

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121818\  
 Data File : VF061058.D  
 Acq On : 18 Dec 2018 13:02  
 Operator : VA/AP  
 Sample : VF1218SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 12/19/2018 2:14:54 PM

Quant Time: Dec 19 01:19:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 4.87  | 168  | 169806   | 50.00   | ug/l    | -0.04    |
| 34) 1,4-Difluorobenzene       | 5.60  | 114  | 293093   | 50.00   | ug/l    | -0.04    |
| 63) Chlorobenzene-d5          | 9.78  | 117  | 262324   | 50.00   | ug/l    | -0.03    |
| 72) 1,4-Dichlorobenzene-d4    | 12.55 | 152  | 136839   | 50.00   | ug/l    | -0.02    |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 4.84  | 65   | 121577   | 60.78   | ug/l    | -0.04    |
| Spiked Amount 50.000          |       |      | Recovery | =       | 121.56% |          |
| 35) Dibromofluoromethane      | 4.11  | 113  | 125898   | 54.15   | ug/l    | -0.04    |
| Spiked Amount 50.000          |       |      | Recovery | =       | 108.30% |          |
| 50) Toluene-d8                | 7.55  | 98   | 337168   | 49.23   | ug/l    | -0.04    |
| Spiked Amount 50.000          |       |      | Recovery | =       | 98.46%  |          |
| 62) 4-Bromofluorobenzene      | 11.41 | 95   | 157797   | 50.69   | ug/l    | -0.03    |
| Spiked Amount 50.000          |       |      | Recovery | =       | 101.38% |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 0.96  | 85   | 53769    | 21.178  | ug/l    | 93       |
| 3) Chloromethane              | 1.11  | 50   | 35006    | 21.188  | ug/l    | 97       |
| 4) Vinyl Chloride             | 1.14  | 62   | 37433    | 24.290  | ug/l    | 93       |
| 5) Bromomethane               | 1.34  | 94   | 25312    | 23.293  | ug/l    | 88       |
| 6) Chloroethane               | 1.39  | 64   | 15931    | 23.915  | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 1.49  | 101  | 77583    | 23.464  | ug/l    | 94       |
| 8) Diethyl Ether              | 1.63  | 74   | 10672    | 22.445  | ug/l    | 95       |
| 9) 1,1,2-Trichlorotrifluoroet | 1.84  | 101  | 39610    | 23.696  | ug/l    | 90       |
| 10) Methyl Iodide             | 1.91  | 142  | 60656m   | 23.872  | ug/l    |          |
| 11) Tert butyl alcohol        | 2.58  | 59   | 9542     | 116.366 | ug/l #  | 92       |
| 12) 1,1-Dichloroethene        | 1.79  | 96   | 31764    | 23.625  | ug/l    | 86       |
| 13) Acrolein                  | 2.01  | 56   | 5903     | 75.979  | ug/l    | 91       |
| 14) Allyl chloride            | 2.10  | 41   | 37522    | 22.390  | ug/l    | 92       |
| 15) Acrylonitrile             | 2.94  | 53   | 22546    | 122.641 | ug/l    | 95       |
| 16) Acetone                   | 2.24  | 43   | 49512    | 134.222 | ug/l    | 100      |
| 17) Carbon Disulfide          | 1.84  | 76   | 82312m   | 22.832  | ug/l    |          |
| 18) Methyl Acetate            | 2.34  | 43   | 17752    | 27.957  | ug/l    | 95       |
| 19) Methyl tert-butyl Ether   | 2.43  | 73   | 68518    | 22.626  | ug/l    | 100      |
| 20) Methylene Chloride        | 2.24  | 84   | 33531m   | 24.778  | ug/l    |          |
| 21) trans-1,2-Dichloroethene  | 2.30  | 96   | 23434    | 18.078  | ug/l    | 84       |
| 22) Diisopropyl ether         | 2.80  | 45   | 109483   | 24.001  | ug/l    | 98       |
| 23) Vinyl Acetate             | 3.19  | 43   | 252114   | 120.908 | ug/l    | 98       |
| 24) 1,1-Dichloroethane        | 2.87  | 63   | 67860    | 25.004  | ug/l    | 97       |
| 25) 2-Butanone                | 4.34  | 43   | 74913    | 117.412 | ug/l    | 92       |
| 26) 2,2-Dichloropropane       | 3.60  | 77   | 41921    | 23.825  | ug/l    | 97       |
| 27) cis-1,2-Dichloroethene    | 3.48  | 96   | 50388    | 23.877  | ug/l    | 89       |
| 28) Bromochloromethane        | 3.71  | 49   | 34920    | 26.810  | ug/l    | 99       |
| 29) Tetrahydrofuran           | 4.08  | 42   | 32965    | 121.888 | ug/l    | 97       |
| 30) Chloroform                | 3.86  | 83   | 98398    | 23.557  | ug/l    | 97       |
| 31) Cyclohexane               | 3.68  | 56   | 68082m   | 24.171  | ug/l    |          |
| 32) 1,1,1-Trichloroethane     | 4.09  | 97   | 60335    | 20.828  | ug/l    | 96       |
| 36) 1,1-Dichloropropene       | 4.28  | 75   | 72473    | 22.293  | ug/l    | 98       |
| 37) Ethyl Acetate             | 4.11  | 43   | 31580    | 23.905  | ug/l #  | 95       |
| 38) Carbon Tetrachloride      | 3.99  | 117  | 61595    | 21.452  | ug/l    | 99       |

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 Sample : VF1218SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 12/19/2018 2:14:54 PM

Quant Time: Dec 19 01:19:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.46  | 83   | 72379    | 21.245  | ug/l   | 98       |
| 40) Benzene                    | 4.63  | 78   | 164034   | 22.840  | ug/l   | 97       |
| 41) Methacrylonitrile          | 4.75  | 41   | 15988    | 21.135  | ug/l # | 92       |
| 42) 1,2-Dichloroethane         | 4.95  | 62   | 63603    | 24.258  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 6.96  | 43   | 35577    | 20.206  | ug/l # | 99       |
| 44) Trichloroethene            | 5.50  | 130  | 51612    | 21.979  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 6.24  | 63   | 44572    | 23.896  | ug/l   | 99       |
| 46) Dibromomethane             | 6.09  | 93   | 28243    | 22.321  | ug/l   | 93       |
| 47) Bromodichloromethane       | 6.39  | 83   | 75188    | 22.373  | ug/l   | 94       |
| 48) Methyl methacrylate        | 6.72  | 41   | 23770    | 19.878  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 6.70  | 88   | 4081     | 466.308 | ug/l # | 67       |
| 51) 4-Methyl-2-Pentanone       | 8.26  | 43   | 134859   | 110.700 | ug/l   | 96       |
| 52) Toluene                    | 7.63  | 92   | 110044   | 21.814  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.28  | 75   | 59914    | 21.918  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.30  | 75   | 73690    | 21.775  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.49  | 97   | 31530    | 21.450  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.63  | 69   | 35247    | 21.585  | ug/l   | 91       |
| 57) 1,3-Dichloropropane        | 8.85  | 76   | 56886    | 22.120  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.30  | 63   | 32259    | 193.139 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.49  | 43   | 95236    | 111.430 | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.72  | 129  | 45763    | 20.895  | ug/l   | 92       |
| 61) 1,2-Dibromoethane          | 8.99  | 107  | 33542    | 21.123  | ug/l   | 94       |
| 64) Tetrachloroethene          | 8.15  | 164  | 44448    | 22.184  | ug/l   | 95       |
| 65) Chlorobenzene              | 9.80  | 112  | 124203   | 24.338  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.93  | 131  | 49671    | 22.641  | ug/l   | 93       |
| 67) Ethyl Benzene              | 9.90  | 91   | 220081   | 23.165  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.14 | 106  | 153032   | 44.785  | ug/l   | 94       |
| 69) o-Xylene                   | 10.72 | 106  | 84587    | 22.449  | ug/l   | 92       |
| 70) Styrene                    | 10.79 | 104  | 120505   | 23.071  | ug/l   | 97       |
| 71) Bromoform                  | 10.78 | 173  | 23872    | 22.527  | ug/l   | 87       |
| 73) Isopropylbenzene           | 11.12 | 105  | 261926   | 24.222  | ug/l   | 98       |
| 74) N-amyl acetate             | 11.37 | 43   | 54828    | 21.957  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.69 | 83   | 43284    | 24.321  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.79 | 75   | 32849    | 25.393  | ug/l   | 90       |
| 77) Bromobenzene               | 11.50 | 156  | 50893    | 21.467  | ug/l   | 67       |
| 78) n-propylbenzene            | 11.60 | 91   | 311306   | 24.582  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.72 | 91   | 177641   | 24.464  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.82 | 105  | 212291   | 24.182  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 11.87 | 75   | 15196m   | 23.975  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.90 | 91   | 184295   | 24.117  | ug/l   | 92       |
| 83) tert-Butylbenzene          | 12.13 | 119  | 224006   | 25.050  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 12.21 | 105  | 212180   | 24.218  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 12.31 | 105  | 290768   | 23.753  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.46 | 119  | 254740   | 24.821  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.47 | 146  | 107107   | 23.751  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.56 | 146  | 104322   | 23.738  | ug/l   | 94       |
| 89) n-Butylbenzene             | 12.85 | 91   | 264413   | 25.479  | ug/l   | 96       |
| 90) Hexachloroethane           | 12.92 | 117  | 57722    | 23.356  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.95 | 146  | 98273    | 23.012  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.65 | 75   | 7770     | 22.582  | ug/l   | 94       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121818\  
Data File : VF061058.D  
Acq On : 18 Dec 2018 13:02  
Operator : VA/AP  
Sample : VF1218SBS01  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

Manual Integrations  
APPROVED

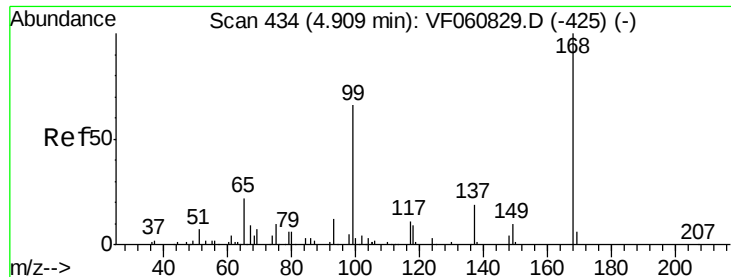
MMDadoda  
12/19/2018 2:14:54 PM

Quant Time: Dec 19 01:19:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.20 | 180  | 70672    | 23.684 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.19 | 225  | 46551    | 23.402 | ug/l  | 99       |
| 95) Naphthalene            | 14.46 | 128  | 126388   | 19.703 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.60 | 180  | 64657    | 23.336 | ug/l  | 97       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion:168 Resp: 169806

Ion Ratio Lower Upper

168 100

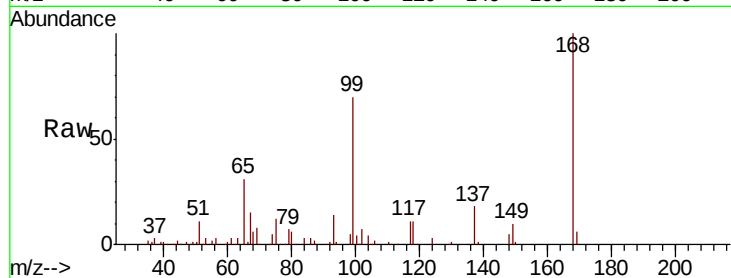
99 69.8 52.6 79.0

Manual Integrations

APPROVED

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12/19/2018 2:14:54 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

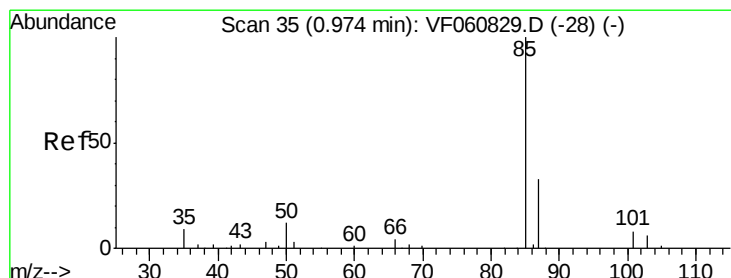
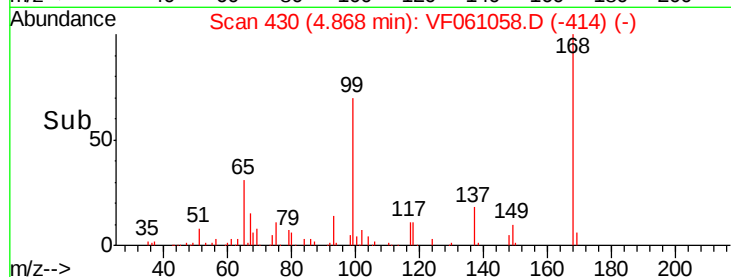
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.178 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF061058.D

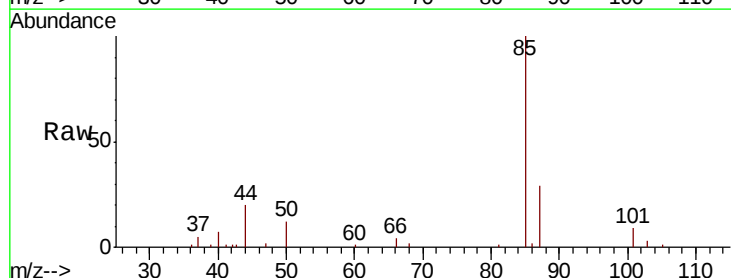
Acq: 18 Dec 2018 13:02

Tgt Ion: 85 Resp: 53769

Ion Ratio Lower Upper

85 100

87 29.3 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

15000

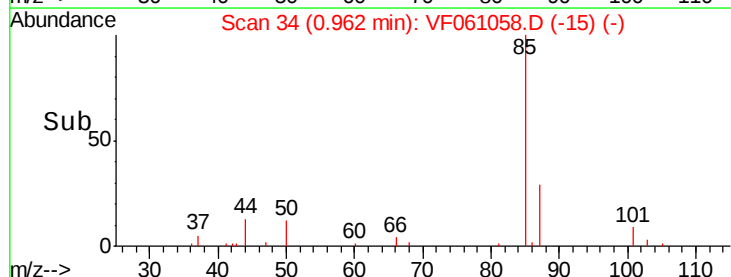
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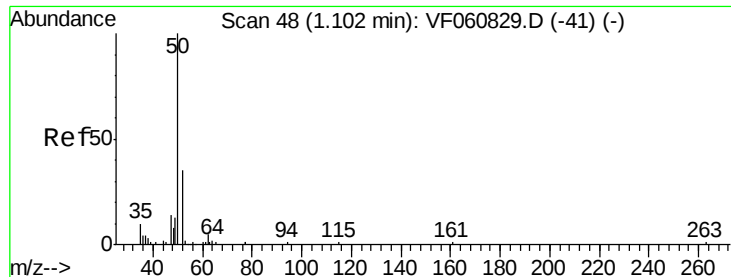
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0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 21.188 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 50 Resp: 35006

Ion Ratio Lower Upper

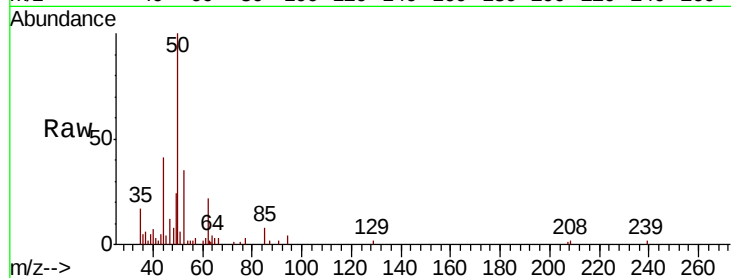
50 100

52 35.4 27.0 40.4

Manual Integrations  
APPROVED

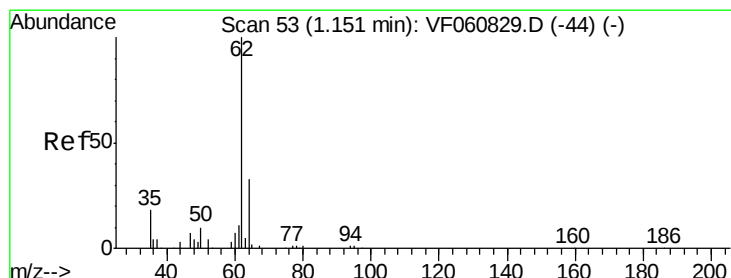
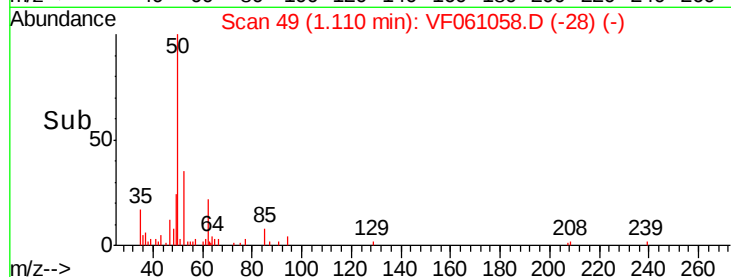
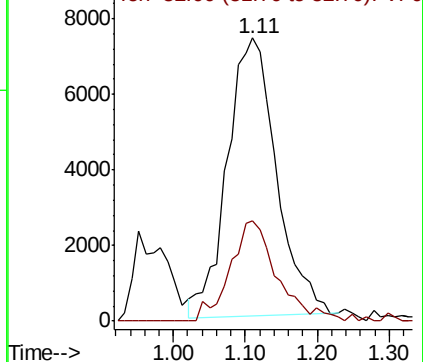
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 24.290 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF061058.D

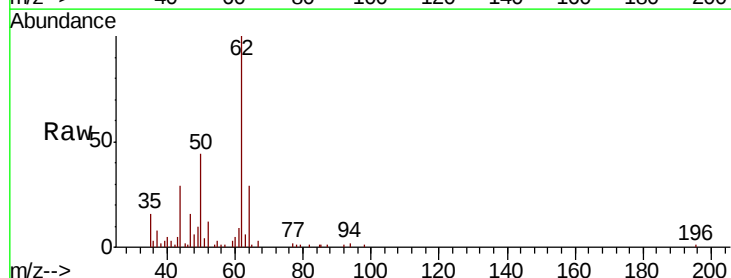
Acq: 18 Dec 2018 13:02

Tgt Ion: 62 Resp: 37433

Ion Ratio Lower Upper

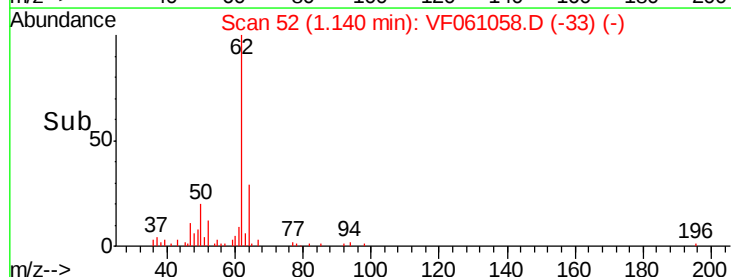
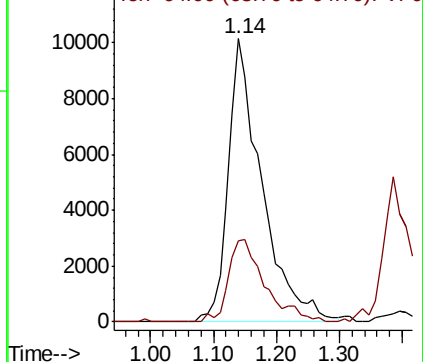
62 100

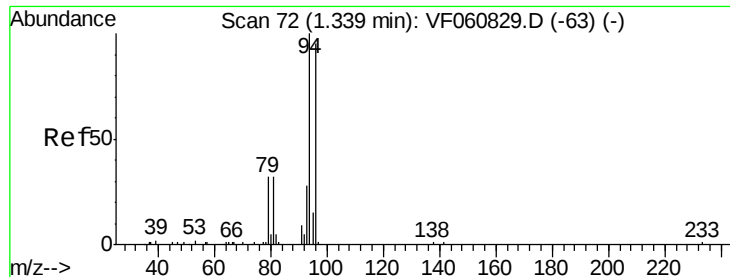
64 28.8 26.4 39.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 23.293 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 94 Resp: 25312

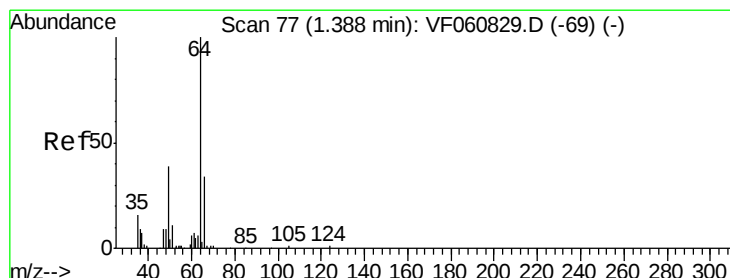
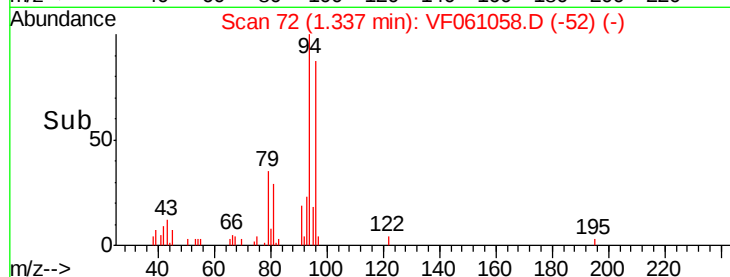
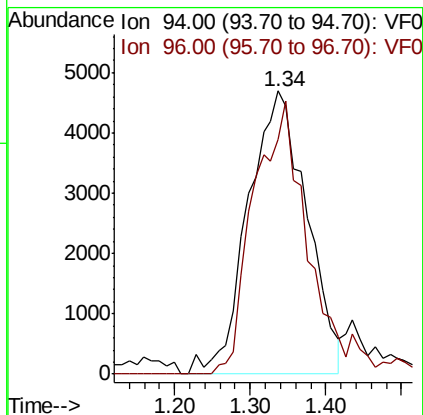
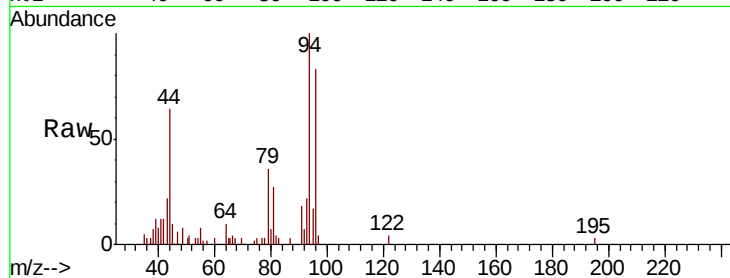
Ion Ratio Lower Upper

94 100

96 83.1 75.9 113.9

Manual Integrations  
APPROVED

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12/19/2018 2:14:54 PM



#6

Chloroethane

Concen: 23.915 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061058.D

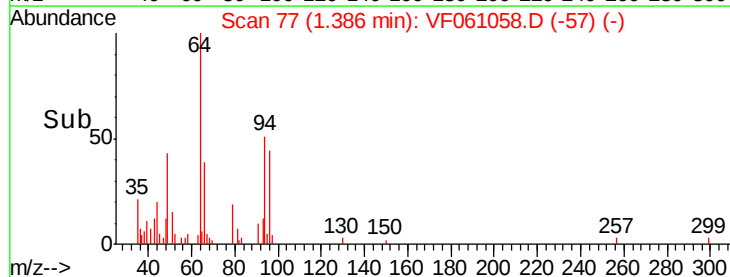
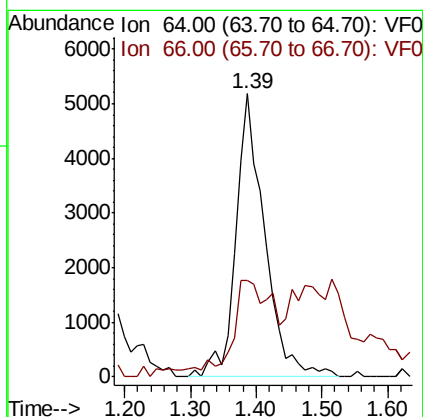
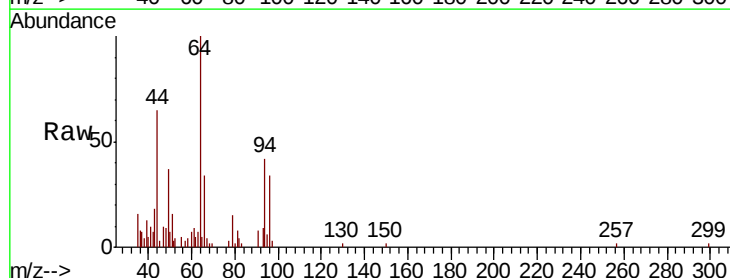
Acq: 18 Dec 2018 13:02

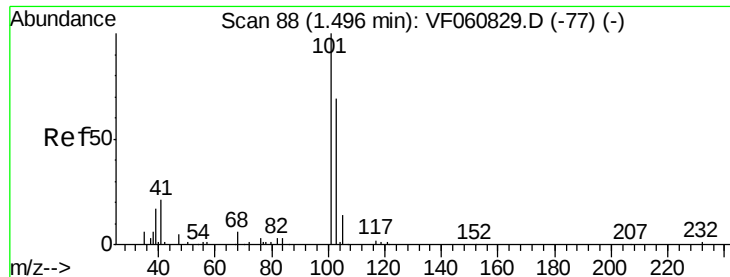
Tgt Ion: 64 Resp: 15931

Ion Ratio Lower Upper

64 100

66 34.2 28.1 42.1





#7

Trichlorofluoromethane

Concen: 23.464 ug/l

RT: 1.49 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion:101 Resp: 77583

Ion Ratio Lower Upper

101 100

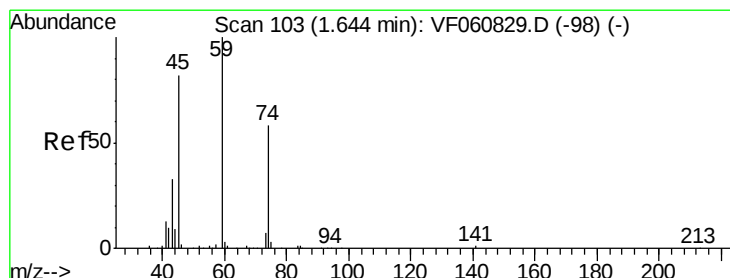
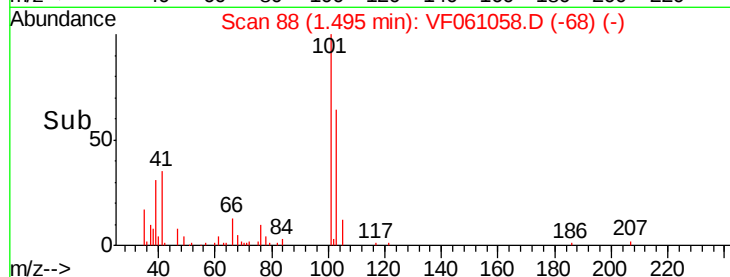
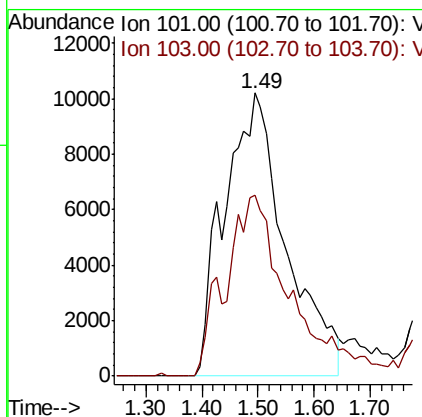
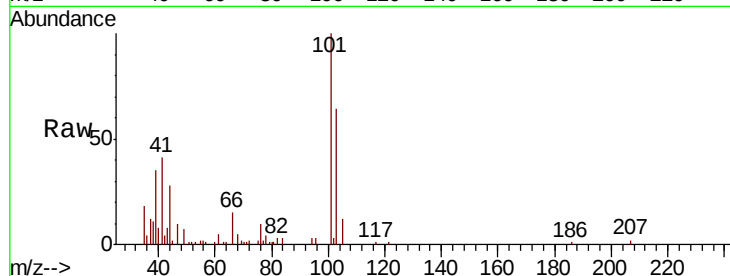
103 64.0 55.4 83.0

Manual Integrations

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MMDadoda

12/19/2018 2:14:54 PM



#8

Diethyl Ether

Concen: 22.445 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF061058.D

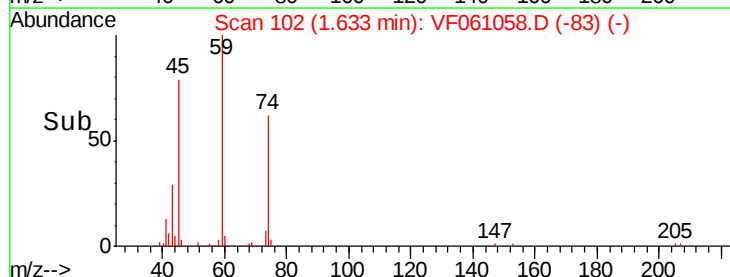
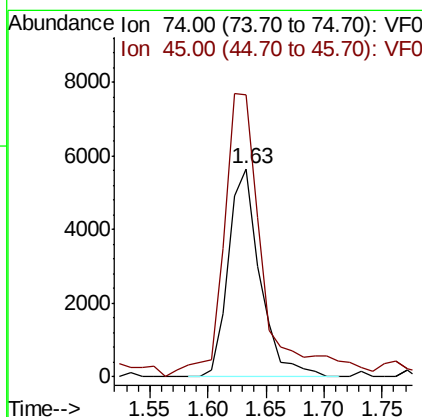
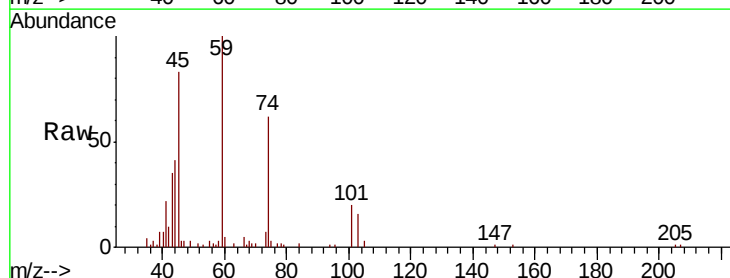
Acq: 18 Dec 2018 13:02

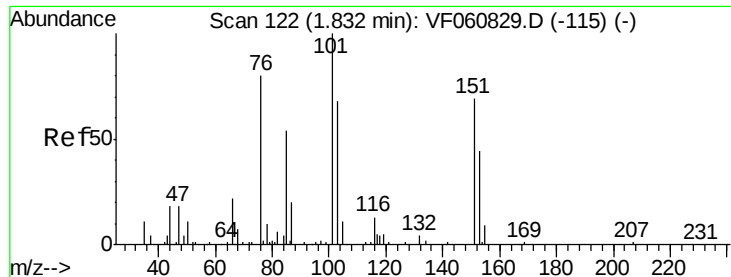
Tgt Ion: 74 Resp: 10672

Ion Ratio Lower Upper

74 100

45 135.4 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.696 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

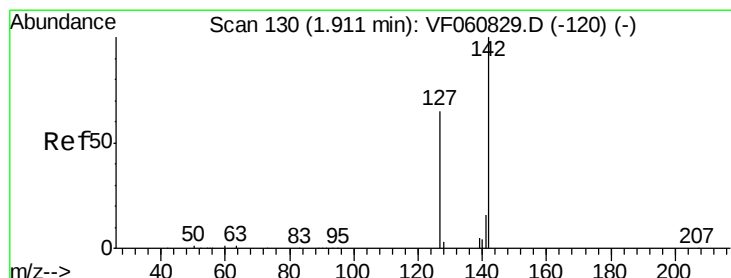
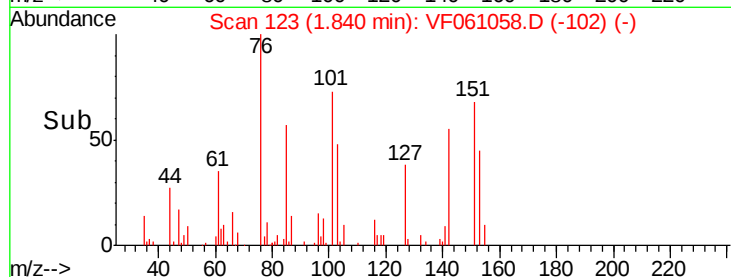
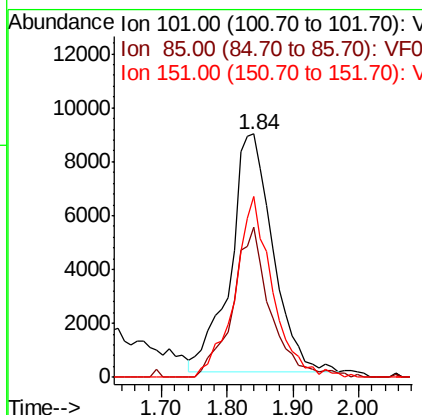
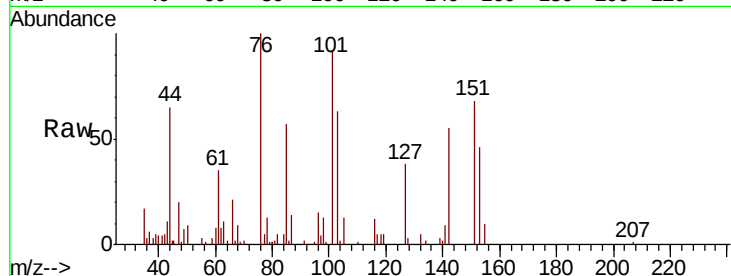
ClientSampleId :

VF1218SBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 39610 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 61.8  | 42.8  | 64.2  |
| 151       | 74.4  | 54.4  | 81.6  |

Manual Integrations  
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MMDadoda  
12/19/2018 2:14:54 PM



