

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030916\  
 Data File : BF085315.D  
 Acq On : 9 Mar 2016 23:01  
 Operator : UM/SJ  
 Sample : H1724-08MS  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

Manual Integrations  
 APPROVED

UMANGI  
 3/10/2016 3:03:36 PM

Quant Time: Mar 10 10:10:35 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 173818   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 8.23  | 136  | 632616   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.99  | 164  | 311476   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.48 | 188  | 599962   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 14.12 | 240  | 443774   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.58 | 264  | 264796   | 20.00 | ng    | -0.03    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.56  | 112 | 956802  | 92.33  | ng | -0.02 |
| 7) Phenol-d6             | 6.57  | 99  | 1299288 | 95.70  | ng | -0.03 |
| 23) Nitrobenzene-d5      | 7.51  | 82  | 772132  | 65.31  | ng | -0.03 |
| 41) 2,4,6-Tribromophenol | 10.78 | 330 | 276346  | 103.69 | ng | -0.03 |
| 44) 2-Fluorobiphenyl     | 9.30  | 172 | 1219400 | 59.54  | ng | -0.05 |
| 78) Terphenyl-d14        | 13.07 | 244 | 1195373 | 62.53  | ng | -0.02 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.69 | 88  | 146960  | 27.73 | ng | 98     |
| 3) Pyridine                    | 3.44 | 79  | 446577  | 33.67 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 3.38 | 42  | 180498  | 31.80 | ng | 94     |
| 6) Aniline                     | 6.61 | 93  | 462890  | 24.33 | ng | 96     |
| 8) 2-Chlorophenol              | 6.73 | 128 | 434171  | 34.80 | ng | 94     |
| 9) Benzaldehyde                | 6.49 | 77  | 107945  | 13.48 | ng | 91     |
| 10) Phenol                     | 6.58 | 94  | 461231m | 31.72 | ng |        |
| 11) bis(2-Chloroethyl)ether    | 6.68 | 93  | 370922  | 30.71 | ng | 91     |
| 12) 1,3-Dichlorobenzene        | 6.88 | 146 | 404011m | 30.16 | ng |        |
| 13) 1,4-Dichlorobenzene        | 6.96 | 146 | 413150  | 30.78 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 7.12 | 146 | 404004  | 33.17 | ng | 95     |
| 15) Benzyl Alcohol             | 7.09 | 79  | 392235  | 39.36 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.22 | 45  | 487975  | 28.03 | ng | 98     |
| 17) 2-Methylphenol             | 7.20 | 107 | 367119  | 36.06 | ng | 99     |
| 18) Hexachloroethane           | 7.46 | 117 | 147797  | 29.85 | ng | 92     |
| 19) n-Nitroso-di-n-propylamine | 7.36 | 70  | 296472  | 33.51 | ng | 96     |
| 20) 3+4-Methylphenols          | 7.35 | 107 | 413442  | 34.29 | ng | 92     |
| 22) Acetophenone               | 7.36 | 105 | 544024  | 35.23 | ng | # 90   |
| 24) Nitrobenzene               | 7.53 | 77  | 404689  | 33.70 | ng | # 83   |
| 25) Isophorone                 | 7.77 | 82  | 738615  | 33.71 | ng | # 93   |
| 26) 2-Nitrophenol              | 7.84 | 139 | 190088  | 32.53 | ng | # 69   |
| 27) 2,4-Dimethylphenol         | 7.89 | 122 | 362311  | 33.92 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.98 | 93  | 463029  | 37.95 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.08 | 162 | 299167  | 34.73 | ng | 89     |
| 30) 1,2,4-Trichlorobenzene     | 8.17 | 180 | 326833  | 35.10 | ng | 98     |
| 31) Naphthalene                | 8.25 | 128 | 1064050 | 34.21 | ng | 99     |
| 33) 4-Chloroaniline            | 8.30 | 127 | 279004  | 22.17 | ng | 94     |
| 34) Hexachlorobutadiene        | 8.37 | 225 | 156658  | 32.33 | ng | 97     |
| 35) Caprolactam                | 8.66 | 113 | 107858m | 38.34 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.78 | 107 | 342841  | 35.08 | ng | 98     |
| 37) 2-Methylnaphthalene        | 8.95 | 142 | 734414  | 36.79 | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.11 | 216 | 279931  | 31.43 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 9.10 | 237 | 282346  | 58.77 | ng | 100    |
| 42) 2,4,6-Trichlorophenol      | 9.22 | 196 | 251869  | 37.98 | ng | 98     |

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030916\  
 Data File : BF085315.D  
 Acq On : 9 Mar 2016 23:01  
 Operator : UM/SJ  
 Sample : H1724-08MS  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

Manual Integrations  
 APPROVED

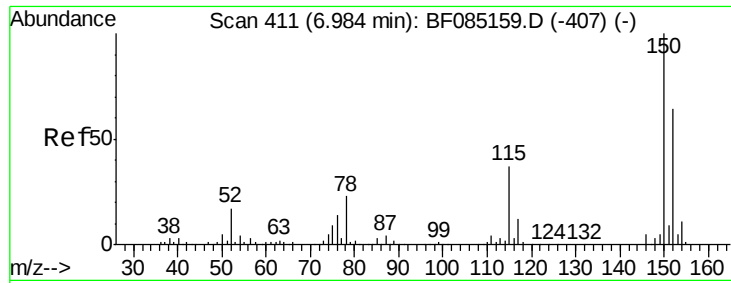
UMANGI  
 3/10/2016 3:03:36 PM

Quant Time: Mar 10 10:10:35 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 43) 2,4,5-Trichlorophenol      | 9.26  | 196  | 223547   | 35.56 | ng    | 95       |
| 45) 1,1'-Biphenyl              | 9.41  | 154  | 795993   | 29.91 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 9.43  | 162  | 635200   | 31.31 | ng    | 92       |
| 47) 2-Nitroaniline             | 9.53  | 65   | 218017   | 34.69 | ng    | # 55     |
| 48) Acenaphthylene             | 9.85  | 152  | 1097233  | 34.76 | ng    | 98       |
| 49) Dimethylphthalate          | 9.72  | 163  | 1155784  | 48.34 | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 192552   | 37.65 | ng    | 94       |
| 51) Acenaphthene               | 10.02 | 154  | 661310   | 34.50 | ng    | 98       |
| 52) 3-Nitroaniline             | 9.94  | 138  | 180990   | 29.58 | ng    | 88       |
| 53) 2,4-Dinitrophenol          | 10.05 | 184  | 62765    | 29.78 | ng    | # 33     |
| 54) Dibenzofuran               | 10.20 | 168  | 916676   | 36.50 | ng    | 98       |
| 55) 4-Nitrophenol              | 10.10 | 139  | 331797   | 69.00 | ng    | 95       |
| 56) 2,4-Dinitrotoluene         | 10.17 | 165  | 221555   | 33.85 | ng    | 97       |
| 57) Fluorene                   | 10.54 | 166  | 713671   | 36.18 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.31 | 232  | 171056   | 38.73 | ng    | 97       |
| 59) Diethylphthalate           | 10.41 | 149  | 806973   | 34.78 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 10.53 | 204  | 314243   | 32.74 | ng    | 96       |
| 61) 4-Nitroaniline             | 10.55 | 138  | 198577   | 34.70 | ng    | 98       |
| 62) Azobenzene                 | 10.69 | 77   | 778557   | 34.06 | ng    | 98       |
| 64) 4,6-Dinitro-2-methylphenol | 10.58 | 198  | 106064   | 29.53 | ng    | 98       |
| 65) n-Nitrosodiphenylamine     | 10.65 | 169  | 662815   | 35.52 | ng    | 100      |
| 66) 4-Bromophenyl-phenylether  | 11.02 | 248  | 190582   | 32.71 | ng    | 93       |
| 67) Hexachlorobenzene          | 11.09 | 284  | 215104   | 34.61 | ng    | # 92     |
| 68) Atrazine                   | 11.18 | 200  | 229682   | 44.26 | ng    | 94       |
| 69) Pentachlorophenol          | 11.28 | 266  | 226477   | 65.65 | ng    | 98       |
| 70) Phenanthrene               | 11.50 | 178  | 1002405  | 31.88 | ng    | 99       |
| 71) Anthracene                 | 11.56 | 178  | 1134645  | 33.99 | ng    | 99       |
| 72) Carbazole                  | 11.70 | 167  | 944990   | 32.29 | ng    | 99       |
| 73) Di-n-butylphthalate        | 12.04 | 149  | 1256467  | 33.96 | ng    | 99       |
| 74) Fluoranthene               | 12.69 | 202  | 1071212  | 33.95 | ng    | 98       |
| 76) Benzidine                  | 12.80 | 184  | 359742   | 27.24 | ng    | 98       |
| 77) Pyrene                     | 12.92 | 202  | 1059195  | 31.71 | ng    | 100      |
| 79) Butylbenzylphthalate       | 13.53 | 149  | 509621   | 33.63 | ng    | 89       |
| 80) Benzo(a)anthracene         | 14.11 | 228  | 853409   | 32.12 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.06 | 252  | 140378   | 16.75 | ng    | # 95     |
| 82) Chrysene                   | 14.14 | 228  | 638499   | 26.02 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 14.09 | 149  | 633999   | 31.79 | ng    | # 98     |
| 84) Di-n-octyl phthalate       | 14.70 | 149  | 848881   | 27.95 | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.04 | 276  | 552677   | 28.86 | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 15.15 | 252  | 649279m  | 36.79 | ng    |          |
| 88) Benzo(k)fluoranthene       | 15.18 | 252  | 424447m  | 29.81 | ng    |          |
| 89) Benzo(a)pyrene             | 15.51 | 252  | 491897   | 33.63 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 17.05 | 278  | 466696   | 37.38 | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.49 | 276  | 470256   | 37.46 | ng    | 95       |

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





#1

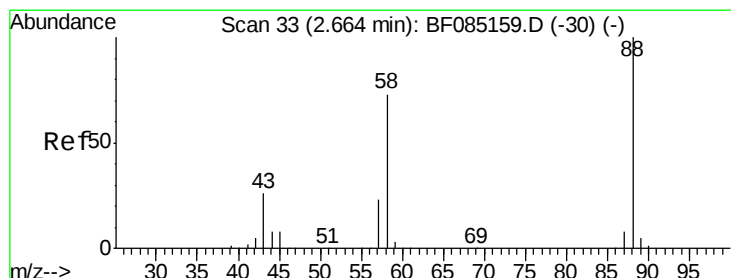
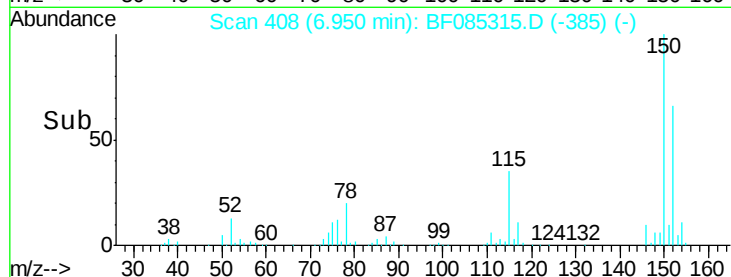
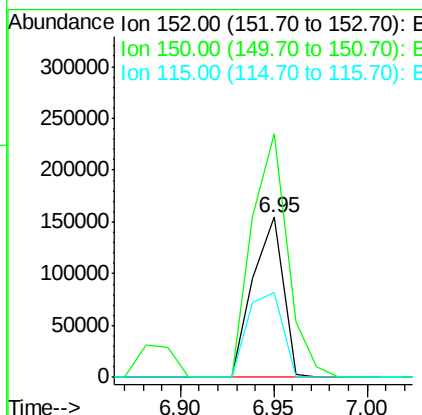
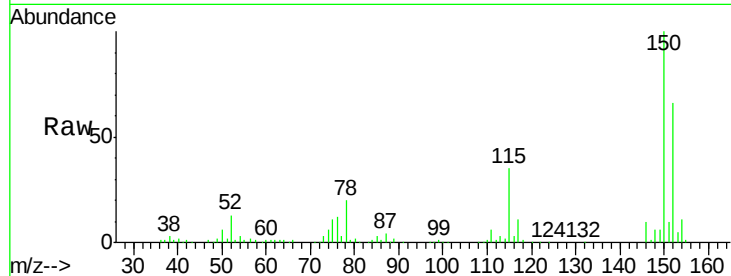
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.95 min Scan# 408  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 173818 |       |       |
| 150     | 152.0 | 124.6  | 186.8 |       |
| 115     | 53.2  | 46.6   | 70.0  |       |

Manual Integrations  
APPROVED

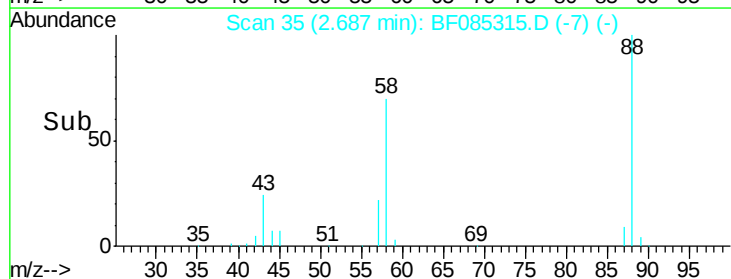
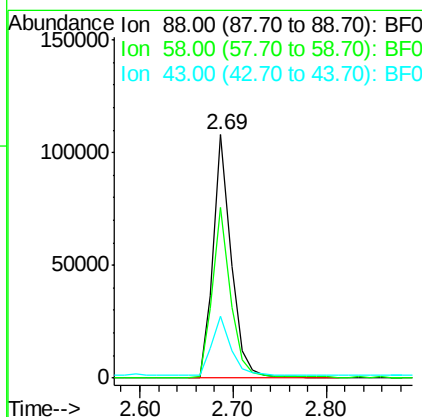
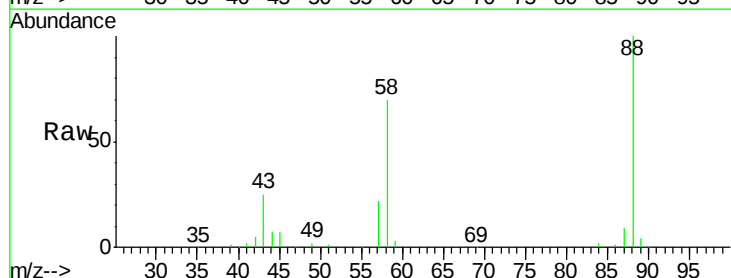
UMANGI  
3/10/2016 3:03:36 PM

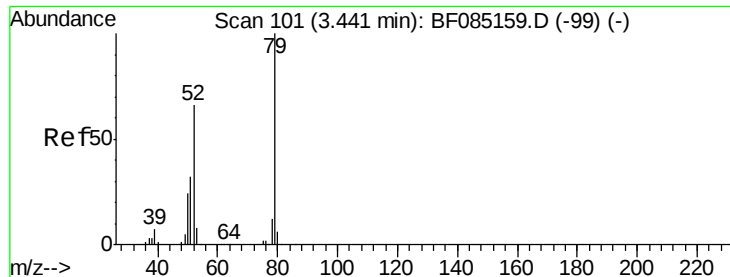


#2

1,4-Dioxane  
Concen: 27.73 ng  
RT: 2.69 min Scan# 35  
Delta R.T. 0.02 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 88      | 100   | 146960 |       |       |
| 58      | 69.9  | 57.0   | 85.6  |       |
| 43      | 25.1  | 20.5   | 30.7  |       |





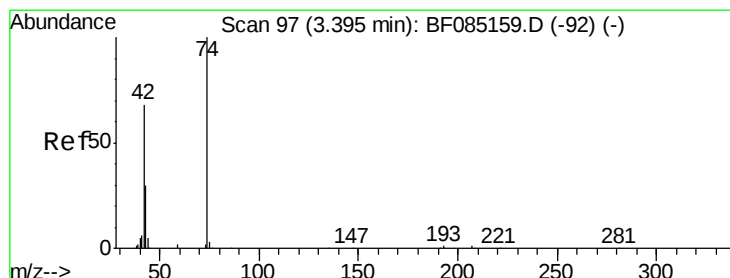
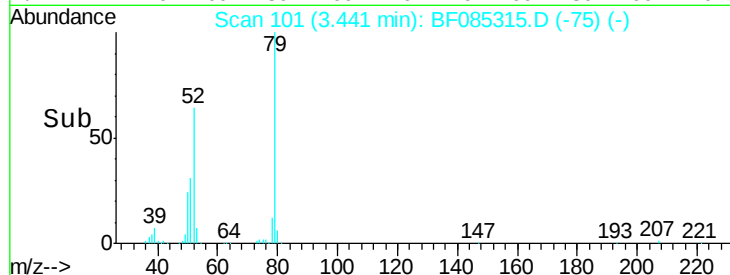
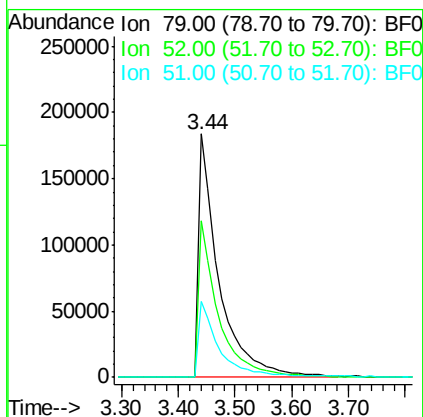
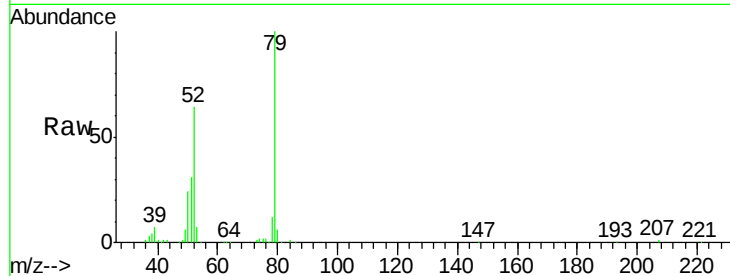
#3  
 Pyridine  
 Concen: 33.67 ng  
 RT: 3.44 min Scan# 101  
 Delta R.T. 0.00 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 64.1  | 52.6  | 79.0  |
| 51      | 31.3  | 25.8  | 38.8  |

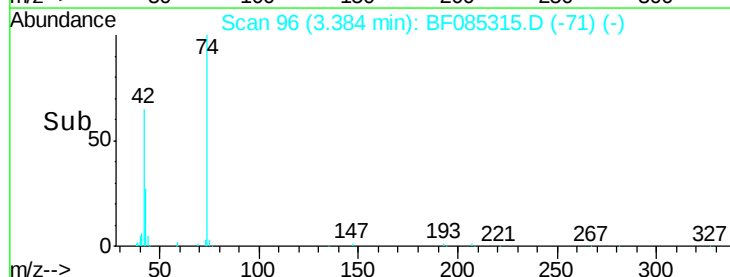
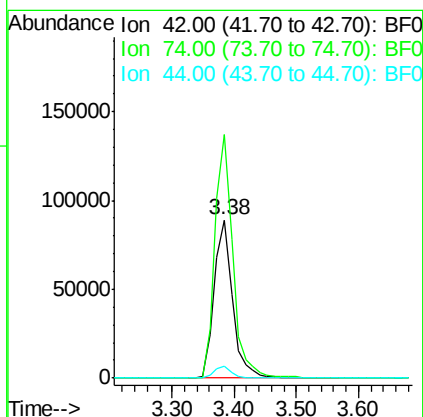
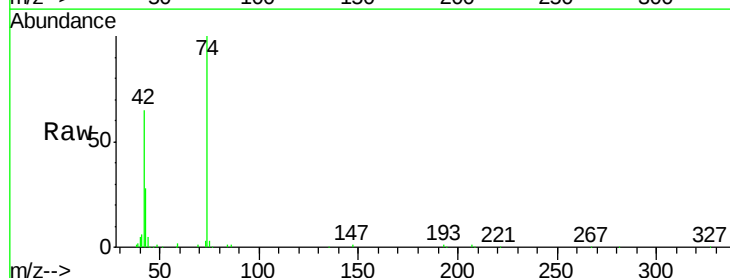
Manual Integrations  
 APPROVED

UMANGI  
 3/10/2016 3:03:36 PM



#4  
 n-Nitrosodimethylamine  
 Concen: 31.80 ng  
 RT: 3.38 min Scan# 96  
 Delta R.T. -0.01 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 153.8 | 116.8 | 175.2 |
| 44      | 7.3   | 5.5   | 8.3   |





#5

2-Fluorophenol

Concen: 92.33 ng

RT: 5.56 min Scan# 286

Delta R.T. -0.02 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

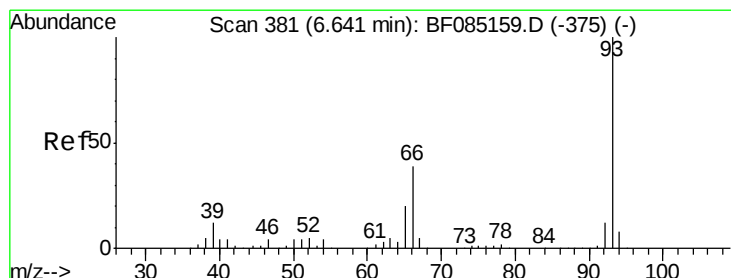
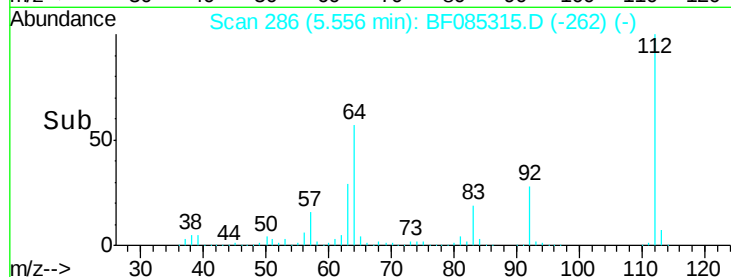
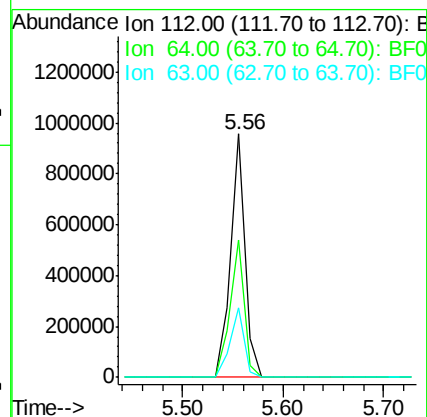
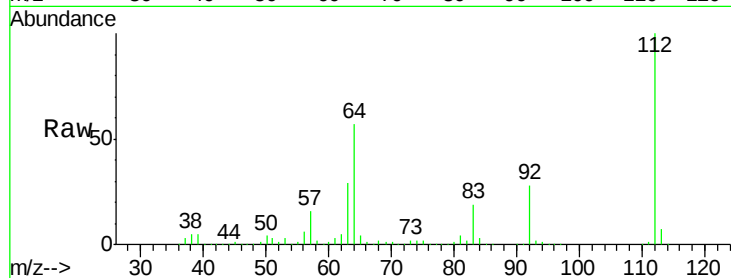
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 956802 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 56.6  | 49.0  | 73.4   |
| 63        | 28.6  | 24.8  | 37.2   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#6

Aniline

Concen: 24.33 ng

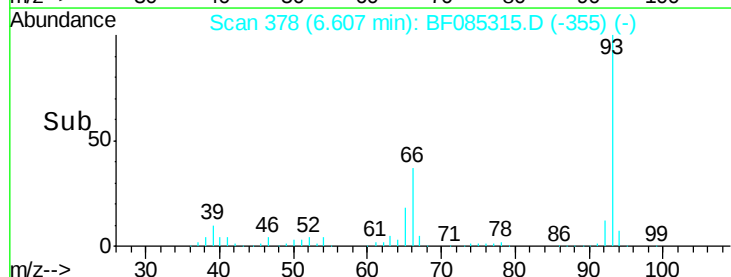
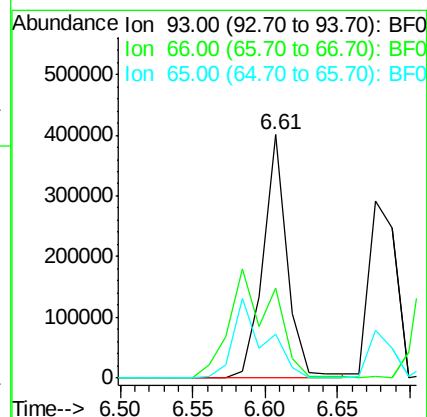
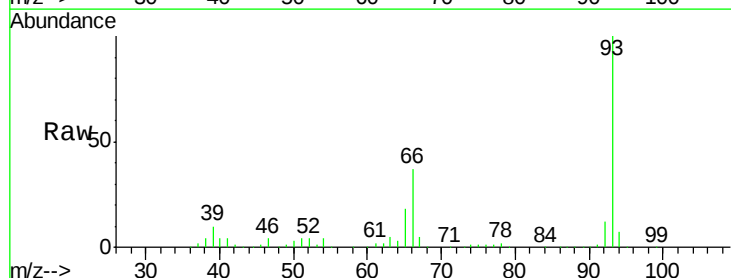
RT: 6.61 min Scan# 378

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 462890 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 66        | 36.9  | 31.6  | 47.4   |
| 65        | 18.1  | 15.8  | 23.8   |





#7

Phenol-d6

Concen: 95.70 ng

RT: 6.57 min Scan# 375

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

UST-SW-SEMS

Tgt Ion: 99 Resp: 1299288

Ion Ratio Lower Upper

99 100

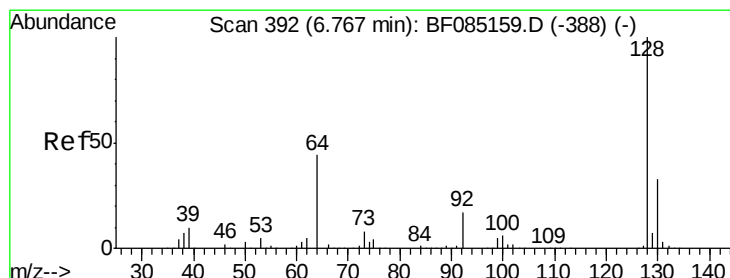
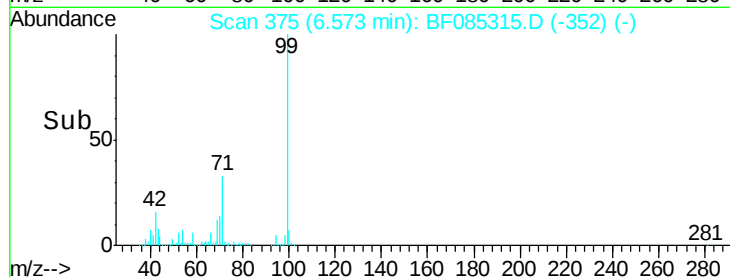
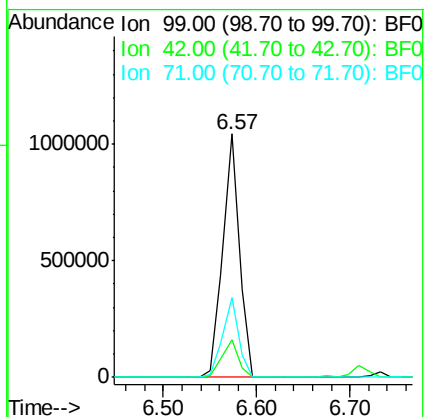
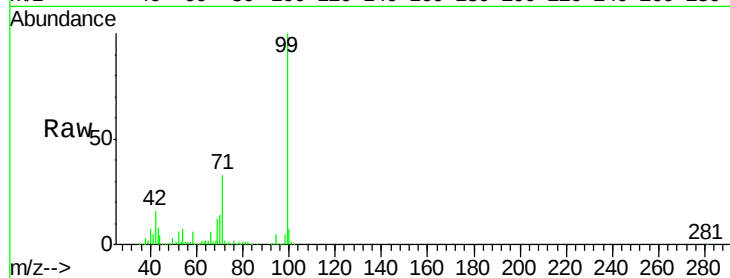
42 15.5 13.6 20.4

71 32.9 26.7 40.1

Manual Integrations  
APPROVED

UMANGI

3/10/2016 3:03:36 PM



#8

2-Chlorophenol

Concen: 34.80 ng

RT: 6.73 min Scan# 389

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

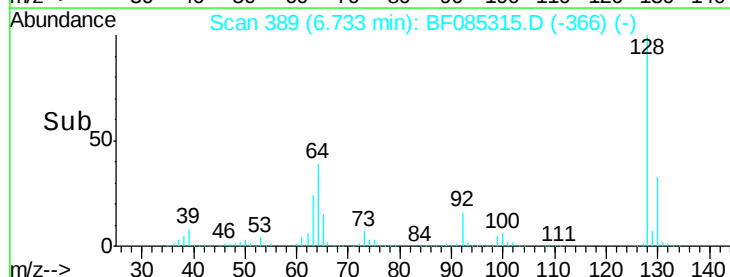
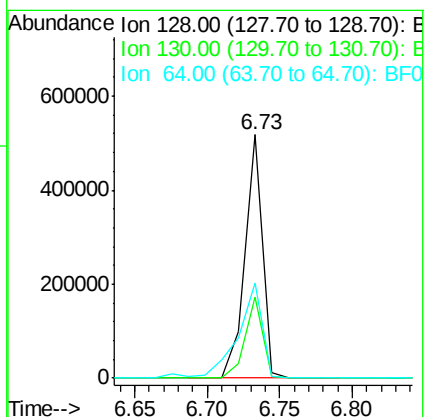
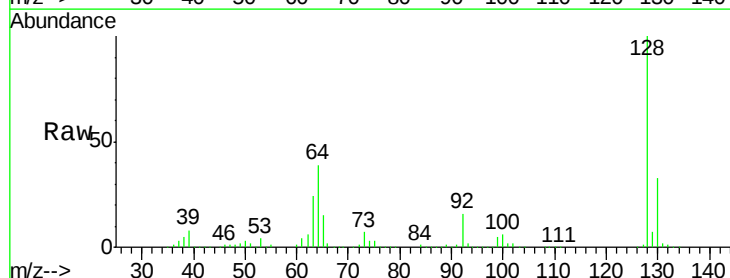
Tgt Ion: 128 Resp: 434171

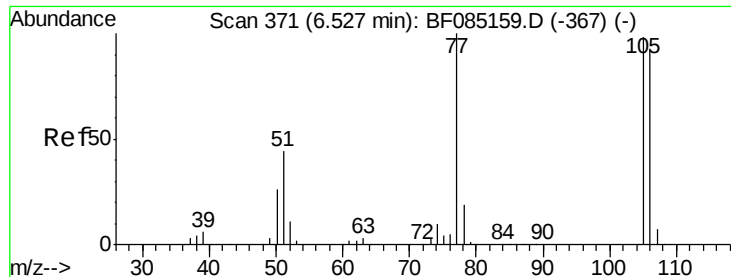
Ion Ratio Lower Upper

128 100

130 33.4 13.3 53.3

64 39.2 25.7 65.7





#9

Benzaldehyde

Concen: 13.48 ng

RT: 6.49 min Scan# 368

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

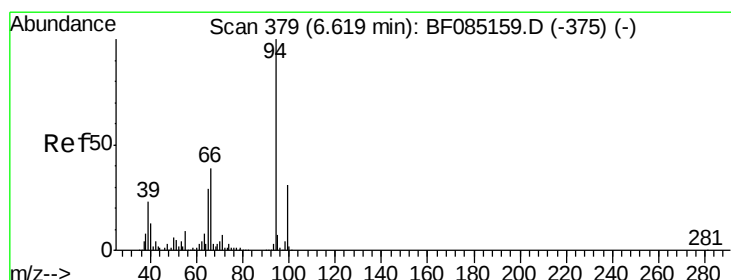
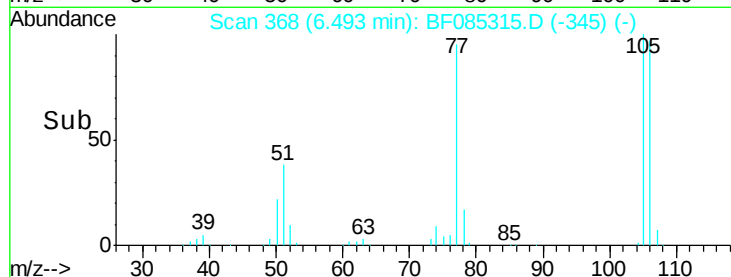
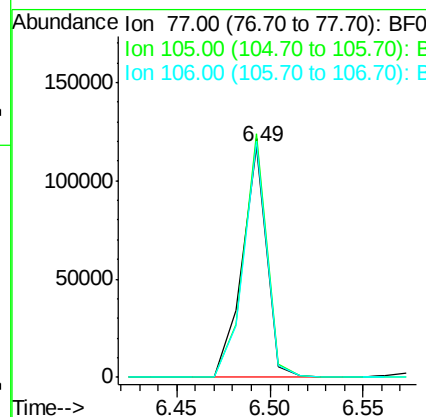
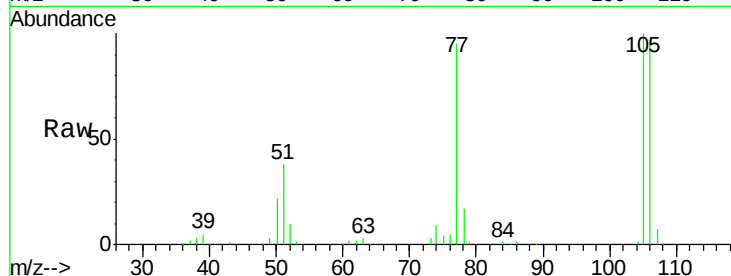
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 107945 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 105.6 | 78.2  | 118.2  |
| 106       | 102.1 | 72.9  | 112.9  |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#10

