
Concen: 97.448 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.7  | 33.8  | 50.8  |
| 85      | 21.3  | 16.8  | 25.2  |





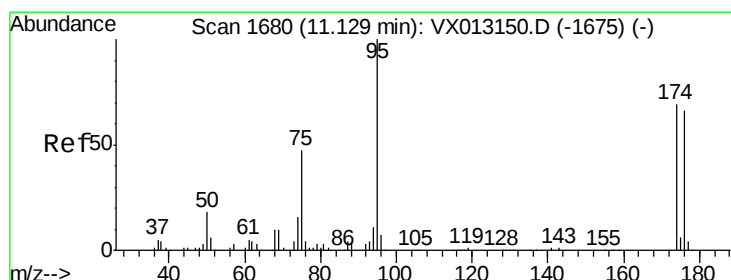
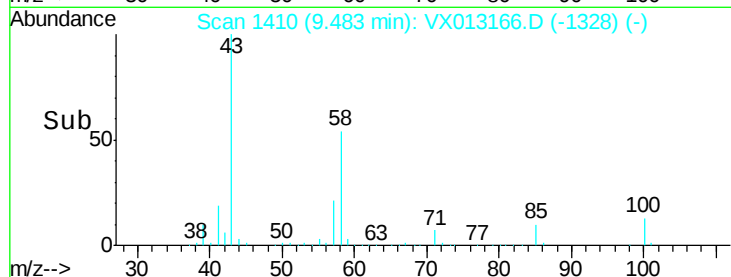
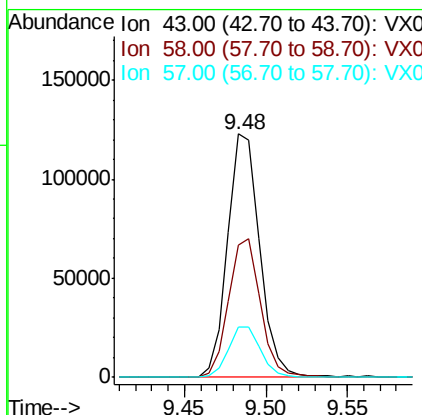
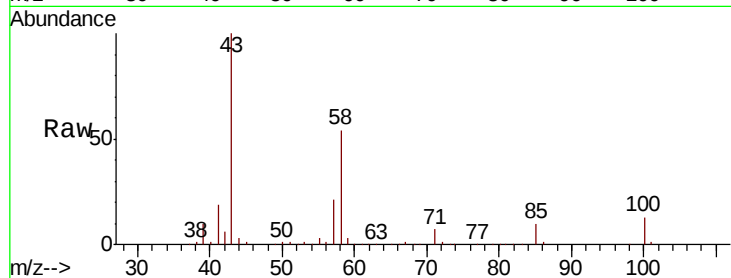
#59  
2-Hexanone  
Concen: 93.462 ug/l  
RT: 9.48 min Scan# 1410  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 56.8  | 46.6  | 69.8  |
| 57      | 21.0  | 16.9  | 25.3  |

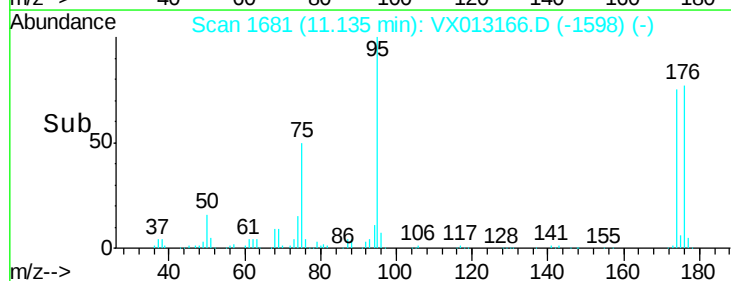
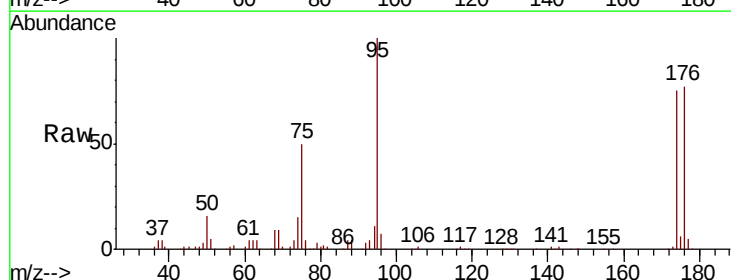
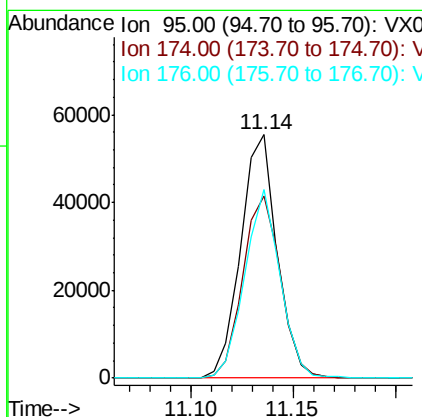
Manual Integrations  
APPROVED

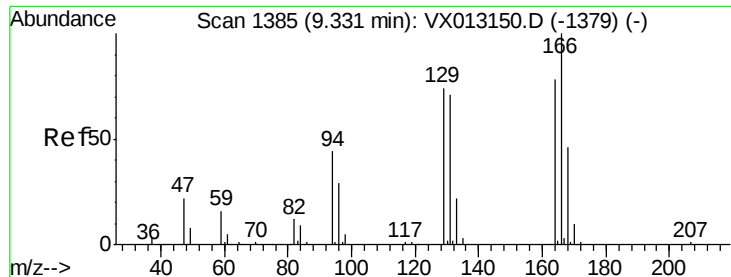
MMDadoda  
10/22/2019 12:32:37 PM



#60  
4-Bromofluorobenzene  
Concen: 29.005 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 77.6  | 60.0  | 90.0  |
| 176     | 75.5  | 58.5  | 87.7  |





#61

Tetrachloroethene

Concen: 20.204 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 36473

Ion Ratio Lower Upper

164 100

166 128.2 102.6 153.8

129 93.9 75.7 113.5

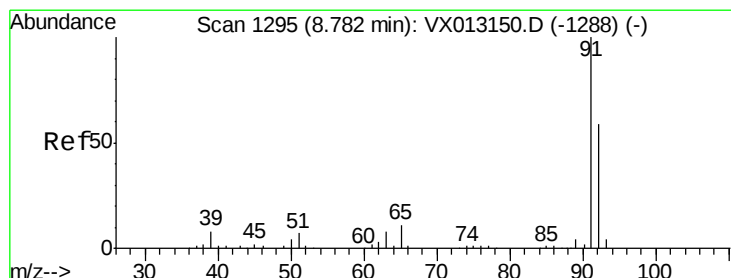
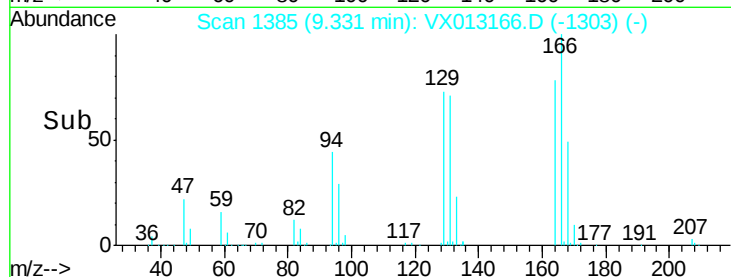
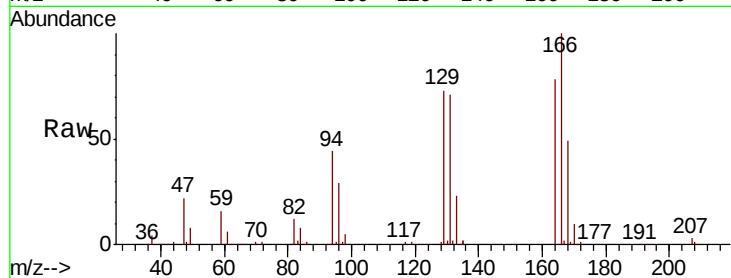
131 90.7 72.4 108.6

Manual Integrations

APPROVED

MMDadoda

10/22/2019 12:32:37 PM



#62

Toluene

Concen: 19.321 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013166.D

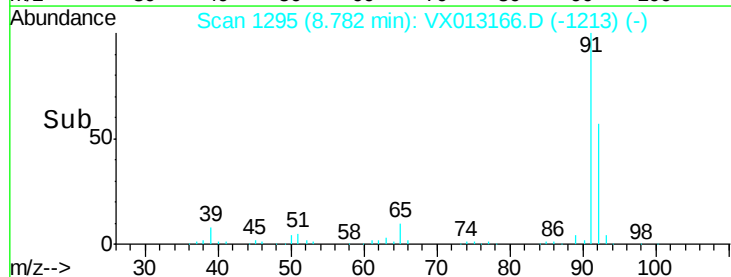
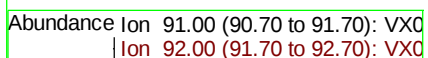
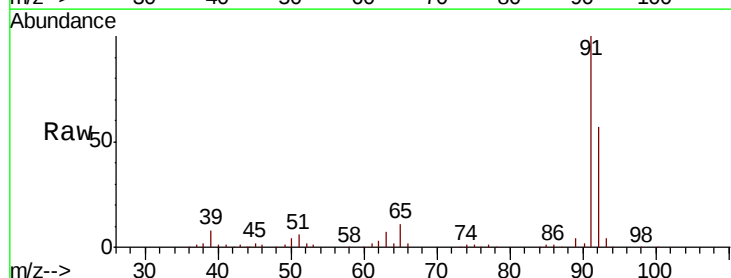
Acq: 21 Oct 2019 20:46

