

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091918\  
 Data File : VF060280.D  
 Acq On : 19 Sep 2018 14:14  
 Operator : VA/AP  
 Sample : VSTDICCC050  
 Misc : 5.00/5mL/MSVOA F/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

apatel  
 9/20/2018 11:54:47 AM

Quant Time: Sep 20 02:37:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 20 02:18:46 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.04  | 168  | 265574   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.76  | 114  | 441875   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 392038   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 207269   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.01   | 65  | 174293   | 48.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.48%  |      |
| 35) Dibromofluoromethane  | 4.29   | 113 | 191740   | 48.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.36%  |      |
| 50) Toluene-d8            | 7.71   | 98  | 517778   | 50.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.96% |      |
| 62) 4-Bromofluorobenzene  | 11.50  | 95  | 216786   | 48.89 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.78%  |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 0.99 | 85  | 198652  | 42.13  | ug/l | 100    |
| 3) Chloromethane              | 1.13 | 50  | 157824  | 44.11  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.18 | 62  | 160519  | 43.52  | ug/l | 100    |
| 5) Bromomethane               | 1.35 | 94  | 110621  | 44.71  | ug/l | 100    |
| 6) Chloroethane               | 1.43 | 64  | 82195   | 46.79  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.54 | 101 | 324539  | 47.23  | ug/l | 100    |
| 8) Diethyl Ether              | 1.70 | 74  | 50459   | 44.14  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 1.89 | 101 | 167224  | 45.76  | ug/l | 100    |
| 10) Methyl Iodide             | 1.96 | 142 | 267028  | 45.32  | ug/l | 100    |
| 11) Tert butyl alcohol        | 2.68 | 59  | 46718   | 204.94 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 1.85 | 96  | 142093  | 47.02  | ug/l | 100    |
| 13) Acrolein                  | 2.09 | 56  | 14624   | 131.24 | ug/l | 100    |
| 14) Allyl chloride            | 2.19 | 41  | 249438  | 47.30  | ug/l | 100    |
| 15) Acrylonitrile             | 3.06 | 53  | 114009  | 225.73 | ug/l | 100    |
| 16) Acetone                   | 2.34 | 43  | 239443  | 237.76 | ug/l | 100    |
| 17) Carbon Disulfide          | 1.88 | 76  | 389851  | 42.74  | ug/l | 100    |
| 18) Methyl Acetate            | 2.44 | 43  | 77125   | 45.97  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 2.53 | 73  | 346129  | 45.94  | ug/l | 100    |
| 20) Methylene Chloride        | 2.28 | 84  | 135568m | 37.87  | ug/l |        |
| 21) trans-1,2-Dichloroethene  | 2.40 | 96  | 138067  | 44.23  | ug/l | 100    |
| 22) Diisopropyl ether         | 2.92 | 45  | 461309  | 46.36  | ug/l | 100    |
| 23) Vinyl Acetate             | 3.32 | 43  | 888697  | 227.40 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.00 | 63  | 282320  | 43.75  | ug/l | 100    |
| 25) 2-Butanone                | 4.49 | 43  | 332039  | 244.95 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 3.75 | 77  | 178053  | 48.36  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 3.63 | 96  | 186539  | 45.49  | ug/l | 100    |
| 28) Bromochloromethane        | 3.88 | 49  | 114121  | 45.42  | ug/l | 100    |
| 29) Tetrahydrofuran           | 4.24 | 42  | 114112  | 229.88 | ug/l | 100    |
| 30) Chloroform                | 4.03 | 83  | 377707  | 48.51  | ug/l | 100    |
| 31) Cyclohexane               | 3.86 | 56  | 242210  | 44.44  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 4.27 | 97  | 298708  | 48.62  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 4.45 | 75  | 261586  | 47.46  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.28 | 43  | 108977  | 46.73  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 4.17 | 117 | 283904m | 45.14  | ug/l |        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091918\  
 Data File : VF060280.D  
 Acq On : 19 Sep 2018 14:14  
 Operator : VA/AP  
 Sample : VSTDICCC050  
 Misc : 5.00/5mL/MSVOA F/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

apatel  
 9/20/2018 11:54:47 AM

Quant Time: Sep 20 02:37:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 20 02:18:46 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 5.62  | 83   | 285489   | 47.79  | ug/l  | 100      |
| 40) Benzene                    | 4.80  | 78   | 590797   | 47.27  | ug/l  | 100      |
| 41) Methacrylonitrile          | 4.91  | 41   | 61155    | 48.33  | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 5.11  | 62   | 218252   | 47.44  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 7.10  | 43   | 129372   | 46.08  | ug/l  | 100      |
| 44) Trichloroethene            | 5.67  | 130  | 179695   | 48.31  | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 6.40  | 63   | 154929   | 47.90  | ug/l  | 100      |
| 46) Dibromomethane             | 6.25  | 93   | 111059   | 48.04  | ug/l  | 100      |
| 47) Bromodichloromethane       | 6.54  | 83   | 265447   | 47.78  | ug/l  | 100      |
| 48) Methyl methacrylate        | 6.86  | 41   | 88729    | 45.02  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 6.86  | 88   | 17247    | 979.51 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 544422   | 251.59 | ug/l  | 100      |
| 52) Toluene                    | 7.78  | 92   | 371653   | 47.01  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 8.42  | 75   | 213393   | 47.61  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 7.45  | 75   | 276175   | 48.92  | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 8.63  | 97   | 120927   | 50.39  | ug/l  | 100      |
| 56) Ethyl methacrylate         | 8.75  | 69   | 135391   | 46.72  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 8.99  | 76   | 198729   | 50.02  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.77  | 63   | 58690    | 229.07 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.62  | 43   | 394086   | 255.78 | ug/l  | 100      |
| 60) Dibromochloromethane       | 8.86  | 129  | 178830   | 50.00  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 127096   | 47.56  | ug/l  | 100      |
| 64) Tetrachloroethene          | 8.30  | 164  | 169373   | 47.66  | ug/l  | 100      |
| 65) Chlorobenzene              | 9.94  | 112  | 428169   | 48.19  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 173478   | 47.05  | ug/l  | 100      |
| 67) Ethyl Benzene              | 10.03 | 91   | 787131   | 47.91  | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.26 | 106  | 530283   | 93.43  | ug/l  | 100      |
| 69) o-Xylene                   | 10.82 | 106  | 307205   | 48.26  | ug/l  | 100      |
| 70) Styrene                    | 10.90 | 104  | 428359   | 47.71  | ug/l  | 100      |
| 71) Bromoform                  | 10.88 | 173  | 98834    | 48.80  | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.23 | 105  | 879226   | 47.25  | ug/l  | 100      |
| 74) N-amyl acetate             | 11.46 | 43   | 177067   | 44.63  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 158502   | 48.07  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 109825   | 46.51  | ug/l  | 100      |
| 77) Bromobenzene               | 11.59 | 156  | 191127   | 47.66  | ug/l  | 100      |
| 78) n-propylbenzene            | 11.68 | 91   | 1039910  | 47.34  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 572767   | 45.63  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 730210   | 48.75  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 55946m   | 36.77  | ug/l  |          |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 591956   | 46.92  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 12.21 | 119  | 727086   | 47.89  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 703139   | 46.23  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 12.39 | 105  | 1015942  | 48.33  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 800318   | 48.11  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.56 | 146  | 349611   | 46.66  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.65 | 146  | 358072   | 48.35  | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.91 | 91   | 831611   | 47.26  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.99 | 117  | 206774   | 48.67  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.02 | 146  | 332200   | 46.47  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.71 | 75   | 28810    | 46.53  | ug/l  | 100      |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF091918\  
Data File : VF060280.D  
Acq On : 19 Sep 2018 14:14  
Operator : VA/AP  
Sample : VSTDICCC050  
Misc : 5.00/5mL/MSVOA F/SOIL  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

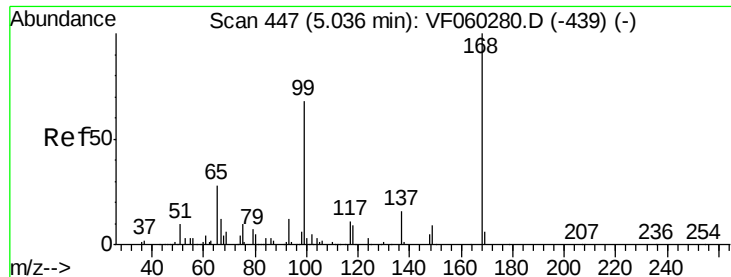
apatel  
9/20/2018 11:54:47 AM

Quant Time: Sep 20 02:37:19 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F091918S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 20 02:18:46 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.26 | 180  | 241862   | 46.55 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 14.25 | 225  | 169773   | 48.34 | ug/l  | 100      |
| 95) Naphthalene            | 14.52 | 128  | 423967   | 46.54 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.67 | 180  | 236050   | 49.17 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 265574

Ion Ratio Lower Upper

168 100

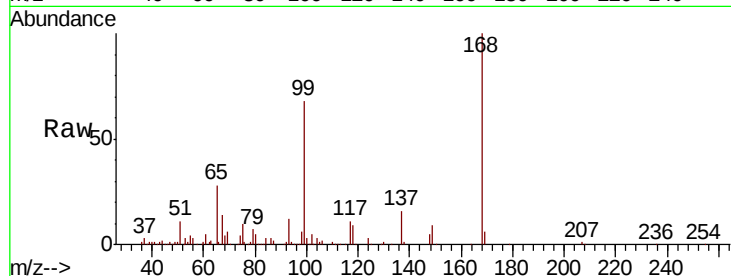
99 68.5 54.8 82.2

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

100000

80000

60000

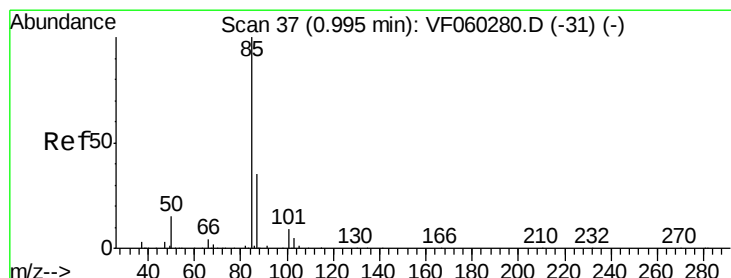
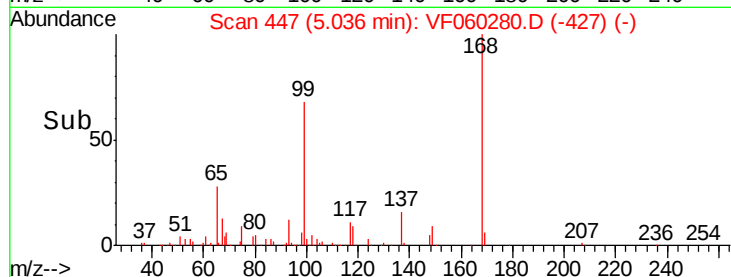
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 42.13 ug/l

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060280.D

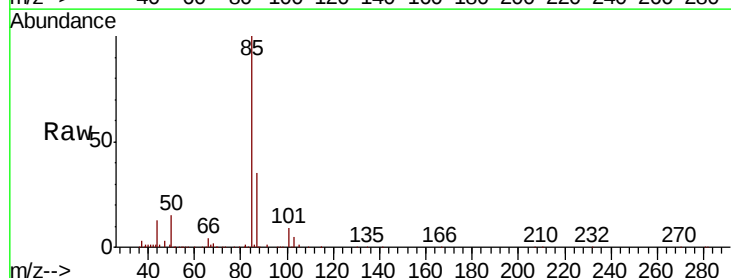
Acq: 19 Sep 2018 14:14

Tgt Ion: 85 Resp: 198652

Ion Ratio Lower Upper

85 100

87 34.7 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

80000

60000

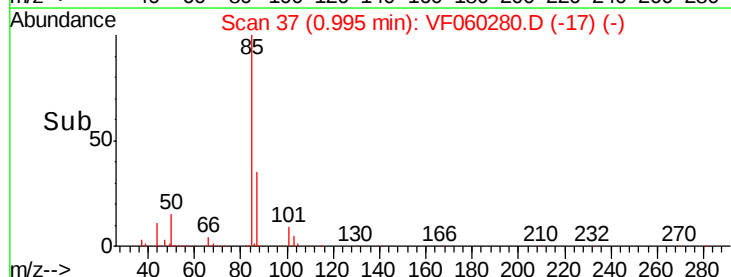
40000

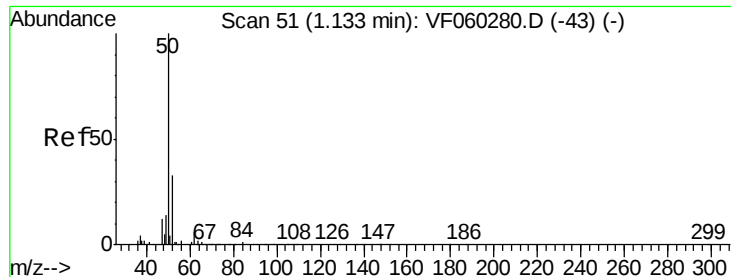
20000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 44.11 ug/l

RT: 1.13 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 157824

Ion Ratio Lower Upper

50 100

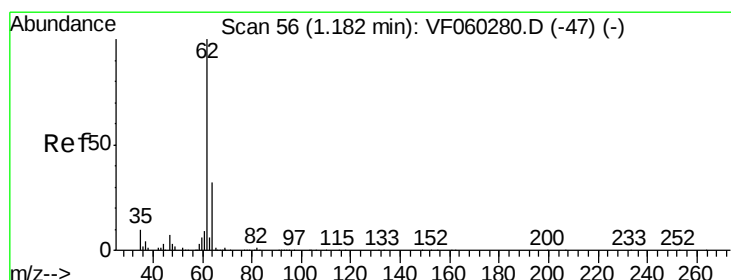
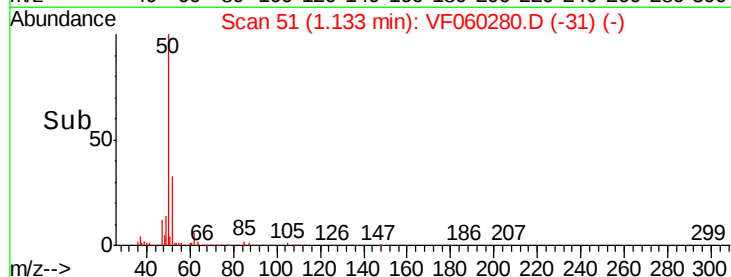
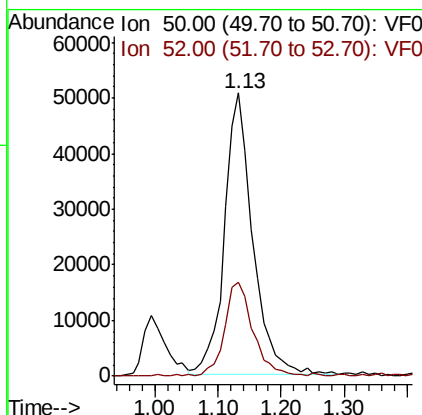
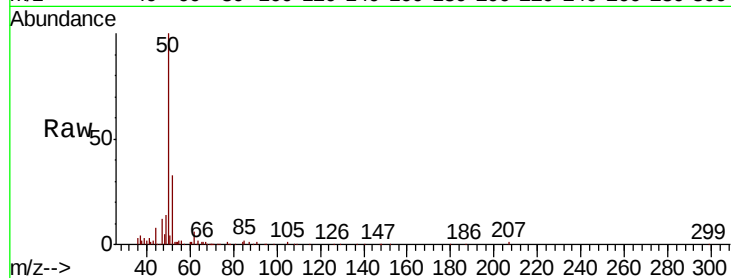
52 33.1 26.5 39.7

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#4

Vinyl Chloride

Concen: 43.52 ug/l

RT: 1.18 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF060280.D

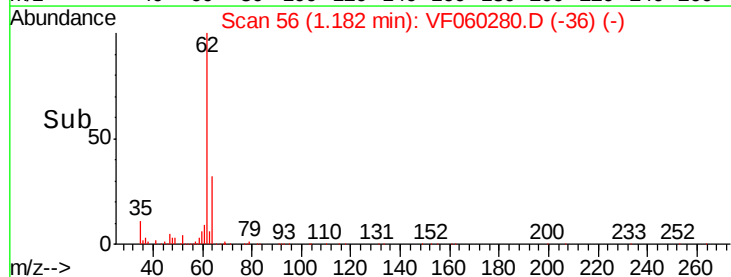
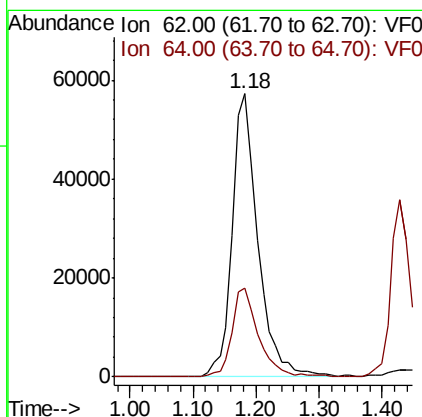
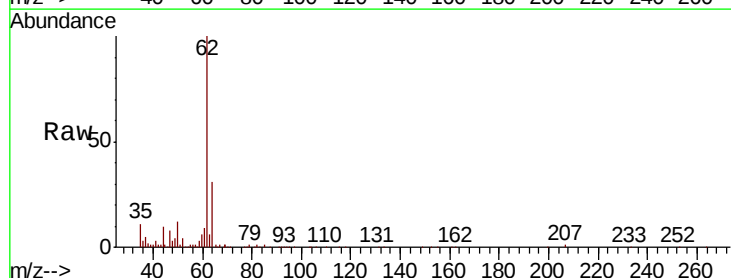
Acq: 19 Sep 2018 14:14

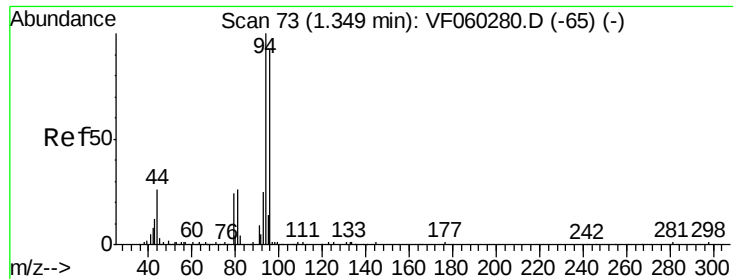
Tgt Ion: 62 Resp: 160519

Ion Ratio Lower Upper

62 100

64 31.5 25.2 37.8





#5

Bromomethane

Concen: 44.71 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Tot Ion: 94 Resp: 110621

Ion Ratio Lower Upper

94 100

96 92.4 73.9 110.9

Instrument :

MSVOA\_F

ClientSampleId :

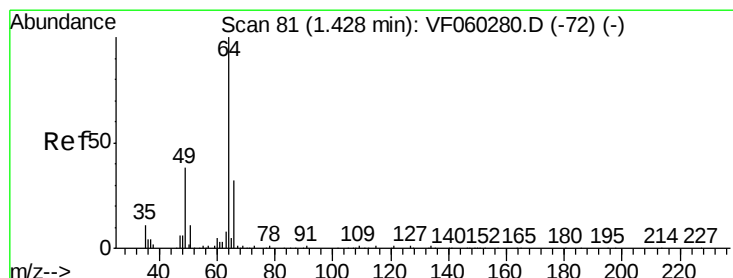
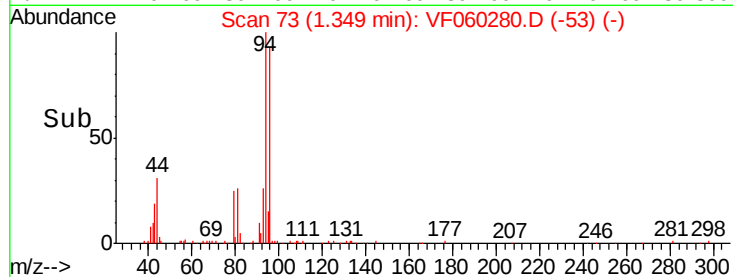
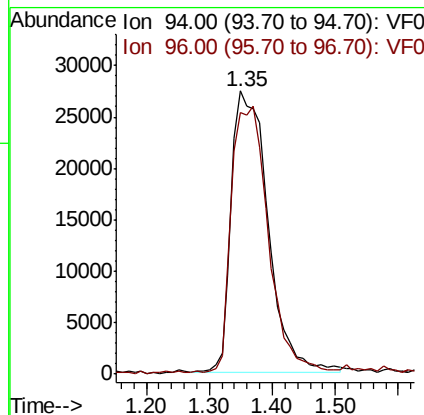
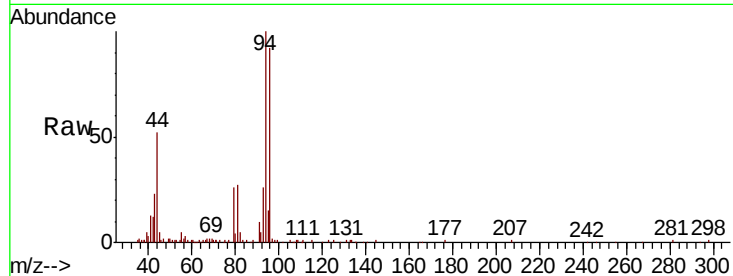
VSTDICCC050

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#6

Chloroethane

Concen: 46.79 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.00 min

Lab File: VF060280.D

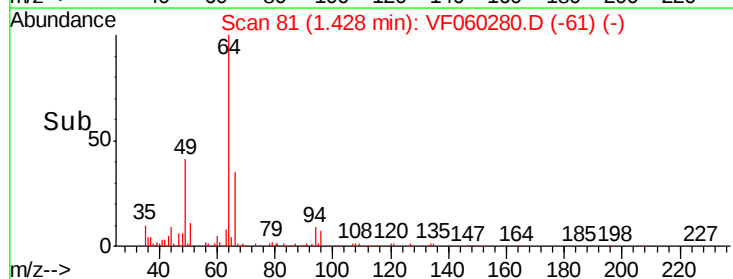
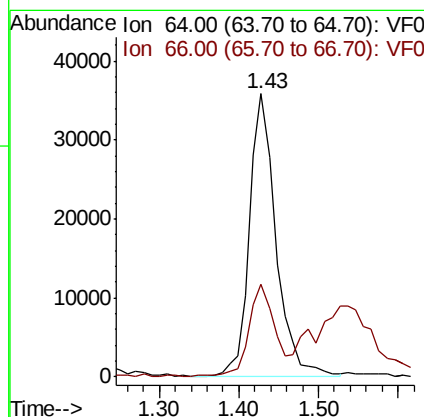
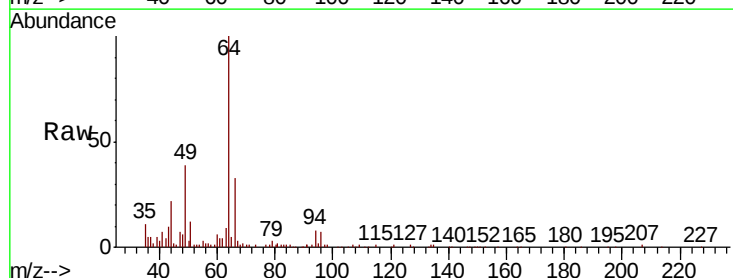
Acq: 19 Sep 2018 14:14

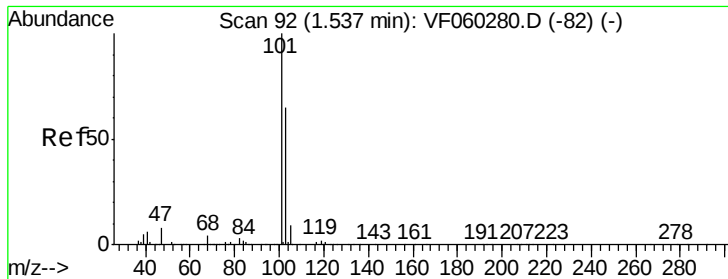
Tgt Ion: 64 Resp: 82195

Ion Ratio Lower Upper

64 100

66 32.7 26.2 39.2





#7

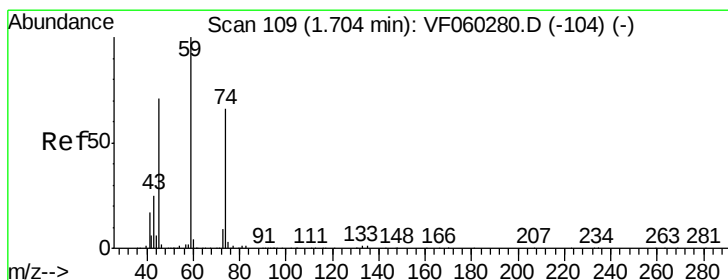
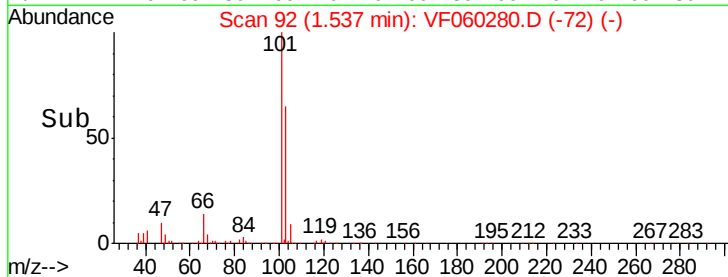
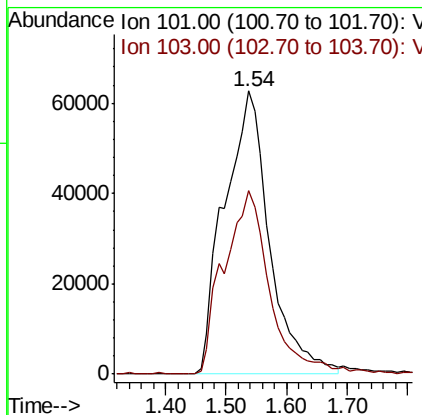
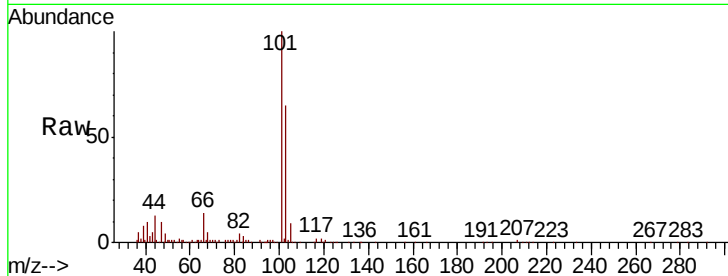
Trichlorofluoromethane  
Concen: 47.23 ug/l  
RT: 1.54 min Scan# 92  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 65.0  | 52.0  | 78.0  |

Manual Integrations  
APPROVED

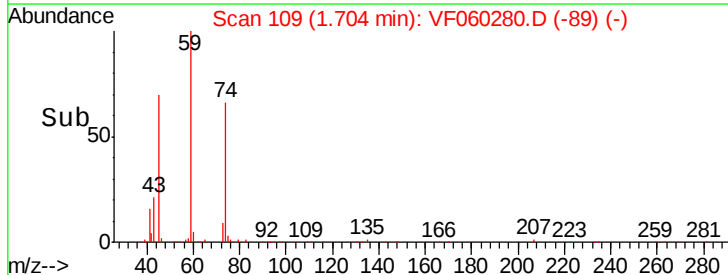
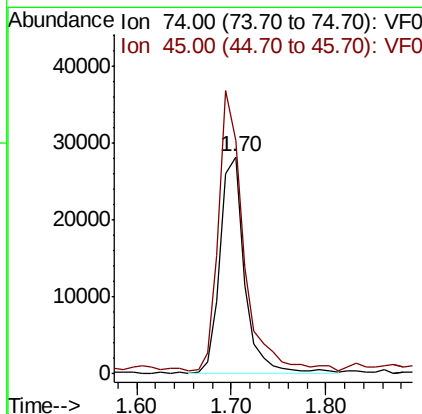
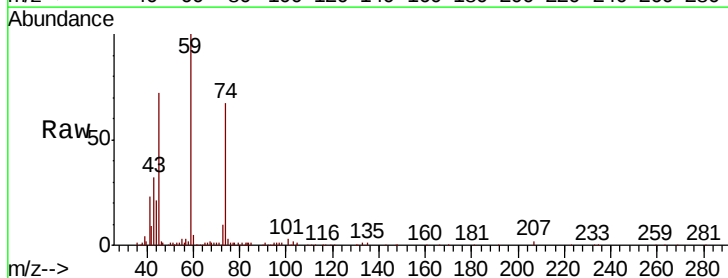
apatel  
9/20/2018 11:54:47 AM

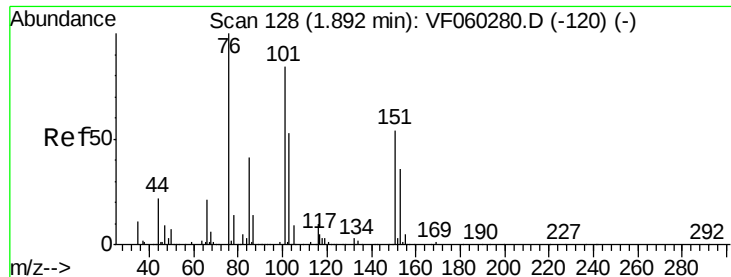


#8

Diethyl Ether  
Concen: 44.14 ug/l  
RT: 1.70 min Scan# 109  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 107.8 | 53.9  | 161.7 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.76 ug/l

RT: 1.89 min Scan# 128

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

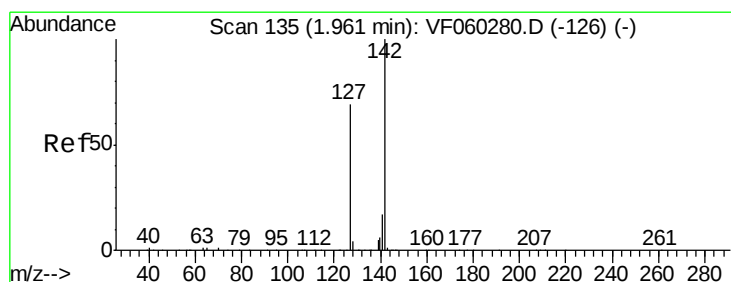
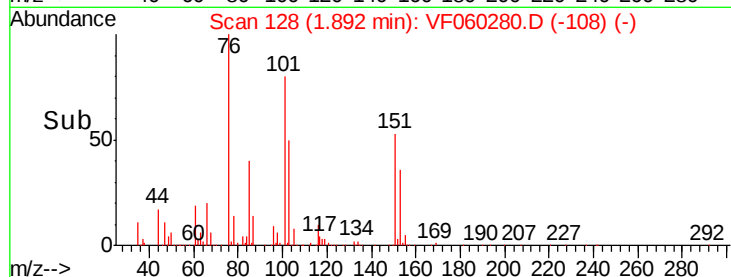
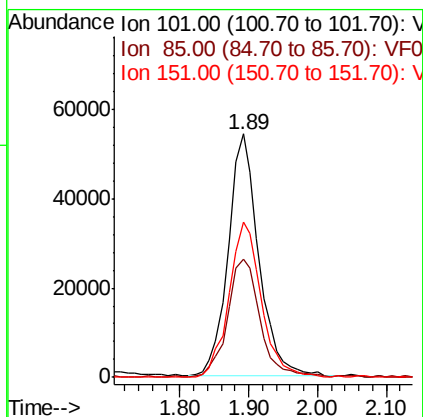
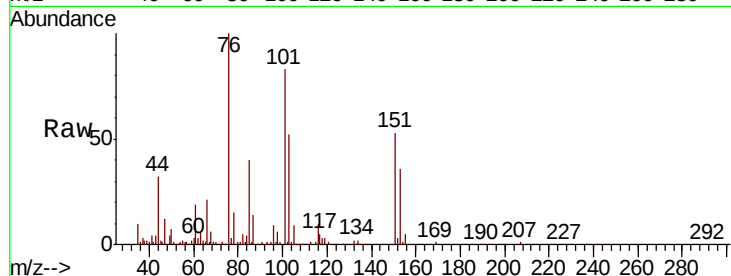
ClientSampleId :

VSTDICCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 167224 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 48.4  | 38.7  | 58.1   |
| 151       | 63.5  | 50.8  | 76.2   |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#10

Methyl Iodide

Concen: 45.32 ug/l

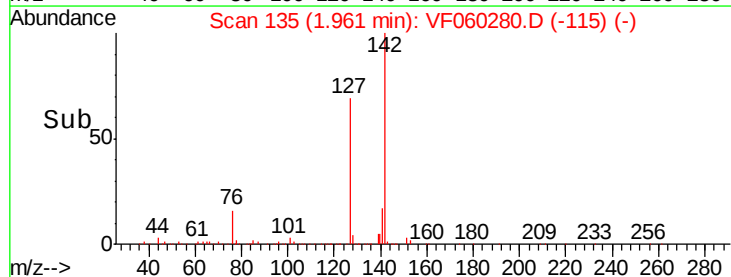
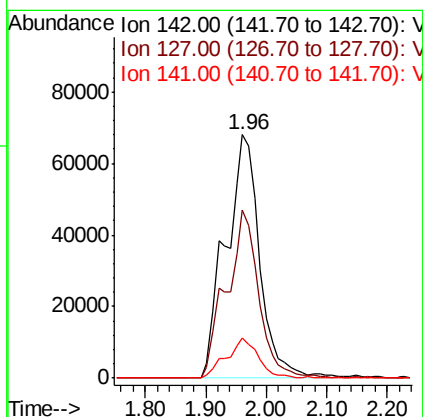
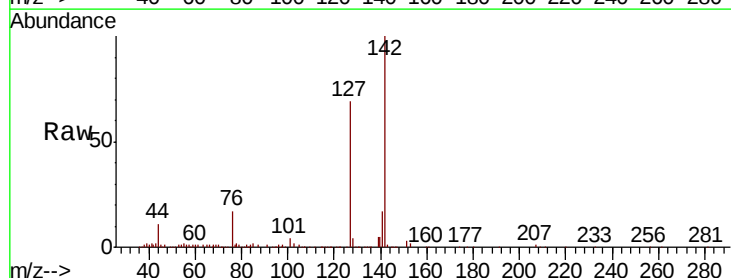
RT: 1.96 min Scan# 135