#10

Methyl Iodide

Concen: 23.872 ug/l m

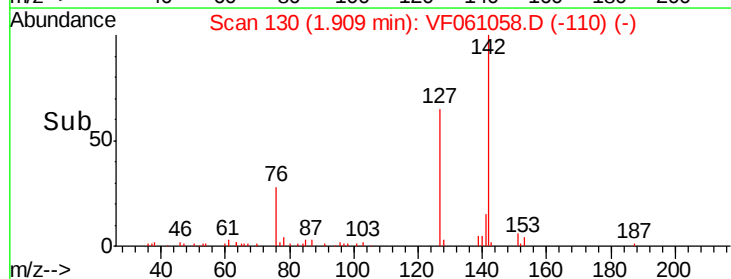
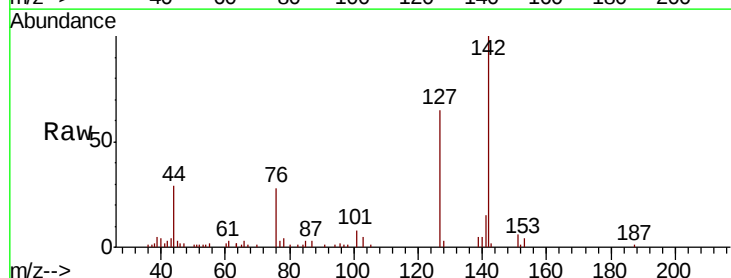
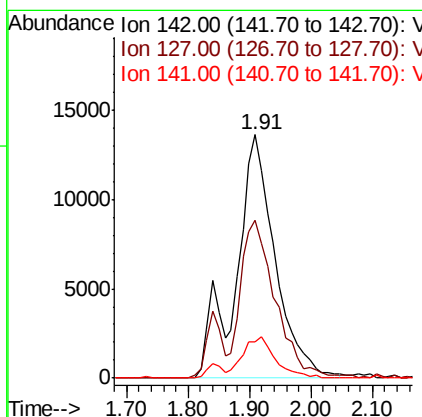
RT: 1.91 min Scan# 130

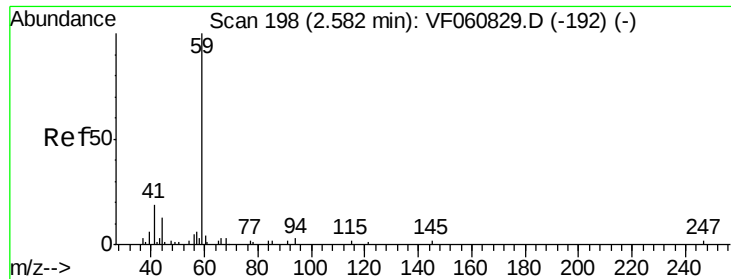
Delta R.T. -0.00 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 60656 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 64.9  | 51.9  | 77.9  |
| 141       | 15.0  | 12.7  | 19.1  |





#11

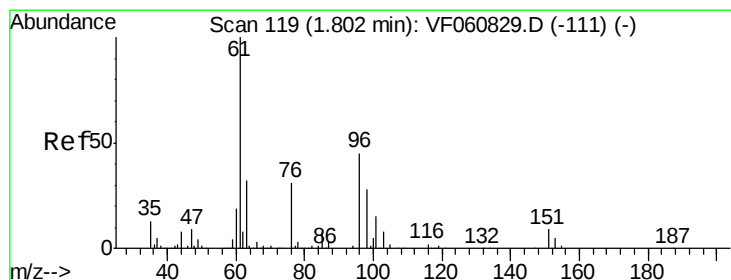
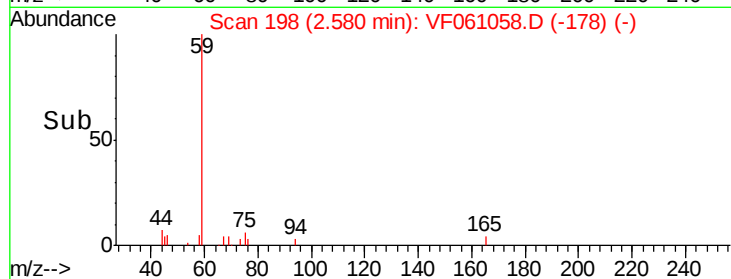
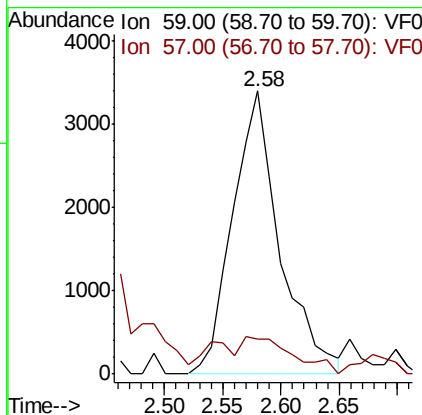
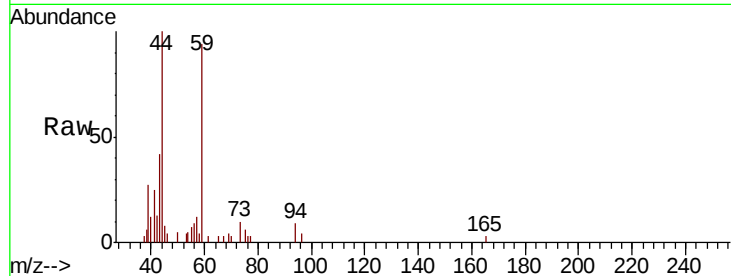
Tert butyl alcohol  
 Concen: 116.366 ug/l  
 RT: 2.58 min Scan# 198  
 Delta R.T. -0.00 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 12.4  | 12.7  | 19.1# |

Manual Integrations  
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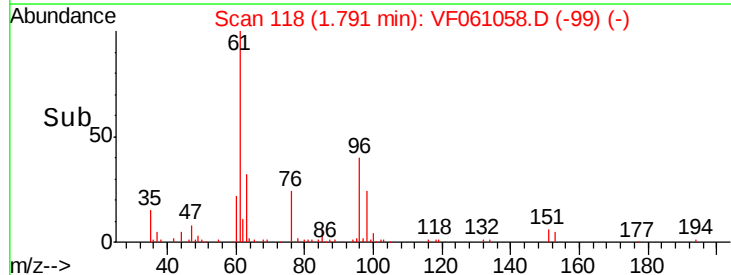
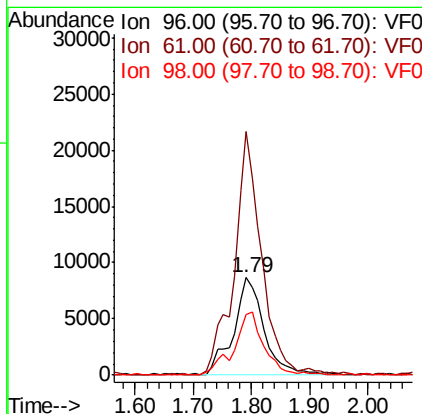
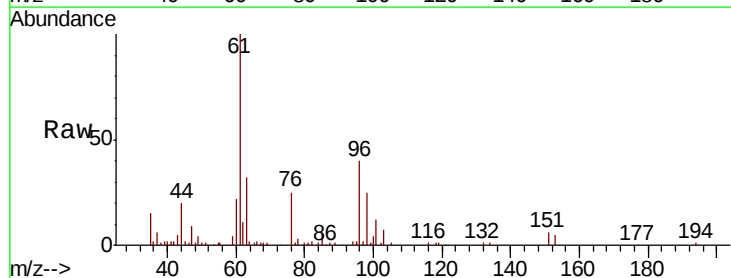
MMDadoda  
 12/19/2018 2:14:54 PM

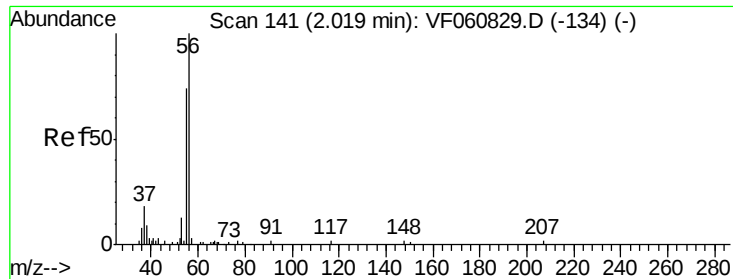


#12

1,1-Dichloroethene  
 Concen: 23.625 ug/l  
 RT: 1.79 min Scan# 118  
 Delta R.T. -0.01 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 250.5 | 177.3 | 265.9 |
| 98      | 62.2  | 49.6  | 74.4  |





#13

Acrolein

Concen: 75.979 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 56 Resp: 5903

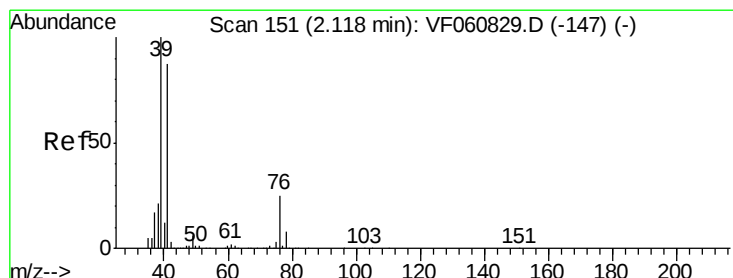
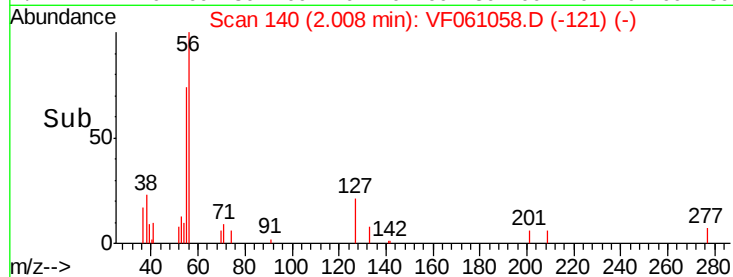
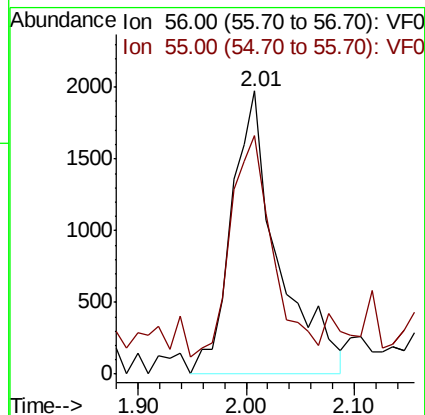
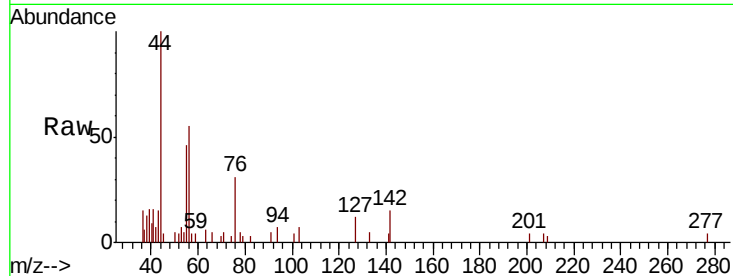
Ion Ratio Lower Upper

56 100

55 84.1 61.2 91.8

Manual Integrations  
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12/19/2018 2:14:54 PM



#14

Allyl chloride

Concen: 22.390 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

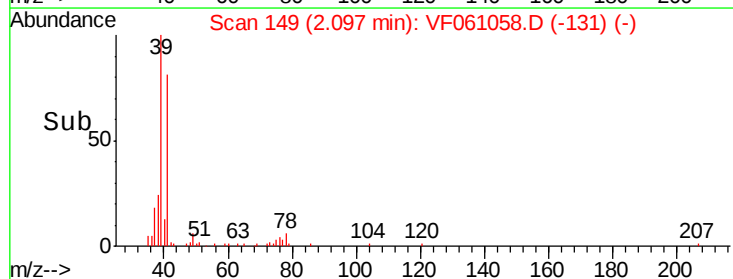
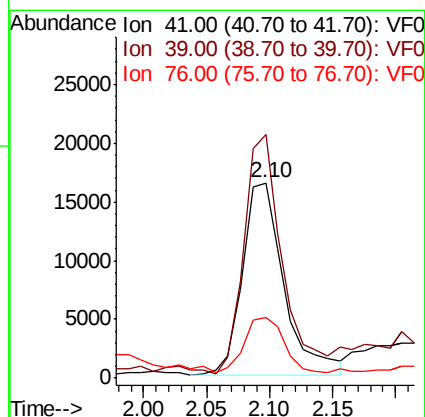
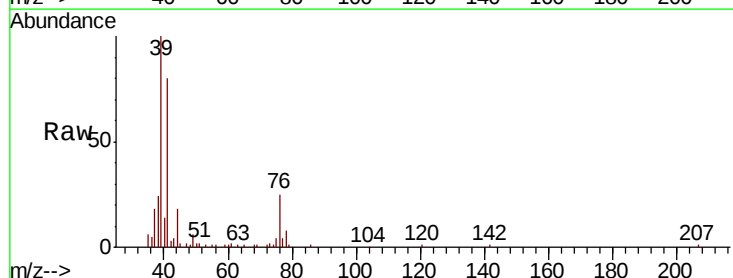
Tgt Ion: 41 Resp: 37522

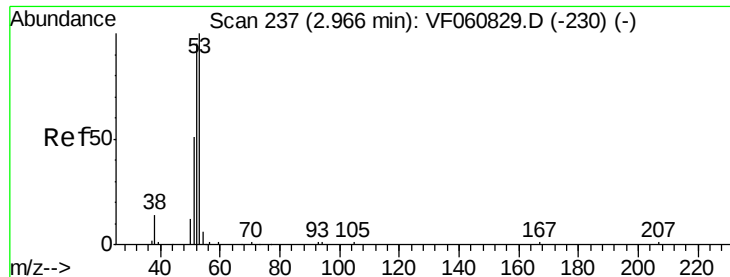
Ion Ratio Lower Upper

41 100

39 124.7 91.7 137.5

76 31.2 23.5 35.3





#15

Acrylonitrile

Concen: 122.641 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

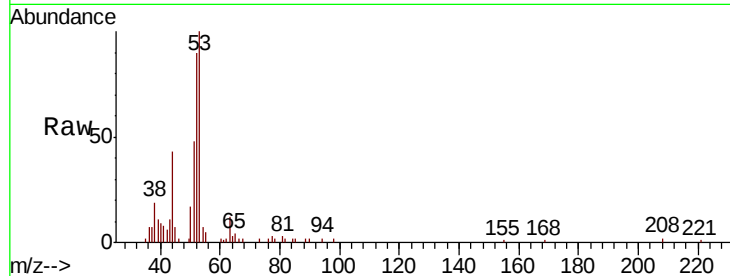
ClientSampleId :

VF1218SBS01

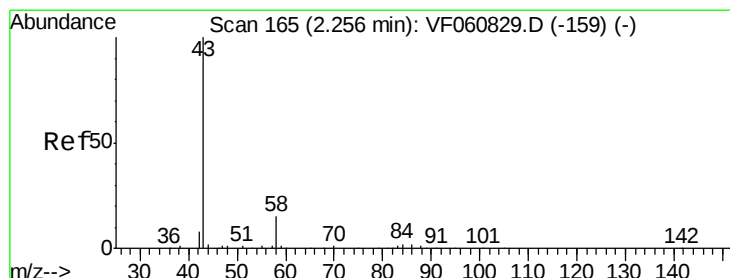
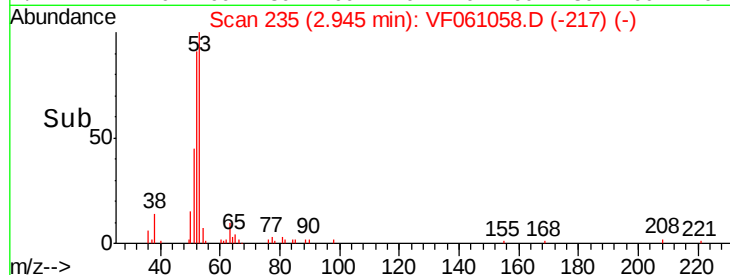
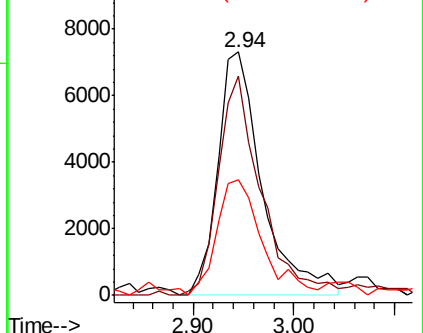
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 22546 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 89.9  | 76.5  | 114.7 |
| 51       | 47.6  | 40.7  | 61.1  |

Manual Integrations  
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Abundance Ion 53.00 (52.70 to 53.70): VF0  
Ion 52.00 (51.70 to 52.70): VF0  
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 134.222 ug/l

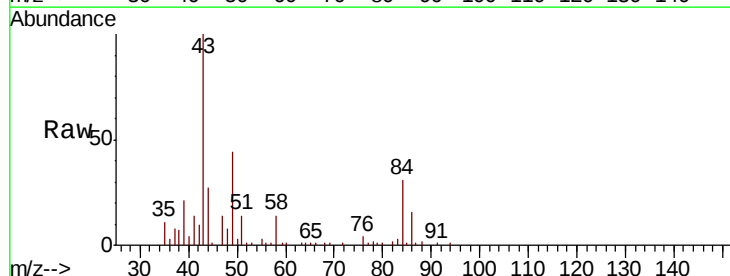
RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

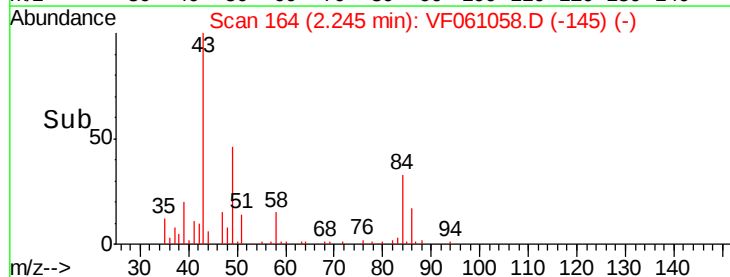
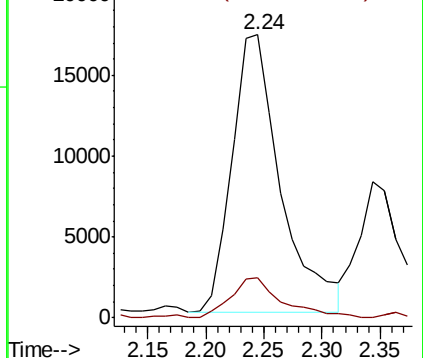
Lab File: VF061058.D

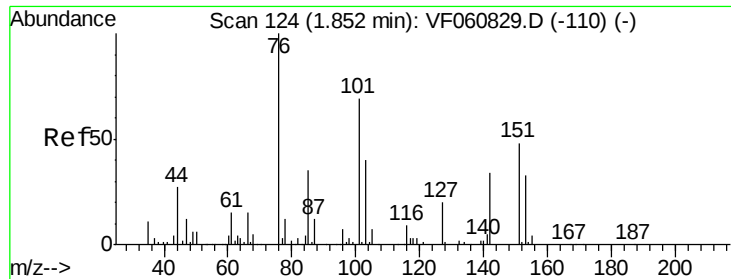
Acq: 18 Dec 2018 13:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 49512 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 14.3  | 11.4  | 17.2  |



Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 58.00 (57.70 to 58.70): VF0





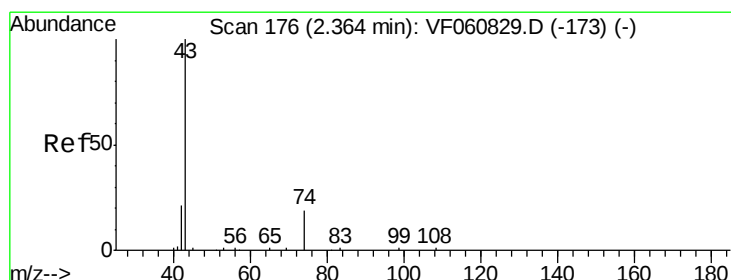
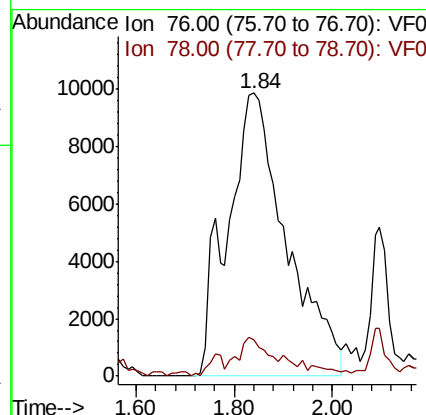
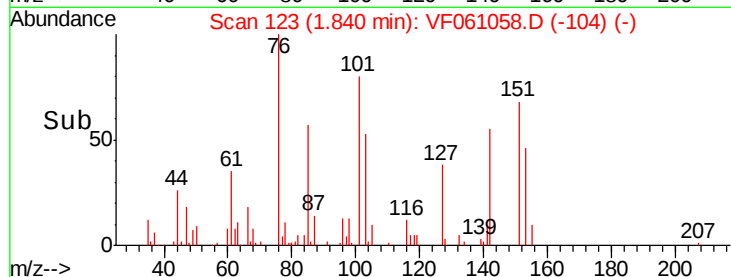
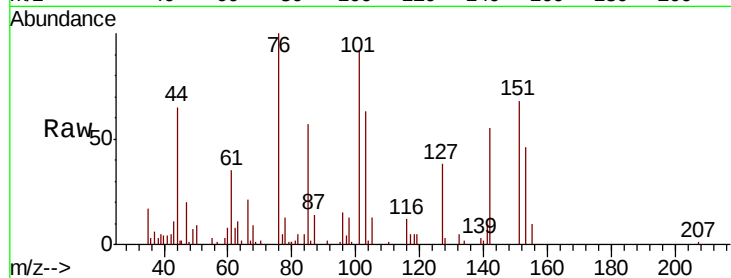
#17  
Carbon Disulfide  
Concen: 22.832 ug/l m  
RT: 1.84 min Scan# 123  
Delta R.T. -0.01 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

Tot Ion: 76 Resp: 82312  
Ion Ratio Lower Upper  
76 100  
78 12.6 10.2 15.2

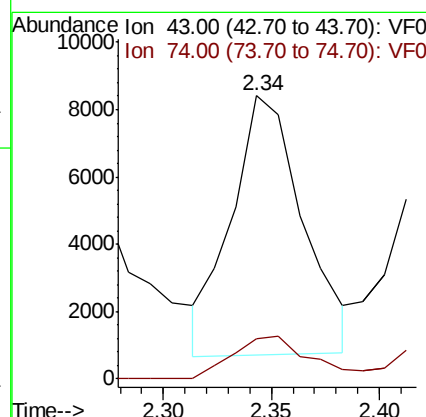
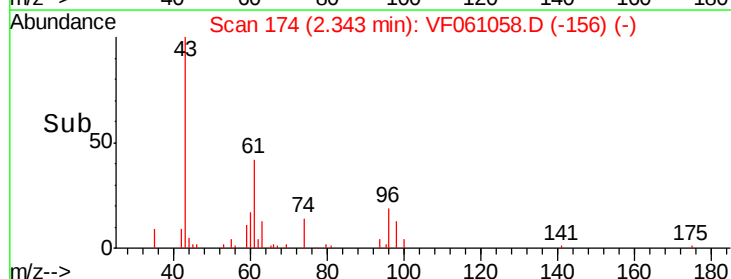
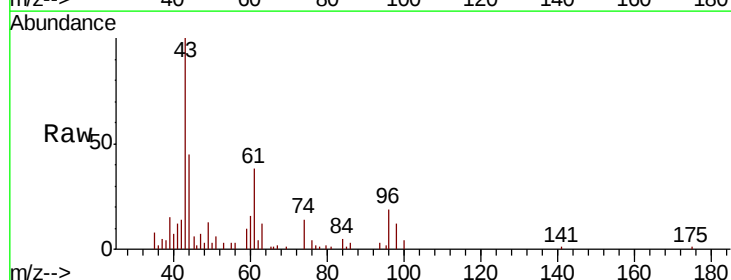
Manual Integrations  
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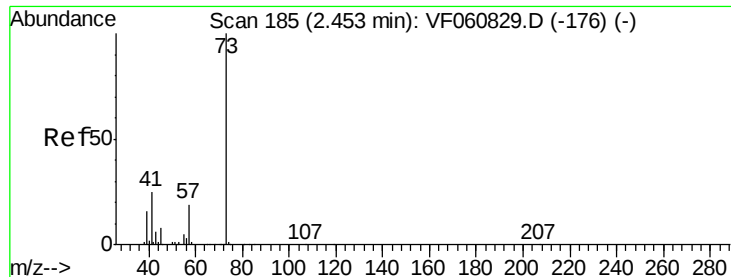
MMDadoda  
12/19/2018 2:14:54 PM



#18  
Methyl Acetate  
Concen: 27.957 ug/l  
RT: 2.34 min Scan# 174  
Delta R.T. -0.02 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Tgt Ion: 43 Resp: 17752  
Ion Ratio Lower Upper  
43 100  
74 14.3 13.3 19.9





#19

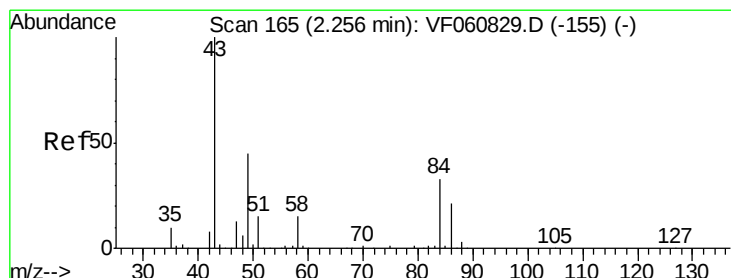
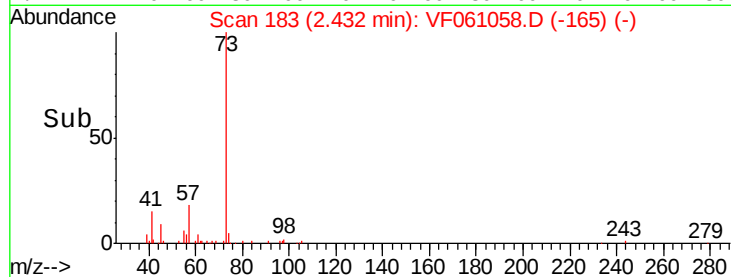
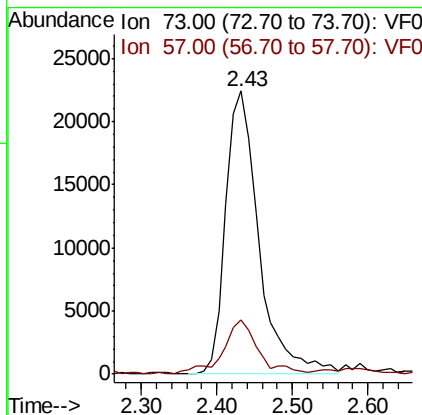
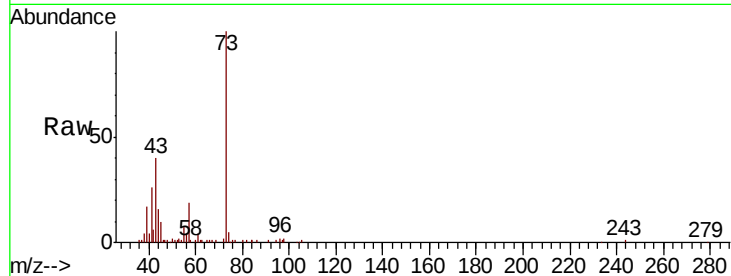
Methyl tert-butyl Ether  
 Concen: 22.626 ug/l  
 RT: 2.43 min Scan# 183  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 19.2  | 15.3  | 22.9  |

Manual Integrations  
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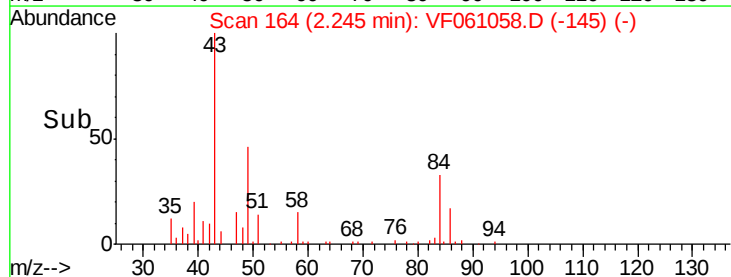
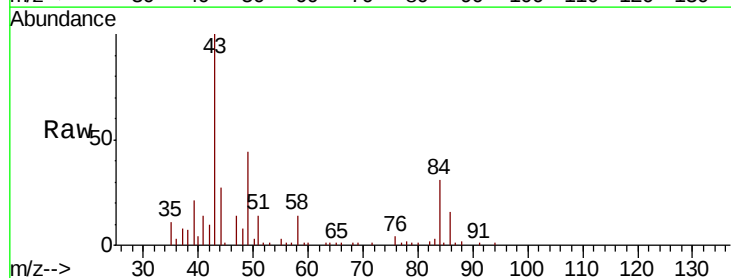
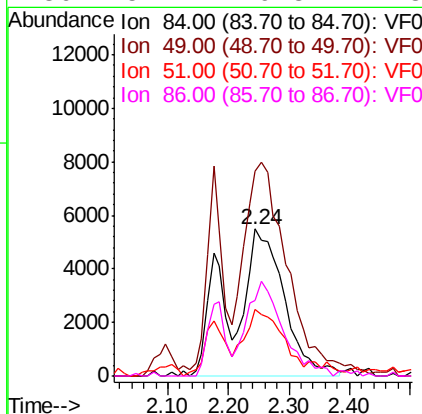
MMDadoda  
 12/19/2018 2:14:54 PM

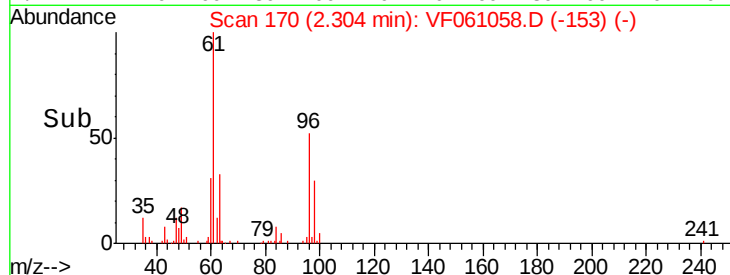
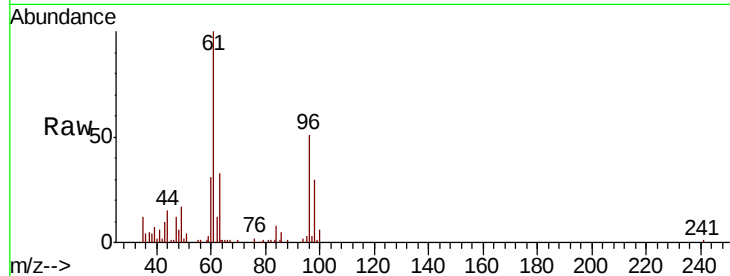
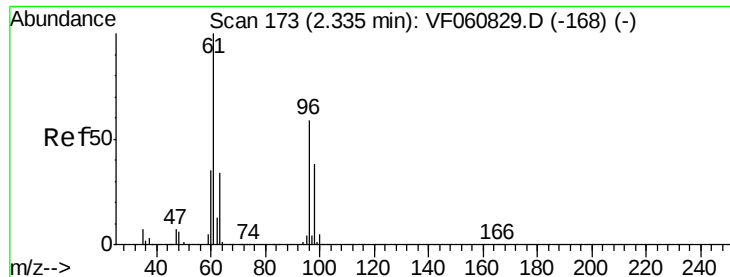


#20

Methylene Chloride  
 Concen: 24.778 ug/l m  
 RT: 2.24 min Scan# 164  
 Delta R.T. -0.01 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 139.4 | 111.3 | 166.9 |
| 51      | 45.2  | 38.0  | 57.0  |
| 86      | 51.7  | 49.8  | 74.8  |





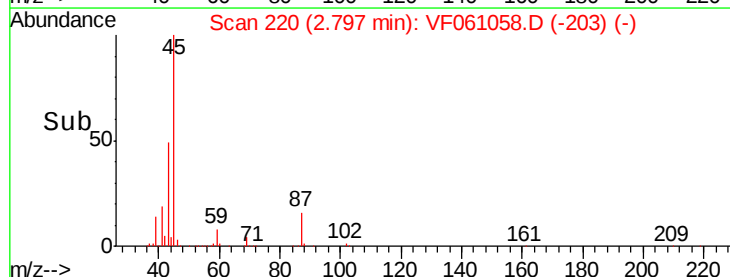
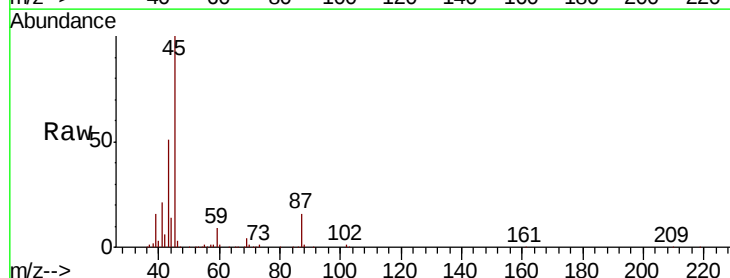
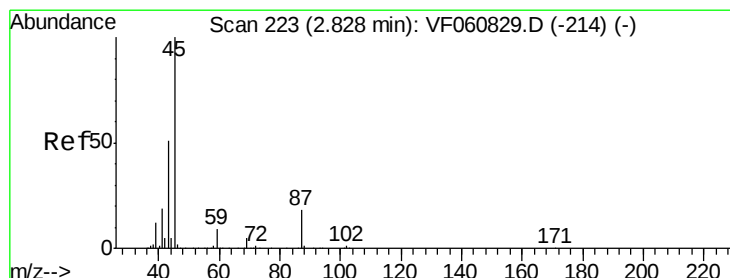
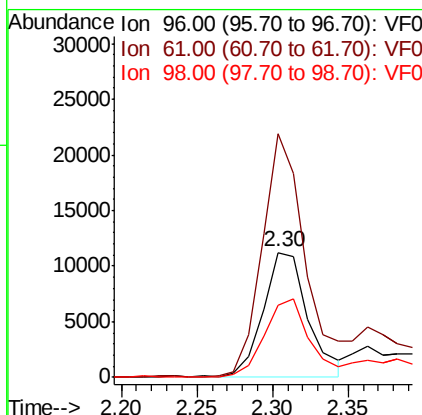
#21  
trans-1,2-Dichloroethene  
Concen: 18.078 ug/l  
RT: 2.30 min Scan# 170  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |
| 61      | 194.5 | 134.5 | 201.7 |       |
| 98      | 58.1  | 51.6  | 77.4  |       |