Phenol

Concen: 31.72 ng m

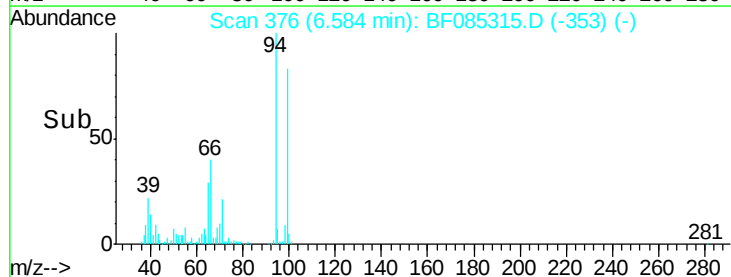
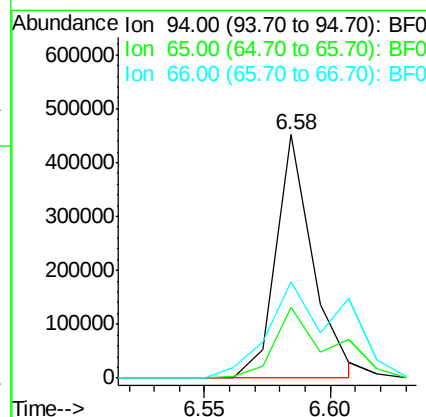
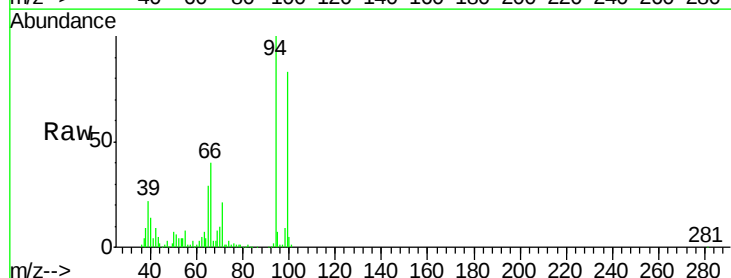
RT: 6.58 min Scan# 376

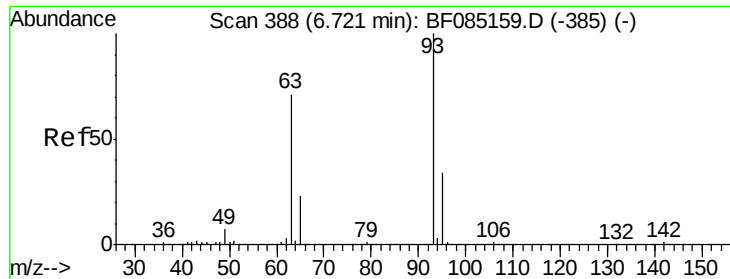
Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 461231 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 28.9  | 9.1   | 49.1   |
| 66        | 39.7  | 19.3  | 59.3   |





#11

bis(2-Chloroethyl)ether

Concen: 30.71 ng

RT: 6.68 min Scan# 384

Delta R.T. -0.05 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

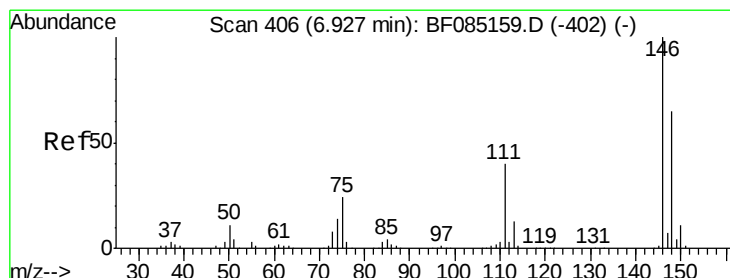
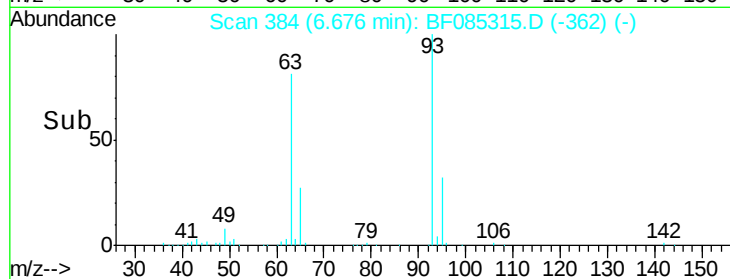
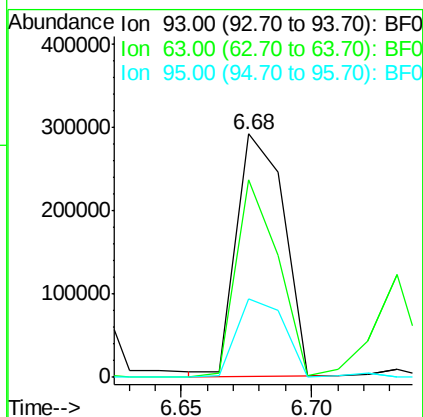
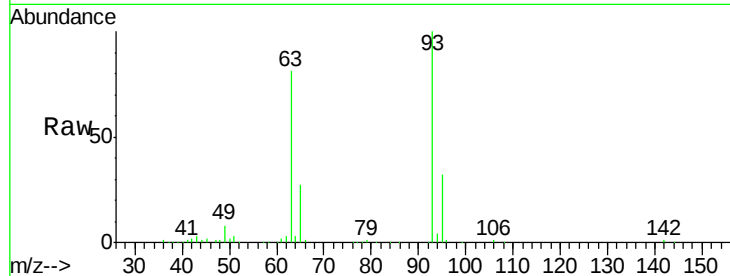
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 370922 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 81.2  | 50.9  | 90.9   |
| 95        | 32.2  | 13.7  | 53.7   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#12

1,3-Dichlorobenzene

Concen: 30.16 ng m

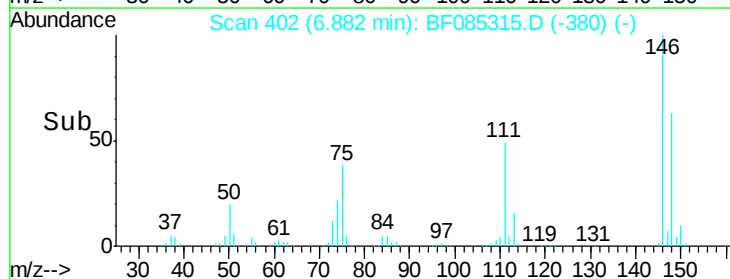
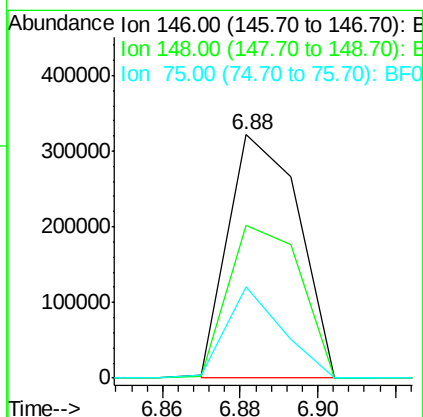
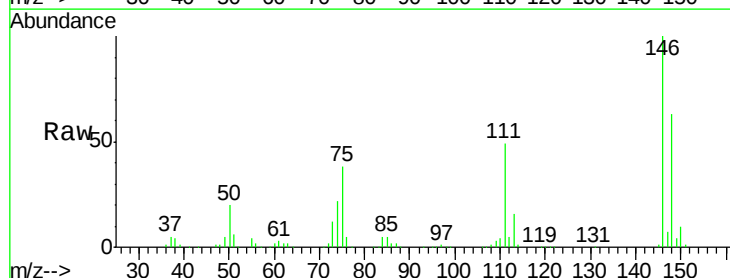
RT: 6.88 min Scan# 402

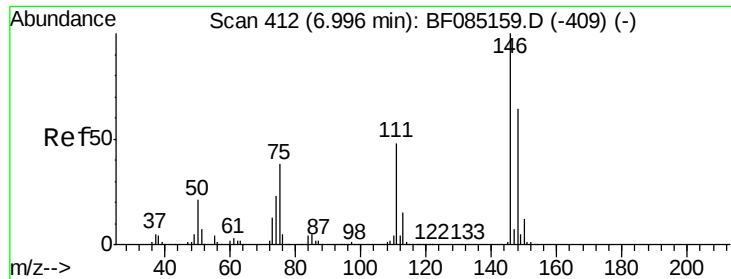
Delta R.T. -0.05 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 404011 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 62.7  | 52.1  | 78.1   |
| 75        | 37.7  | 19.5  | 29.3#  |





#13

1,4-Dichlorobenzene

Concen: 30.78 ng

RT: 6.96 min Scan# 409

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

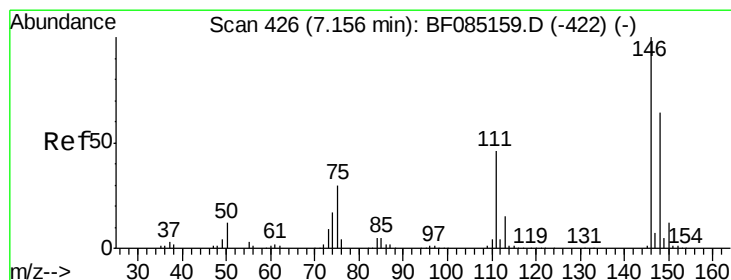
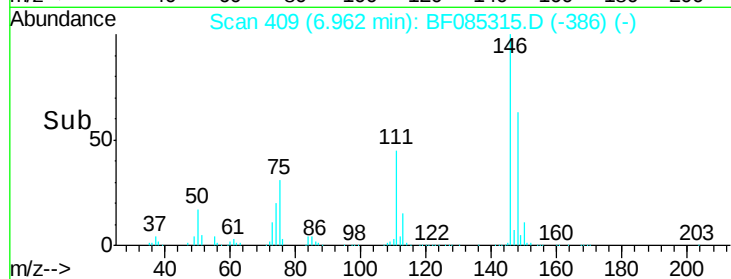
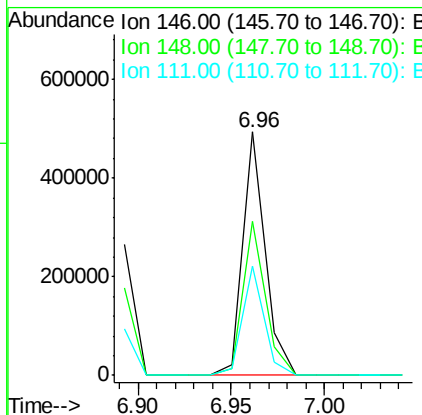
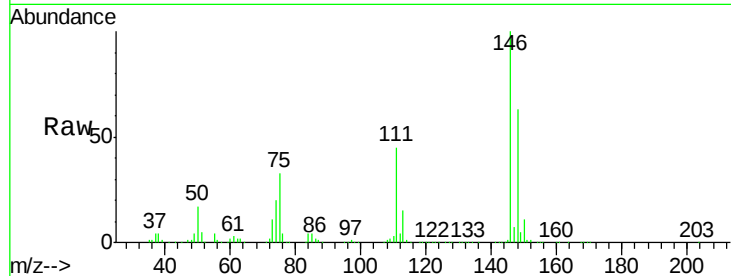
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 413150 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 63.5  | 51.3  | 76.9   |
| 111       | 44.8  | 38.4  | 57.6   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#14

1,2-Dichlorobenzene

Concen: 33.17 ng

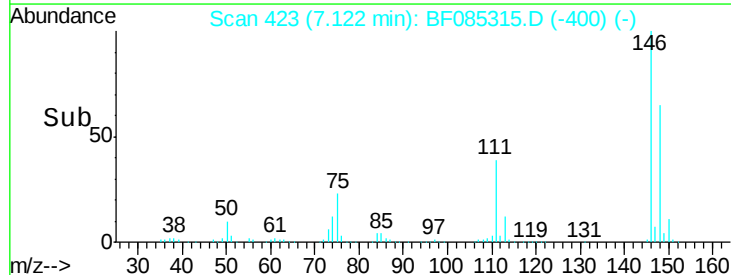
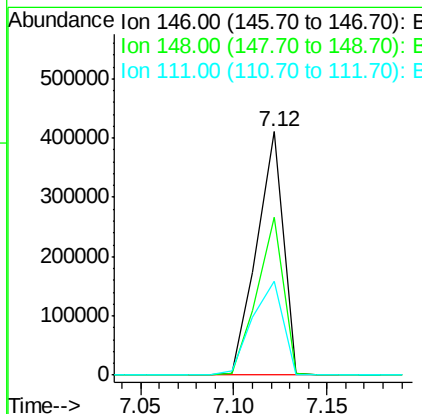
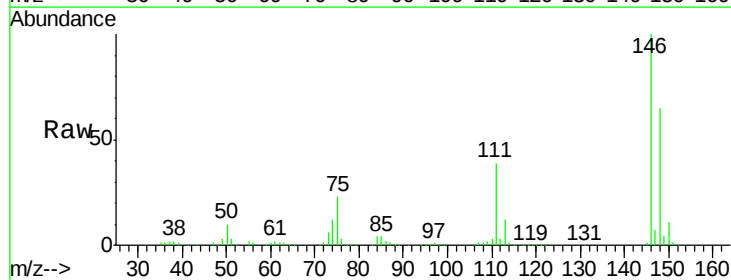
RT: 7.12 min Scan# 423

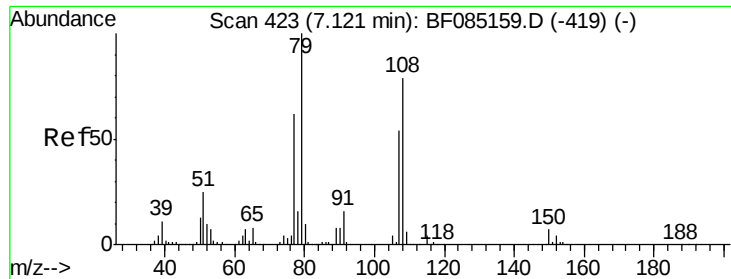
Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 404004 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 64.9  | 51.4  | 77.2   |
| 111       | 38.8  | 36.7  | 55.1   |





#15

Benzyl Alcohol

Concen: 39.36 ng

RT: 7.09 min Scan# 420

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

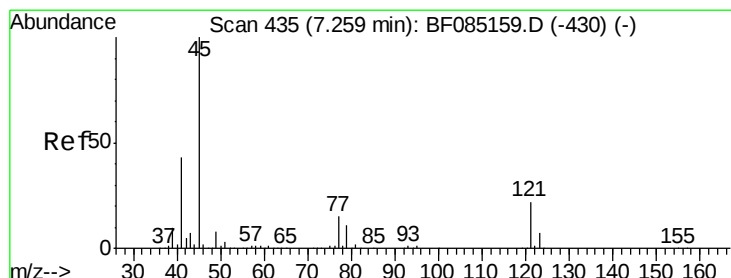
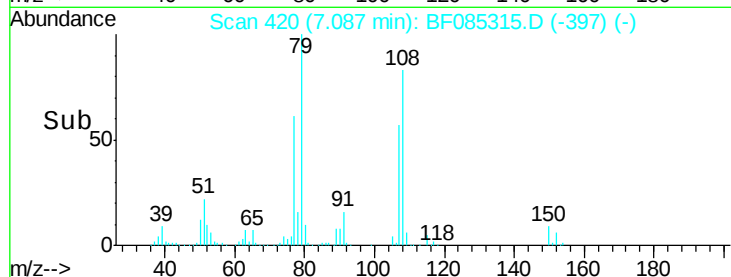
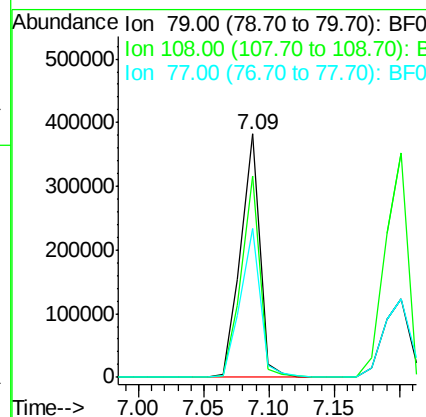
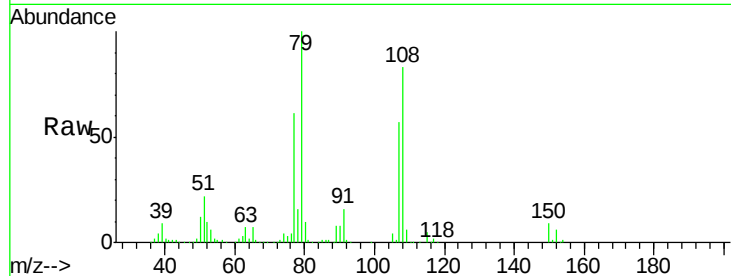
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 392235 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 108       | 82.6  | 62.9  | 94.3   |
| 77        | 61.0  | 49.5  | 74.3   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 28.03 ng

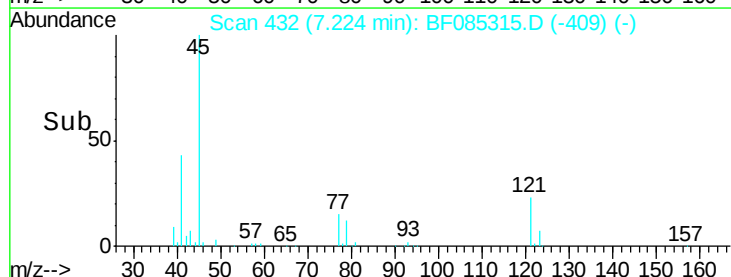
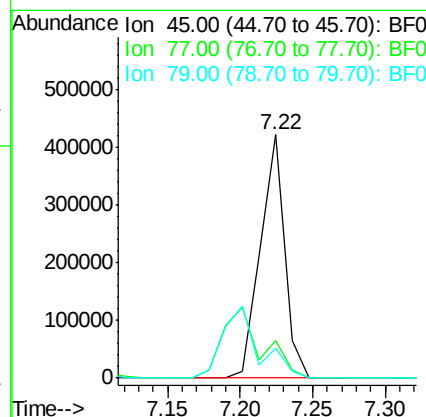
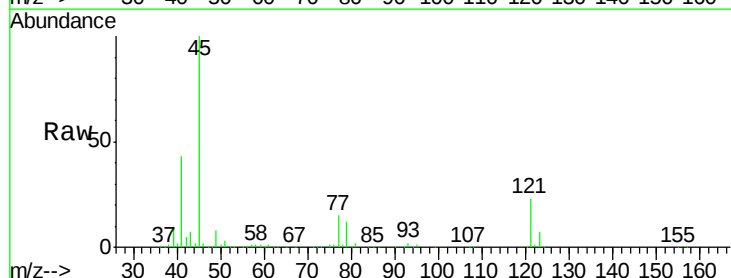
RT: 7.22 min Scan# 432

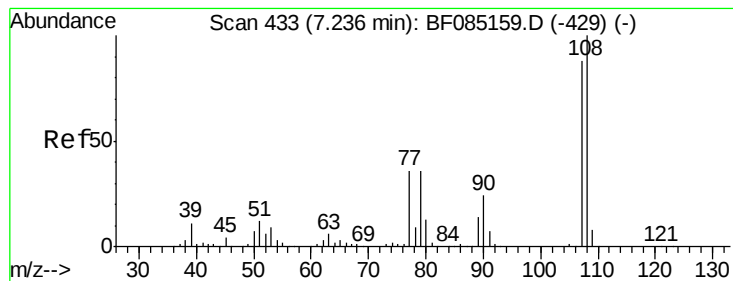
Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 487975 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 77        | 15.4  | 0.0   | 35.1   |
| 79        | 12.2  | 0.0   | 31.3   |





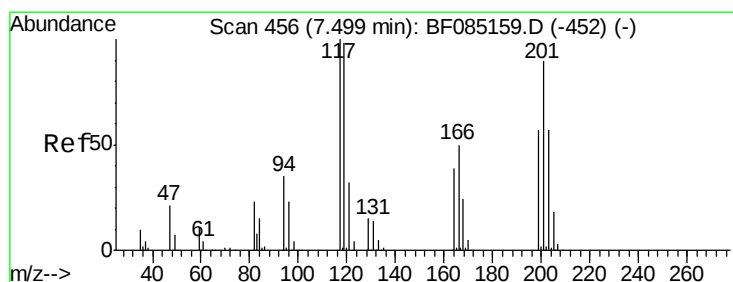
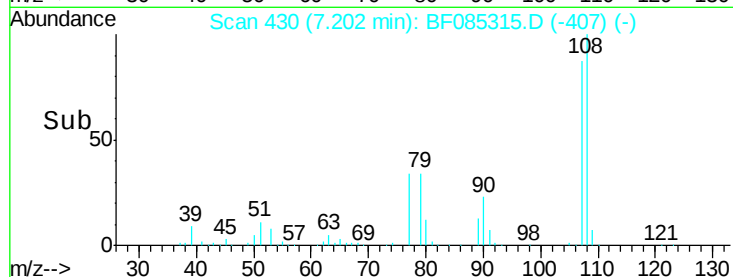
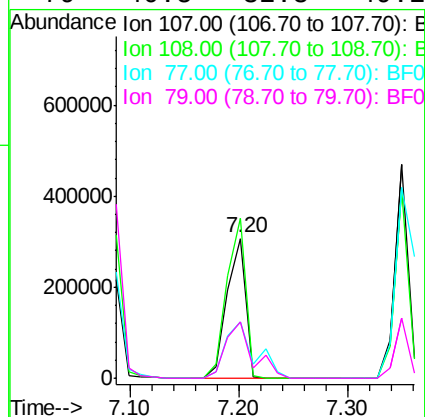
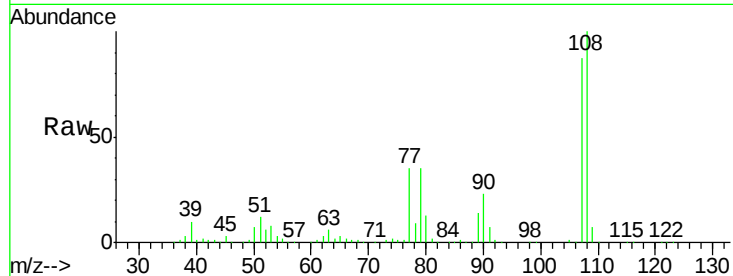
#17  
2-Methylphenol  
Concen: 36.06 ng  
RT: 7.20 min Scan# 430  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 367119 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 108       | 114.8 | 90.9  | 136.3  |
| 77        | 40.3  | 32.6  | 48.8   |
| 79        | 40.5  | 32.8  | 49.2   |

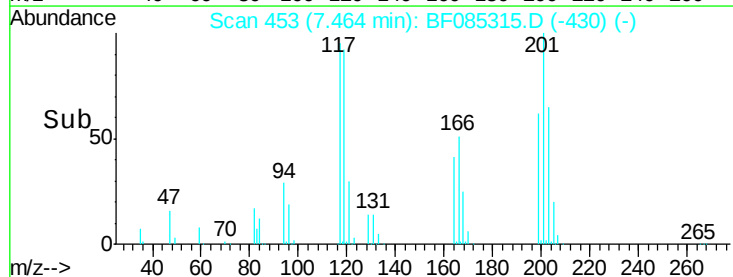
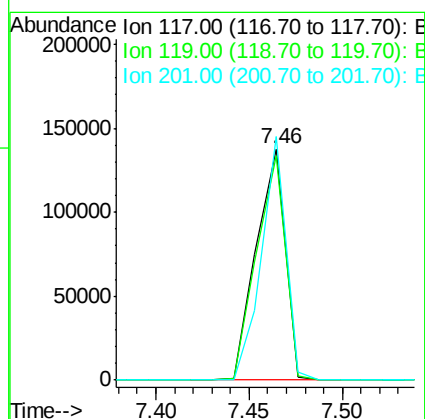
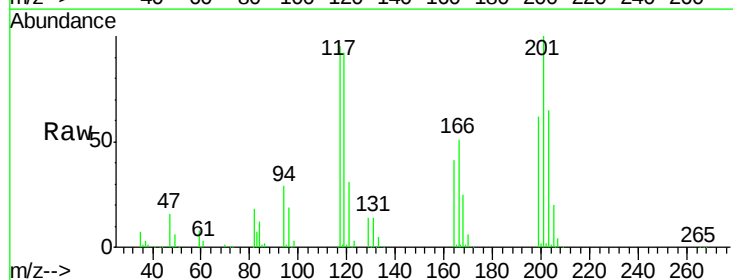
Manual Integrations  
APPROVED

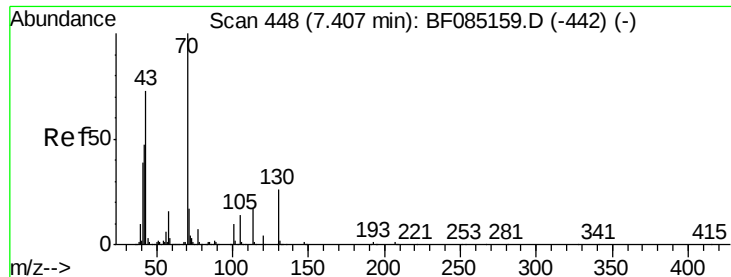
UMANGI  
3/10/2016 3:03:36 PM



#18  
Hexachloroethane  
Concen: 29.85 ng  
RT: 7.46 min Scan# 453  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 147797 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 97.0  | 78.2  | 117.4  |
| 201       | 105.4 | 72.0  | 108.0  |





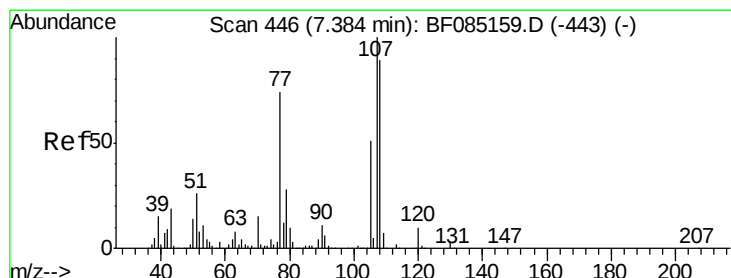
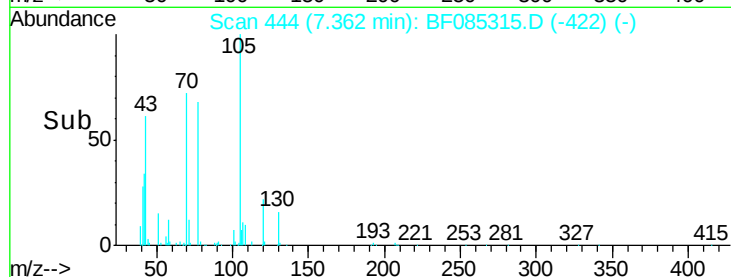
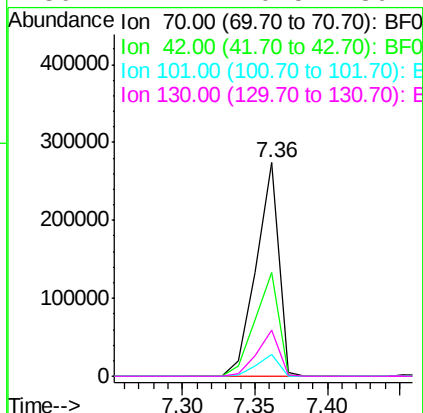
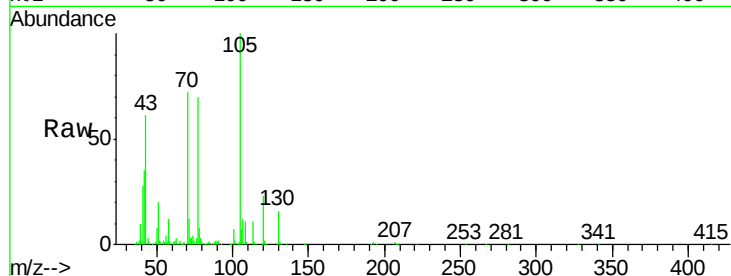
#19  
n-Nitroso-di-n-propylamine  
Concen: 33.51 ng  
RT: 7.36 min Scan# 444  
Delta R.T. -0.05 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

Manual Integrations  
APPROVED

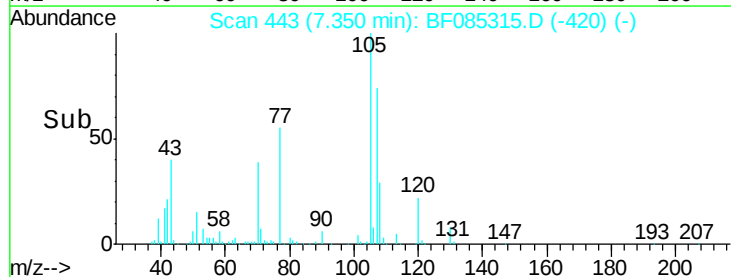
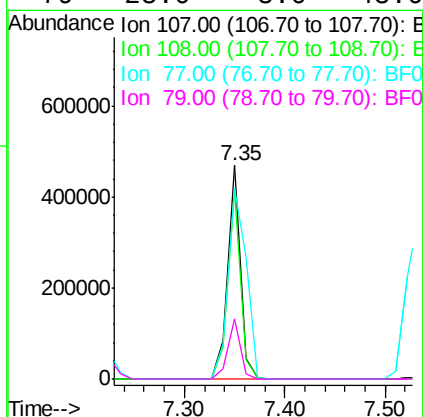
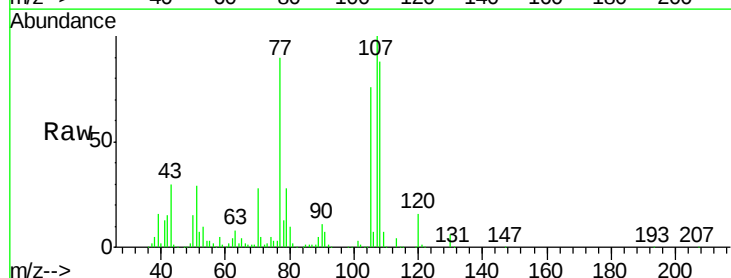
UMANGI  
3/10/2016 3:03:36 PM

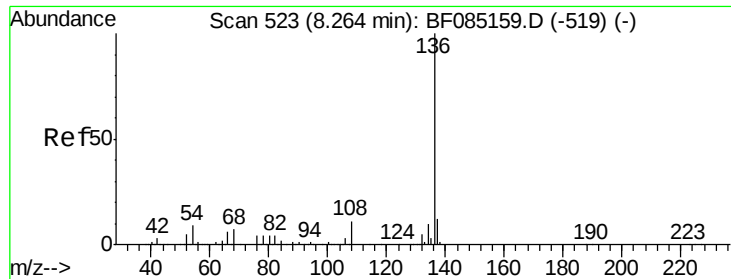
| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 70      | 100  |       |       |       |
| 42      | 48.5 | 37.7  | 56.5  |       |
| 101     | 10.0 | 8.2   | 12.4  |       |
| 130     | 21.7 | 20.5  | 30.7  |       |