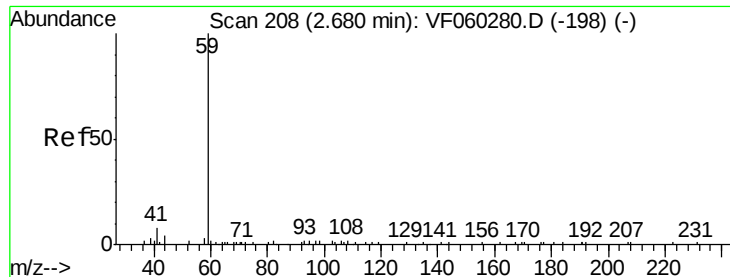
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 267028 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 69.2  | 55.4  | 83.0   |
| 141       | 16.6  | 13.3  | 19.9   |





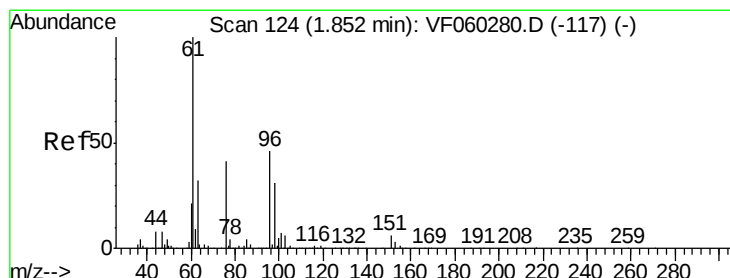
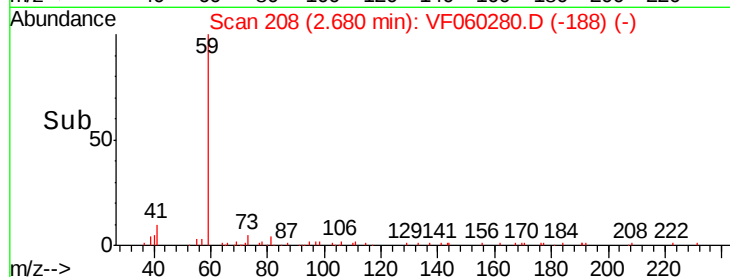
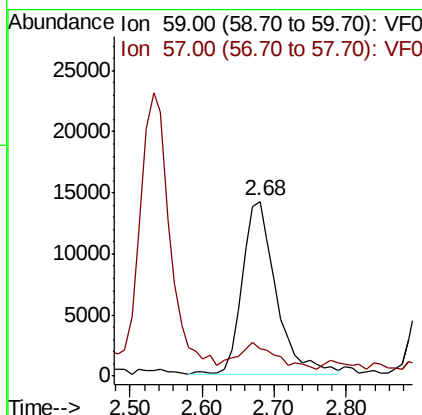
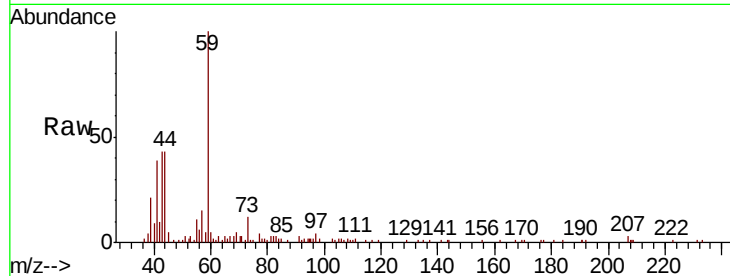
#11  
Tert butyl alcohol  
Concen: 204.94 ug/l  
RT: 2.68 min Scan# 208  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion   | 59   | Resp  | 46718 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 57        | 15.5 | 12.4  | 18.6  |

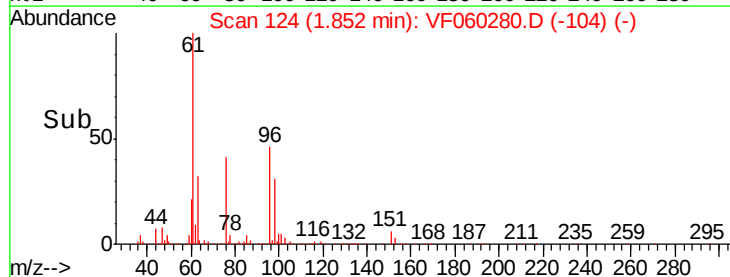
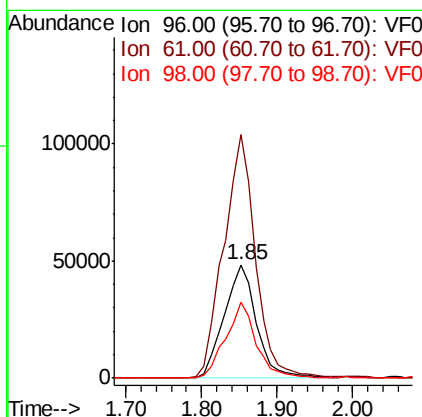
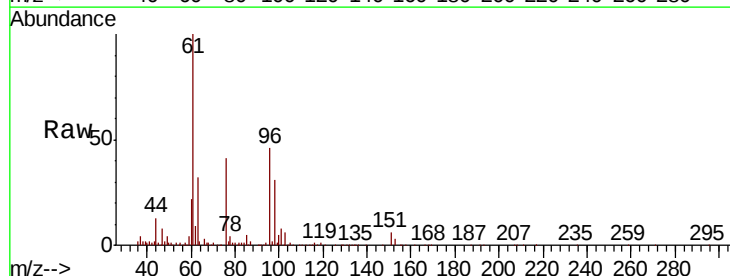
Manual Integrations  
APPROVED

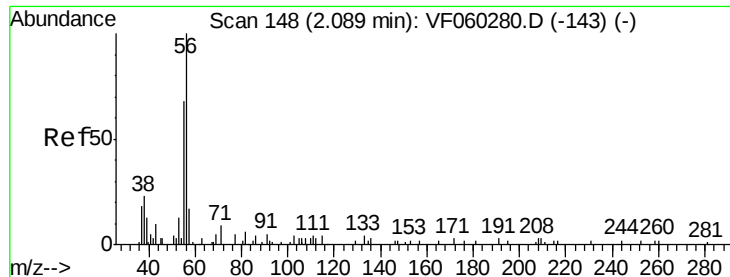
apatel  
9/20/2018 11:54:47 AM



#12  
1,1-Dichloroethene  
Concen: 47.02 ug/l  
RT: 1.85 min Scan# 124  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion   | 96    | Resp  | 142093 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 61        | 215.2 | 172.2 | 258.2  |
| 98        | 67.6  | 54.1  | 81.1   |





#13

Acrolein

Concen: 131.24 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Tot Ion: 56 Resp: 14624

Ion Ratio Lower Upper

56 100

55 87.4 69.9 104.9

Instrument :

MSVOA\_F

ClientSampleId :

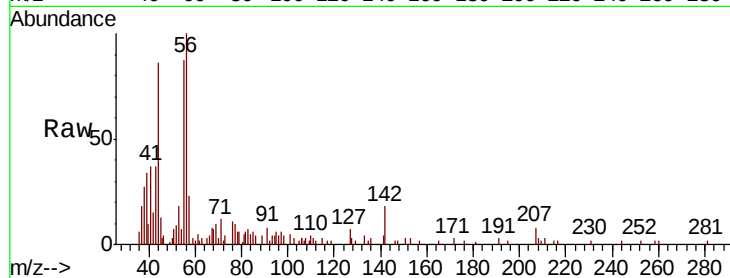
VSTDICCC050

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

8000

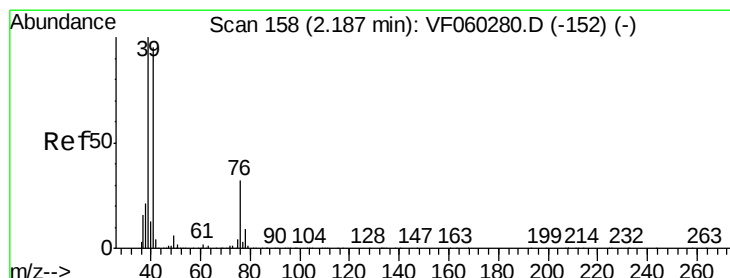
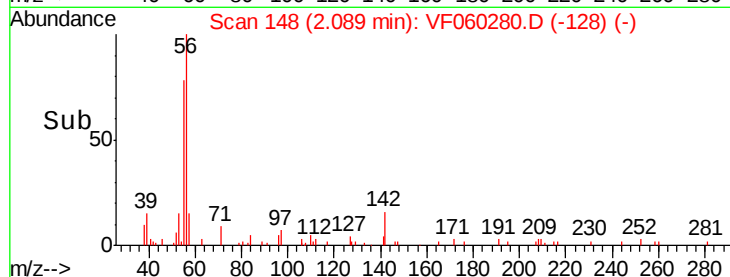
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 47.30 ug/l

RT: 2.19 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

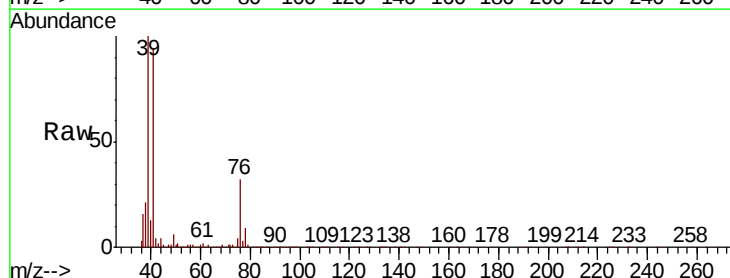
Tgt Ion: 41 Resp: 249438

Ion Ratio Lower Upper

41 100

39 106.0 84.8 127.2

76 34.3 27.4 41.2



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

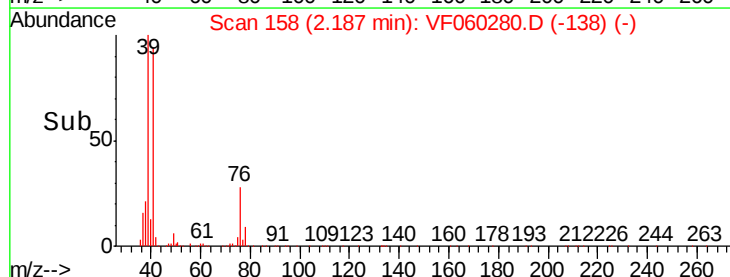
150000

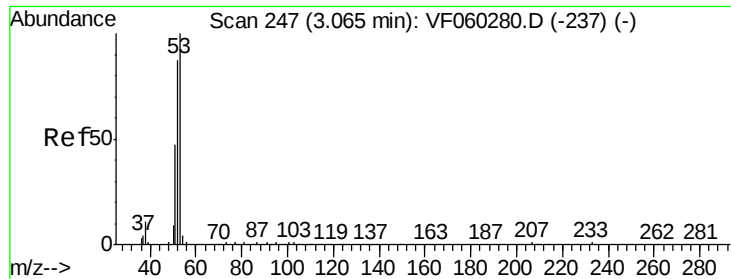
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 225.73 ug/l

RT: 3.06 min Scan# 247

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

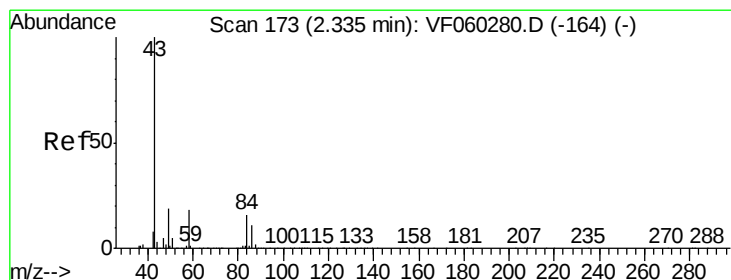
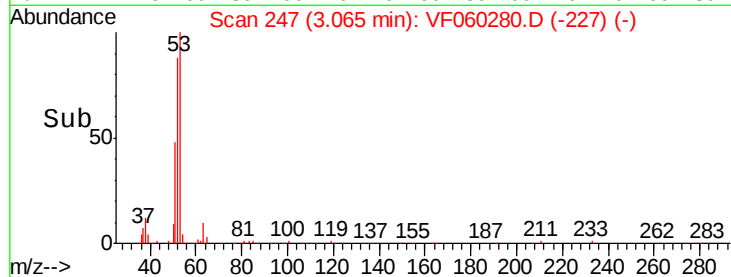
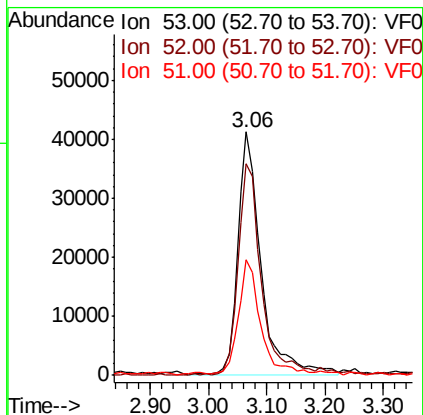
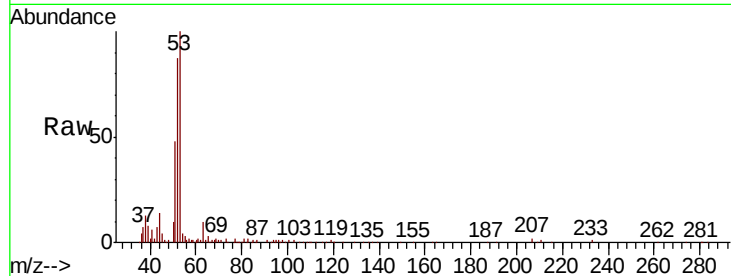
ClientSampleId :

VSTDICCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 114009 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 86.9  | 69.5  | 104.3  |
| 51       | 47.6  | 38.1  | 57.1   |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#16

Acetone

Concen: 237.76 ug/l

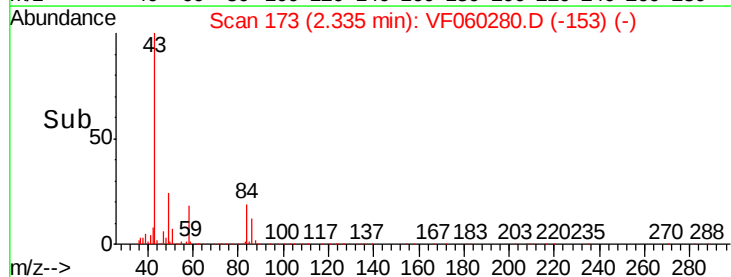
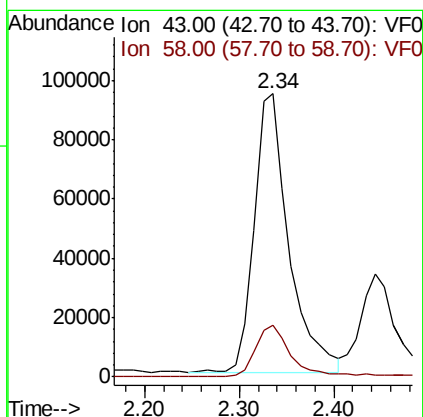
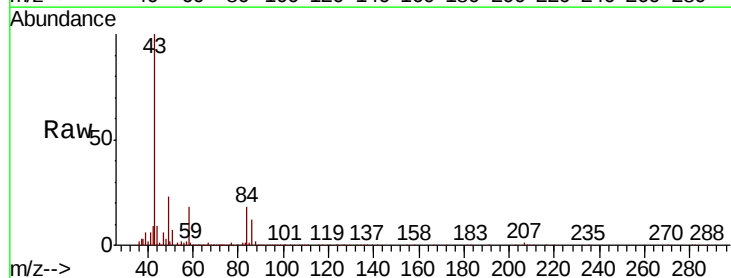
RT: 2.34 min Scan# 173

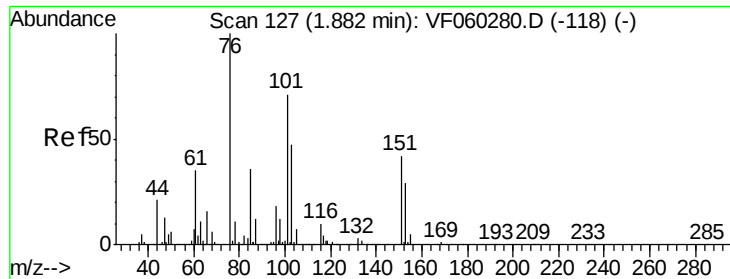
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 239443 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 18.1  | 14.5  | 21.7   |





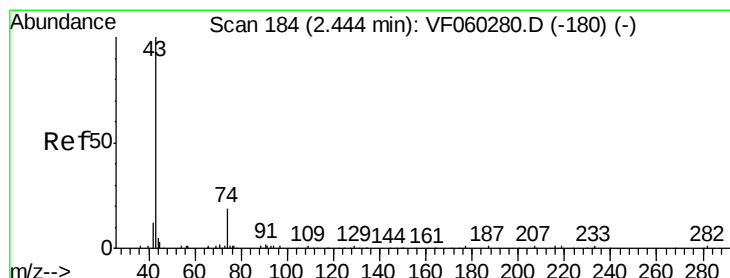
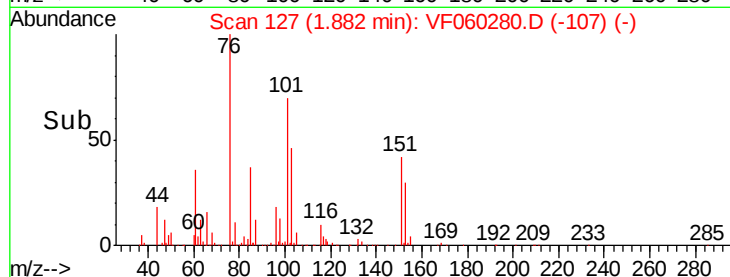
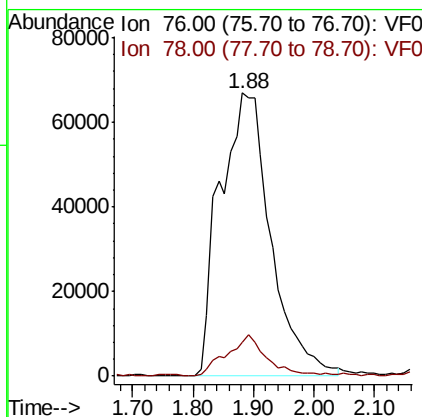
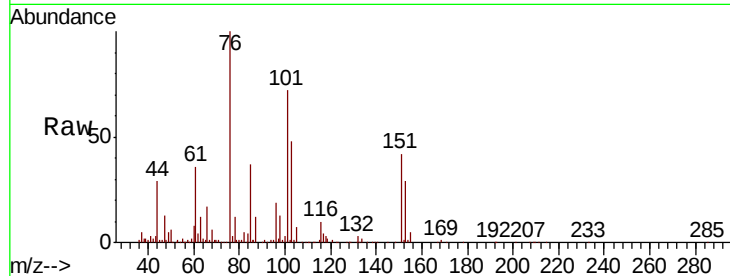
#17  
Carbon Disulfide  
Concen: 42.74 ug/l  
RT: 1.88 min Scan# 127  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Tot Ion: 76 Resp: 389851  
Ion Ratio Lower Upper  
76 100  
78 11.7 9.4 14.0

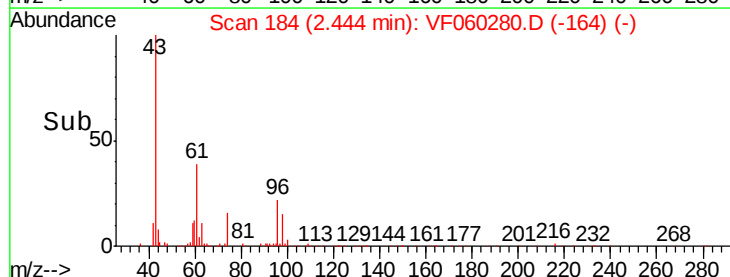
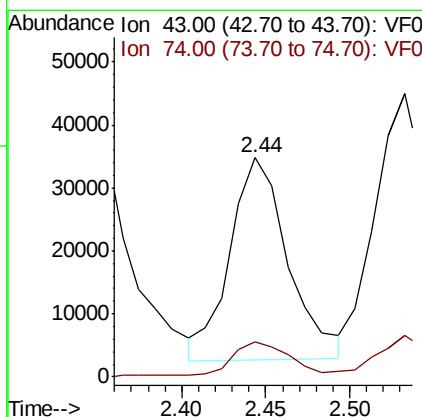
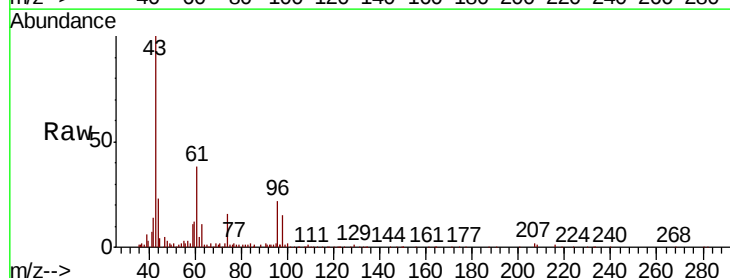
Manual Integrations  
APPROVED

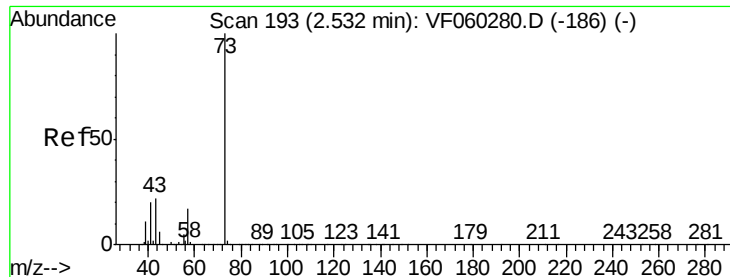
apatel  
9/20/2018 11:54:47 AM



#18  
Methyl Acetate  
Concen: 45.97 ug/l  
RT: 2.44 min Scan# 184  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Tgt Ion: 43 Resp: 77125  
Ion Ratio Lower Upper  
43 100  
74 15.9 12.7 19.1





#19

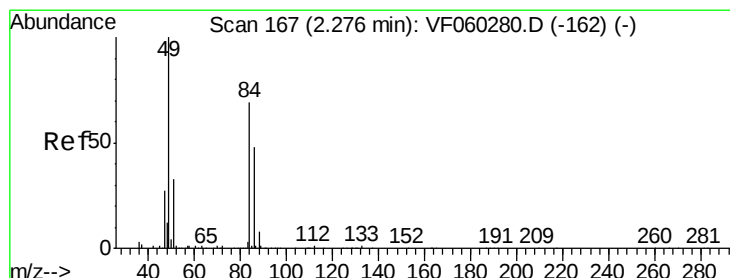
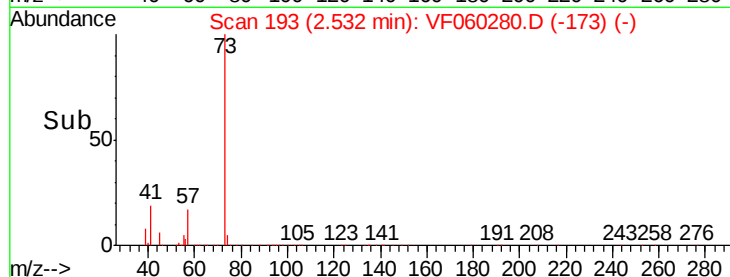
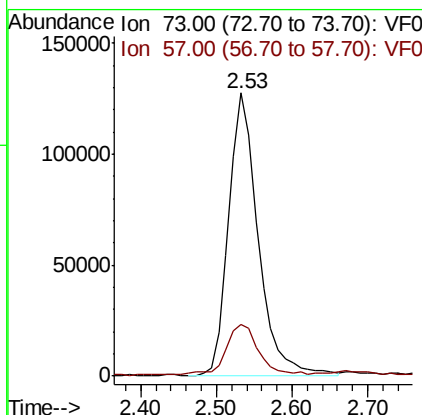
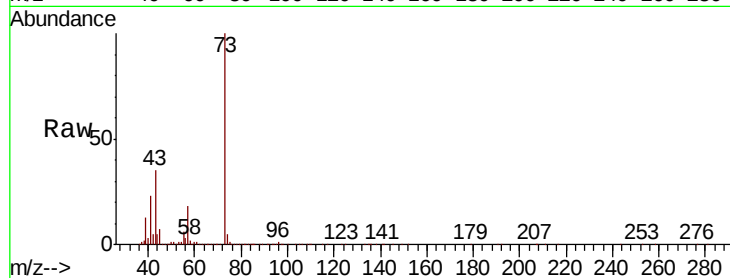
Methyl tert-butyl Ether  
 Concen: 45.94 ug/l  
 RT: 2.53 min Scan# 193  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 18.1  | 14.5  | 21.7  |

Manual Integrations  
 APPROVED

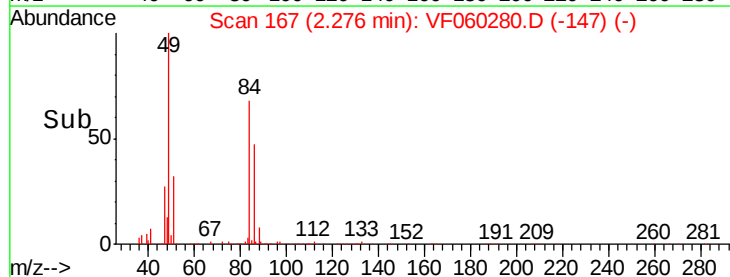
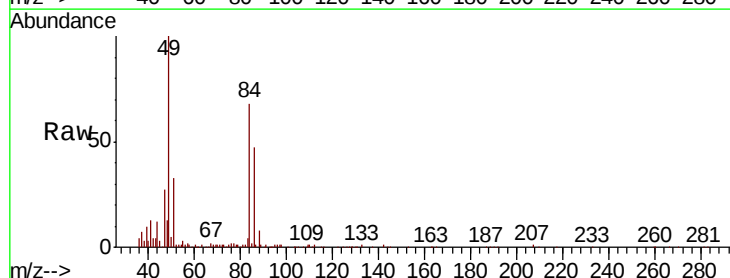
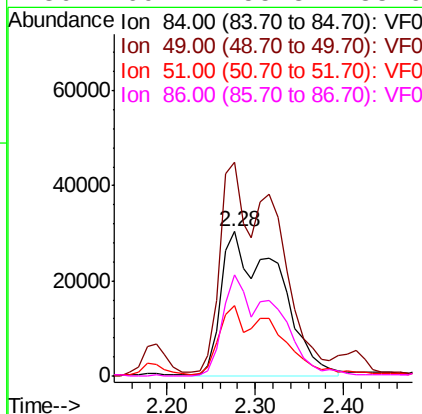
apatel  
 9/20/2018 11:54:47 AM

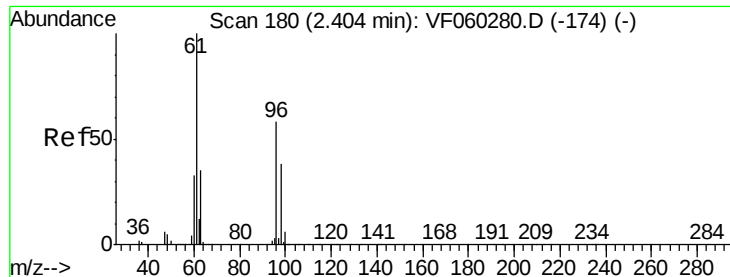


#20

Methylene Chloride  
 Concen: 37.87 ug/l m  
 RT: 2.28 min Scan# 167  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 147.9 | 118.3 | 177.5 |
| 51      | 48.4  | 38.7  | 58.1  |
| 86      | 69.7  | 55.8  | 83.6  |





#21

trans-1,2-Dichloroethene

Concen: 44.23 ug/l

RT: 2.40 min Scan# 180

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

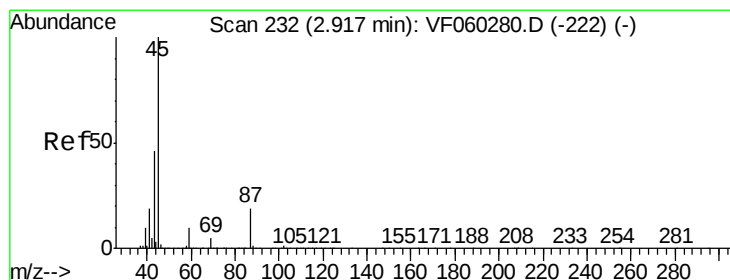
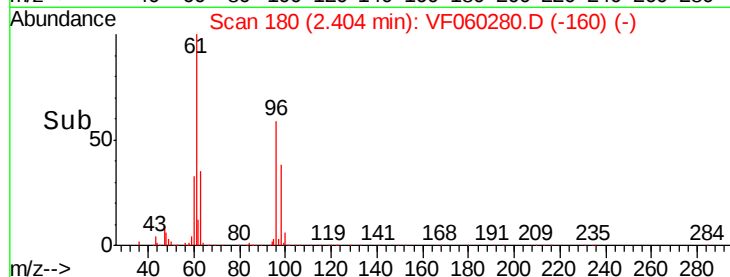
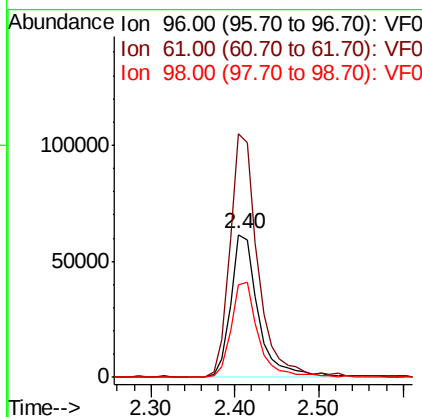
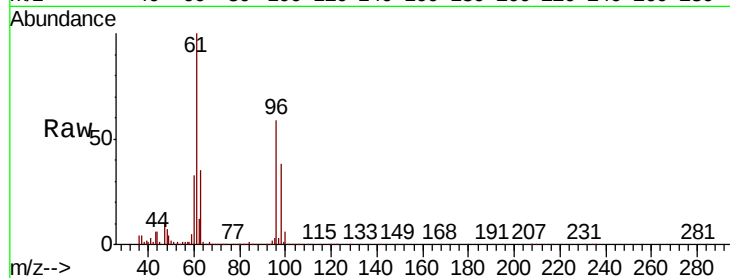
ClientSampled :

VSTDICCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 138067 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 170.5 | 136.4 | 204.6  |
| 98       | 64.7  | 51.8  | 77.6   |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#22

Diisopropyl ether

Concen: 46.36 ug/l

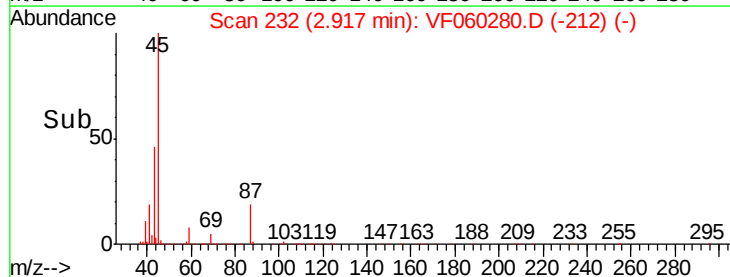
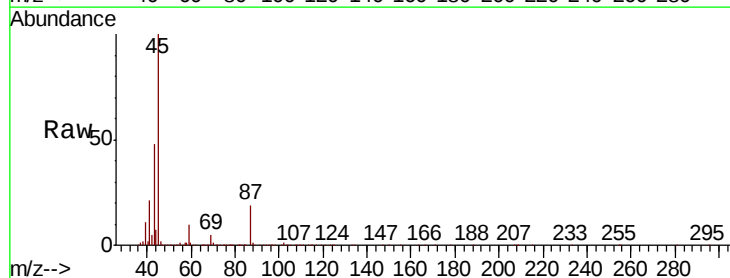
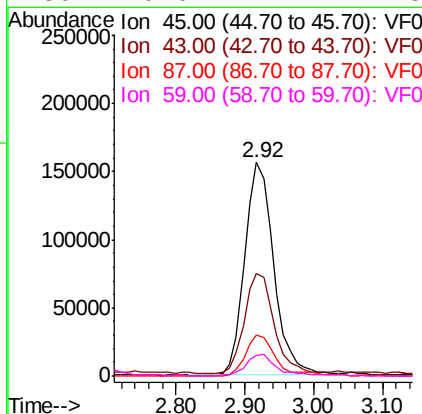
RT: 2.92 min Scan# 232

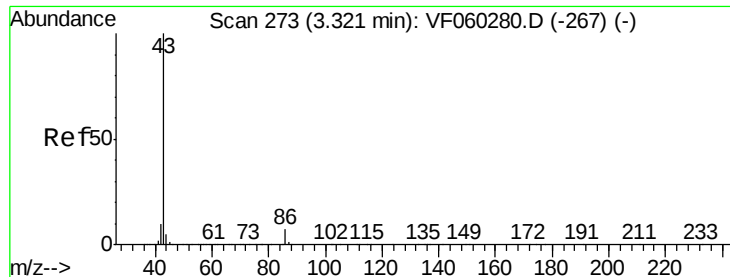
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 461309 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 47.7  | 38.2  | 57.2   |
| 87       | 19.4  | 15.5  | 23.3   |
| 59       | 9.6   | 7.7   | 11.5   |