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

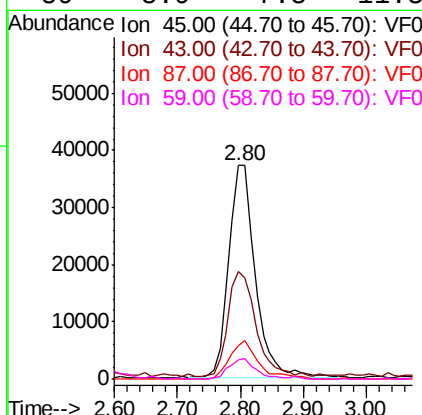
Manual Integrations  
APPROVED

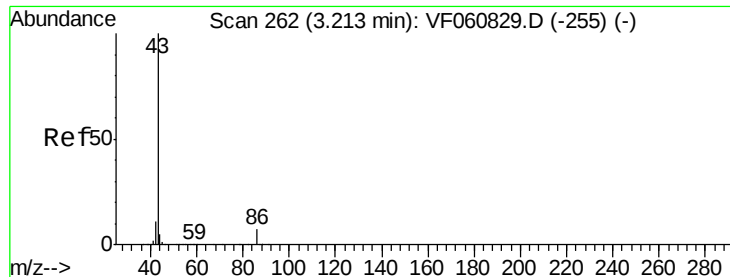
MMDadoda  
12/19/2018 2:14:54 PM



#22  
Diisopropyl ether  
Concen: 24.001 ug/l  
RT: 2.80 min Scan# 220  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 45      | 100  |       |       |       |
| 43      | 50.5 | 41.0  | 61.6  |       |
| 87      | 15.5 | 14.6  | 22.0  |       |
| 59      | 8.9  | 7.5   | 11.3  |       |





#23

Vinyl Acetate

Concen: 120.908 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 43 Resp: 252114

Ion Ratio Lower Upper

43 100

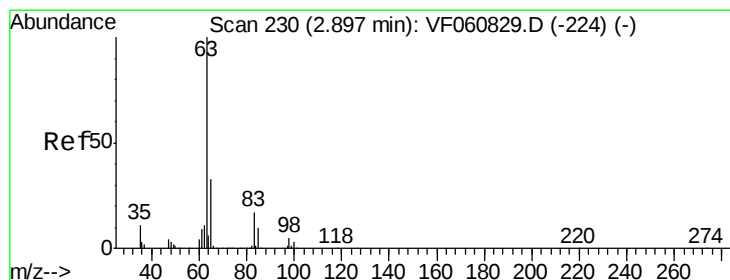
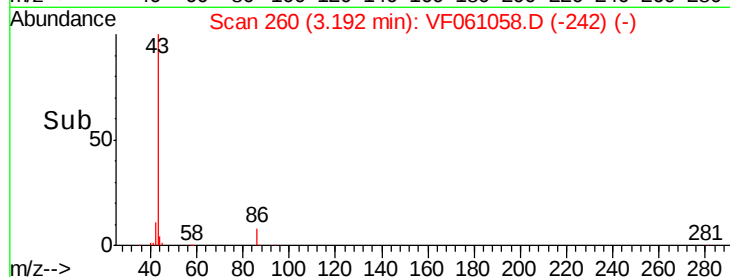
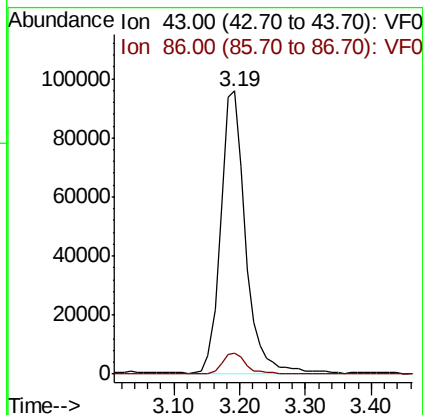
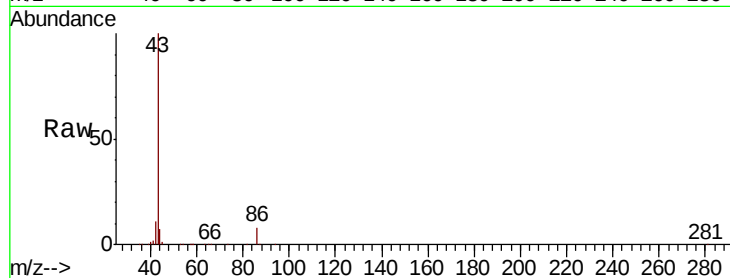
86 7.5 5.4 8.0

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 25.004 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

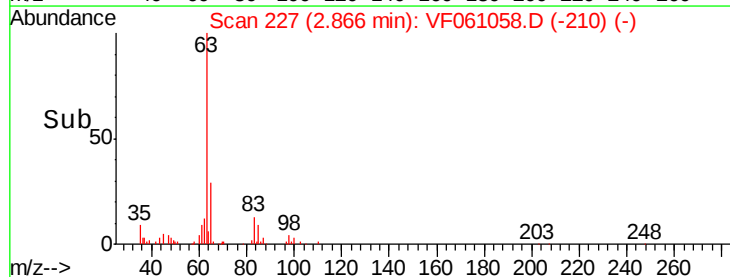
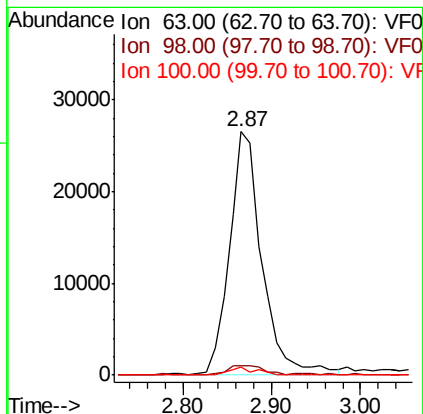
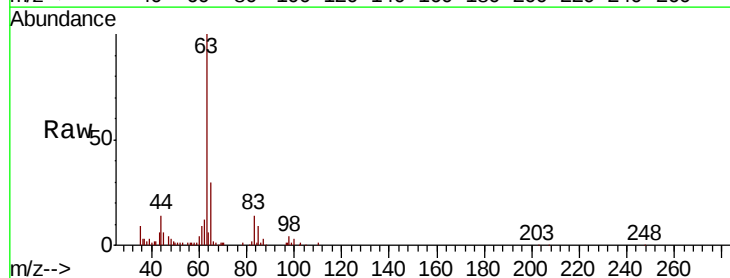
Tgt Ion: 63 Resp: 67860

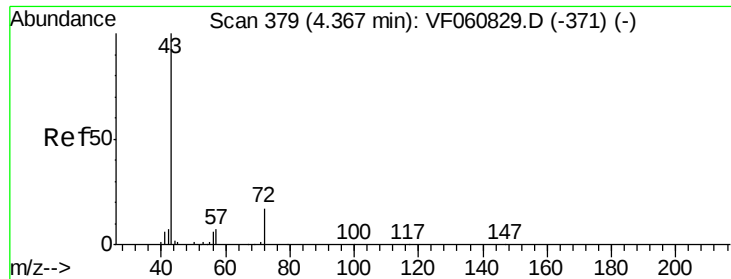
Ion Ratio Lower Upper

63 100

98 3.8 2.7 8.1

100 3.3 1.5 4.5





#25

2-Butanone

Concen: 117.412 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 43 Resp: 74913

Ion Ratio Lower Upper

43 100

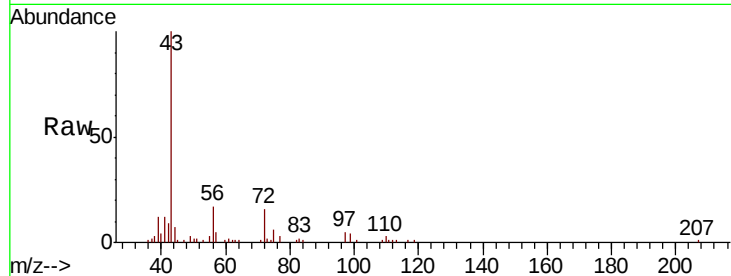
72 15.9 15.4 23.2

Manual Integrations

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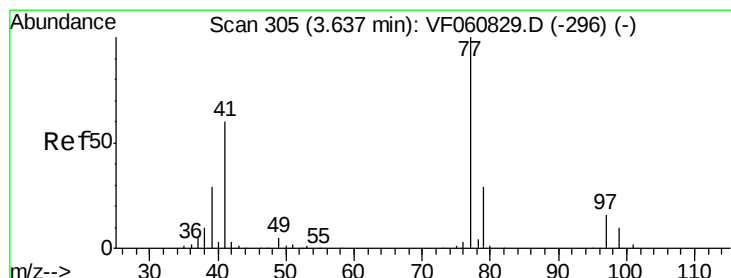
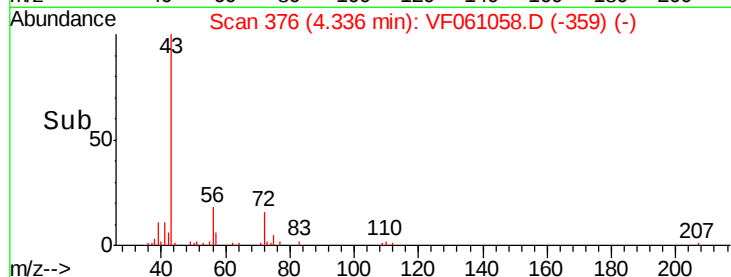
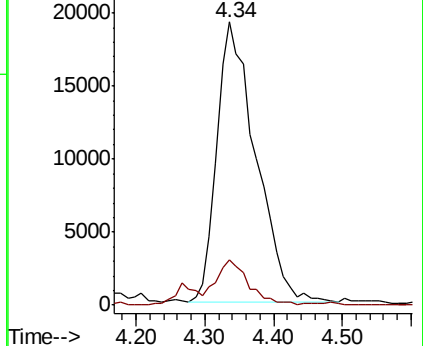
MMDadoda

12/19/2018 2:14:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 23.825 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF061058.D

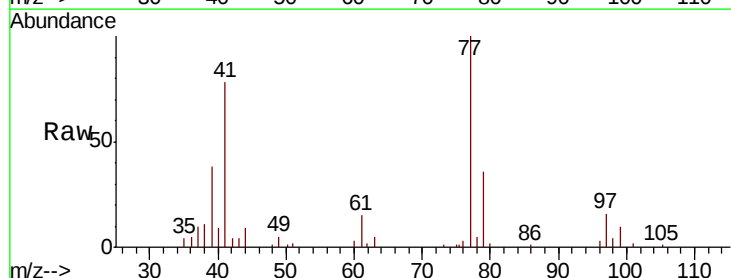
Acq: 18 Dec 2018 13:02

Tgt Ion: 77 Resp: 41921

Ion Ratio Lower Upper

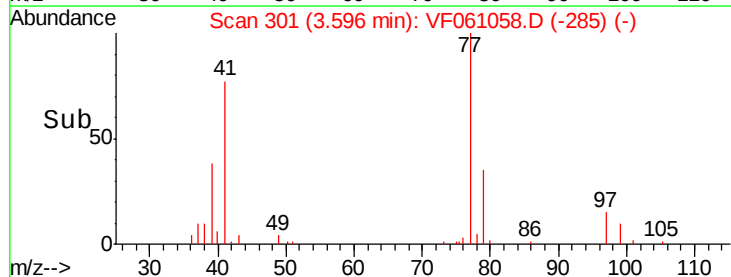
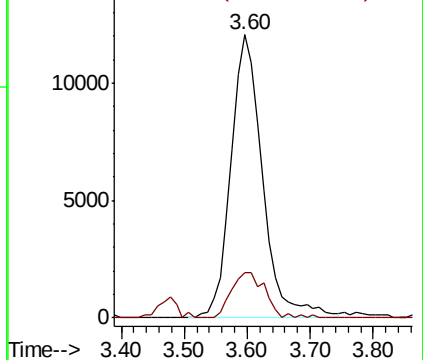
77 100

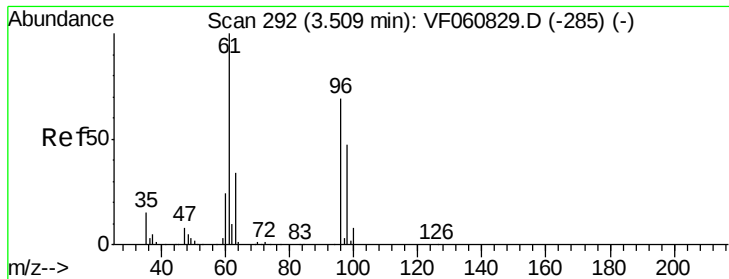
97 16.0 8.6 25.8



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

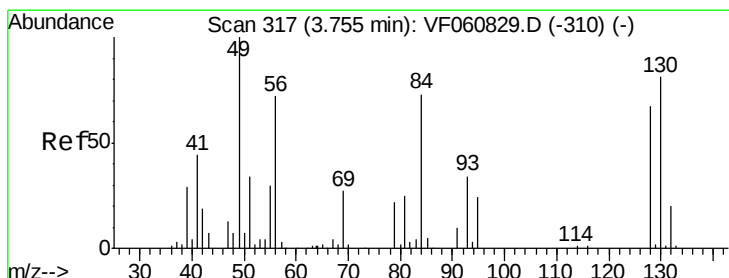
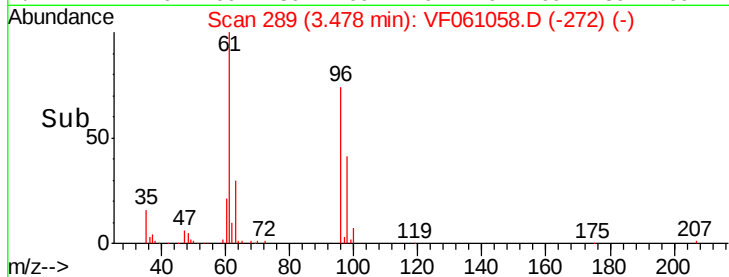
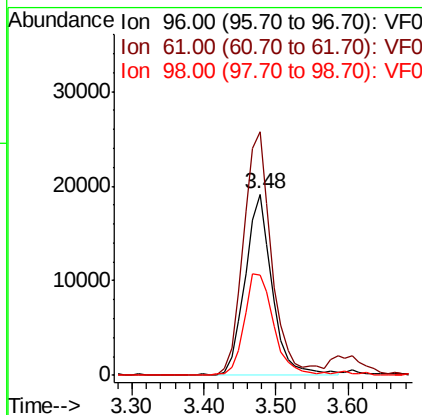
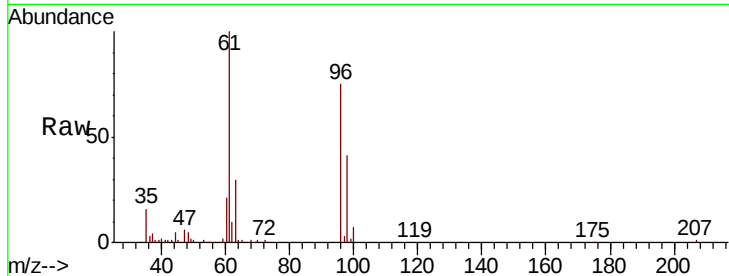
cis-1,2-Dichloroethene  
Concen: 23.877 ug/l  
RT: 3.48 min Scan# 289  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   | 50388 |       |       |
| 61      | 134.2 |       | 0.0   | 290.6 |
| 98      | 55.3  |       | 0.0   | 137.8 |

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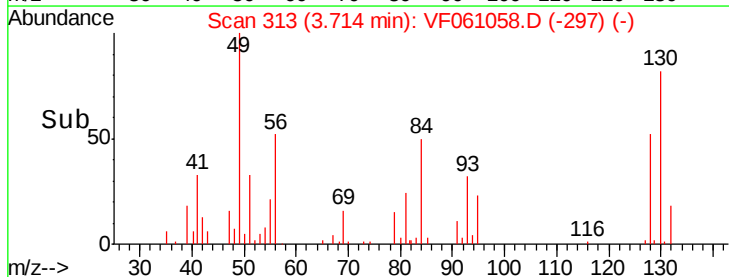
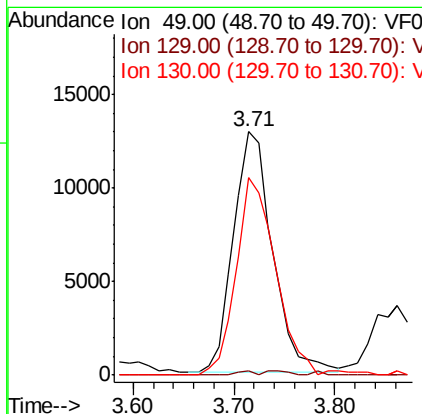
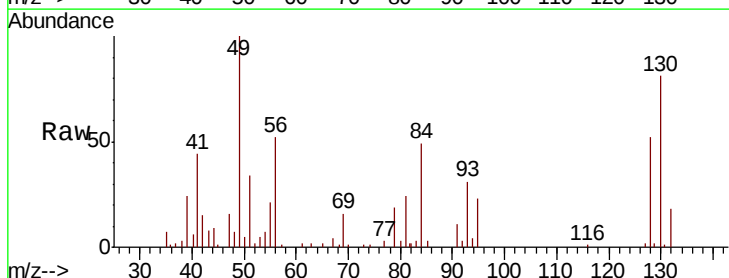
MMDadoda  
12/19/2018 2:14:54 PM

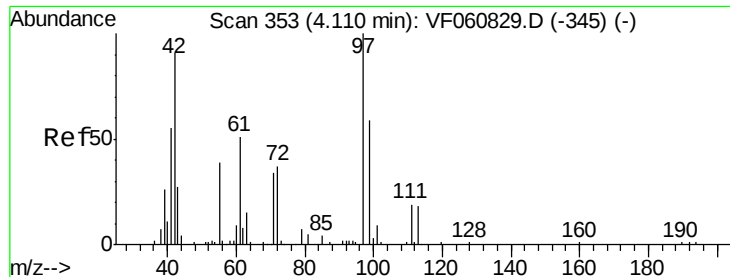


#28

Bromochloromethane  
Concen: 26.810 ug/l  
RT: 3.71 min Scan# 313  
Delta R.T. -0.04 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 49      | 100   | 34920 |       |       |
| 129     | 1.7   |       | 0.0   | 4.4   |
| 130     | 81.1  |       | 64.2  | 96.4  |





#29

Tetrahydrofuran

Concen: 121.888 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

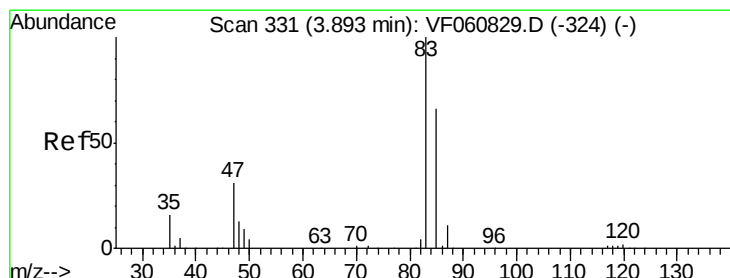
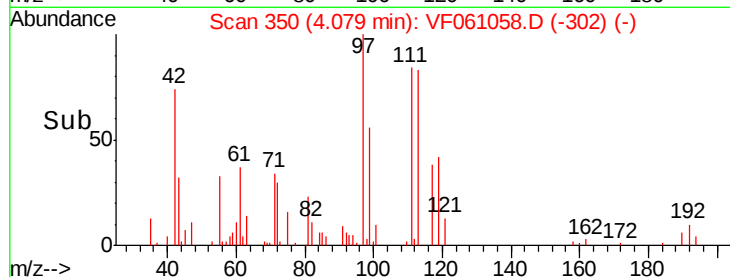
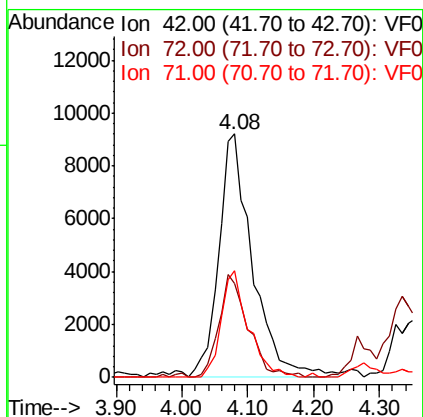
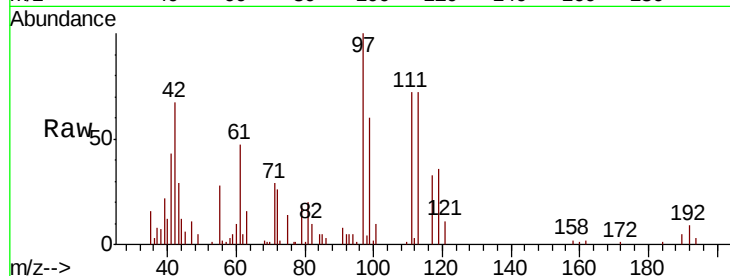
ClientSampleId :

VF1218SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 32965 |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 36.5  | 31.9  | 47.9  |
| 71       | 35.5  | 28.7  | 43.1  |

Manual Integrations  
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#30

Chloroform

Concen: 23.557 ug/l

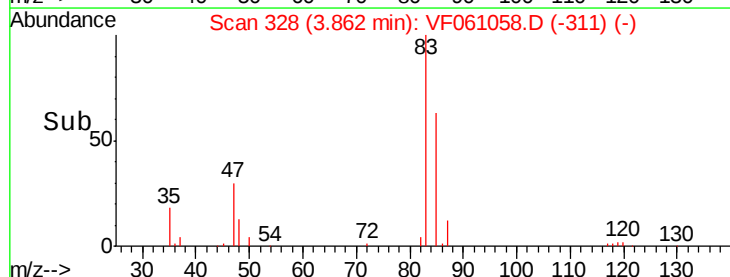
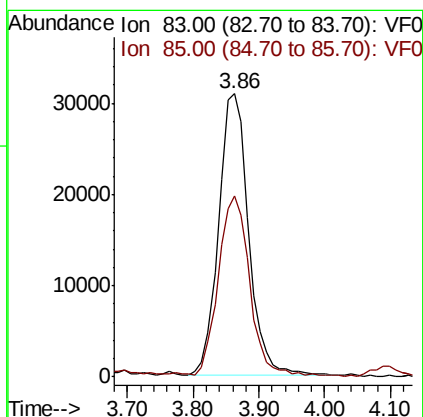
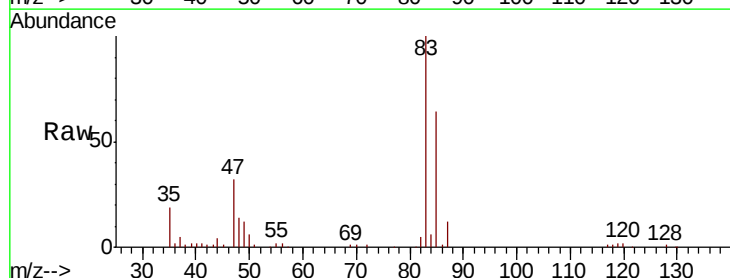
RT: 3.86 min Scan# 328

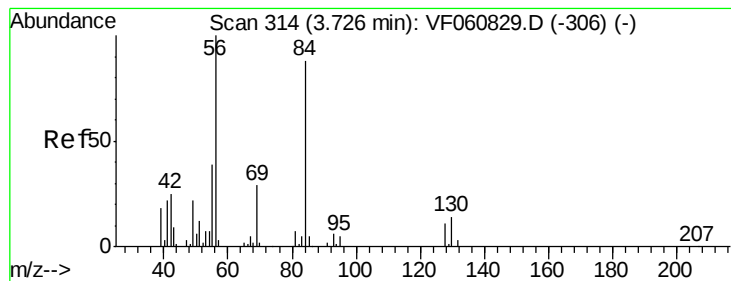
Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 98398 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.1  | 53.4  | 80.2  |





#31

Cyclohexane

Concen: 24.171 ug/l m

RT: 3.68 min Scan# 310

Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

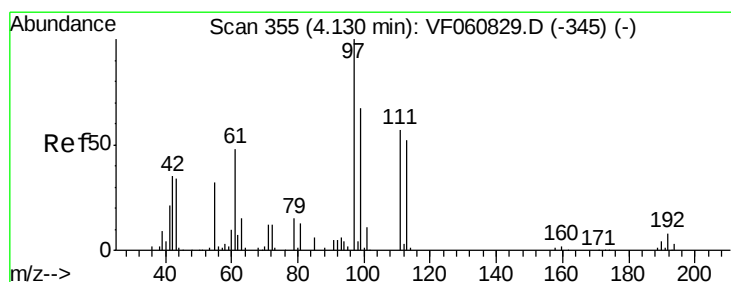
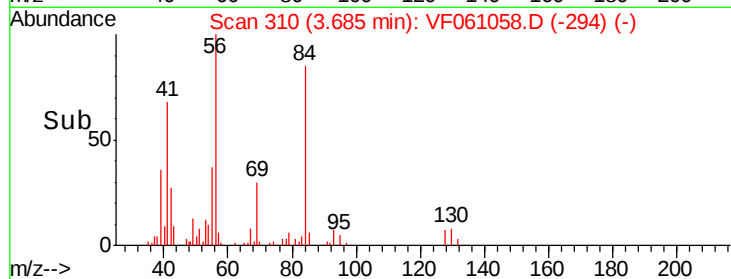
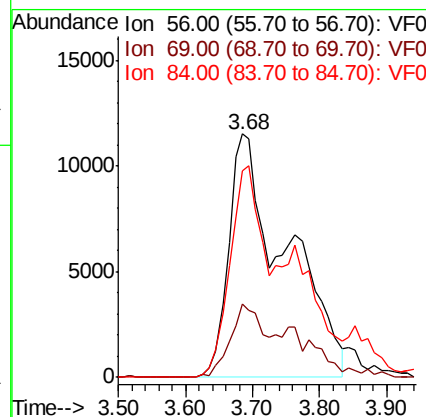
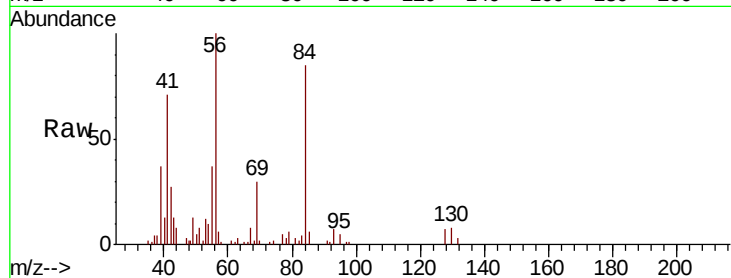
ClientSampleId :

VF1218SBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 56    | Resp: | 68082 |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 30.0  | 23.0  | 34.4  |
| 84        | 84.8  | 70.4  | 105.6 |

Manual Integrations  
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12/19/2018 2:14:54 PM



#32

1,1,1-Trichloroethane

Concen: 20.828 ug/l

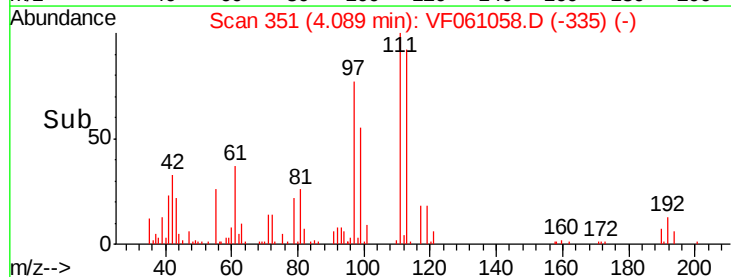
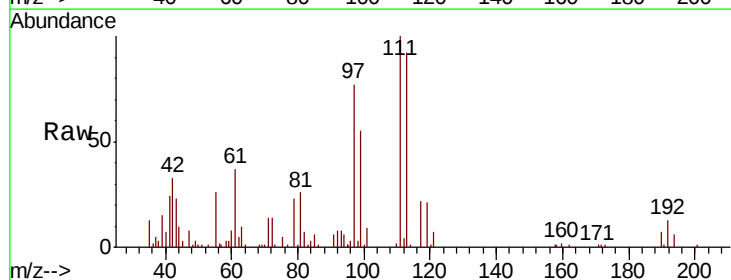
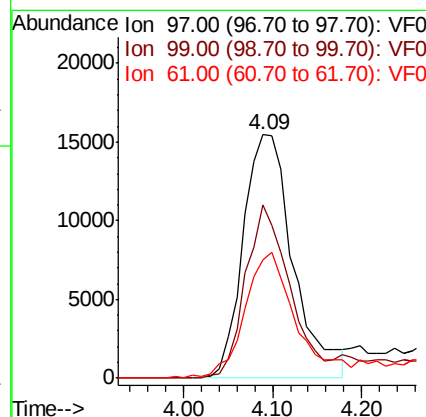
RT: 4.09 min Scan# 351

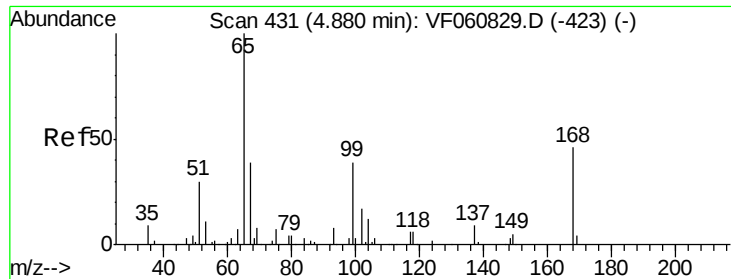
Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 97    | Resp: | 60335 |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 71.3  | 53.5  | 80.3  |
| 61        | 48.8  | 38.6  | 58.0  |





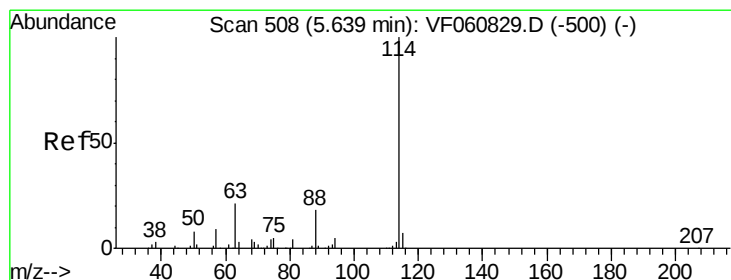
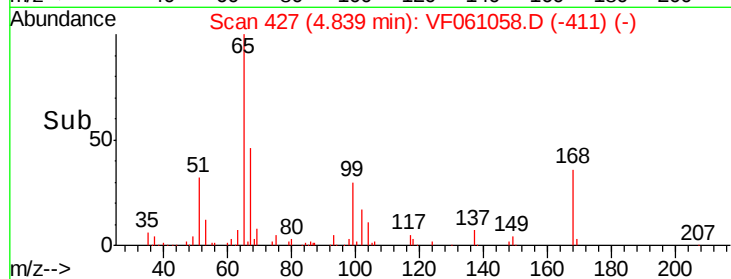
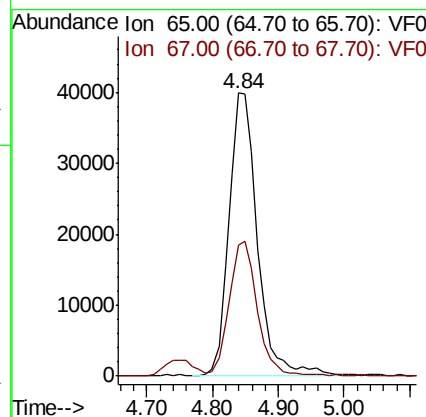
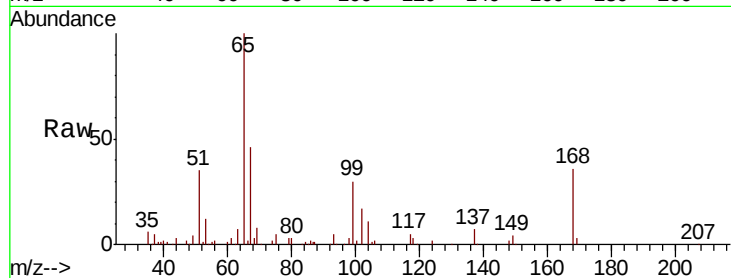
#33  
 1,2-Dichloroethane-d4  
 Concen: 60.777 ug/l  
 RT: 4.84 min Scan# 427  
 Delta R.T. -0.04 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 121577 |       |       |
| 67      | 46.2  | 0.0    | 96.4  |       |

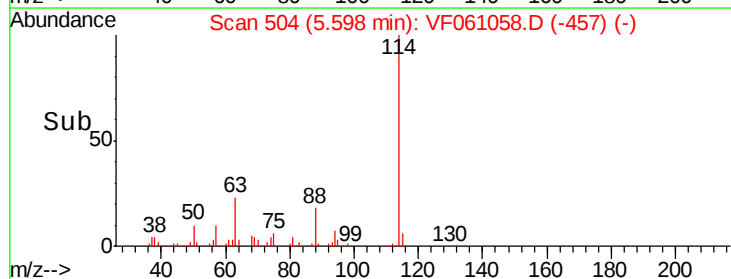
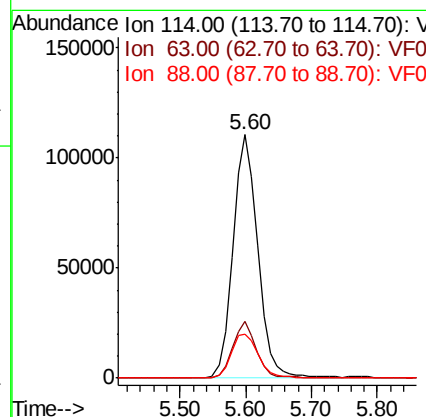
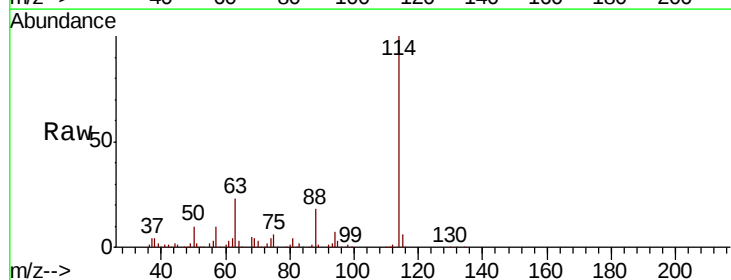
Manual Integrations  
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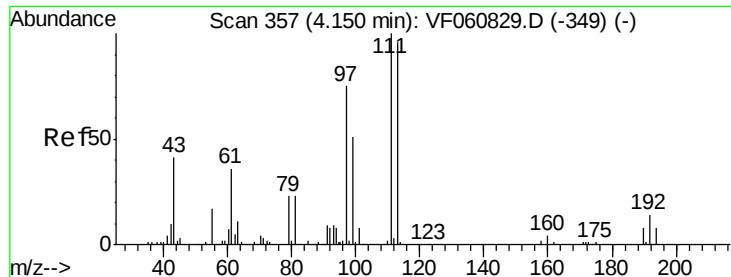
MMDadoda  
 12/19/2018 2:14:54 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.60 min Scan# 504  
 Delta R.T. -0.04 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 293093 |       |       |
| 63      | 23.3  | 0.0    | 41.6  |       |
| 88      | 18.3  | 0.0    | 36.6  |       |