#20  
3+4-Methylphenols  
Concen: 34.29 ng  
RT: 7.35 min Scan# 443  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 107     | 100  |       |       |       |
| 108     | 88.1 | 68.8  | 108.8 |       |
| 77      | 89.5 | 53.6  | 93.6  |       |
| 79      | 28.0 | 8.0   | 48.0  |       |





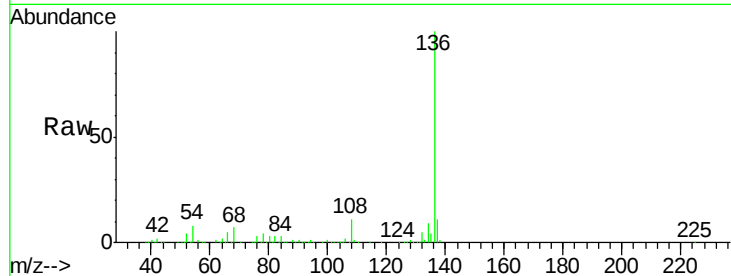
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.23 min Scan# 520  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

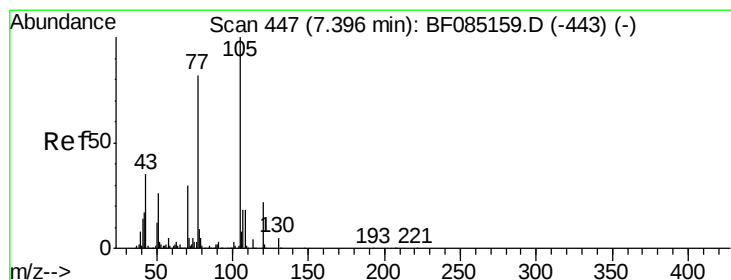
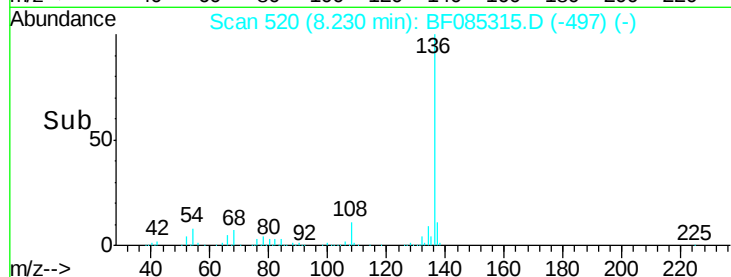
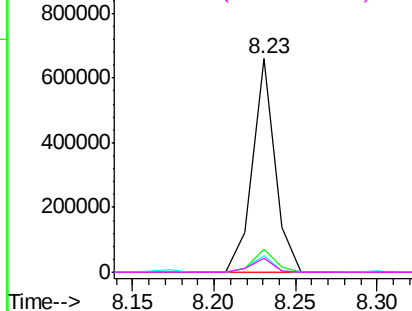
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 136     | 100   |            |            |
| 137     | 11.0  | 9.3        | 13.9       |
| 54      | 7.8   | 7.4        | 11.2       |
| 68      | 6.5   | 6.0        | 9.0        |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



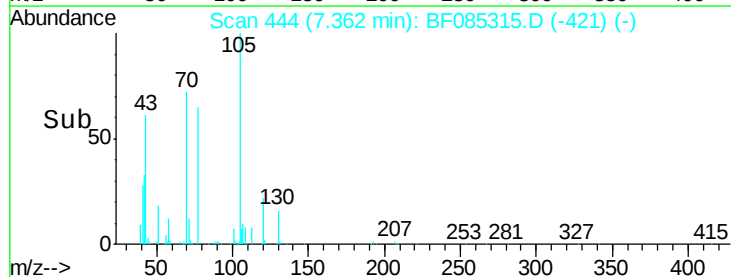
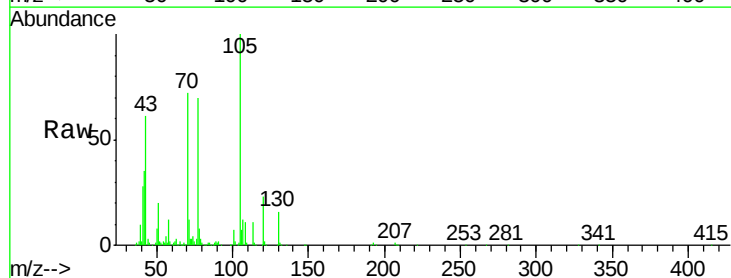
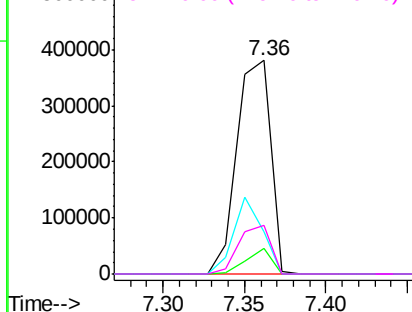
Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0



#22  
Acetophenone  
Concen: 35.23 ng  
RT: 7.36 min Scan# 444  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 105     | 100   |            |            |
| 71      | 12.0  | 4.1        | 6.1#       |
| 51      | 19.5  | 21.1       | 31.7#      |
| 120     | 22.6  | 17.3       | 25.9       |

Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BF0  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 120.00 (119.70 to 120.70): E





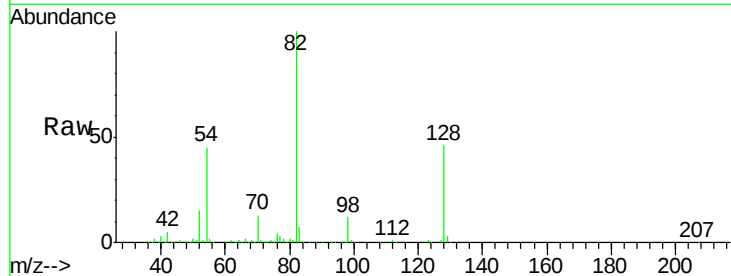
#23  
 Nitrobenzene-d5  
 Concen: 65.31 ng  
 RT: 7.51 min Scan# 457  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

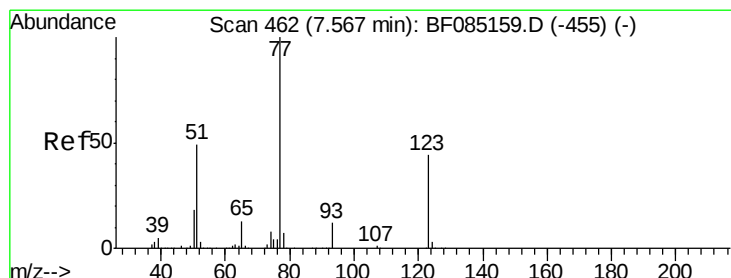
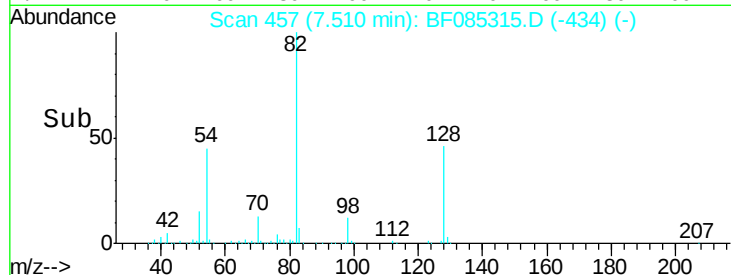
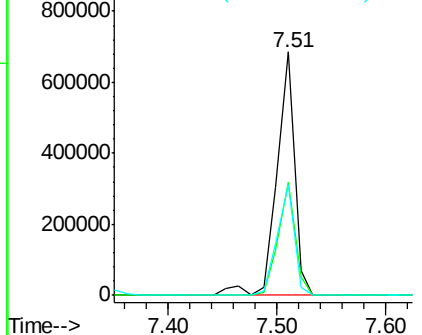
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.2  | 34.5  | 51.7  |
| 54      | 45.4  | 39.3  | 58.9  |

Manual Integrations  
 APPROVED

UMANGI  
 3/10/2016 3:03:36 PM

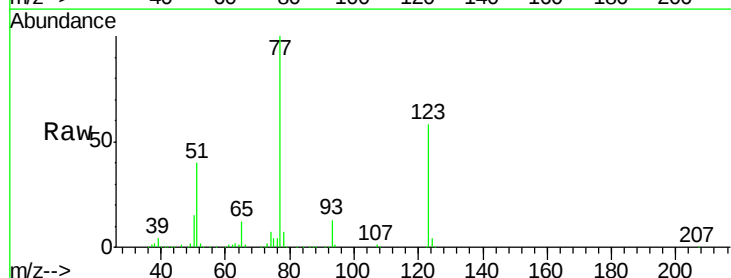


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

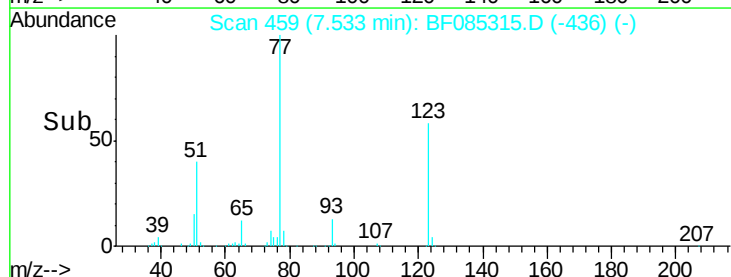
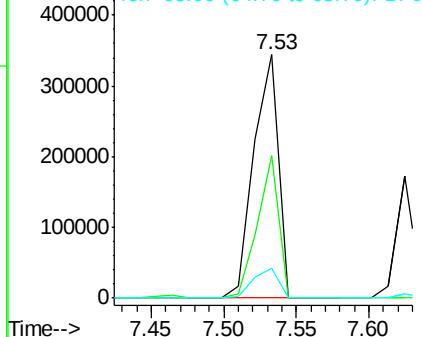


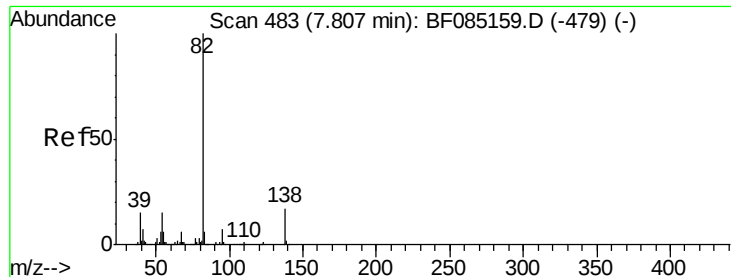
#24  
 Nitrobenzene  
 Concen: 33.70 ng  
 RT: 7.53 min Scan# 459  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 58.3  | 35.4  | 53.2# |
| 65      | 12.3  | 10.6  | 16.0  |



Abundance Ion 77.00 (76.70 to 77.70): BF0  
 Ion 123.00 (122.70 to 123.70): B  
 Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 33.71 ng

RT: 7.77 min Scan# 480

Delta R.T. -0.03 min

Lab File: BF085315.D

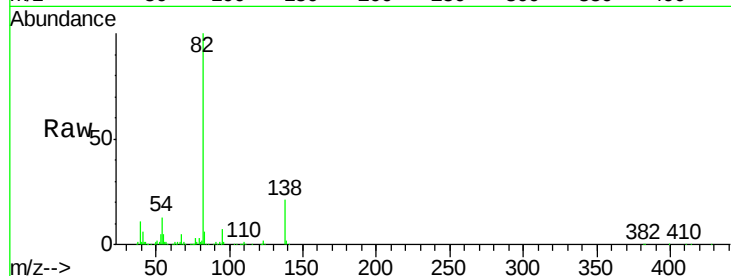
Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

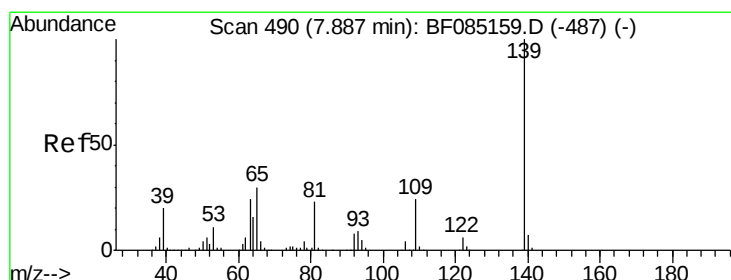
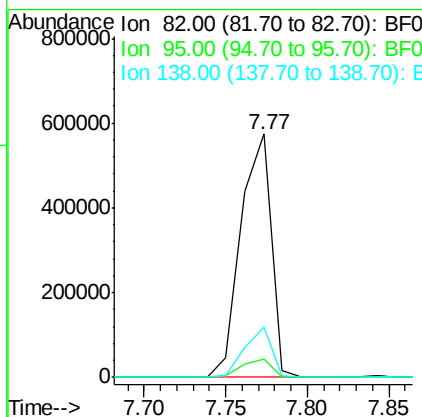
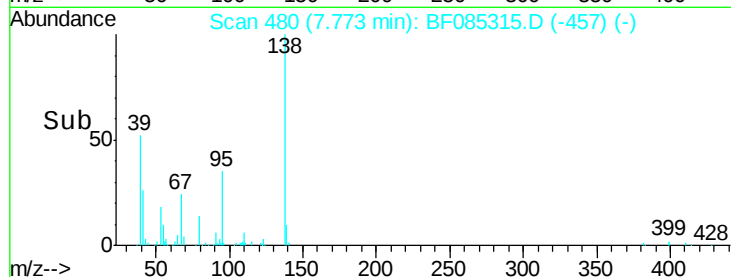
UST-SW-SEMS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 7.3   | 5.4   | 8.2   |
| 138     | 20.6  | 13.3  | 19.9# |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#26

2-Nitrophenol

Concen: 32.53 ng

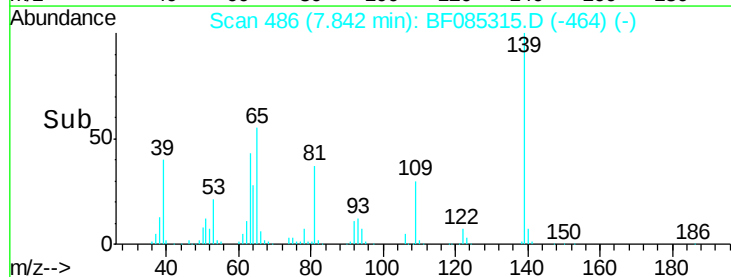
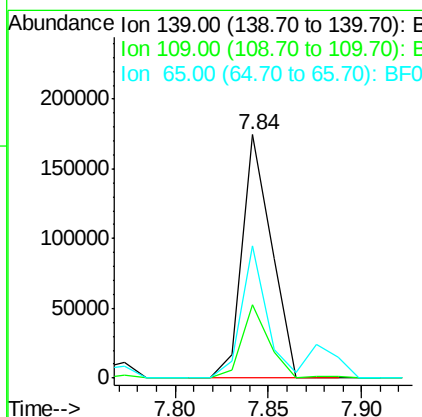
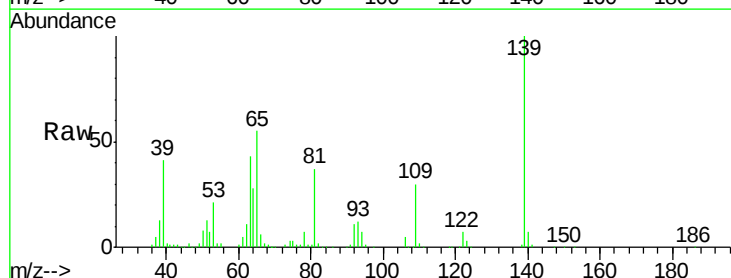
RT: 7.84 min Scan# 486

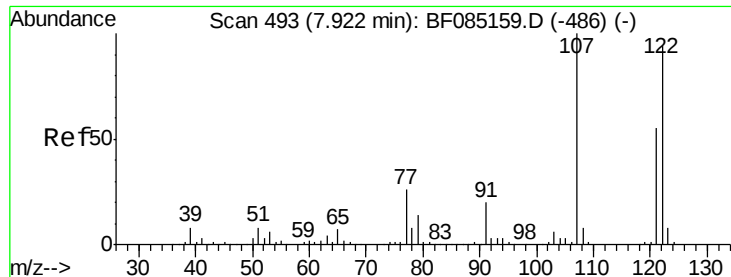
Delta R.T. -0.05 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 29.9  | 19.1  | 28.7# |
| 65      | 54.5  | 23.9  | 35.9# |





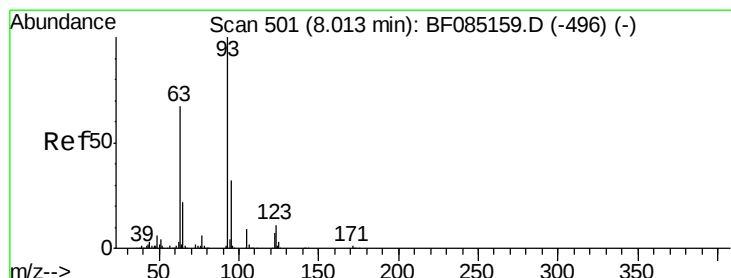
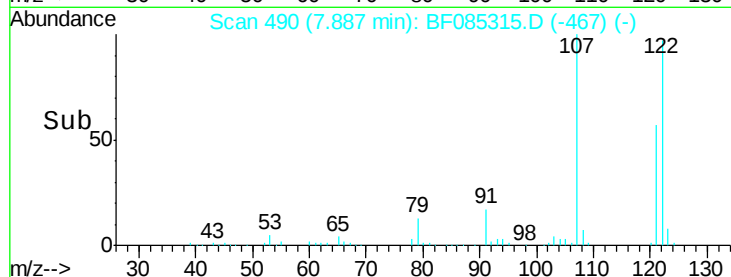
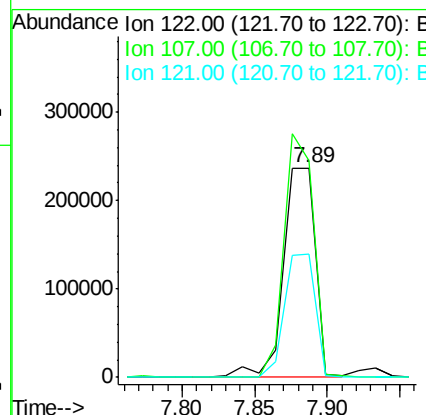
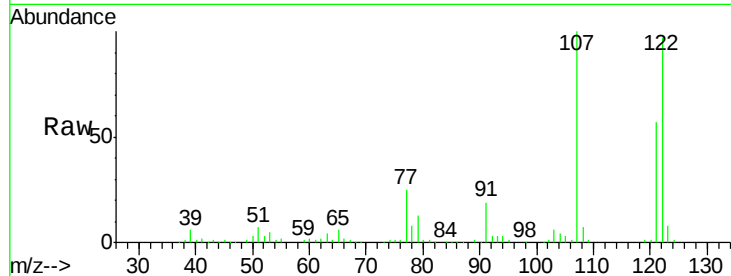
#27  
 2,4-Dimethylphenol  
 Concen: 33.92 ng  
 RT: 7.89 min Scan# 490  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 362311 |       |       |
| 107     | 103.5 | 84.8   | 127.2 |       |
| 121     | 58.7  | 47.0   | 70.6  |       |

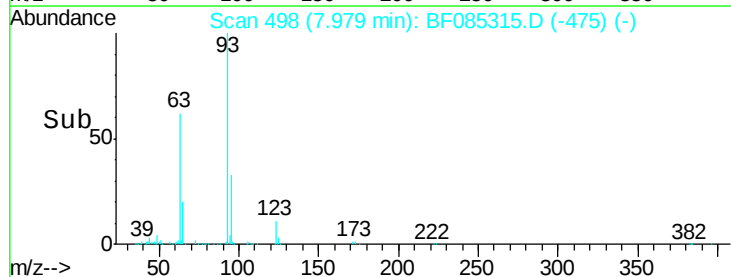
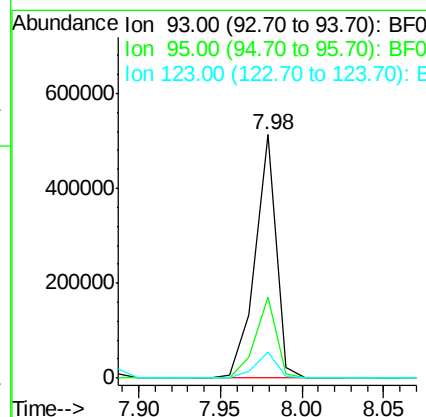
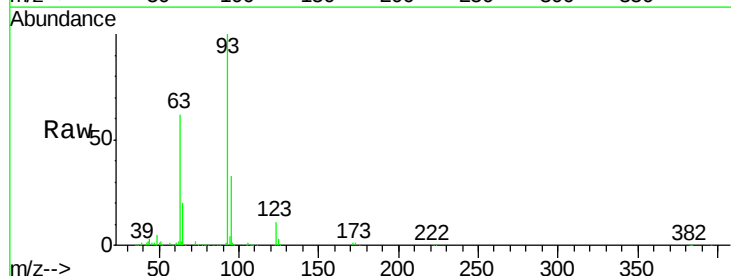
Manual Integrations  
 APPROVED

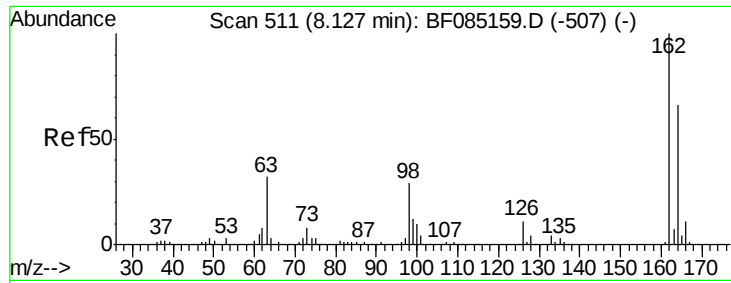
UMANGI  
 3/10/2016 3:03:36 PM



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 37.95 ng  
 RT: 7.98 min Scan# 498  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 463029 |       |       |
| 95      | 33.4  | 25.9   | 38.9  |       |
| 123     | 10.9  | 8.8    | 13.2  |       |





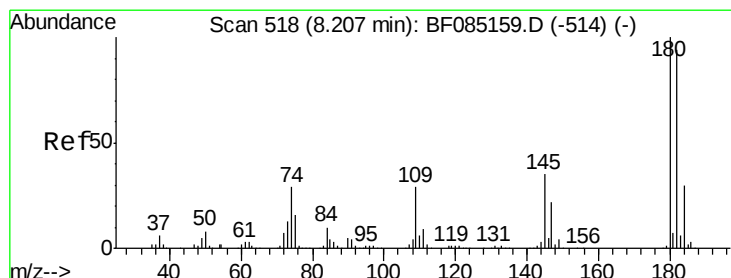
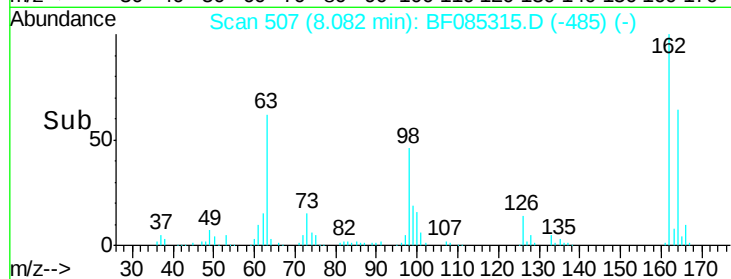
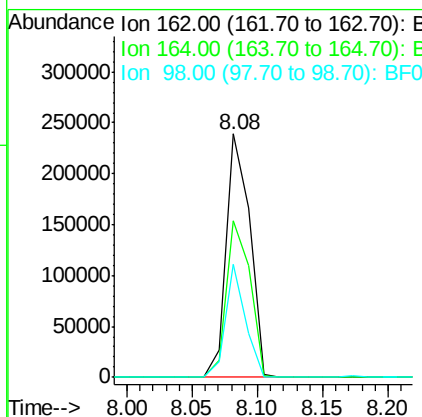
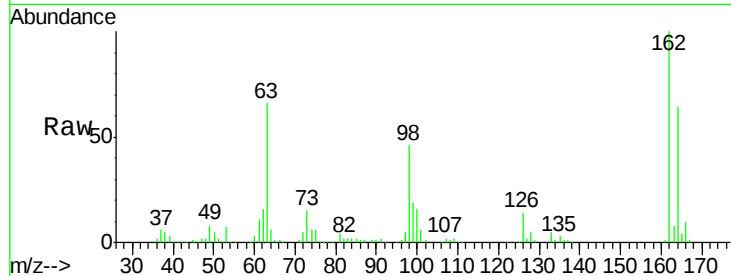
#29  
 2,4-Dichlorophenol  
 Concen: 34.73 ng  
 RT: 8.08 min Scan# 507  
 Delta R.T. -0.05 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 299167 |       |       |
| 164     | 64.4  | 45.7   | 85.7  |       |
| 98      | 46.4  | 9.4    | 49.4  |       |

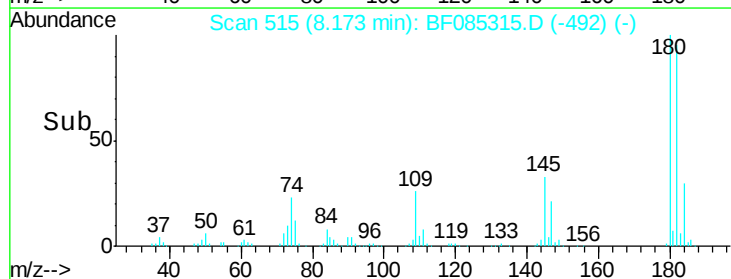
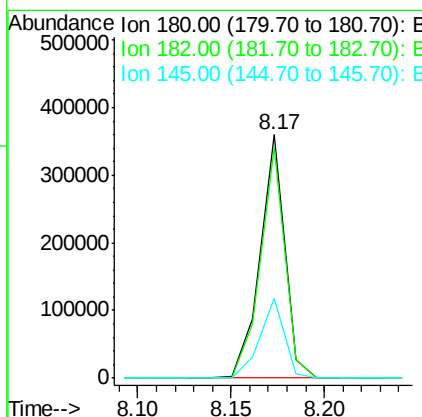
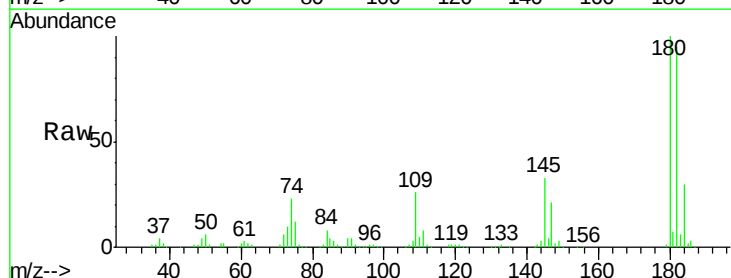
Manual Integrations  
 APPROVED

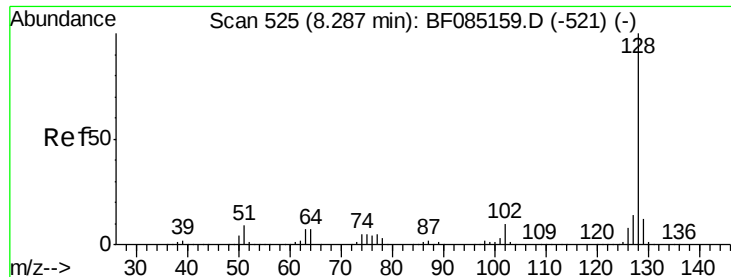
UMANGI  
 3/10/2016 3:03:36 PM



#30  
 1,2,4-Trichlorobenzene  
 Concen: 35.10 ng  
 RT: 8.17 min Scan# 515  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 326833 |       |       |
| 182     | 94.7  | 74.9   | 112.3 |       |
| 145     | 32.6  | 27.9   | 41.9  |       |





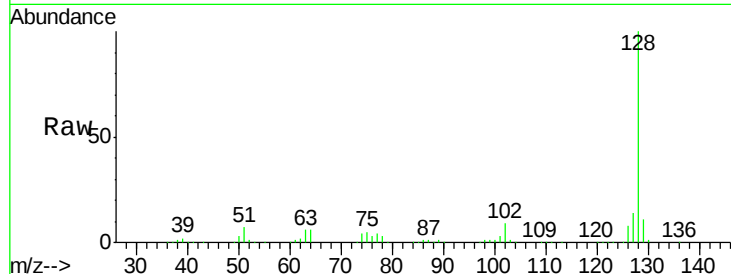
#31  
Naphthalene  
Concen: 34.21 ng  
RT: 8.25 min Scan# 522  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

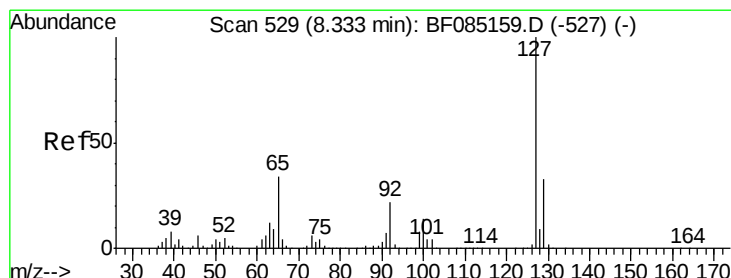
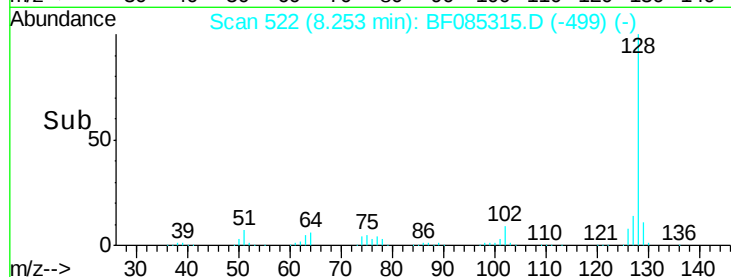
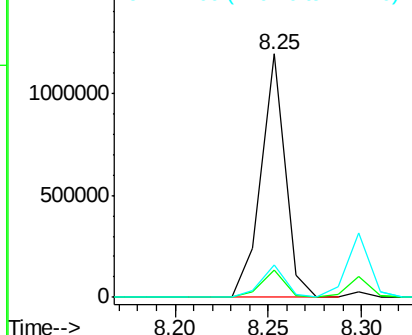
Tgt Ion:128 Resp: 1064050  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.7 14.5  
127 13.6 11.2 16.8

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



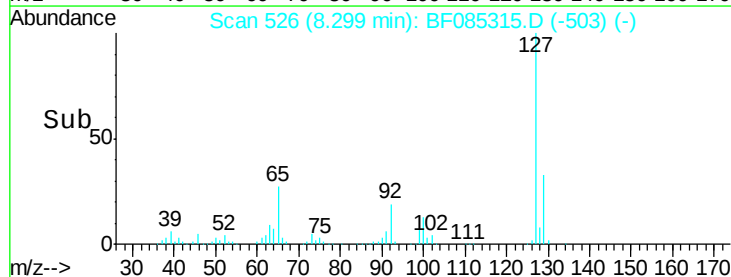
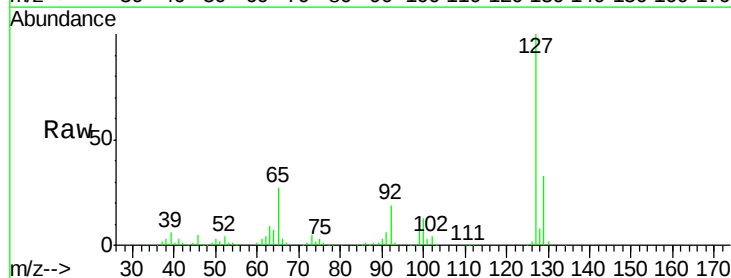
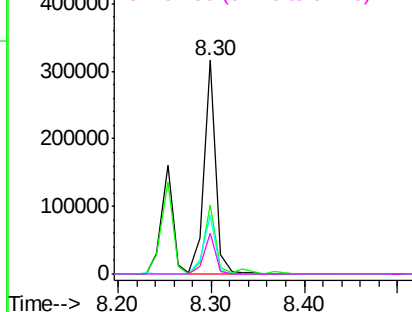
Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