#23

Vinyl Acetate

Concen: 227.40 ug/l

RT: 3.32 min Scan# 273

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 888697

Ion Ratio Lower Upper

43 100

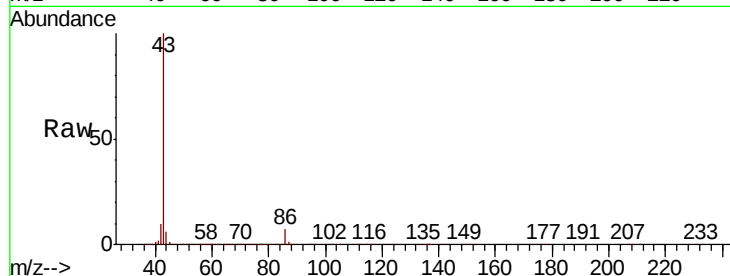
86 7.4 5.9 8.9

Manual Integrations

APPROVED

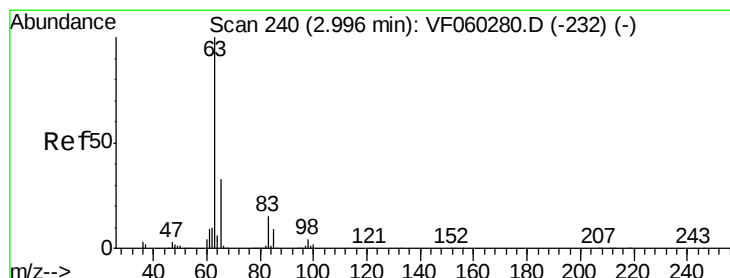
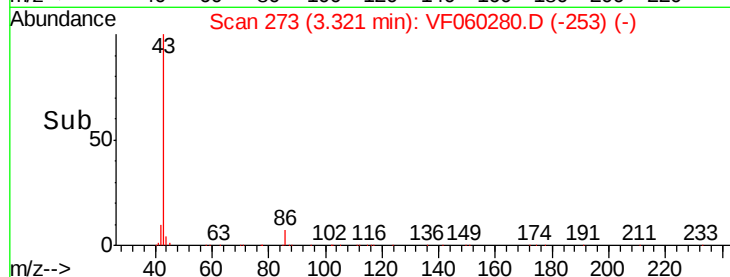
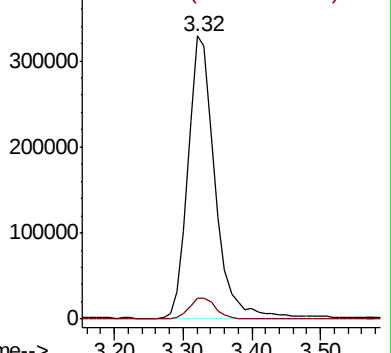
apatel

9/20/2018 11:54:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 43.75 ug/l

RT: 3.00 min Scan# 240

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

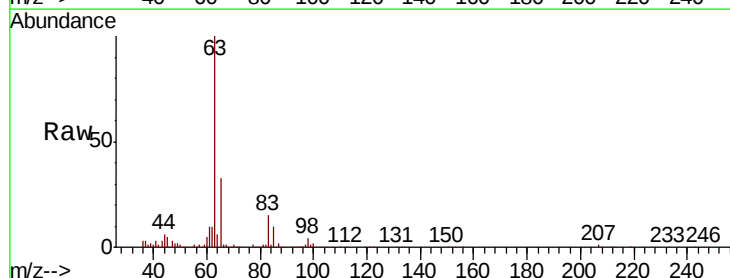
Tgt Ion: 63 Resp: 282320

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.5

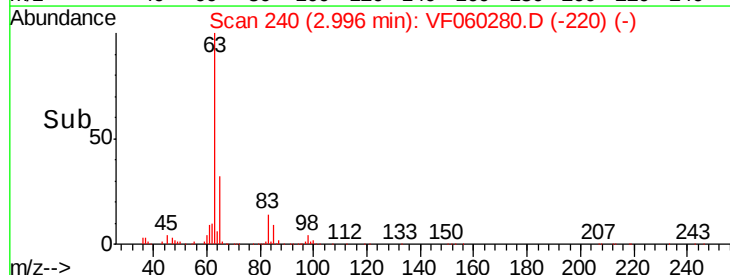
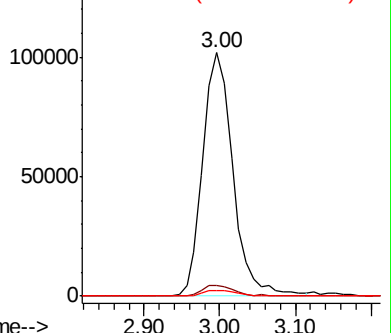
100 2.2 1.1 3.3

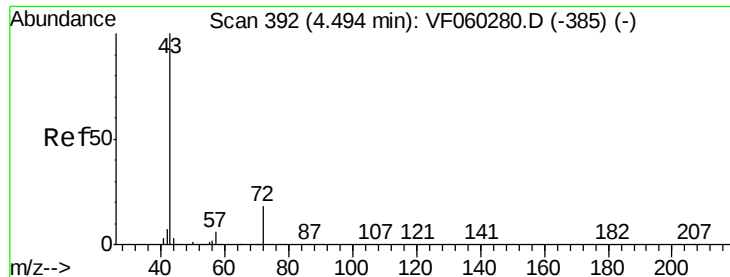


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 244.95 ug/l

RT: 4.49 min Scan# 392

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 332039

Ion Ratio Lower Upper

43 100

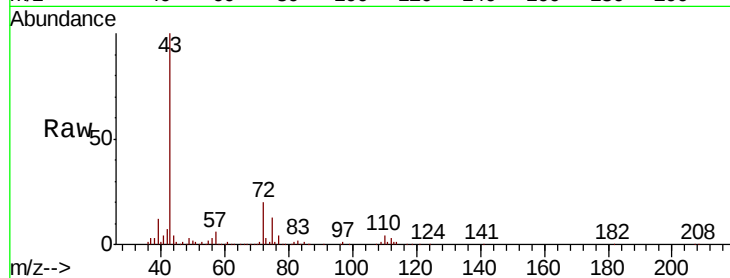
72 20.2 16.2 24.2

Manual Integrations

APPROVED

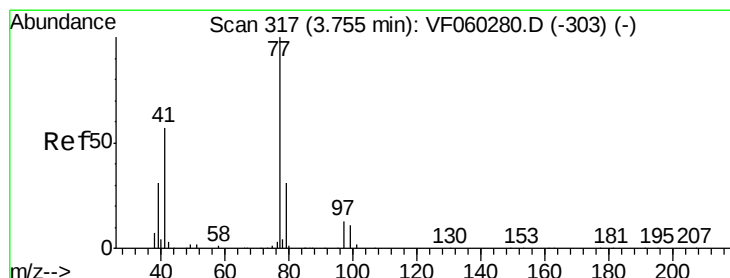
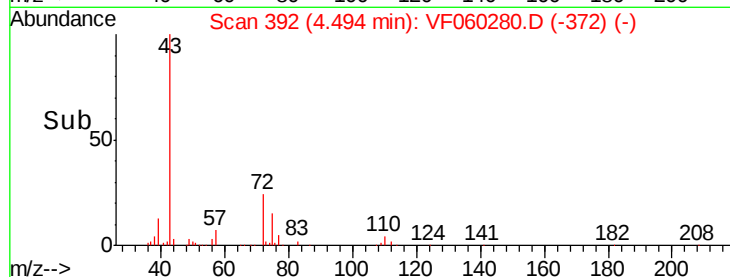
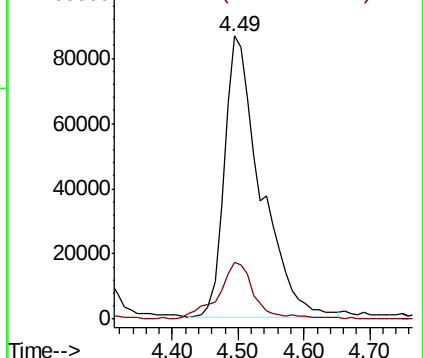
apatel

9/20/2018 11:54:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 48.36 ug/l

RT: 3.75 min Scan# 317

Delta R.T. 0.00 min

Lab File: VF060280.D

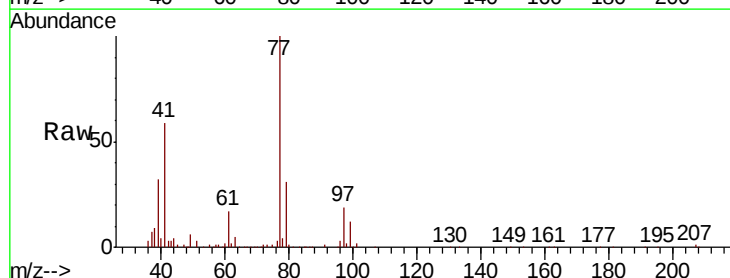
Acq: 19 Sep 2018 14:14

Tgt Ion: 77 Resp: 178053

Ion Ratio Lower Upper

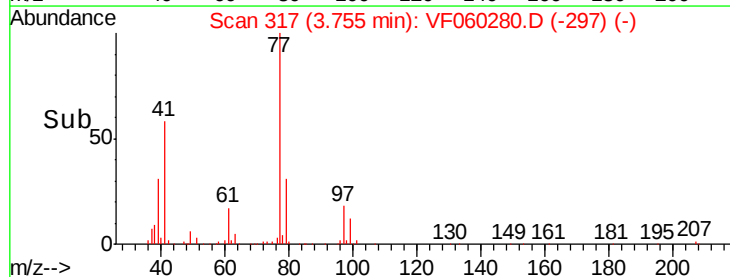
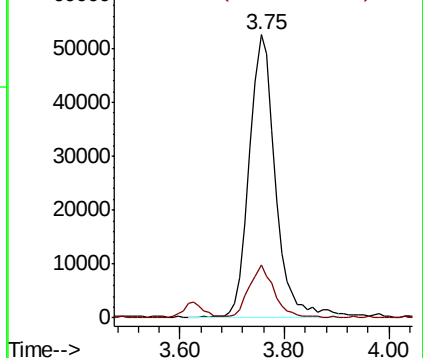
77 100

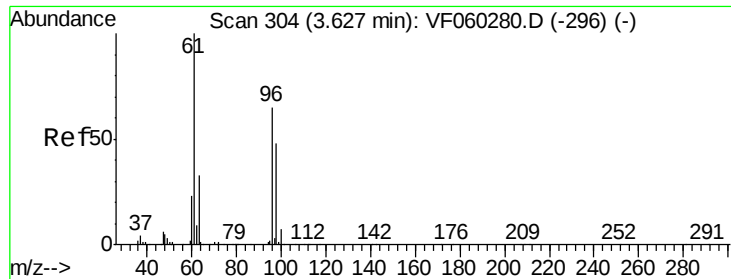
97 18.6 9.3 27.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

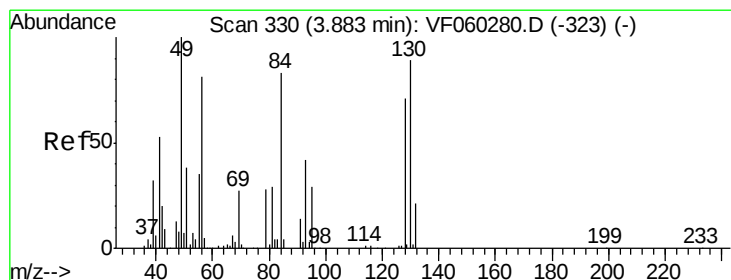
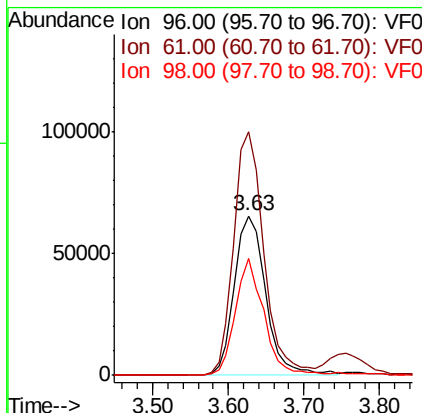
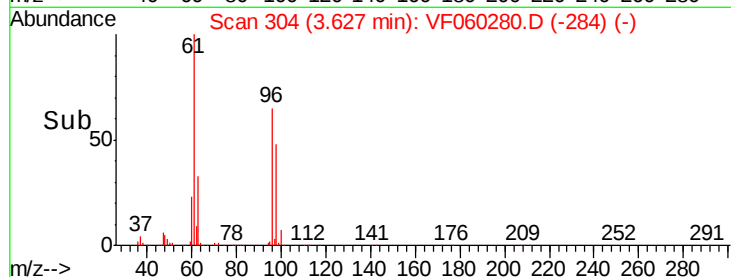
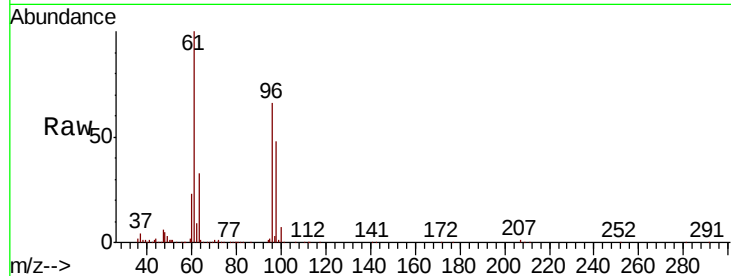
cis-1,2-Dichloroethene  
Concen: 45.49 ug/l  
RT: 3.63 min Scan# 304  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 186539 |       |       |
| 61      | 152.4 | 0.0    | 304.8 |       |
| 98      | 73.2  | 0.0    | 146.4 |       |

Manual Integrations  
APPROVED

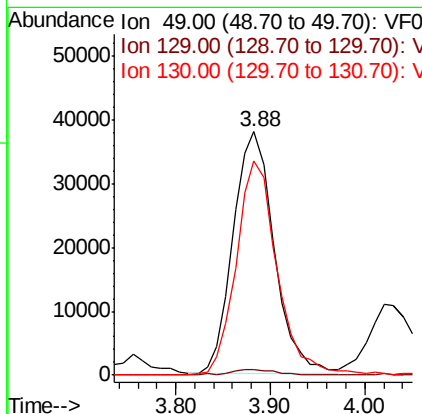
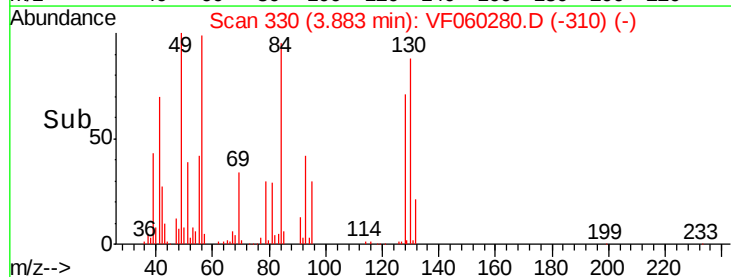
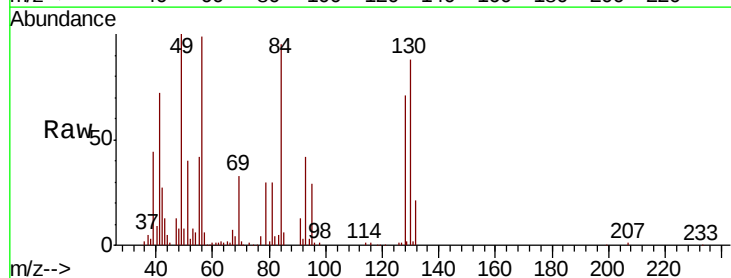
apatel  
9/20/2018 11:54:47 AM

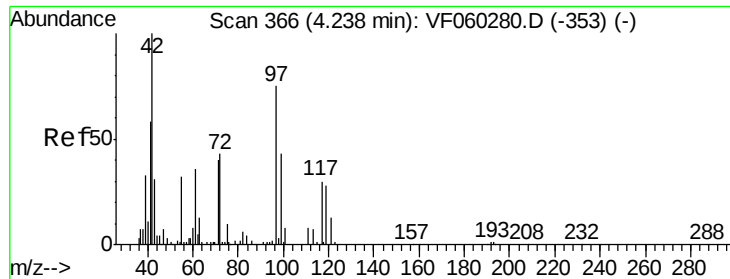


#28

Bromochloromethane  
Concen: 45.42 ug/l  
RT: 3.88 min Scan# 330  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 49      | 100   | 114121 |       |       |
| 129     | 2.1   | 0.0    | 4.2   |       |
| 130     | 87.9  | 70.3   | 105.5 |       |





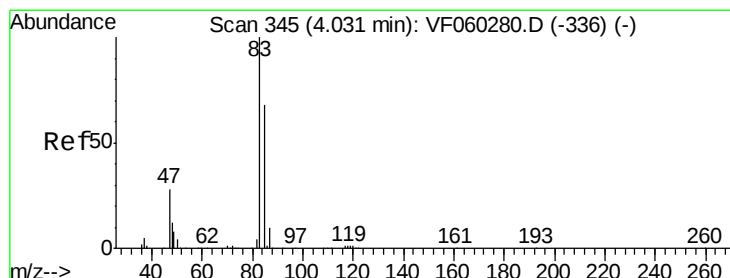
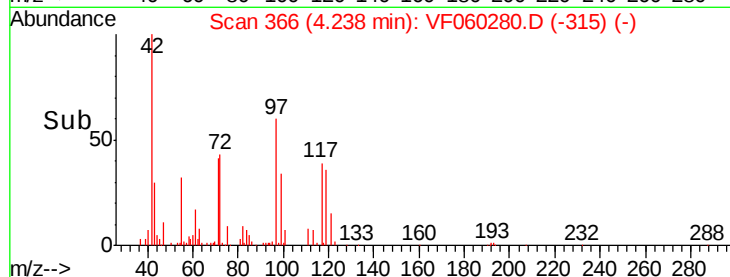
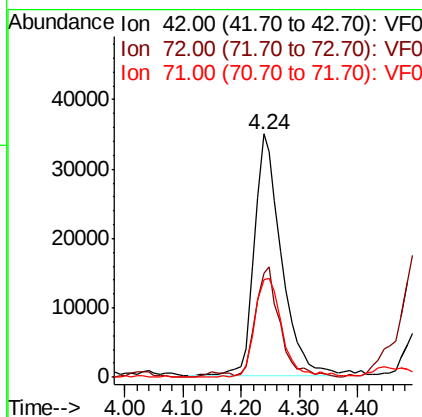
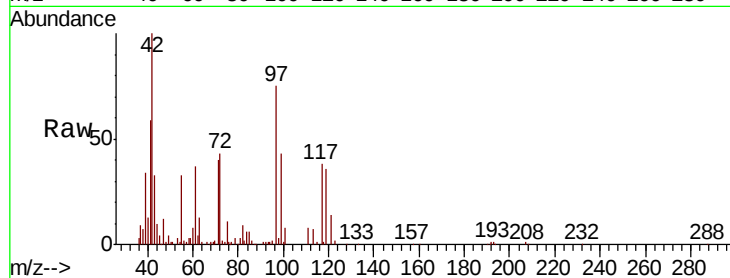
#29  
Tetrahydrofuran  
Concen: 229.88 ug/l  
RT: 4.24 min Scan# 366  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 40.8  | 32.6  | 49.0  |
| 71      | 40.9  | 32.7  | 49.1  |

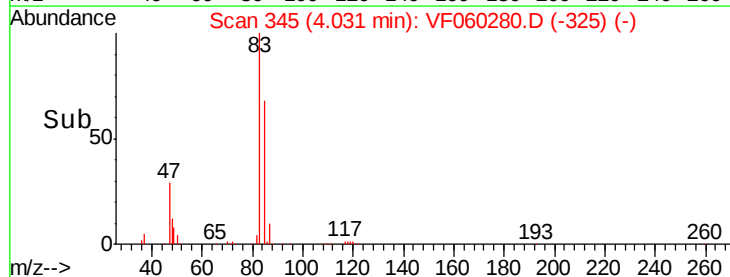
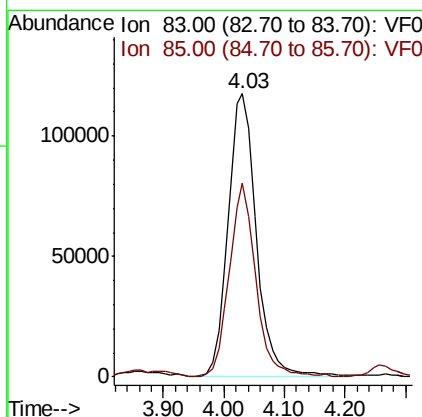
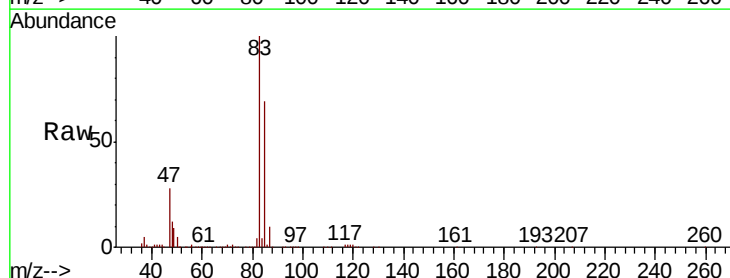
Manual Integrations  
APPROVED

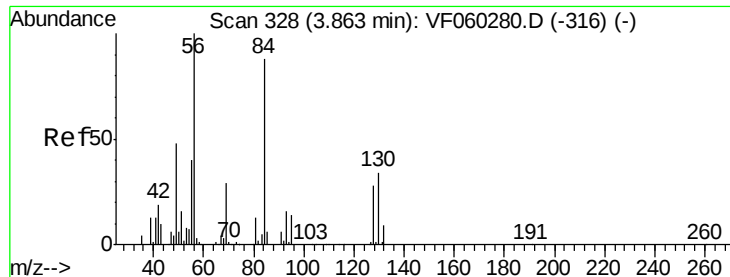
apatel  
9/20/2018 11:54:47 AM



#30  
Chloroform  
Concen: 48.51 ug/l  
RT: 4.03 min Scan# 345  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 68.6  | 54.9  | 82.3  |





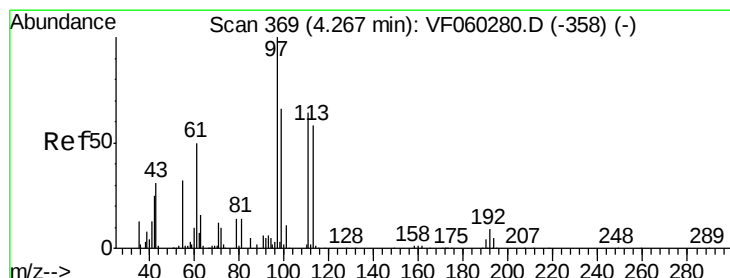
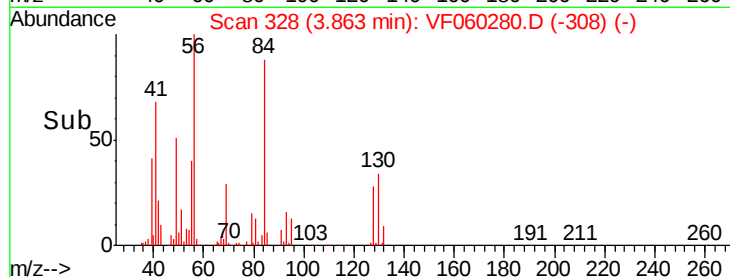
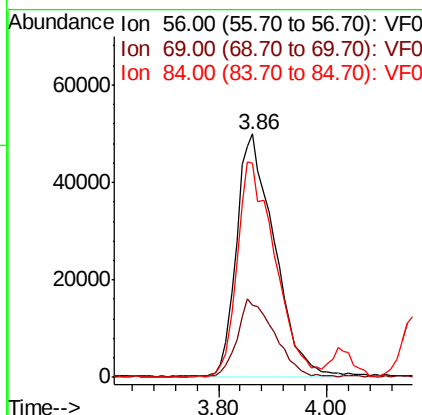
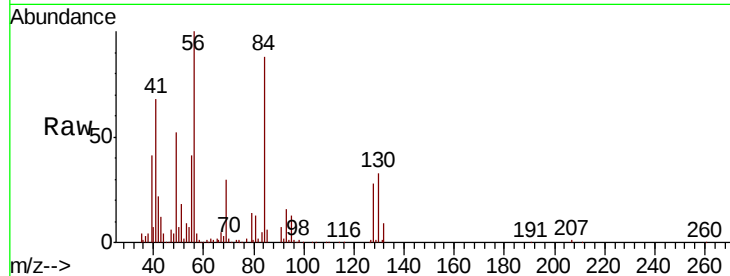
#31  
Cyclohexane  
Concen: 44.44 ug/l  
RT: 3.86 min Scan# 328  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 29.7  | 23.8  | 35.6  |
| 84      | 87.8  | 70.2  | 105.4 |

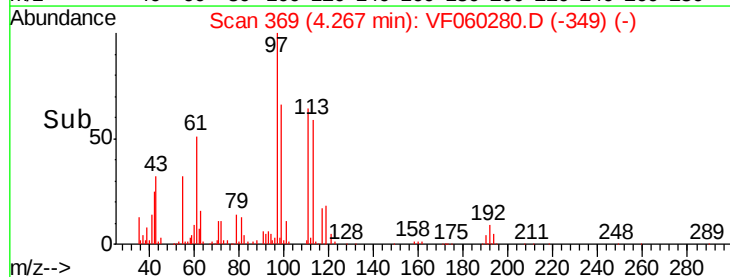
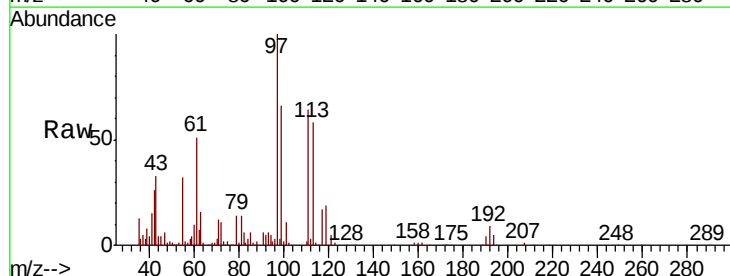
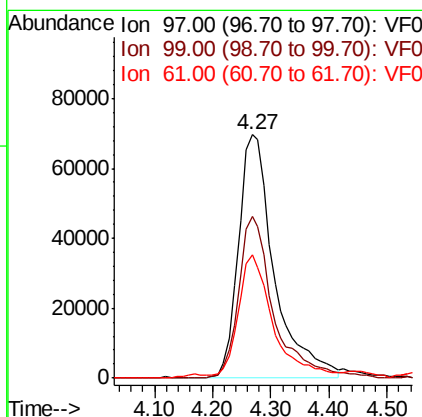
Manual Integrations  
APPROVED

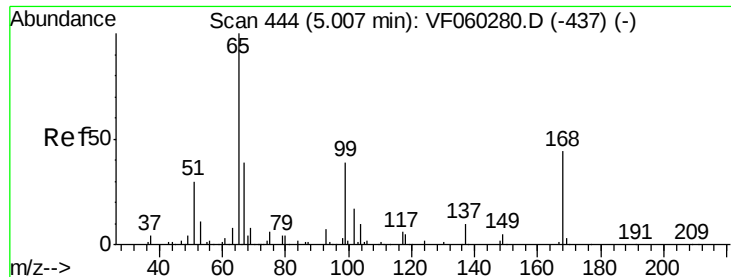
apatel  
9/20/2018 11:54:47 AM



#32  
1,1,1-Trichloroethane  
Concen: 48.62 ug/l  
RT: 4.27 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 66.2  | 53.0  | 79.4  |
| 61      | 50.8  | 40.6  | 61.0  |





#33

1,2-Dichloroethane-d4

Concen: 48.74 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Tot Ion: 65 Resp: 174293

Ion Ratio Lower Upper

65 100

67 47.2 0.0 94.4

Instrument :

MSVOA\_F

ClientSampleId :

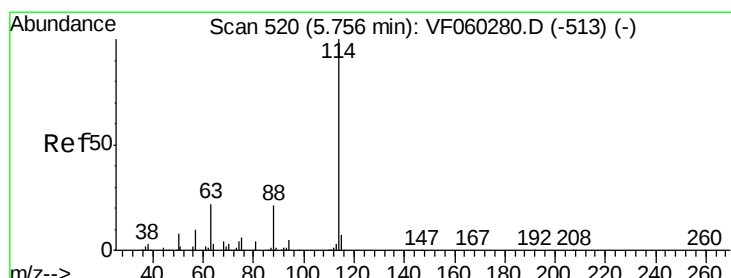
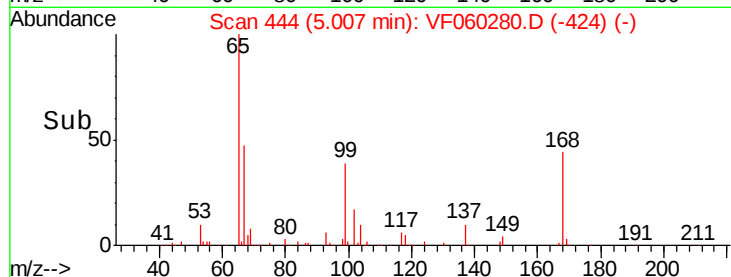
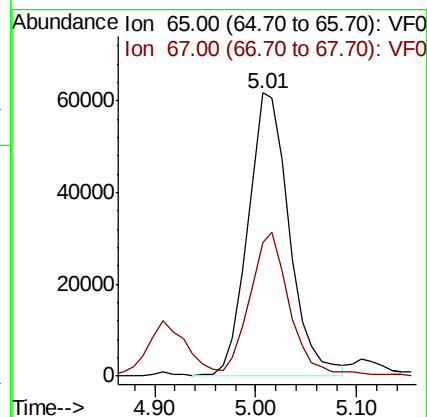
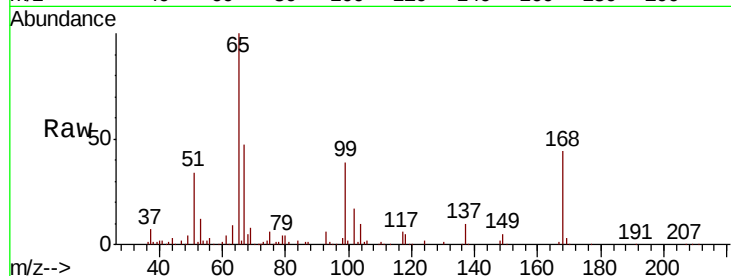
VSTDICCC050

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 520

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

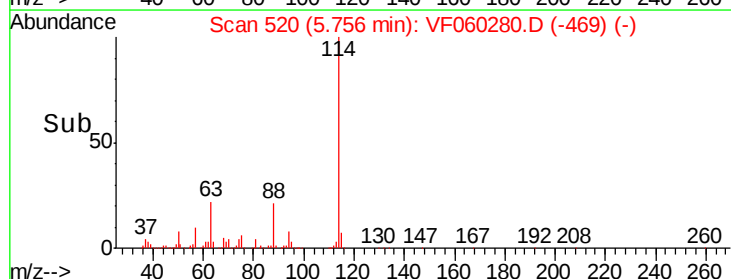
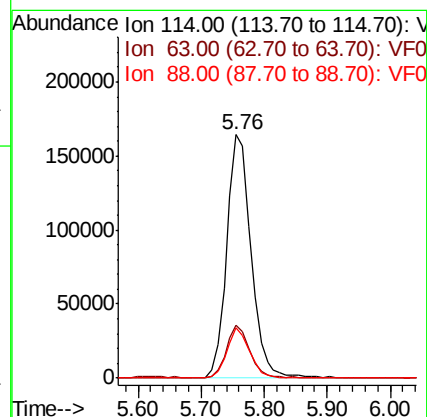
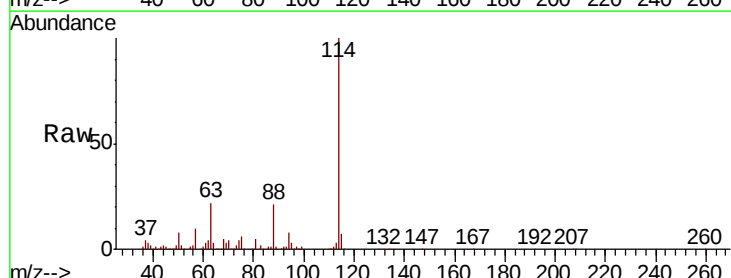
Tgt Ion: 114 Resp: 441875

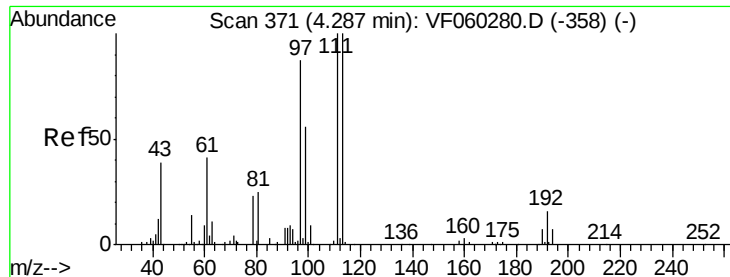
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