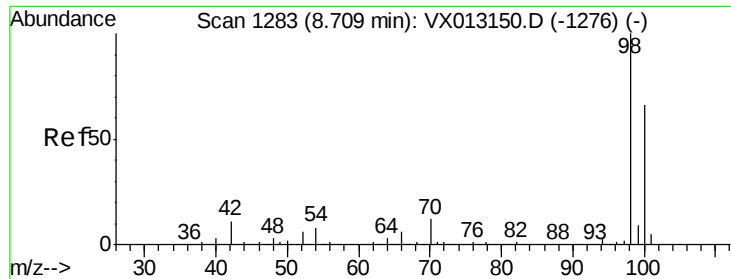
Tgt Ion: 91 Resp: 142027

Ion Ratio Lower Upper

91 100

92 60.2 47.7 71.5





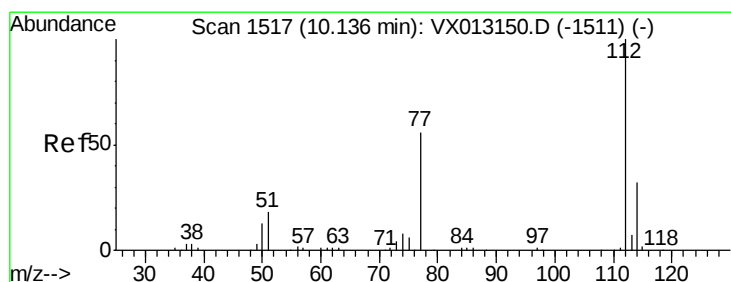
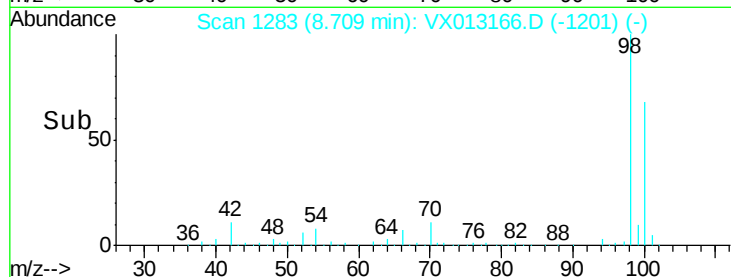
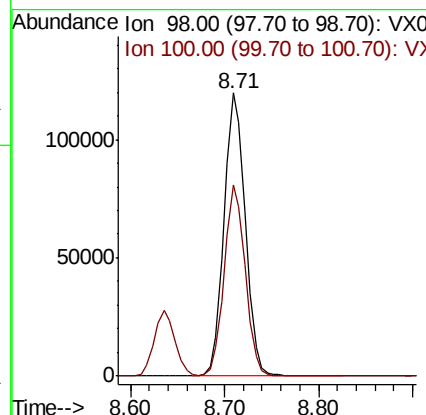
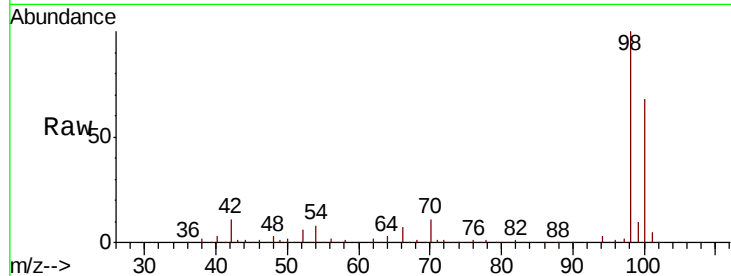
#63  
Toluene-d8  
Concen: 30.984 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

Tot Ion: 98 Resp: 187656  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.1 79.7

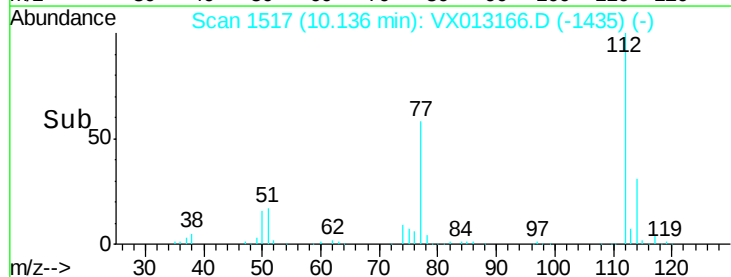
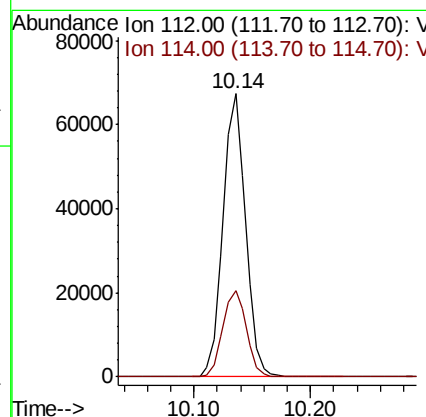
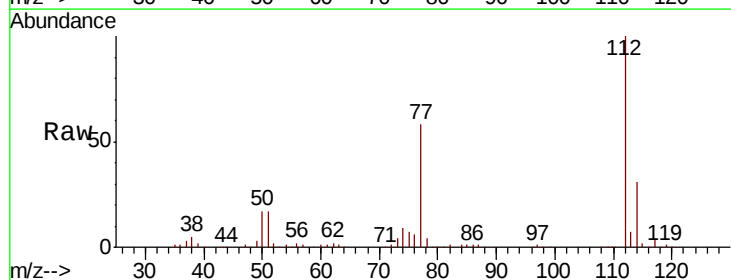
Manual Integrations  
APPROVED

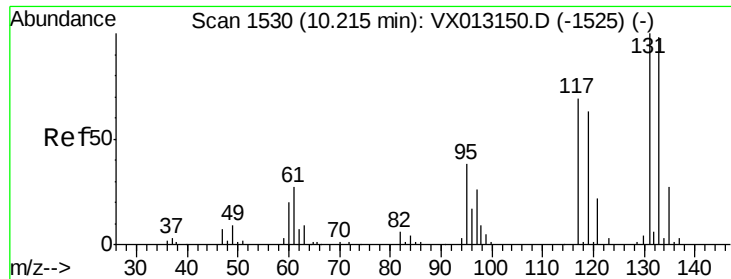
MMDadoda  
10/22/2019 12:32:37 PM



#64  
Chlorobenzene  
Concen: 19.076 ug/l  
RT: 10.14 min Scan# 1517  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Tgt Ion: 112 Resp: 89911  
Ion Ratio Lower Upper  
112 100  
114 30.7 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 18.940 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:131 Resp: 33441

Ion Ratio Lower Upper

131 100

133 95.6 0.0 191.0

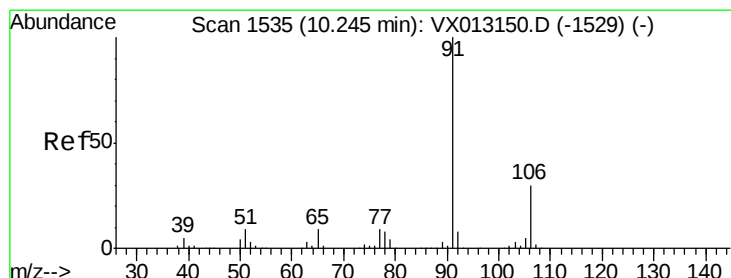
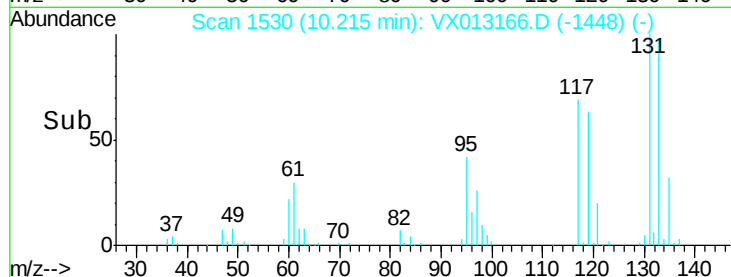
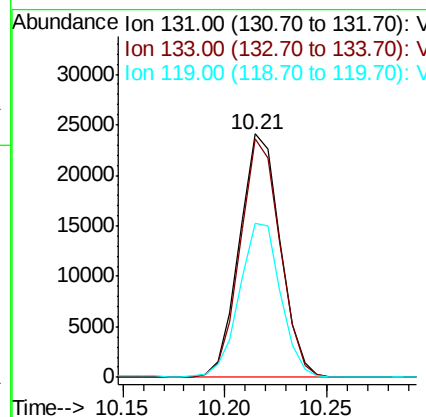
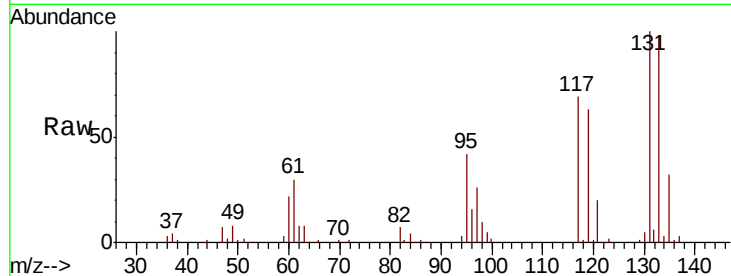
119 63.7 0.0 125.6

Manual Integrations

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#66

Ethyl Benzene

Concen: 19.009 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX013166.D

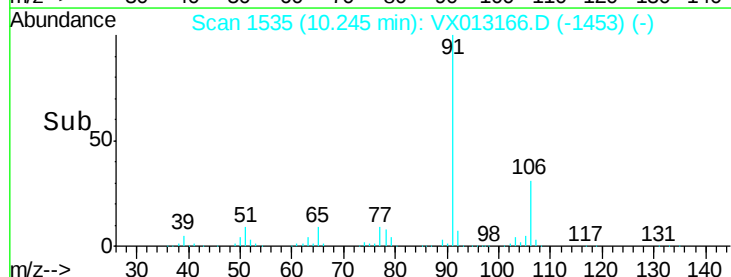
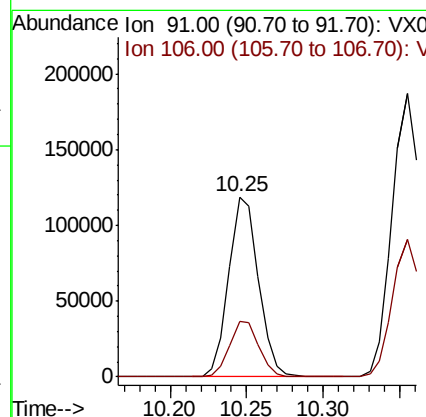
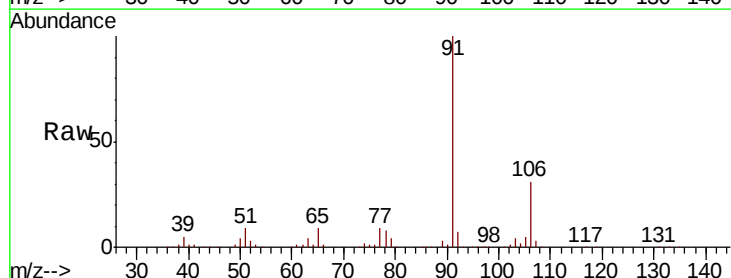
Acq: 21 Oct 2019 20:46