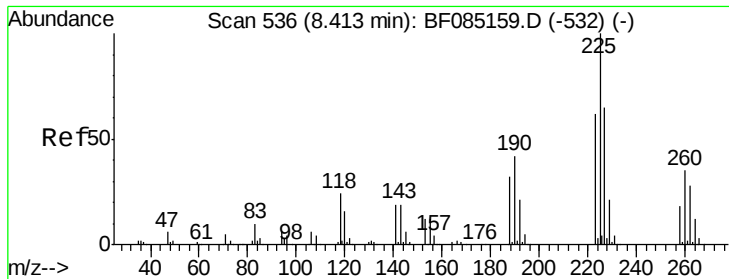


#33  
4-Chloroaniline  
Concen: 22.17 ng  
RT: 8.30 min Scan# 526  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Tgt Ion:127 Resp: 279004  
Ion Ratio Lower Upper  
127 100  
129 32.5 26.1 39.1  
65 27.5 27.0 40.6  
92 19.2 17.4 26.0

Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0





#34

Hexachlorobutadiene

Concen: 32.33 ng

RT: 8.37 min Scan# 532

Delta R.T. -0.05 min

Lab File: BF085315.D

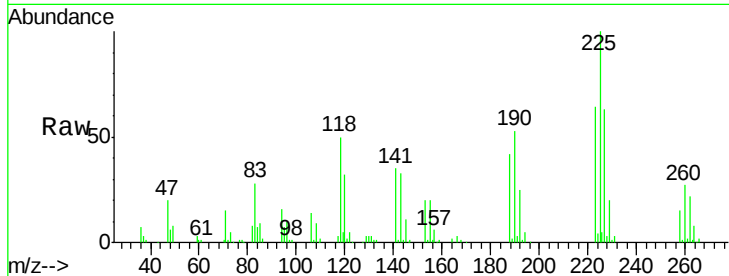
Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

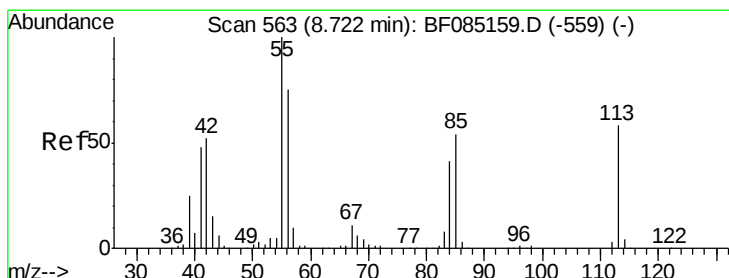
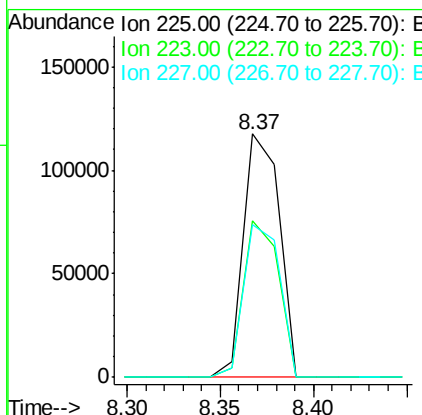
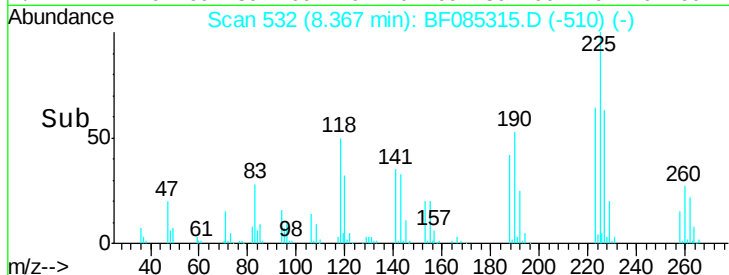
UST-SW-SEMS



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 156658 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 64.4  | 49.7  | 74.5   |
| 227       | 62.7  | 52.2  | 78.4   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#35

Caprolactam

Concen: 38.34 ng m

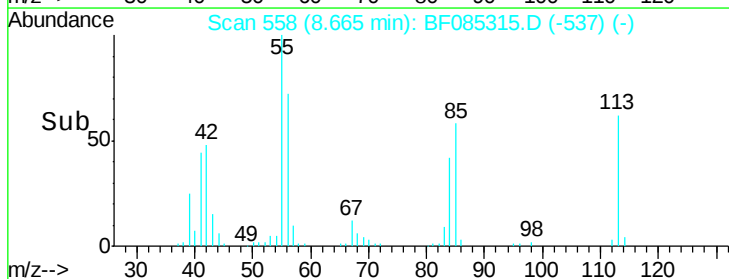
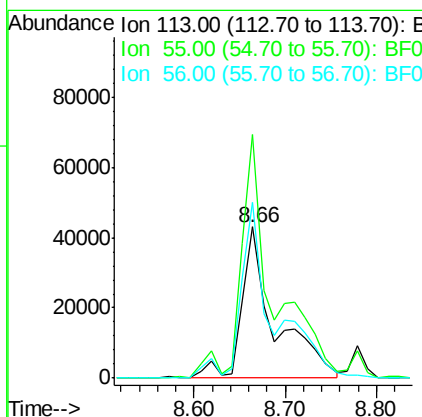
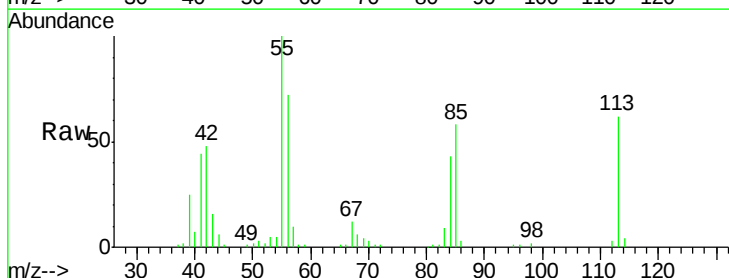
RT: 8.66 min Scan# 558

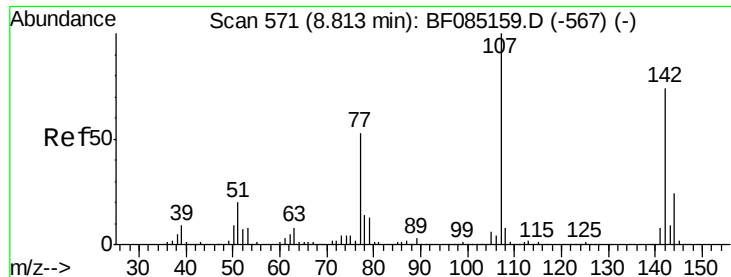
Delta R.T. -0.06 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 107858 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 55        | 160.9 | 152.7 | 192.7  |
| 56        | 116.5 | 109.0 | 149.0  |





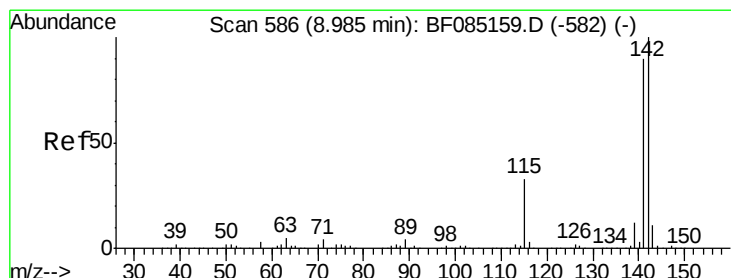
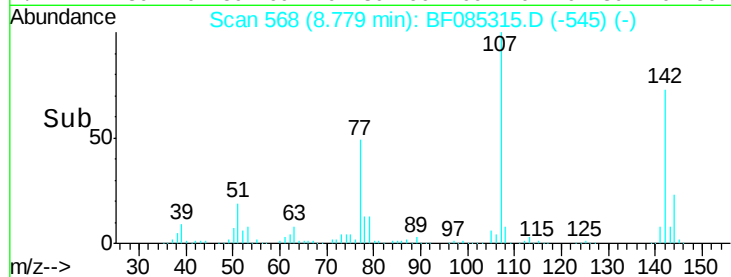
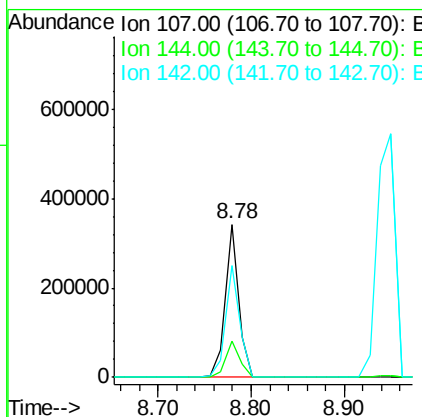
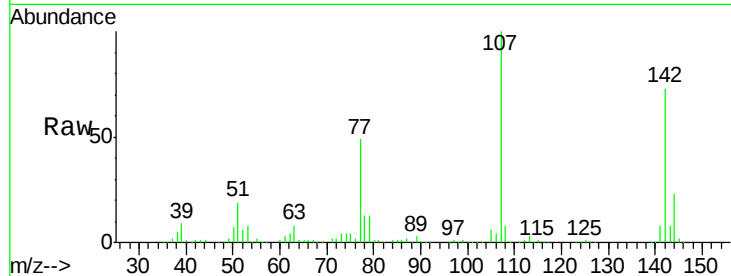
#36  
 4-Chloro-3-methylphenol  
 Concen: 35.08 ng  
 RT: 8.78 min Scan# 568  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 342841 |       |       |
| 144     | 23.4  | 19.4   | 29.2  |       |
| 142     | 72.9  | 59.4   | 89.2  |       |

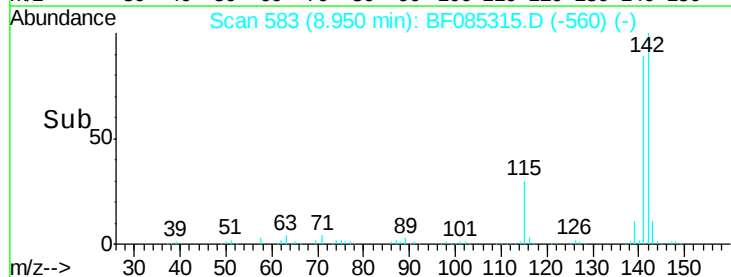
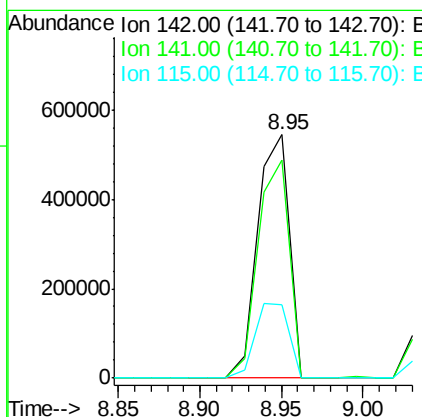
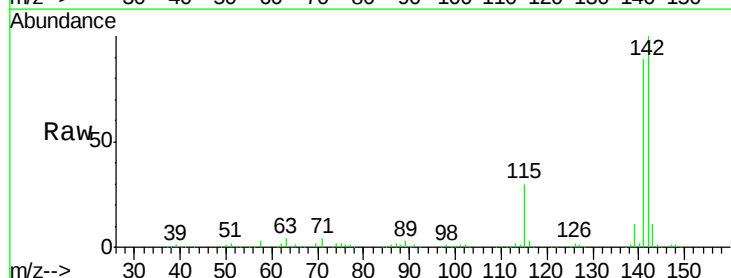
Manual Integrations  
 APPROVED

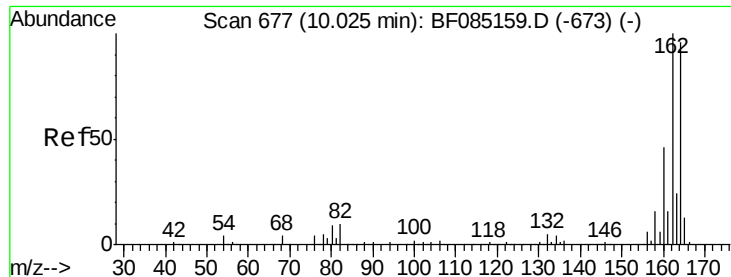
UMANGI  
 3/10/2016 3:03:36 PM



#37  
 2-Methylnaphthalene  
 Concen: 36.79 ng  
 RT: 8.95 min Scan# 583  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 734414 |       |       |
| 141     | 89.5  | 71.7   | 107.5 |       |
| 115     | 30.2  | 26.2   | 39.4  |       |





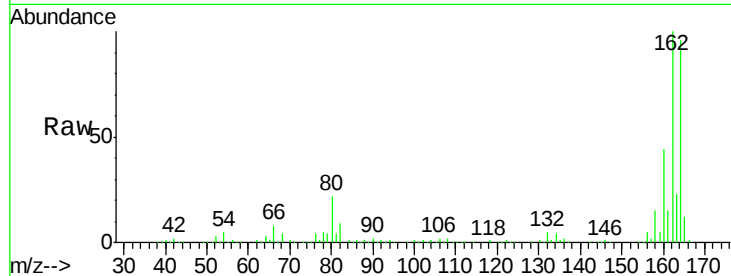
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.99 min Scan# 674  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 311476 |       |       |
| 162     | 103.8 | 83.3   | 124.9 |       |
| 160     | 46.1  | 37.9   | 56.9  |       |

Manual Integrations  
 APPROVED

UMANGI  
 3/10/2016 3:03:36 PM

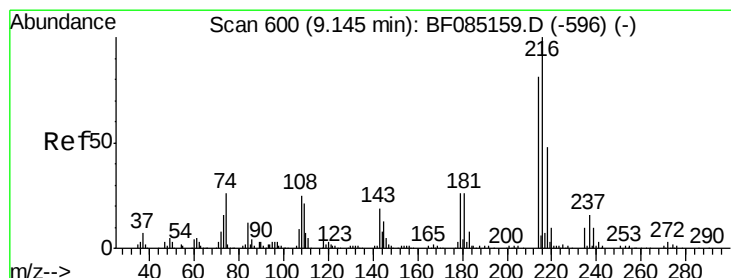
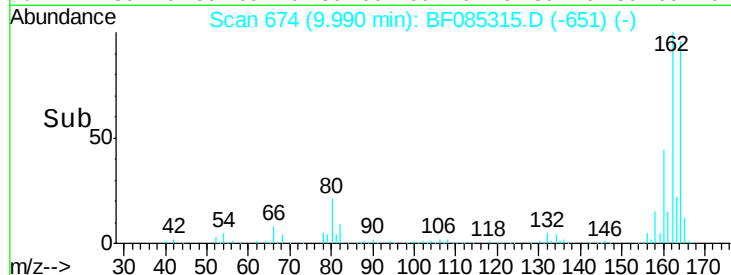
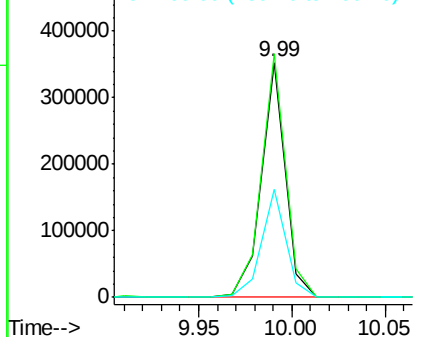


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 31.43 ng  
 RT: 9.11 min Scan# 597  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 216     | 100   | 279931 |       |       |
| 214     | 78.9  | 63.8   | 95.6  |       |
| 179     | 23.5  | 19.6   | 29.4  |       |
| 108     | 23.9  | 19.6   | 29.4  |       |

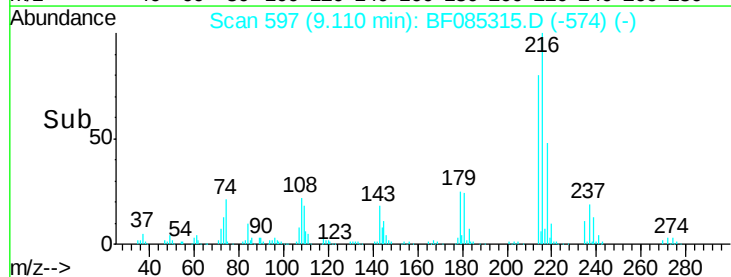
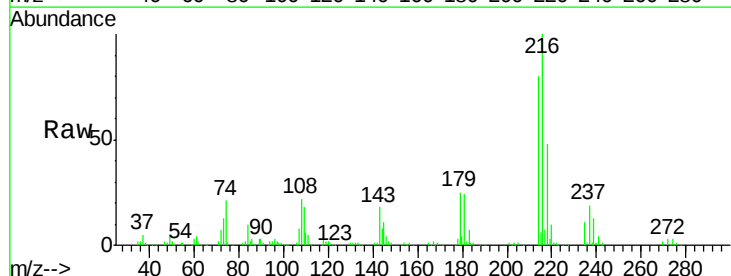
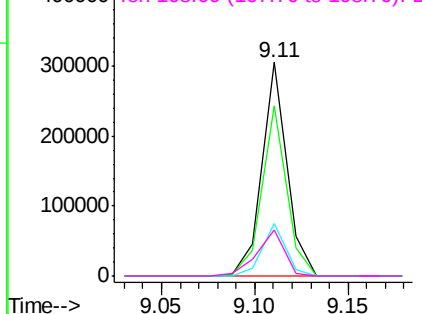
Abundance

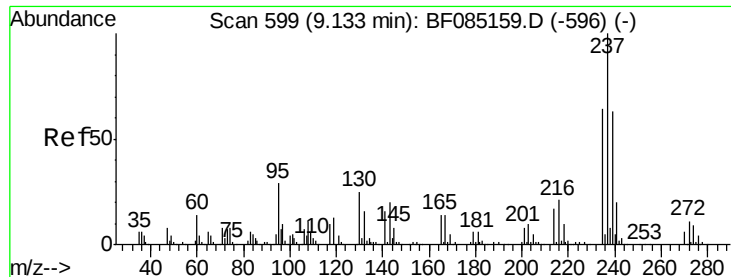
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#40

Hexachlorocyclopentadiene

Concen: 58.77 ng

RT: 9.10 min Scan# 596

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

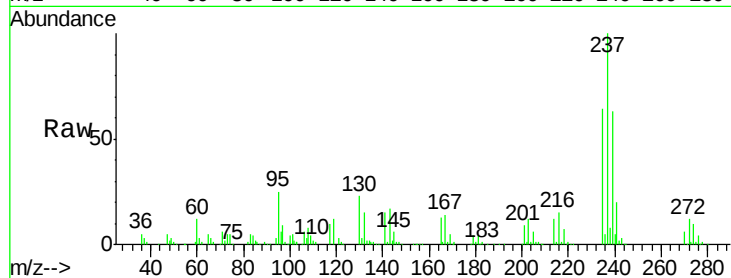
ClientSampleId :

UST-SW-SEMS

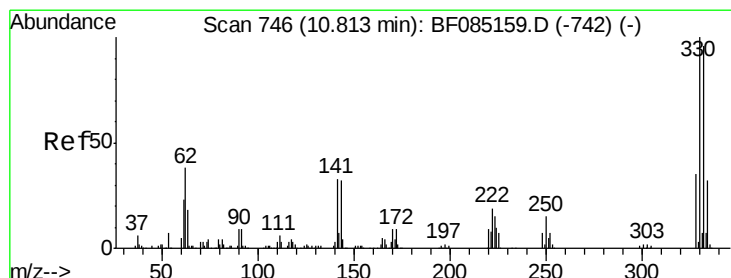
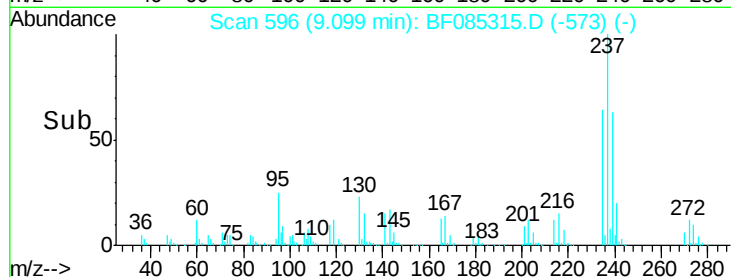
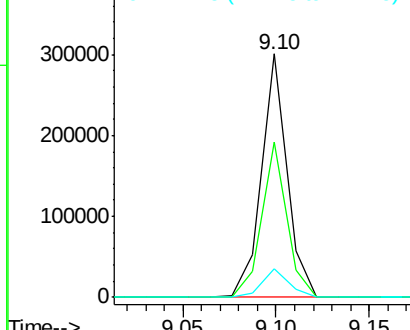
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 237   | Resp: | 282346 |
| Ion Ratio | Lower | Upper |        |
| 237       | 100   |       |        |
| 235       | 63.8  | 43.7  | 83.7   |
| 272       | 11.9  | 0.0   | 31.5   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E



#41

2,4,6-Tribromophenol

Concen: 103.69 ng

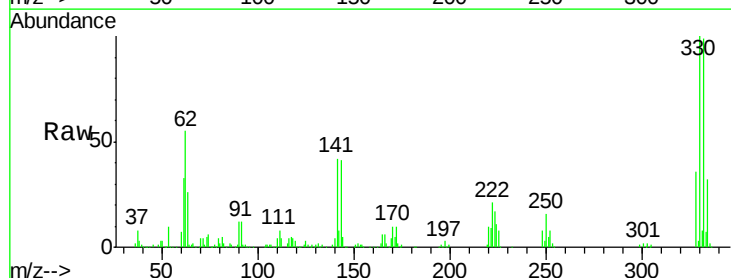
RT: 10.78 min Scan# 743

Delta R.T. -0.03 min

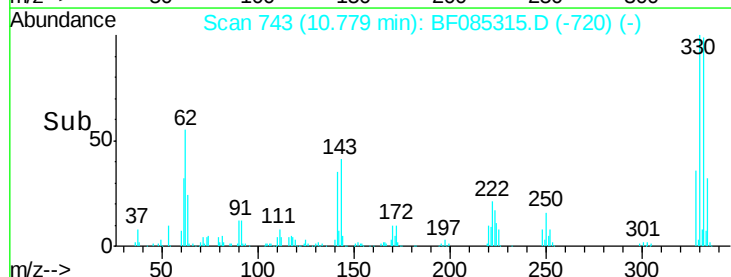
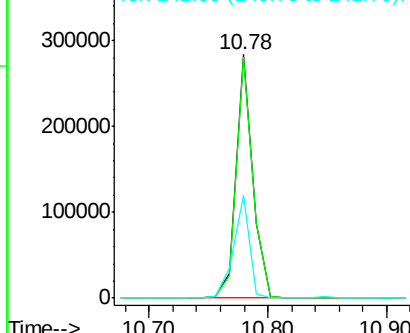
Lab File: BF085315.D

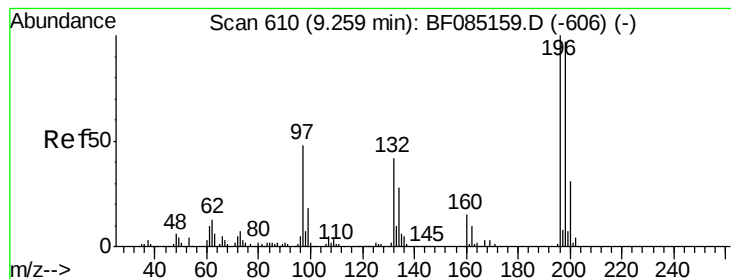
Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 276346 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 98.8  | 77.1  | 115.7  |
| 141       | 40.2  | 35.0  | 52.6   |



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





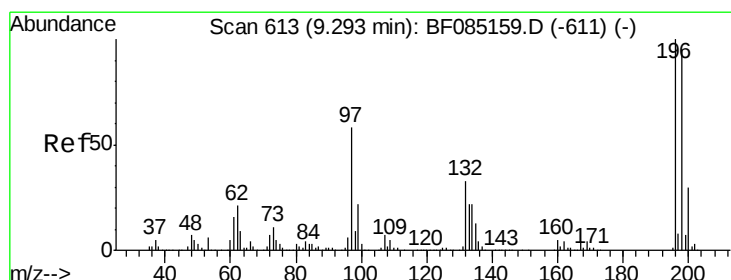
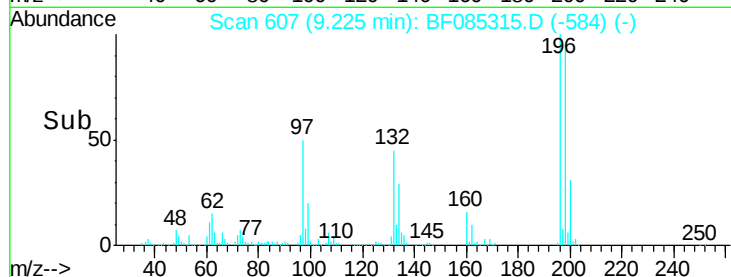
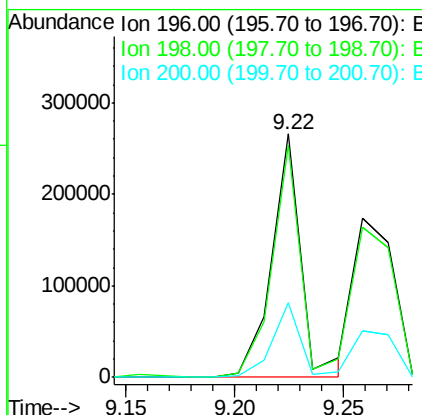
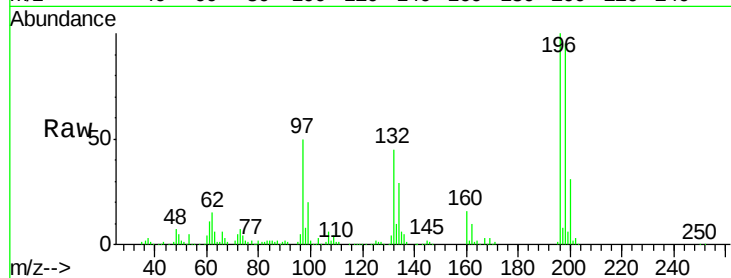
#42  
 2,4,6-Trichlorophenol  
 Concen: 37.98 ng  
 RT: 9.22 min Scan# 607  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 251869 |       |       |
| 198     | 95.2  | 77.8   | 116.6 |       |
| 200     | 30.8  | 25.0   | 37.6  |       |

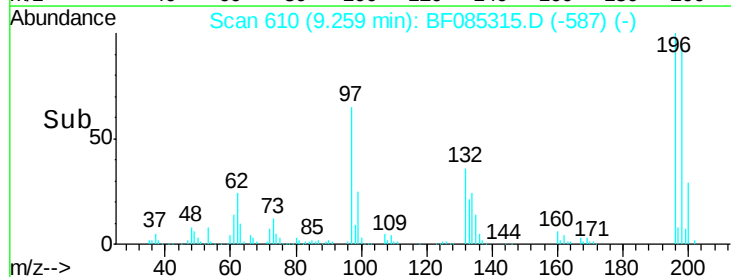
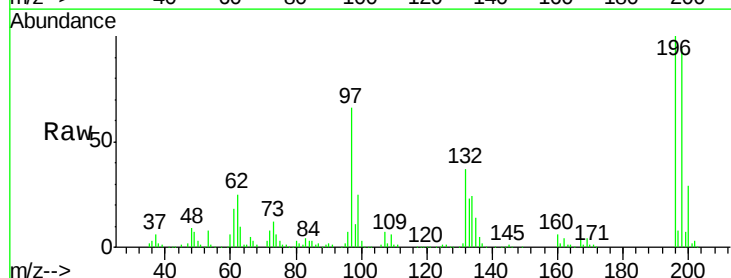
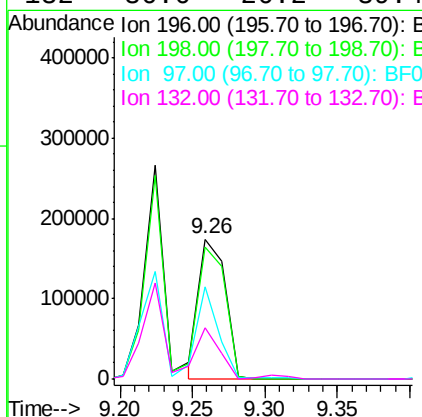
Manual Integrations  
 APPROVED

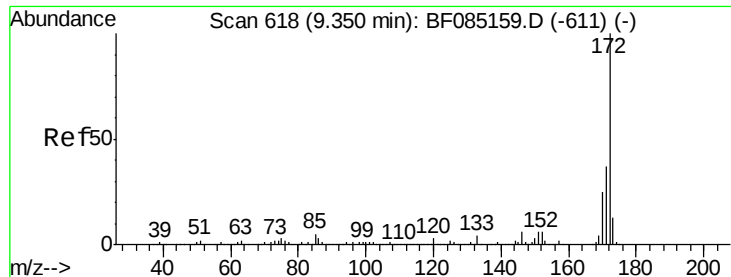
UMANGI  
 3/10/2016 3:03:36 PM



#43  
 2,4,5-Trichlorophenol  
 Concen: 35.56 ng  
 RT: 9.26 min Scan# 610  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 223547 |       |       |
| 198     | 94.3  | 75.7   | 113.5 |       |
| 97      | 66.0  | 46.4   | 69.6  |       |
| 132     | 36.6  | 26.2   | 39.4  |       |





#44

2-Fluorobiphenyl

Concen: 59.54 ng

RT: 9.30 min Scan# 614

Delta R.T. -0.05 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

UST-SW-SEMS

Tgt Ion:172 Resp: 1219400

Ion Ratio Lower Upper

172 100

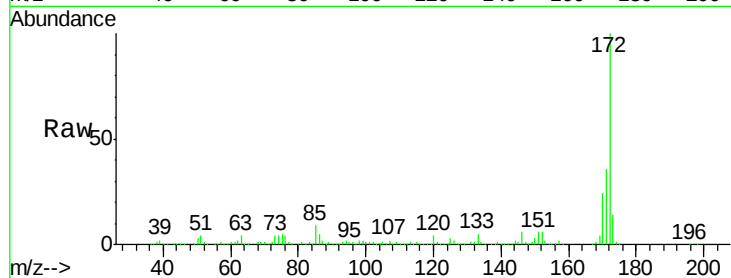
171 35.7 29.3 43.9

170 23.8 20.0 30.0

Manual Integrations  
APPROVED

UMANGI

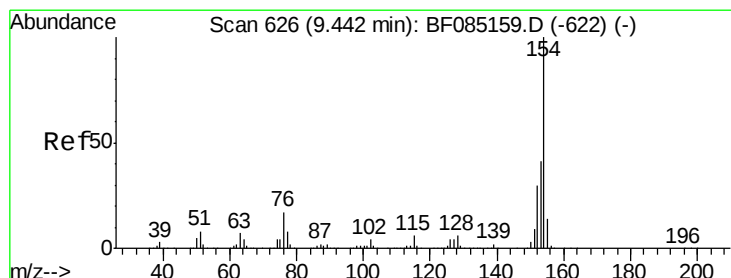
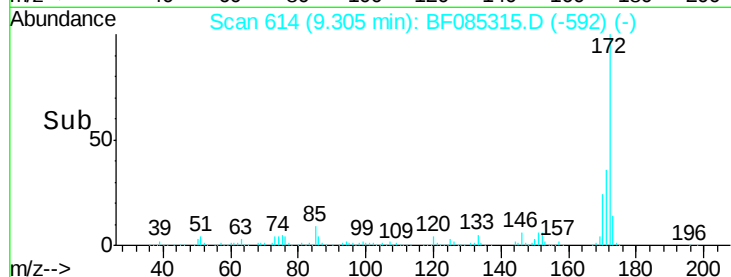
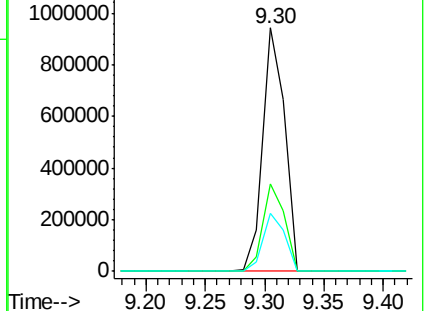
3/10/2016 3:03:36 PM