88 20.6 0.0 41.2





#35

Dibromofluoromethane

Concen: 48.68 ug/l

RT: 4.29 min Scan# 371

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

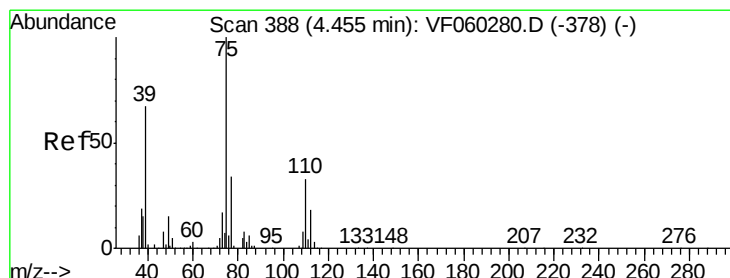
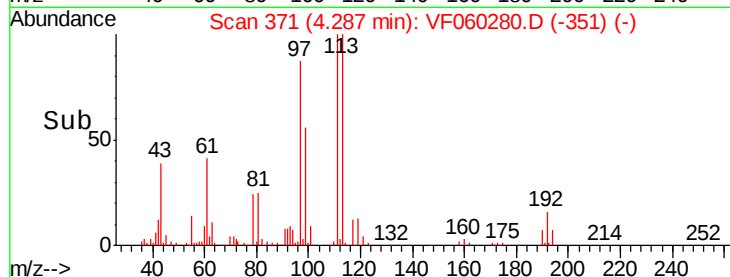
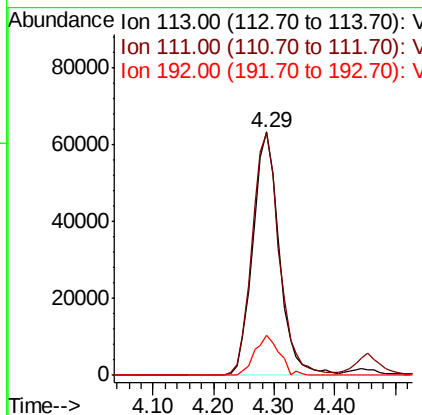
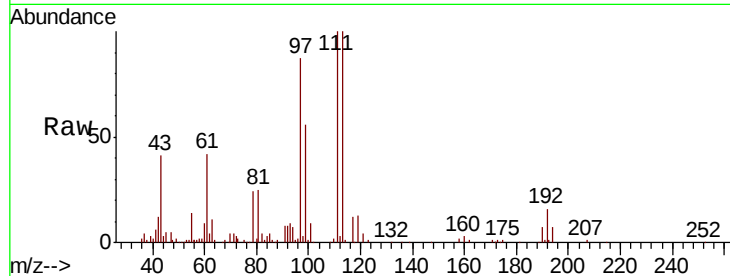
VSTDICCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 191740 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 99.5  | 79.6  | 119.4  |
| 192       | 16.3  | 13.0  | 19.6   |

Manual Integrations  
APPROVED

apatel

9/20/2018 11:54:47 AM



#36

1,1-Dichloropropene

Concen: 47.46 ug/l

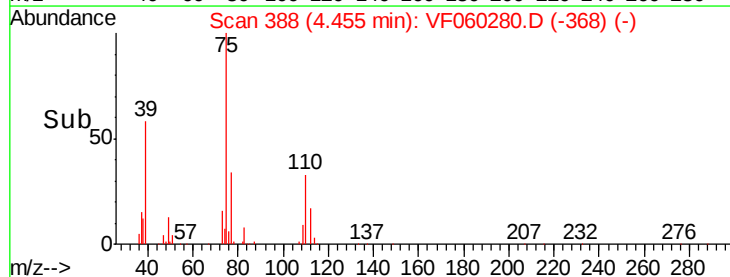
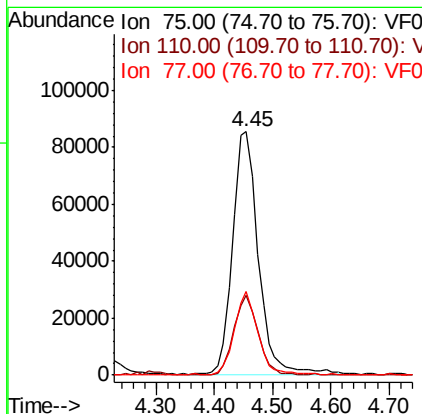
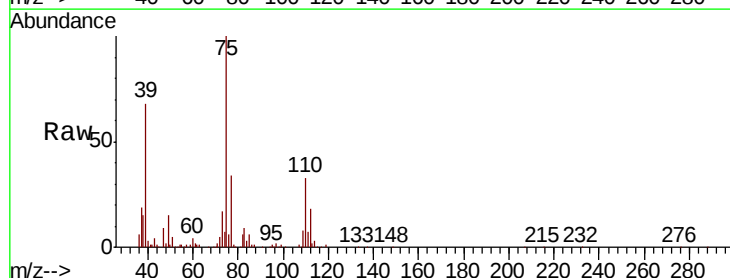
RT: 4.45 min Scan# 388

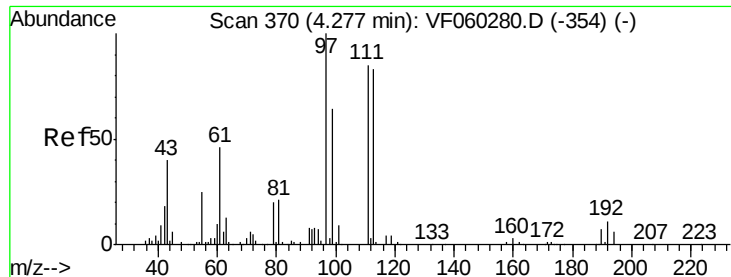
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 261586 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 32.8  | 16.4  | 49.2   |
| 77        | 34.1  | 27.3  | 40.9   |





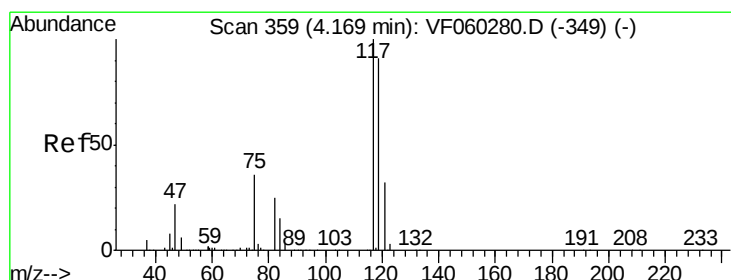
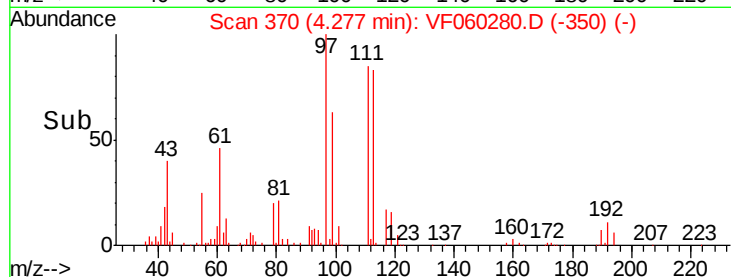
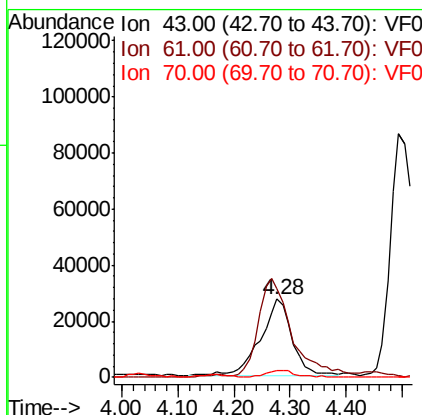
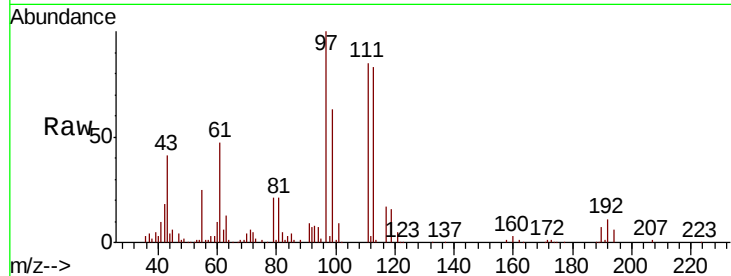
#37  
Ethyl Acetate  
Concen: 46.73 ug/l  
RT: 4.28 min Scan# 370  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 113.9 | 91.1  | 136.7 |
| 70      | 8.6   | 6.9   | 10.3  |

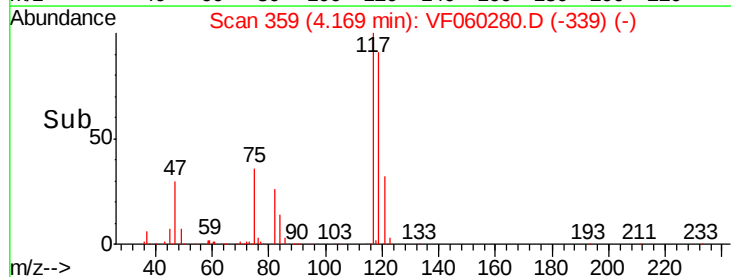
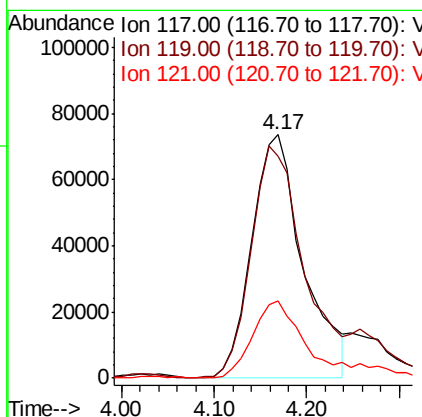
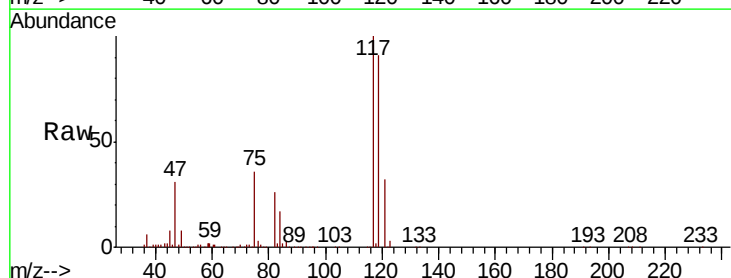
Manual Integrations  
APPROVED

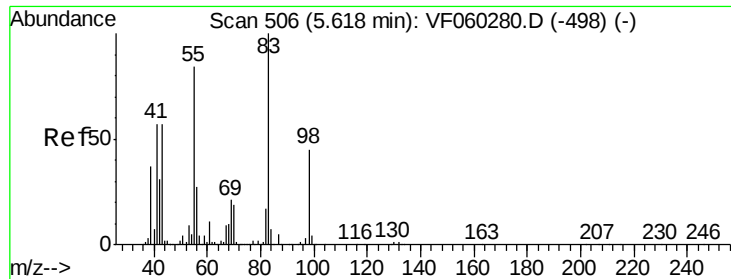
apatel  
9/20/2018 11:54:47 AM



#38  
Carbon Tetrachloride  
Concen: 45.14 ug/l m  
RT: 4.17 min Scan# 359  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 91.3  | 73.0  | 109.6 |
| 121     | 31.8  | 25.4  | 38.2  |





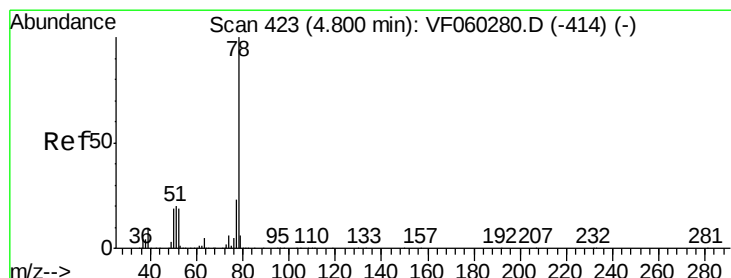
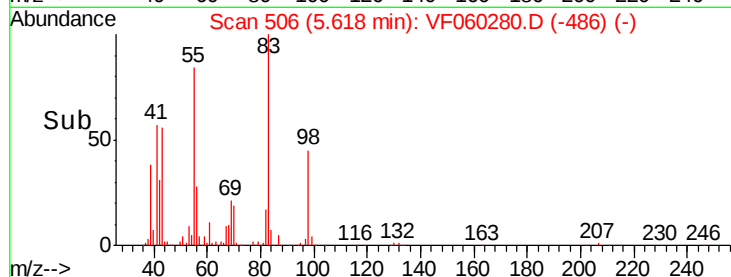
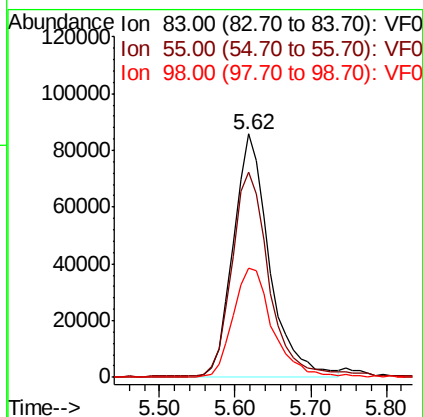
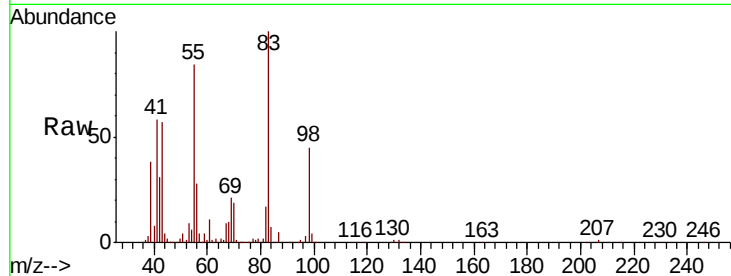
#39  
Methvlcvclohexane  
Concen: 47.79 ug/l  
RT: 5.62 min Scan# 506  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 84.1  | 67.3  | 100.9 |
| 98      | 45.1  | 36.1  | 54.1  |

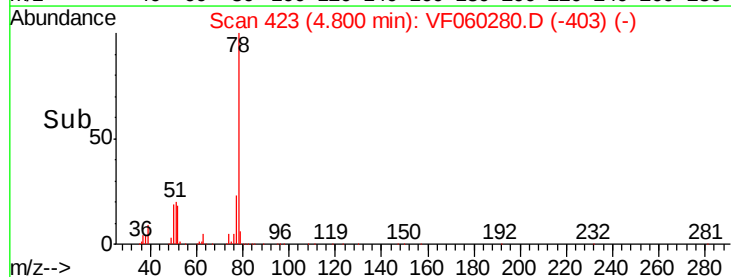
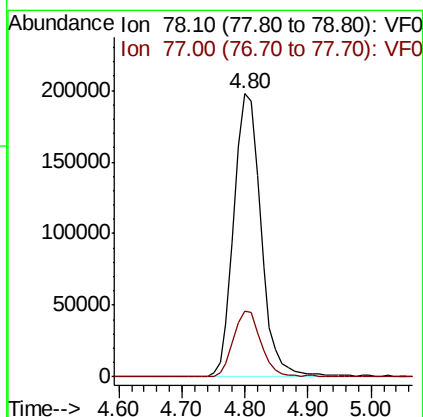
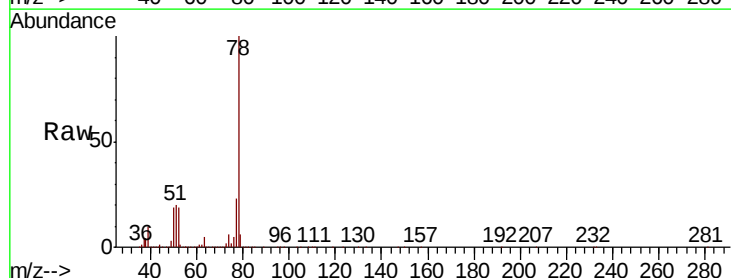
Manual Integrations  
APPROVED

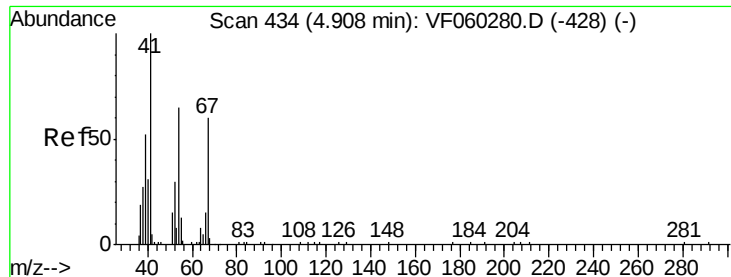
apatel  
9/20/2018 11:54:47 AM



#40  
Benzene  
Concen: 47.27 ug/l  
RT: 4.80 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.0  | 18.4  | 27.6  |





#41

Methacrylonitrile

Concen: 48.33 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.00 min

Lab File: VF060280.D

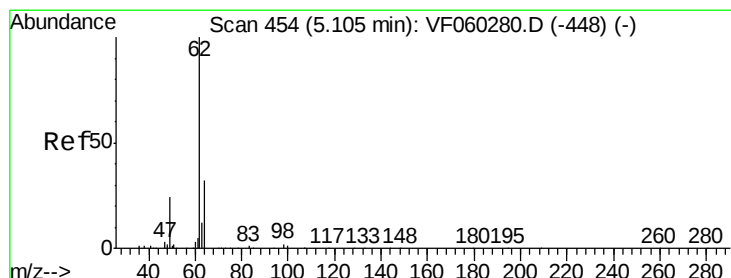
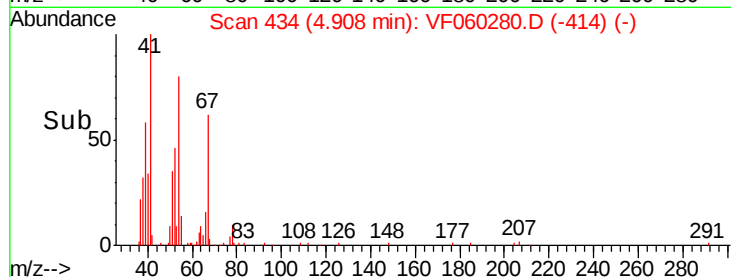
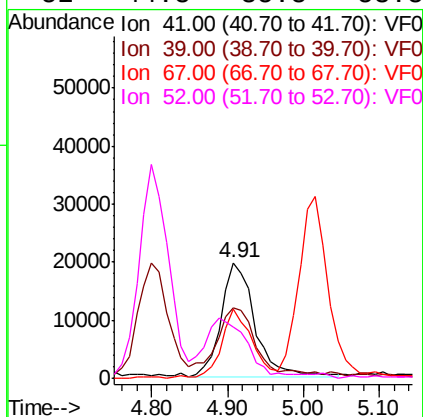
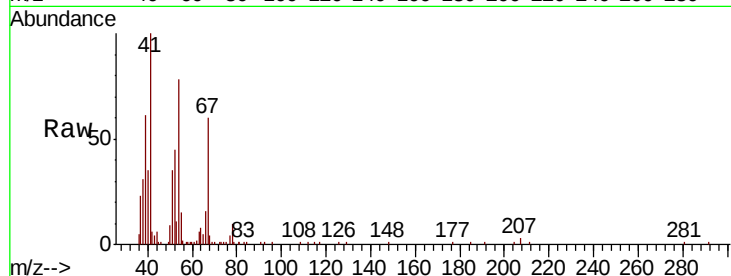
Acq: 19 Sep 2018 14:14

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 41      | 100  |       | 61155 |       |       |
| 39      | 61.4 | 49.1  | 73.7  |       |       |
| 67      | 60.3 | 48.2  | 72.4  |       |       |
| 52      | 44.8 | 35.8  | 53.8  |       |       |

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#42

1,2-Dichloroethane

Concen: 47.44 ug/l

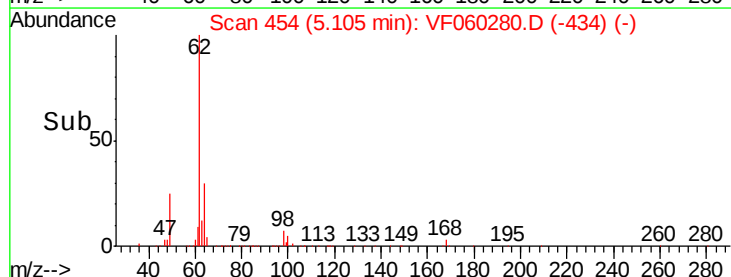
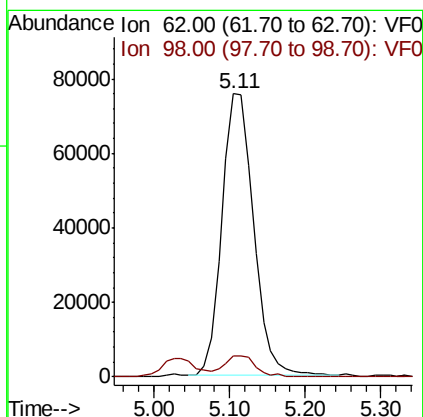
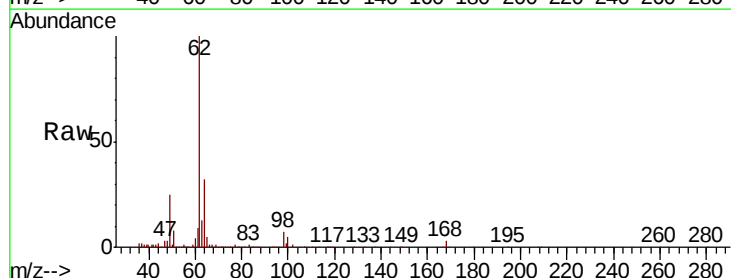
RT: 5.11 min Scan# 454

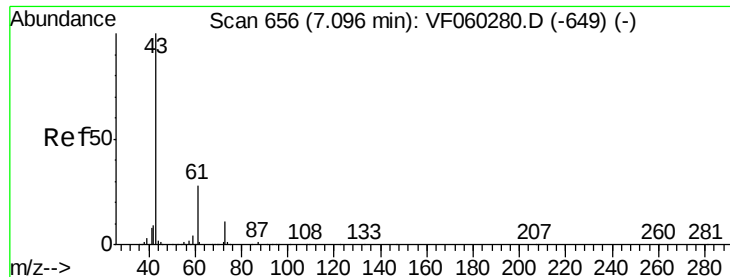
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 62      | 100 |       | 218252 |       |       |
| 98      | 7.2 | 0.0   | 14.4   |       |       |





#43

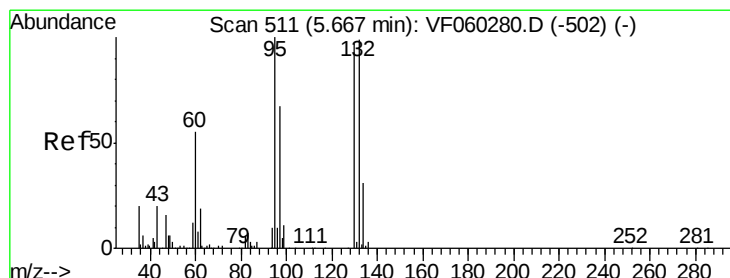
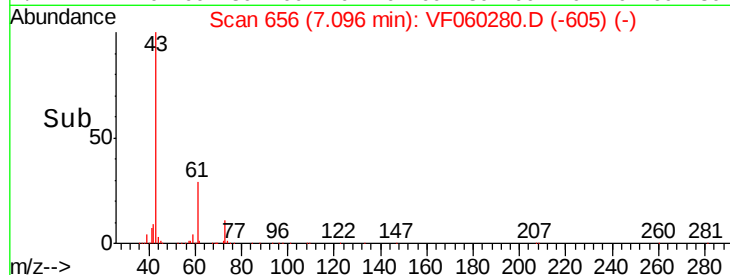
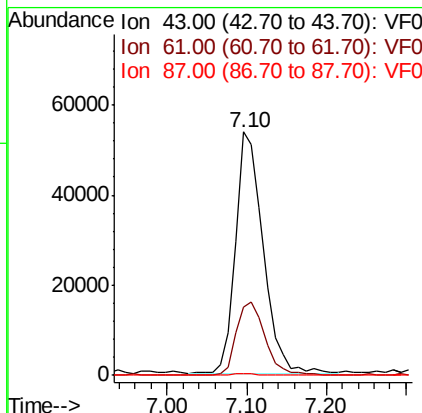
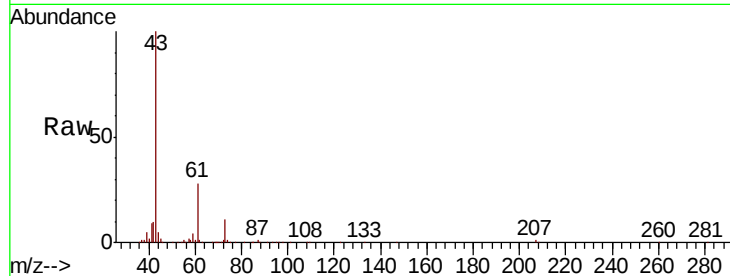
Isopropyl Acetate  
 Concen: 46.08 ug/l  
 RT: 7.10 min Scan# 656  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 28.0  | 22.4  | 33.6  |
| 87      | 0.7   | 0.6   | 0.8   |

Manual Integrations  
 APPROVED

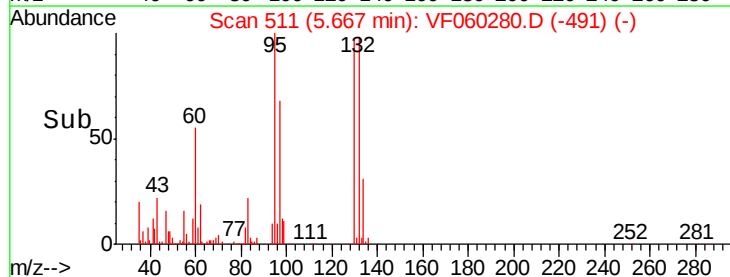
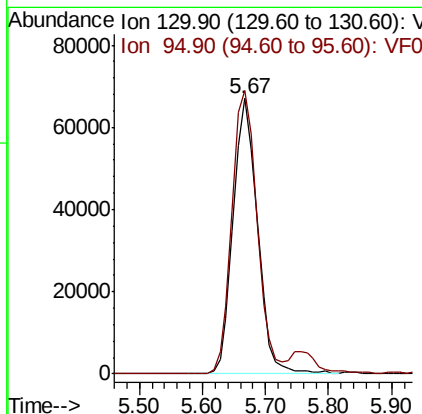
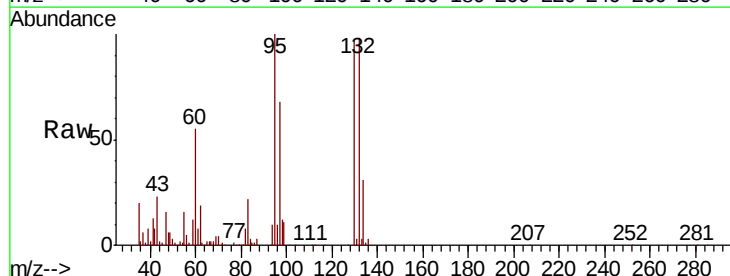
apatel  
 9/20/2018 11:54:47 AM

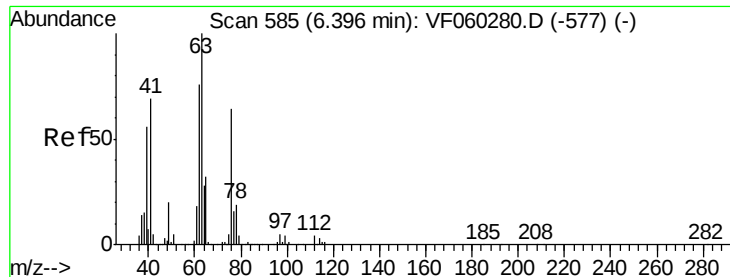


#44

Trichloroethene  
 Concen: 48.31 ug/l  
 RT: 5.67 min Scan# 511  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 102.8 | 0.0   | 205.6 |





#45

1,2-Dichloropropane

Concen: 47.90 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 63 Resp: 154929

Ion Ratio Lower Upper

63 100

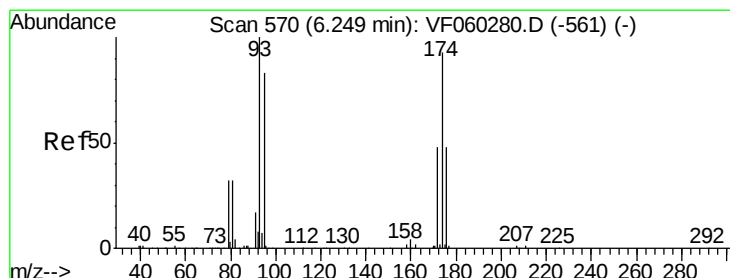
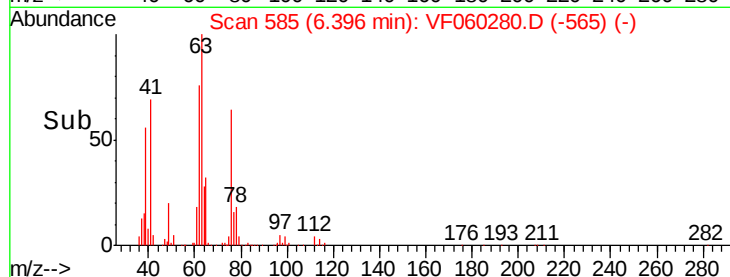
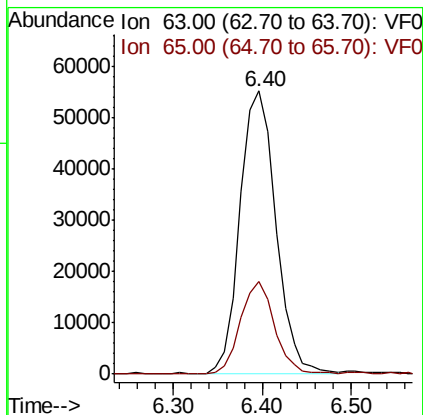
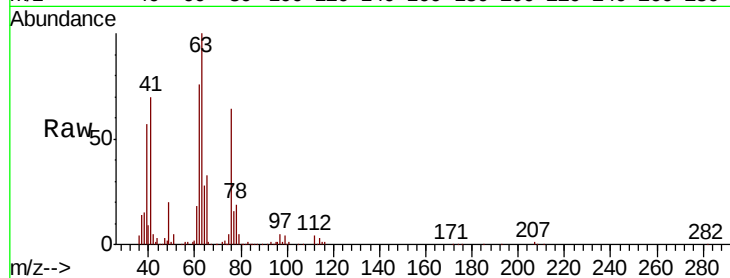
65 32.8 26.2 39.4

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#46

Dibromomethane

Concen: 48.04 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

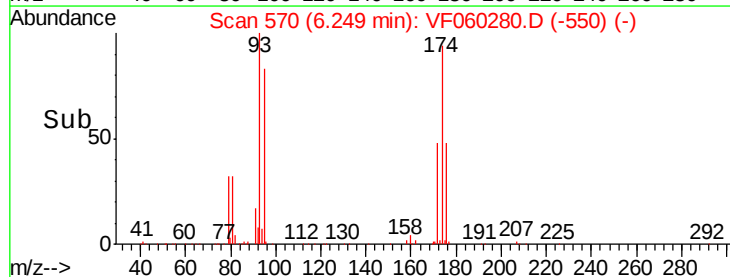
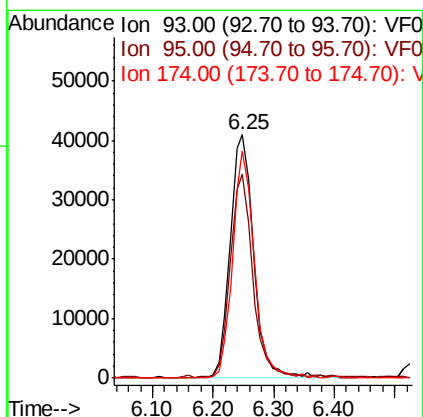
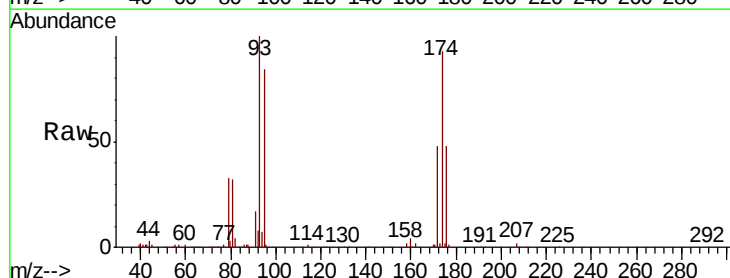
Tgt Ion: 93 Resp: 111059

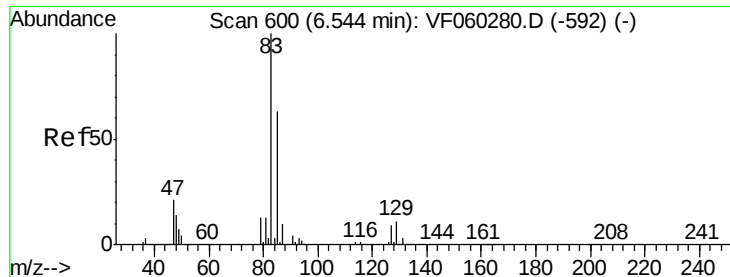
Ion Ratio Lower Upper

93 100

95 83.8 67.0 100.6

174 93.5 74.8 112.2





#47

Bromodichloromethane

Concen: 47.78 ug/l

RT: 6.54 min Scan# 600

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

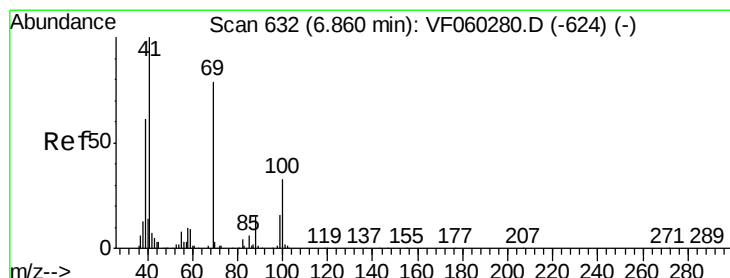
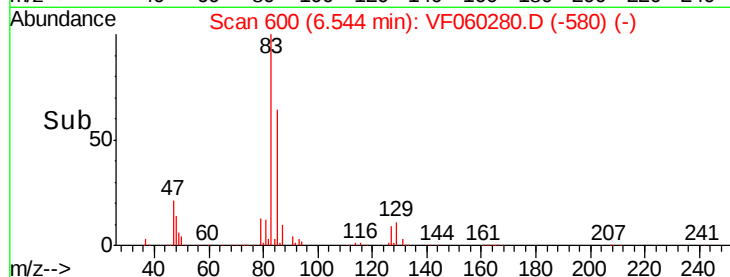
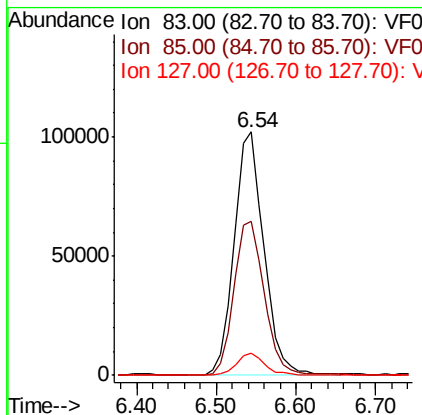
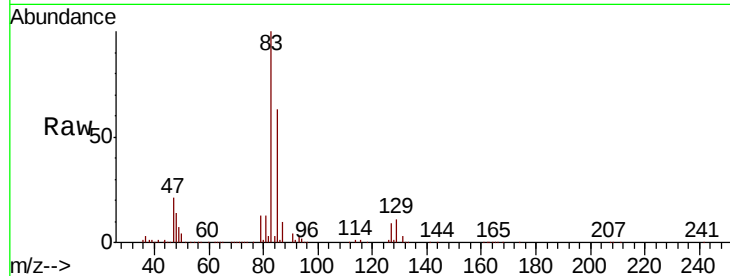
ClientSampleId :

VSTDICCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 265447 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 63.3  | 50.6  | 76.0   |
| 127       | 8.9   | 7.1   | 10.7   |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#48

Methyl methacrylate

Concen: 45.02 ug/l

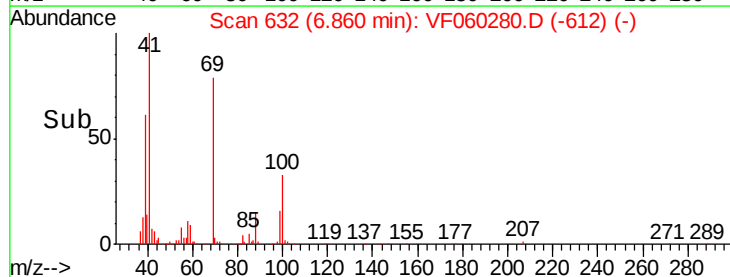
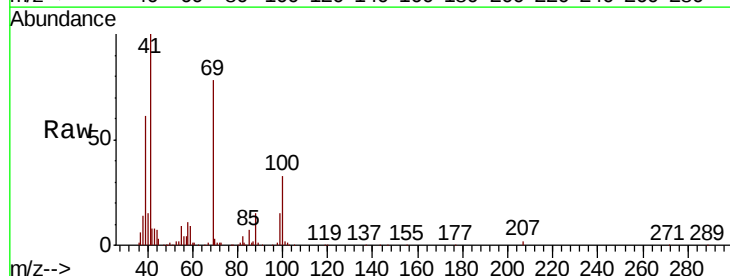
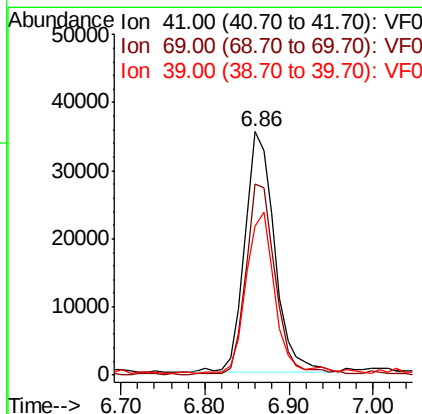
RT: 6.86 min Scan# 632

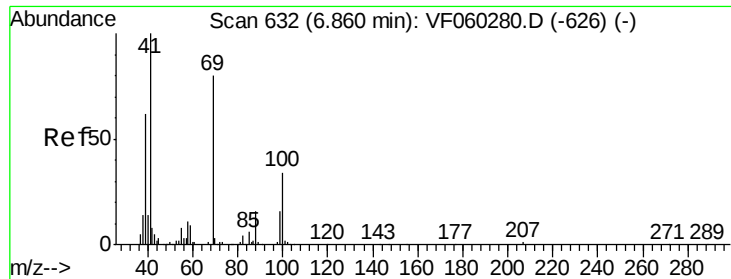
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 88729 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 69        | 78.3  | 62.6  | 94.0  |
| 39        | 61.4  | 49.1  | 73.7  |





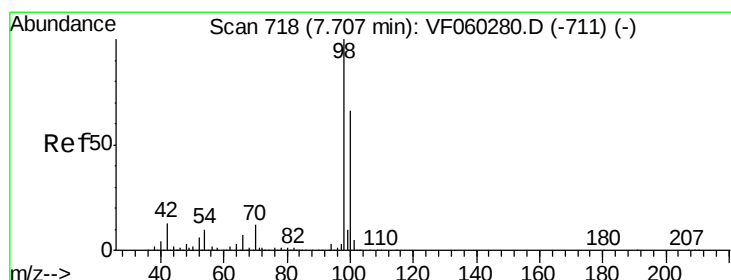
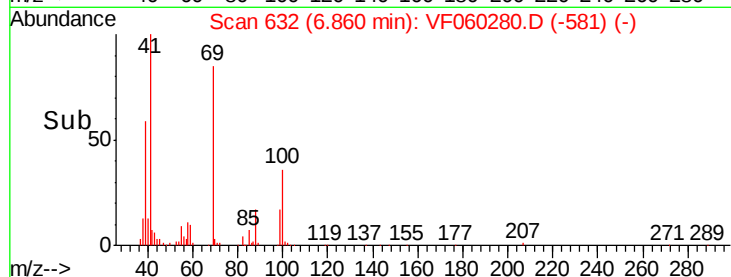
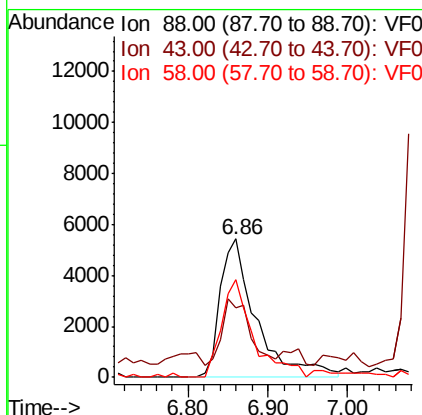
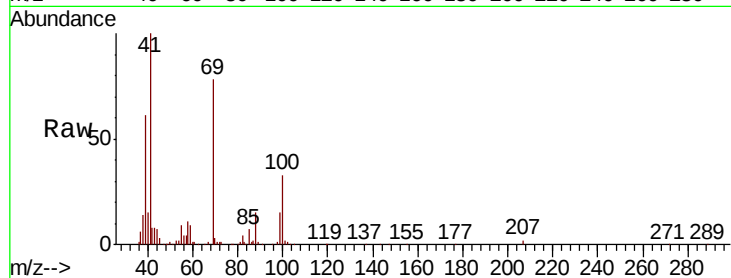
#49  
1,4-Dioxane  
Concen: 979.51 ug/l  
RT: 6.86 min Scan# 632  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion   | 88    | Resp  | 17247 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 50.3  | 40.2  | 60.4  |
| 58        | 70.9  | 56.7  | 85.1  |

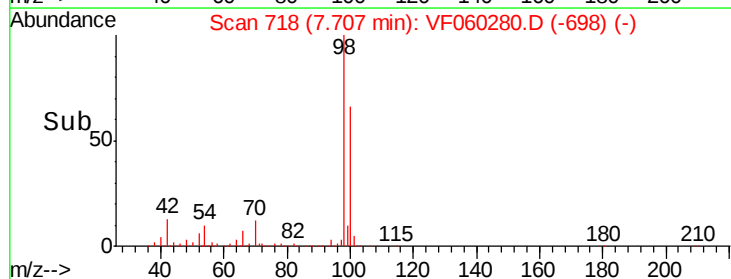
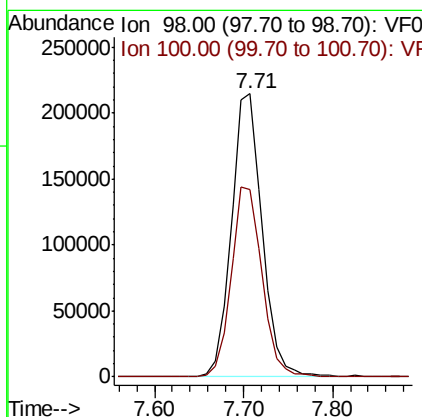
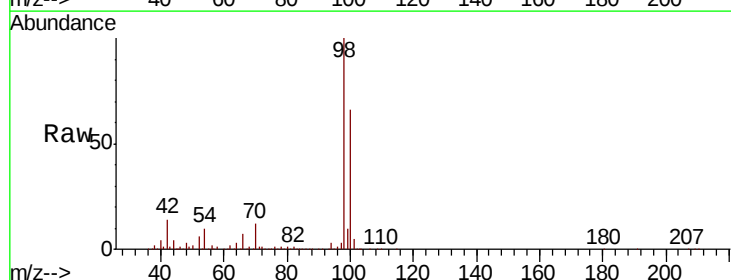
Manual Integrations  
APPROVED

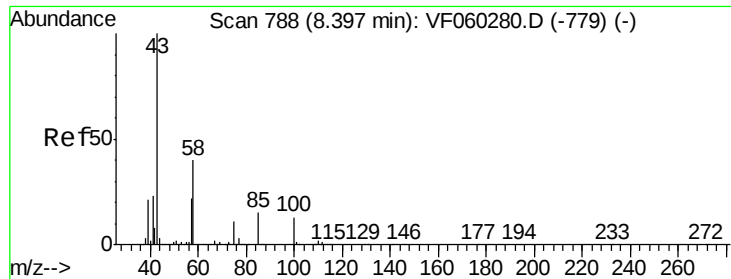
apatel  
9/20/2018 11:54:47 AM



#50  
Toluene-d8  
Concen: 50.48 ug/l  
RT: 7.71 min Scan# 718  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion   | 98    | Resp  | 517778 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 66.3  | 53.0  | 79.6   |





#51

4-Methyl-2-Pentanone

Concen: 251.59 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleID :

VSTDICCC050

Tot Ion: 43 Resp: 544422

Ion Ratio Lower Upper

43 100

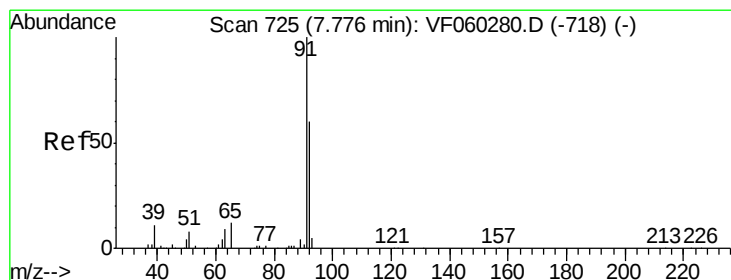
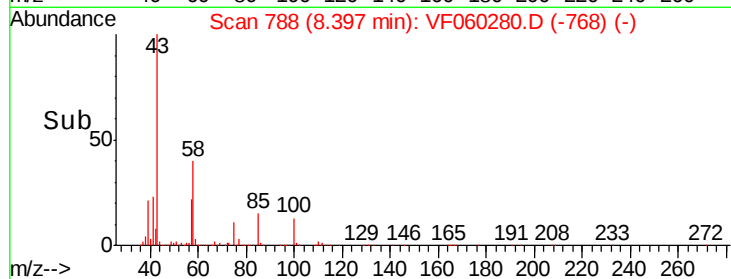
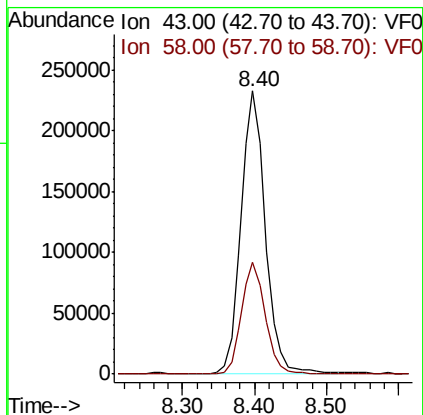
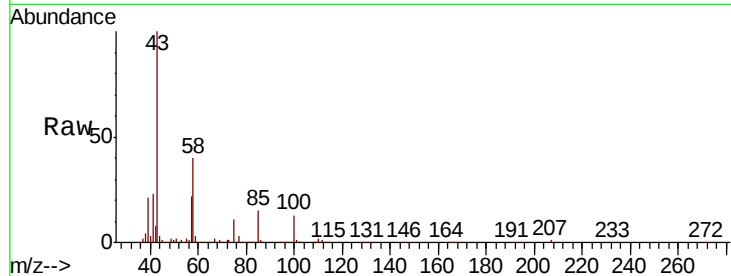
58 39.8 31.8 47.8

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#52

Toluene

Concen: 47.01 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.00 min

Lab File: VF060280.D

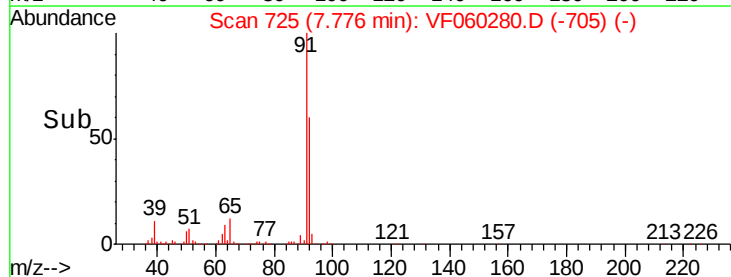
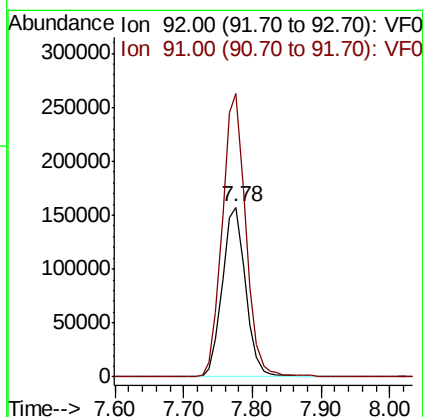
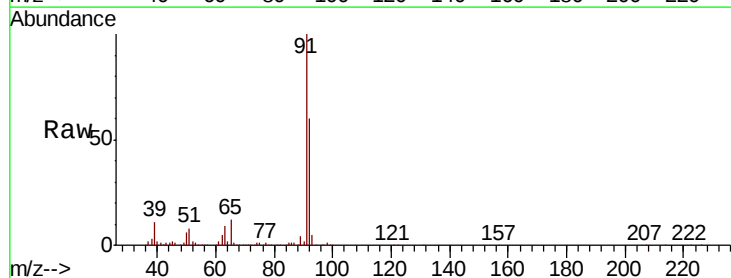
Acq: 19 Sep 2018 14:14

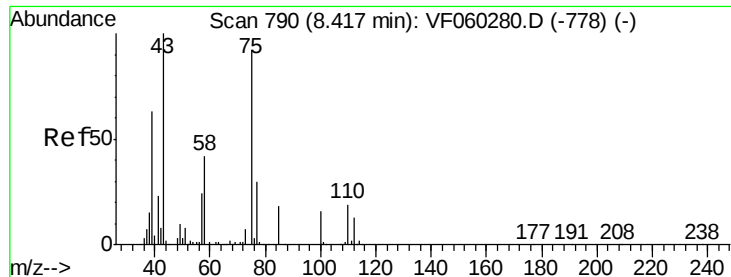
Tgt Ion: 92 Resp: 371653

Ion Ratio Lower Upper

92 100

91 166.6 133.3 199.9





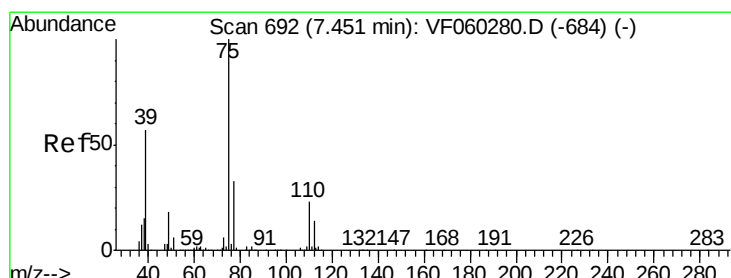
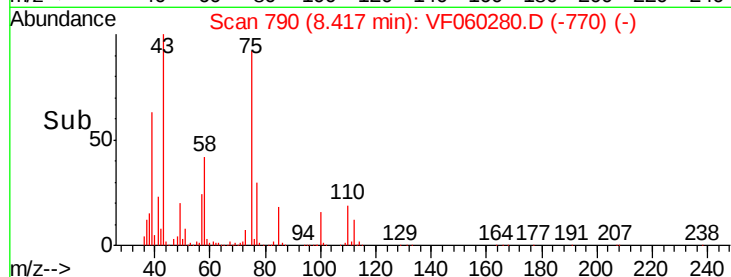
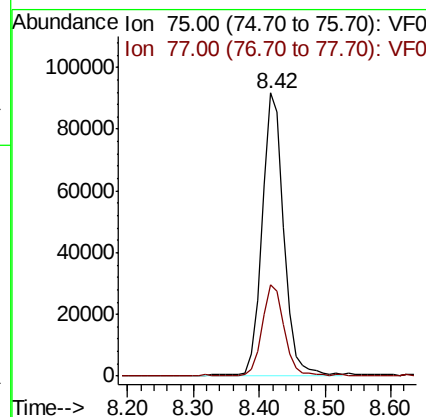
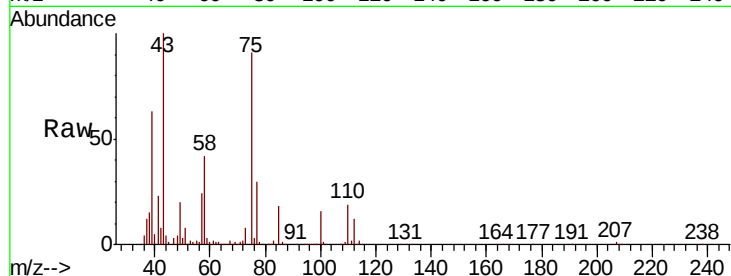
#53  
 t-1,3-Dichloropropene  
 Concen: 47.61 ug/l  
 RT: 8.42 min Scan# 790  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.4  | 25.9  | 38.9  |

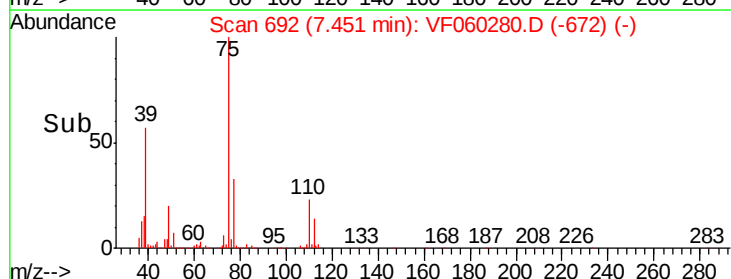
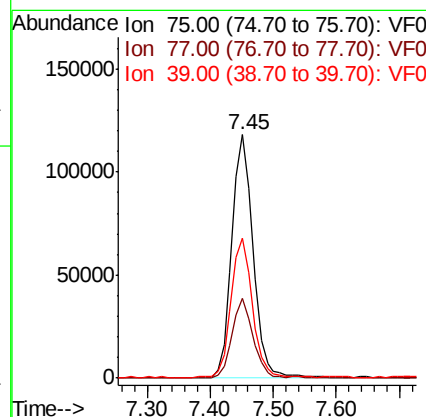
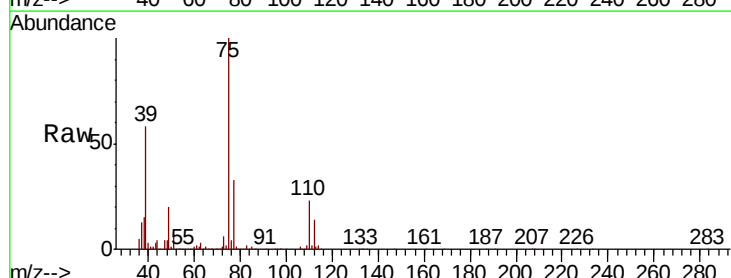
Manual Integrations  
 APPROVED

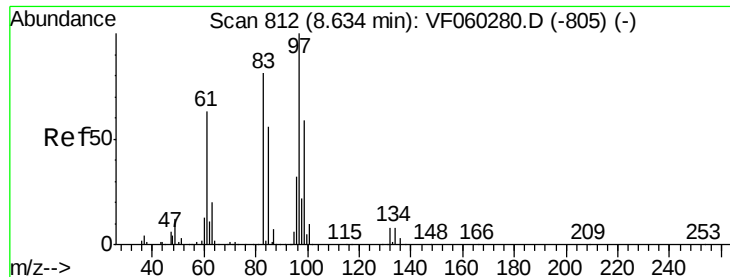
apatel  
 9/20/2018 11:54:47 AM



#54  
 cis-1,3-Dichloropropene  
 Concen: 48.92 ug/l  
 RT: 7.45 min Scan# 692  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.9  | 26.3  | 39.5  |
| 39      | 57.6  | 46.1  | 69.1  |





#55

1,1,2-Trichloroethane

Concen: 50.39 ug/l

RT: 8.63 min Scan# 812

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

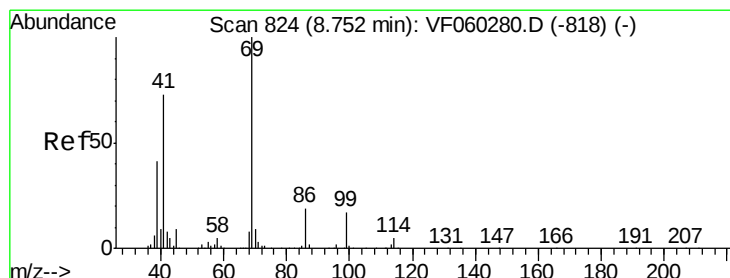
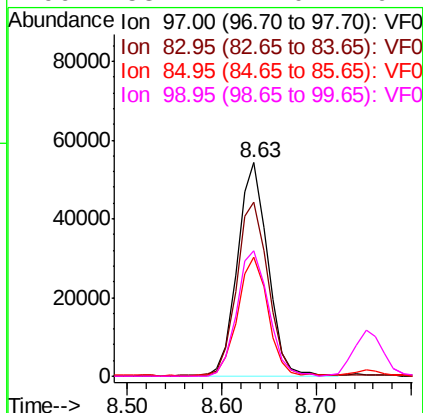
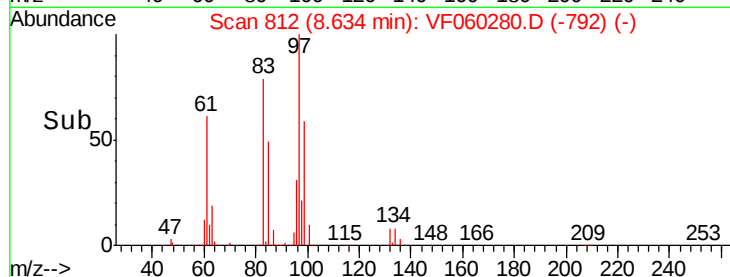
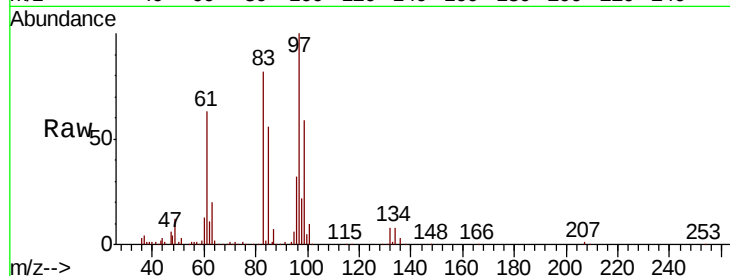
ClientSampleId :

VSTDICCC050

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 120927 |       |       |
| 83      | 81.6 | 65.3  | 97.9   |       |       |
| 85      | 55.9 | 44.7  | 67.1   |       |       |
| 99      | 58.7 | 47.0  | 70.4   |       |       |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#56

Ethyl methacrylate

Concen: 46.72 ug/l

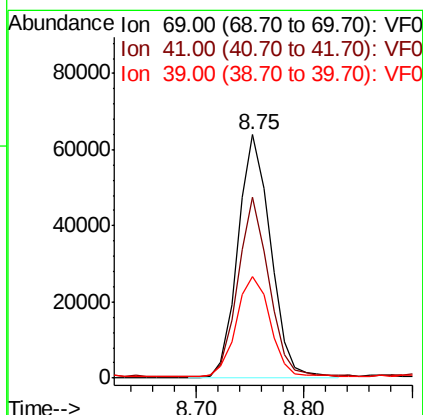
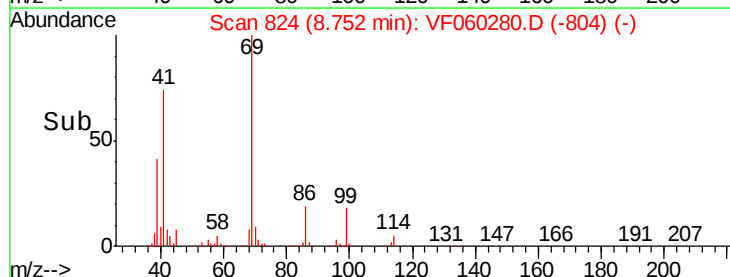
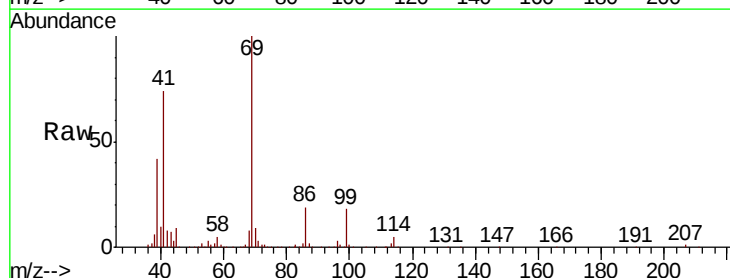
RT: 8.75 min Scan# 824

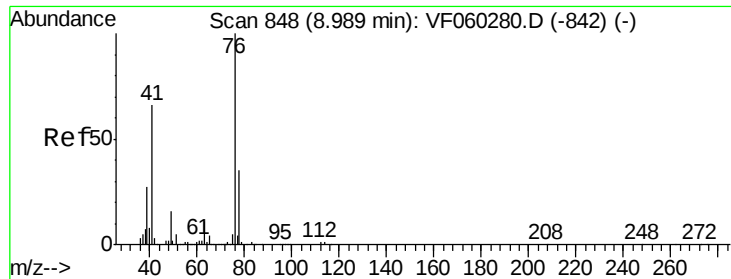
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 69      | 100  |       | 135391 |       |       |
| 41      | 74.3 | 59.4  | 89.2   |       |       |
| 39      | 41.9 | 33.5  | 50.3   |       |       |





#57

1,3-Dichloropropane

Concen: 50.02 ug/l

RT: 8.99 min Scan# 848

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 198729

Ion Ratio Lower Upper

76 100

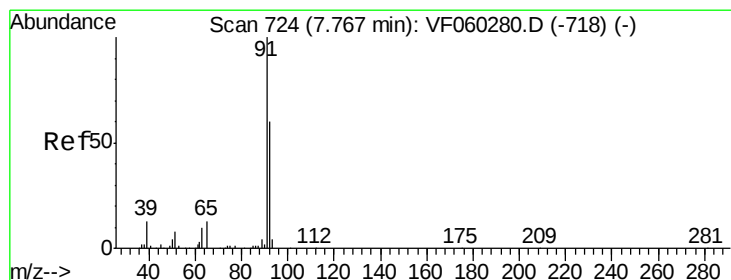
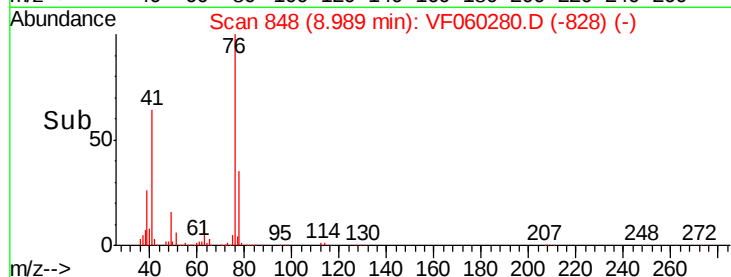
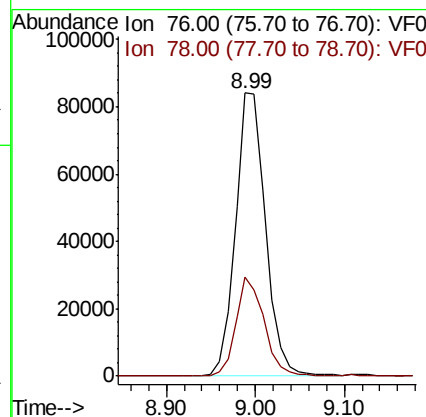
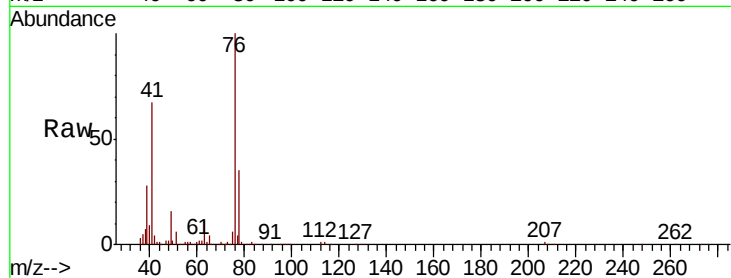
78 35.2 28.2 42.2

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#58

2-Chloroethyl Vinyl ether

Concen: 229.07 ug/l

RT: 7.77 min Scan# 724

Delta R.T. 0.00 min

Lab File: VF060280.D

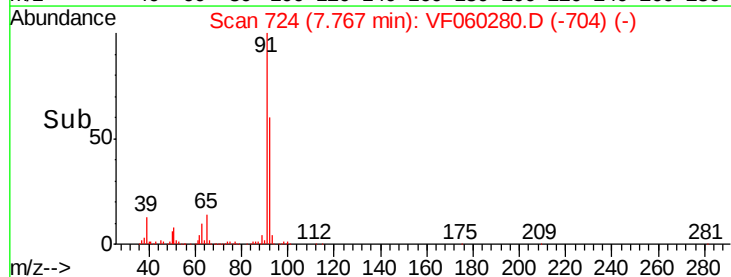
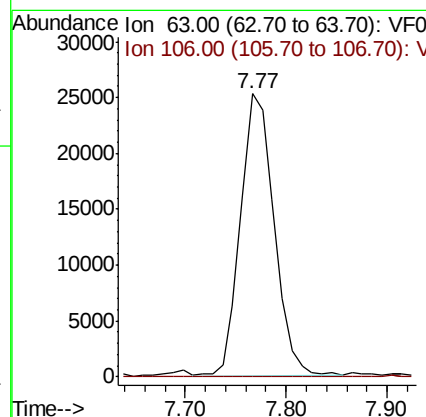
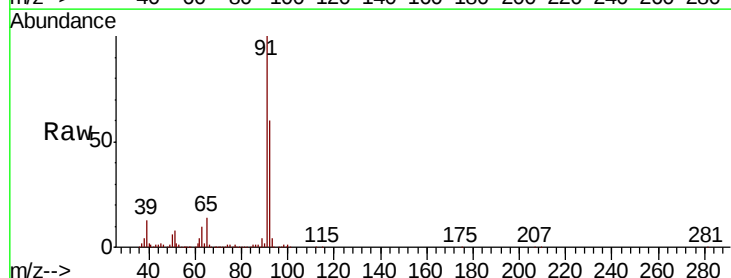
Acq: 19 Sep 2018 14:14

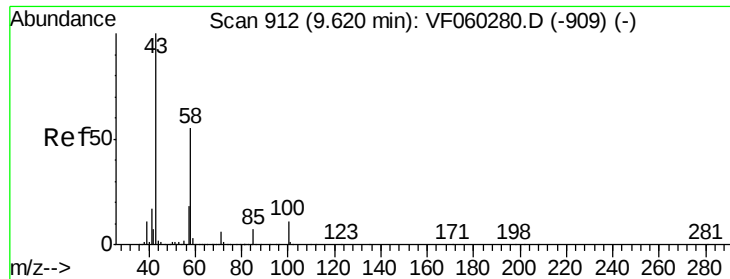
Tgt Ion: 63 Resp: 58690

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





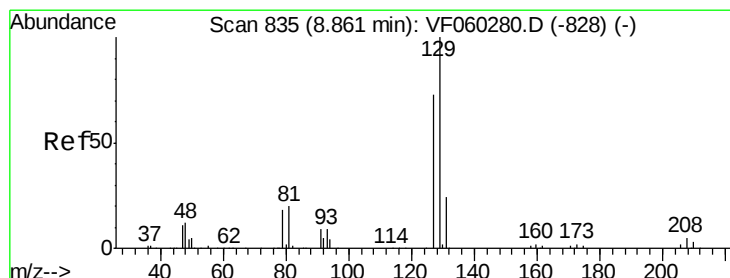
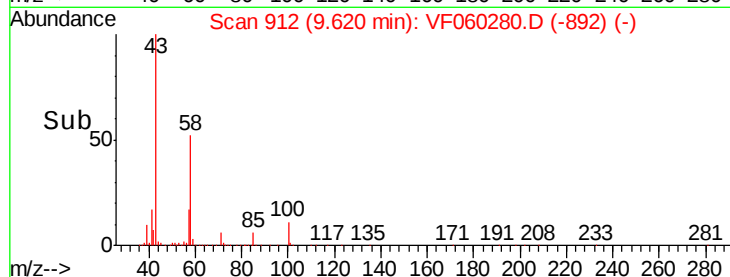
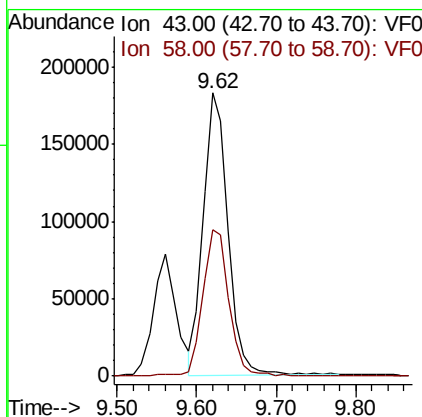
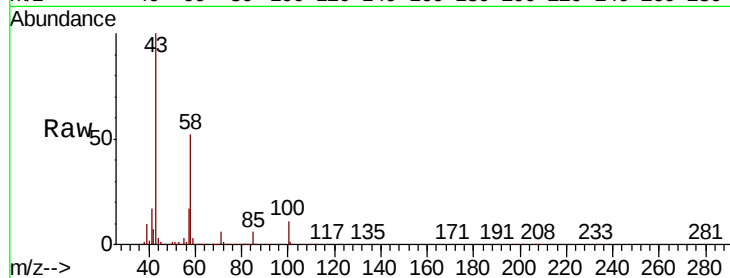
#59  
2-Hexanone  
Concen: 255.78 ug/l  
RT: 9.62 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Tot Ion: 43 Resp: 394086  
Ion Ratio Lower Upper  
43 100  
58 51.7 25.9 77.6