#35

Dibromofluoromethane

Concen: 54.145 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

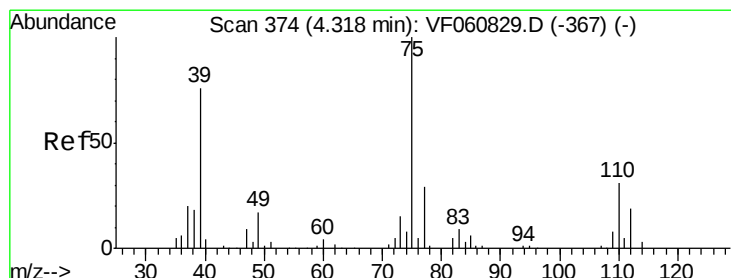
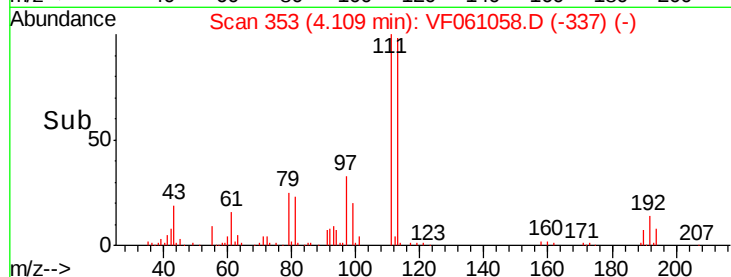
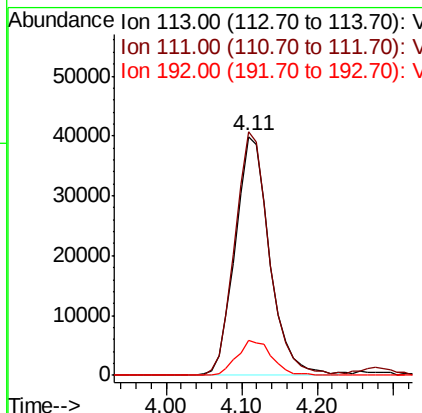
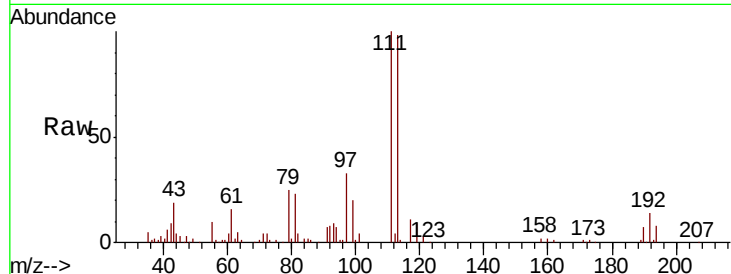
ClientSampleId :

VF1218SBS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 125898 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.9 | 83.0  | 124.6  |
| 192       | 14.5  | 12.3  | 18.5   |

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12/19/2018 2:14:54 PM



#36

1,1-Dichloropropene

Concen: 22.293 ug/l

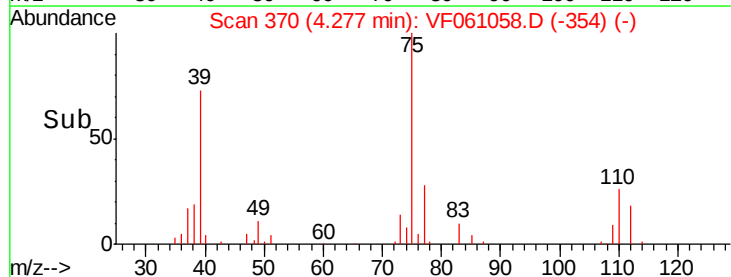
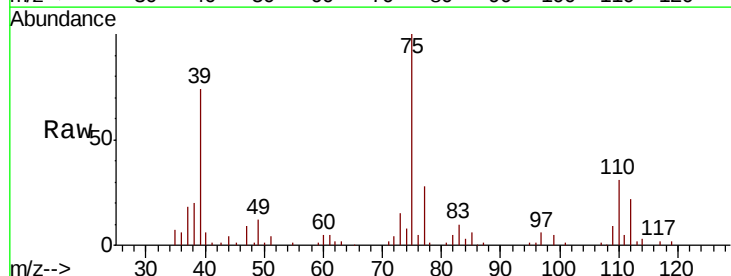
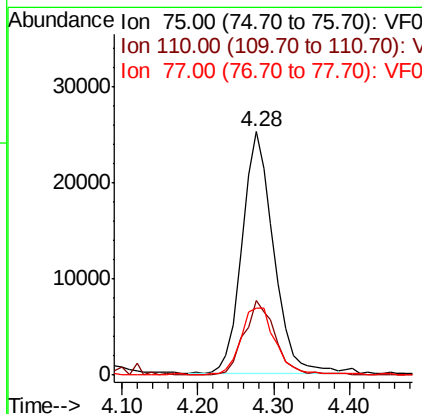
RT: 4.28 min Scan# 370

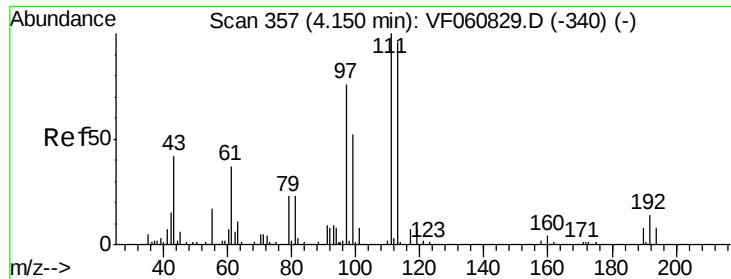
Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 72473 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 30.5  | 15.6  | 46.8  |
| 77        | 27.7  | 23.4  | 35.0  |





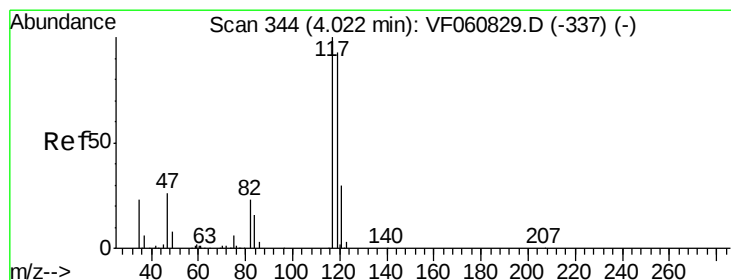
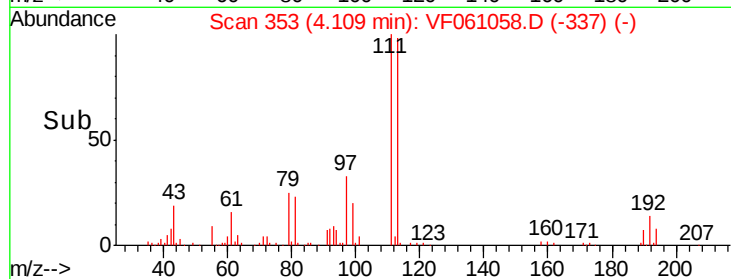
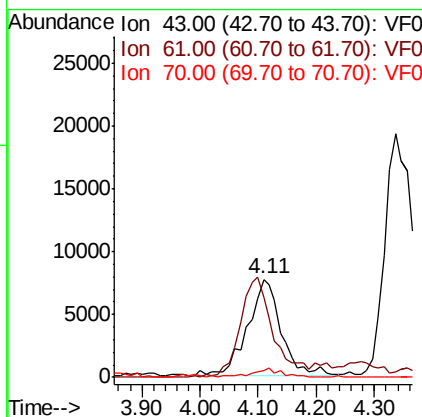
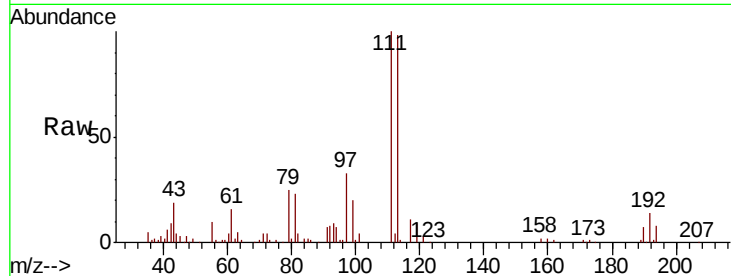
#37  
Ethyl Acetate  
Concen: 23.905 ug/l  
RT: 4.11 min Scan# 353  
Delta R.T. -0.04 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 81.4  | 68.6  | 103.0 |
| 70      | 7.6   | 9.0   | 13.4  |

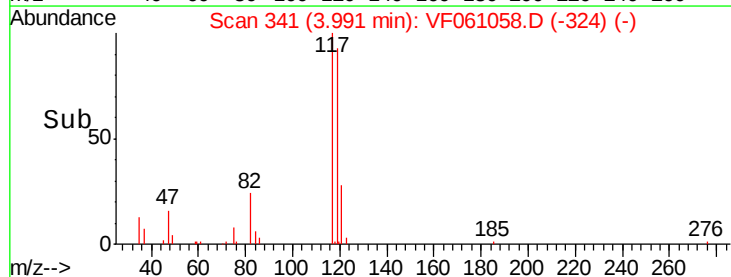
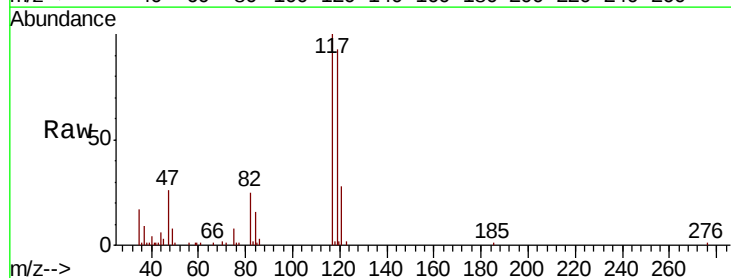
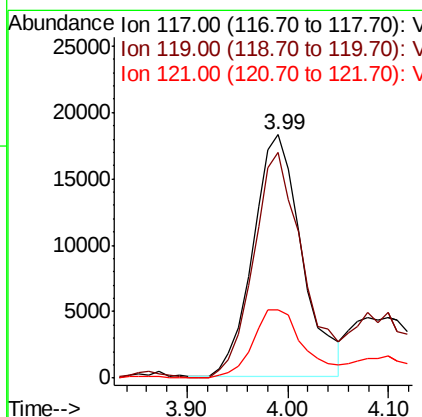
Manual Integrations  
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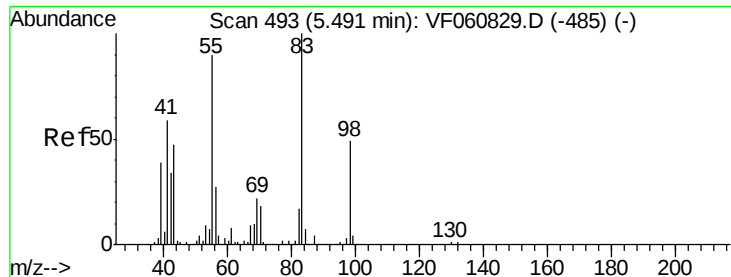
MMDadoda  
12/19/2018 2:14:54 PM



#38  
Carbon Tetrachloride  
Concen: 21.452 ug/l  
RT: 3.99 min Scan# 341  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 92.7  | 74.4  | 111.6 |
| 121     | 27.9  | 23.5  | 35.3  |





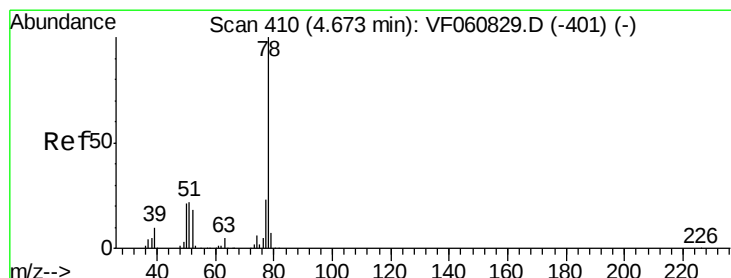
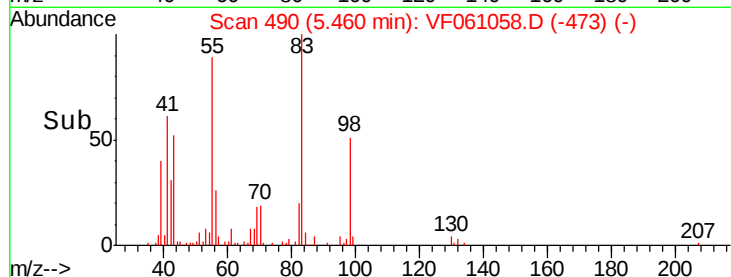
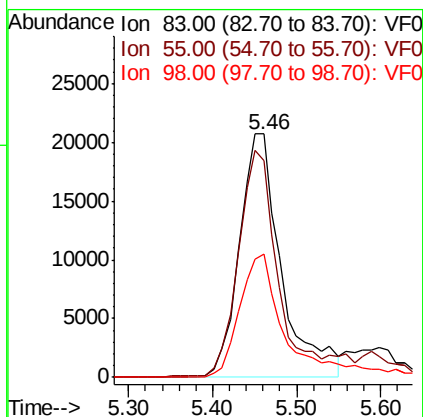
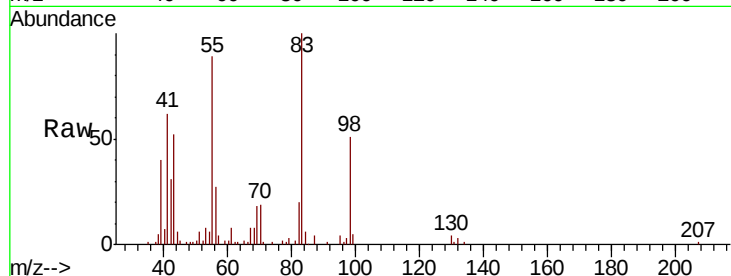
#39  
Methvlcvclohexane  
Concen: 21.245 ug/l  
RT: 5.46 min Scan# 490  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 88.8  | 72.1  | 108.1 |
| 98      | 50.5  | 39.1  | 58.7  |

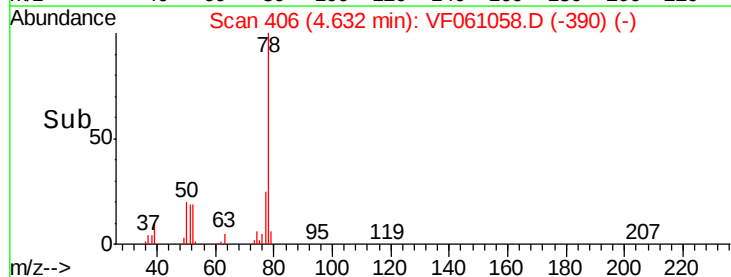
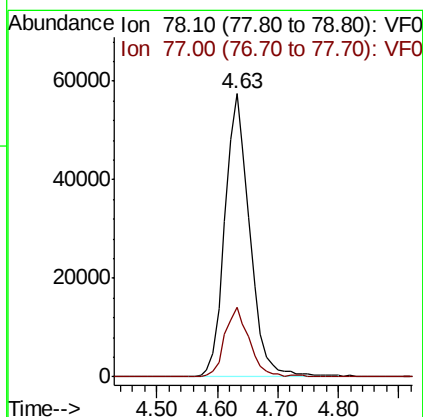
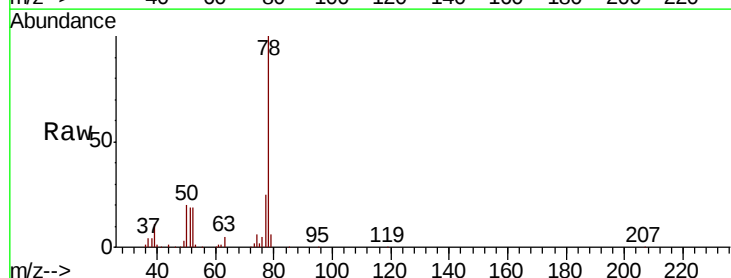
Manual Integrations  
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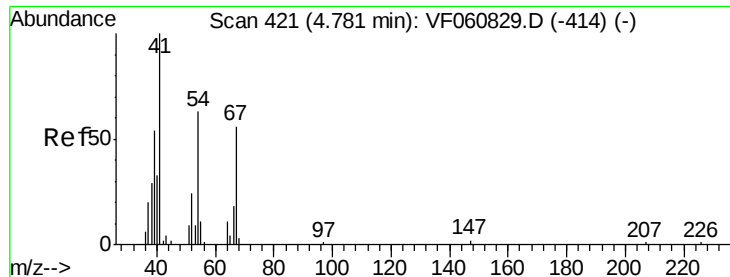
MMDadoda  
12/19/2018 2:14:54 PM



#40  
Benzene  
Concen: 22.840 ug/l  
RT: 4.63 min Scan# 406  
Delta R.T. -0.04 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.7  | 18.7  | 28.1  |





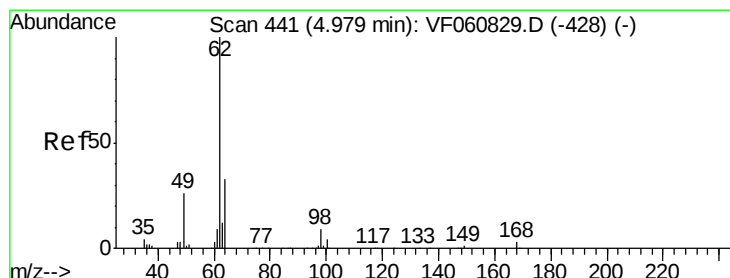
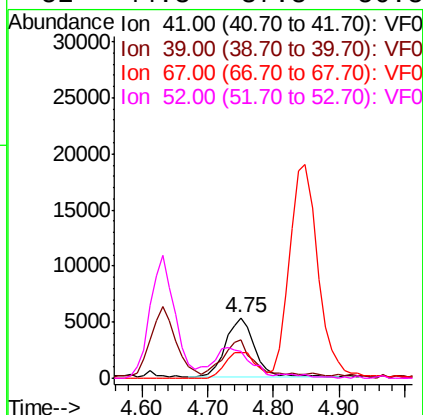
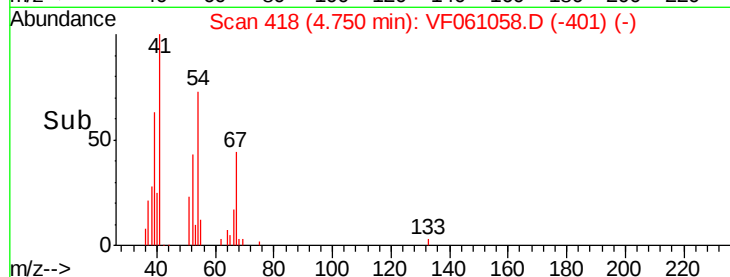
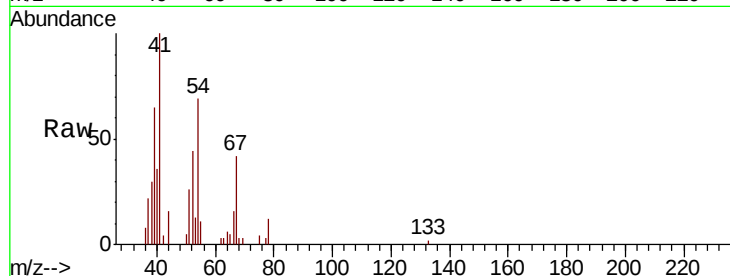
#41  
Methacrylonitrile  
Concen: 21.135 ug/l  
RT: 4.75 min Scan# 418  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 64.6  | 53.0  | 79.6  |
| 67      | 41.6  | 43.8  | 65.6# |
| 52      | 44.3  | 37.8  | 56.8  |

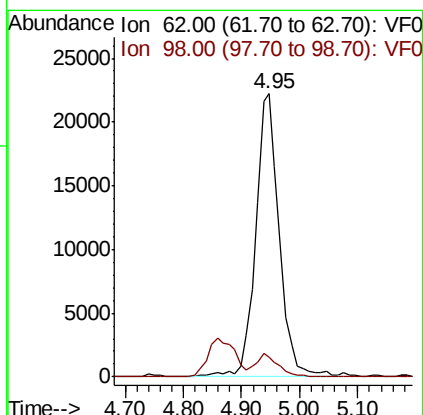
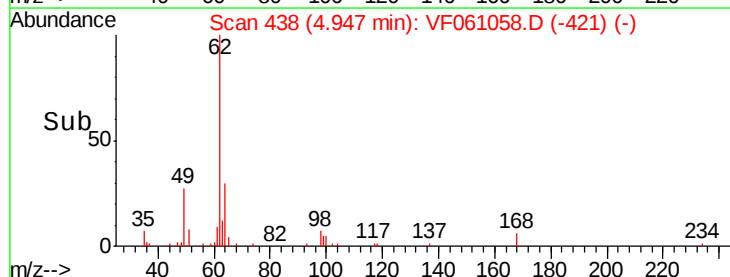
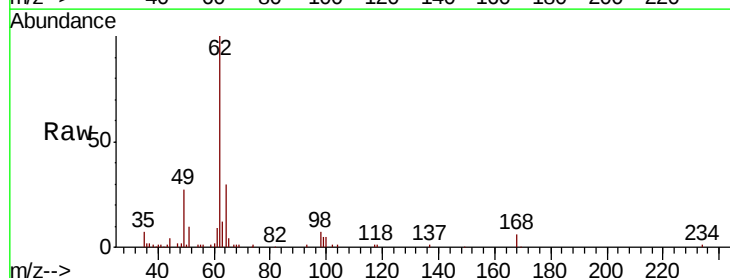
Manual Integrations  
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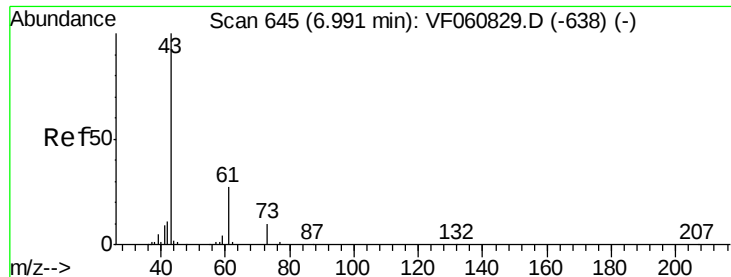
MMDadoda  
12/19/2018 2:14:54 PM



#42  
1,2-Dichloroethane  
Concen: 24.258 ug/l  
RT: 4.95 min Scan# 438  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 7.1   | 0.0   | 17.2  |





#43

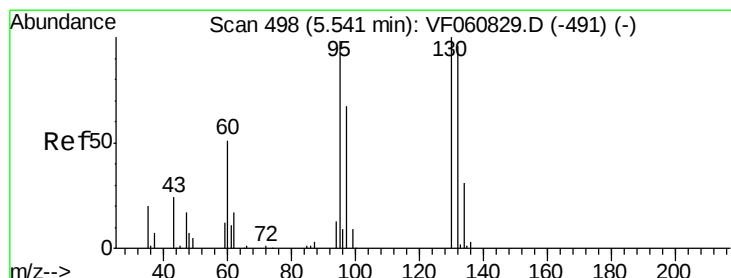
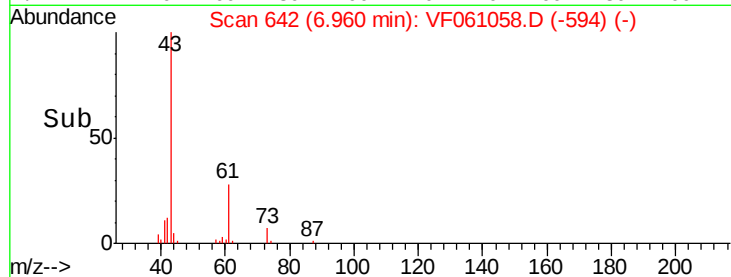
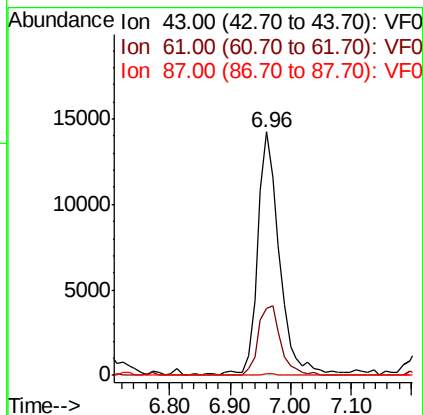
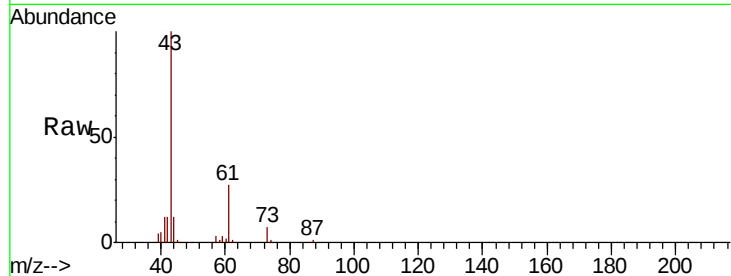
Isopropyl Acetate  
 Concen: 20.206 ug/l  
 RT: 6.96 min Scan# 642  
 Delta R.T. -0.03 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 27.4  | 21.4  | 32.0  |
| 87      | 0.9   | 0.2   | 0.4   |

Manual Integrations  
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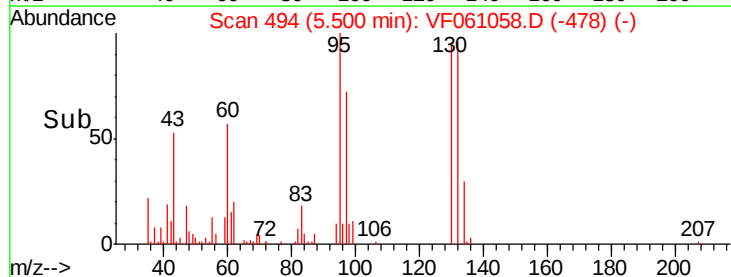
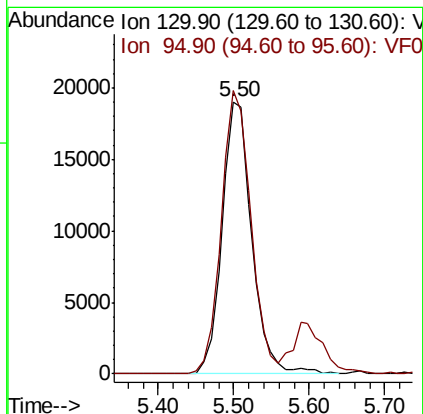
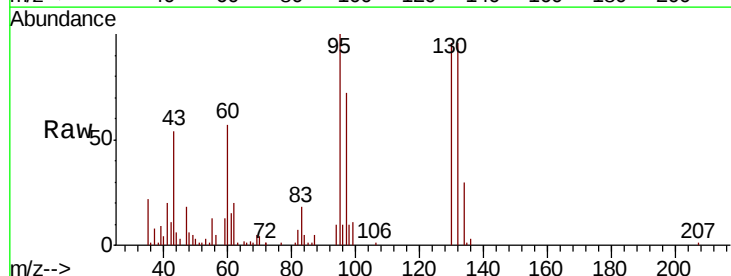
MMDadoda  
 12/19/2018 2:14:54 PM

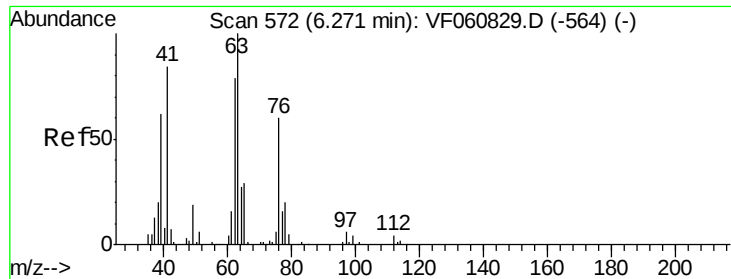


#44

Trichloroethene  
 Concen: 21.979 ug/l  
 RT: 5.50 min Scan# 494  
 Delta R.T. -0.04 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 104.0 | 0.0   | 195.6 |





#45

1,2-Dichloropropane

Concen: 23.896 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 63 Resp: 44572

Ion Ratio Lower Upper

63 100

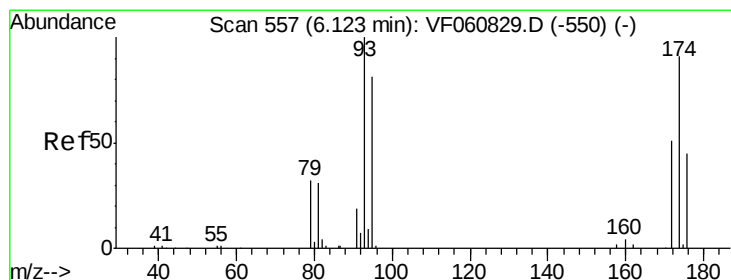
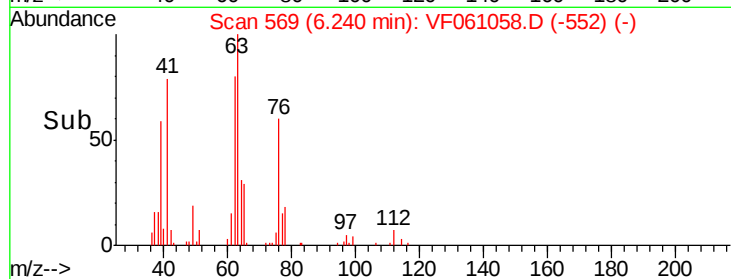
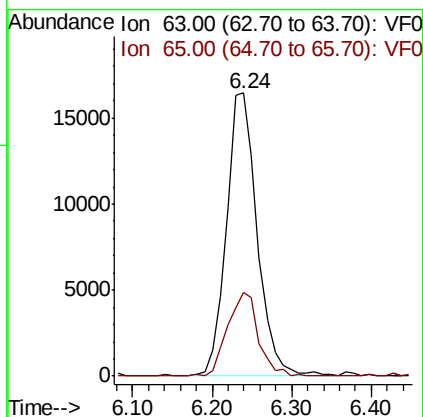
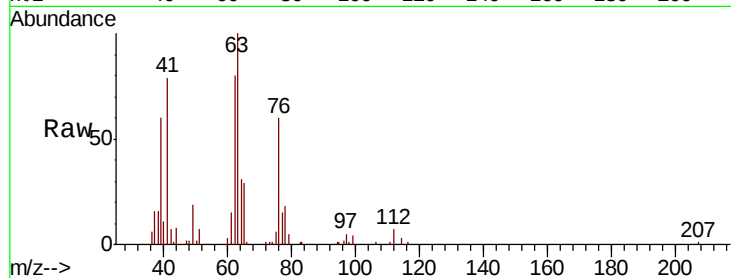
65 29.5 23.2 34.8

Manual Integrations

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#46

Dibromomethane

Concen: 22.321 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

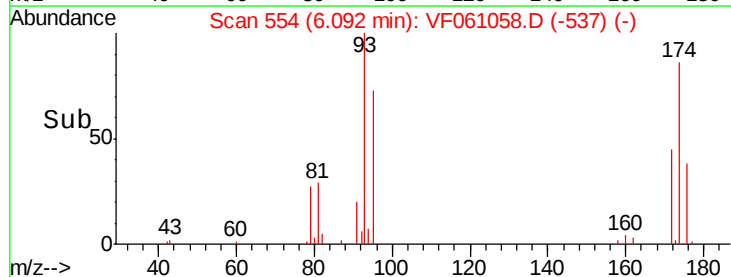
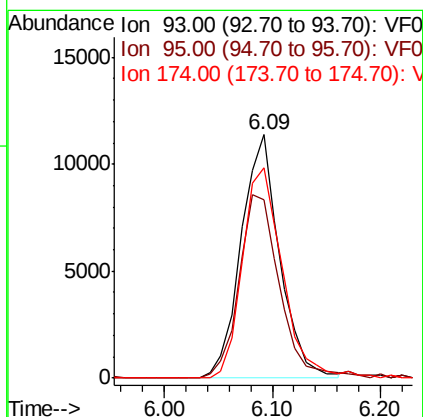
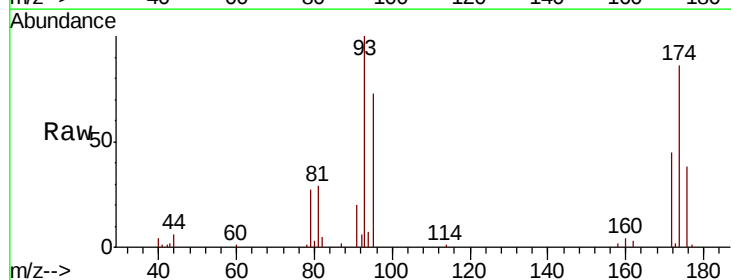
Tgt Ion: 93 Resp: 28243