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#45

1,1'-Biphenyl

Concen: 29.91 ng

RT: 9.41 min Scan# 623

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

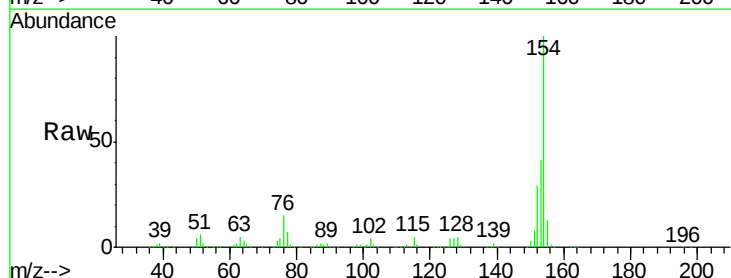
Tgt Ion:154 Resp: 795993

Ion Ratio Lower Upper

154 100

153 41.0 21.4 61.4

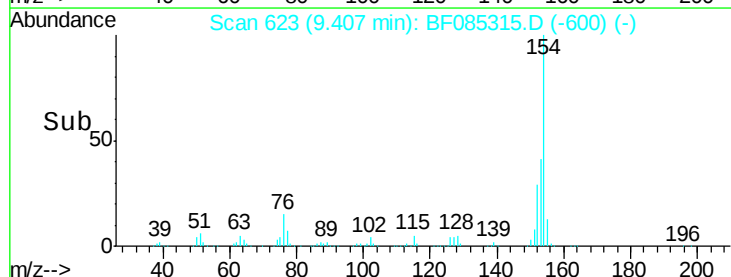
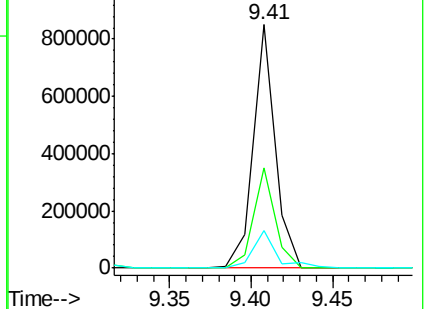
76 15.2 0.0 37.5

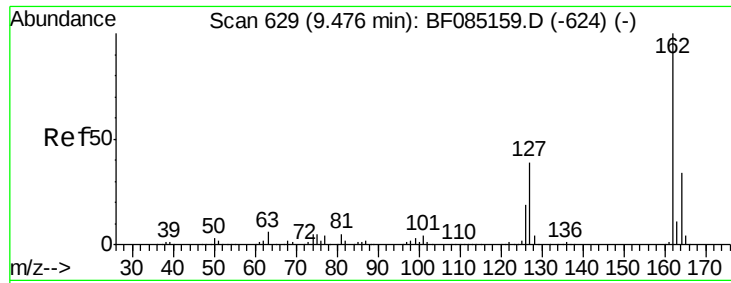


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





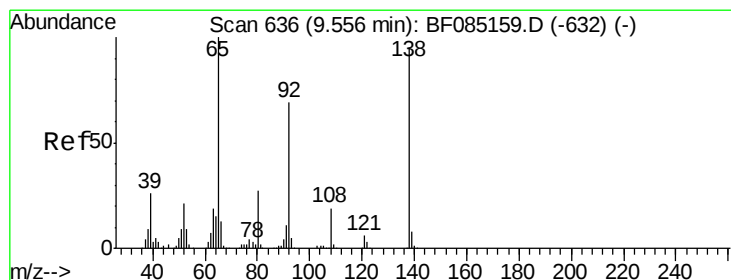
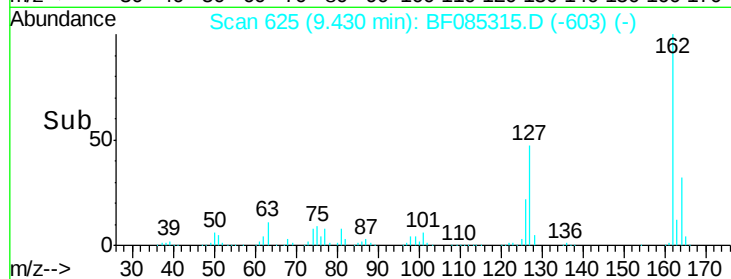
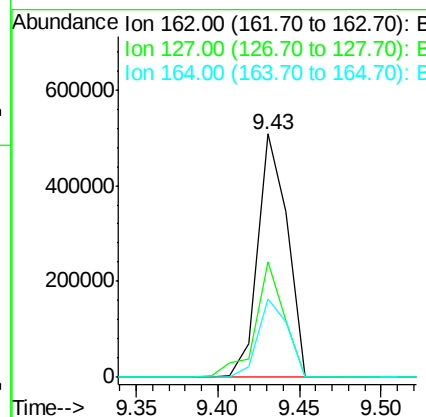
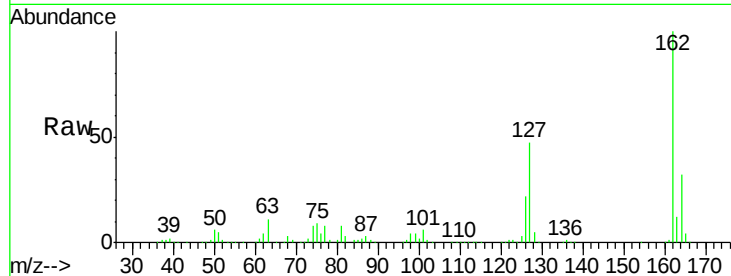
#46  
 2-Chloronaphthalene  
 Concen: 31.31 ng  
 RT: 9.43 min Scan# 625  
 Delta R.T. -0.05 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 162     | 100   |            |       |
| 127     | 47.4  | 31.6       | 47.4  |
| 164     | 32.1  | 27.1       | 40.7  |

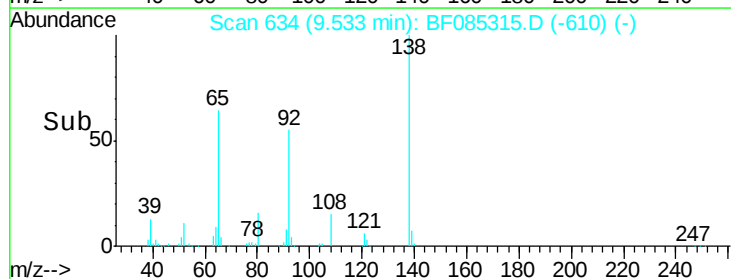
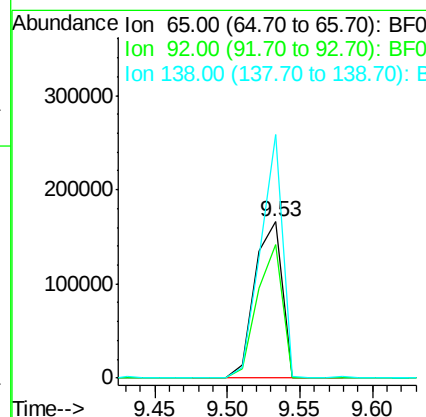
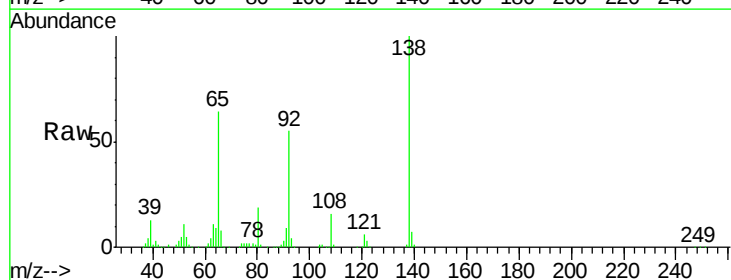
Manual Integrations  
 APPROVED

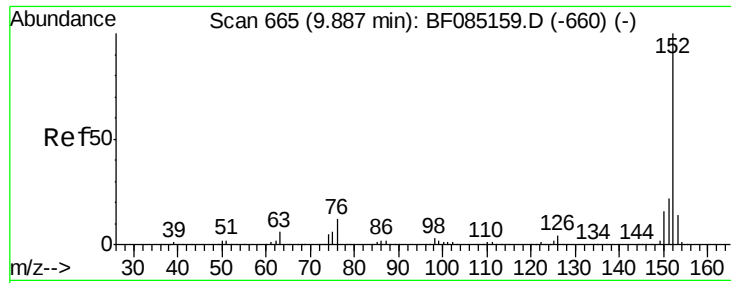
UMANGI  
 3/10/2016 3:03:36 PM



#47  
 2-Nitroaniline  
 Concen: 34.69 ng  
 RT: 9.53 min Scan# 634  
 Delta R.T. -0.02 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp Lower | Upper  |
|---------|-------|------------|--------|
| 65      | 100   |            |        |
| 92      | 85.5  | 55.4       | 83.2#  |
| 138     | 155.6 | 75.7       | 113.5# |





#48

Acenaphthylene

Concen: 34.76 ng

RT: 9.85 min Scan# 662

Delta R.T. -0.03 min

Lab File: BF085315.D

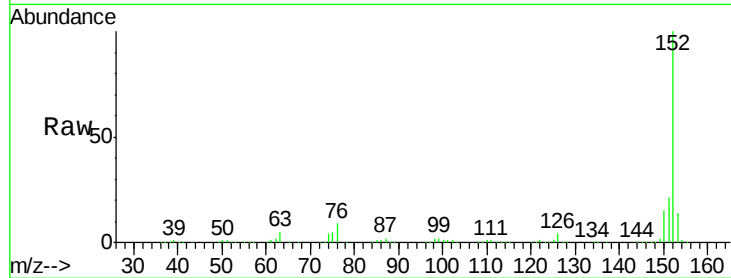
Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

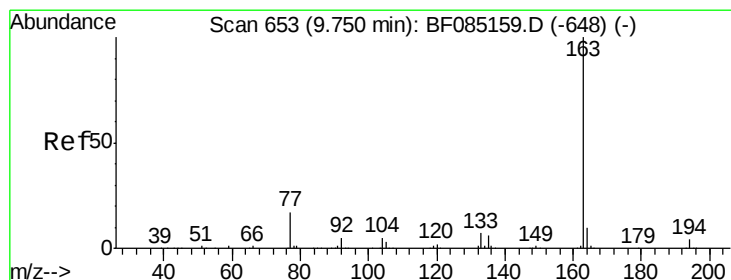
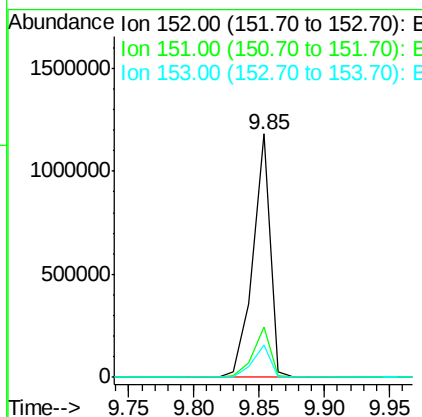
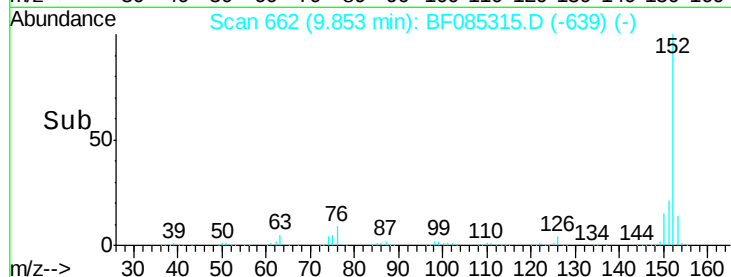
UST-SW-SEMS



|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 152   | Resp: | 1097233 |
| Ion Ratio | Lower | Upper |         |
| 152       | 100   |       |         |
| 151       | 20.6  | 17.5  | 26.3    |
| 153       | 13.5  | 11.3  | 16.9    |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#49

Dimethylphthalate

Concen: 48.34 ng

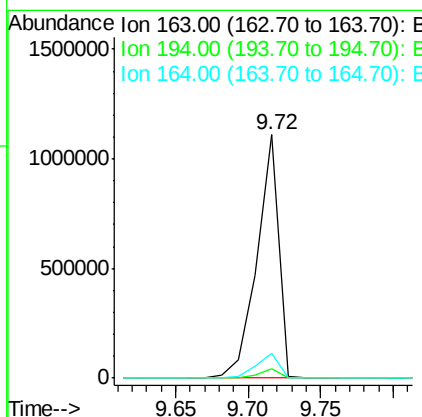
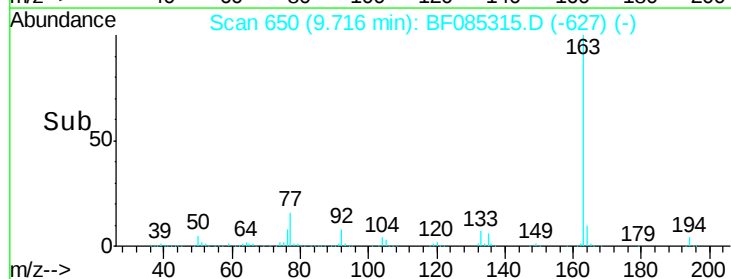
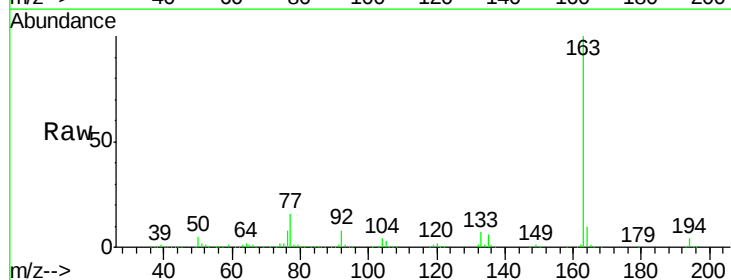
RT: 9.72 min Scan# 650

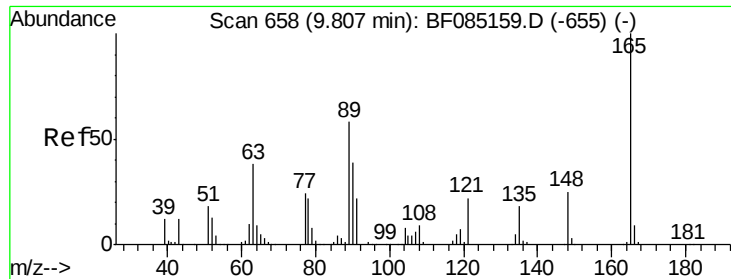
Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 163   | Resp: | 1155784 |
| Ion Ratio | Lower | Upper |         |
| 163       | 100   |       |         |
| 194       | 4.0   | 3.1   | 4.7     |
| 164       | 10.1  | 8.2   | 12.4    |





#50

2,6-Dinitrotoluene

Concen: 37.65 ng

RT: 9.77 min Scan# 655

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

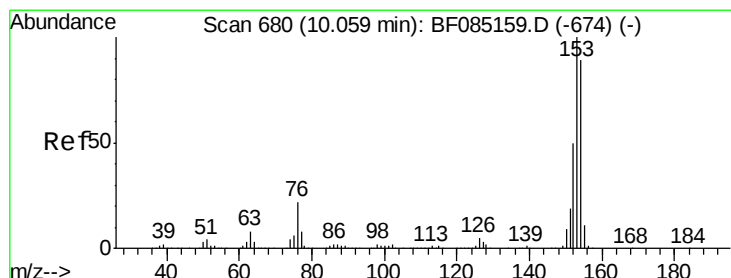
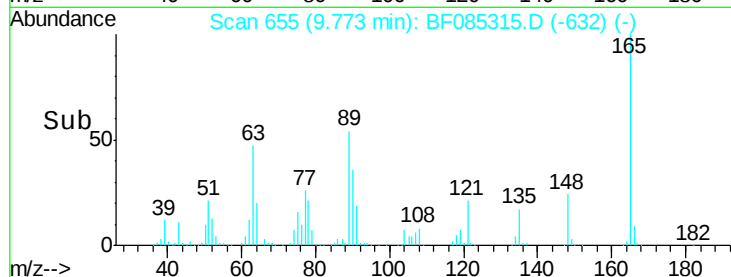
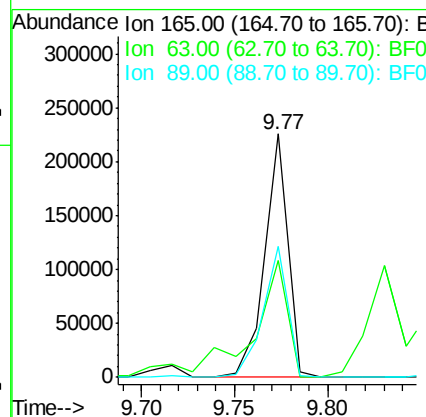
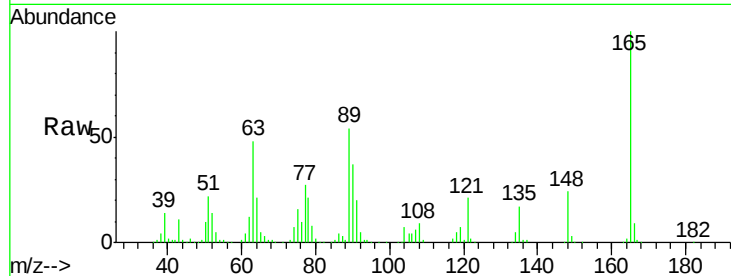
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 192552 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 47.8  | 41.8  | 62.8   |
| 89        | 54.0  | 46.7  | 70.1   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#51

Acenaphthene

Concen: 34.50 ng

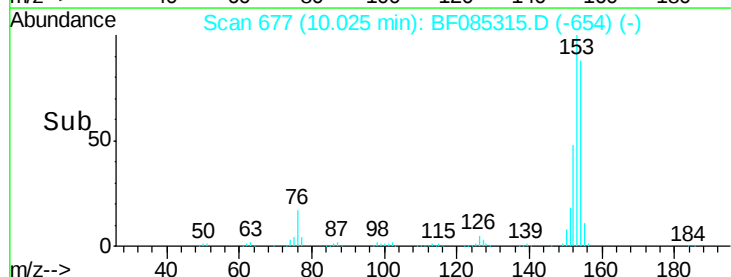
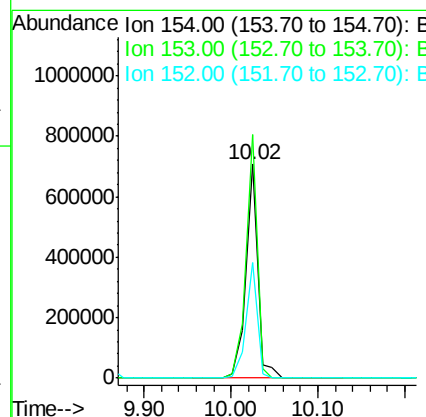
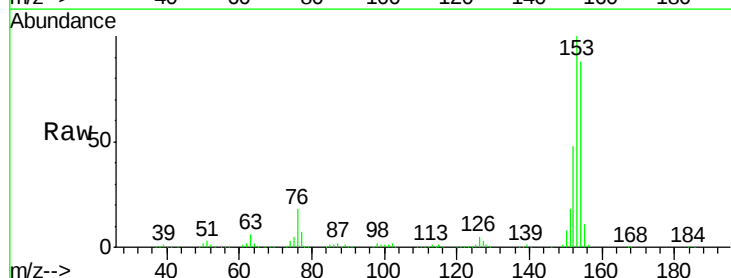
RT: 10.02 min Scan# 677

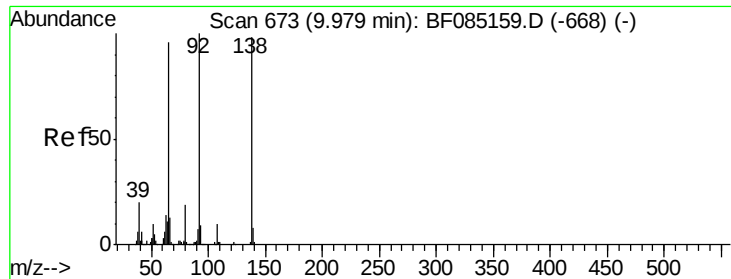
Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 661310 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 113.8 | 89.8  | 134.8  |
| 152       | 54.2  | 44.6  | 66.8   |





#52

3-Nitroaniline

Concen: 29.58 ng

RT: 9.94 min Scan# 670

Delta R.T. -0.03 min

Lab File: BF085315.D

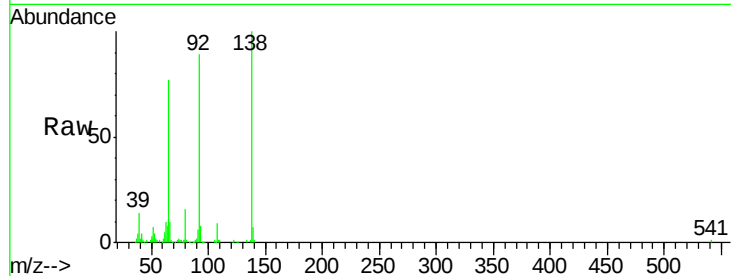
Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

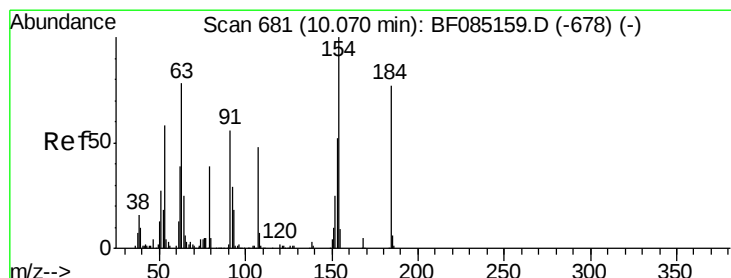
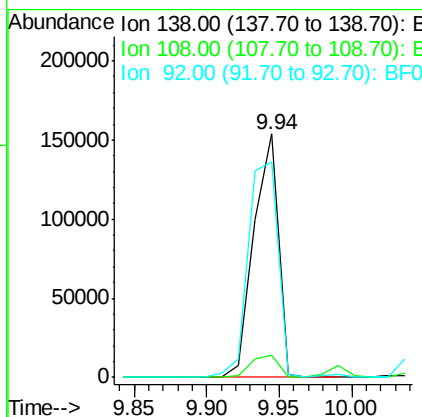
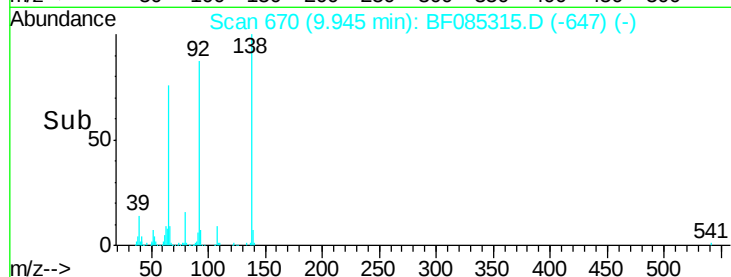
UST-SW-SEMS



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 180990 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 8.9   | 7.8   | 11.6   |
| 92        | 88.6  | 81.3  | 121.9  |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#53

2,4-Dinitrophenol

Concen: 29.78 ng

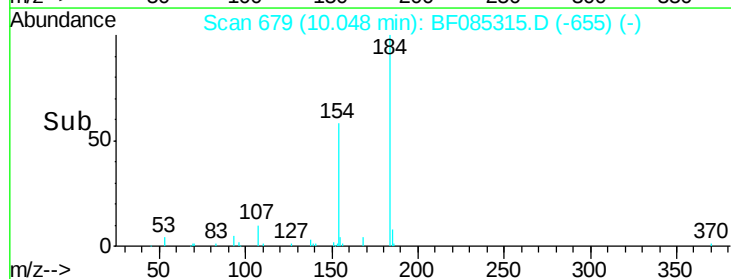
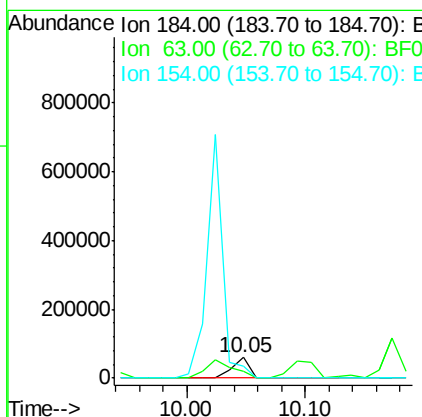
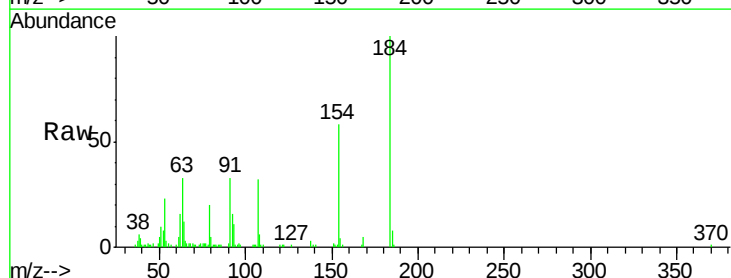
RT: 10.05 min Scan# 679

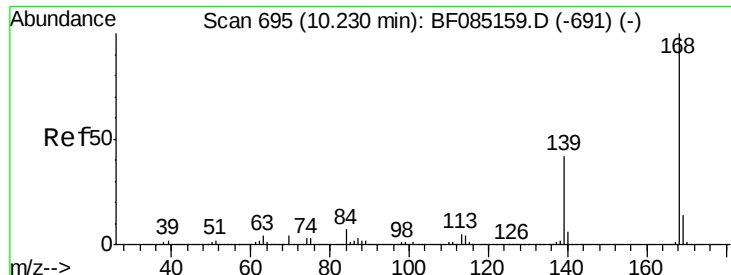
Delta R.T. -0.02 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 184   | Resp: | 62765  |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 63        | 33.3  | 82.2  | 123.4# |
| 154       | 58.1  | 108.9 | 163.3# |





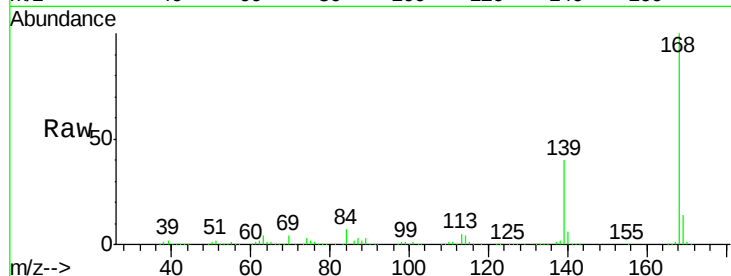
#54  
Dibenzenofuran  
Concen: 36.50 ng  
RT: 10.20 min Scan# 692  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

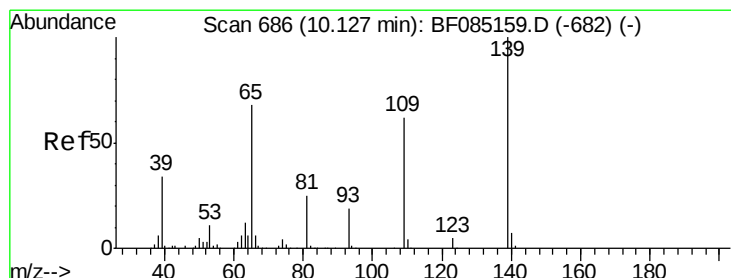
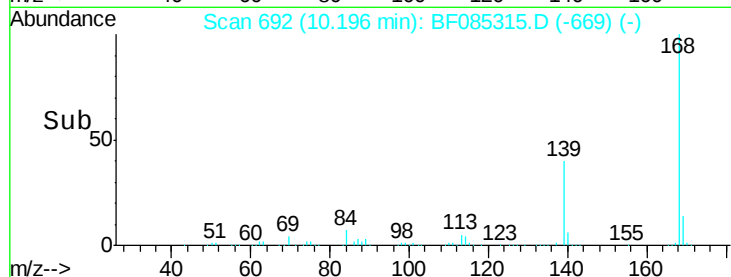
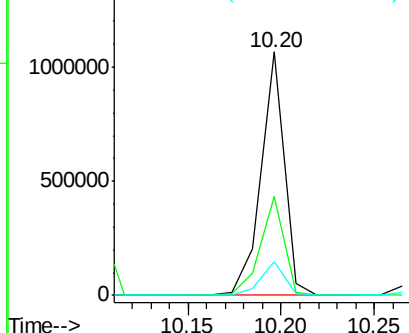
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.5  | 33.6  | 50.4  |
| 169     | 13.8  | 11.2  | 16.8  |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



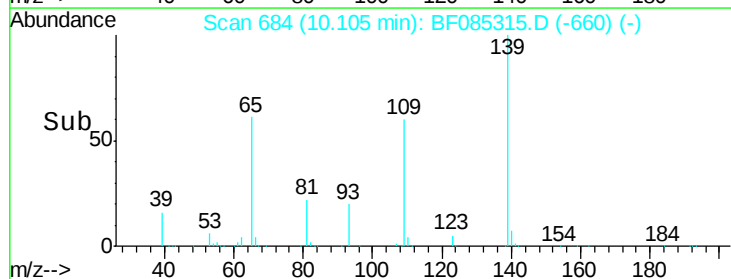
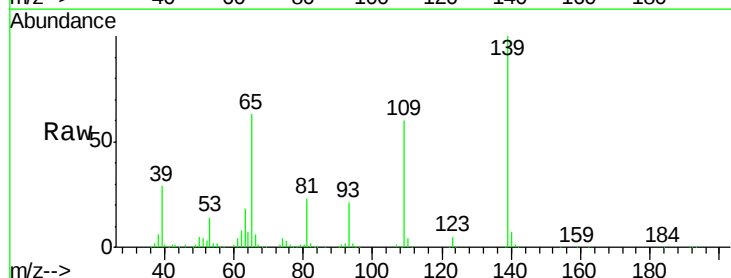
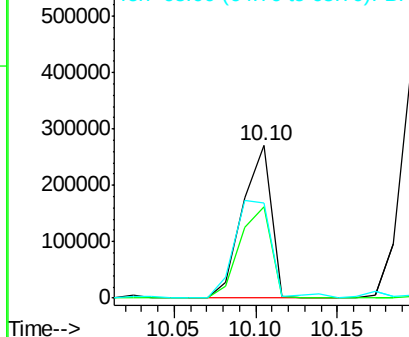
Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

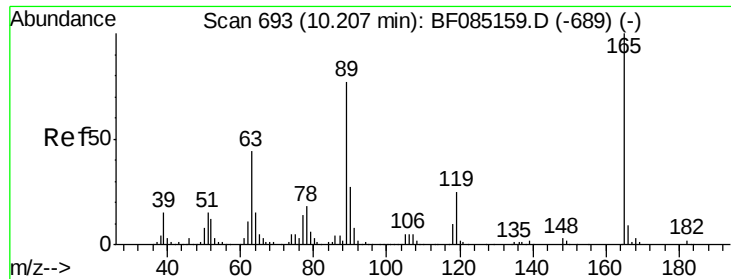


#55  
4-Nitrophenol  
Concen: 69.00 ng  
RT: 10.10 min Scan# 684  
Delta R.T. -0.02 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 59.9  | 41.9  | 81.9  |
| 65      | 62.7  | 48.3  | 88.3  |

Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0





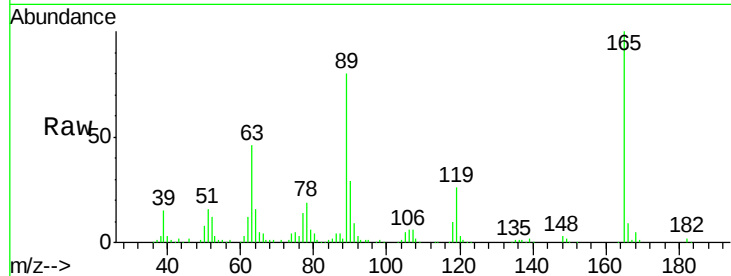
#56  
2,4-Dinitrotoluene  
Concen: 33.85 ng  
RT: 10.17 min Scan# 690  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 221555 |       |       |
| 63      | 46.1  | 35.4   | 53.0  |       |
| 89      | 80.1  | 61.9   | 92.9  |       |
| 182     | 2.4   | 1.9    | 2.9   |       |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM

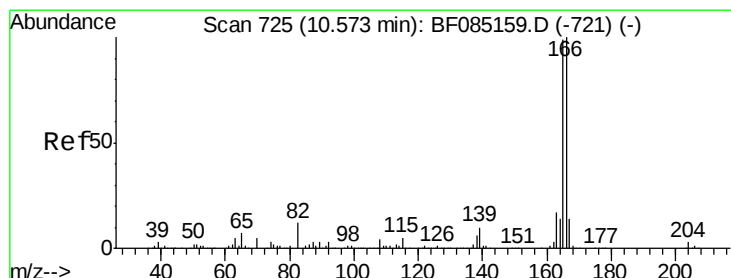
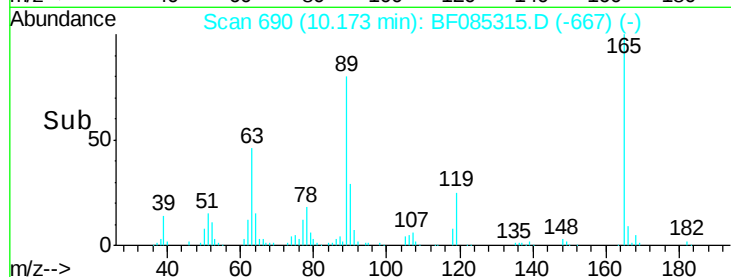
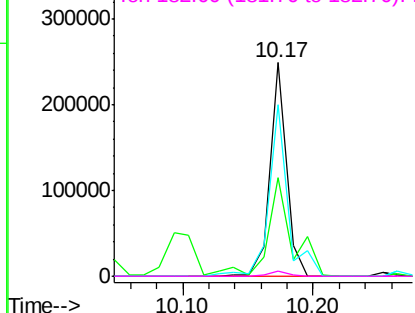


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

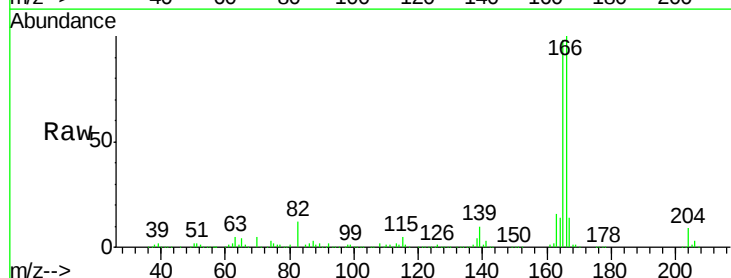
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57  
Fluorene  
Concen: 36.18 ng  
RT: 10.54 min Scan# 722  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

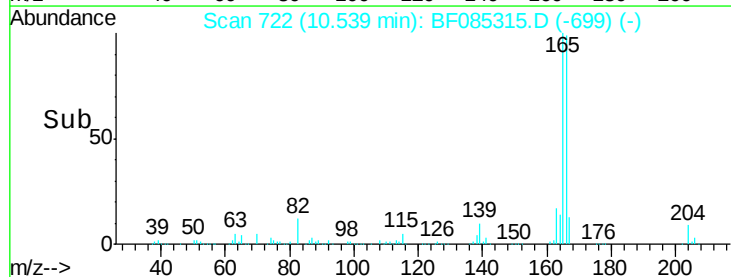
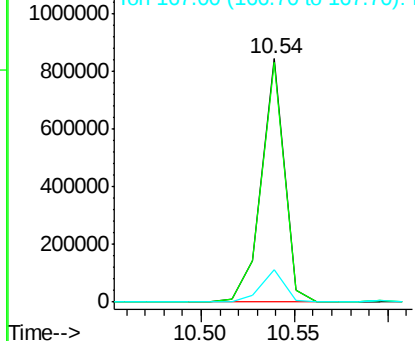
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 713671 |       |       |
| 165     | 98.4  | 79.4   | 119.0 |       |
| 167     | 13.5  | 11.0   | 16.6  |       |

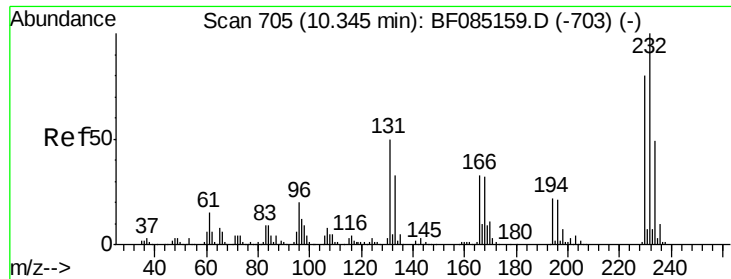


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#58

2,3,4,6-Tetrachlorophenol

Concen: 38.73 ng

RT: 10.31 min Scan# 702

Delta R.T. -0.03 min

Lab File: BF085315.D

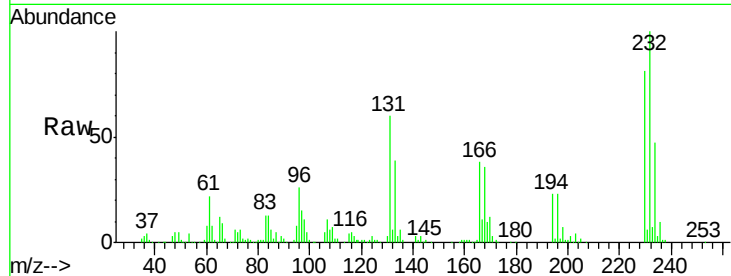
Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

UST-SW-SEMS



Tgt Ion:232 Resp: 171056

Ion Ratio Lower Upper

232 100

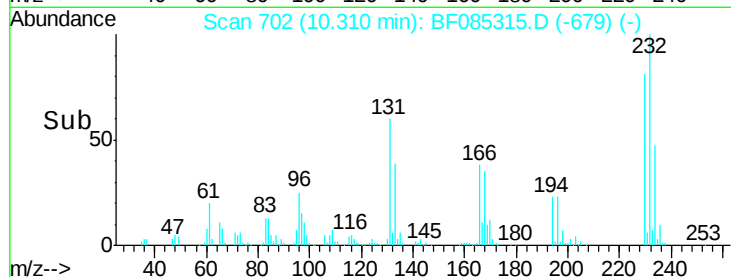
131 55.2 46.0 69.0

130 2.8 2.2 3.4

166 35.0 28.8 43.2

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



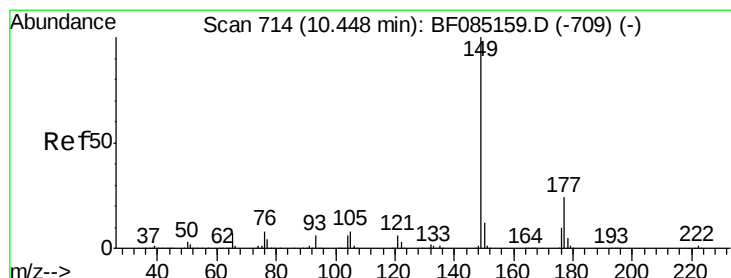
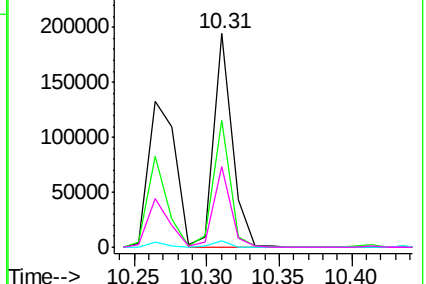
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

Time-->



#59

Diethylphthalate

Concen: 34.78 ng

RT: 10.41 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

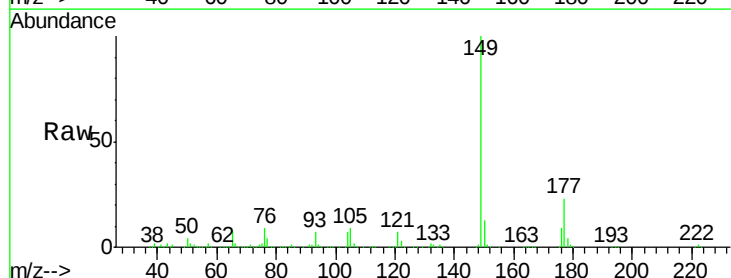
Tgt Ion:149 Resp: 806973

Ion Ratio Lower Upper

149 100

177 22.8 19.2 28.8

150 12.9 9.9 14.9

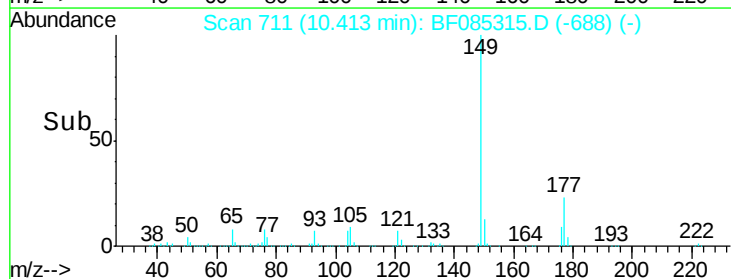
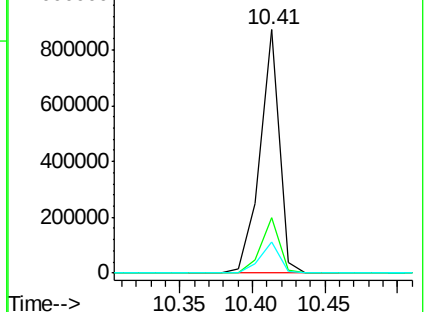


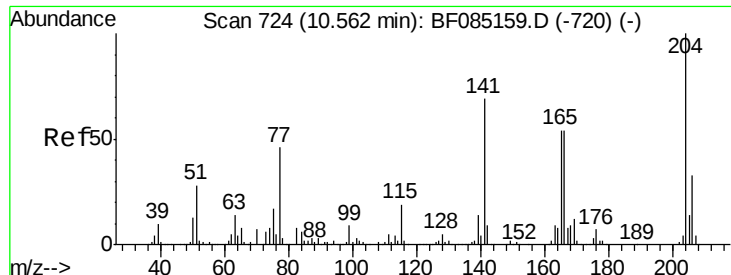
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

Time-->





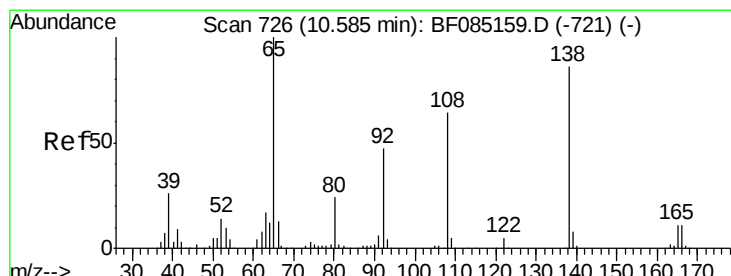
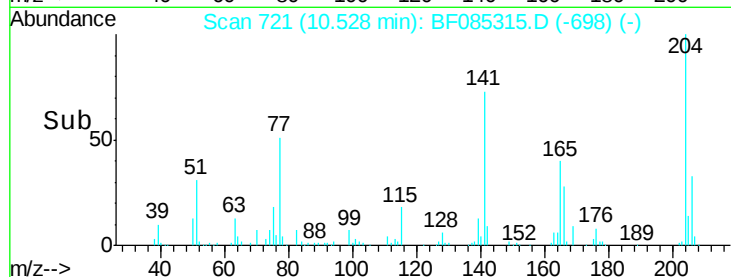
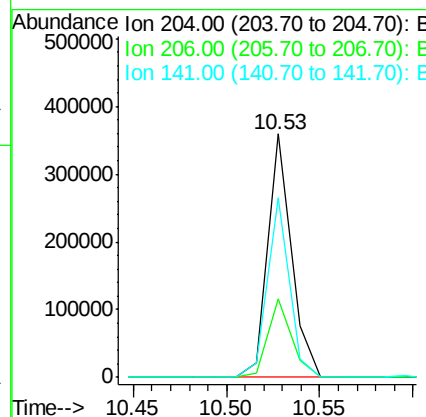
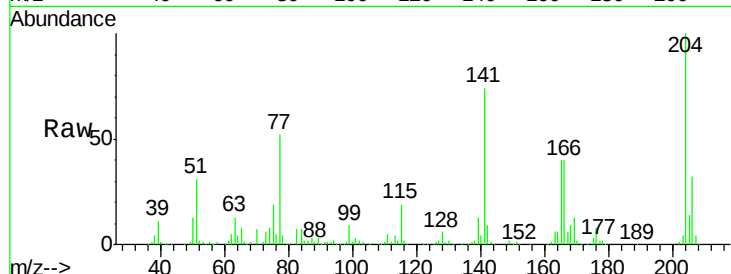
#60  
4-Chlorophenyl-phenylether  
Concen: 32.74 ng  
RT: 10.53 min Scan# 721  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 204     | 100   | 314243 |       |       |
| 206     | 32.4  | 26.5   | 39.7  |       |
| 141     | 73.8  | 55.4   | 83.2  |       |

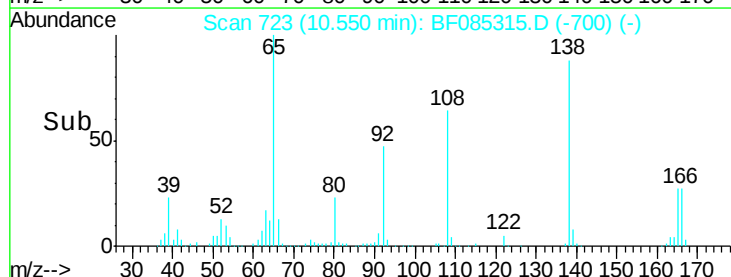
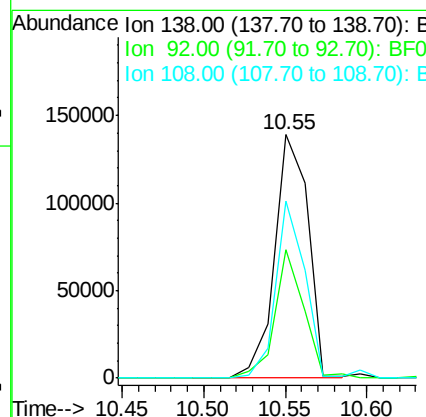
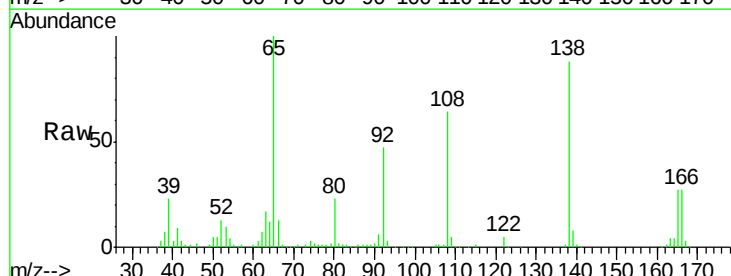
Manual Integrations  
APPROVED

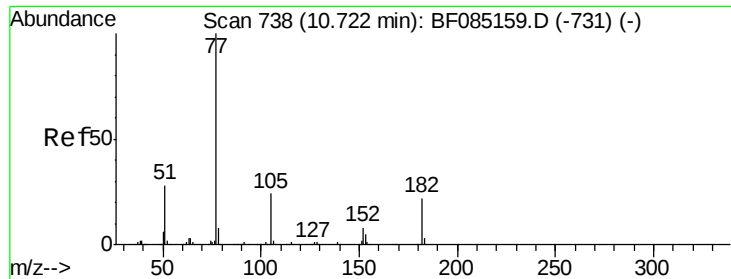
UMANGI  
3/10/2016 3:03:36 PM



#61  
4-Nitroaniline  
Concen: 34.70 ng  
RT: 10.55 min Scan# 723  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 138     | 100   | 198577 |       |       |
| 92      | 52.9  | 34.2   | 74.2  |       |
| 108     | 72.8  | 53.9   | 93.9  |       |





#62

Azobenzene

Concen: 34.06 ng

RT: 10.69 min Scan# 735

Delta R.T. -0.03 min

Lab File: BF085315.D

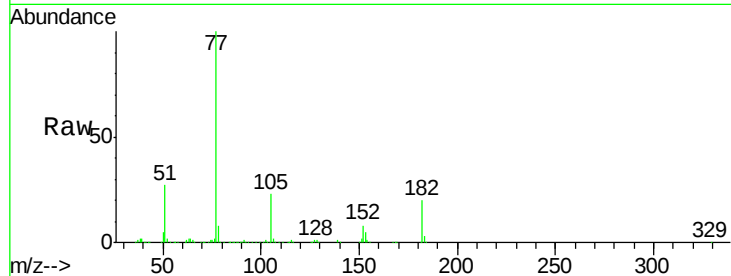
Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

ClientSampleId :

UST-SW-SEMS



Tgt Ion: 77 Resp: 778557

Ion Ratio Lower Upper

77 100

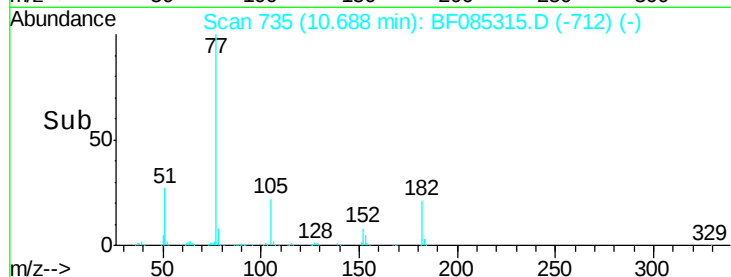
182 20.5 2.1 42.1

105 22.7 3.8 43.8

51 26.9 7.8 47.8

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

1200000

1000000

800000

600000

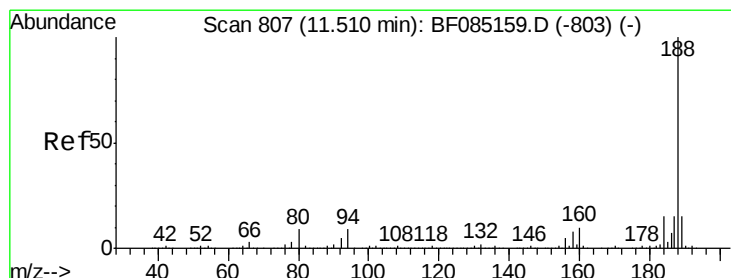
400000

200000

0

10.60 10.70

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.48 min Scan# 804

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

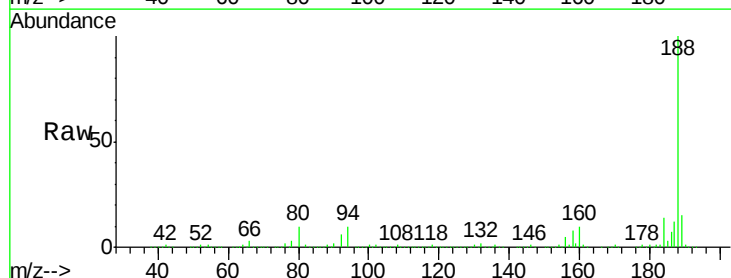
Tgt Ion: 188 Resp: 599962

Ion Ratio Lower Upper

188 100

94 9.9 7.0 10.6

80 10.3 7.4 11.0



Abundance Ion 188.00 (187.70 to 188.70): BF0

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

800000

600000

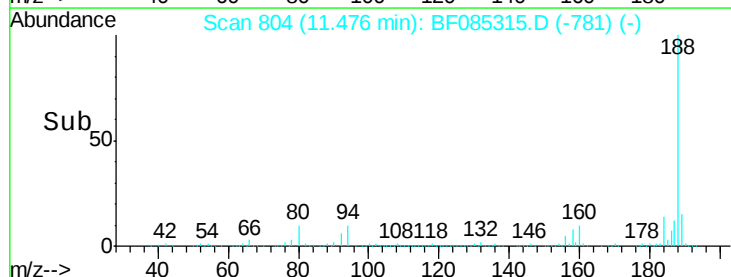
400000

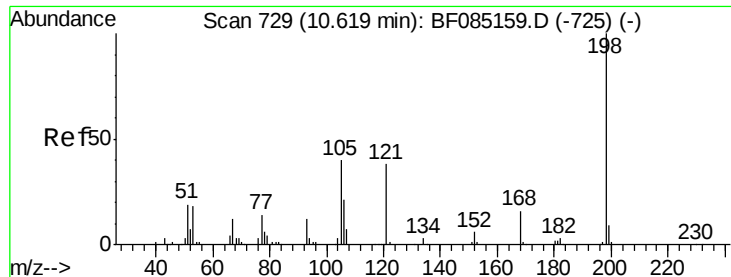
200000

0

11.40 11.45 11.50

Time-->





#64

4,6-Dinitro-2-methylphenol

Concen: 29.53 ng

RT: 10.58 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

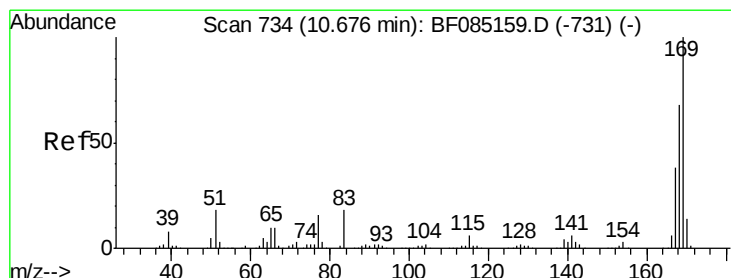
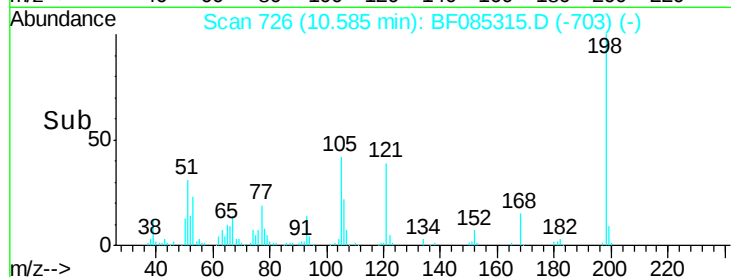
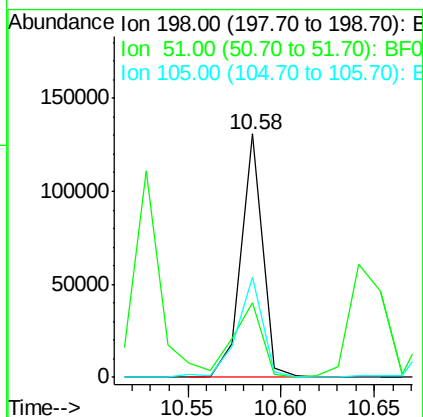
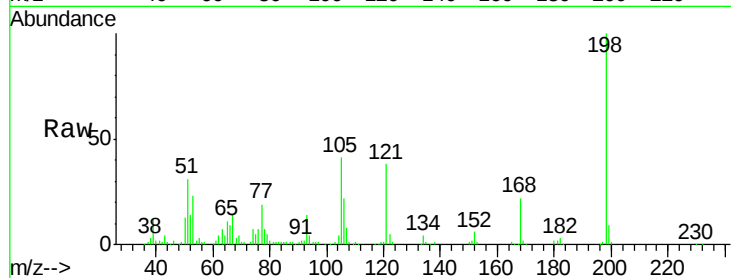
ClientSampleId :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 198   | Resp: | 106064 |
| Ion Ratio | Lower | Upper |        |
| 198       | 100   |       |        |
| 51        | 30.8  | 9.5   | 49.5   |
| 105       | 41.1  | 20.5  | 60.5   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#65

n-Nitrosodiphenylamine

Concen: 35.52 ng

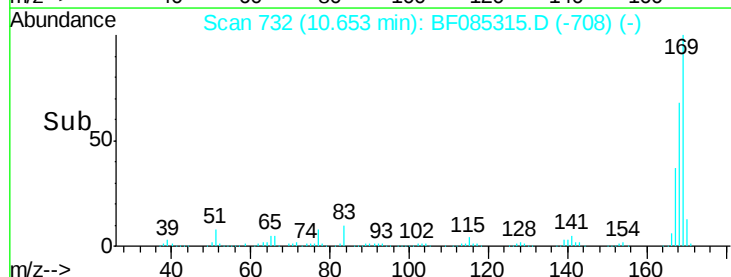
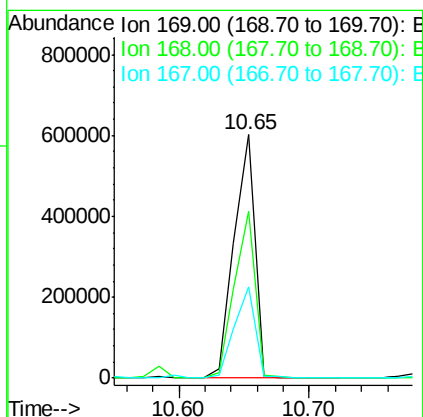
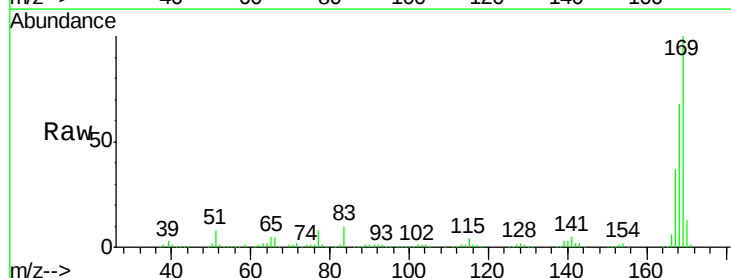
RT: 10.65 min Scan# 732

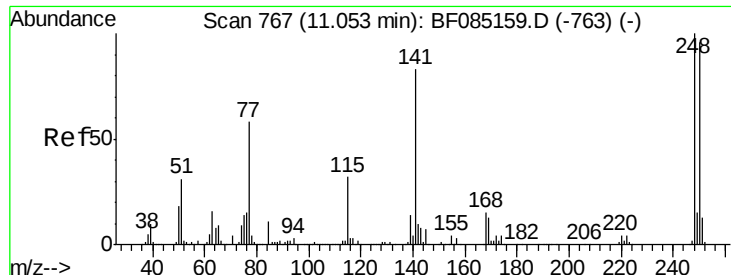
Delta R.T. -0.02 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 169   | Resp: | 662815 |
| Ion Ratio | Lower | Upper |        |
| 169       | 100   |       |        |
| 168       | 68.4  | 54.8  | 82.2   |
| 167       | 37.4  | 30.3  | 45.5   |





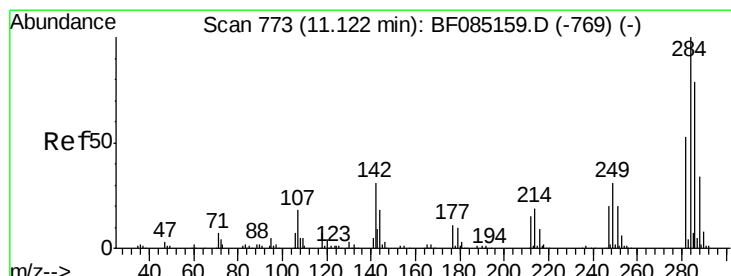
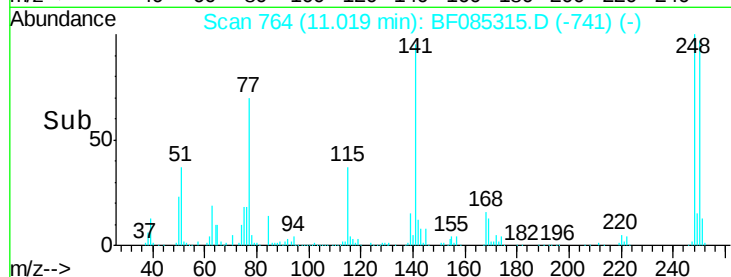
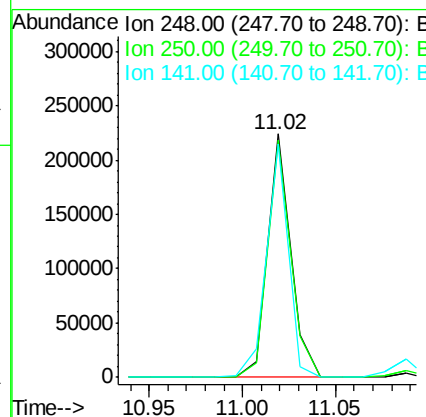
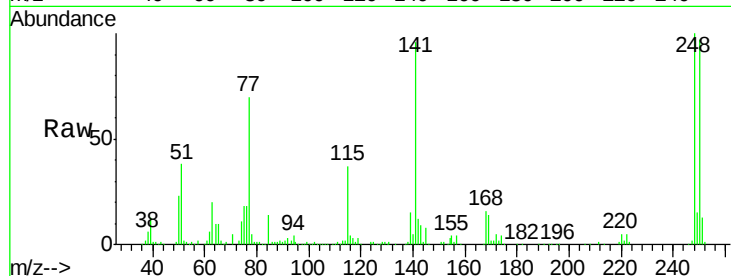
#66  
4-Bromophenyl-phenylether  
Concen: 32.71 ng  
RT: 11.02 min Scan# 764  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 248     | 100   | 190582 |       |       |
| 250     | 97.5  | 77.1   | 115.7 |       |
| 141     | 96.1  | 66.2   | 99.2  |       |

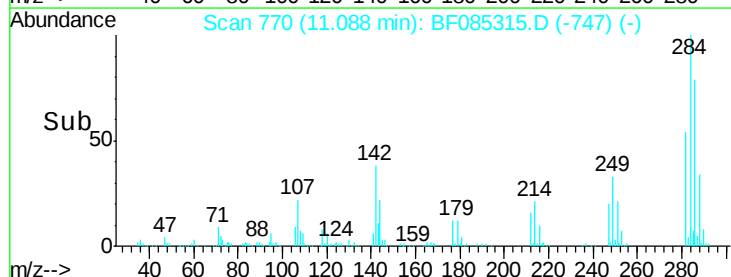
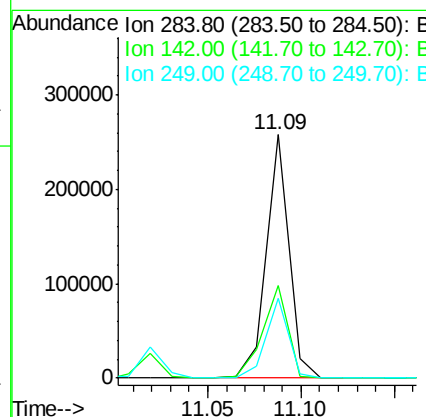
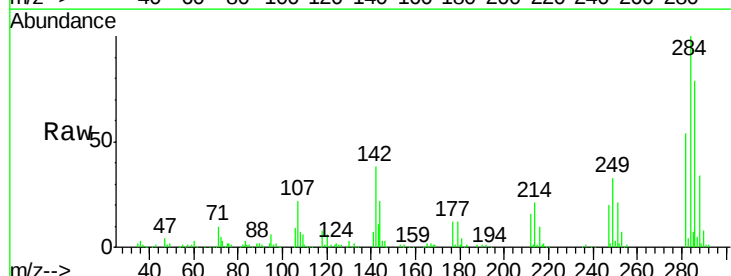
Manual Integrations  
APPROVED

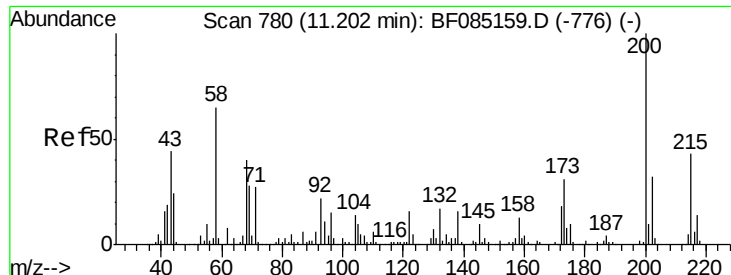
UMANGI  
3/10/2016 3:03:36 PM



#67  
Hexachlorobenzene  
Concen: 34.61 ng  
RT: 11.09 min Scan# 770  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 284     | 100   | 215104 |       |       |
| 142     | 37.9  | 24.9   | 37.3# |       |
| 249     | 33.0  | 25.0   | 37.4  |       |