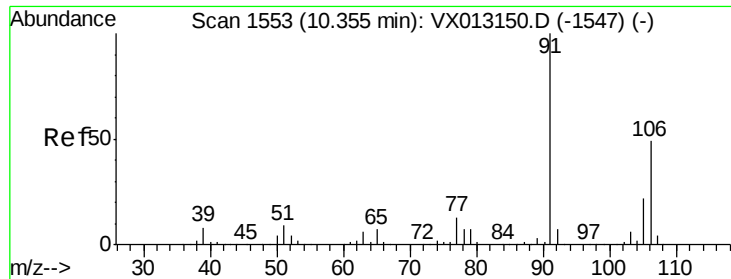
Tgt Ion: 91 Resp: 160826

Ion Ratio Lower Upper

91 100

106 30.7 23.8 35.6





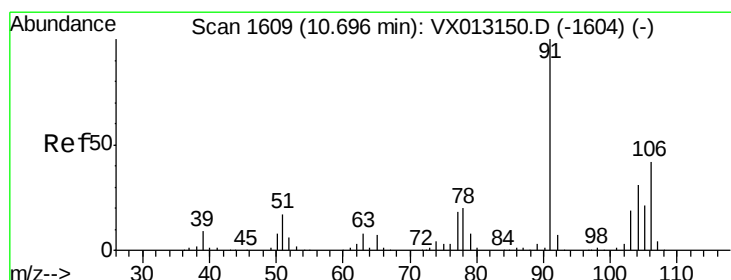
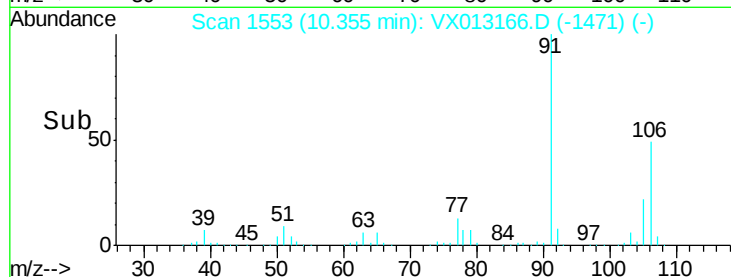
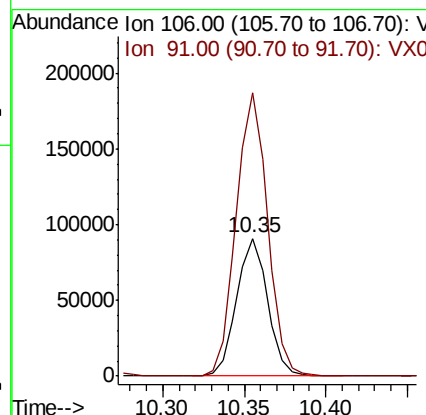
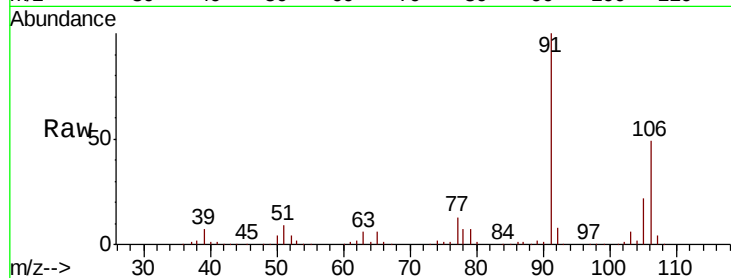
#67  
m/p-Xylenes  
Concen: 37.513 ug/l  
RT: 10.35 min Scan# 1553  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

Tot Ion:106 Resp: 120624  
Ion Ratio Lower Upper  
106 100  
91 208.0 163.7 245.5

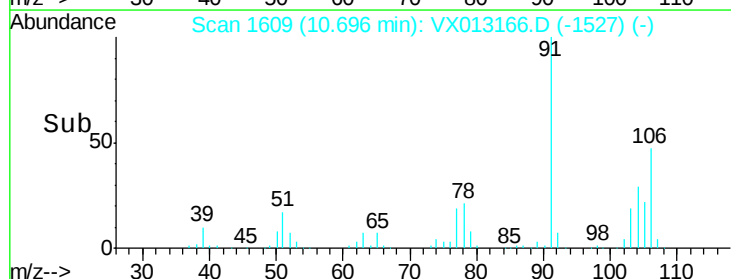
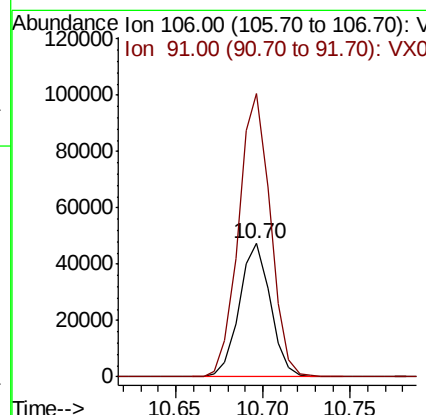
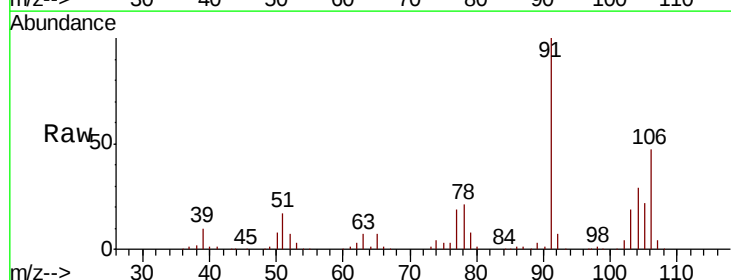
Manual Integrations  
APPROVED

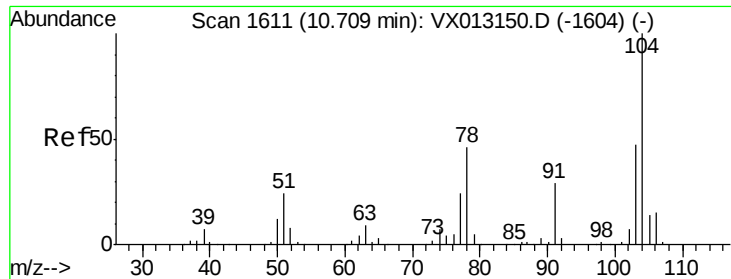
MMDadoda  
10/22/2019 12:32:37 PM



#68  
o-Xylene  
Concen: 19.109 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Tgt Ion:106 Resp: 58656  
Ion Ratio Lower Upper  
106 100  
91 216.0 113.6 340.8





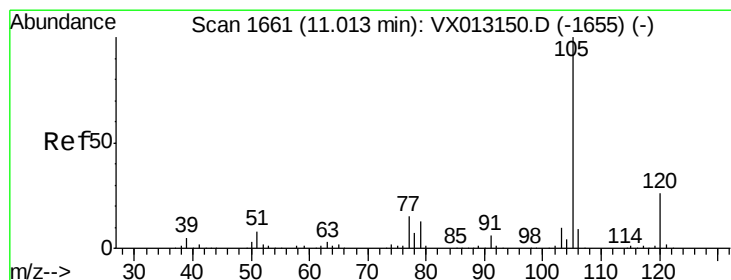
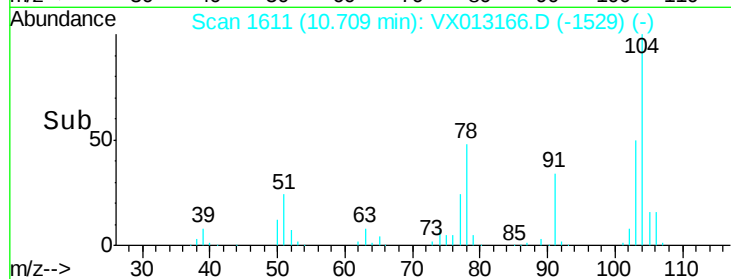
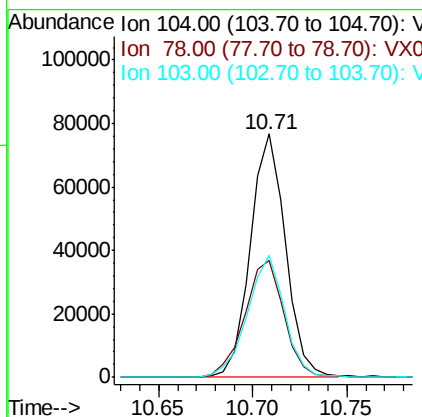
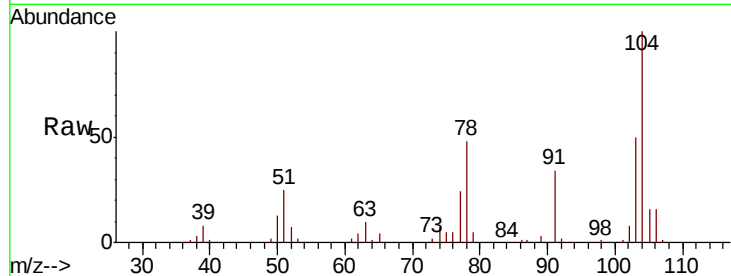
#69  
Stvrene  
Concen: 18.756 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 53.5  | 42.3  | 63.5  |
| 103     | 53.4  | 42.2  | 63.2  |

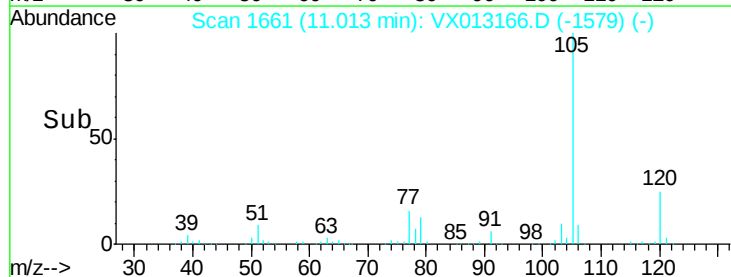
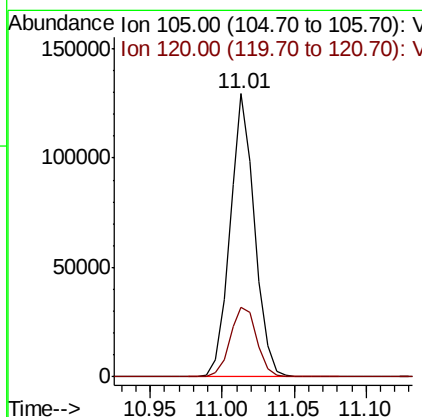
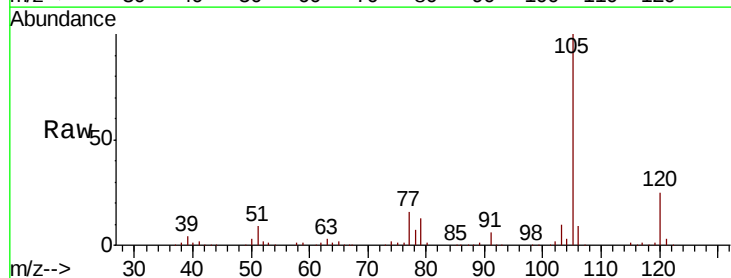
Manual Integrations  
APPROVED

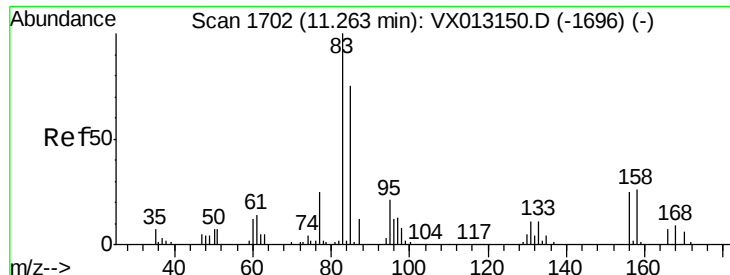
MMDadoda  
10/22/2019 12:32:37 PM



#70  
Isopropylbenzene  
Concen: 18.313 ug/l  
RT: 11.01 min Scan# 1661  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.6  | 18.1  | 33.7  |





#71

1,1,2,2-Tetrachloroethane

Concen: 18.923 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 83 Resp: 48841