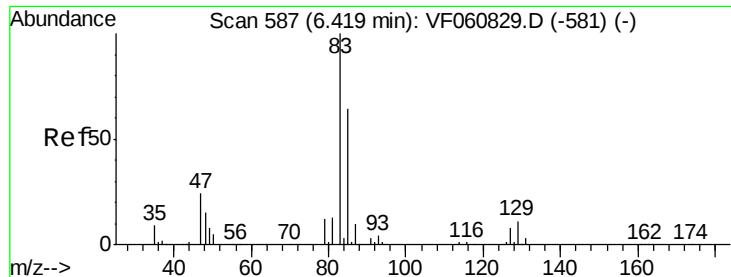
Ion Ratio Lower Upper

93 100

95 73.2 64.7 97.1

174 86.3 73.0 109.6





#47

Bromodichloromethane

Concen: 22.373 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

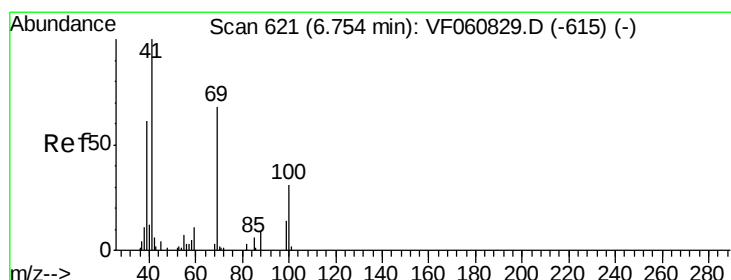
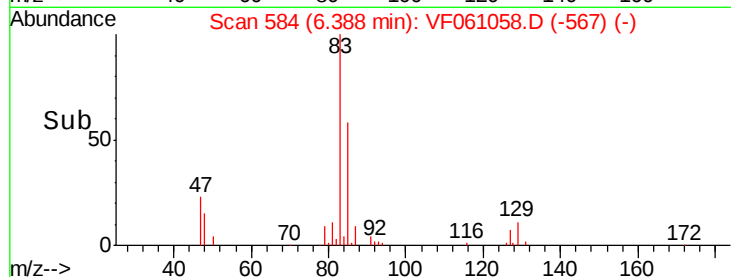
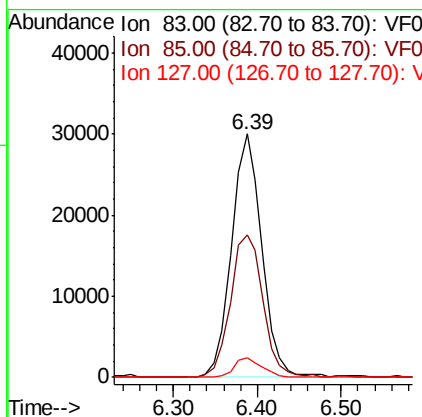
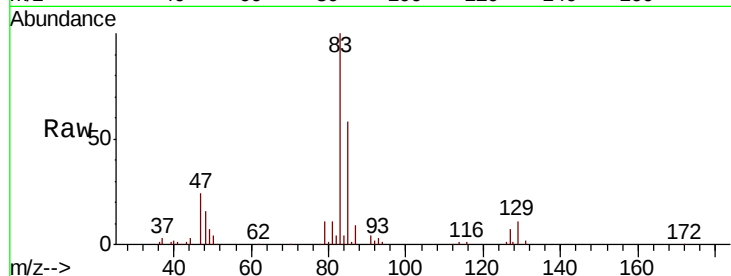
ClientSampleId :

VF1218SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 75188 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 58.3  | 51.1  | 76.7  |
| 127      | 8.3   | 6.8   | 10.2  |

Manual Integrations  
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#48

Methyl methacrylate

Concen: 19.878 ug/l

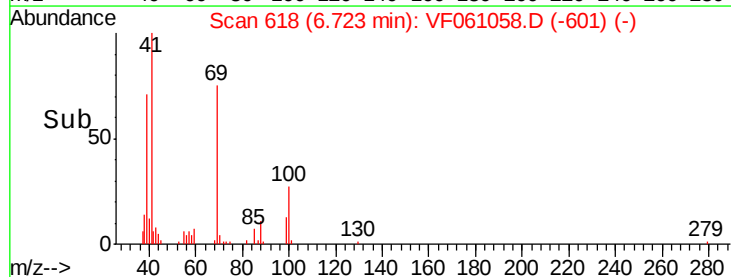
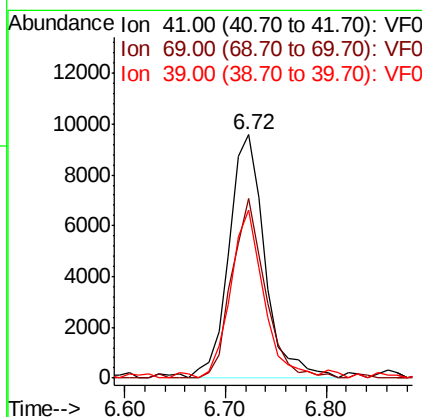
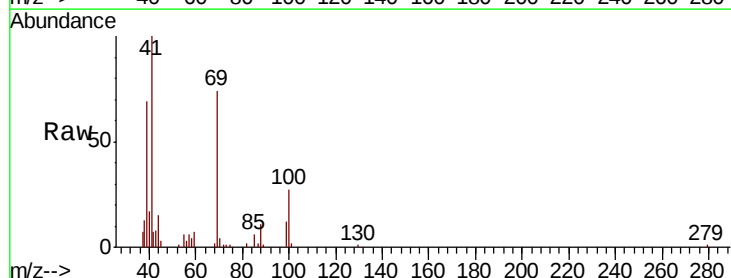
RT: 6.72 min Scan# 618

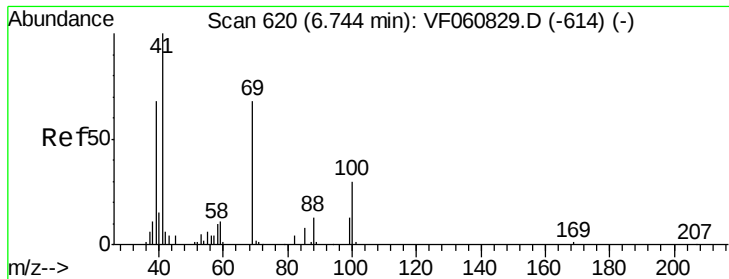
Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 23770 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 73.6  | 53.9  | 80.9  |
| 39       | 69.0  | 49.0  | 73.6  |





#49

1,4-Dioxane

Concen: 466.308 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

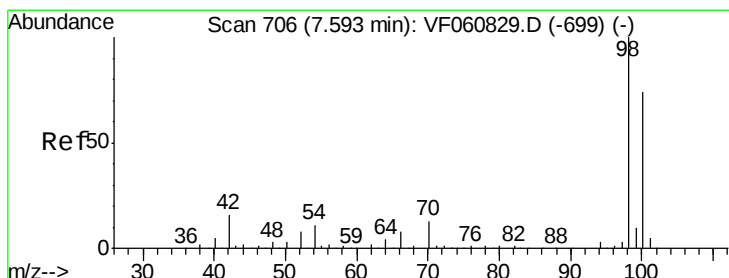
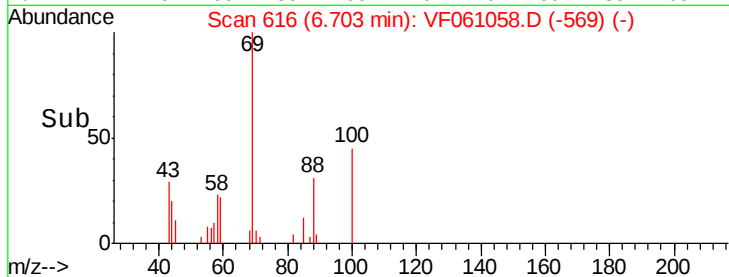
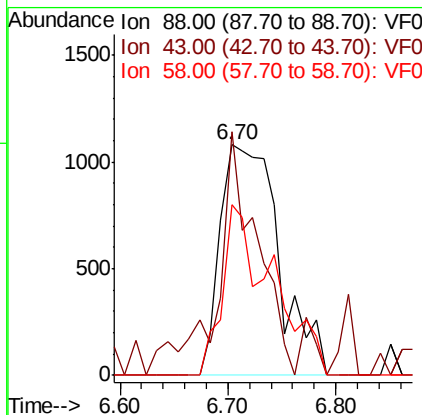
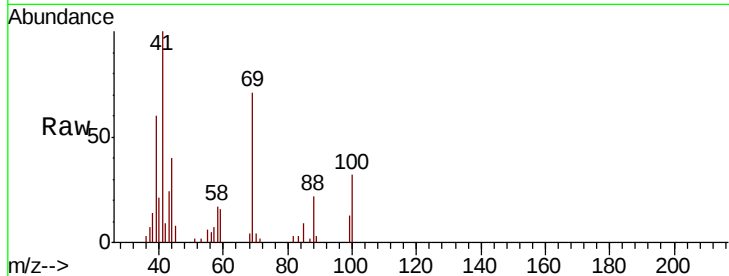
ClientSampleId :

VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 105.6 | 42.0  | 63.0# |
| 58      | 74.3  | 61.8  | 92.8  |

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#50

Toluene-d8

Concen: 49.227 ug/l

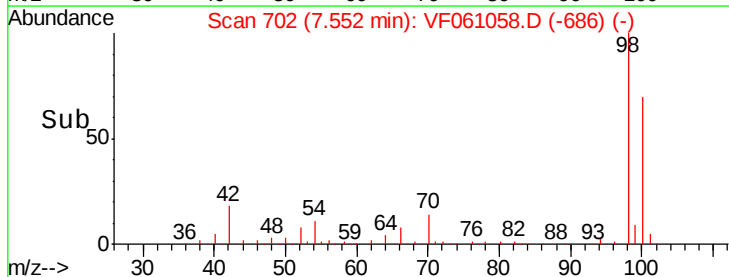
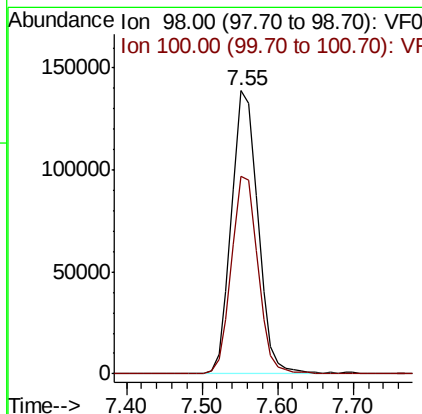
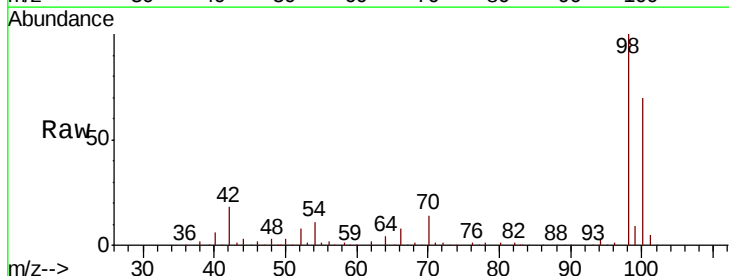
RT: 7.55 min Scan# 702

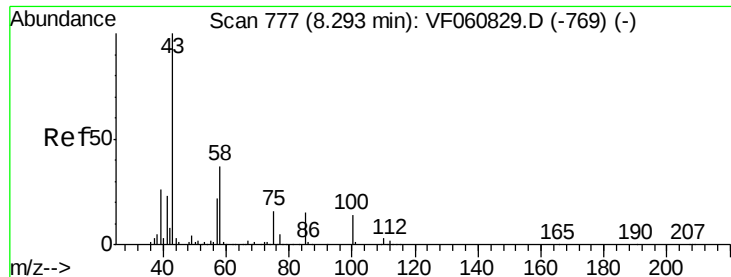
Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 69.7  | 59.3  | 88.9  |





#51

4-Methyl-2-Pentanone

Concen: 110.700 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 43 Resp: 134859

Ion Ratio Lower Upper

43 100

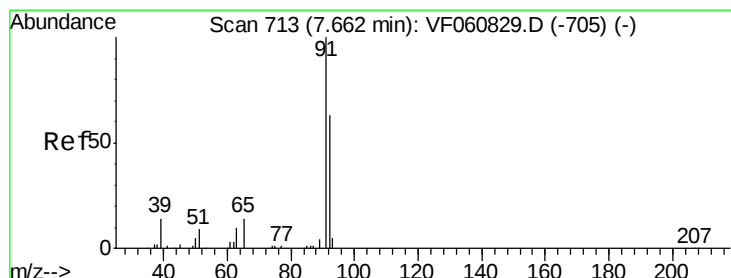
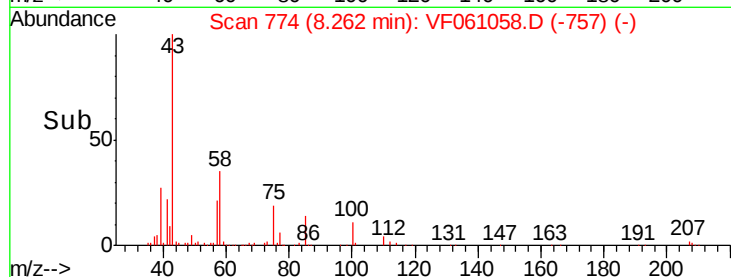
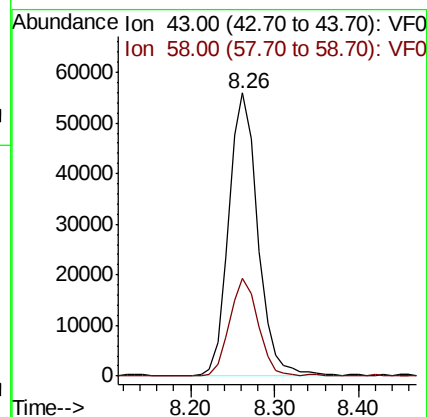
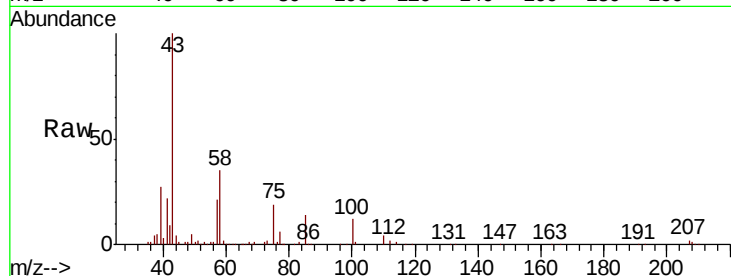
58 34.7 29.7 44.5

Manual Integrations

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#52

Toluene

Concen: 21.814 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF061058.D

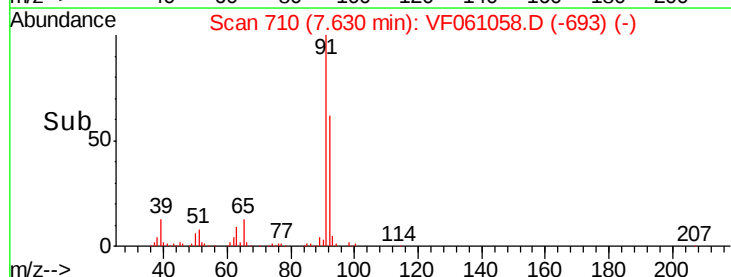
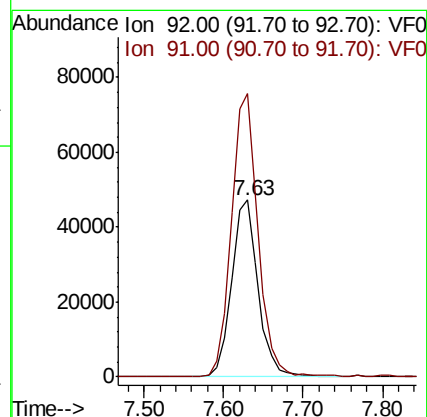
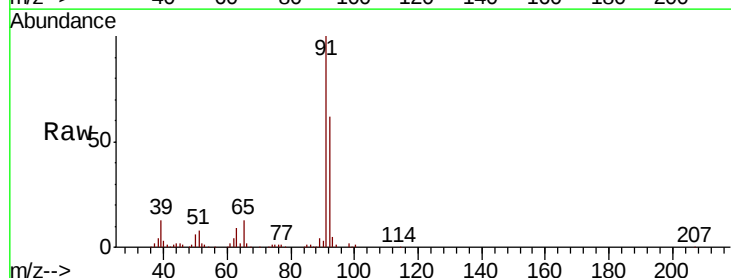
Acq: 18 Dec 2018 13:02

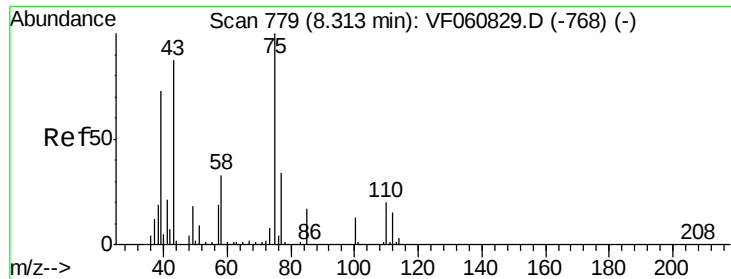
Tgt Ion: 92 Resp: 110044

Ion Ratio Lower Upper

92 100

91 160.4 126.2 189.2





#53

t-1,3-Dichloropropene

Concen: 21.918 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 75 Resp: 59914

Ion Ratio Lower Upper

75 100

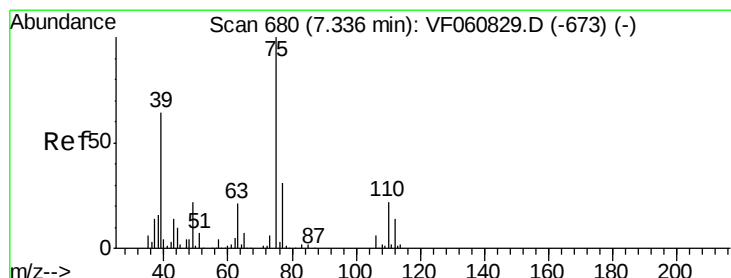
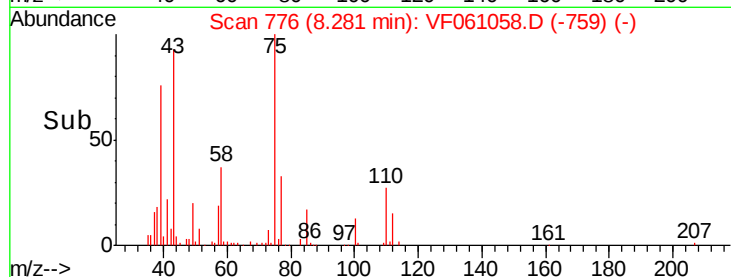
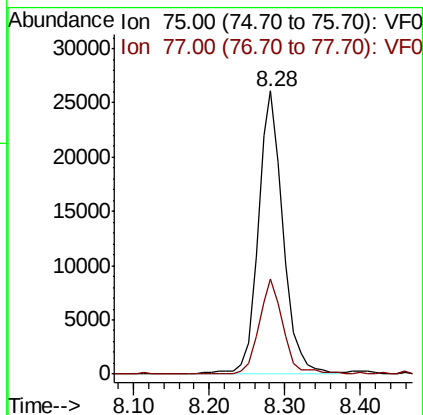
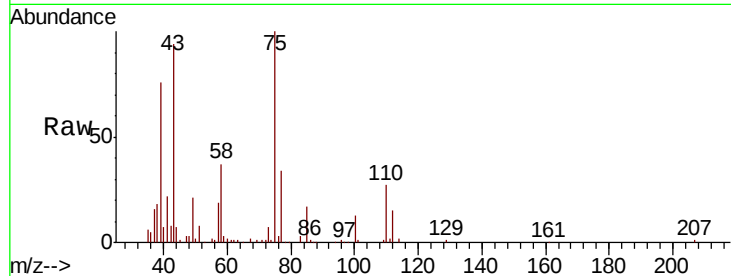
77 33.5 27.4 41.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 21.775 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

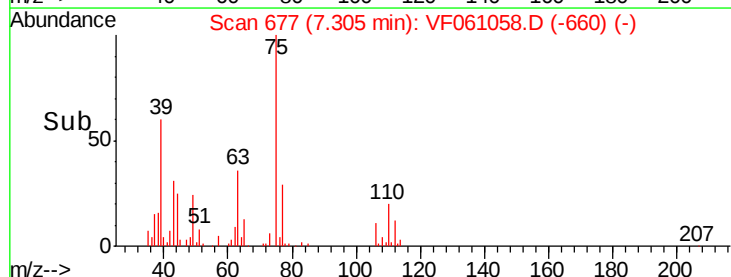
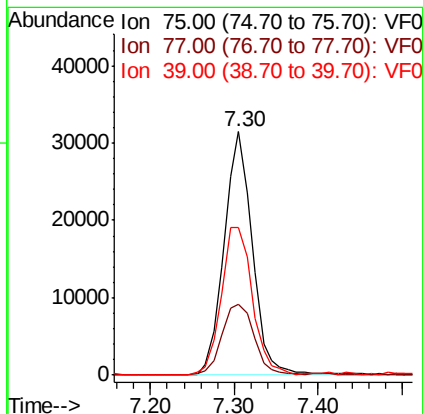
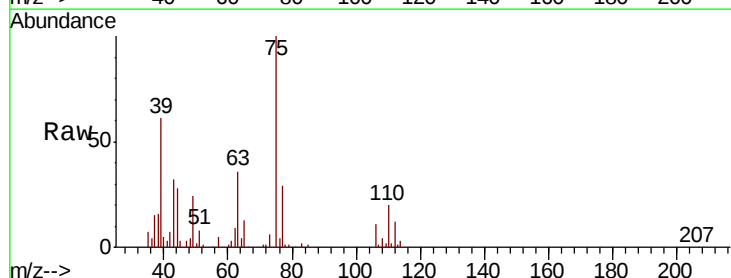
Tgt Ion: 75 Resp: 73690

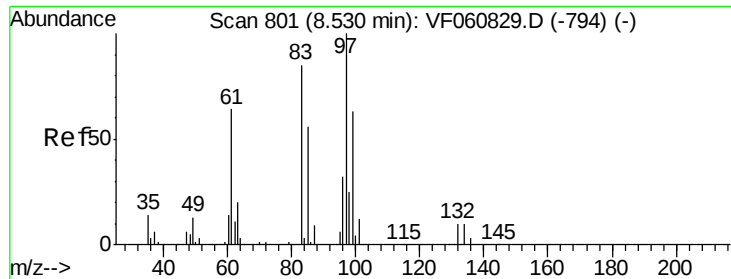
Ion Ratio Lower Upper

75 100

77 28.9 25.0 37.6

39 60.7 51.1 76.7





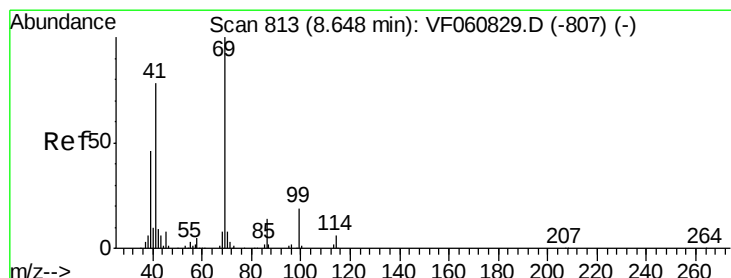
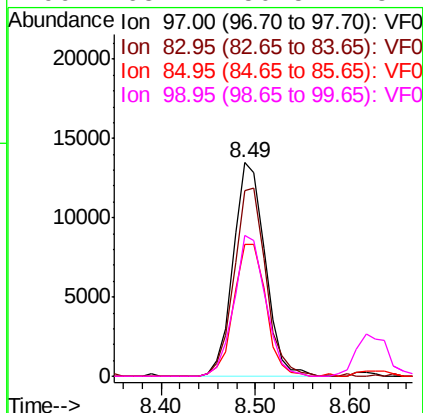
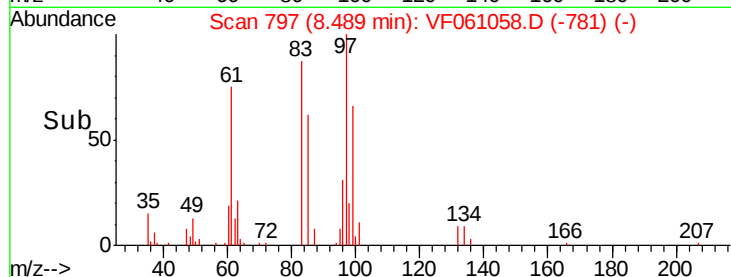
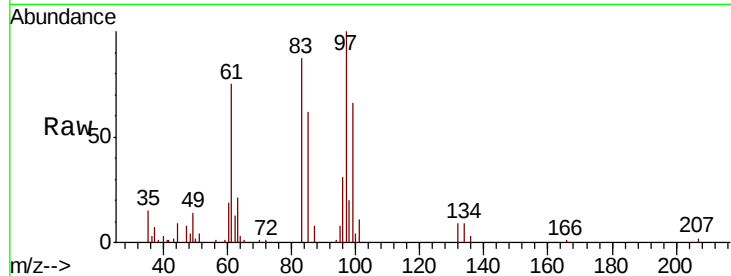
#55  
 1,1,2-Trichloroethane  
 Concen: 21.450 ug/l  
 RT: 8.49 min Scan# 797  
 Delta R.T. -0.04 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 31530 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.9  | 67.8  | 101.6 |
| 85       | 62.0  | 45.0  | 67.6  |
| 99       | 65.7  | 50.5  | 75.7  |

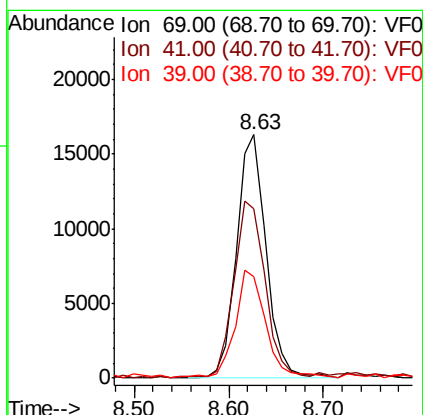
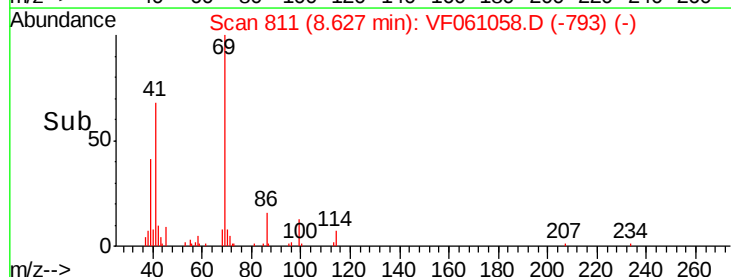
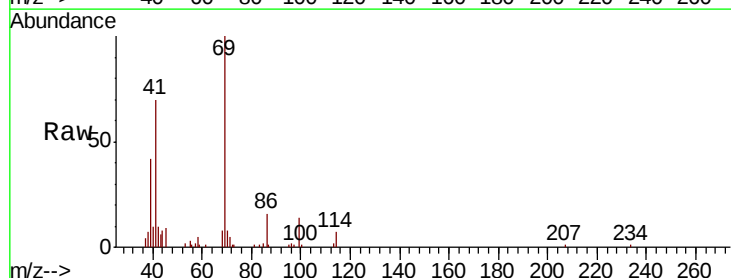
Manual Integrations  
 APPROVED

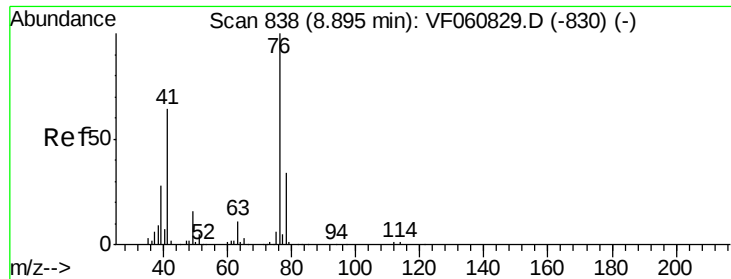
MMDadoda  
 12/19/2018 2:14:54 PM



#56  
 Ethyl methacrylate  
 Concen: 21.585 ug/l  
 RT: 8.63 min Scan# 811  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 35247 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 69.8  | 62.6  | 94.0  |
| 39       | 41.9  | 37.8  | 56.6  |





#57

1,3-Dichloropropane

Concen: 22.120 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.04 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 76 Resp: 56886

Ion Ratio Lower Upper

76 100

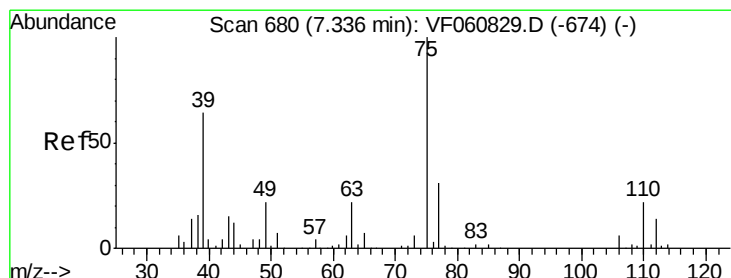
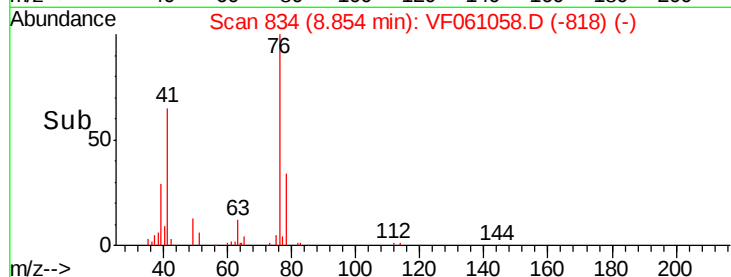
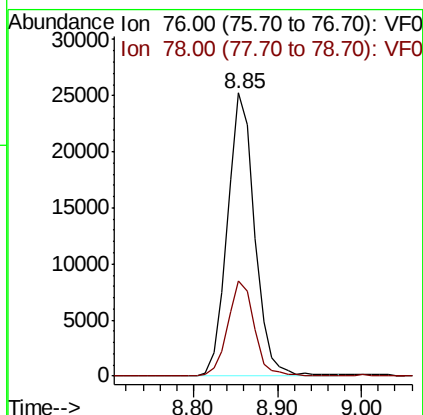
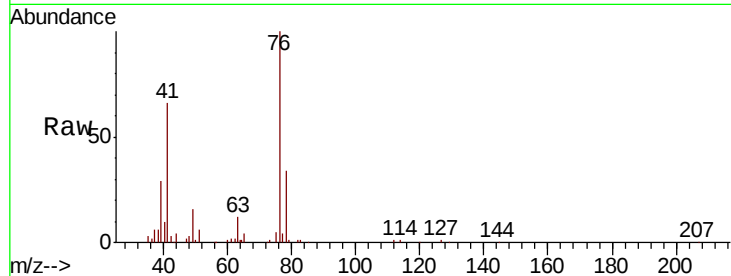
78 33.5 27.0 40.4

Manual Integrations

APPROVED

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#58

2-Chloroethyl Vinyl ether

Concen: 193.139 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF061058.D

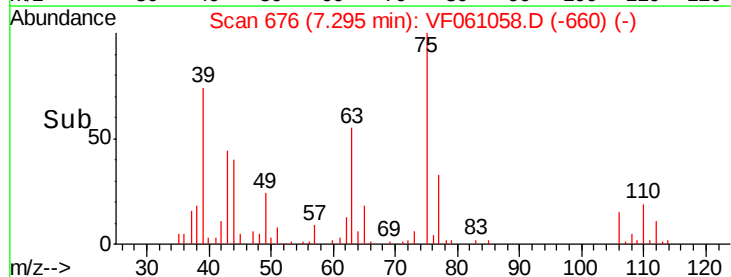
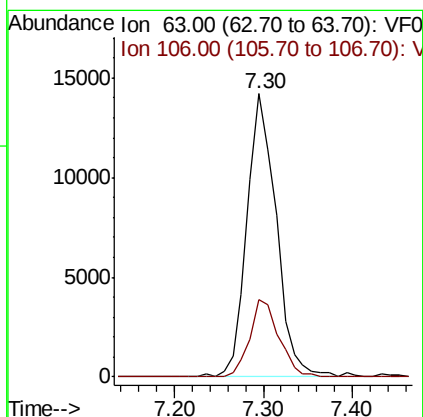
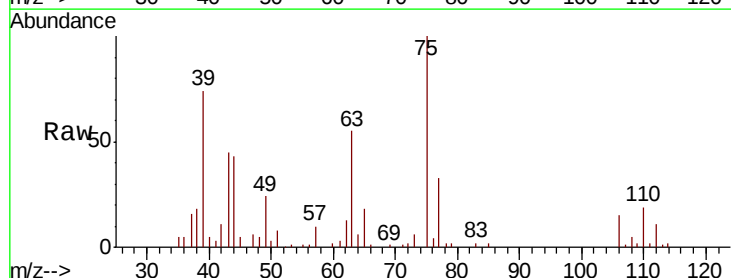
Acq: 18 Dec 2018 13:02