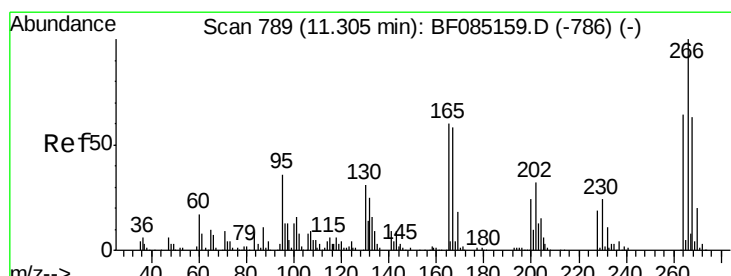
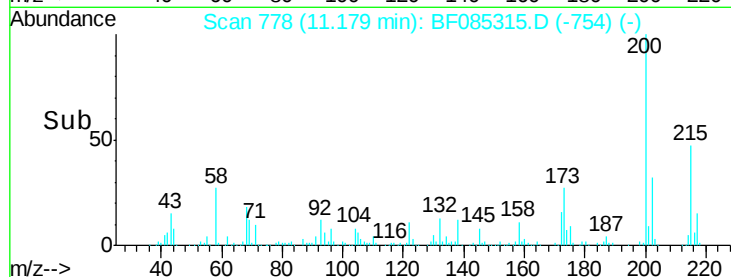
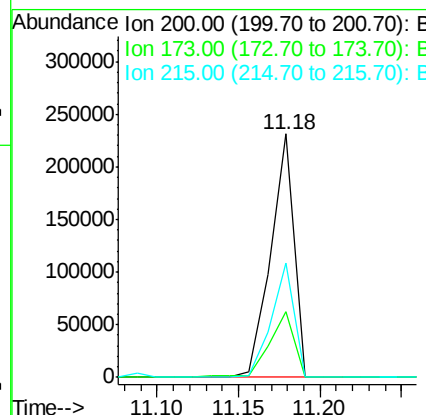
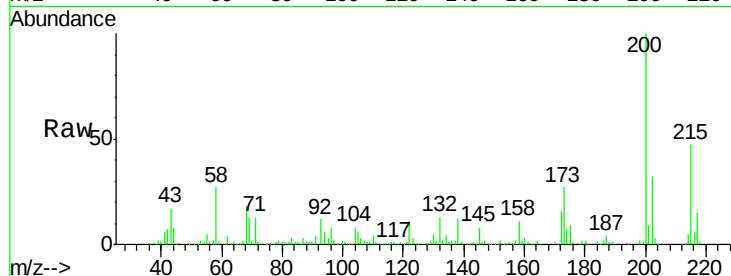
#68  
 Atrazine  
 Concen: 44.26 ng  
 RT: 11.18 min Scan# 778  
 Delta R.T. -0.02 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 200     | 100   |            |            |
| 173     | 26.9  | 10.5       | 50.5       |
| 215     | 47.1  | 23.4       | 63.4       |

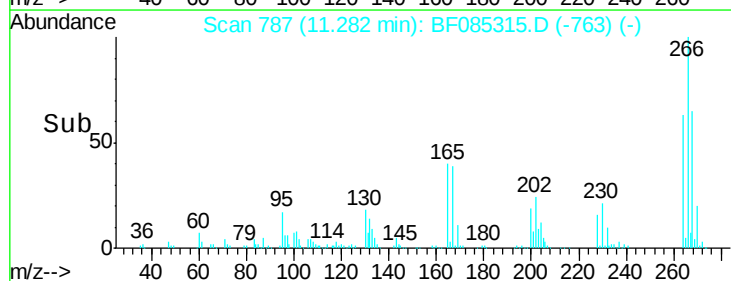
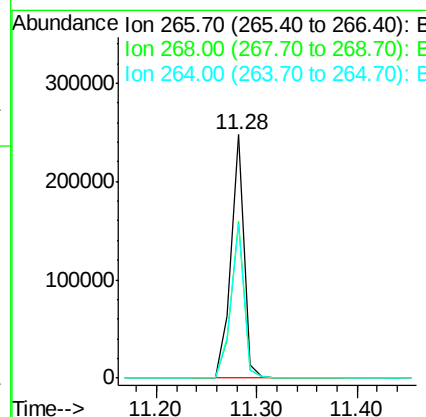
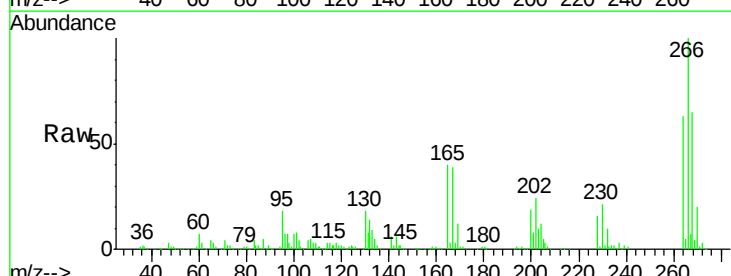
Manual Integrations  
 APPROVED

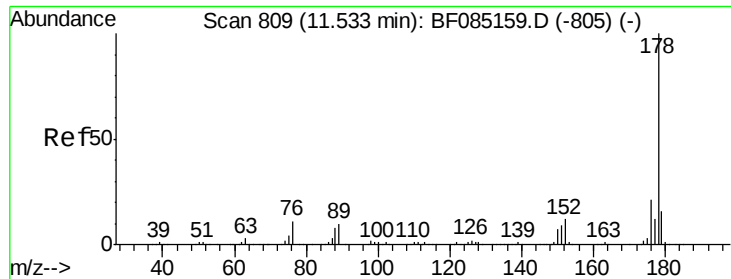
UMANGI  
 3/10/2016 3:03:36 PM



#69  
 Pentachlorophenol  
 Concen: 65.65 ng  
 RT: 11.28 min Scan# 787  
 Delta R.T. -0.02 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 266     | 100   |            |            |
| 268     | 64.5  | 50.0       | 75.0       |
| 264     | 63.1  | 51.4       | 77.2       |





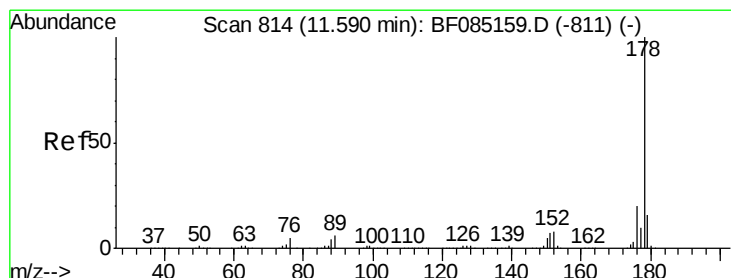
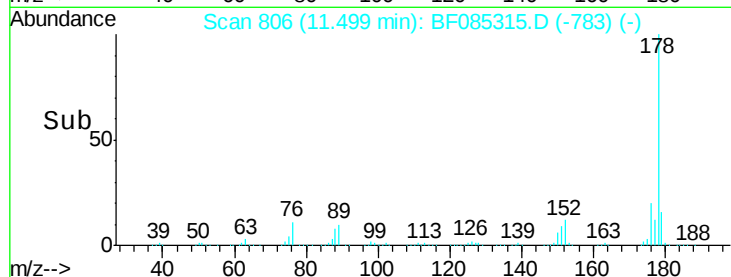
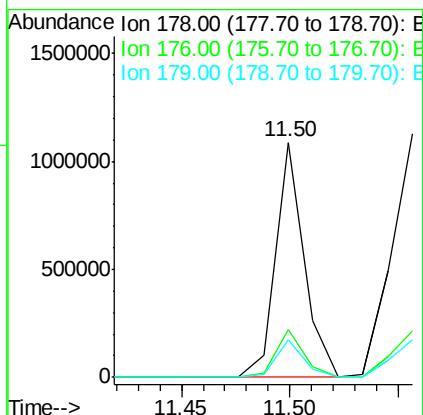
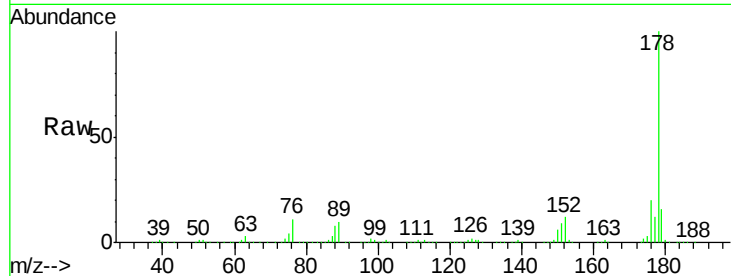
#70  
Phenanthrene  
Concen: 31.88 ng  
RT: 11.50 min Scan# 806  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

Tgt Ion:178 Resp: 1002405  
Ion Ratio Lower Upper  
178 100  
176 20.3 16.8 25.2  
179 16.0 13.1 19.7

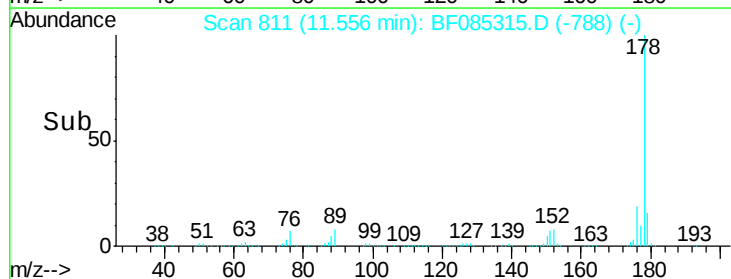
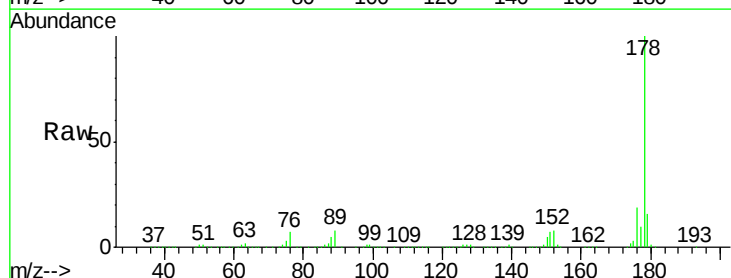
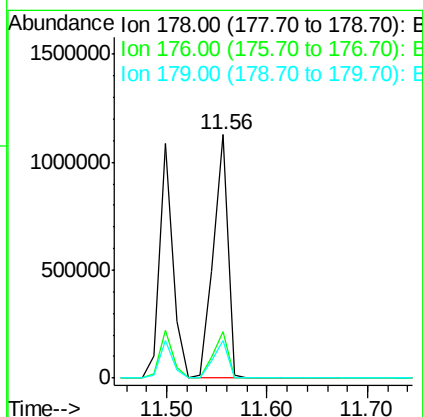
Manual Integrations  
APPROVED

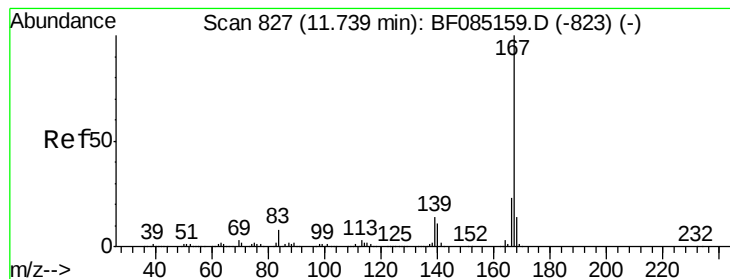
UMANGI  
3/10/2016 3:03:36 PM



#71  
Anthracene  
Concen: 33.99 ng  
RT: 11.56 min Scan# 811  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Tgt Ion:178 Resp: 1134645  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.9 23.9  
179 15.6 12.5 18.7





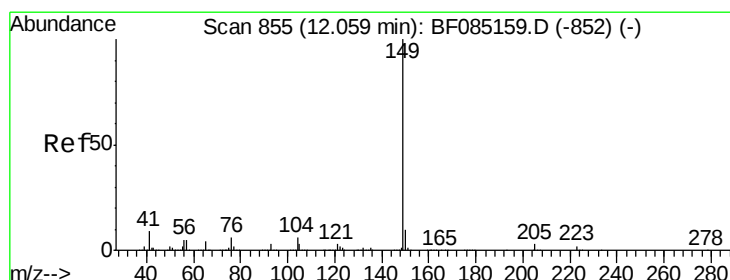
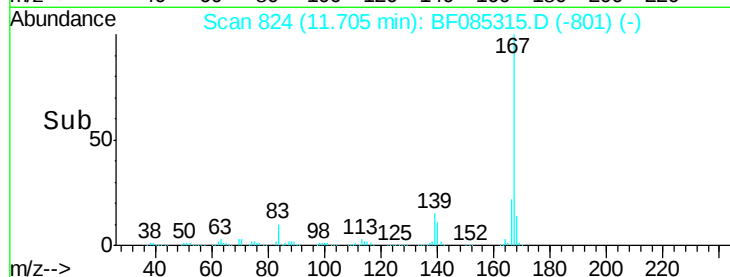
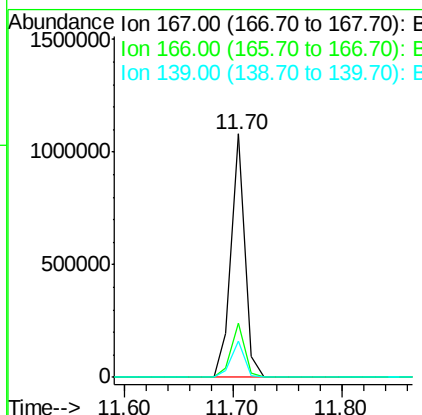
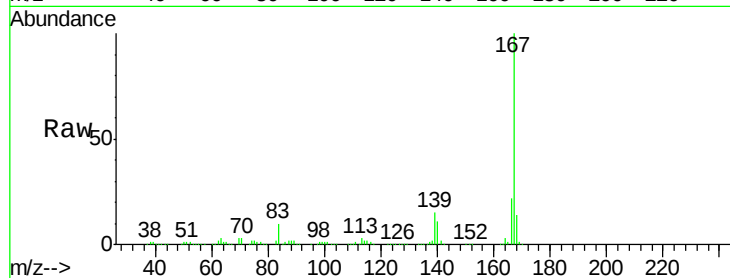
#72  
 Carbazole  
 Concen: 32.29 ng  
 RT: 11.70 min Scan# 824  
 Delta R.T. -0.03 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 944990 |       |       |
| 166     | 22.2  | 18.2   | 27.2  |       |
| 139     | 14.9  | 11.4   | 17.0  |       |

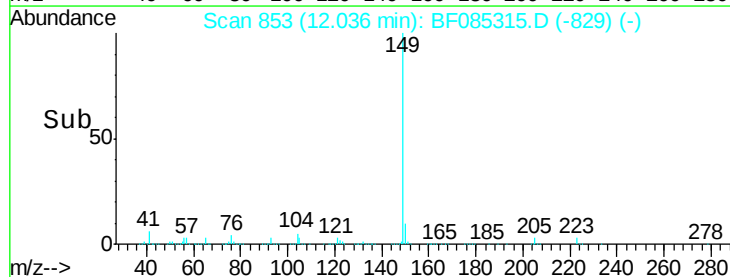
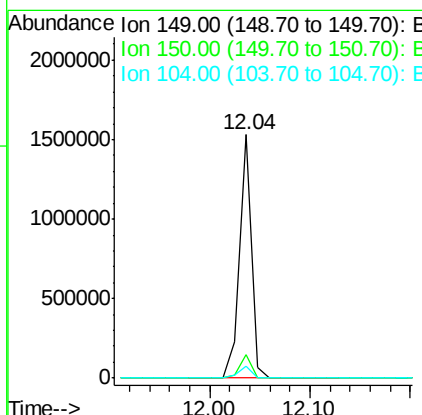
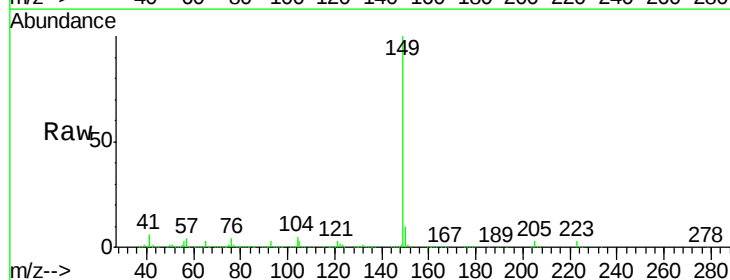
Manual Integrations  
 APPROVED

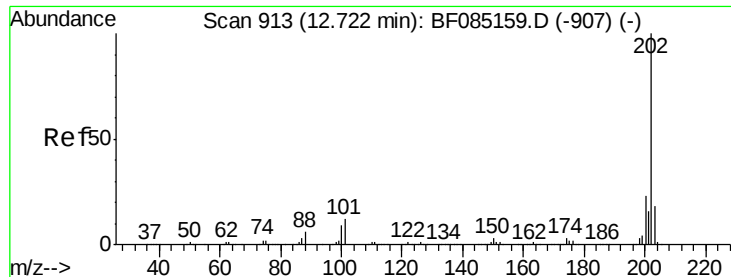
UMANGI  
 3/10/2016 3:03:36 PM



#73  
 Di-n-butylphthalate  
 Concen: 33.96 ng  
 RT: 12.04 min Scan# 853  
 Delta R.T. -0.02 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 149     | 100   | 1256467 |       |       |
| 150     | 9.7   | 7.8     | 11.6  |       |
| 104     | 4.9   | 4.7     | 7.1   |       |





#74

Fluoranthene

Concen: 33.95 ng

RT: 12.69 min Scan# 910

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

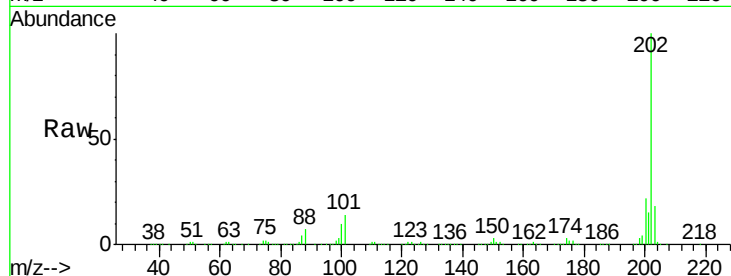
ClientSampleId :

UST-SW-SEMS

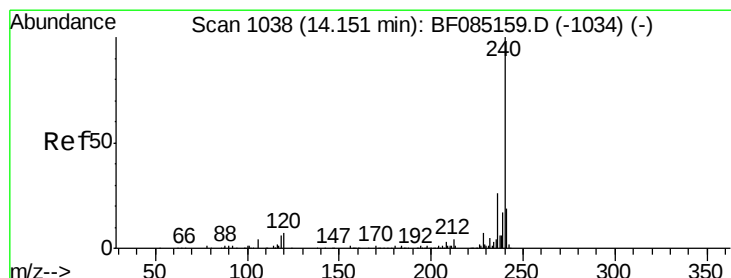
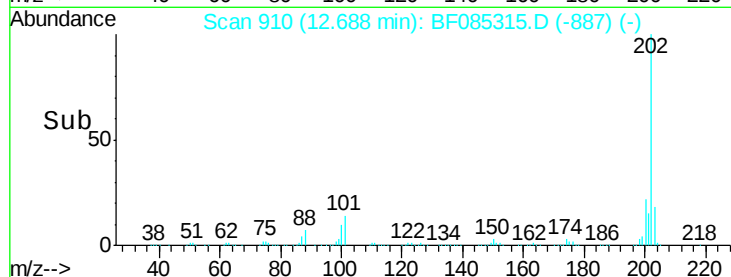
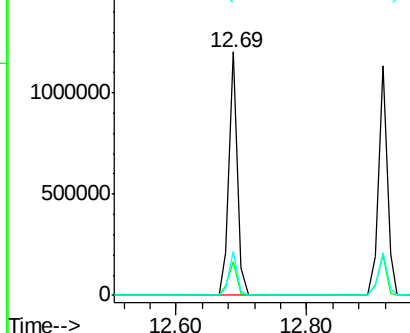
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1071212 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 13.8  | 0.0   | 31.8    |
| 203       | 18.1  | 0.0   | 38.4    |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

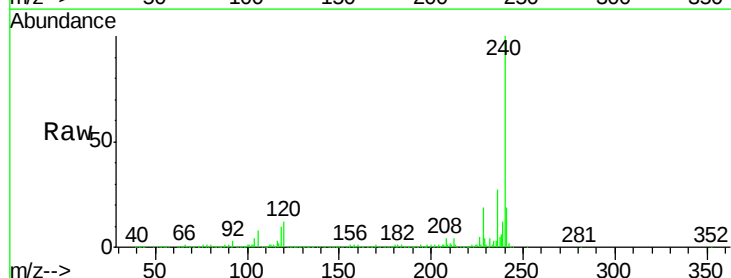
RT: 14.12 min Scan# 1035

Delta R.T. -0.03 min

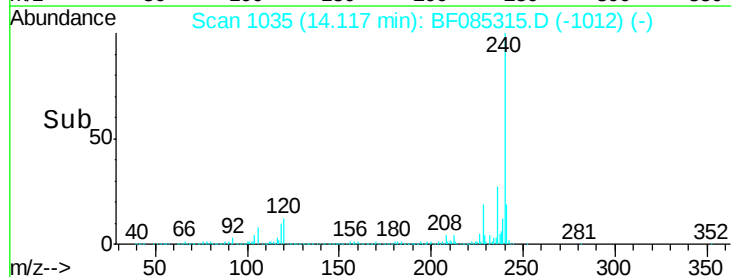
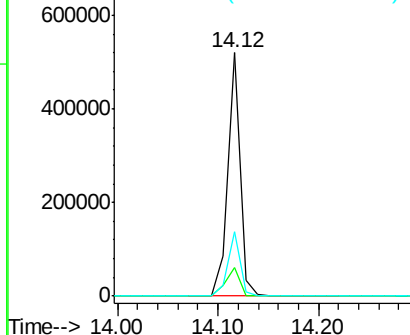
Lab File: BF085315.D

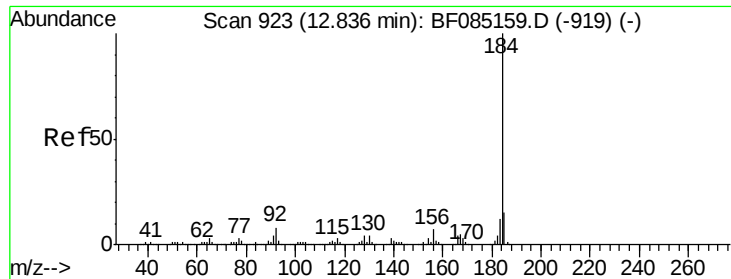
Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 443774 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.6  | 5.3   | 7.9#   |
| 236       | 26.6  | 20.7  | 31.1   |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 27.24 ng

RT: 12.80 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

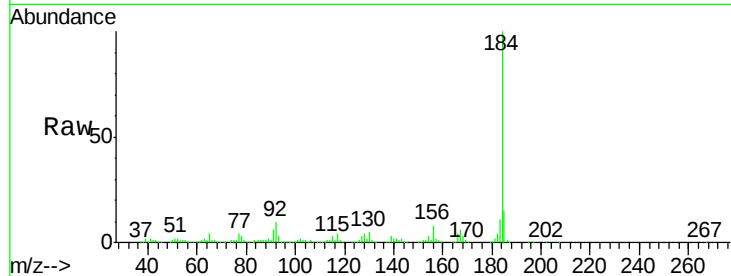
ClientSampleId :

UST-SW-SEMS

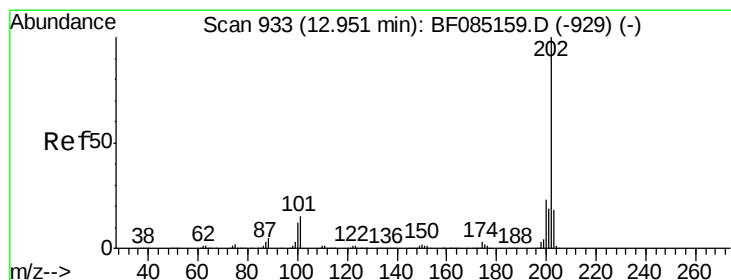
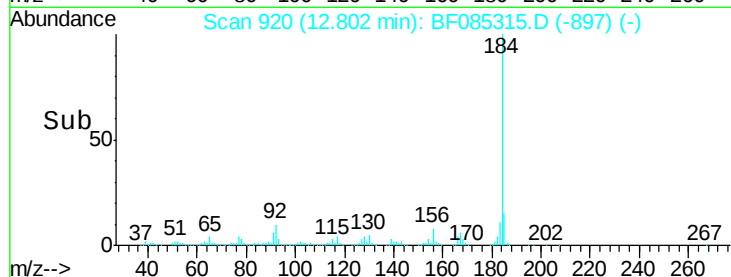
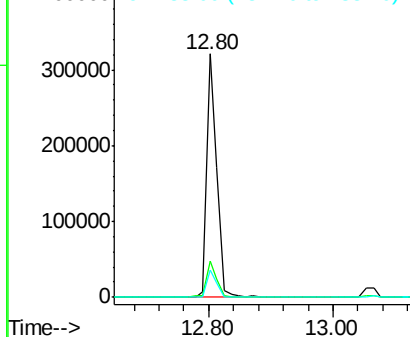
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 184   | Resp: | 359742 |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 185       | 14.9  | 12.4  | 18.6   |
| 183       | 11.1  | 9.4   | 14.2   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 31.71 ng

RT: 12.92 min Scan# 930

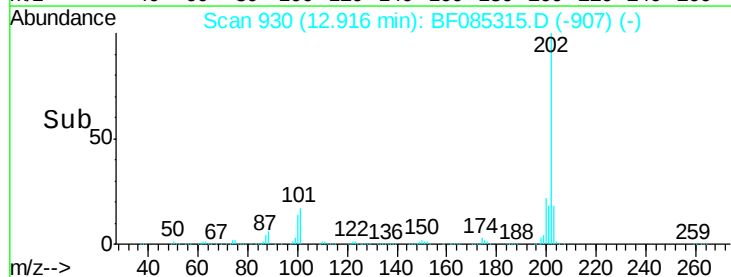
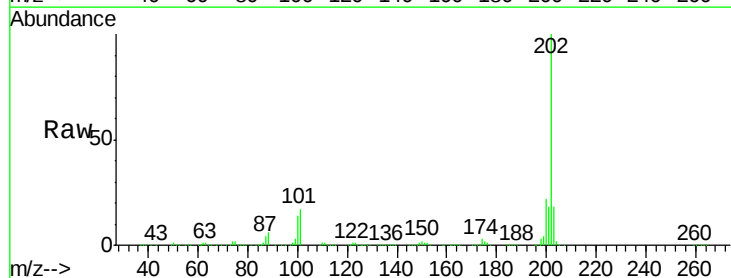
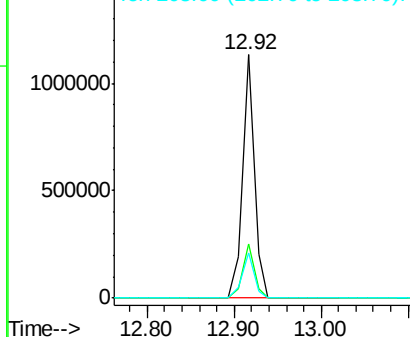
Delta R.T. -0.03 min

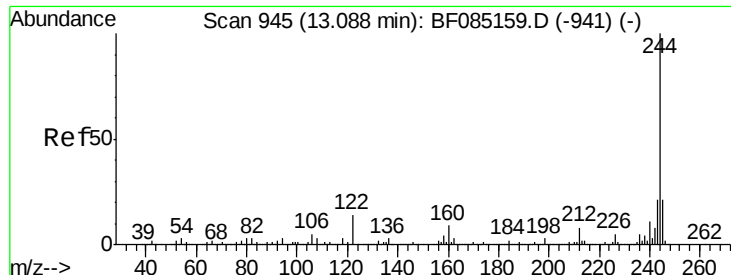
Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1059195 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 22.4  | 18.2  | 27.4    |
| 203       | 18.4  | 14.7  | 22.1    |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





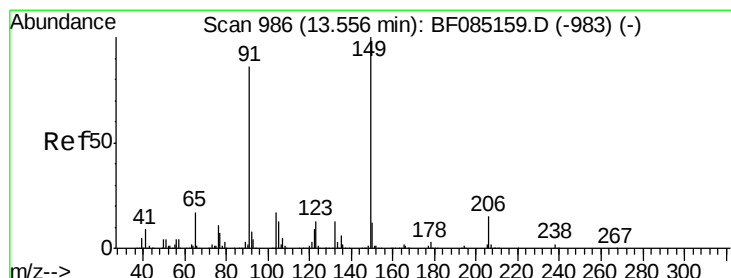
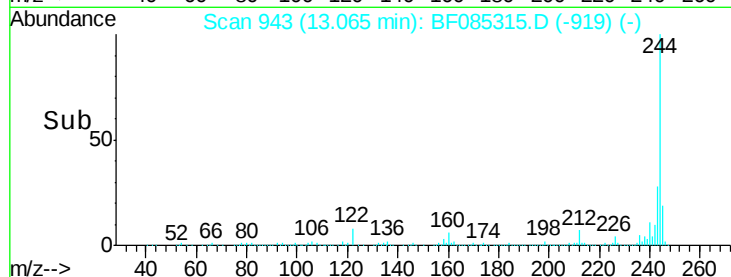
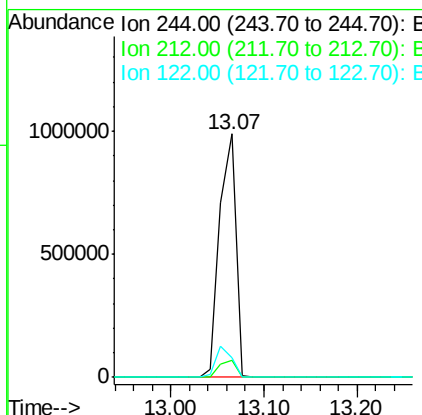
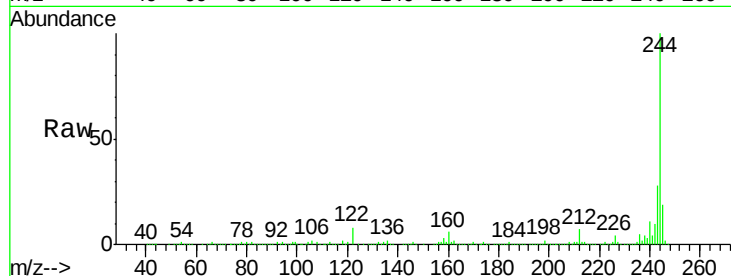
#78  
 Terphenyl-d14  
 Concen: 62.53 ng  
 RT: 13.07 min Scan# 943  
 Delta R.T. -0.02 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-SW-SEMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 6.4   | 9.6   |
| 122     | 7.9   | 11.4  | 17.2# |

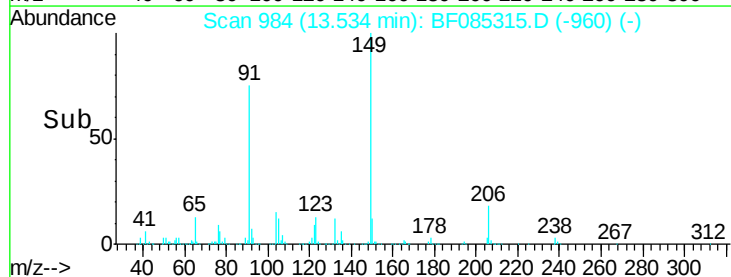
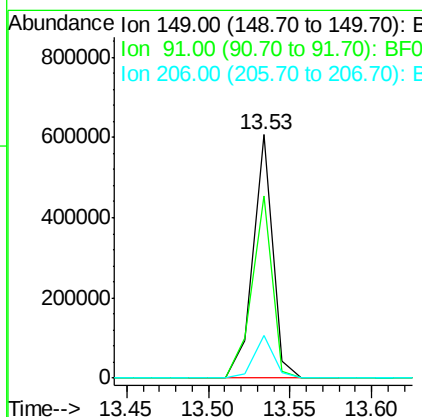
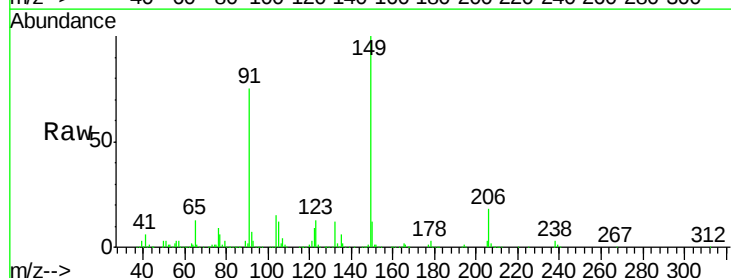
Manual Integrations  
 APPROVED