Ion Ratio Lower Upper

83 100

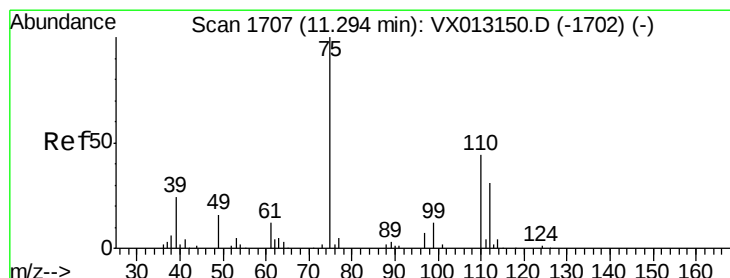
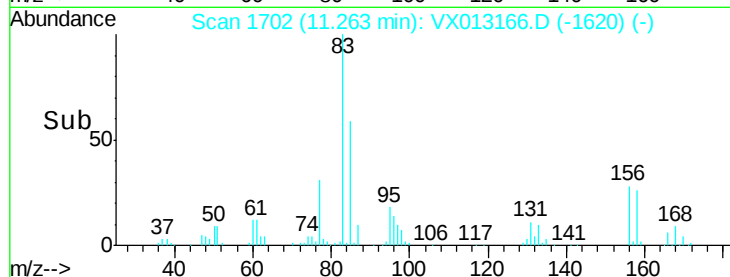
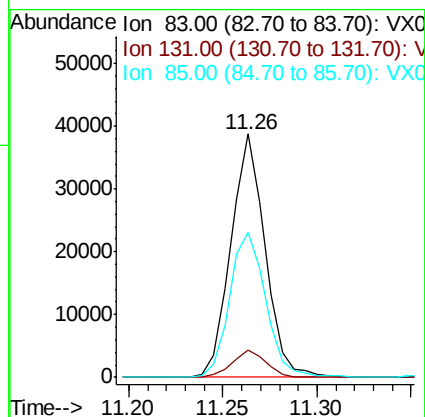
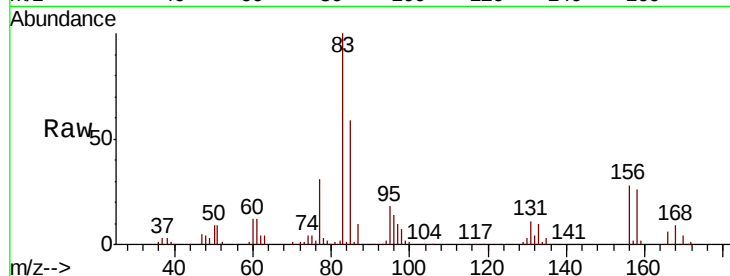
131 11.1 5.5 16.4

85 62.4 32.9 98.6

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#72

1,2,3-Trichloropropane

Concen: 18.545 ug/l m

RT: 11.29 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX013166.D

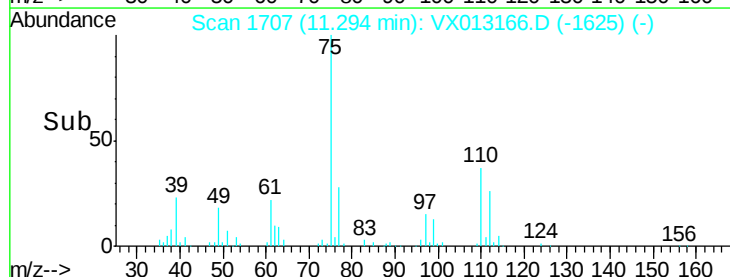
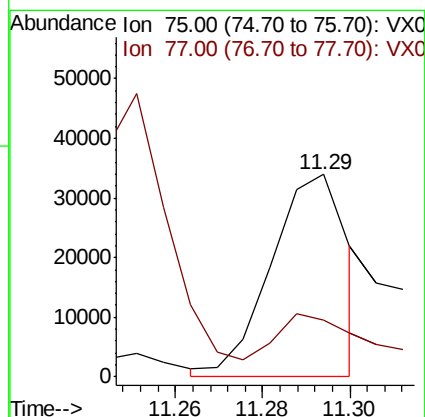
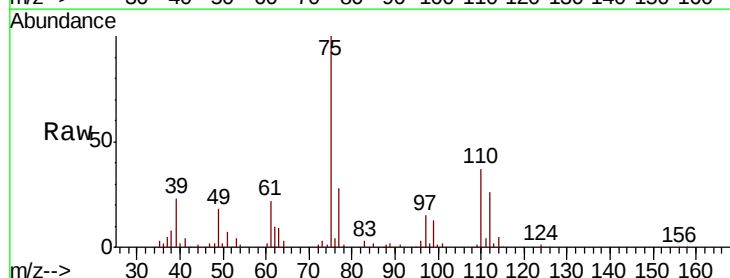
Acq: 21 Oct 2019 20:46

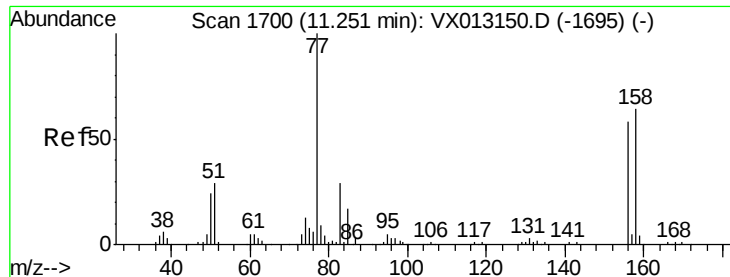
Tgt Ion: 75 Resp: 41574

Ion Ratio Lower Upper

75 100

77 41.5 0.0 74.0





#73

Bromobenzene

Concen: 18.544 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion:156 Resp: 37484

Ion Ratio Lower Upper

156 100

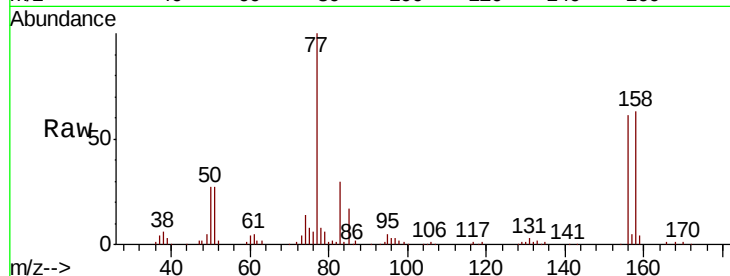
77 157.4 0.0 328.0

158 97.1 0.0 196.2

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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V

60000

50000

40000

30000

20000

10000

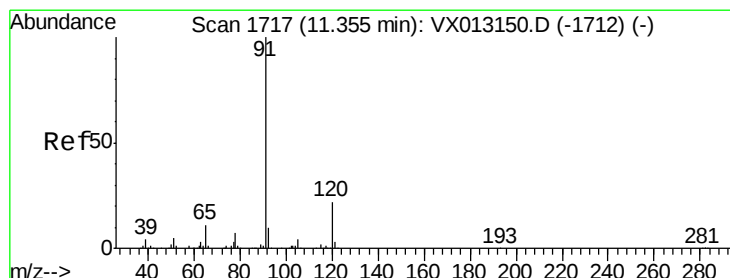
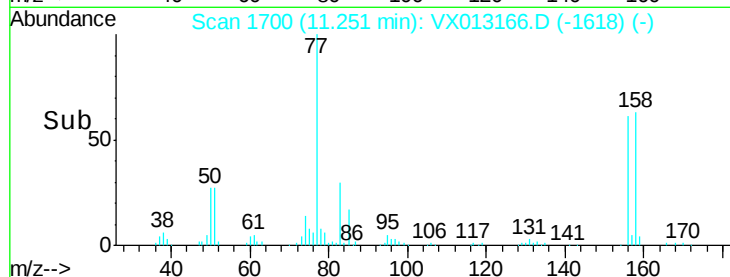
0

11.20

11.25

11.30

Time-->



#74

n-propylbenzene

Concen: 18.325 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013166.D

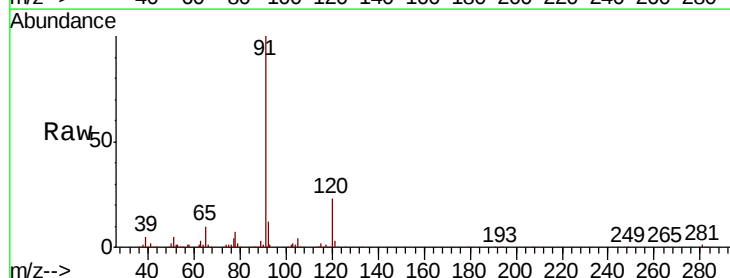
Acq: 21 Oct 2019 20:46

Tgt Ion: 91 Resp: 169414

Ion Ratio Lower Upper

91 100

120 22.5 0.0 45.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

150000

100000

50000

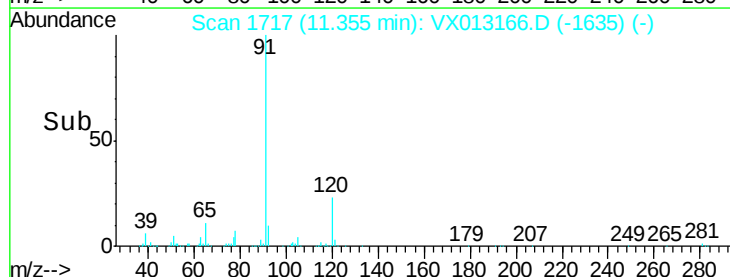
0

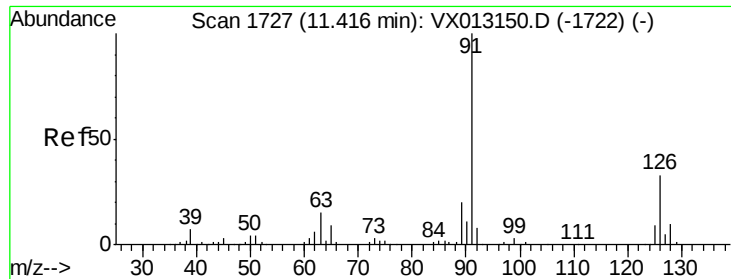
11.30

11.35

11.40

Time-->





#75

2-Chlorotoluene

Concen: 18.413 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 106516

Ion Ratio Lower Upper

91 100

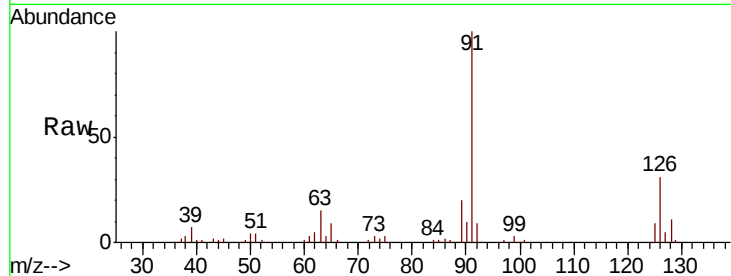
126 32.3 0.0 63.8

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Abundance Ion 91.00 (90.70 to 91.70): VX013150.D (-1722) (-)

Ion 126.00 (125.70 to 126.70): VX013150.D (-1722) (-)

150000

100000

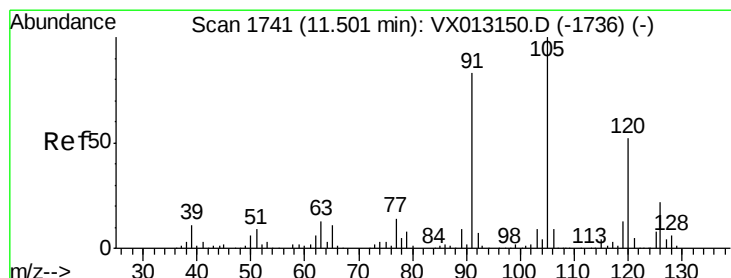
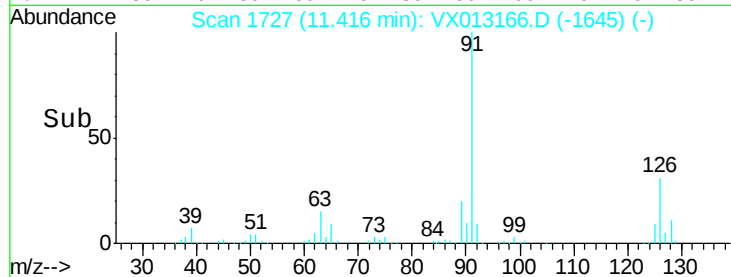
50000