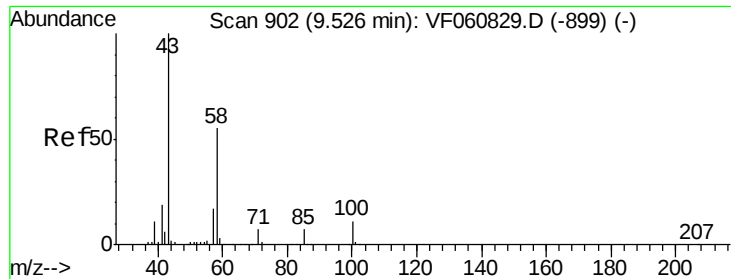
Tgt Ion: 63 Resp: 32259

Ion Ratio Lower Upper

63 100

106 27.3 23.0 34.6





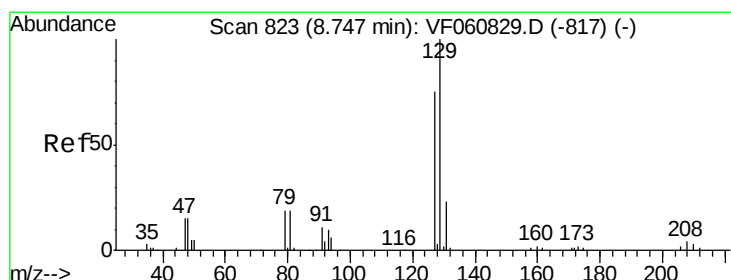
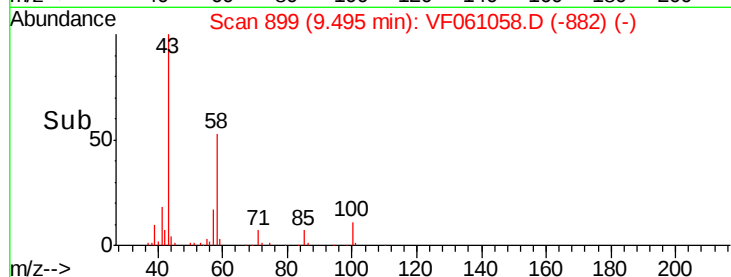
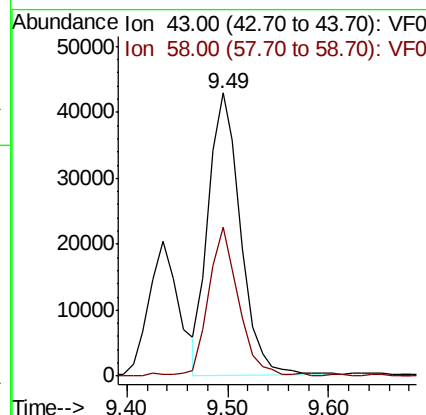
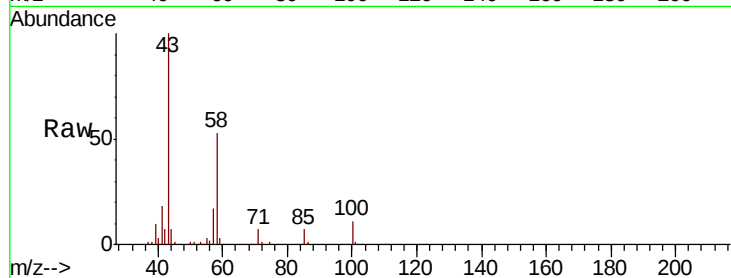
#59  
2-Hexanone  
Concen: 111.430 ug/l  
RT: 9.49 min Scan# 899  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

Tot Ion: 43 Resp: 95236  
Ion Ratio Lower Upper  
43 100  
58 52.5 25.6 76.6

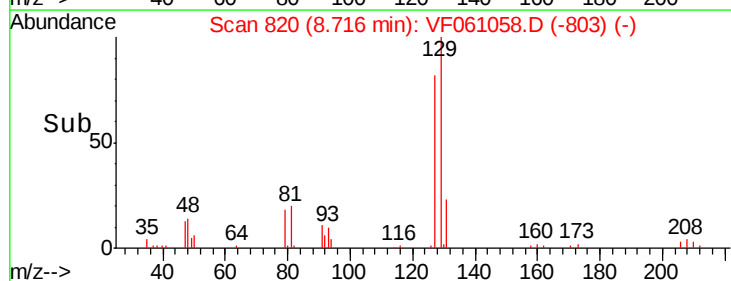
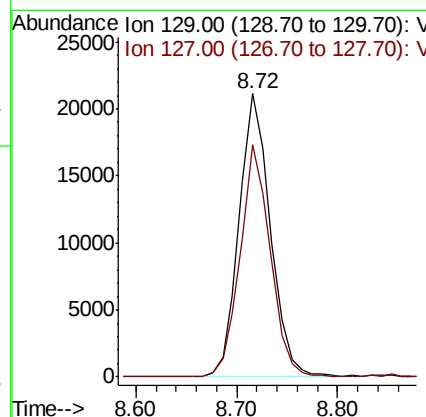
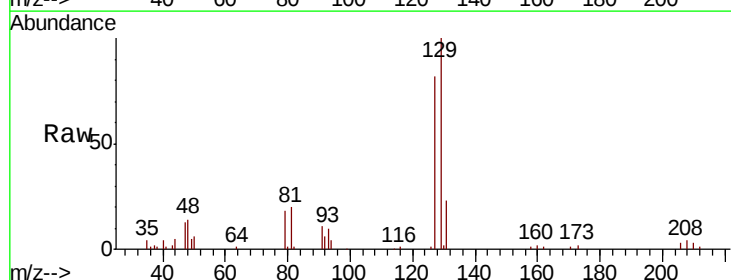
Manual Integrations  
APPROVED

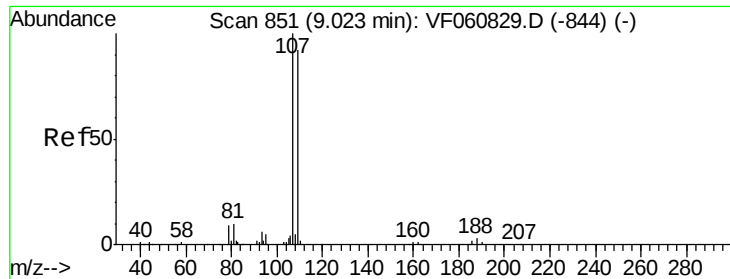
MMDadoda  
12/19/2018 2:14:54 PM



#60  
Dibromochloromethane  
Concen: 20.895 ug/l  
RT: 8.72 min Scan# 820  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Tgt Ion: 129 Resp: 45763  
Ion Ratio Lower Upper  
129 100  
127 81.8 37.3 111.9





#61

1,2-Dibromoethane

Concen: 21.123 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion:107 Resp: 33542

Ion Ratio Lower Upper

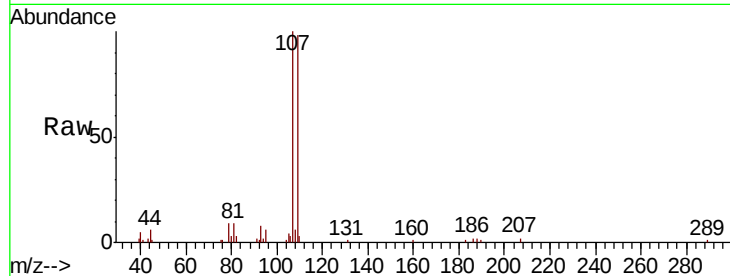
107 100

109 97.9 73.6 110.4

Manual Integrations  
APPROVED

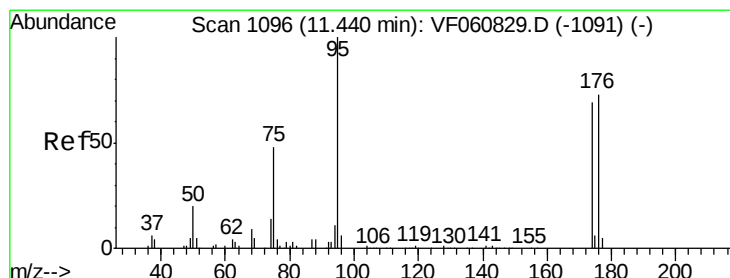
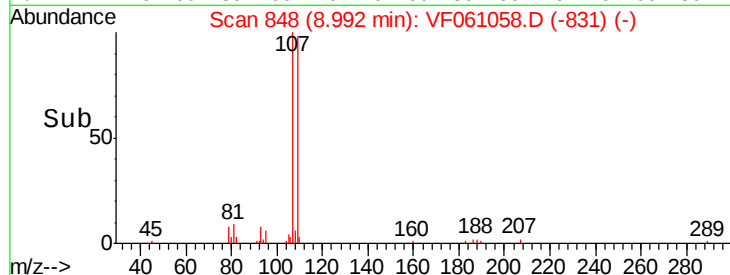
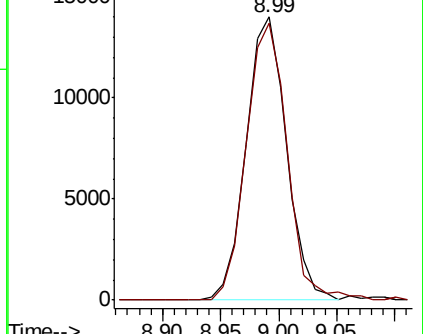
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.691 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

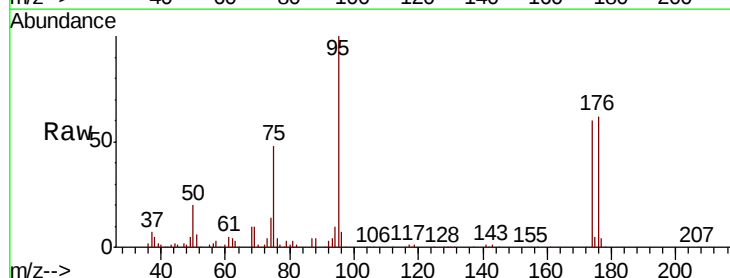
Tgt Ion: 95 Resp: 157797

Ion Ratio Lower Upper

95 100

174 60.2 0.0 138.2

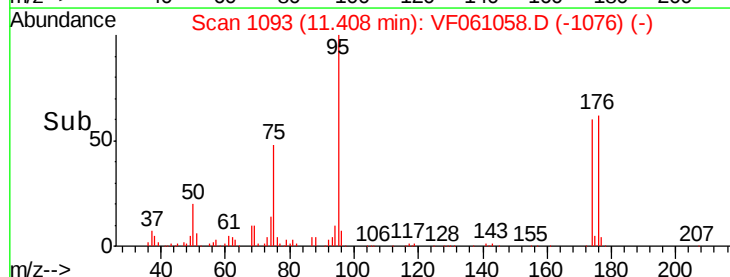
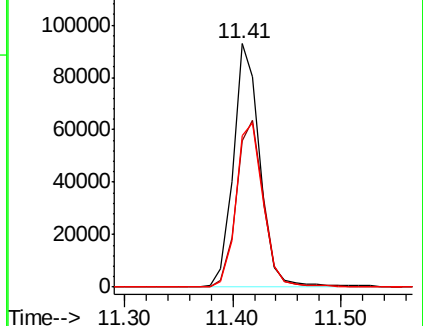
176 62.0 0.0 146.2

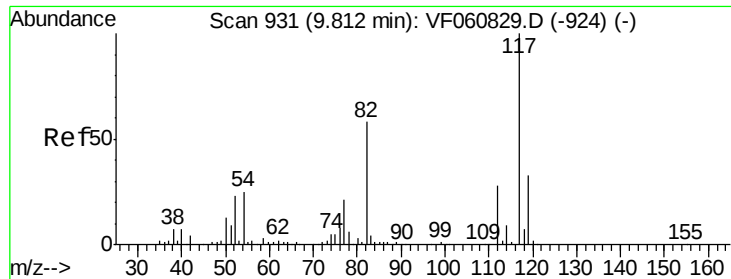


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





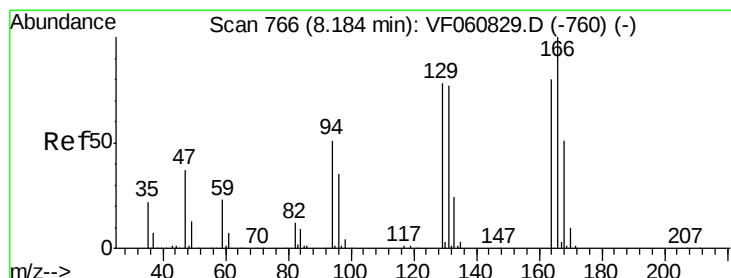
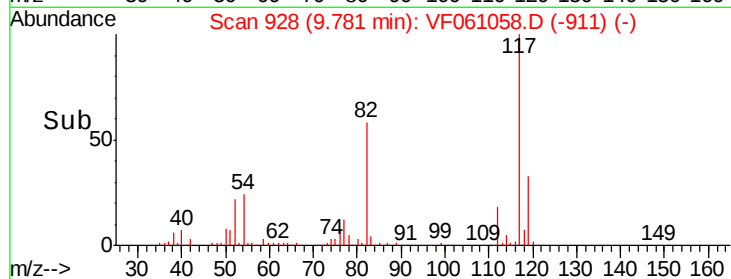
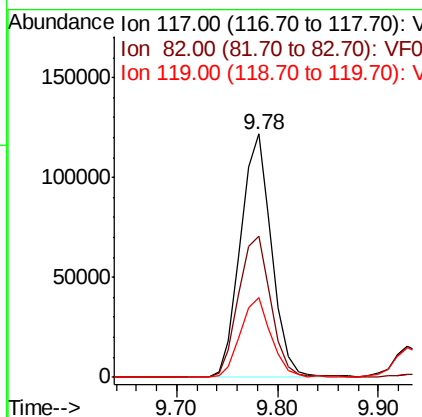
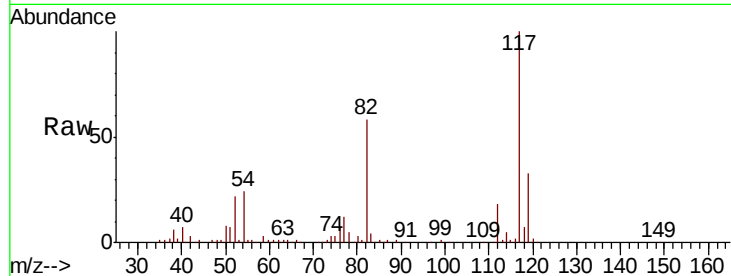
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 262324 |       |       |
| 82      | 57.9  | 46.6   | 69.8  |       |
| 119     | 32.6  | 26.4   | 39.6  |       |

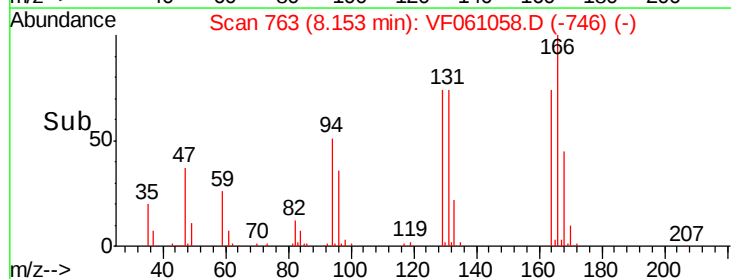
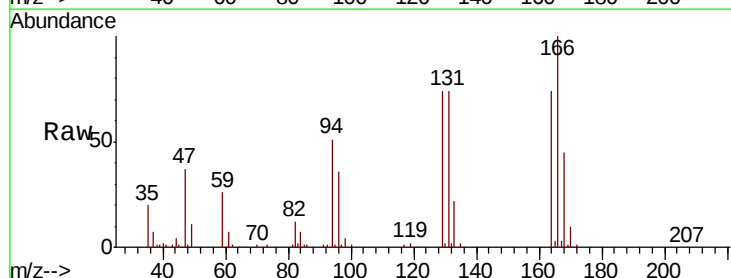
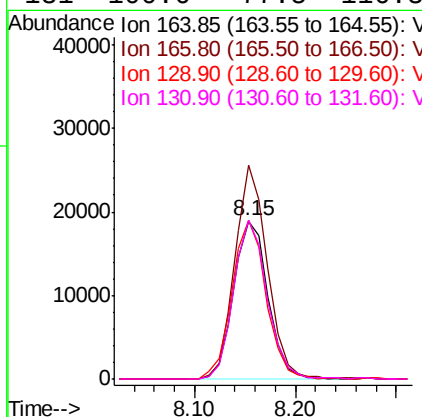
Manual Integrations  
APPROVED

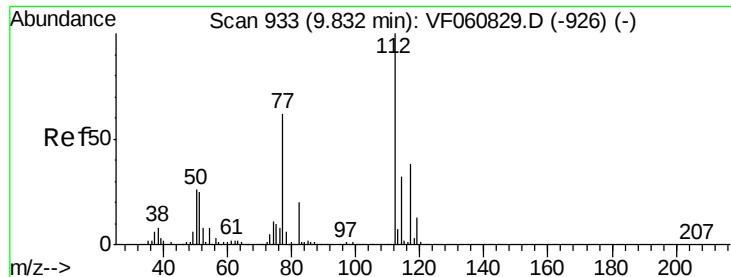
MMDadoda  
12/19/2018 2:14:54 PM



#64  
Tetrachloroethene  
Concen: 22.184 ug/l  
RT: 8.15 min Scan# 763  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 44448 |       |       |
| 166     | 135.2 | 100.3 | 150.5 |       |
| 129     | 100.1 | 77.9  | 116.9 |       |
| 131     | 100.6 | 77.5  | 116.3 |       |





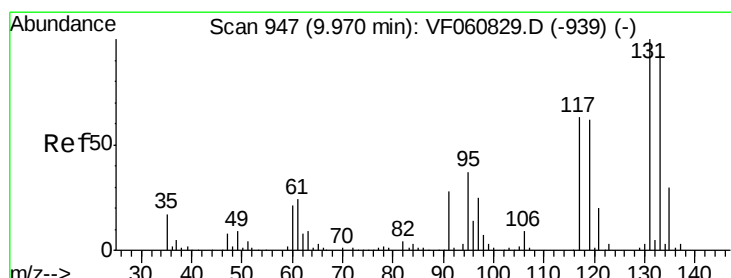
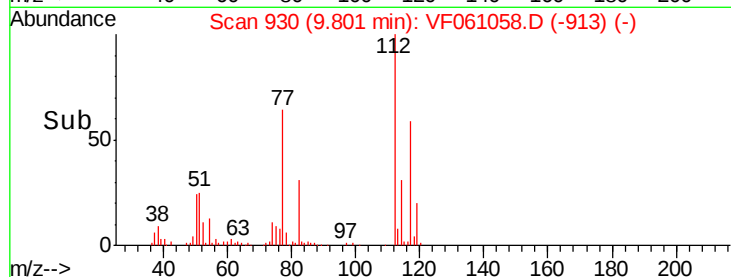
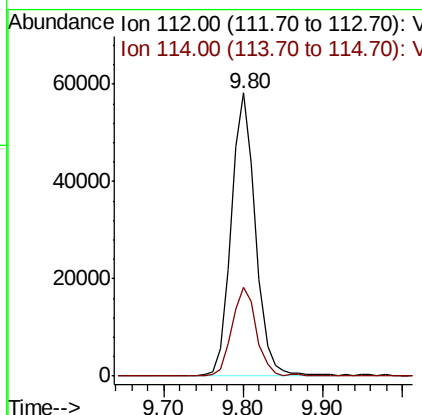
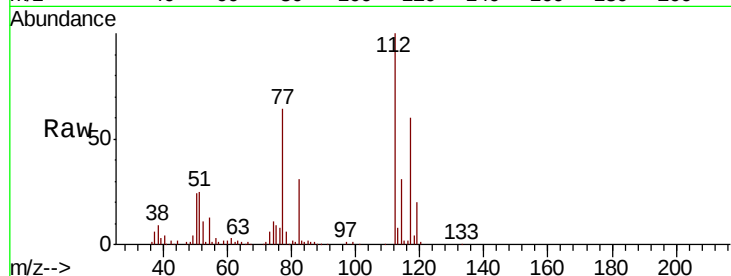
#65  
Chlorobenzene  
Concen: 24.338 ug/l  
RT: 9.80 min Scan# 930  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

Tot Ion:112 Resp: 124203  
Ion Ratio Lower Upper  
112 100  
114 31.5 26.0 39.0

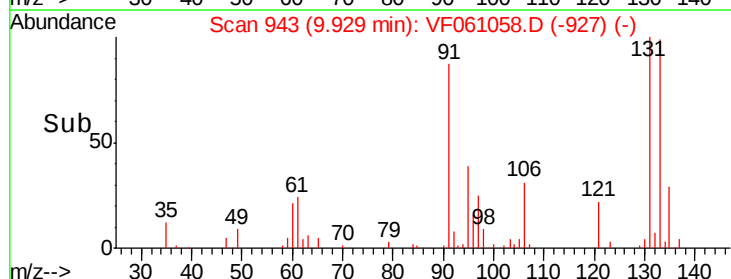
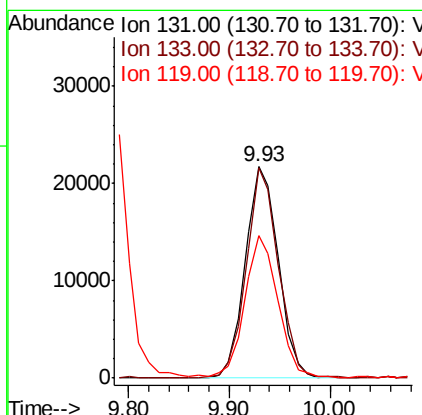
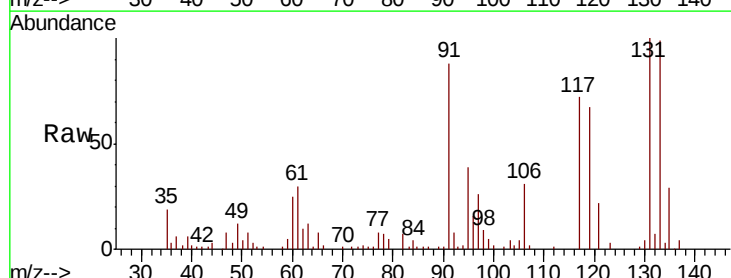
Manual Integrations  
APPROVED

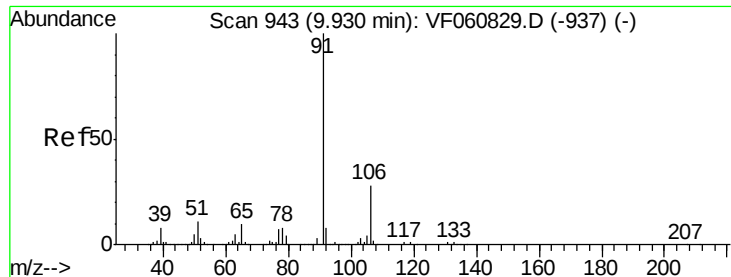
MMDadoda  
12/19/2018 2:14:54 PM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 22.641 ug/l  
RT: 9.93 min Scan# 943  
Delta R.T. -0.04 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Tgt Ion:131 Resp: 49671  
Ion Ratio Lower Upper  
131 100  
133 99.4 46.5 139.3  
119 67.4 31.1 93.3





#67

Ethyl Benzene

Concen: 23.165 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 91 Resp: 220081

Ion Ratio Lower Upper

91 100

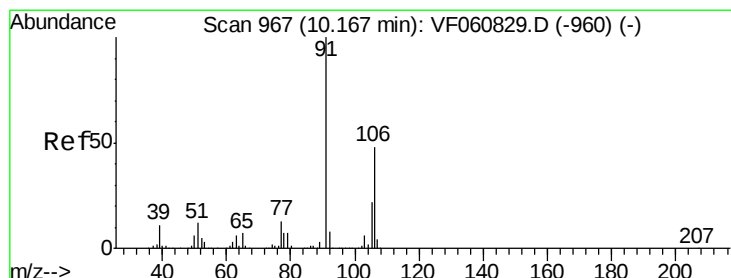
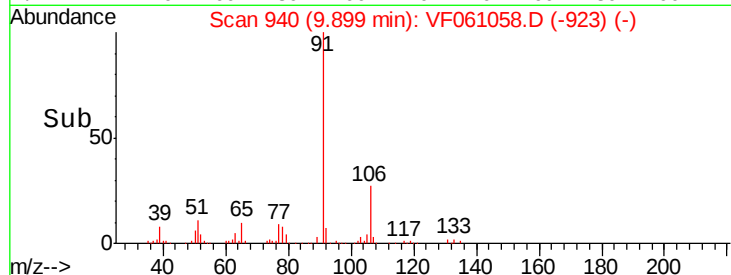
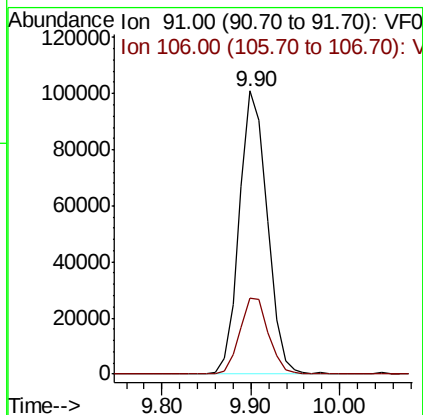
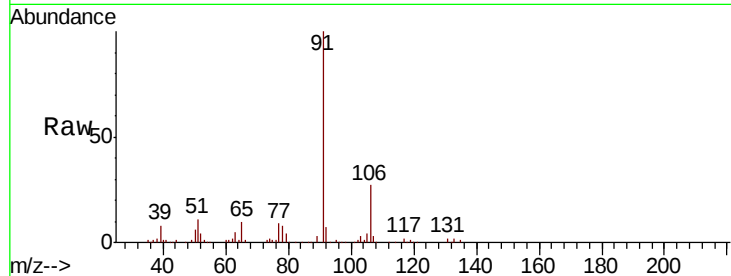
106 26.7 22.2 33.2

Manual Integrations

APPROVED

MMDadoda

12/19/2018 2:14:54 PM



#68

m/p-Xylenes

Concen: 44.785 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF061058.D

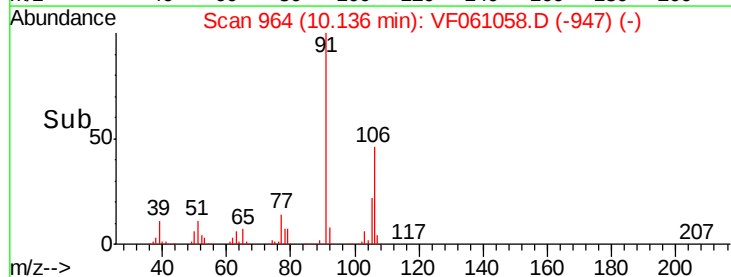
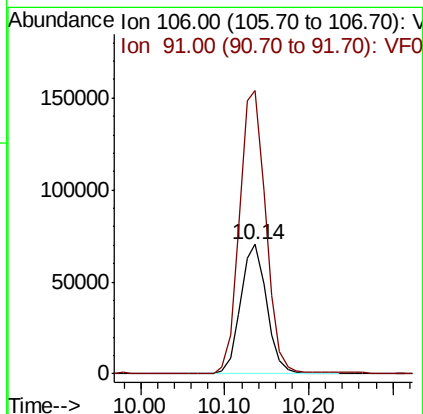
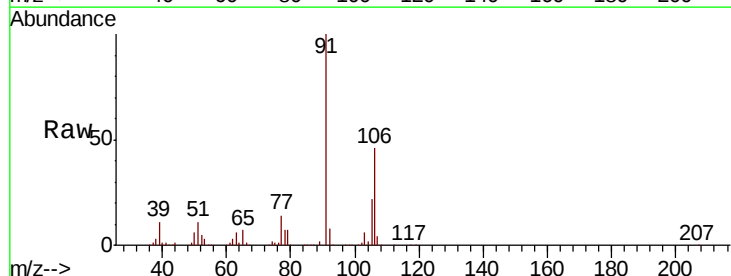
Acq: 18 Dec 2018 13:02

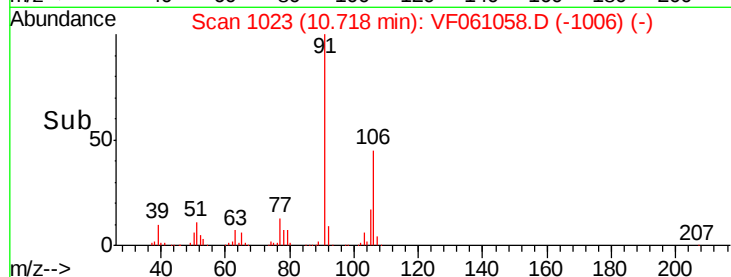
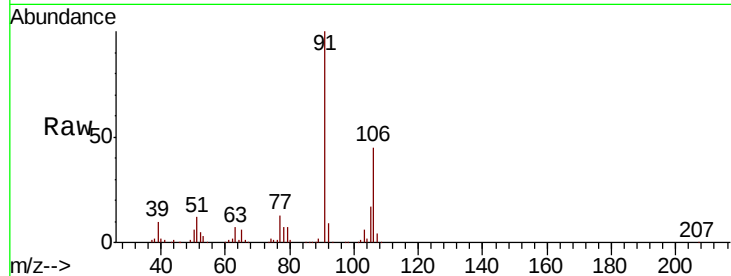
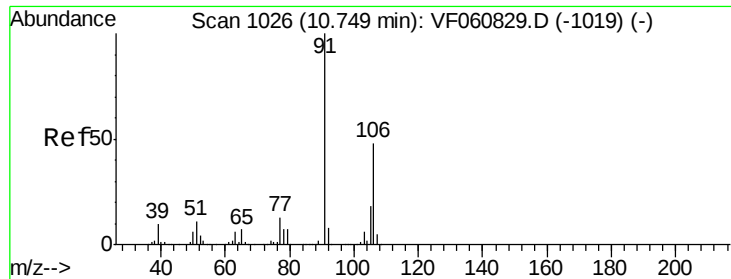
Tgt Ion: 106 Resp: 153032

Ion Ratio Lower Upper

106 100

91 218.4 166.7 250.1





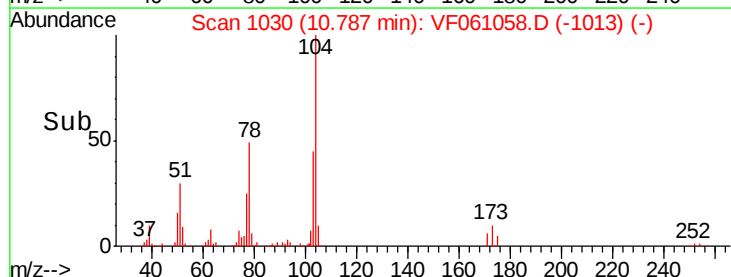
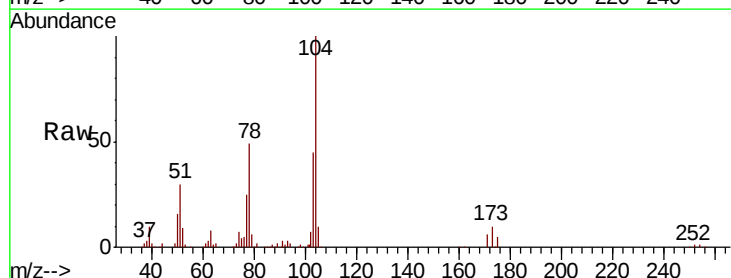
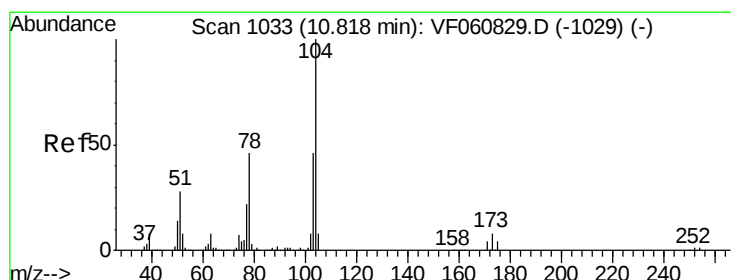
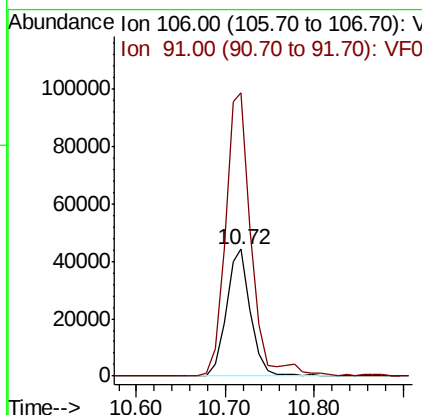
#69  
o-Xylene  
Concen: 22.449 ug/l  
RT: 10.72 min Scan# 1023  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Tot Ion:106 Resp: 84587  
Ion Ratio Lower Upper  
106 100  
91 222.6 104.8 314.6

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

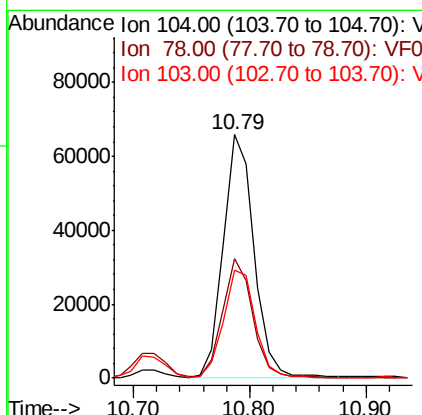
Manual Integrations  
APPROVED

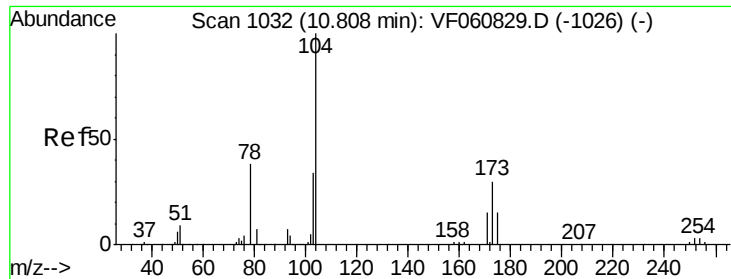
MMDadoda  
12/19/2018 2:14:54 PM



#70  
Styrene  
Concen: 23.071 ug/l  
RT: 10.79 min Scan# 1030  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Tgt Ion:104 Resp: 120505  
Ion Ratio Lower Upper  
104 100  
78 49.3 37.3 55.9  
103 44.6 36.8 55.2





#71

Bromoform

Concen: 22.527 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion:173 Resp: 23872

Ion Ratio Lower Upper

173 100

175 40.6 25.5 76.5

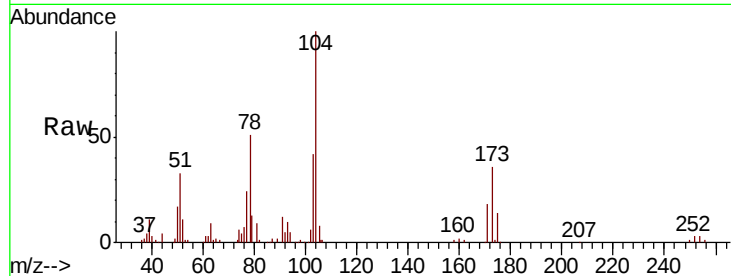
254 8.3 7.5 11.3

Manual Integrations

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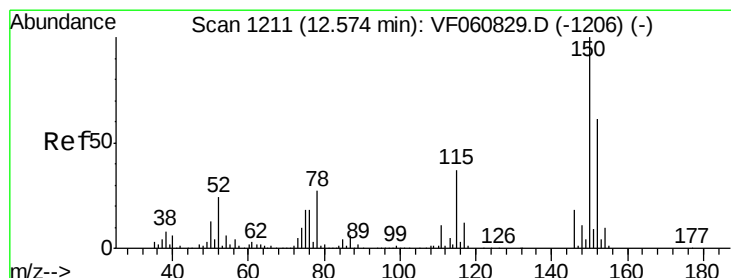
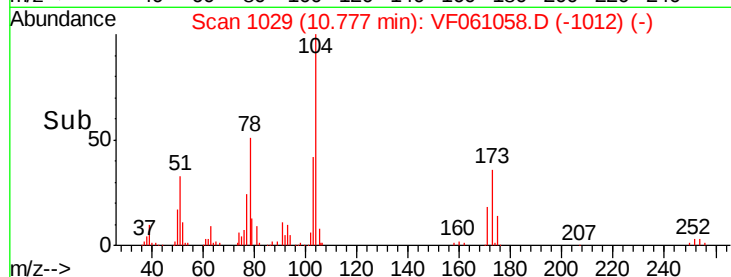
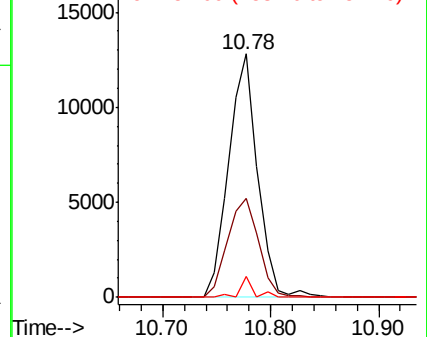