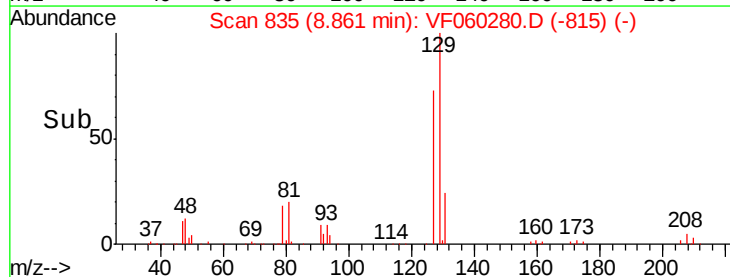
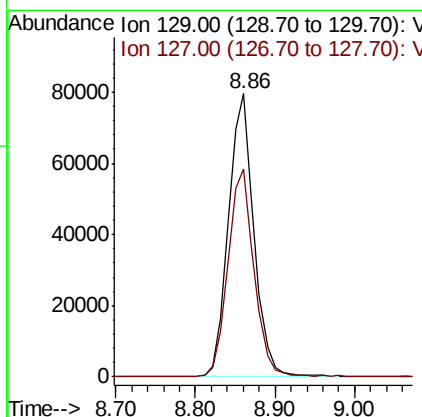
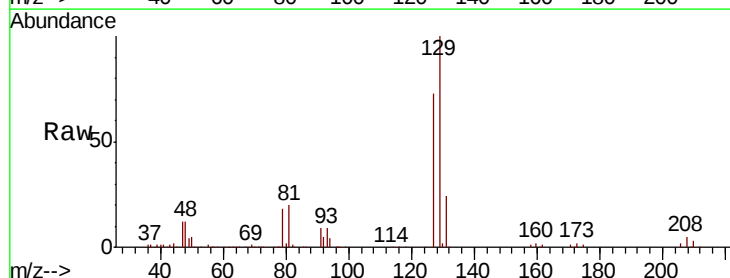
Manual Integrations  
APPROVED

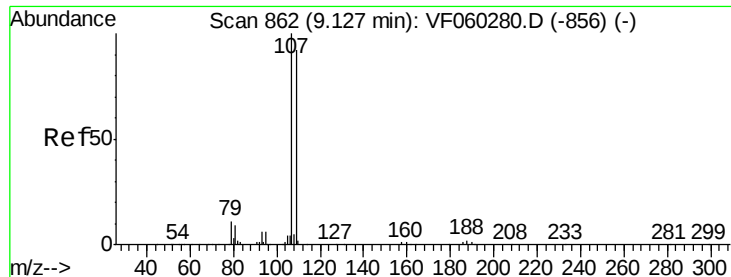
apatel  
9/20/2018 11:54:47 AM



#60  
Dibromochloromethane  
Concen: 50.00 ug/l  
RT: 8.86 min Scan# 835  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Tgt Ion: 129 Resp: 178830  
Ion Ratio Lower Upper  
129 100  
127 73.2 36.6 109.8





#61

1,2-Dibromoethane

Concen: 47.56 ug/l

RT: 9.13 min Scan# 862

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion:107 Resp: 127096

Ion Ratio Lower Upper

107 100

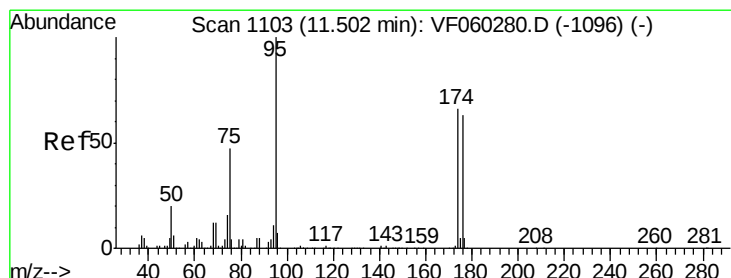
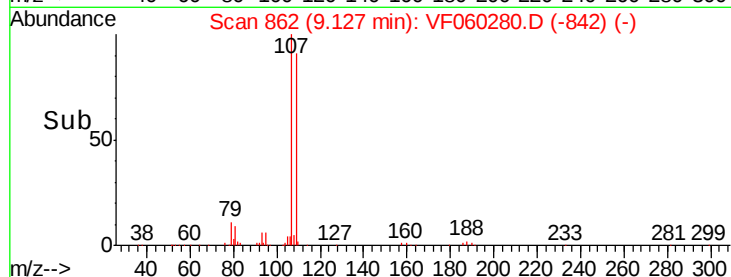
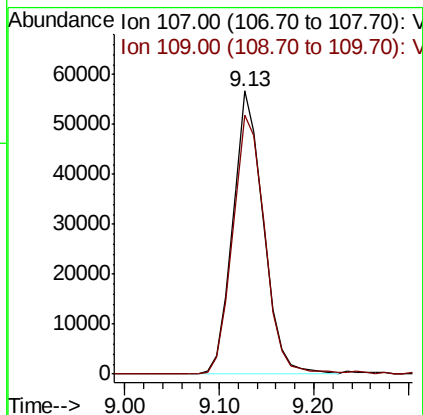
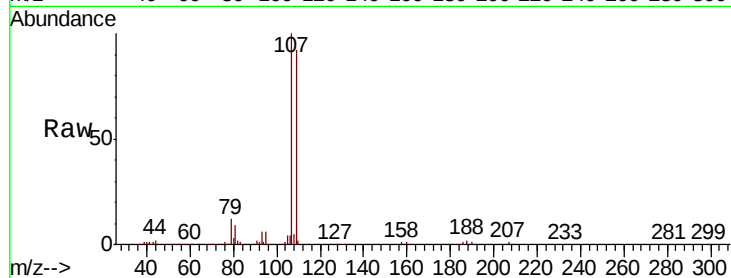
109 91.5 73.2 109.8

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#62

4-Bromofluorobenzene

Concen: 48.89 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

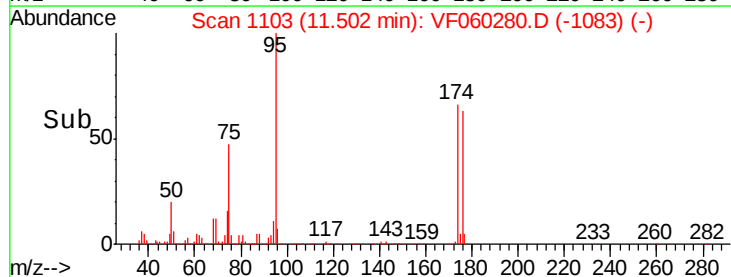
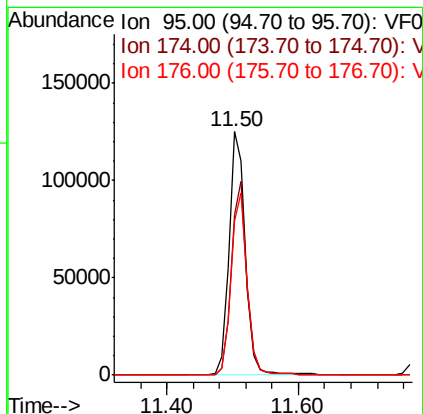
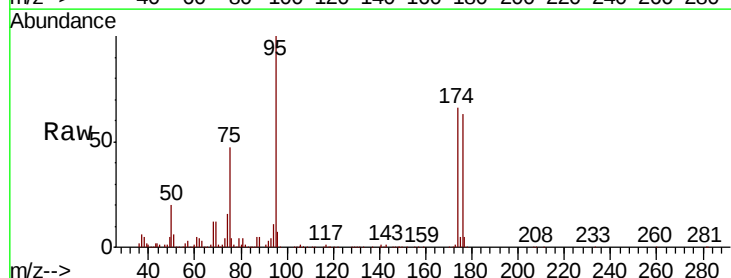
Tgt Ion: 95 Resp: 216786

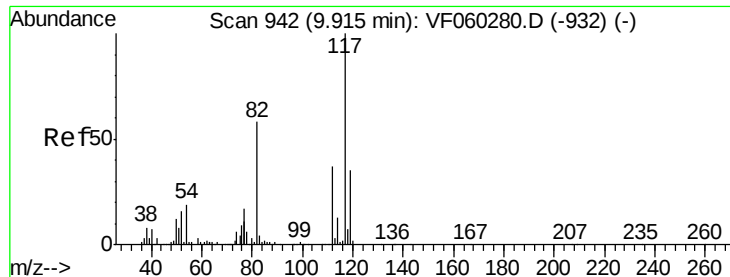
Ion Ratio Lower Upper

95 100

174 65.6 0.0 131.2

176 63.3 0.0 126.6





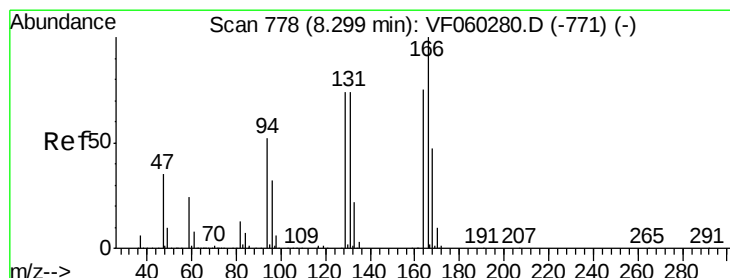
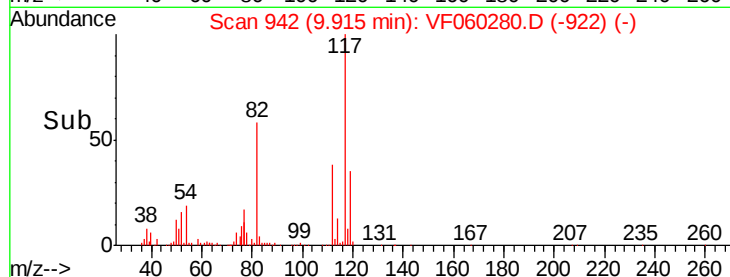
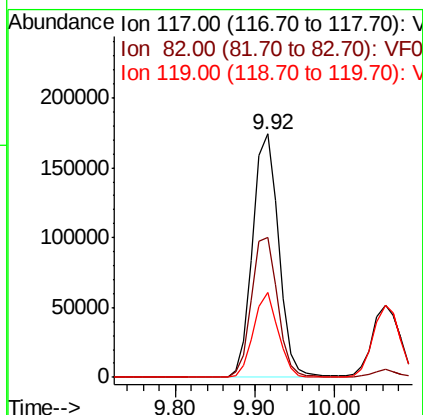
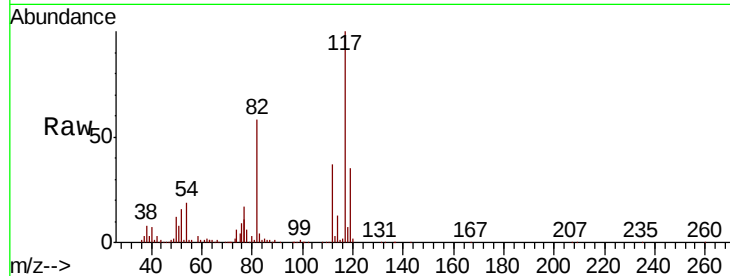
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.92 min Scan# 942  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.7  | 46.2  | 69.2  |
| 119     | 34.7  | 27.8  | 41.6  |

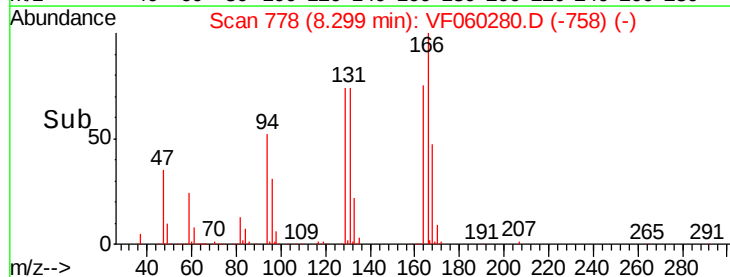
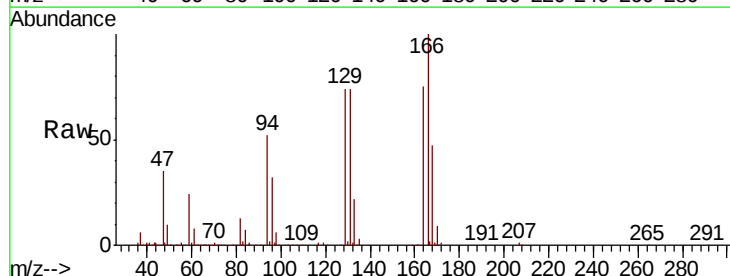
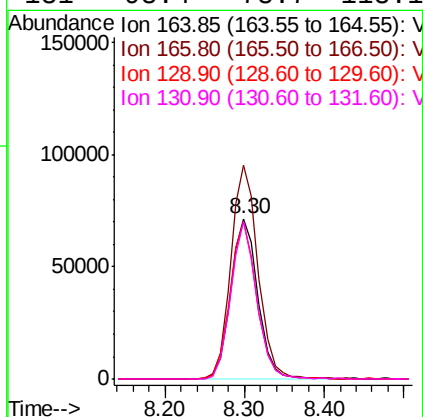
Manual Integrations  
APPROVED

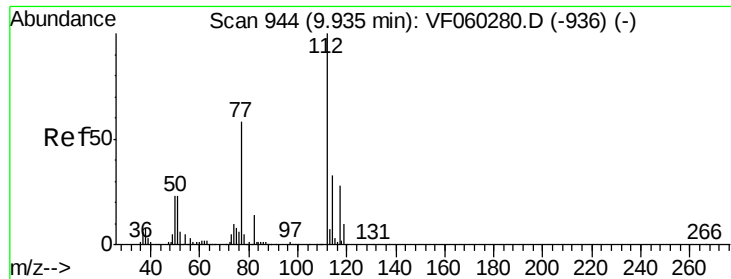
apatel  
9/20/2018 11:54:47 AM



#64  
Tetrachloroethene  
Concen: 47.66 ug/l  
RT: 8.30 min Scan# 778  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 133.5 | 106.8 | 160.2 |
| 129     | 98.5  | 78.8  | 118.2 |
| 131     | 98.4  | 78.7  | 118.1 |





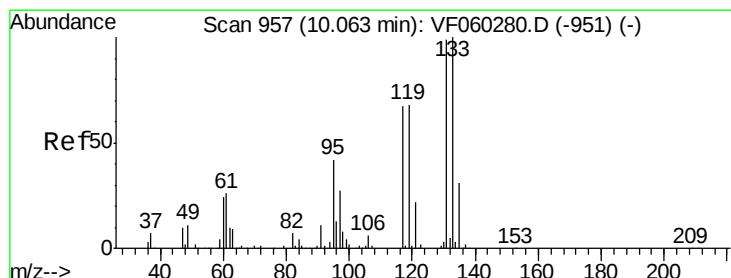
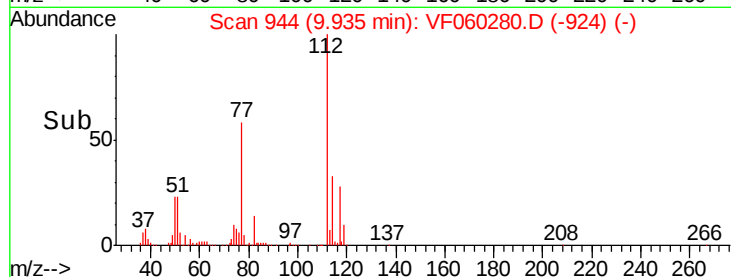
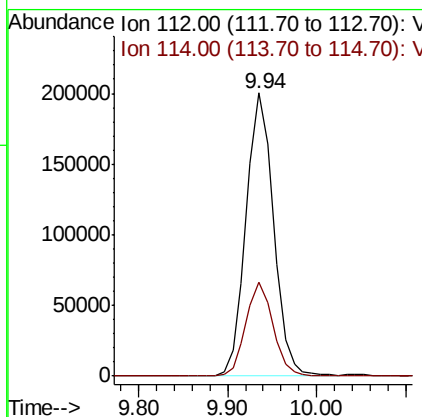
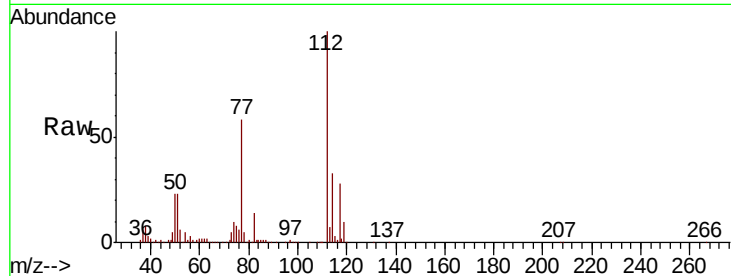
#65  
Chlorobenzene  
Concen: 48.19 ug/l  
RT: 9.94 min Scan# 944  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Tot Ion:112 Resp: 428169  
Ion Ratio Lower Upper  
112 100  
114 33.3 26.6 40.0

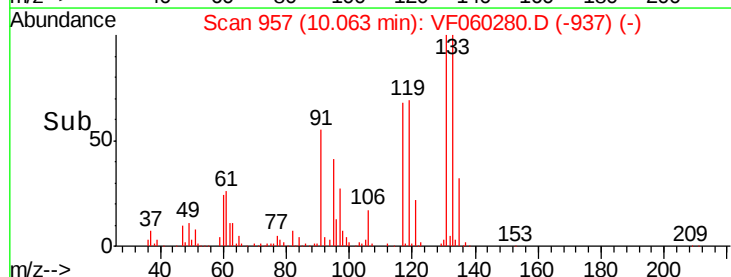
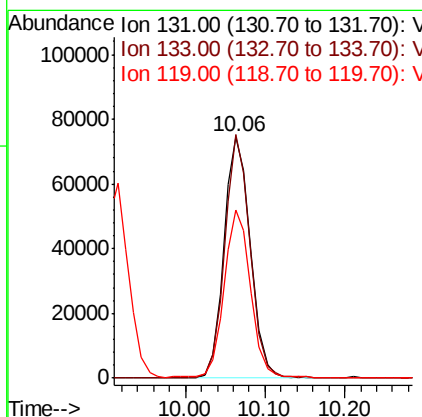
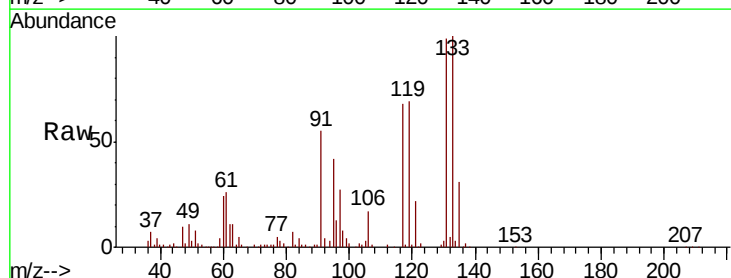
Manual Integrations  
APPROVED

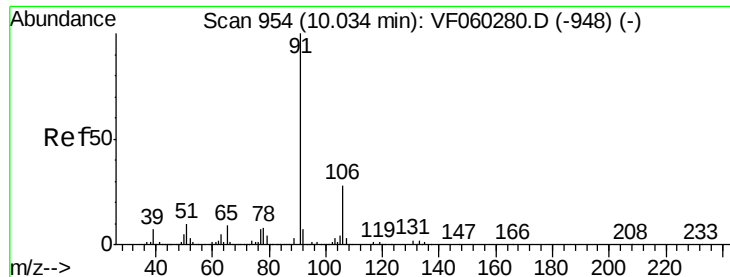
apatel  
9/20/2018 11:54:47 AM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 47.05 ug/l  
RT: 10.06 min Scan# 957  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Tgt Ion:131 Resp: 173478  
Ion Ratio Lower Upper  
131 100  
133 100.8 50.4 151.2  
119 69.5 34.8 104.3





#67

Ethyl Benzene

Concen: 47.91 ug/l

RT: 10.03 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 787131

Ion Ratio Lower Upper

91 100

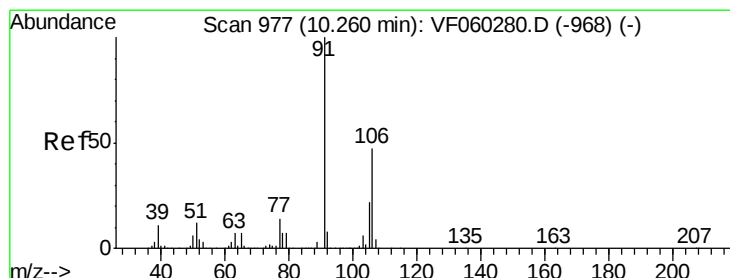
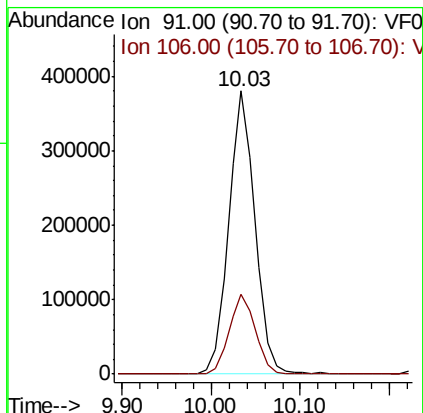
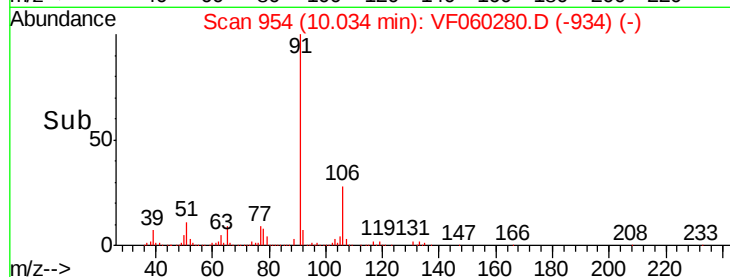
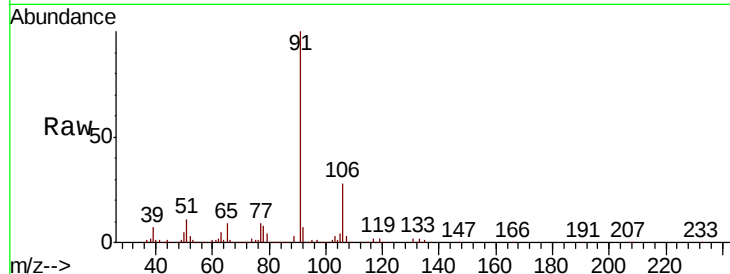
106 28.4 22.7 34.1

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#68

m/p-Xylenes

Concen: 93.43 ug/l

RT: 10.26 min Scan# 977

Delta R.T. 0.00 min

Lab File: VF060280.D

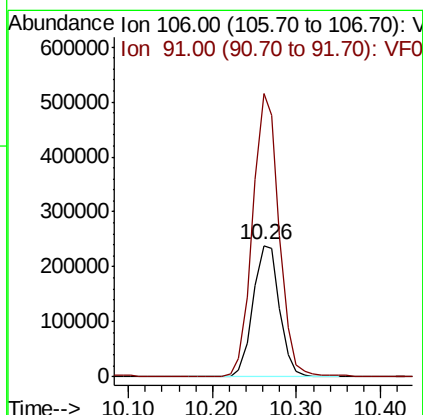
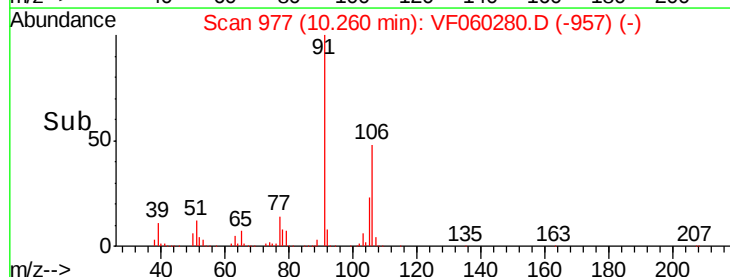
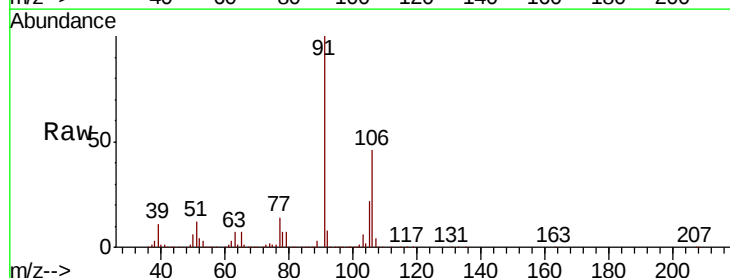
Acq: 19 Sep 2018 14:14

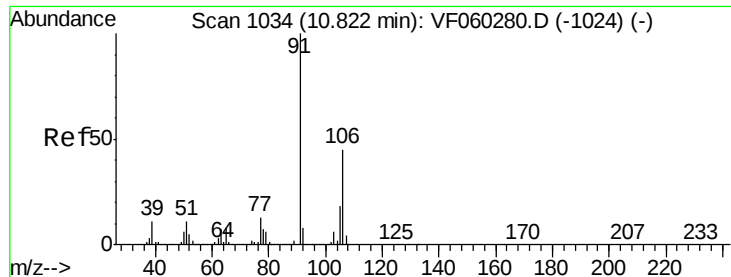
Tgt Ion: 106 Resp: 530283

Ion Ratio Lower Upper

106 100

91 215.4 172.3 258.5





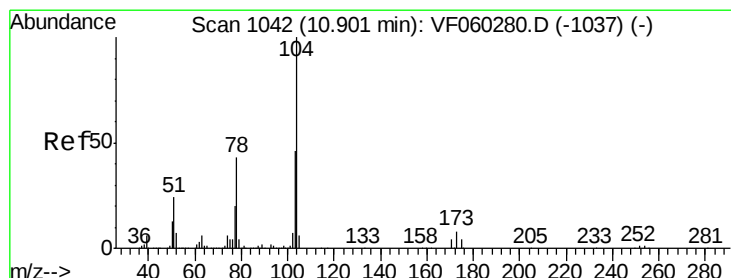
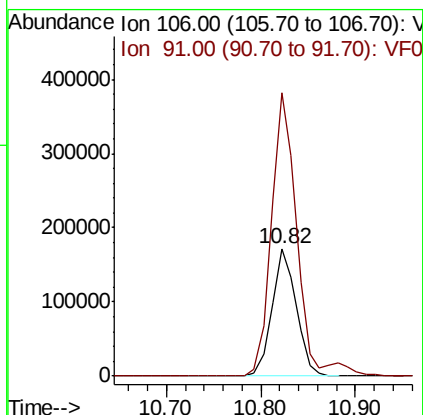
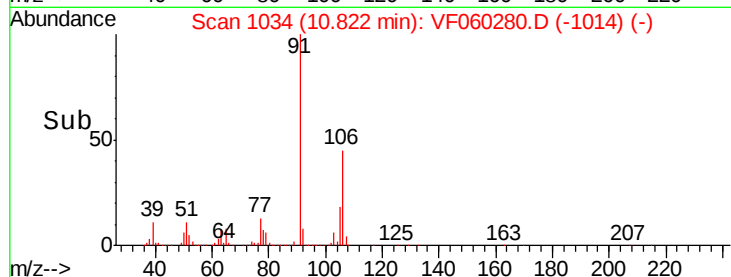
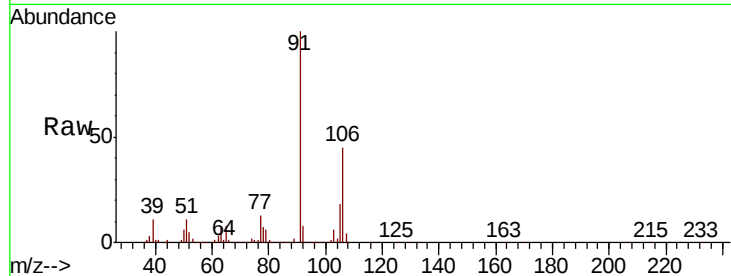
#69  
o-Xylene  
Concen: 48.26 ug/l  
RT: 10.82 min Scan# 1034  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 221.7 | 110.9 | 332.6 |

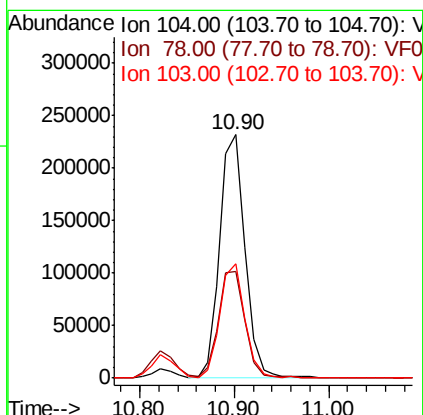
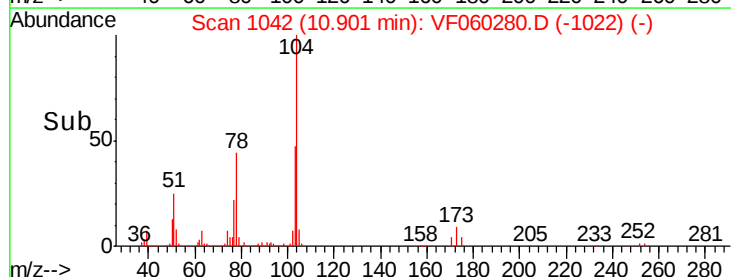
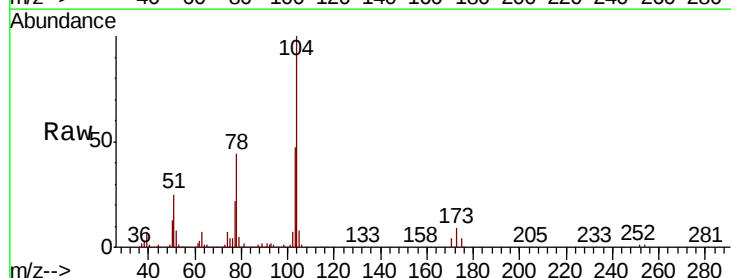
Manual Integrations  
APPROVED

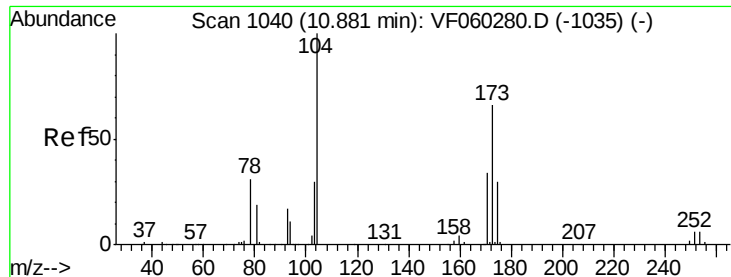
apatel  
9/20/2018 11:54:47 AM



#70  
Styrene  
Concen: 47.71 ug/l  
RT: 10.90 min Scan# 1042  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 43.8  | 35.0  | 52.6  |
| 103     | 46.7  | 37.4  | 56.0  |





#71

Bromoform

Concen: 48.80 ug/l

RT: 10.88 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion:173 Resp: 98834

Ion Ratio Lower Upper

173 100

175 44.6 22.3 66.9

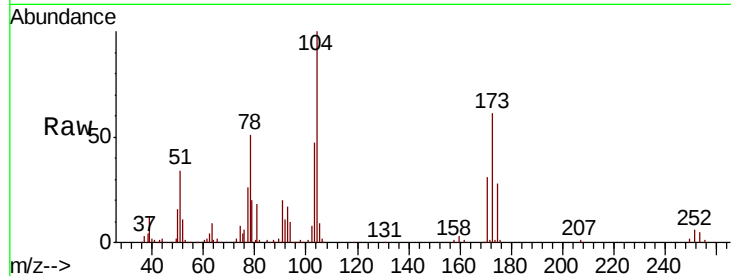
254 0.0 0.0 0.0

Manual Integrations

APPROVED

apatel

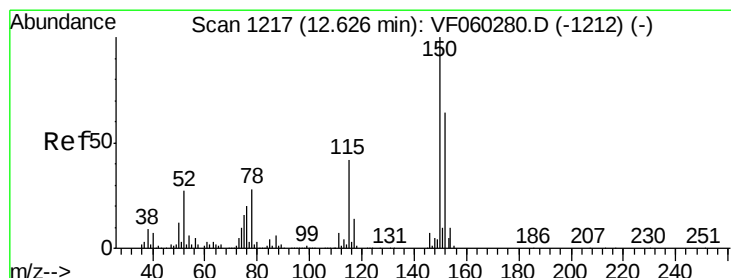
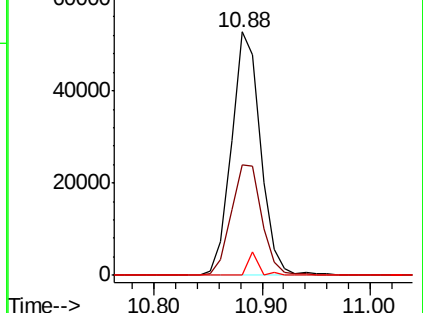
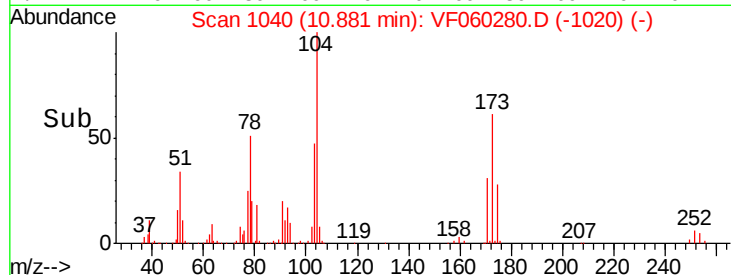
9/20/2018 11:54:47 AM