0

11.42

11.45

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 18.794 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013166.D

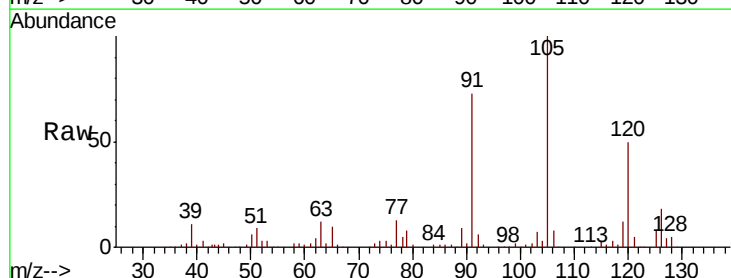
Acq: 21 Oct 2019 20:46

Tgt Ion: 105 Resp: 132883

Ion Ratio Lower Upper

105 100

120 50.6 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): VX013150.D (-1736) (-)

Ion 120.00 (119.70 to 120.70): VX013150.D (-1736) (-)

120000

100000

80000

60000

40000

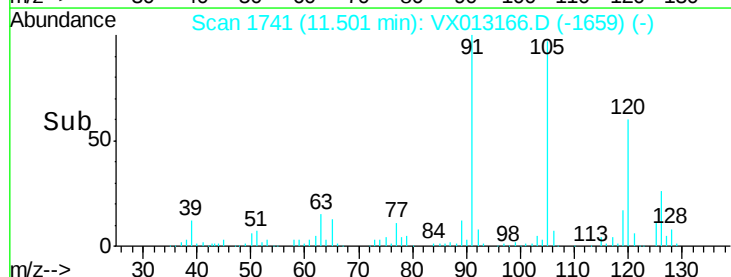
20000

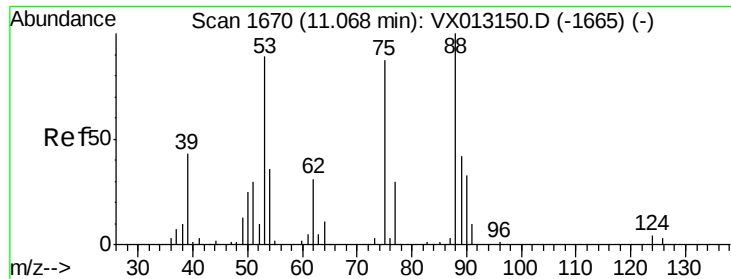
0

11.50

11.55

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 16.331 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020EC

Tot Ion: 75 Resp: 14214

Ion Ratio Lower Upper

75 100

53 99.8 51.1 153.4

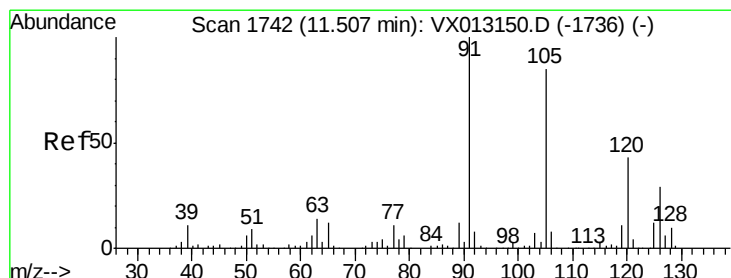
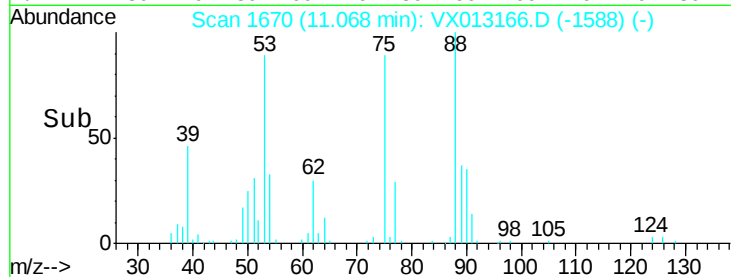
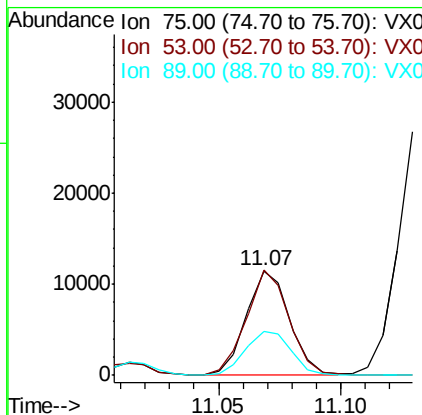
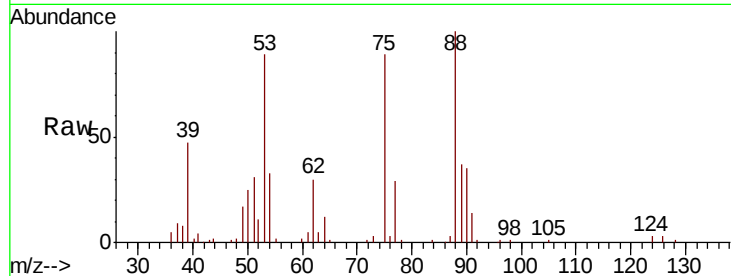
89 41.6 24.1 72.4

Manual Integrations

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#78

4-Chlorotoluene

Concen: 19.056 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX013166.D

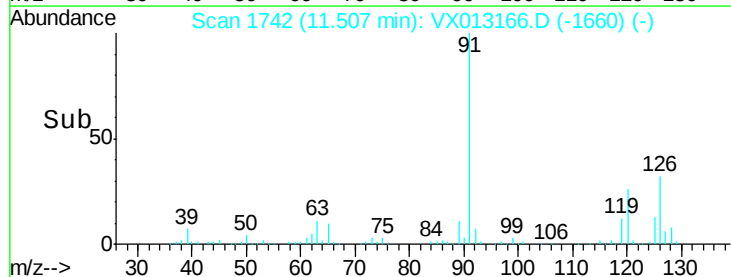
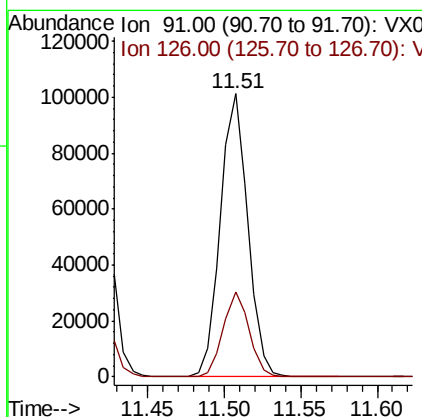
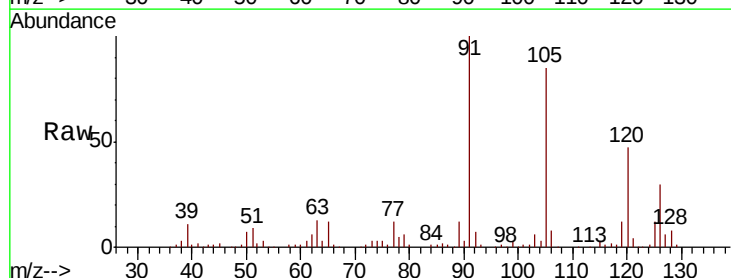
Acq: 21 Oct 2019 20:46

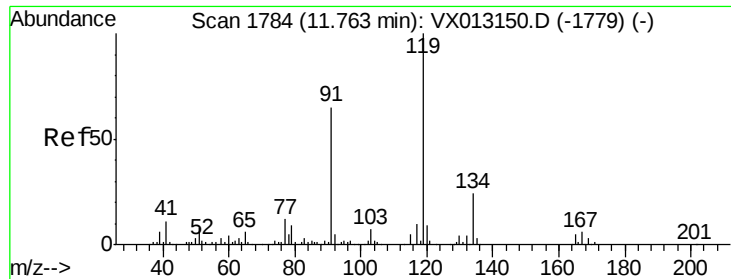
Tgt Ion: 91 Resp: 125961

Ion Ratio Lower Upper

91 100

126 28.5 0.0 58.4





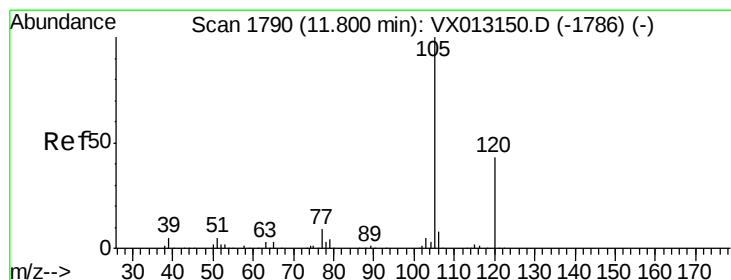
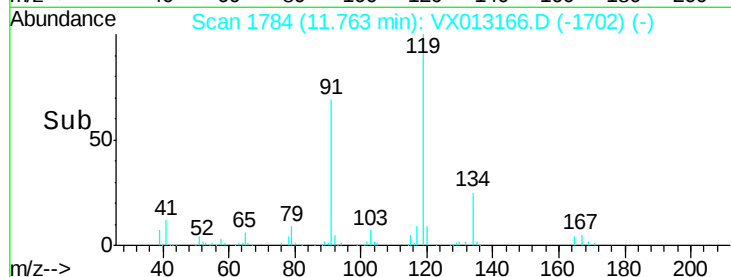
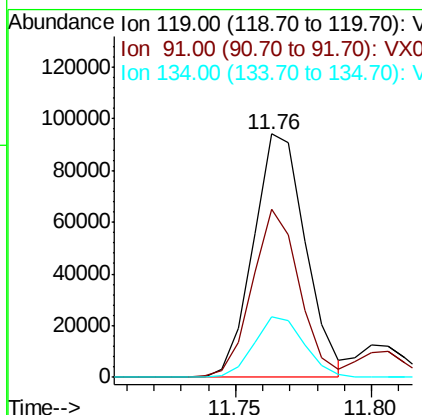
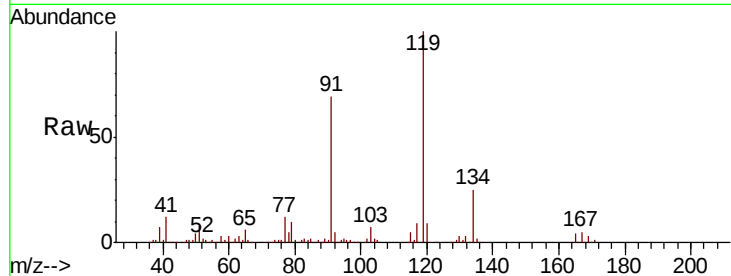
#79  
tert-butylbenzene  
Concen: 18.416 ug/l  
RT: 11.76 min Scan# 1784  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 125380 |       |       |
| 91      | 62.6  | 0.0    | 128.4 |       |
| 134     | 23.9  | 0.0    | 49.0  |       |