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

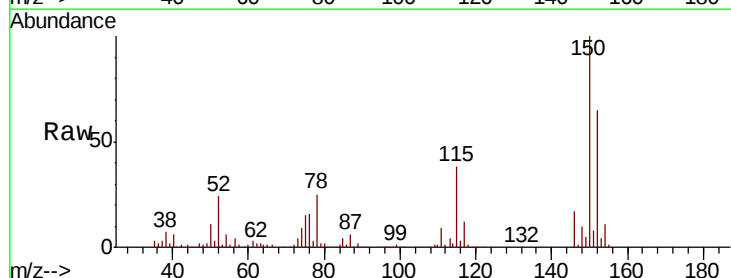
Tgt Ion:152 Resp: 136839

Ion Ratio Lower Upper

152 100

115 58.4 30.1 90.5

150 153.8 0.0 327.6

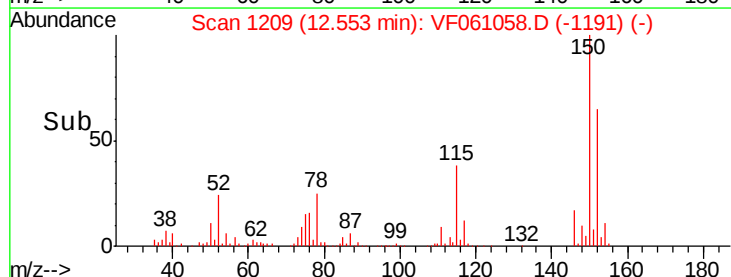
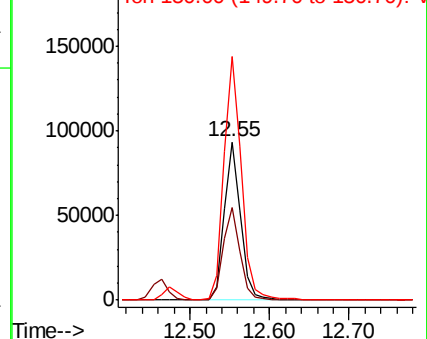


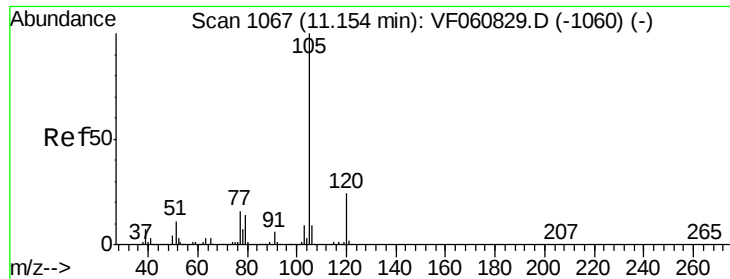
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 24.222 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 105 Resp: 261926

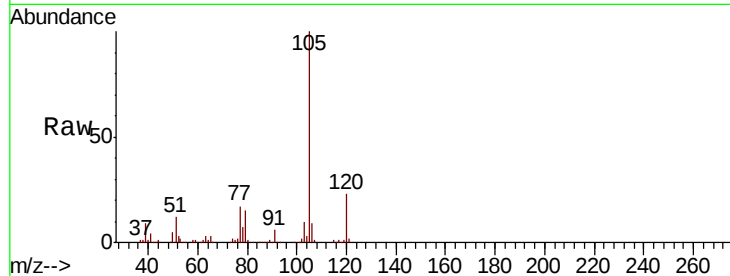
Ion Ratio Lower Upper

105 100

120 23.1 12.2 36.4

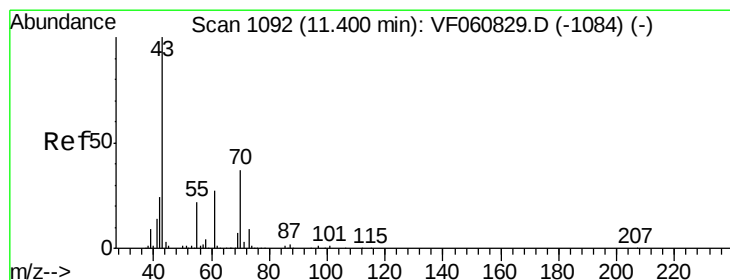
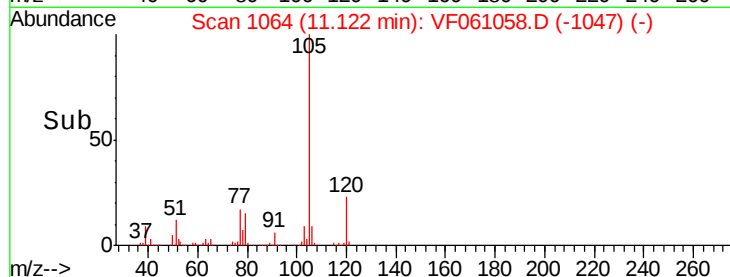
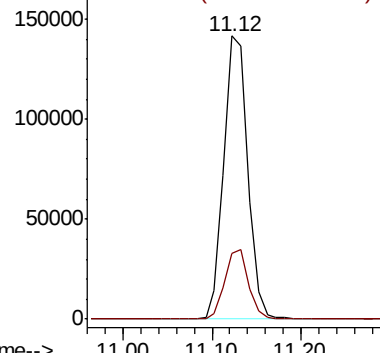
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.957 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Tgt Ion: 43 Resp: 54828

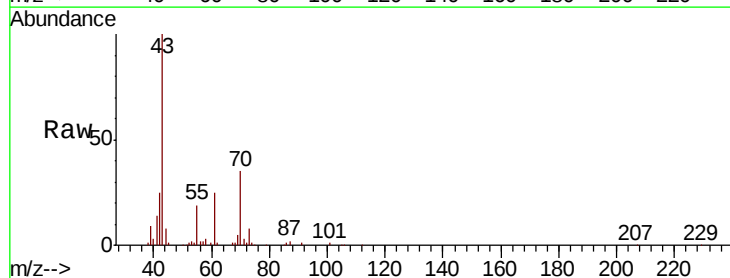
Ion Ratio Lower Upper

43 100

70 35.4 29.6 44.4

55 19.4 17.2 25.8

61 24.6 21.8 32.6

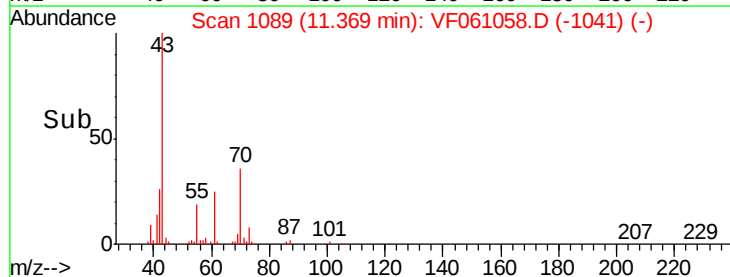
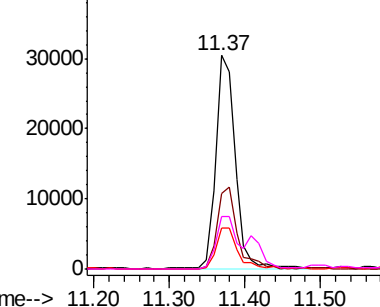


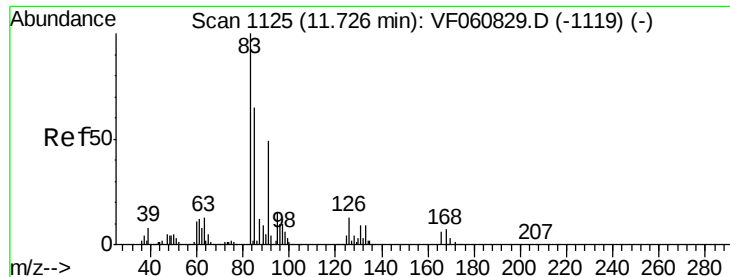
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.321 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

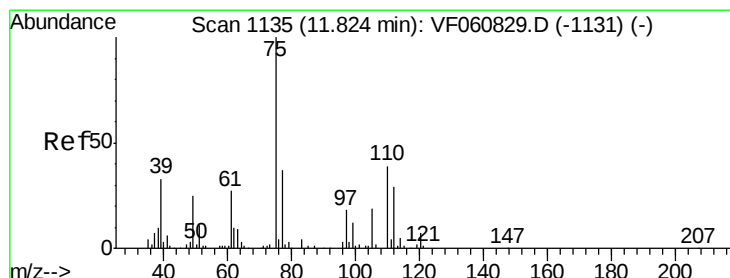
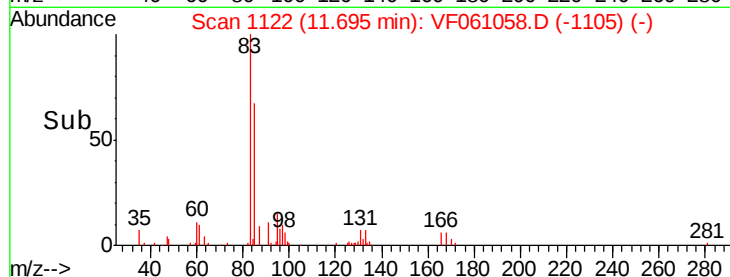
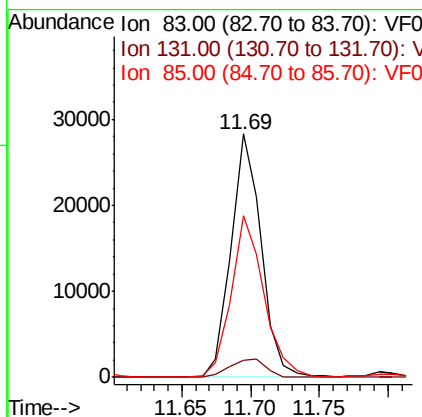
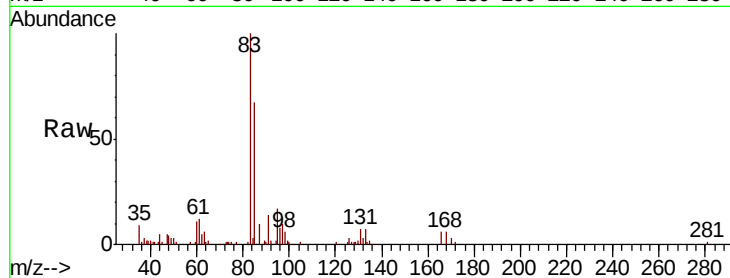
ClientSampleId :

VF1218SBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 43284 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 7.0   | 4.7   | 14.1  |
| 85        | 66.6  | 32.6  | 97.8  |

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#76

1,2,3-Trichloropropane

Concen: 25.393 ug/l

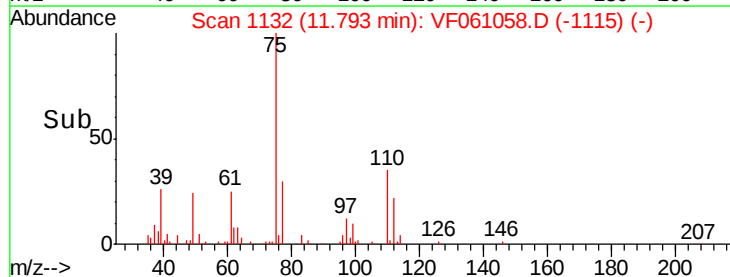
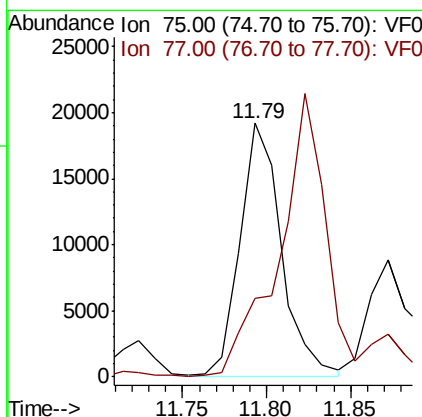
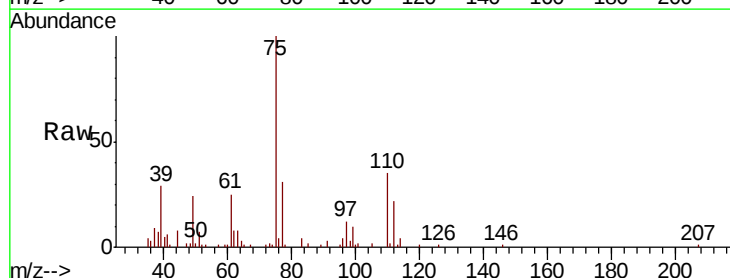
RT: 11.79 min Scan# 1132

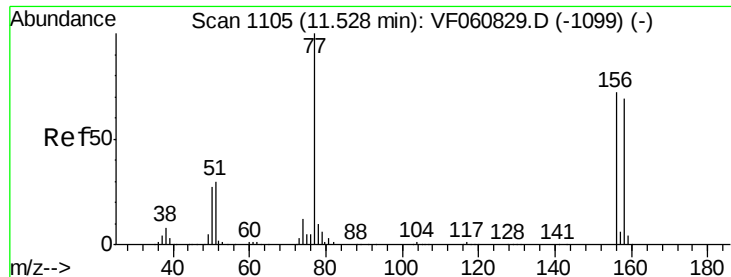
Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 32849 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 31.1  | 18.4  | 55.4  |





#77

Bromobenzene

Concen: 21.467 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

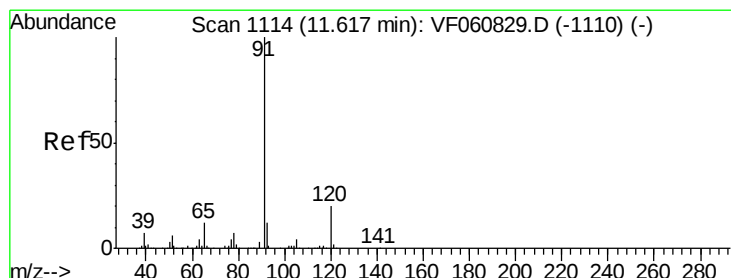
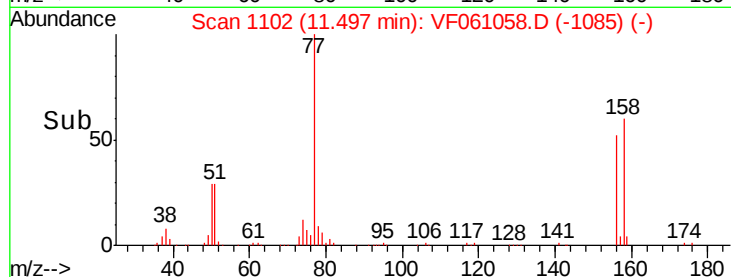
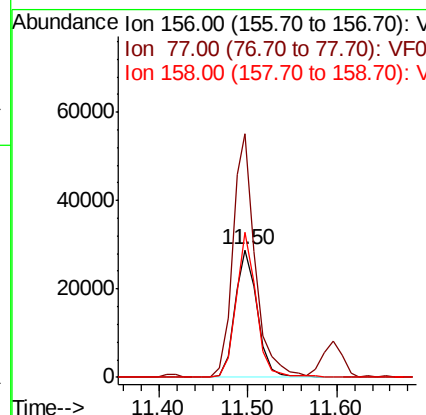
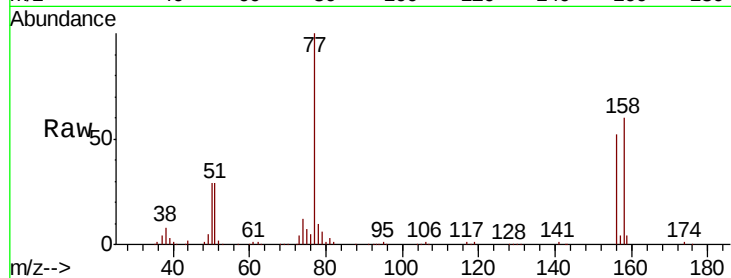
ClientSampleId :

VF1218SBS01

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 156     | 100   |       |       |       |       |
| 77      | 191.4 | 69.7  | 209.0 |       |       |
| 158     | 114.0 | 47.8  | 143.4 |       |       |

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#78

n-propylbenzene

Concen: 24.582 ug/l

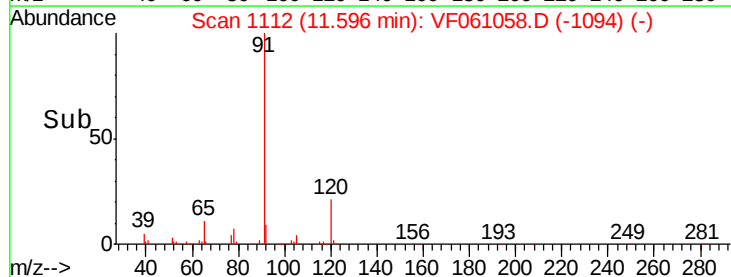
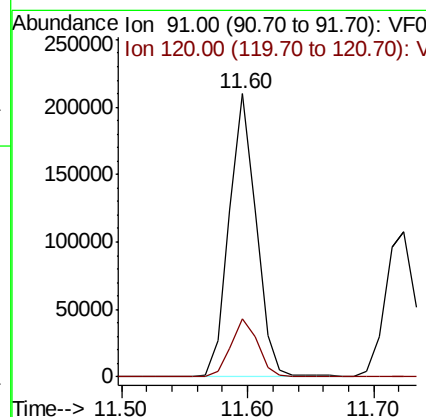
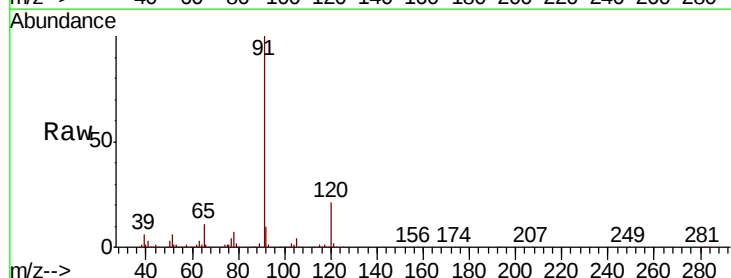
RT: 11.60 min Scan# 1112

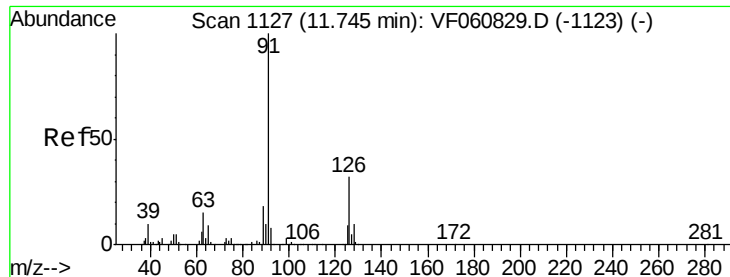
Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 91      | 100  |       |      |       |       |
| 120     | 20.5 | 10.3  | 30.8 |       |       |





#79

2-Chlorotoluene

Concen: 24.464 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS01

Tot Ion: 91 Resp: 177641

Ion Ratio Lower Upper

91 100

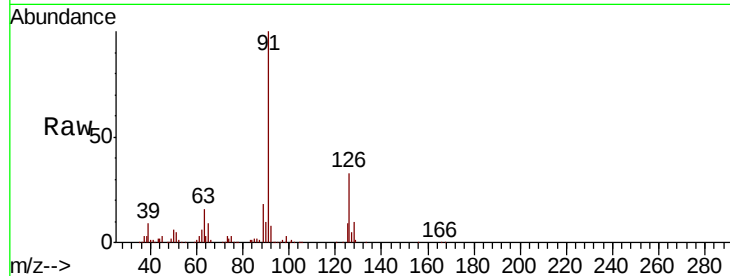
126 32.6 15.9 47.6

Manual Integrations

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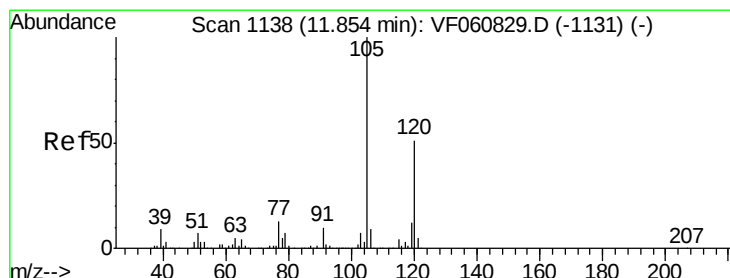
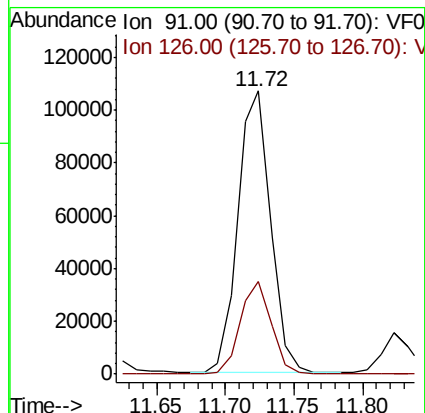
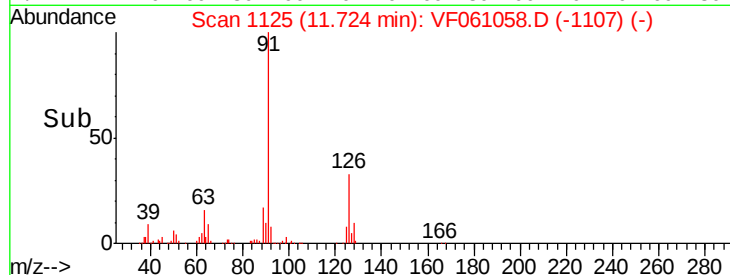


Abundance Ion 91.00 (90.70 to 91.70): VF061058.D (-1123) (-)

Ion 126.00 (125.70 to 126.70): VF061058.D (-1123) (-)

11.72

11.65 11.70 11.75 11.80



#80

1,3,5-Trimethylbenzene

Concen: 24.182 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF061058.D

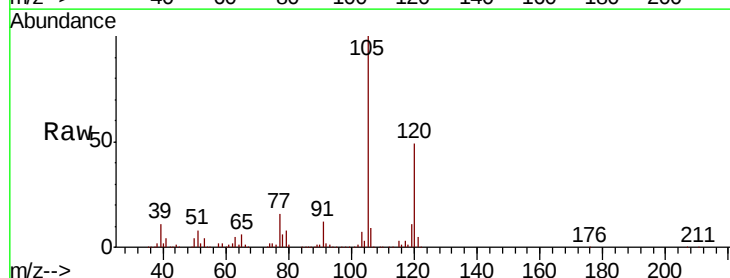
Acq: 18 Dec 2018 13:02

Tgt Ion: 105 Resp: 212291

Ion Ratio Lower Upper

105 100

120 48.7 25.8 77.3

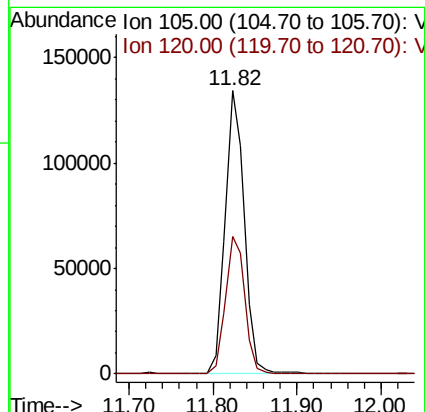
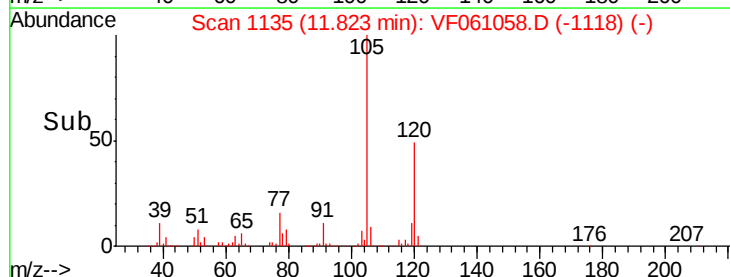


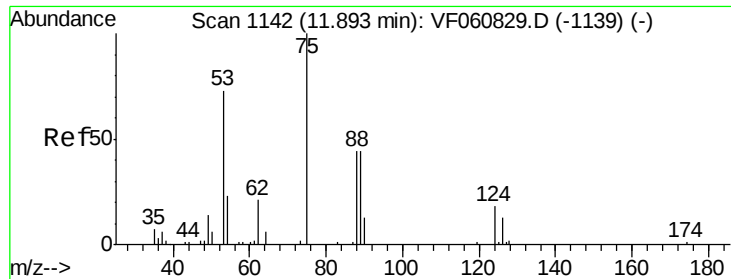
Abundance Ion 105.00 (104.70 to 105.70): VF061058.D (-1131) (-)

Ion 120.00 (119.70 to 120.70): VF061058.D (-1131) (-)

11.82

11.70 11.80 11.90 12.00





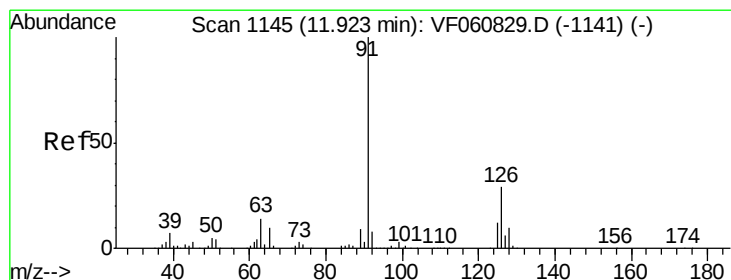
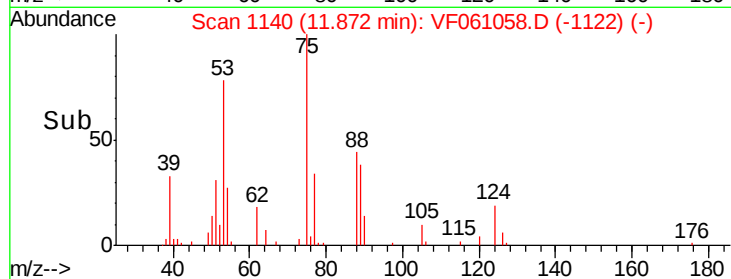
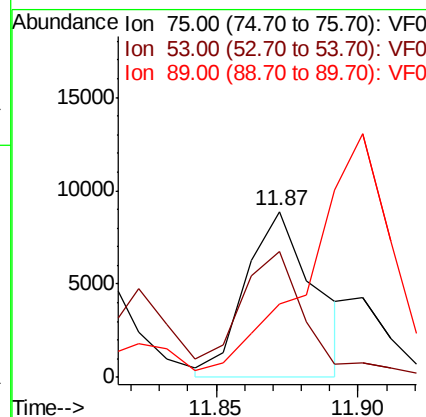
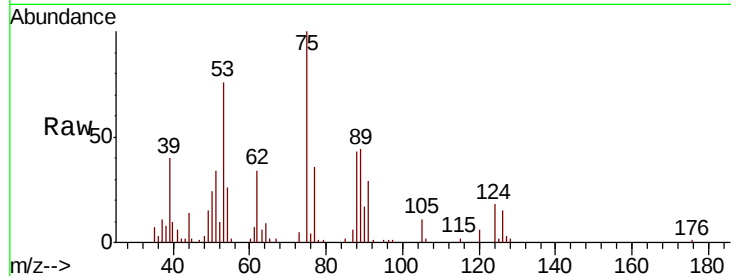
#81  
trans-1,4-Dichloro-2-butene  
Concen: 23.975 ug/l m  
RT: 11.87 min Scan# 1140  
Delta R.T. -0.02 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 76.0  | 65.9  | 98.9  |
| 89      | 44.2  | 38.8  | 58.2  |

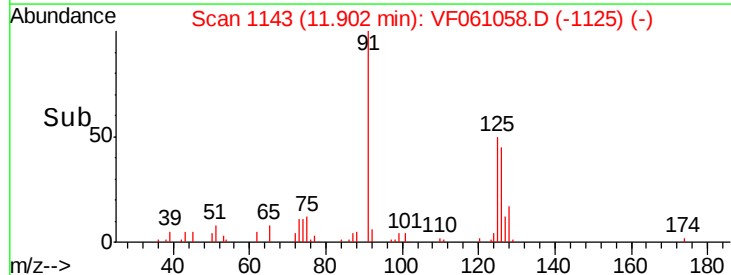
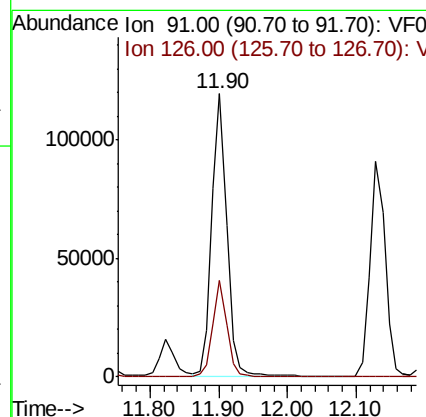
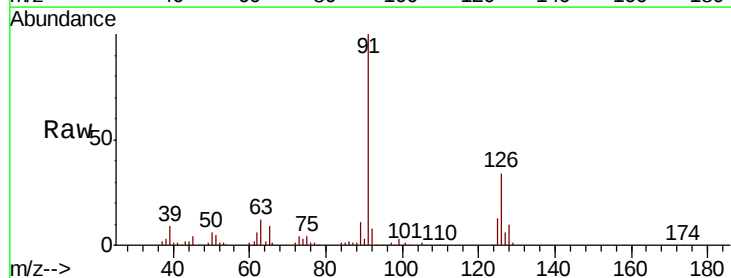
Manual Integrations  
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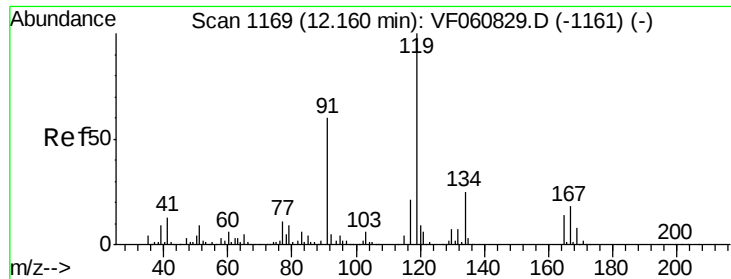
MMDadoda  
12/19/2018 2:14:54 PM



#82  
4-Chlorotoluene  
Concen: 24.117 ug/l  
RT: 11.90 min Scan# 1143  
Delta R.T. -0.02 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 33.9  | 14.8  | 44.4  |





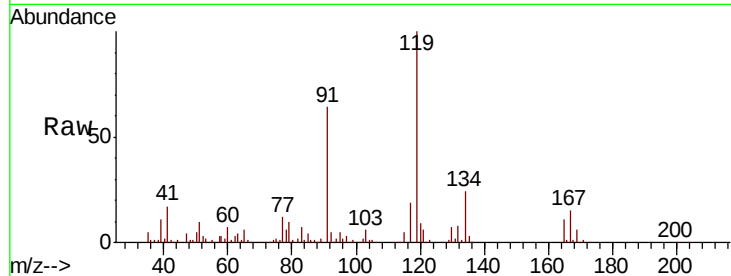
#83  
tert-Butylbenzene  
Concen: 25.050 ug/l  
RT: 12.13 min Scan# 1166  
Delta R.T. -0.03 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

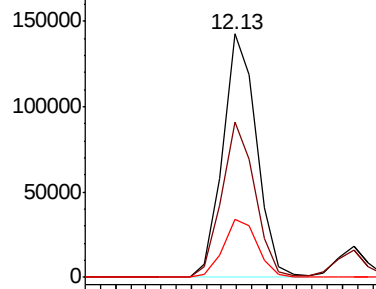
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 224006 |       |       |
| 91      | 63.8  |        | 30.1  | 90.3  |
| 134     | 23.6  |        | 12.6  | 37.8  |

Manual Integrations  
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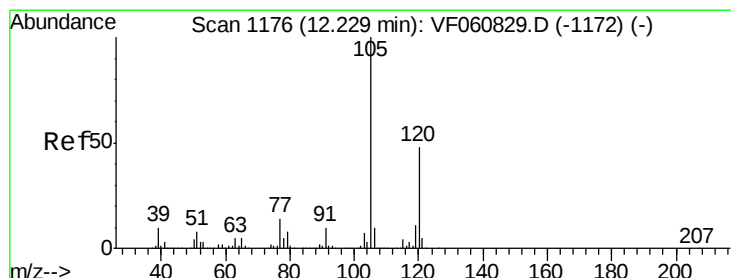
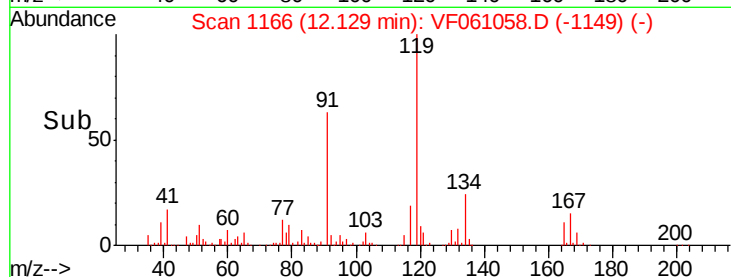
MMDadoda  
12/19/2018 2:14:54 PM



Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VF0  
Ion 134.00 (133.70 to 134.70): V

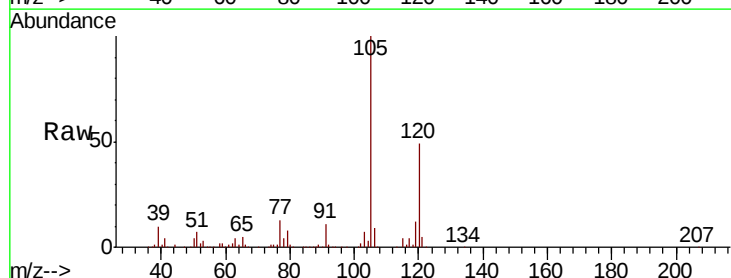


Time-->

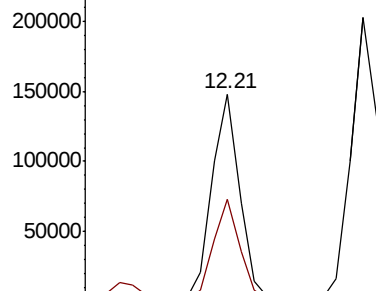


#84  
1,2,4-Trimethylbenzene  
Concen: 24.218 ug/l  
RT: 12.21 min Scan# 1174  
Delta R.T. -0.02 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

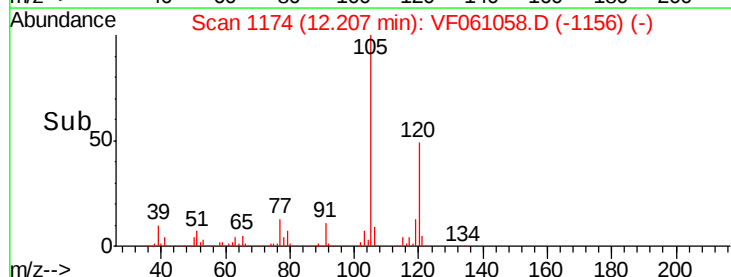
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 212180 |       |       |
| 120     | 49.5  |        | 23.8  | 71.5  |

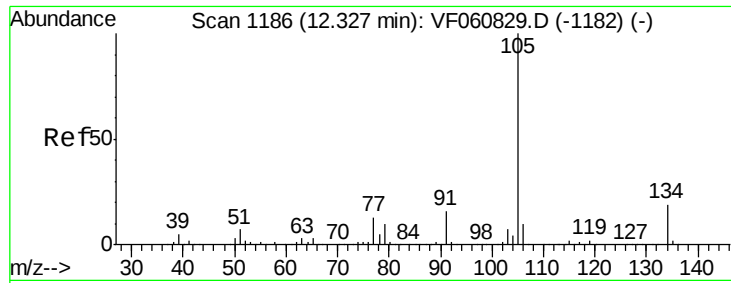


Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V



Time-->





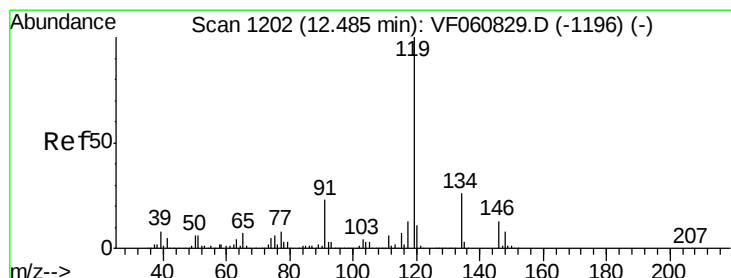
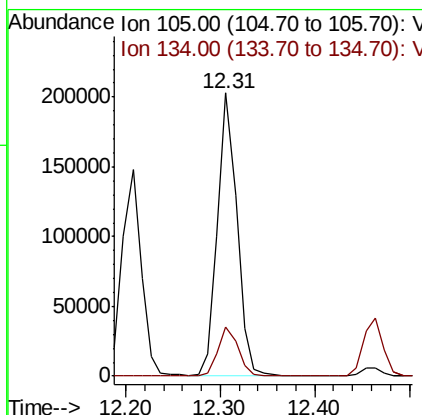
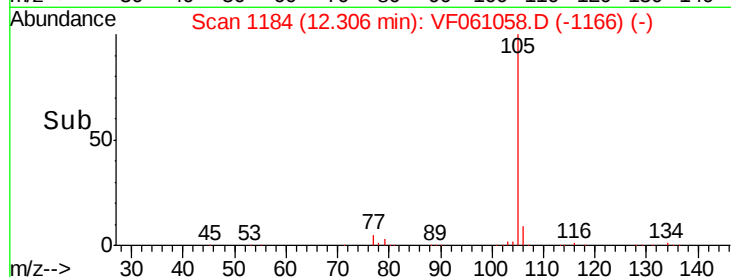
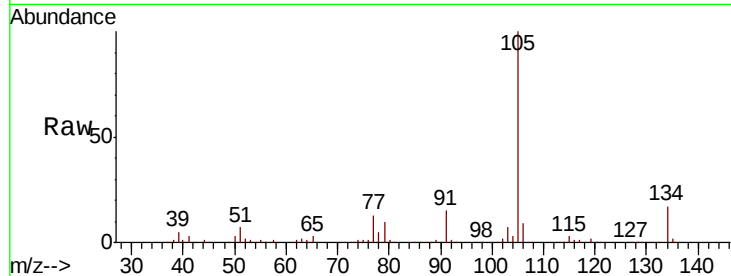
#85  
 sec-Butylbenzene  
 Concen: 23.753 ug/l  
 RT: 12.31 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 17.5  | 9.5   | 28.5  |

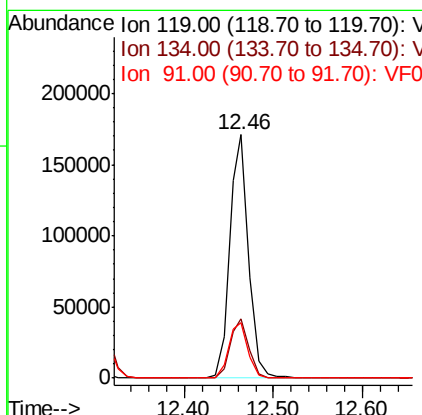
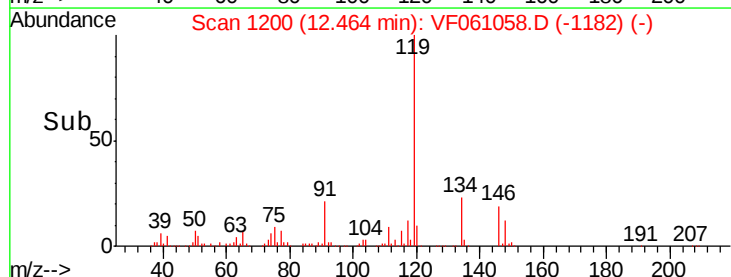
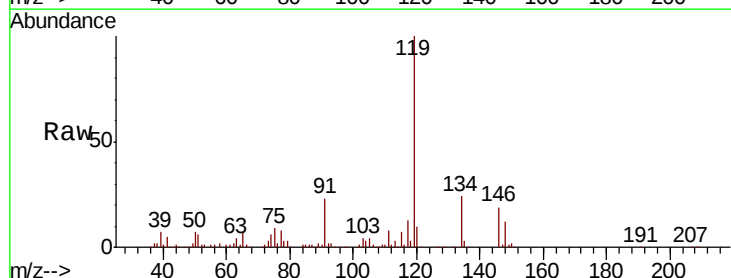
Manual Integrations  
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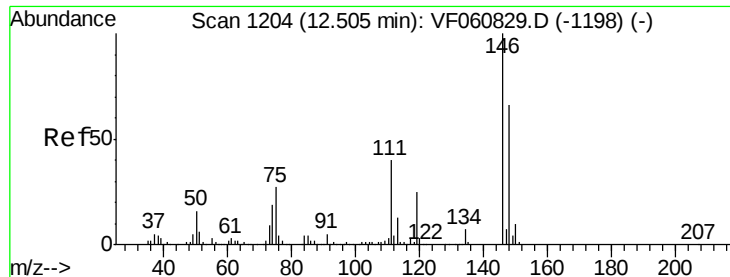
MMDadoda  
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#86  
 p-Isopropyltoluene  
 Concen: 24.821 ug/l  
 RT: 12.46 min Scan# 1200  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.4  | 12.9  | 38.6  |
| 91      | 22.6  | 11.8  | 35.3  |





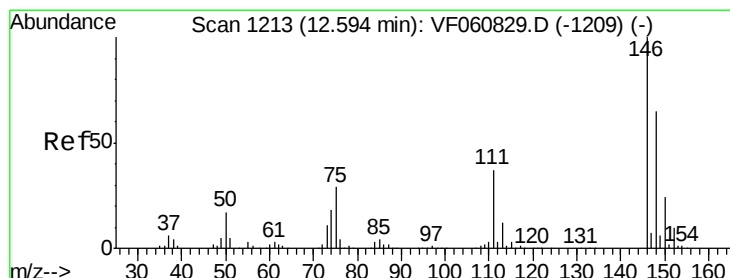
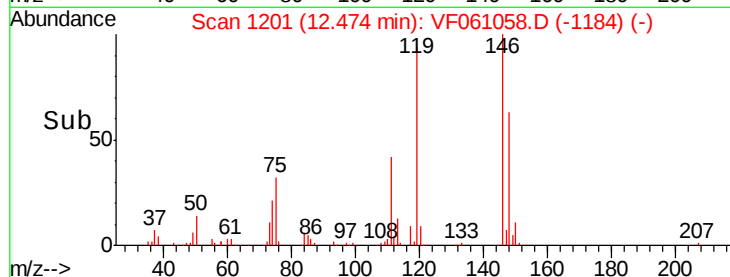
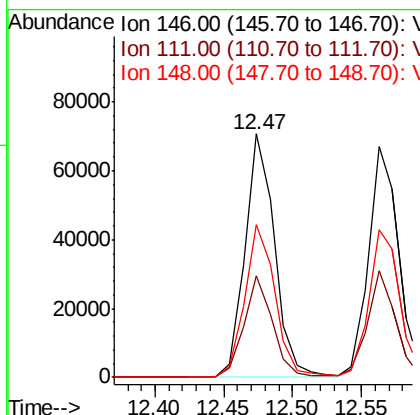
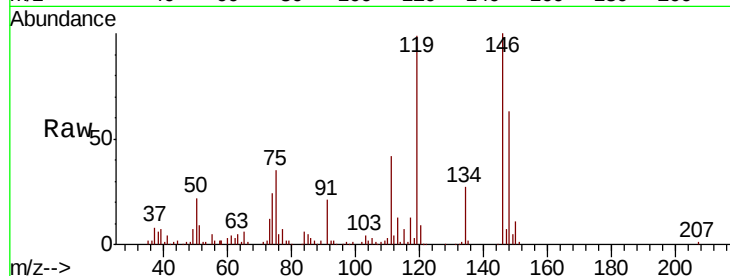
#87  
 1,3-Dichlorobenzene  
 Concen: 23.751 ug/l  
 RT: 12.47 min Scan# 1201  
 Delta R.T. -0.03 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.6  | 20.0  | 59.9  |
| 148     | 63.0  | 32.9  | 98.6  |

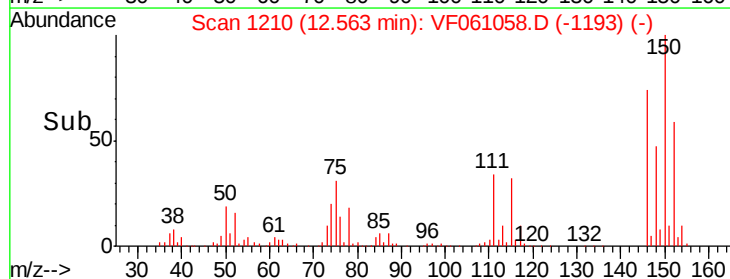
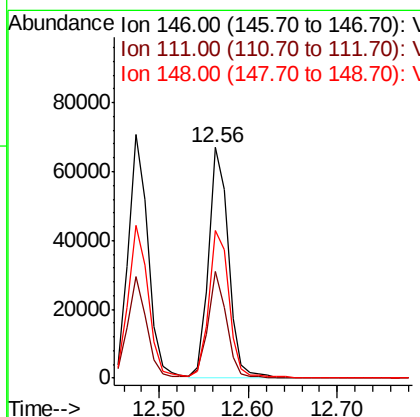
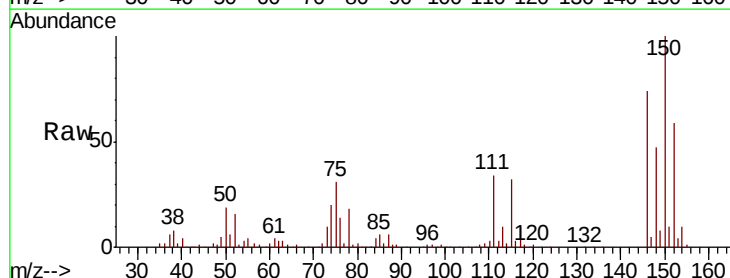
Manual Integrations  
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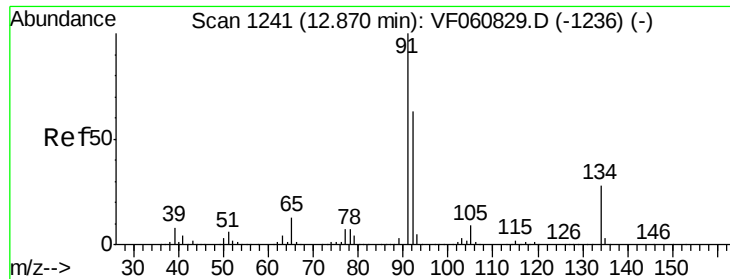
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#88  
 1,4-Dichlorobenzene  
 Concen: 23.738 ug/l  
 RT: 12.56 min Scan# 1210  
 Delta R.T. -0.03 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.4  | 18.9  | 56.7  |
| 148     | 64.2  | 32.3  | 96.9  |





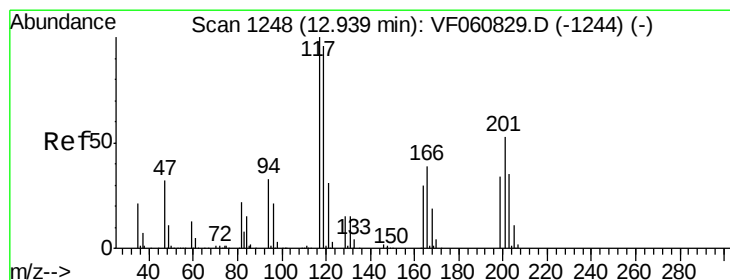
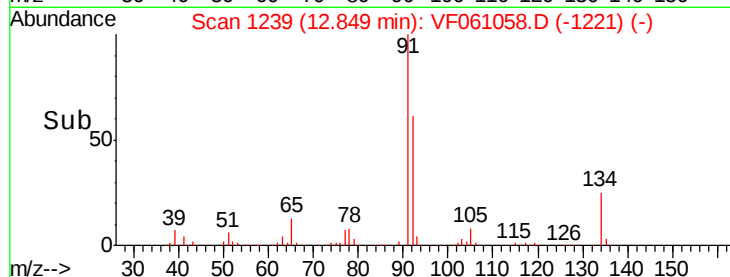
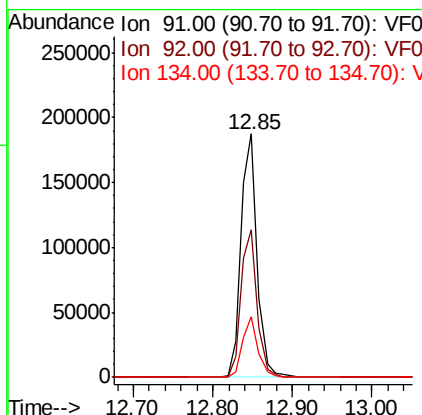
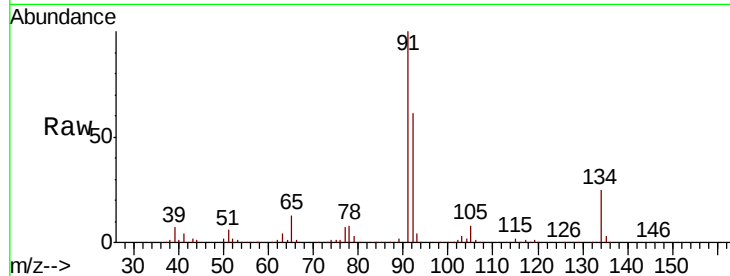
#89  
n-Butylbenzene  
Concen: 25.479 ug/l  
RT: 12.85 min Scan# 1239  
Delta R.T. -0.02 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 60.9  | 31.6  | 94.7  |
| 134     | 24.8  | 13.8  | 41.4  |

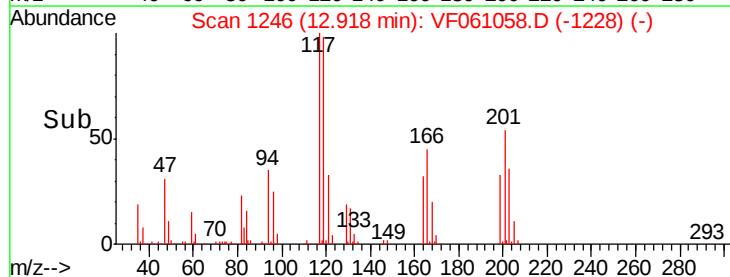
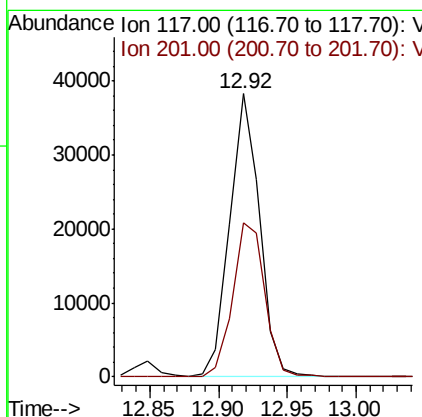
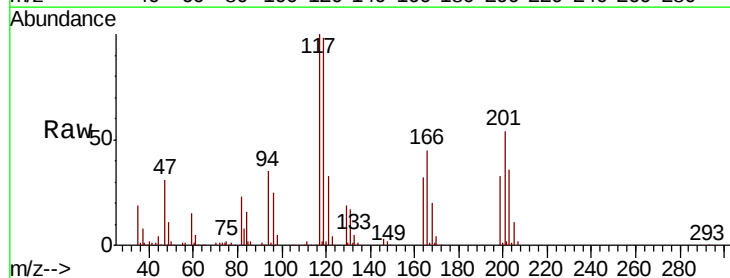
Manual Integrations  
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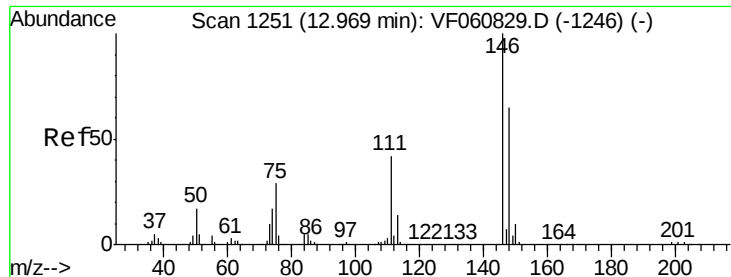
MMDadoda  
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#90  
Hexachloroethane  
Concen: 23.356 ug/l  
RT: 12.92 min Scan# 1246  
Delta R.T. -0.02 min  
Lab File: VF061058.D  
Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 54.3  | 26.7  | 80.1  |





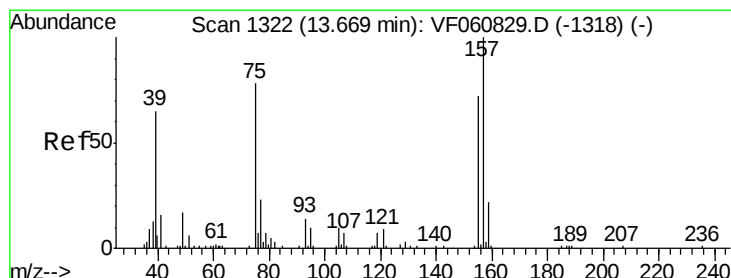
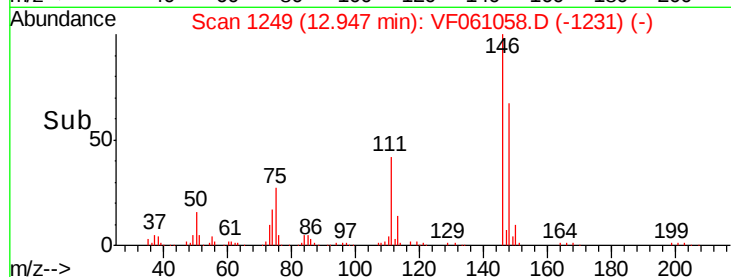
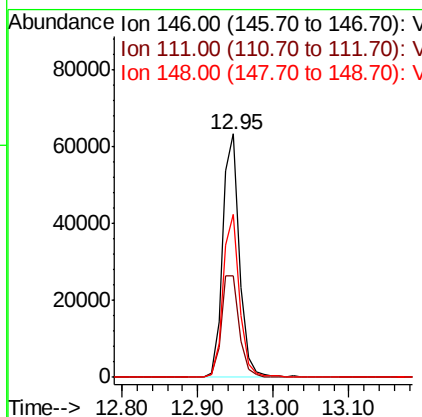
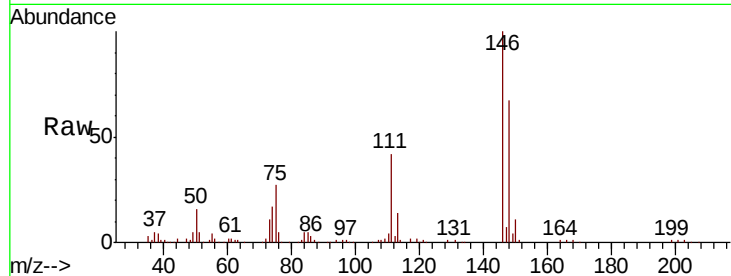
#91  
 1,2-Dichlorobenzene  
 Concen: 23.012 ug/l  
 RT: 12.95 min Scan# 1249  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.9  | 21.2  | 63.6  |
| 148     | 67.0  | 32.5  | 97.5  |

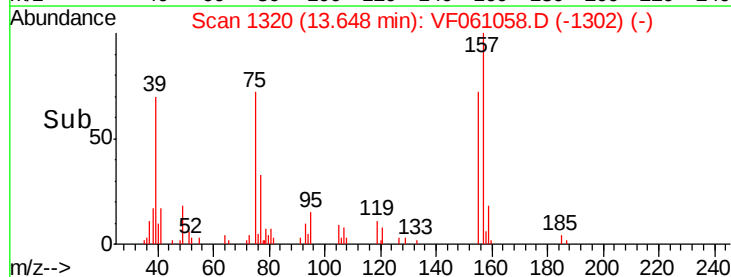
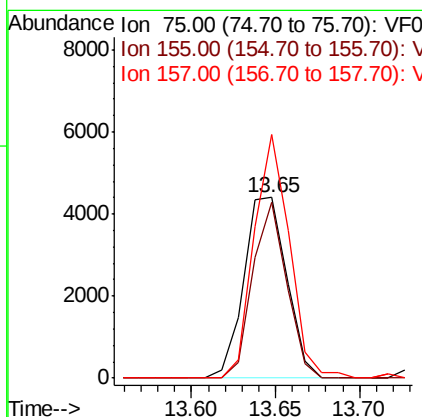
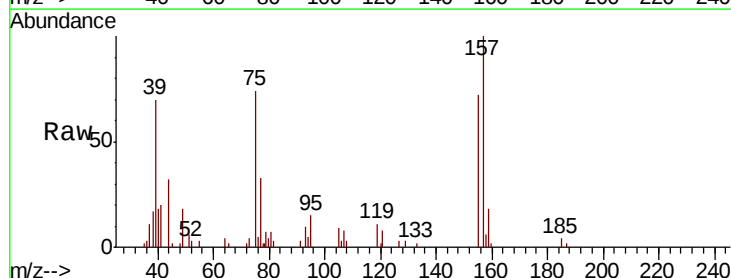
Manual Integrations  
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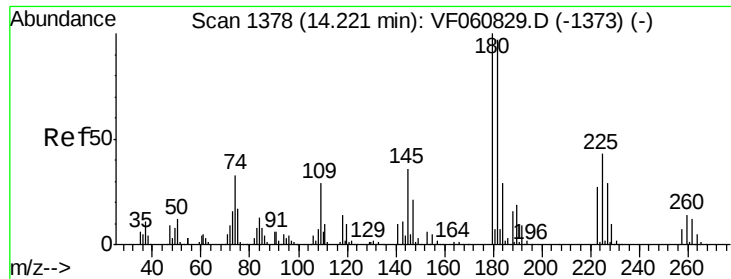
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 22.582 ug/l  
 RT: 13.65 min Scan# 1320  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 97.5  | 45.6  | 136.9 |
| 157     | 134.7 | 63.8  | 191.5 |





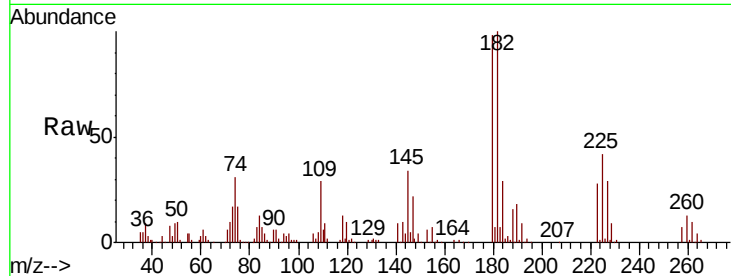
#93  
 1,2,4-Trichlorobenzene  
 Concen: 23.684 ug/l  
 RT: 14.20 min Scan# 1376  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS01

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 70672 |       |       |
| 182     | 102.1 | 48.5  | 145.5 |       |
| 145     | 34.5  | 18.1  | 54.3  |       |

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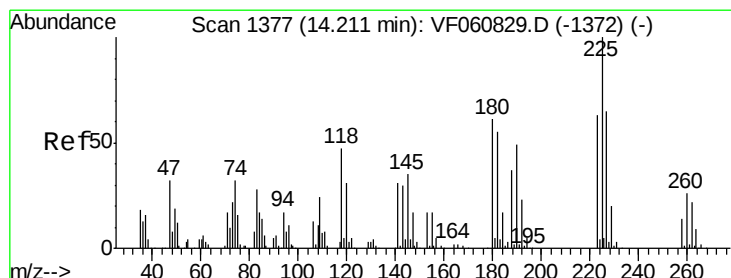
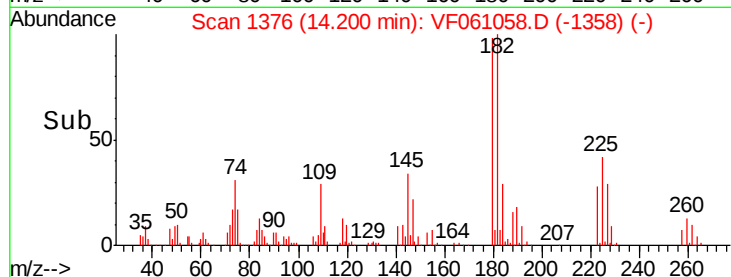
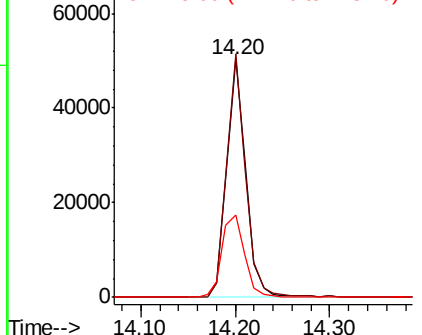


Abundance

Ion 180.00 (179.70 to 180.70): V

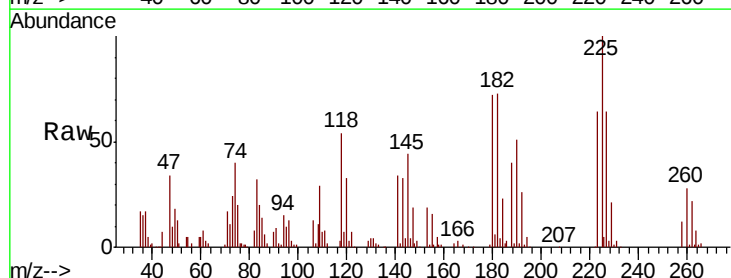
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94  
 Hexachlorobutadiene  
 Concen: 23.402 ug/l  
 RT: 14.19 min Scan# 1375  
 Delta R.T. -0.02 min  
 Lab File: VF061058.D  
 Acq: 18 Dec 2018 13:02

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 46551 |       |       |
| 223     | 63.7  | 31.4  | 94.3  |       |
| 227     | 63.6  | 32.5  | 97.5  |       |

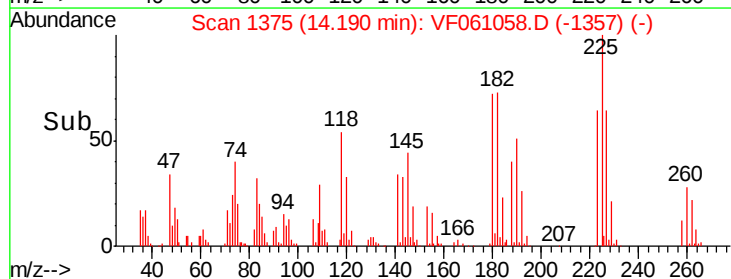
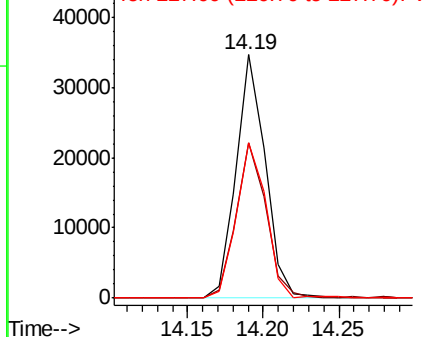


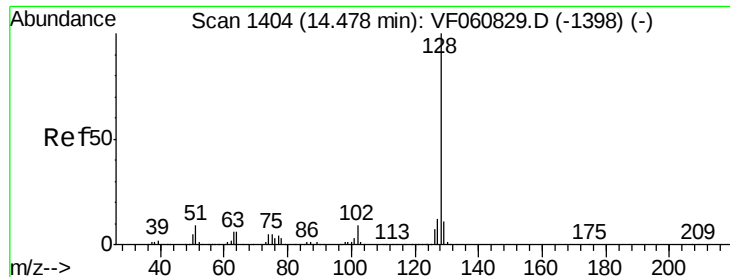
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 19.703 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

Instrument :

MSVOA\_F

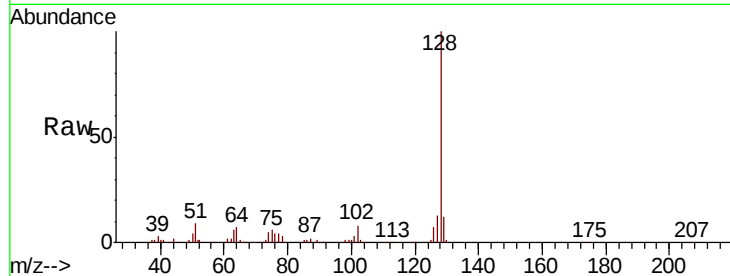
ClientSampleId :

VF1218SBS01

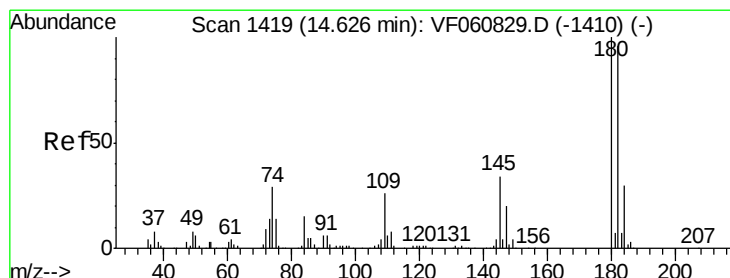
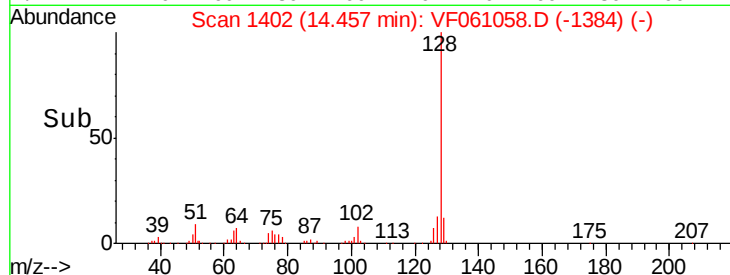
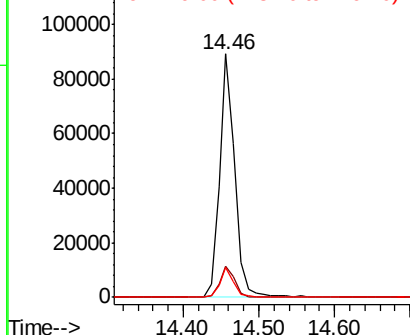
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 126388 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 12.7  | 9.9   | 14.9   |
| 129       | 12.0  | 9.1   | 13.7   |

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



#96

1,2,3-Trichlorobenzene

Concen: 23.336 ug/l

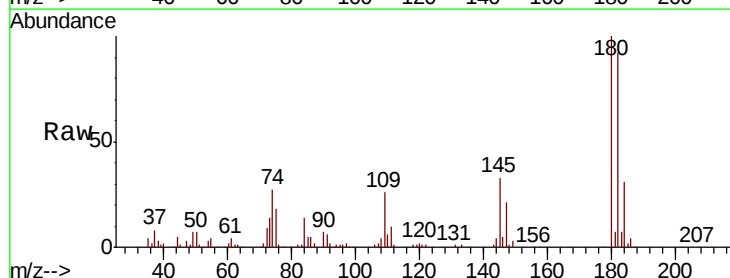
RT: 14.60 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF061058.D

Acq: 18 Dec 2018 13:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 64657 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 92.4  | 47.9  | 143.8 |
| 145       | 33.2  | 17.2  | 51.5  |



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