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: 50.00 ug/l

RT: 12.63 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

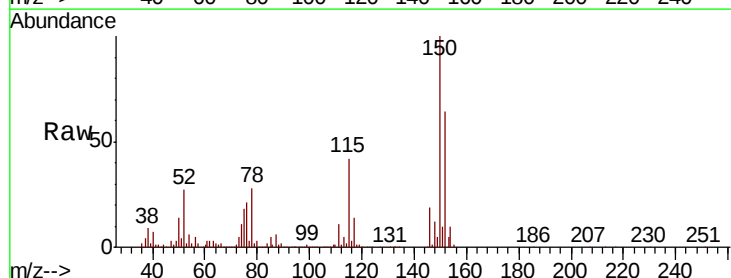
Tgt Ion:152 Resp: 207269

Ion Ratio Lower Upper

152 100

115 65.2 32.6 97.8

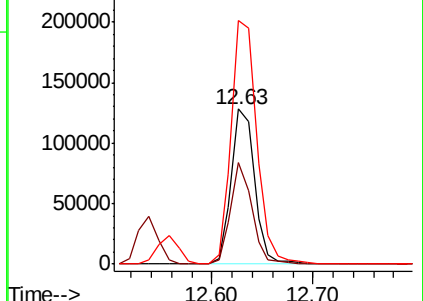
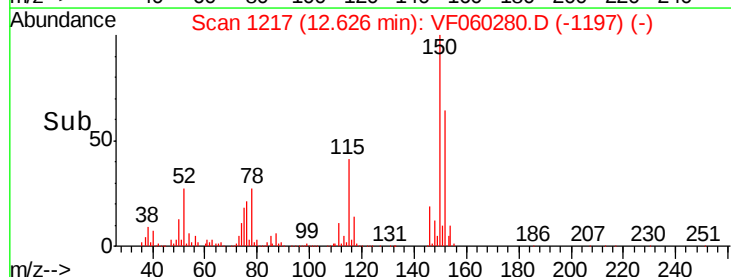
150 157.1 0.0 314.2

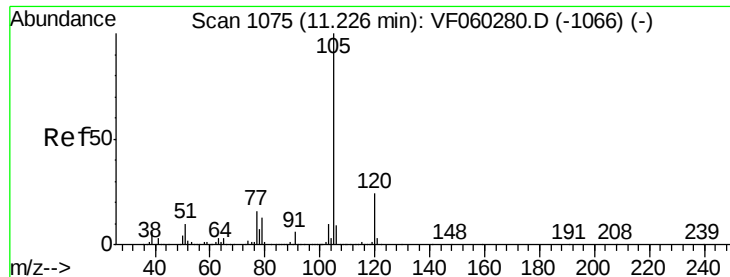


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 47.25 ug/l

RT: 11.23 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 879226

Ion Ratio Lower Upper

105 100

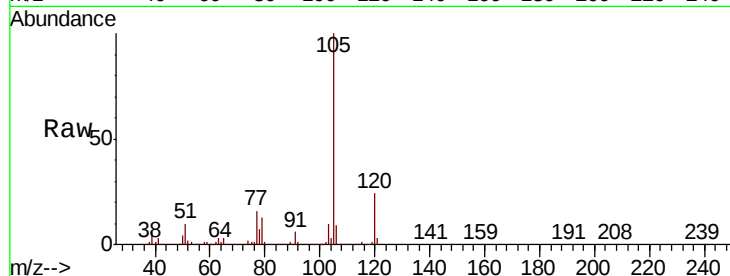
120 24.4 12.2 36.6

Manual Integrations

APPROVED

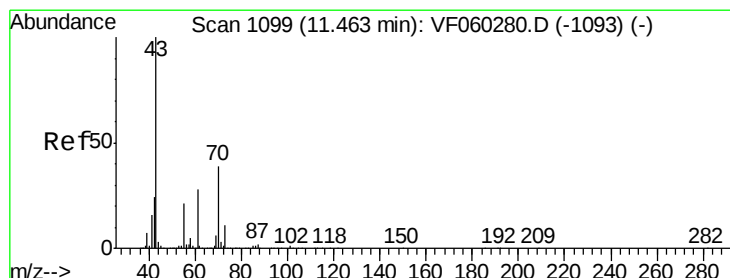
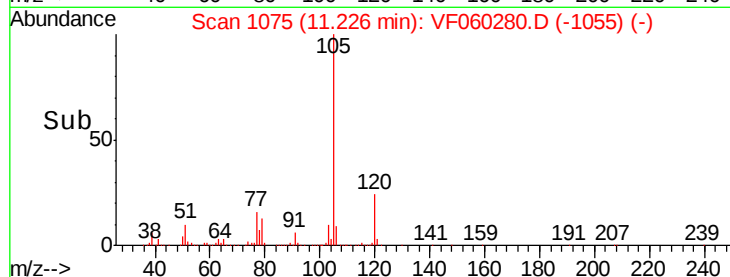
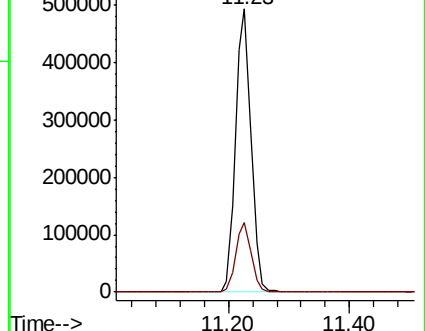
apatel

9/20/2018 11:54:47 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 44.63 ug/l

RT: 11.46 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Tgt Ion: 43 Resp: 177067

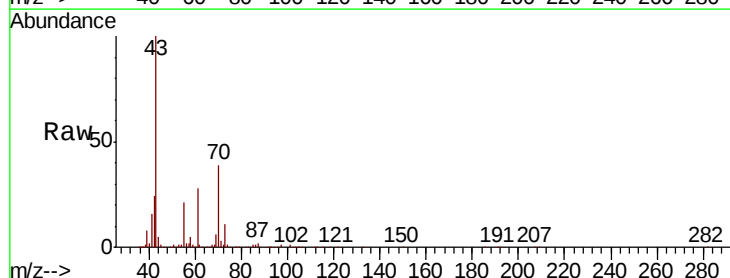
Ion Ratio Lower Upper

43 100

70 39.3 31.4 47.2

55 21.0 16.8 25.2

61 28.3 22.6 34.0

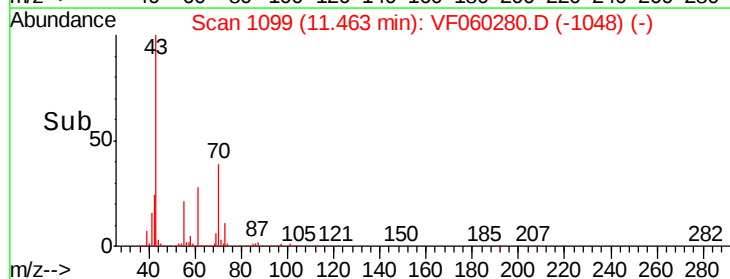
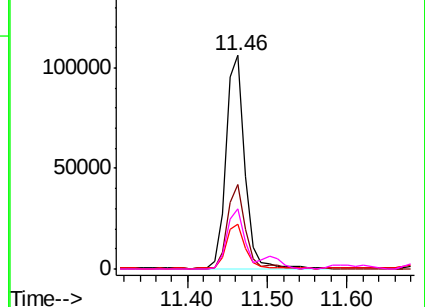


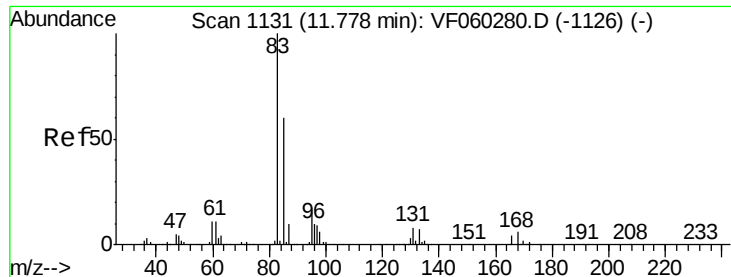
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 48.07 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

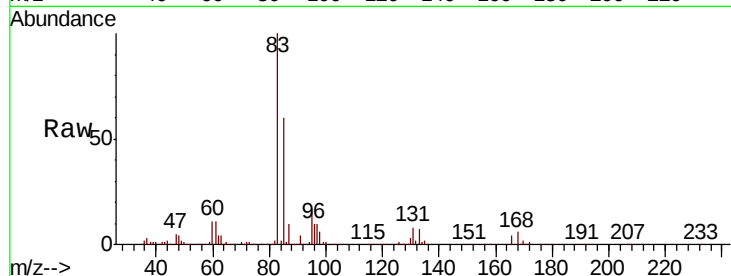
VSTDICCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 158502 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 8.3   | 4.2   | 12.4   |
| 85        | 60.3  | 30.1  | 90.5   |

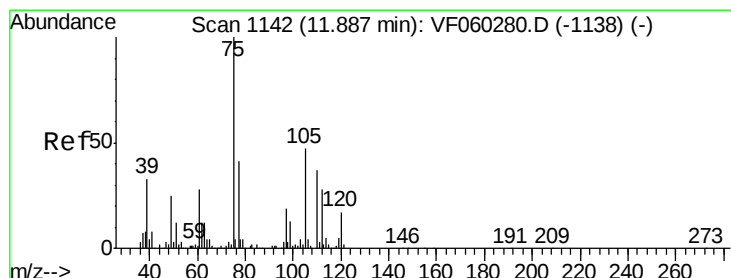
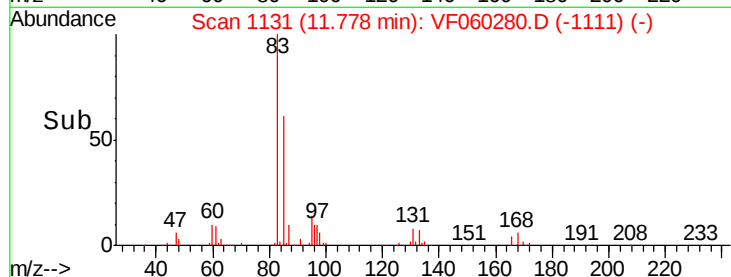
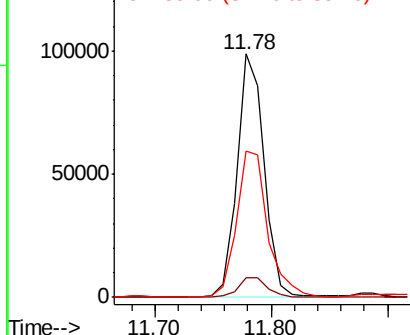
Manual Integrations  
APPROVED

apatel

9/20/2018 11:54:47 AM



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 131.00 (130.70 to 131.70): V  
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 46.51 ug/l

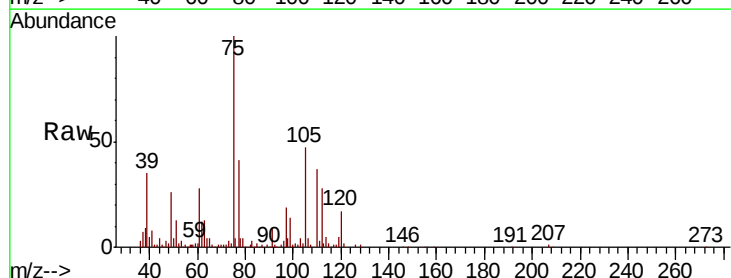
RT: 11.89 min Scan# 1142

Delta R.T. 0.00 min

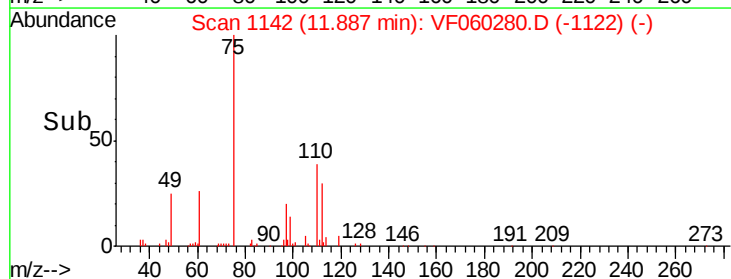
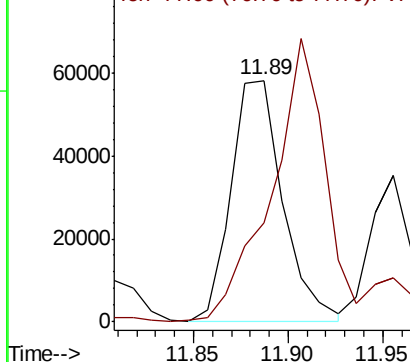
Lab File: VF060280.D

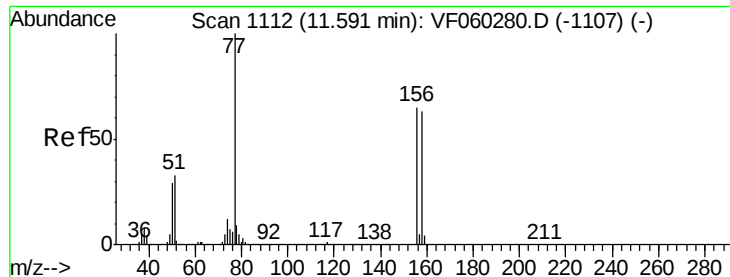
Acq: 19 Sep 2018 14:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 109825 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 41.0  | 20.5  | 61.5   |



Abundance Ion 75.00 (74.70 to 75.70): VF0  
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 47.66 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

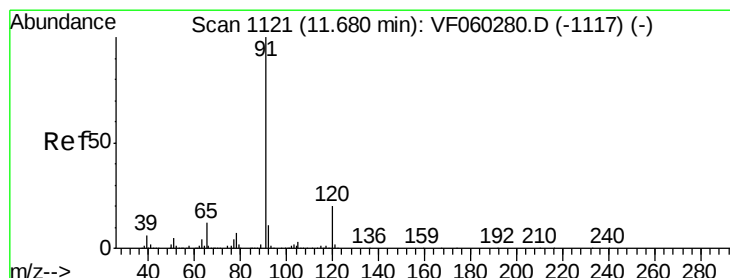
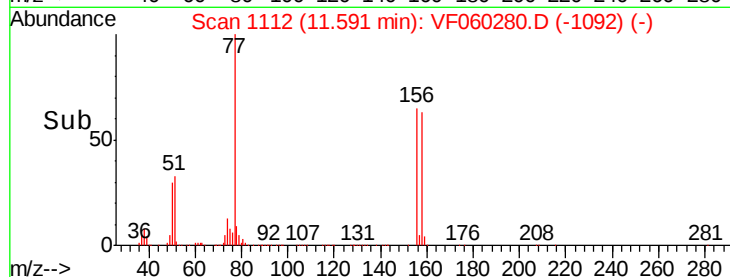
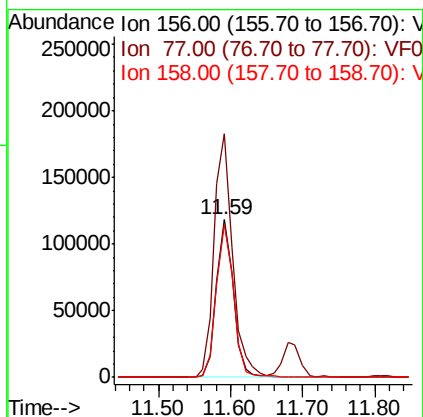
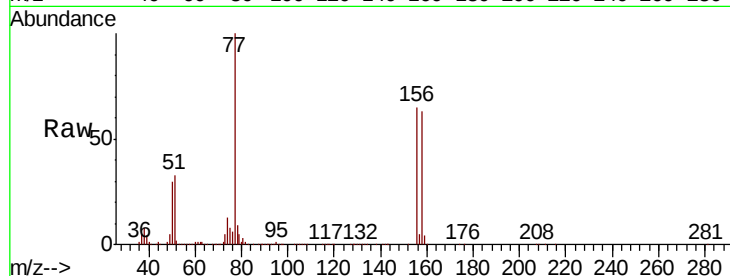
ClientSampleId :

VSTDICCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 191127 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 154.7 | 77.3  | 232.1  |
| 158       | 96.8  | 48.4  | 145.2  |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#78

n-propylbenzene

Concen: 47.34 ug/l

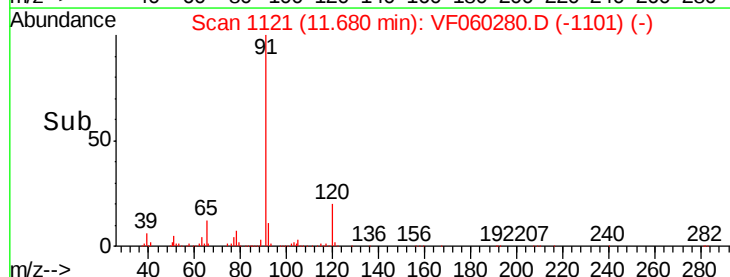
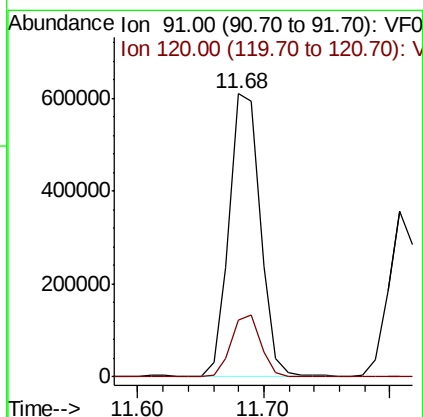
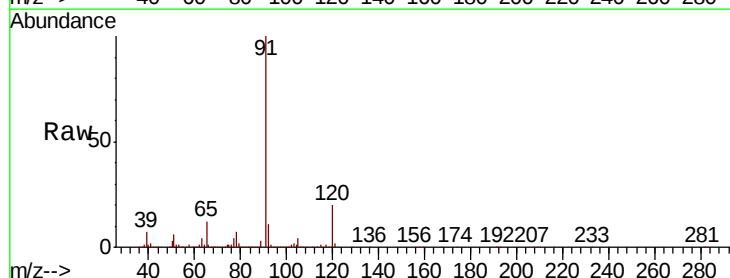
RT: 11.68 min Scan# 1121

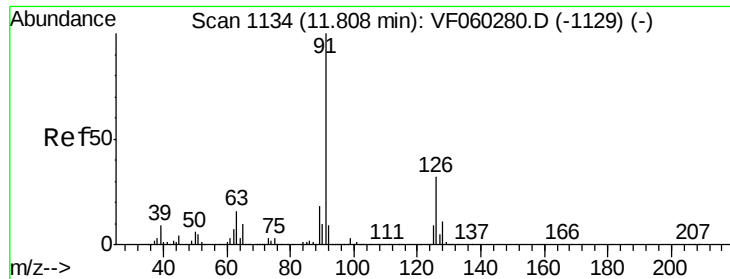
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1039910 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 120       | 19.9  | 10.0  | 29.8    |





#79

2-Chlorotoluene

Concen: 45.63 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 572767

Ion Ratio Lower Upper

91 100

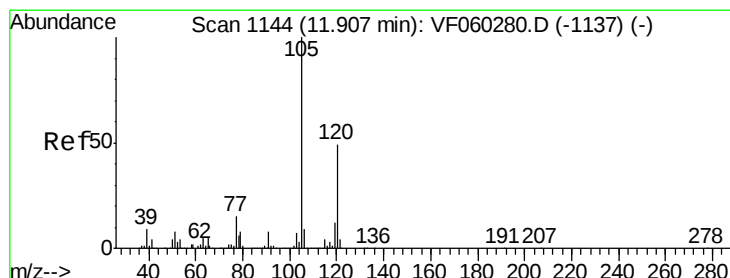
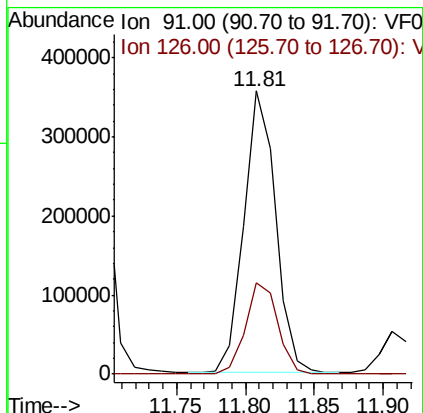
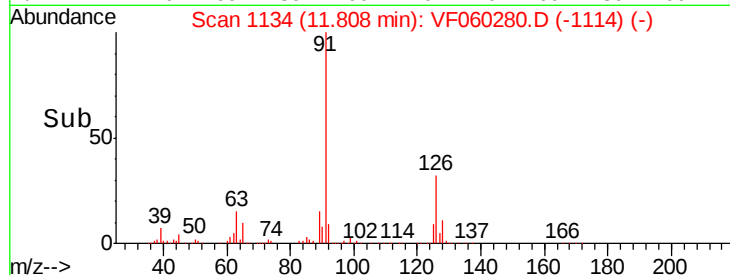
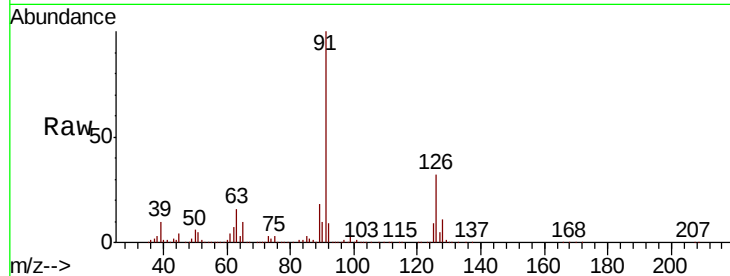
126 32.2 16.1 48.3

Manual Integrations

APPROVED

apatel

9/20/2018 11:54:47 AM



#80

1,3,5-Trimethylbenzene

Concen: 48.75 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF060280.D

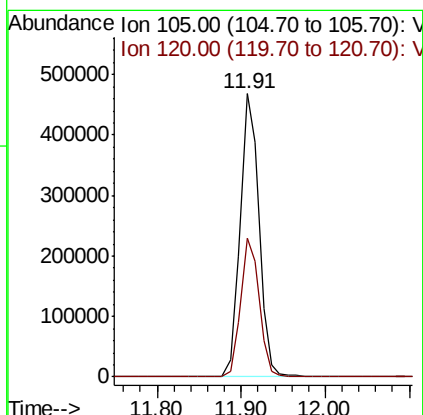
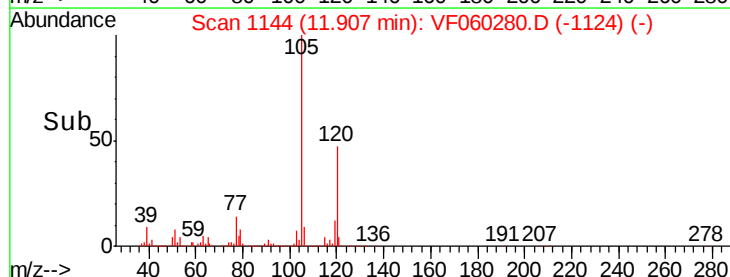
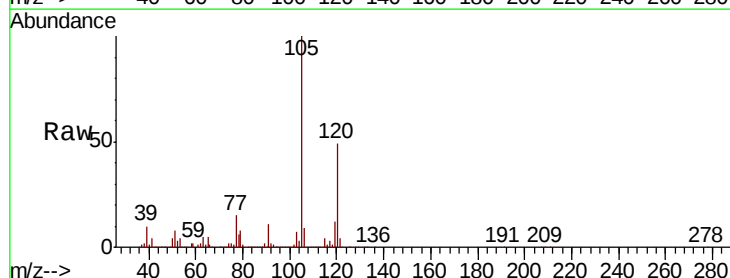
Acq: 19 Sep 2018 14:14

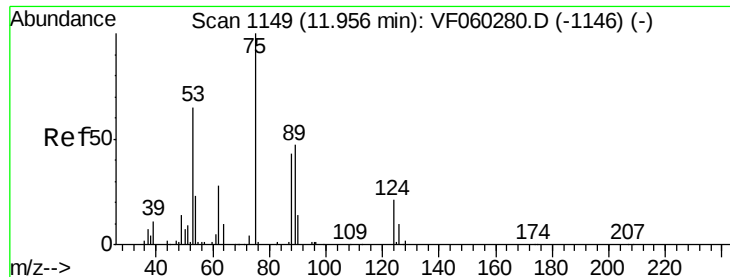
Tgt Ion: 105 Resp: 730210

Ion Ratio Lower Upper

105 100

120 48.8 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 36.77 ug/l m

RT: 11.96 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

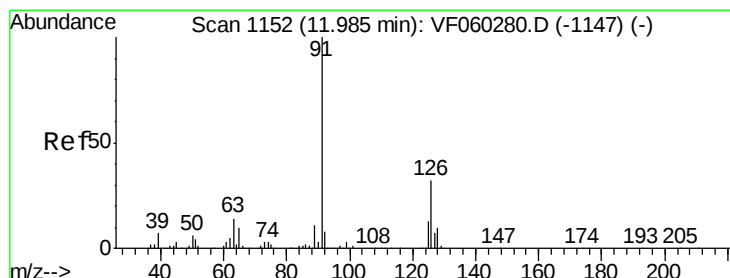
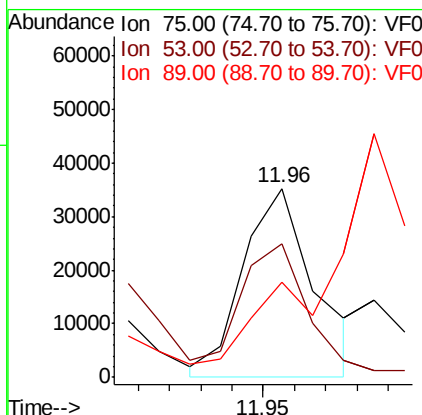
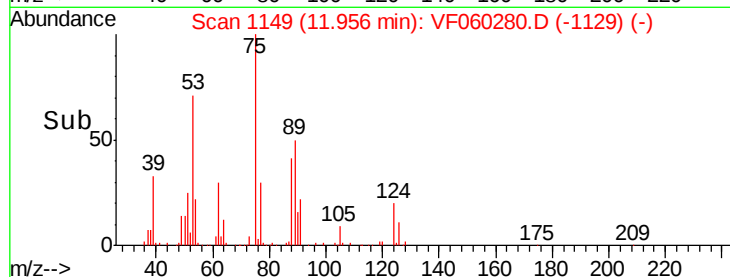
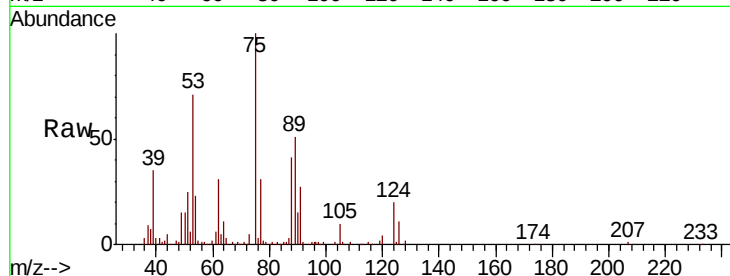
ClientSampleId :

VSTDICCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 55946 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 70.6  | 56.5  | 84.7  |
| 89       | 50.7  | 40.6  | 60.8  |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#82

4-Chlorotoluene

Concen: 46.92 ug/l

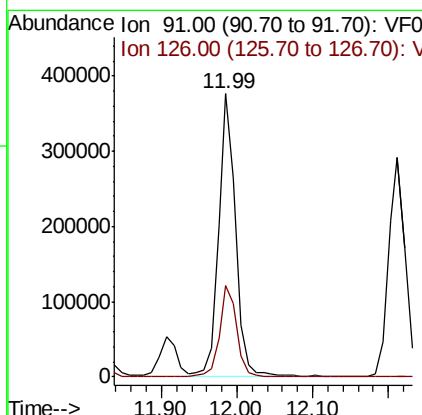
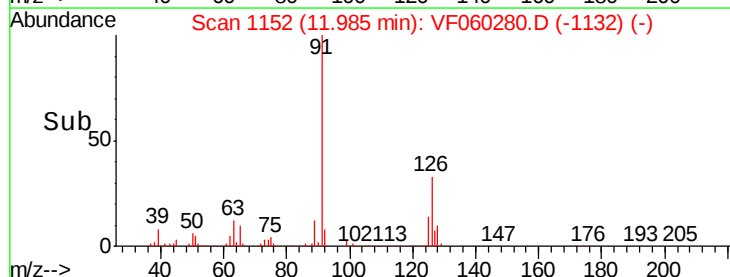
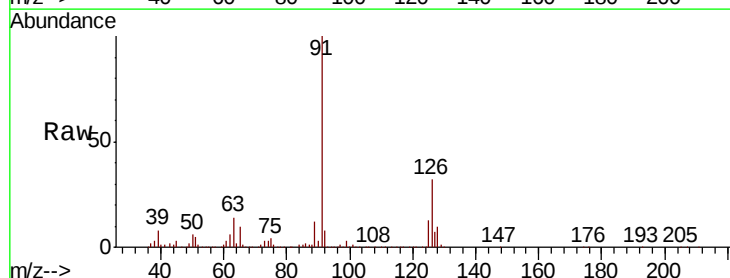
RT: 11.99 min Scan# 1152

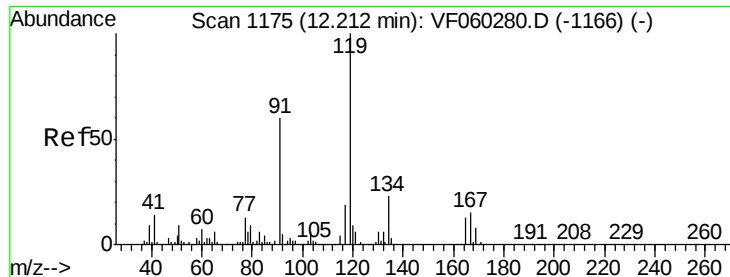
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 591956 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 32.1  | 16.1  | 48.2   |





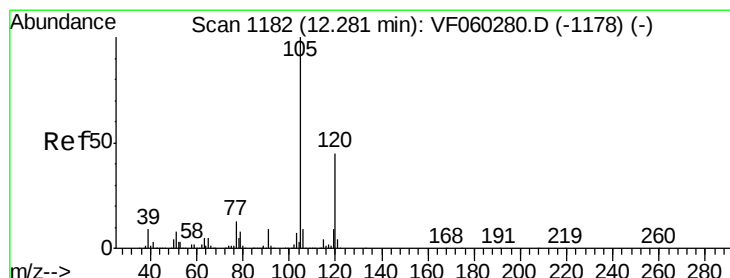
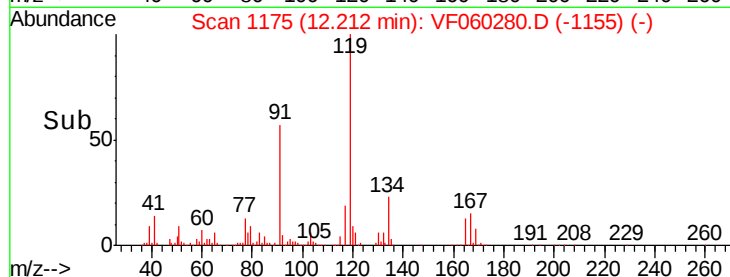
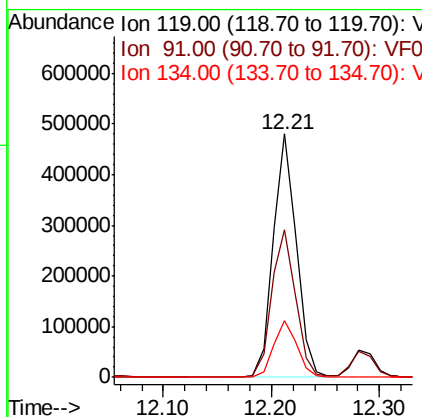
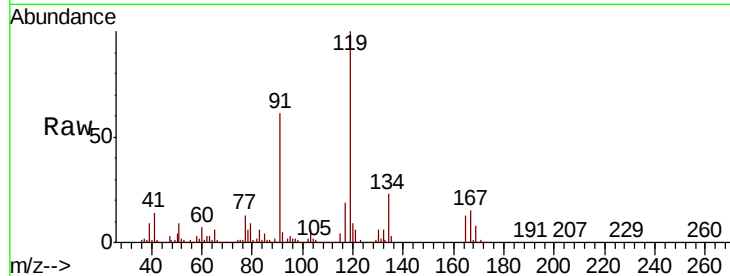
#83  
 tert-Butylbenzene  
 Concen: 47.89 ug/l  
 RT: 12.21 min Scan# 1175  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 60.7  | 30.3  | 91.0  |
| 134     | 23.2  | 11.6  | 34.8  |