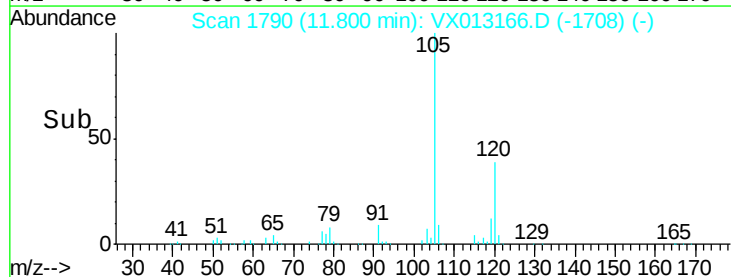
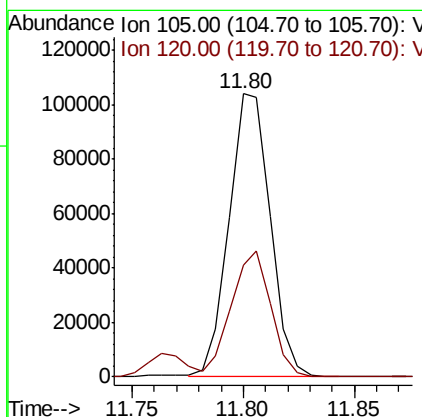
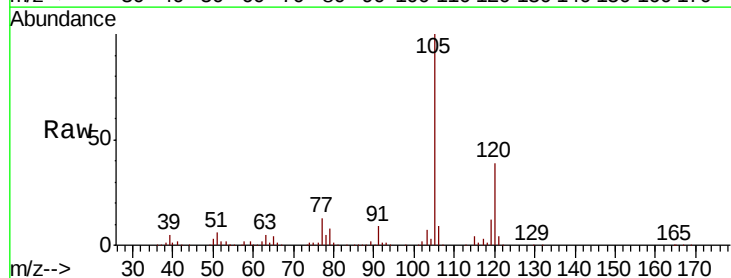
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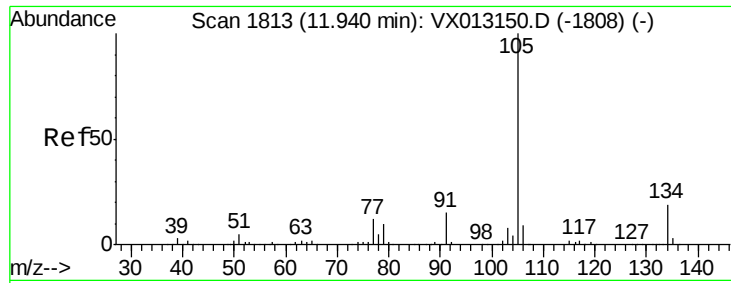
MMDadoda  
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#80  
1,2,4-Trimethylbenzene  
Concen: 19.039 ug/l  
RT: 11.80 min Scan# 1790  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 134482 |       |       |
| 120     | 42.5  | 0.0    | 87.4  |       |





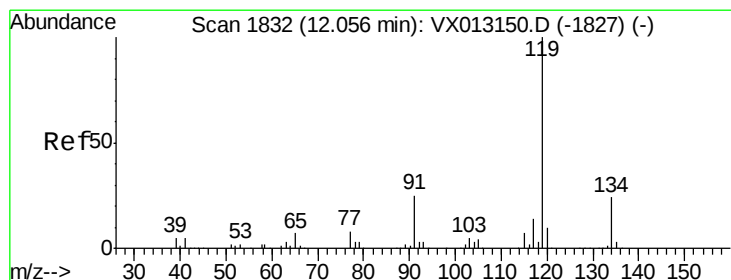
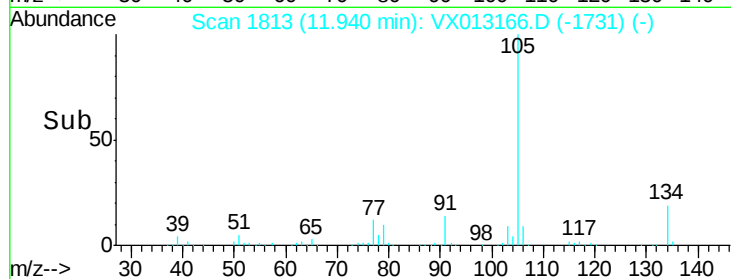
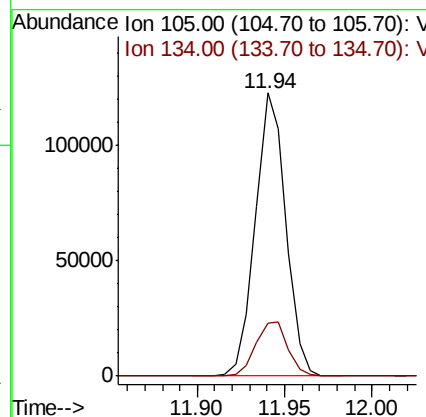
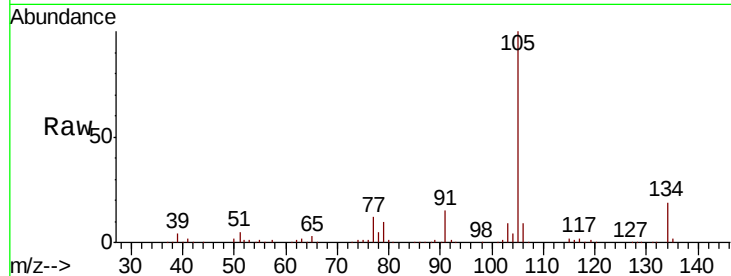
#81  
 sec-Butylbenzene  
 Concen: 18.362 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.1  | 0.0   | 39.2  |

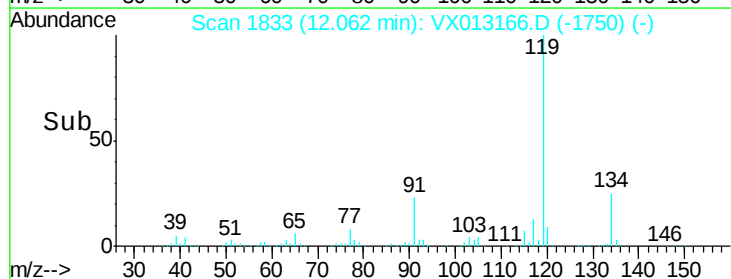
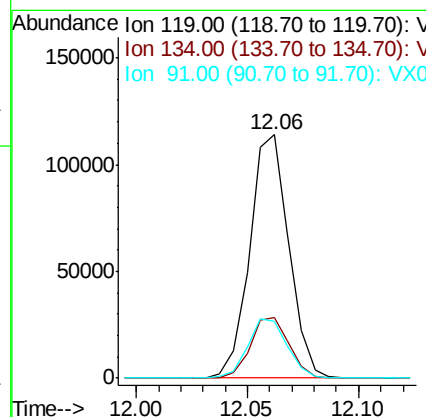
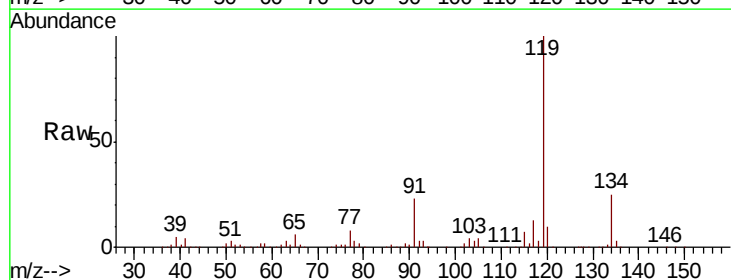
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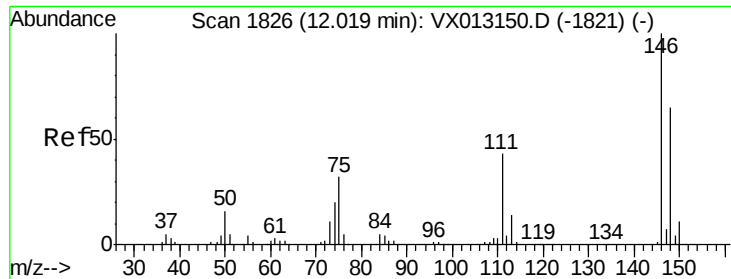
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#82  
 p-Isopropyltoluene  
 Concen: 18.805 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. 0.01 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.8  | 0.0   | 51.6  |
| 91      | 24.8  | 0.0   | 50.0  |





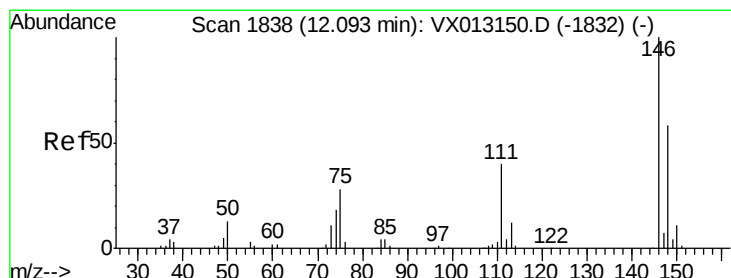
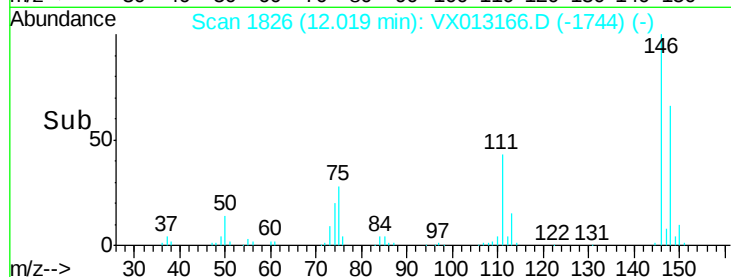
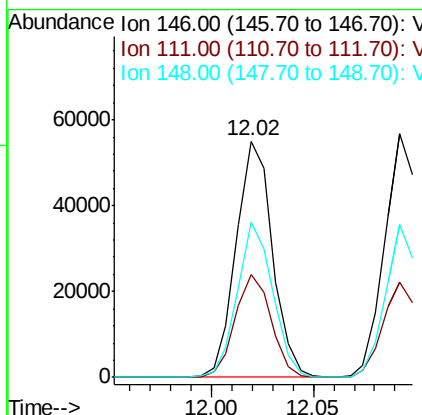
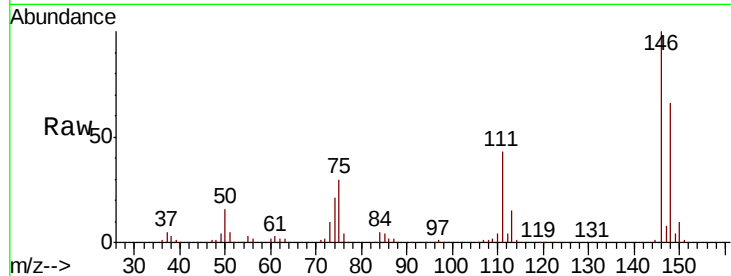
#83  
 1,3-Dichlorobenzene  
 Concen: 18.450 ug/l  
 RT: 12.02 min Scan# 1826  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.1  | 21.8  | 65.4  |
| 148     | 64.1  | 31.2  | 93.6  |