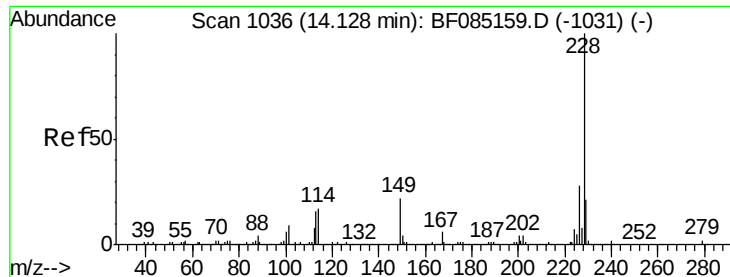
UMANGI  
 3/10/2016 3:03:36 PM



#79  
 Butylbenzylphthalate  
 Concen: 33.63 ng  
 RT: 13.53 min Scan# 984  
 Delta R.T. -0.02 min  
 Lab File: BF085315.D  
 Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 74.8  | 69.0  | 103.4 |
| 206     | 17.7  | 12.3  | 18.5  |





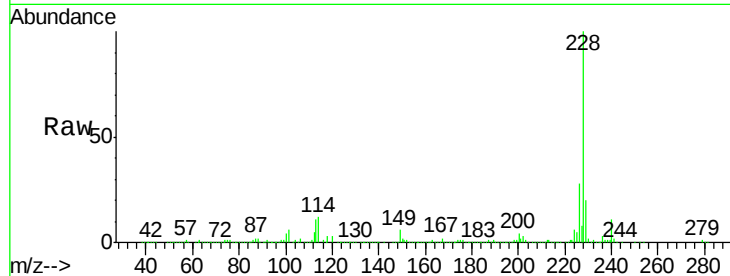
#80  
Benzo(a)anthracene  
Concen: 32.12 ng  
RT: 14.11 min Scan# 1034  
Delta R.T. -0.02 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

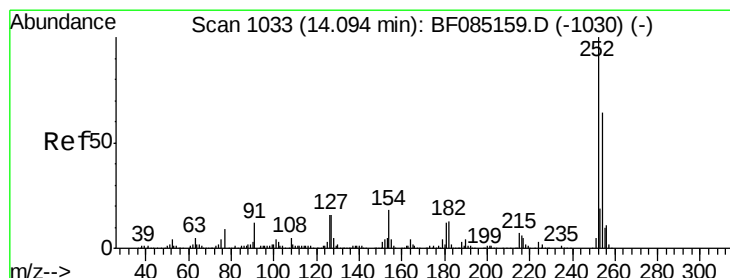
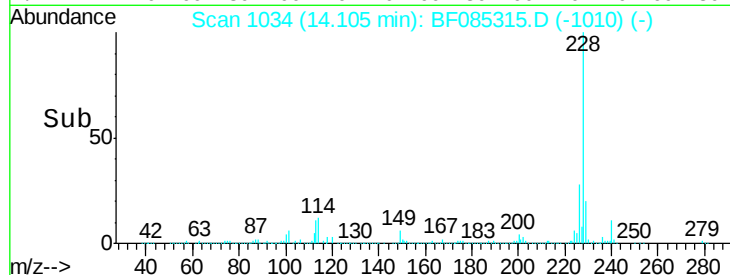
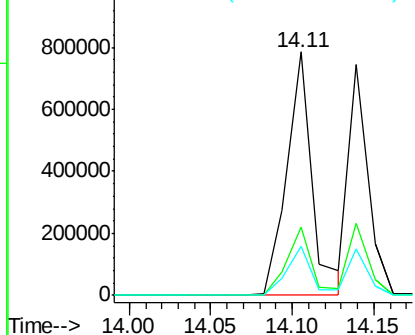
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.1  | 22.8  | 34.2  |
| 229     | 20.1  | 16.6  | 24.8  |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM

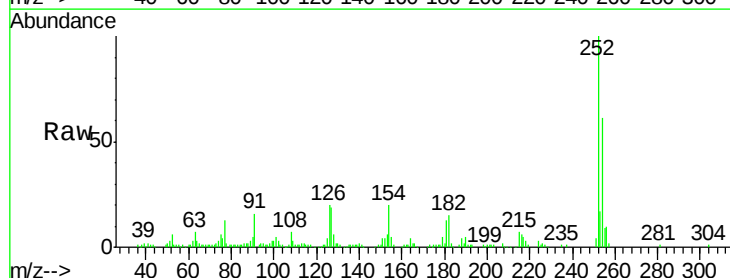


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

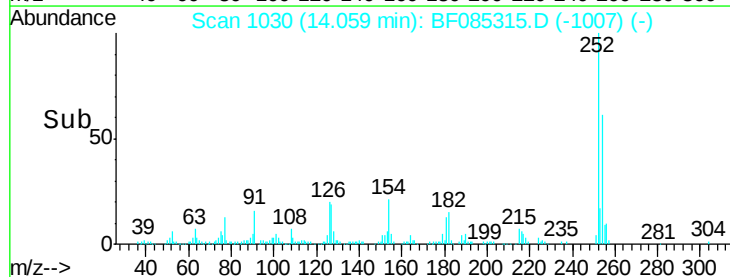
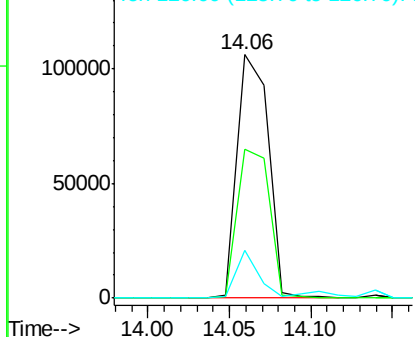


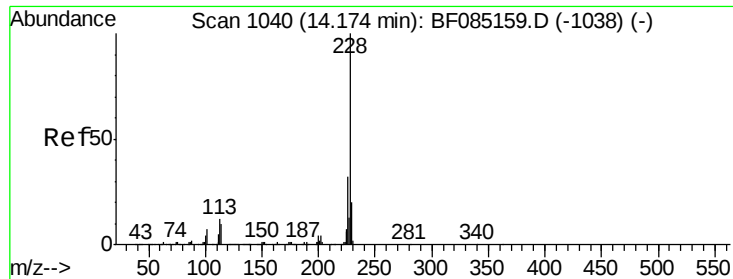
#81  
3,3'-Dichlorobenzidine  
Concen: 16.75 ng  
RT: 14.06 min Scan# 1030  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 61.1  | 51.4  | 77.0  |
| 126     | 19.7  | 12.9  | 19.3  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 254.00 (253.70 to 254.70): E  
Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 26.02 ng

RT: 14.14 min Scan# 1037

Delta R.T. -0.03 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

Instrument :

BNA\_F

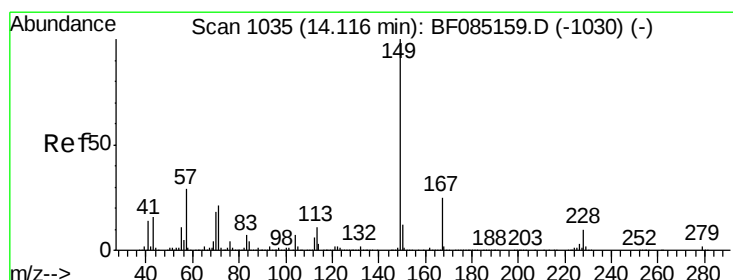
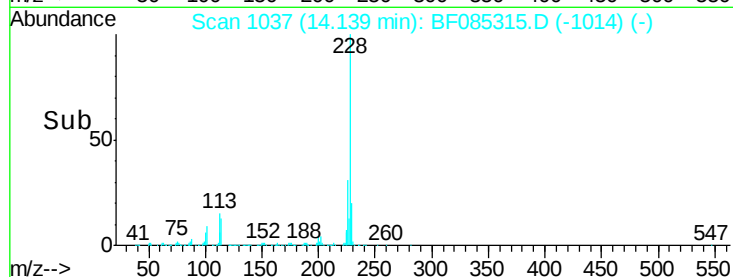
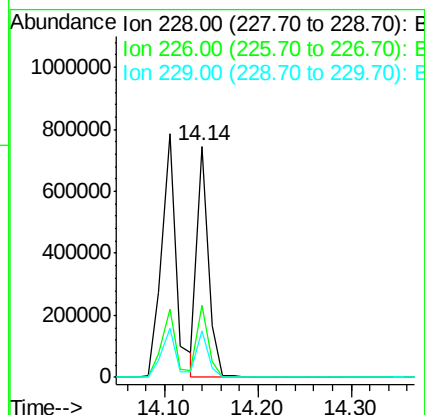
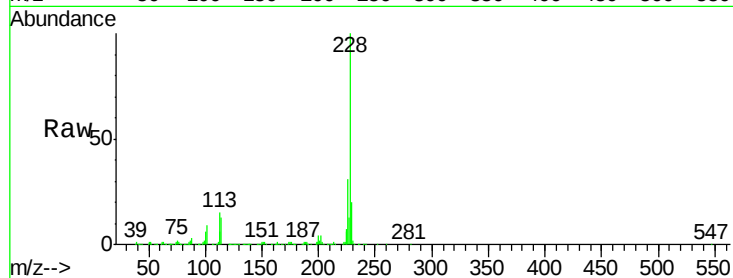
ClientSampled :

UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 638499 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.2  | 25.2  | 37.8   |
| 229       | 20.3  | 16.0  | 24.0   |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#83

Bis(2-ethylhexyl)phthalate

Concen: 31.79 ng

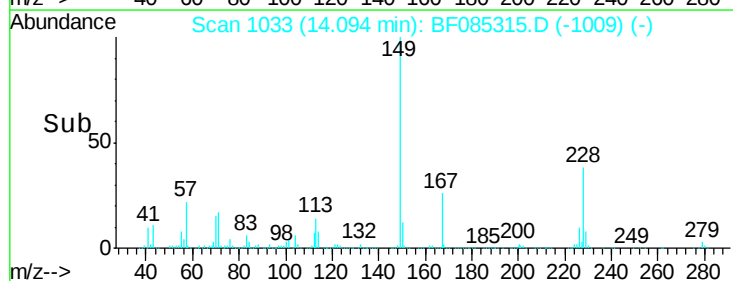
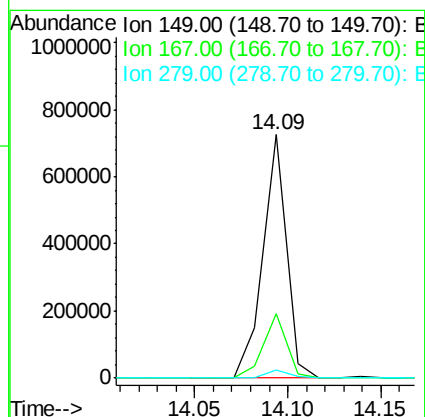
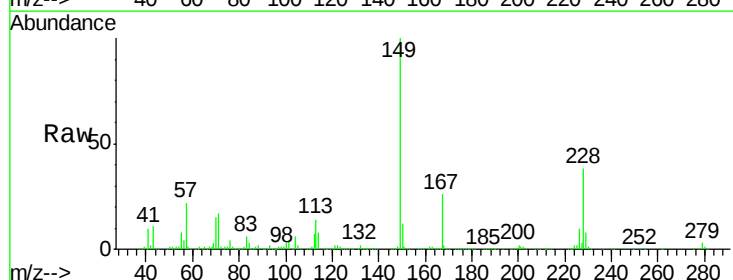
RT: 14.09 min Scan# 1033

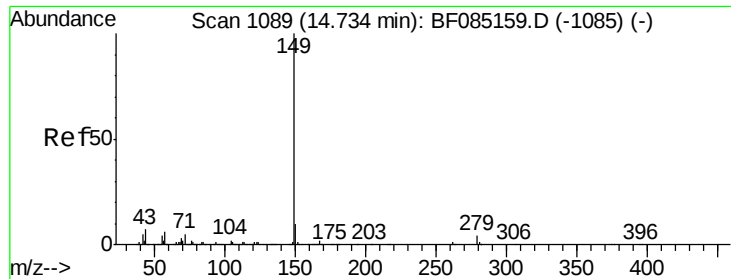
Delta R.T. -0.02 min

Lab File: BF085315.D

Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 633999 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 26.3  | 20.3  | 30.5   |
| 279       | 3.3   | 1.9   | 2.9#   |





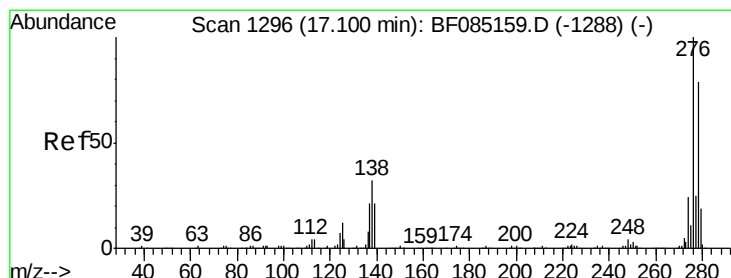
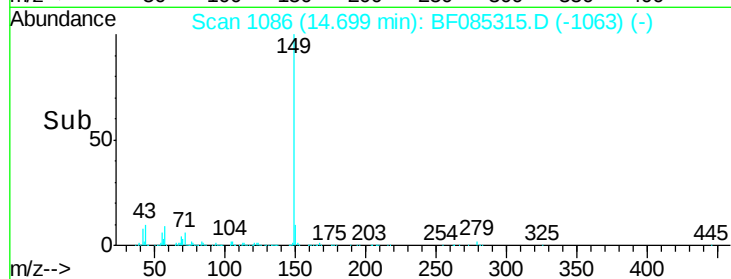
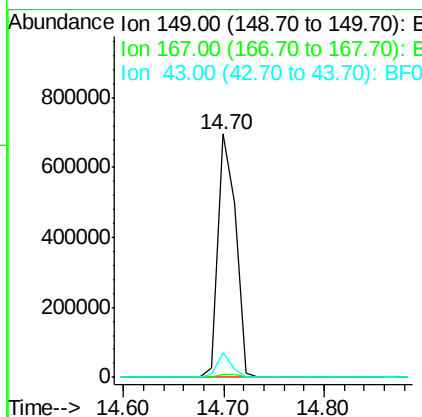
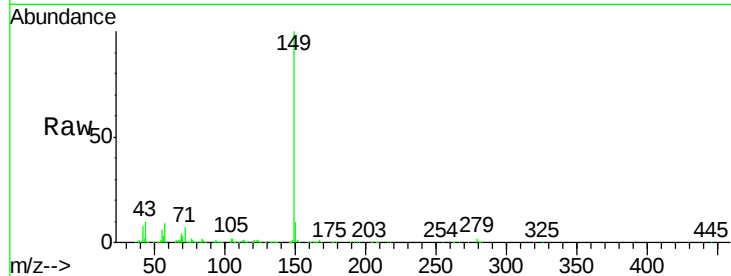
#84  
Di-n-octyl phthalate  
Concen: 27.95 ng  
RT: 14.70 min Scan# 1086  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 848881 |       |       |
| 167     | 1.5   |        | 1.1   | 1.7   |
| 43      | 8.1   |        | 7.8   | 11.8  |

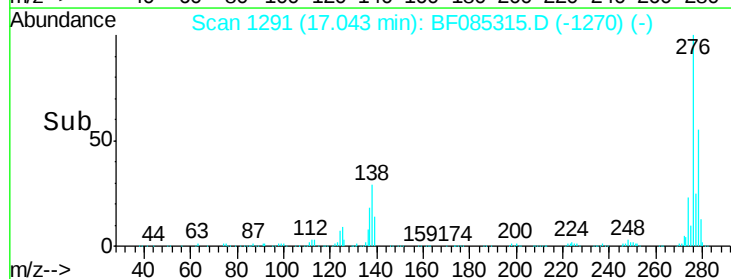
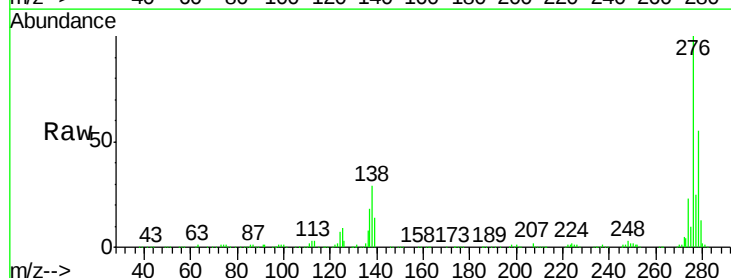
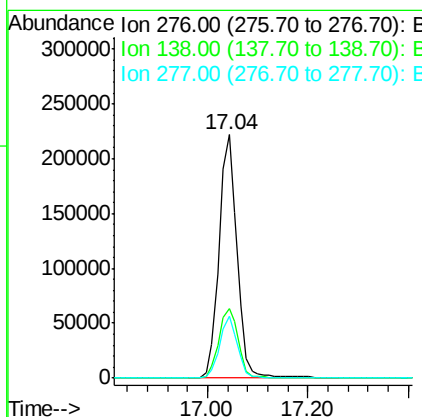
Manual Integrations  
APPROVED

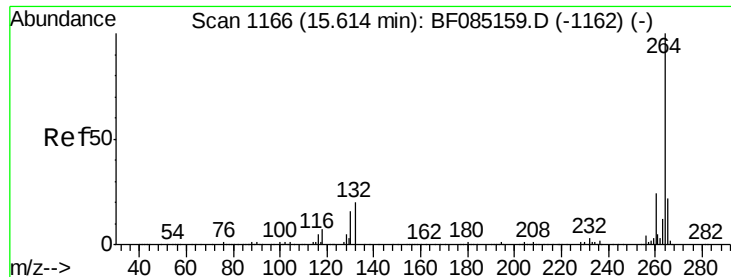
UMANGI  
3/10/2016 3:03:36 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 28.86 ng  
RT: 17.04 min Scan# 1291  
Delta R.T. -0.06 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 552677 |       |       |
| 138     | 31.2  |        | 26.4  | 39.6  |
| 277     | 25.2  |        | 20.2  | 30.2  |





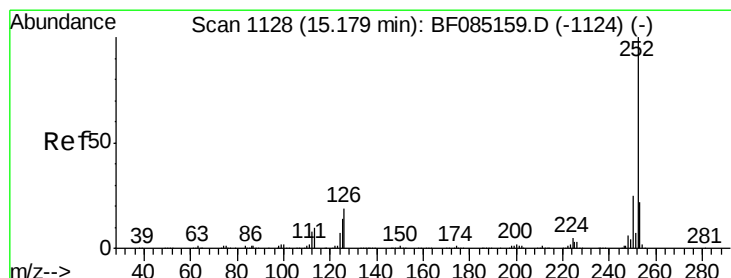
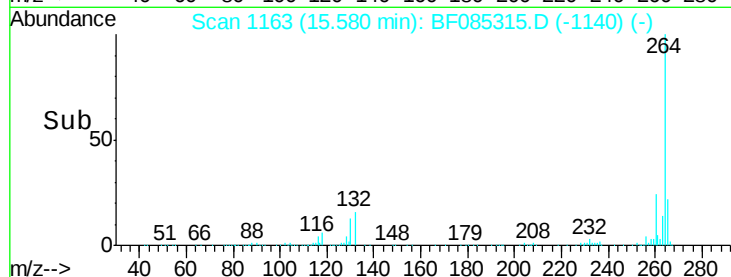
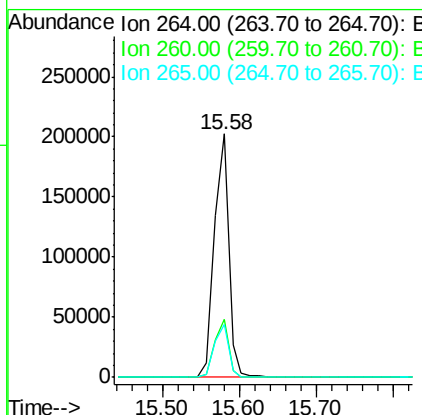
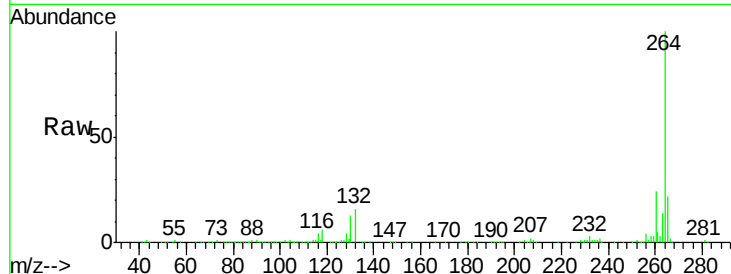
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.58 min Scan# 1163  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 21.5  | 17.3  | 25.9  |

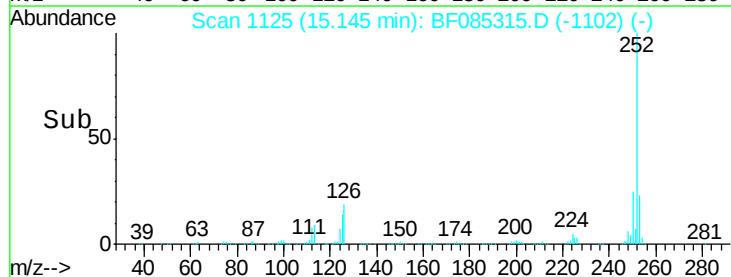
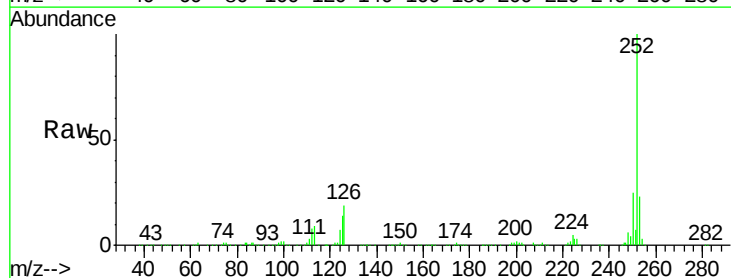
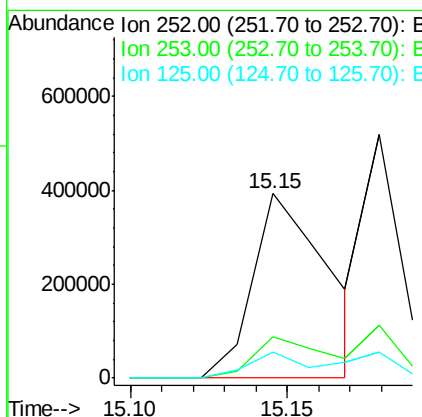
Manual Integrations  
APPROVED

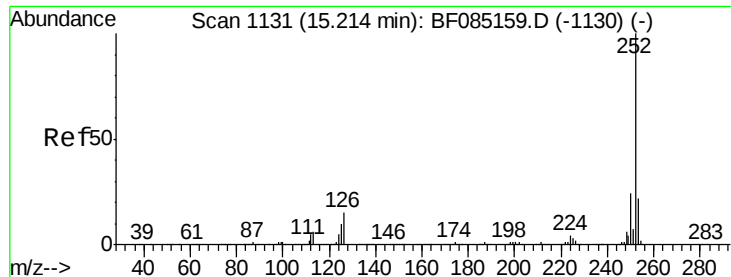
UMANGI  
3/10/2016 3:03:36 PM



#87  
Benzo(b)fluoranthene  
Concen: 36.79 ng m  
RT: 15.15 min Scan# 1125  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.8  | 26.6  |
| 125     | 14.2  | 11.3  | 16.9  |





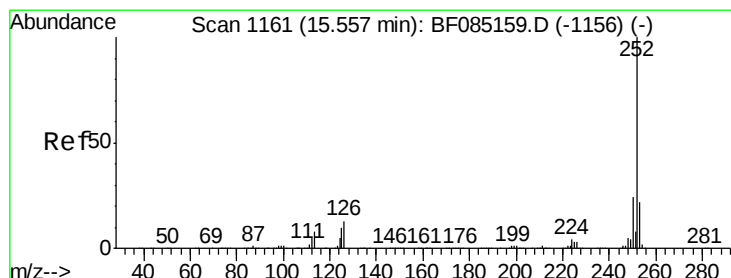
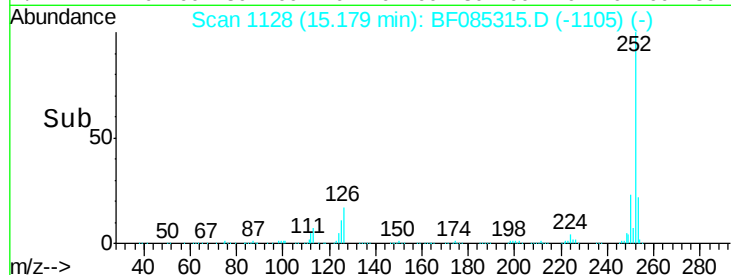
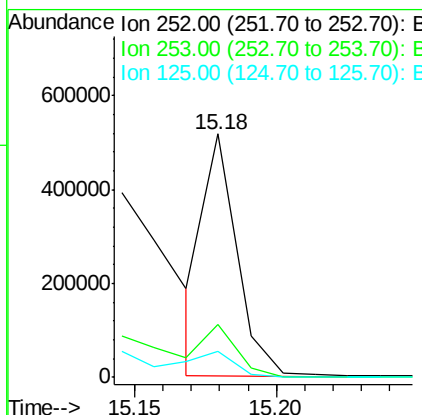
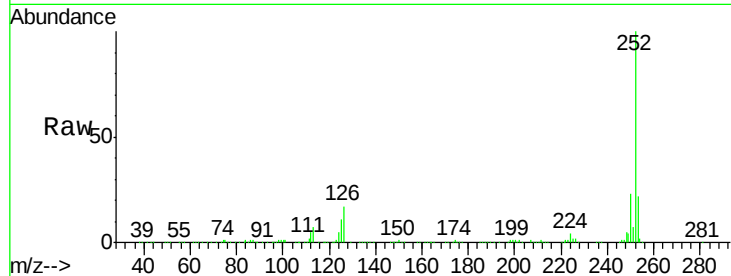
#88  
Benzo(k)fluoranthene  
Concen: 29.81 ng m  
RT: 15.18 min Scan# 1128  
Delta R.T. -0.03 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 424447 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.8  | 17.8  | 26.6   |
| 125       | 10.9  | 10.4  | 15.6   |

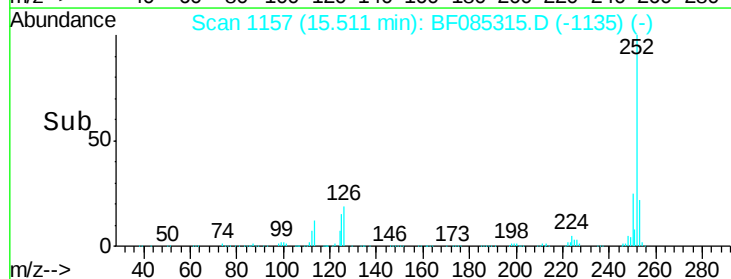
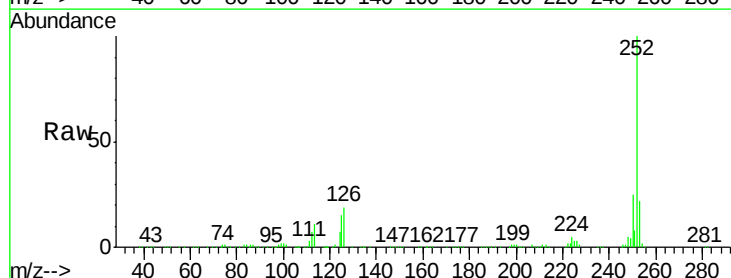
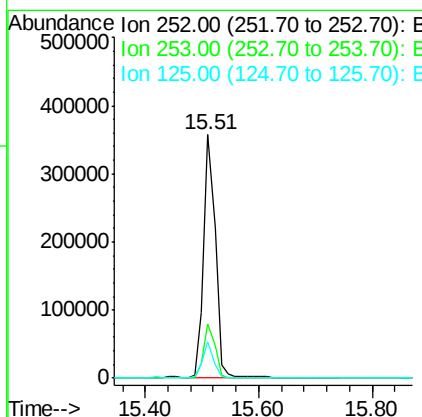
Manual Integrations  
APPROVED

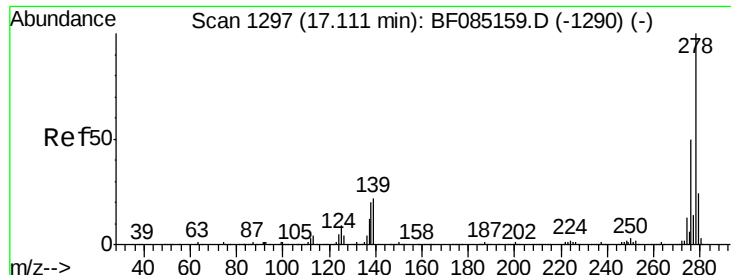
UMANGI  
3/10/2016 3:03:36 PM



#89  
Benzo(a)pyrene  
Concen: 33.63 ng  
RT: 15.51 min Scan# 1157  
Delta R.T. -0.05 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 491897 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.2  | 17.4  | 26.0   |
| 125       | 15.1  | 8.2   | 12.4#  |





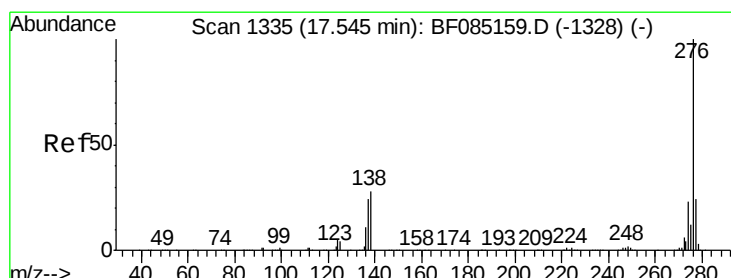
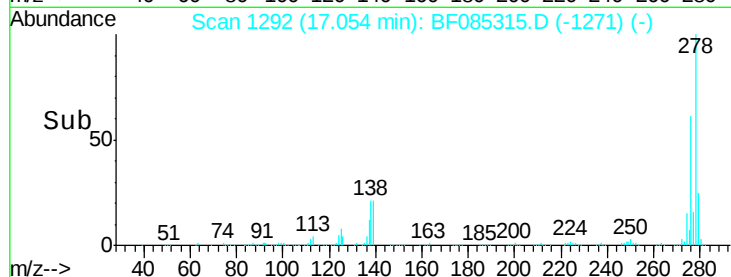
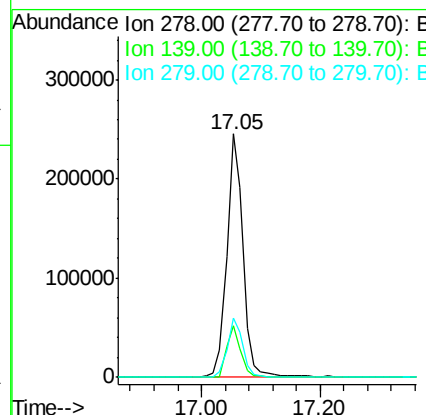
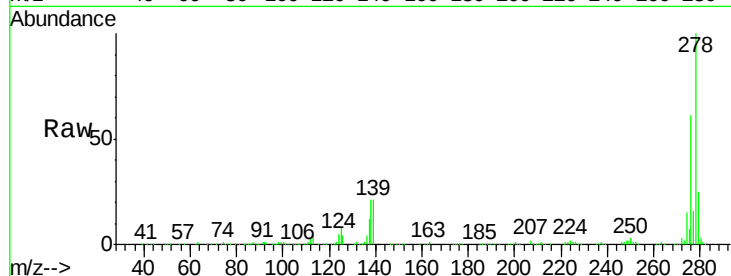
#90  
Dibenzo(a,h)anthracene  
Concen: 37.38 ng  
RT: 17.05 min Scan# 1292  
Delta R.T. -0.06 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

Instrument :  
BNA\_F  
ClientSampleId :  
UST-SW-SEMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.0  | 17.3  | 25.9  |
| 279     | 24.5  | 19.2  | 28.8  |

Manual Integrations  
APPROVED

UMANGI  
3/10/2016 3:03:36 PM



#91  
Benzo(g,h,i)perylene  
Concen: 37.46 ng  
RT: 17.49 min Scan# 1330  
Delta R.T. -0.06 min  
Lab File: BF085315.D  
Acq: 9 Mar 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.2  | 19.0  | 28.4  |
| 138     | 23.4  | 22.5  | 33.7  |