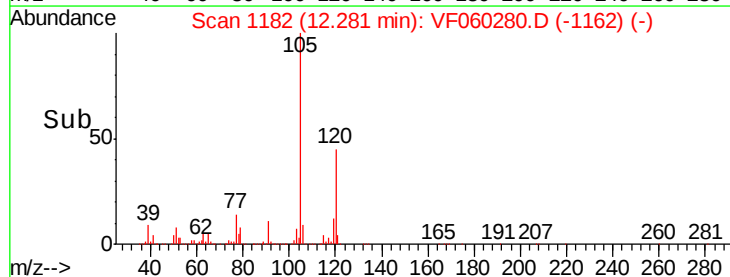
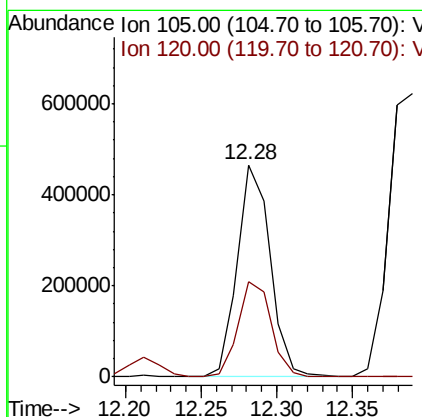
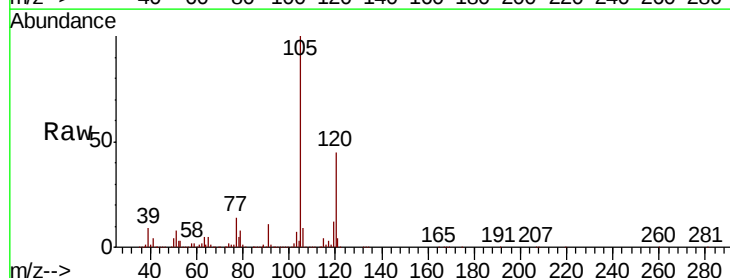
Manual Integrations  
 APPROVED

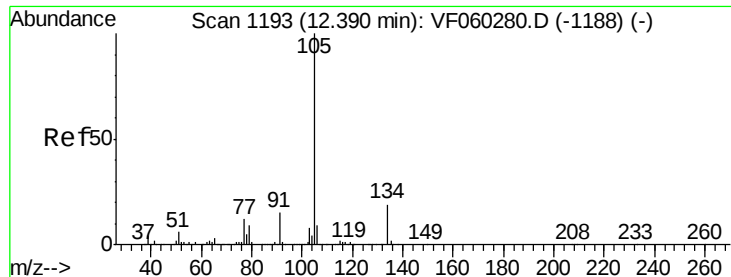
apatel  
 9/20/2018 11:54:47 AM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 46.23 ug/l  
 RT: 12.28 min Scan# 1182  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.7  | 22.4  | 67.0  |





#85

sec-Butylbenzene

Concen: 48.33 ug/l

RT: 12.39 min Scan# 1193

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 1015942

Ion Ratio Lower Upper

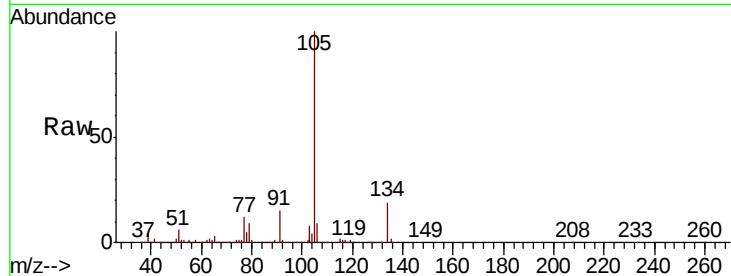
105 100

134 19.1 9.6 28.6

Manual Integrations  
APPROVED

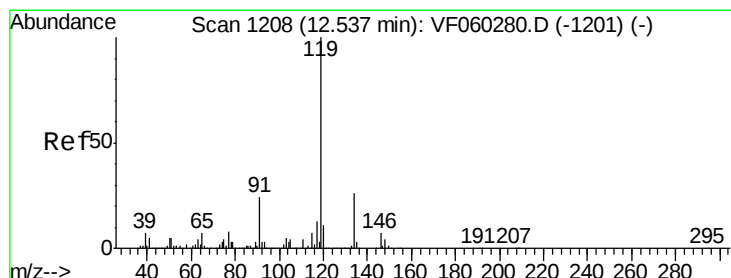
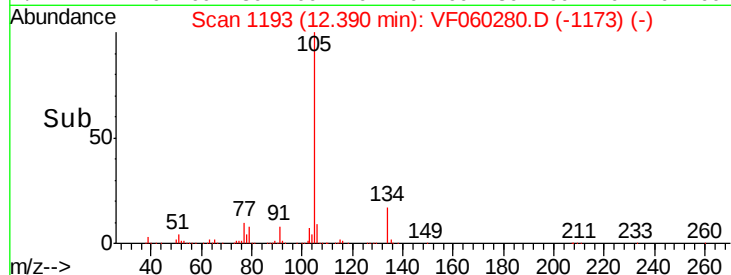
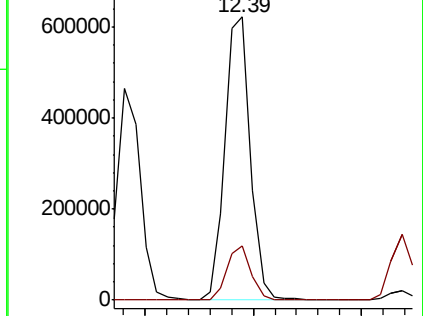
apatel

9/20/2018 11:54:47 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 48.11 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

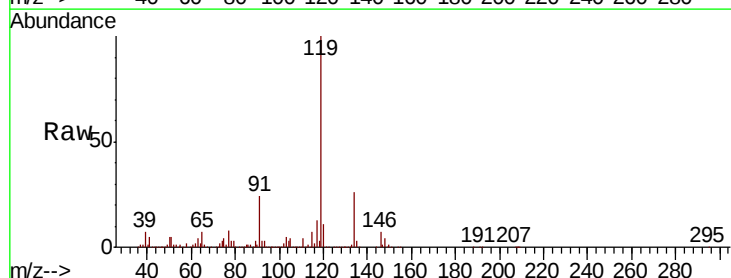
Tgt Ion:119 Resp: 800318

Ion Ratio Lower Upper

119 100

134 25.8 12.9 38.7

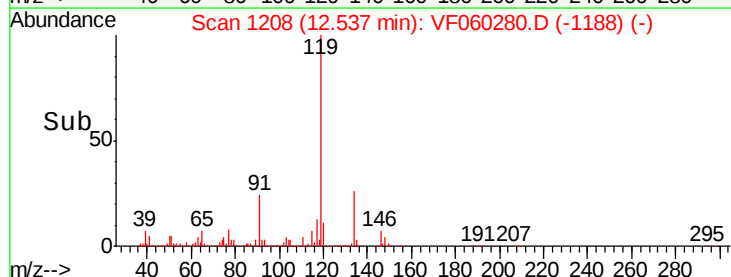
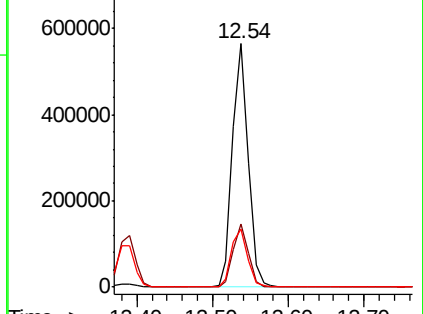
91 23.8 11.9 35.7

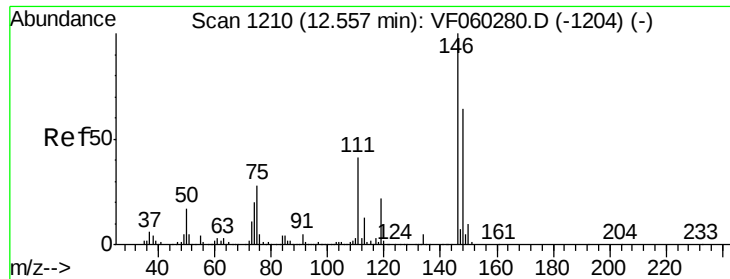


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





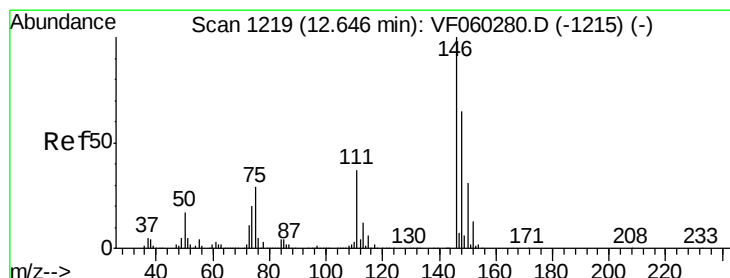
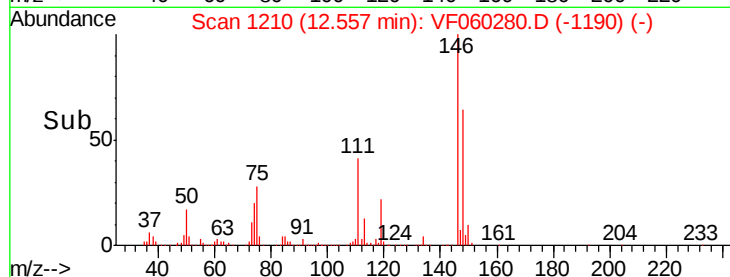
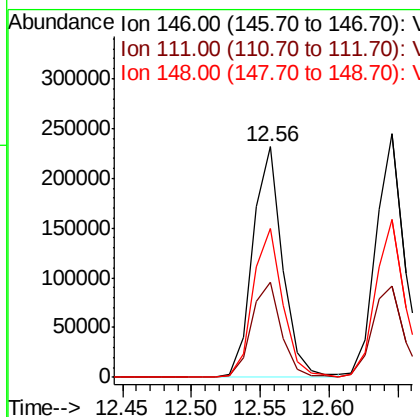
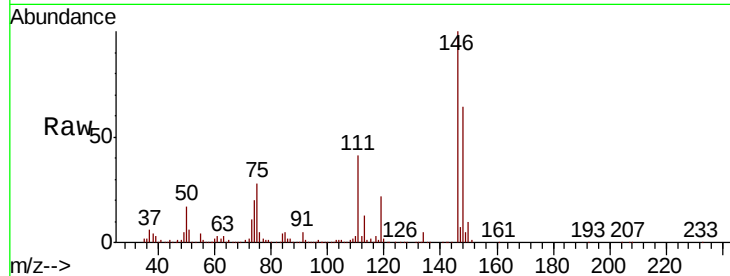
#87  
 1,3-Dichlorobenzene  
 Concen: 46.66 ug/l  
 RT: 12.56 min Scan# 1210  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.1  | 20.5  | 61.6  |
| 148     | 64.4  | 32.2  | 96.6  |

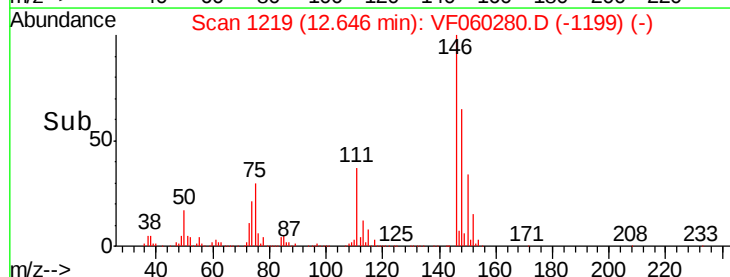
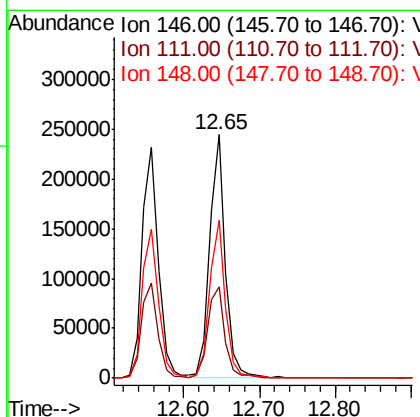
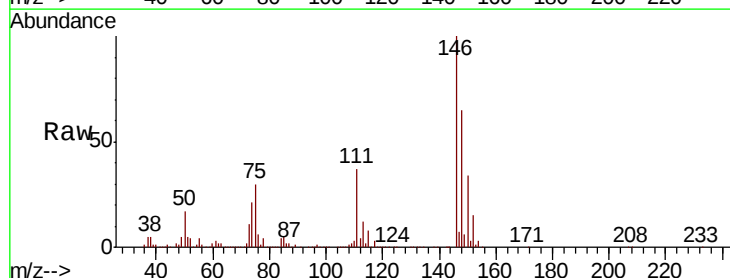
Manual Integrations  
 APPROVED

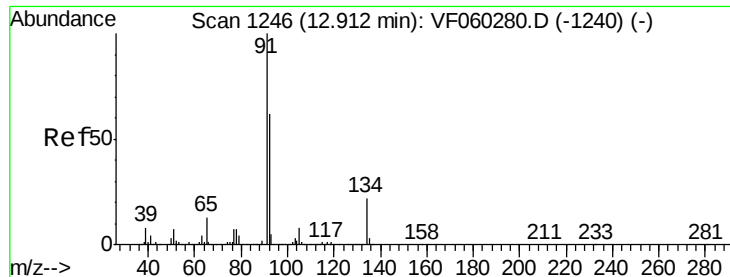
apatel  
 9/20/2018 11:54:47 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 48.35 ug/l  
 RT: 12.65 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.4  | 18.7  | 56.1  |
| 148     | 64.7  | 32.4  | 97.0  |





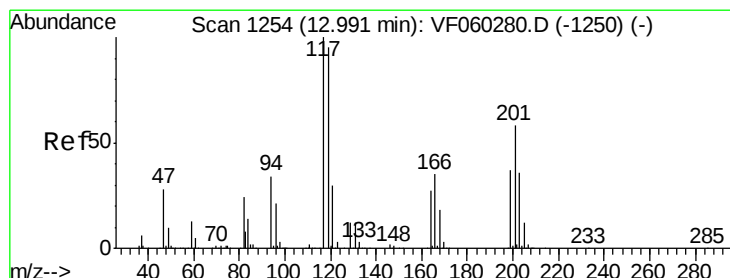
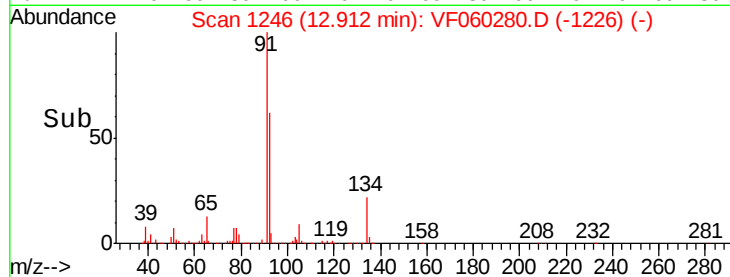
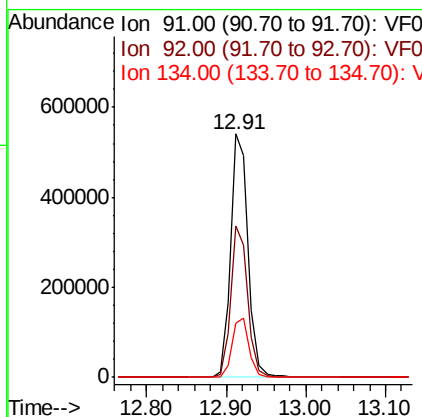
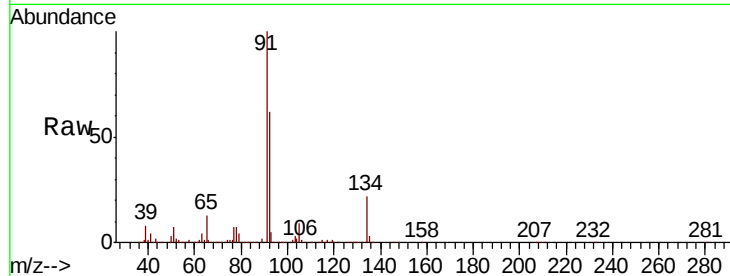
#89  
n-Butylbenzene  
Concen: 47.26 ug/l  
RT: 12.91 min Scan# 1246  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 831611 |       |       |
| 92      | 62.3  | 31.1   | 93.5  |       |
| 134     | 22.0  | 11.0   | 33.0  |       |

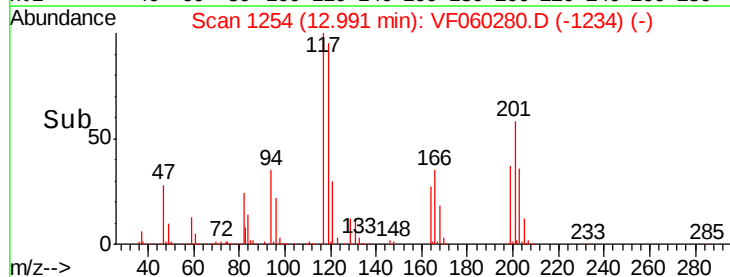
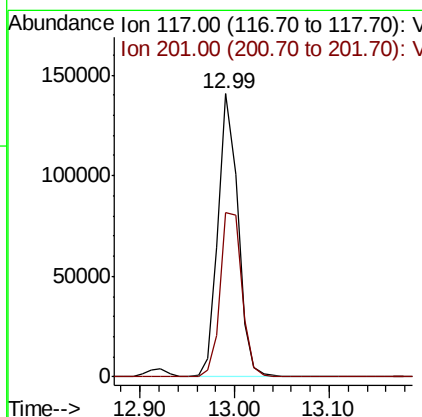
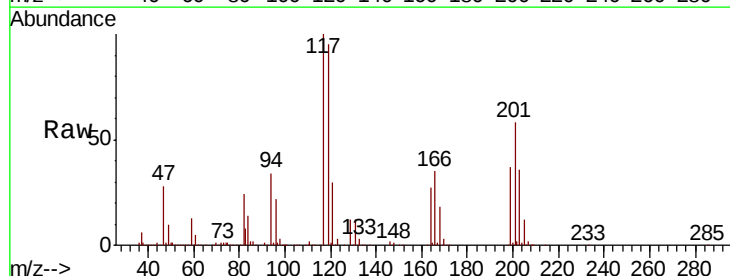
Manual Integrations  
APPROVED

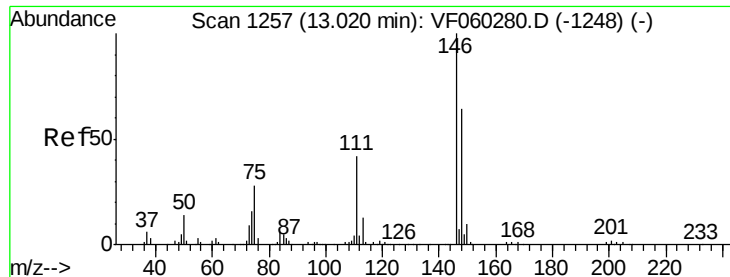
apatel  
9/20/2018 11:54:47 AM



#90  
Hexachloroethane  
Concen: 48.67 ug/l  
RT: 12.99 min Scan# 1254  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 206774 |       |       |
| 201     | 58.0  | 29.0   | 87.0  |       |





#91

1,2-Dichlorobenzene

Concen: 46.47 ug/l

RT: 13.02 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

Instrument :

MSVOA\_F

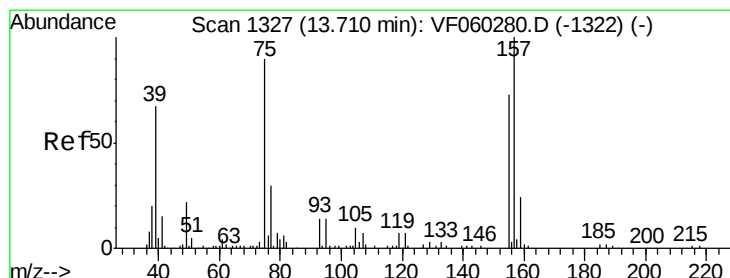
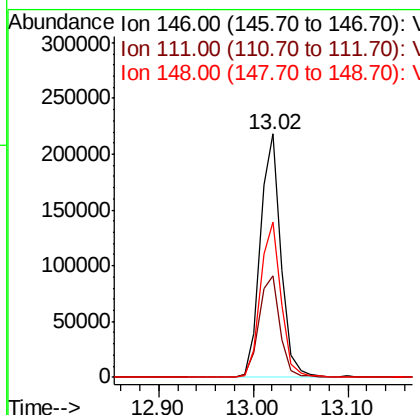
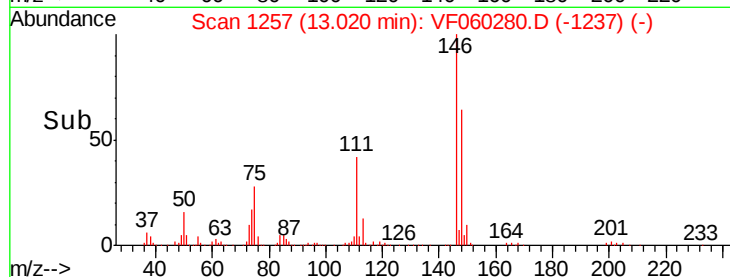
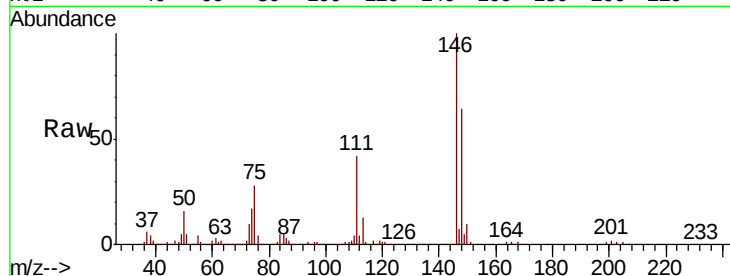
ClientSampleId :

VSTDICCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 332200 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 41.9  | 20.9  | 62.8   |
| 148       | 63.9  | 31.9  | 95.9   |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.53 ug/l

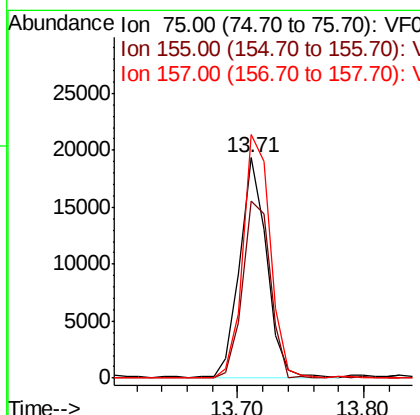
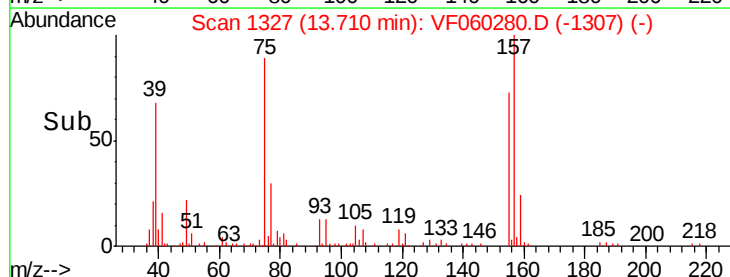
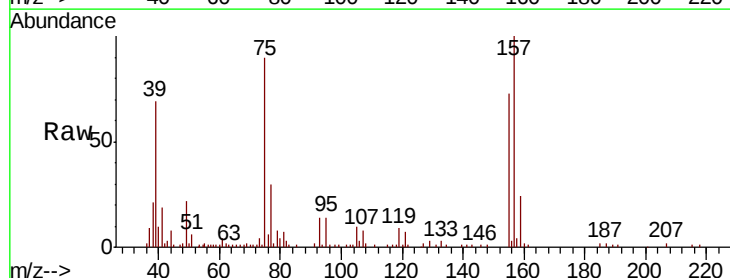
RT: 13.71 min Scan# 1327

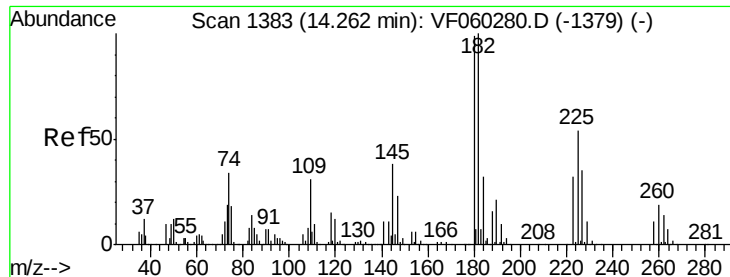
Delta R.T. 0.00 min

Lab File: VF060280.D

Acq: 19 Sep 2018 14:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 28810 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 83.8  | 41.9  | 125.7 |
| 157       | 114.7 | 57.4  | 172.0 |





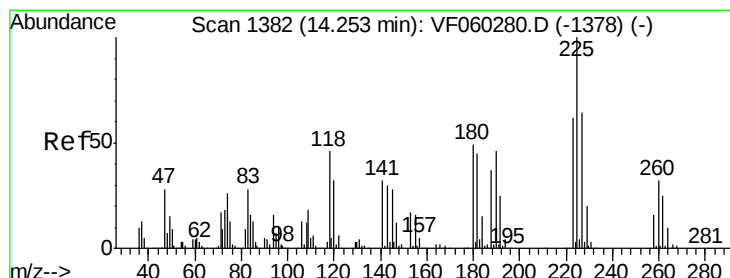
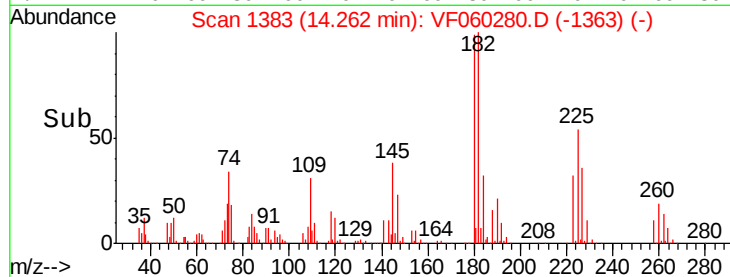
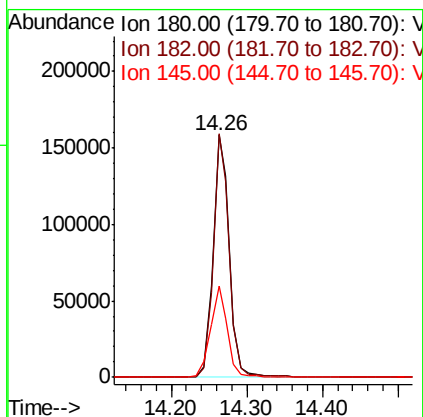
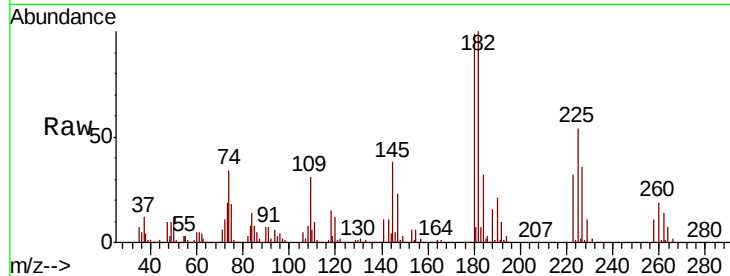
#93  
 1,2,4-Trichlorobenzene  
 Concen: 46.55 ug/l  
 RT: 14.26 min Scan# 1383  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   |      |       |       |
| 182     | 100.7 | 50.3 | 151.0 |       |
| 145     | 37.9  | 18.9 | 56.9  |       |

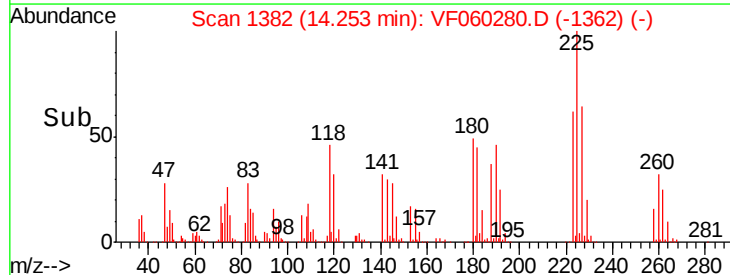
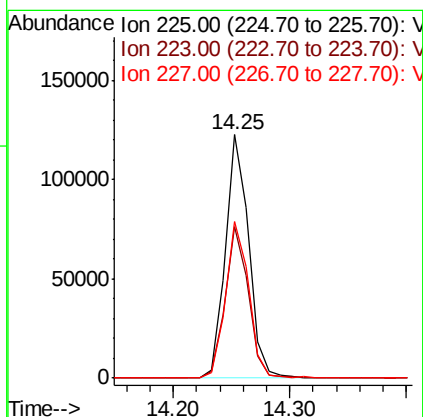
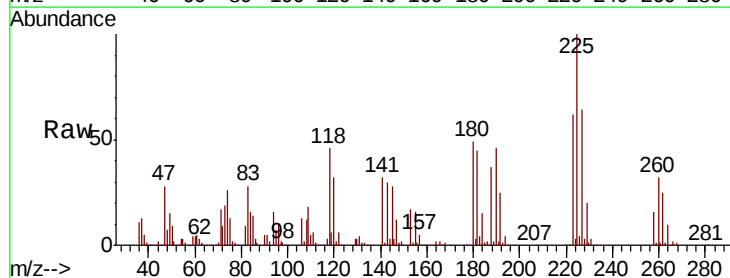
Manual Integrations  
 APPROVED

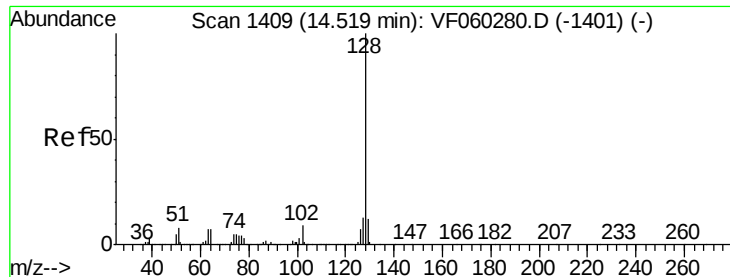
apatel  
 9/20/2018 11:54:47 AM



#94  
 Hexachlorobutadiene  
 Concen: 48.34 ug/l  
 RT: 14.25 min Scan# 1382  
 Delta R.T. 0.00 min  
 Lab File: VF060280.D  
 Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   |      |       |       |
| 223     | 62.4  | 31.2 | 93.6  |       |
| 227     | 64.4  | 32.2 | 96.6  |       |





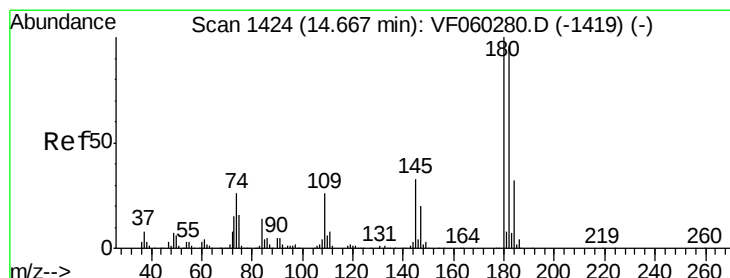
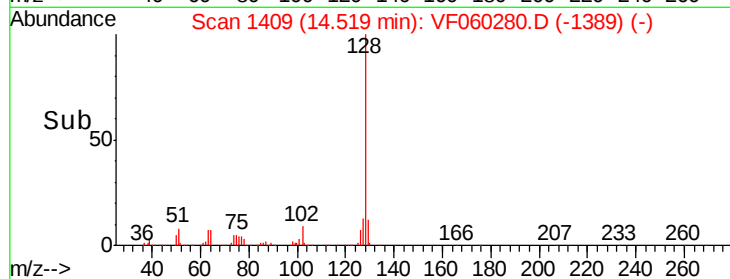
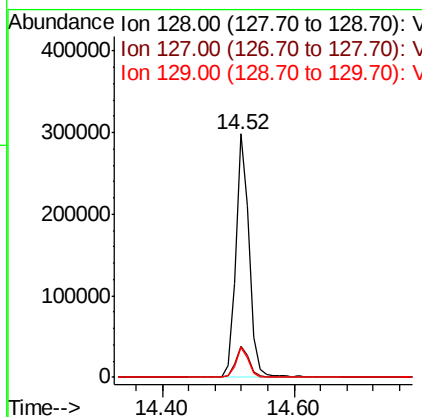
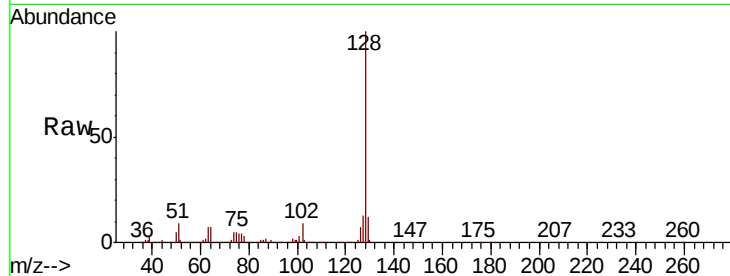
#95  
Naphthalene  
Concen: 46.54 ug/l  
RT: 14.52 min Scan# 1409  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.6  | 10.1  | 15.1  |
| 129     | 12.3  | 9.8   | 14.8  |

Manual Integrations  
APPROVED

apatel  
9/20/2018 11:54:47 AM



#96  
1,2,3-Trichlorobenzene  
Concen: 49.17 ug/l  
RT: 14.67 min Scan# 1424  
Delta R.T. 0.00 min  
Lab File: VF060280.D  
Acq: 19 Sep 2018 14:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.6  | 47.8  | 143.4 |
| 145     | 32.7  | 16.4  | 49.1  |