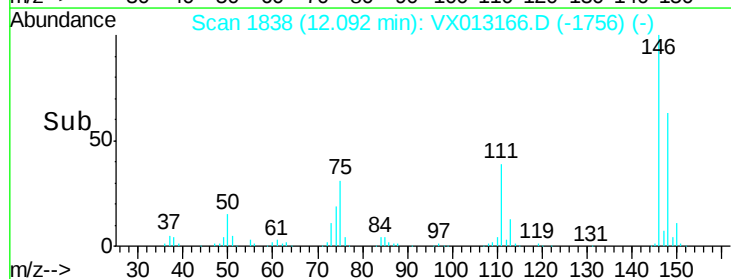
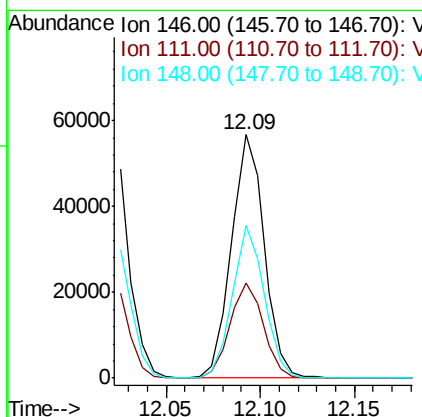
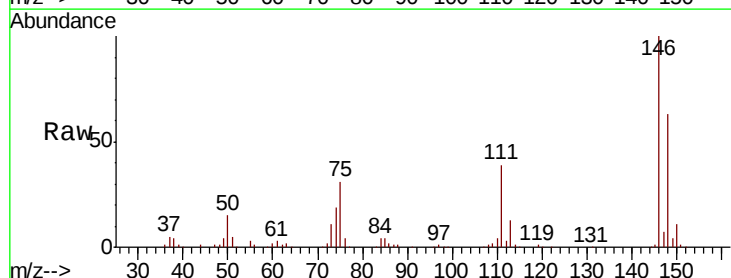
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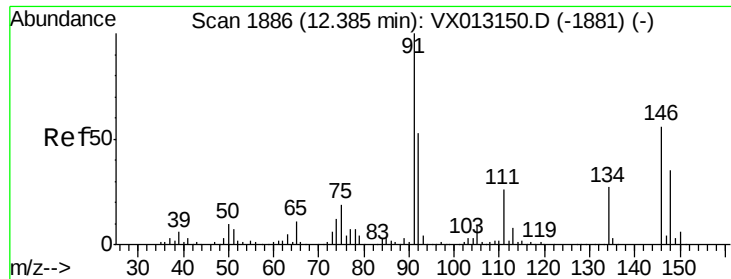
MMDadoda  
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#84  
 1,4-Dichlorobenzene  
 Concen: 18.693 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. -0.00 min  
 Lab File: VX013166.D  
 Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 20.3  | 60.9  |
| 148     | 61.3  | 31.4  | 94.2  |





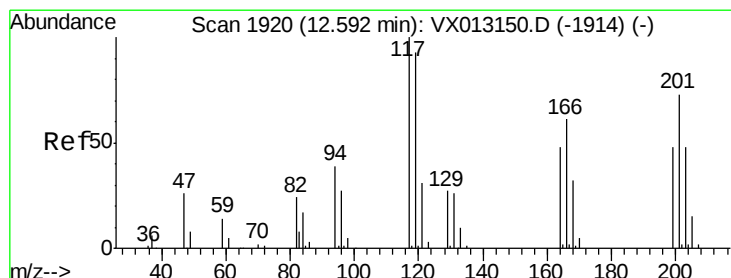
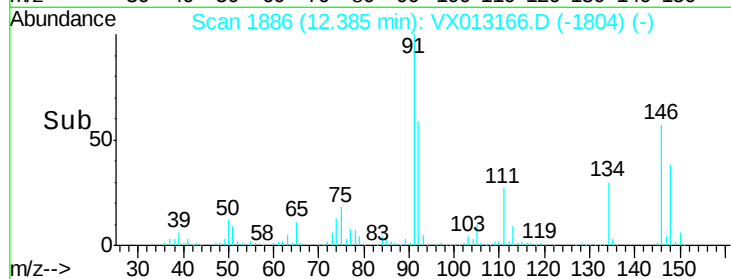
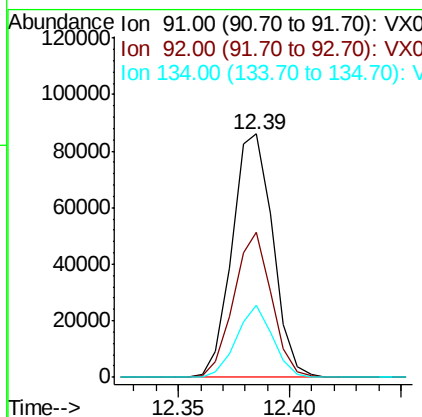
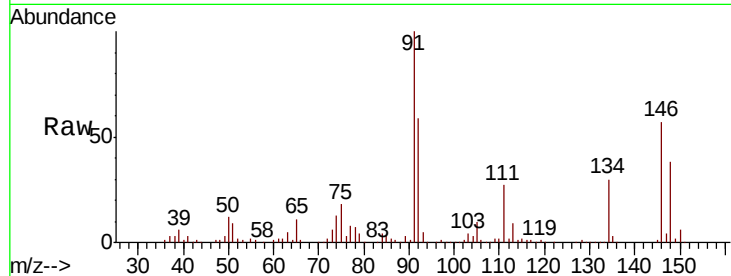
#85  
n-Butylbenzene  
Concen: 17.387 ug/l  
RT: 12.39 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 91      | 100  |       | 109523 |       |       |
| 92      | 55.2 | 0.0   | 106.8  |       |       |
| 134     | 26.5 | 0.0   | 52.4   |       |       |

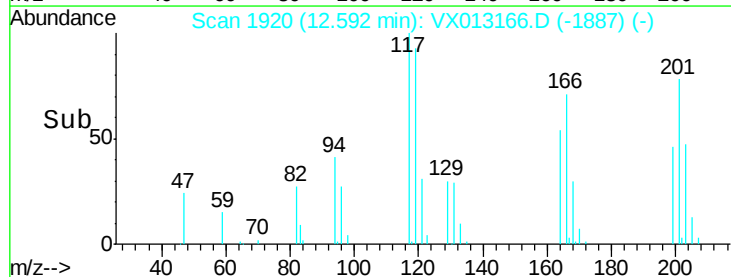
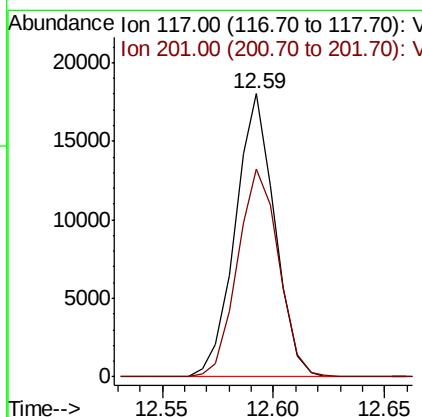
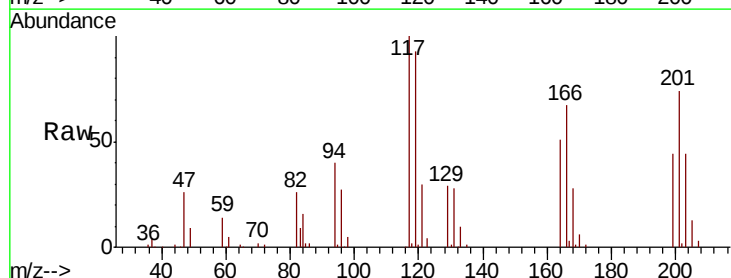
Manual Integrations  
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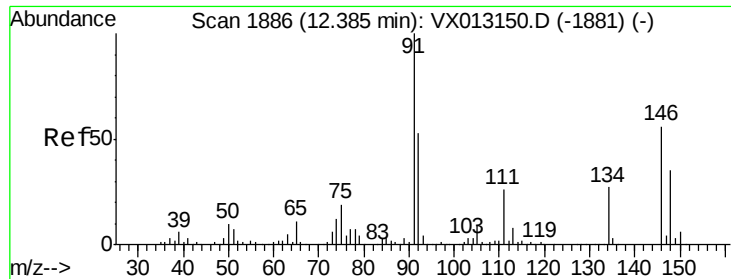
MMDadoda  
10/22/2019 12:32:37 PM



#86  
Hexachloroethane  
Concen: 17.160 ug/l  
RT: 12.59 min Scan# 1920  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 117     | 100  |       | 22211 |       |       |
| 201     | 76.9 | 35.9  | 107.5 |       |       |





#87

1,2-Dichlorobenzene

Concen: 18.642 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

Instrument :

MSVOA\_X

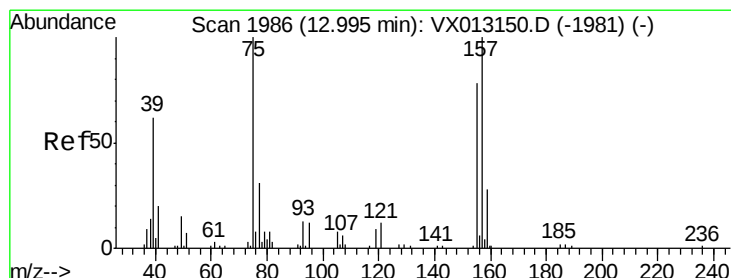
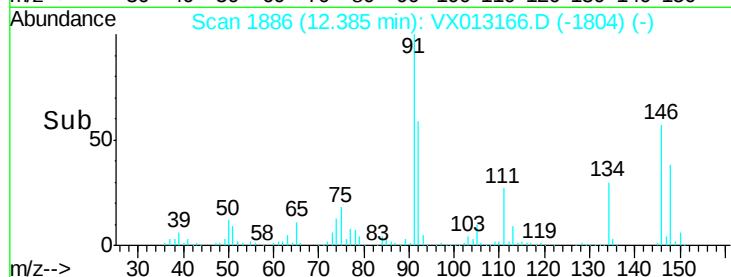
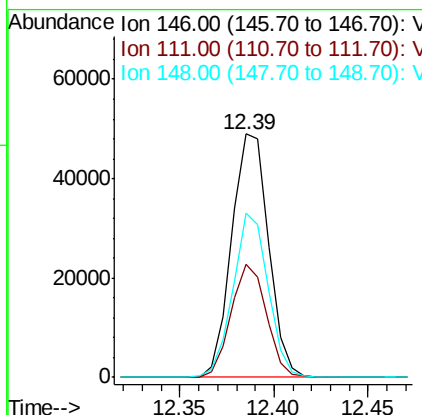
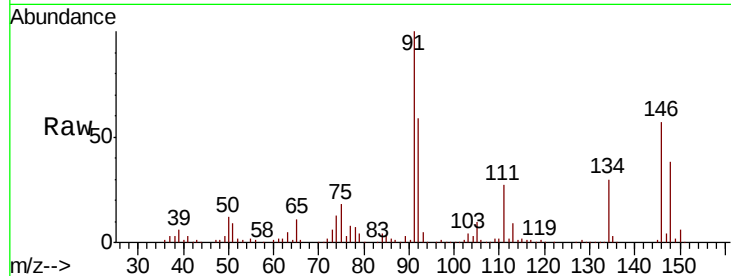
ClientSampleId :

VSTDCCC020EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 66756 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 44.4  | 22.5  | 67.5  |
| 148       | 64.1  | 31.4  | 94.2  |

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#88

1,2-Dibromo-3-Chloropropane

Concen: 16.897 ug/l

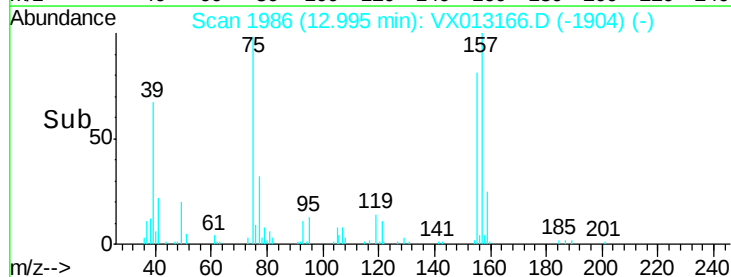
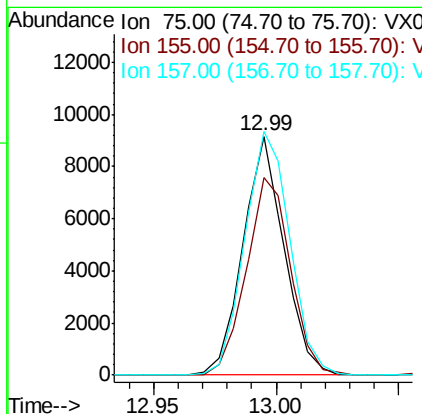
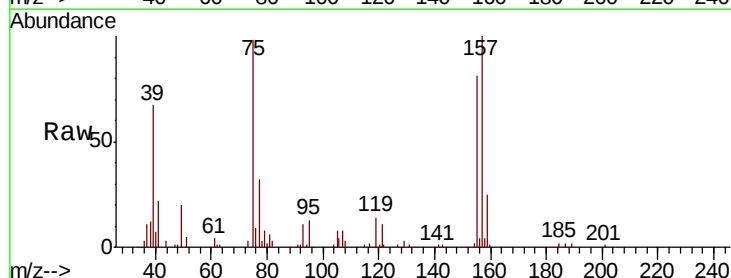
RT: 12.99 min Scan# 1986

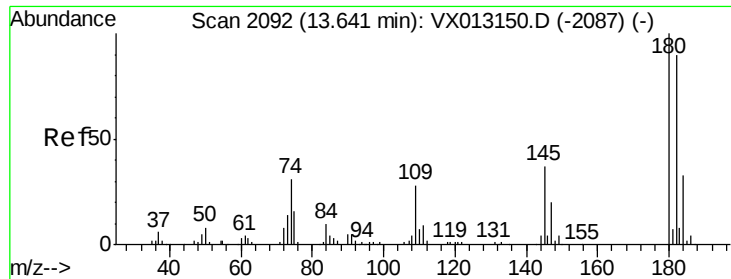
Delta R.T. -0.00 min

Lab File: VX013166.D

Acq: 21 Oct 2019 20:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 10746 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 88.7  | 65.4  | 98.0  |
| 157       | 111.6 | 84.1  | 126.1 |





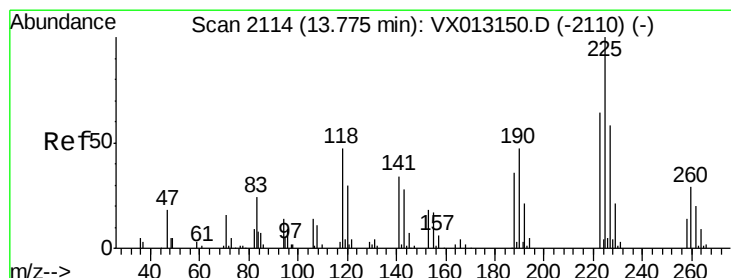
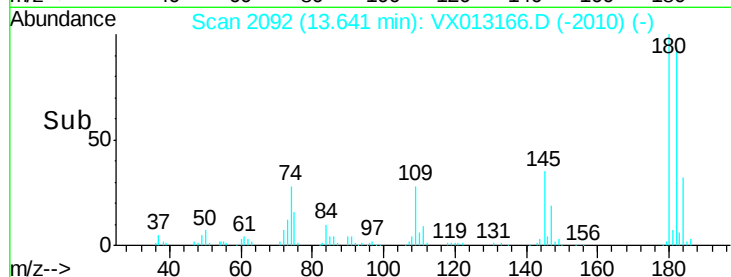
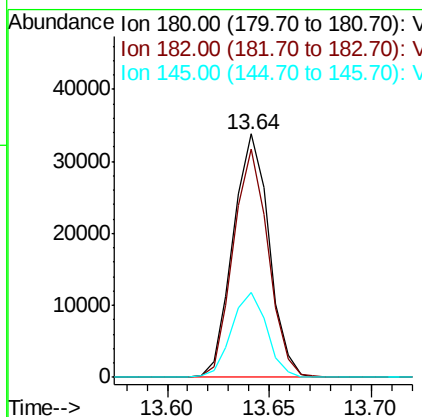
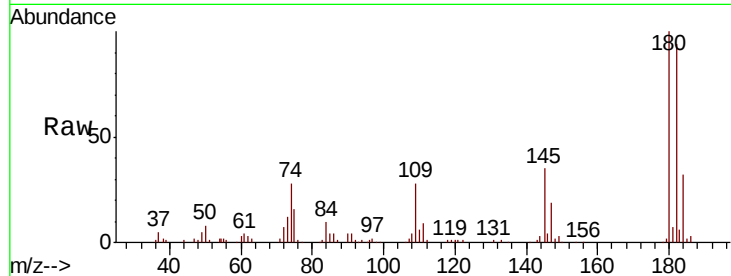
#89  
1,2,4-Trichlorobenzene  
Concen: 18.578 ug/l  
RT: 13.64 min Scan# 2092  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.1  | 76.1  | 114.1 |
| 145     | 34.4  | 27.4  | 41.2  |

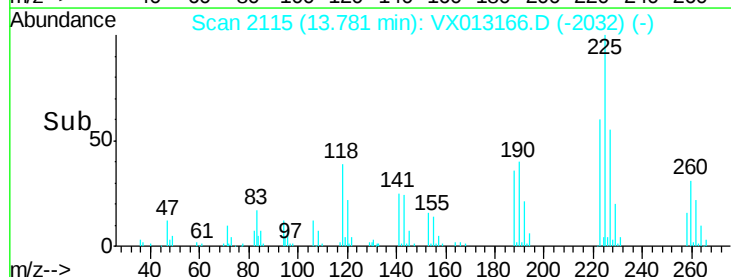
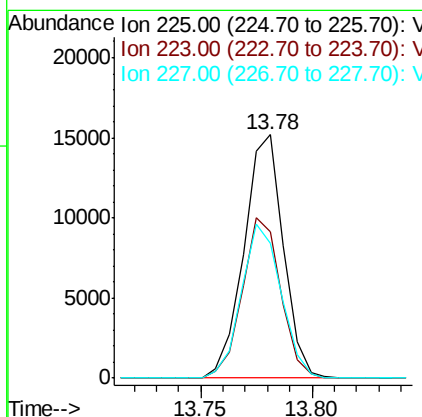
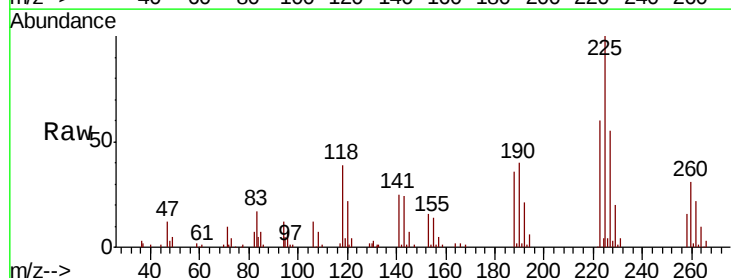
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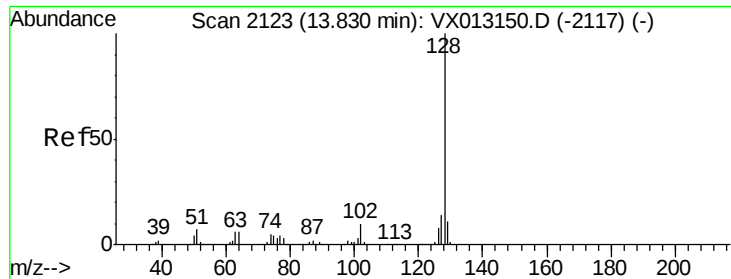
MMDadoda  
10/22/2019 12:32:37 PM



#90  
Hexachlorobutadiene  
Concen: 16.622 ug/l  
RT: 13.78 min Scan# 2115  
Delta R.T. 0.01 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.2  | 0.0   | 131.2 |
| 227     | 63.4  | 0.0   | 127.0 |





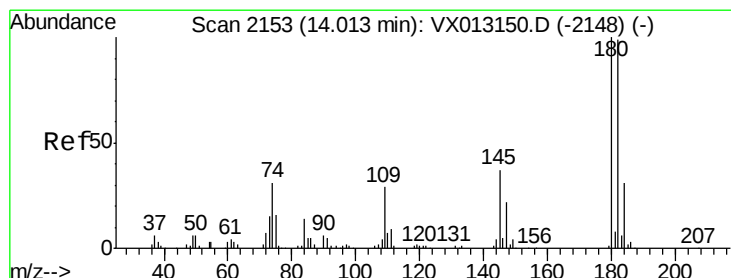
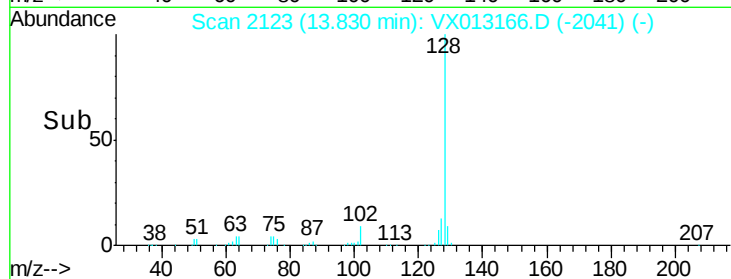
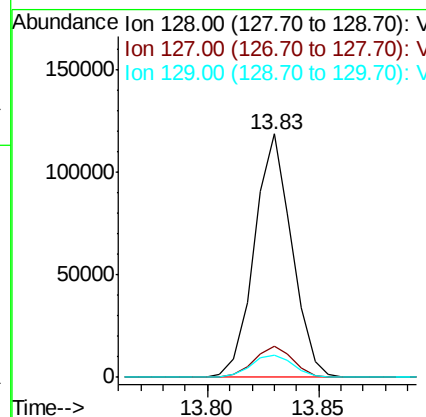
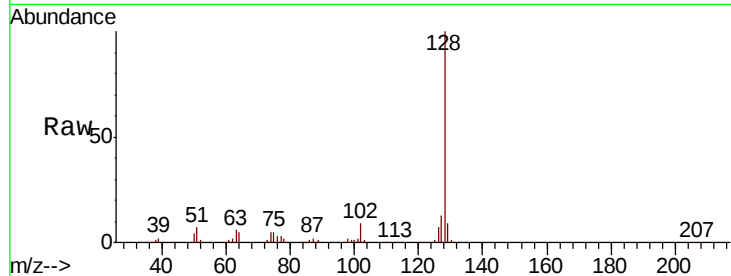
#91  
Naphthalene  
Concen: 19.120 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.1  | 10.5  | 15.7  |
| 129     | 10.5  | 8.6   | 12.8  |

Manual Integrations  
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#92  
1,2,3-Trichlorobenzene  
Concen: 18.229 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. -0.00 min  
Lab File: VX013166.D  
Acq: 21 Oct 2019 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.8  | 0.0   | 194.4 |
| 145     | 34.3  | 0.0   | 71.2  |

