

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE103116\  
 Data File : BE092486.D  
 Acq On : 31 Oct 2016 19:06  
 Operator : UM/SJ  
 Sample : H5475-01MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 WOOLSTON-TS-004MS

Manual Integrations  
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 11/1/2016 4:15:38 PM

Quant Time: Nov 01 11:13:32 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE102516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 25 15:25:33 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 12242    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.95 | 136  | 56613    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.81 | 164  | 36665    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.56 | 188  | 71079    | 5.00 | ng    | -0.02    |
| 24) Chrysene-d12          | 21.75 | 240  | 95916    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.12 | 264  | 79776    | 5.00 | ng    | 0.01     |

|                             |       |     |       |       |    |       |
|-----------------------------|-------|-----|-------|-------|----|-------|
| System Monitoring Compounds |       |     |       |       |    |       |
| 4) 2-Fluorophenol           | 5.67  | 112 | 23262 | 10.19 | ng | -0.02 |
| 5) Phenol-d6                | 7.34  | 99  | 33264 | 9.69  | ng | -0.02 |
| 8) Nitrobenzene-d5          | 9.32  | 82  | 15988 | 4.00  | ng | -0.05 |
| 13) 2,4,6-Tribromophenol    | 16.31 | 330 | 9689  | 9.72  | ng | -0.01 |
| 14) 2-Fluorobiphenyl        | 13.43 | 172 | 32789 | 3.67  | ng | -0.01 |
| 26) Terphenyl-d14           | 20.17 | 244 | 43167 | 3.64  | ng | -0.02 |

|                                |       |     |         |       |    |        |
|--------------------------------|-------|-----|---------|-------|----|--------|
| Target Compounds               |       |     |         |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.41  | 88  | 3886    | 2.93  | ng | # 61   |
| 3) n-Nitrosodimethylamine      | 3.75  | 42  | 7470    | 3.68  | ng | # 98   |
| 6) bis(2-Chloroethyl)ether     | 7.57  | 93  | 12011   | 3.48  | ng | # 83   |
| 9) Naphthalene                 | 10.99 | 128 | 43091   | 3.52  | ng | # 94   |
| 10) Hexachlorobutadiene        | 11.28 | 225 | 6400    | 3.41  | ng | 99     |
| 11) 2-Methylnaphthalene        | 12.61 | 142 | 29076   | 3.68  | ng | 98     |
| 15) Acenaphthylene             | 14.53 | 152 | 196455  | 3.75  | ng | 100    |
| 16) Acenaphthene               | 14.87 | 154 | 29295   | 3.50  | ng | 94     |
| 17) Fluorene                   | 15.86 | 166 | 39212   | 3.92  | ng | 99     |
| 19) Hexachlorobenzene          | 16.89 | 284 | 11807   | 3.71  | ng | # 62   |
| 20) Pentachlorophenol          | 17.23 | 266 | 14468   | 16.43 | ng | 85     |
| 21) Phenanthrene               | 17.60 | 178 | 70061   | 3.82  | ng | # 95   |
| 22) Anthracene                 | 17.70 | 178 | 74498   | 4.51  | ng | 99     |
| 23) Fluoranthene               | 19.61 | 202 | 312685  | 4.29  | ng | 98     |
| 25) Pyrene                     | 19.97 | 202 | 326339  | 3.90  | ng | 99     |
| 27) Benzo(a)anthracene         | 21.72 | 228 | 349004m | 3.93  | ng |        |
| 28) Chrysene                   | 21.77 | 228 | 296486m | 3.18  | ng |        |
| 29) Bis(2-ethylhexyl)phthalate | 21.63 | 149 | 50445   | 4.76  | ng | # 74   |
| 30) Indeno(1,2,3-cd)pyrene     | 26.63 | 276 | 324247  | 3.94  | ng | # 92   |
| 32) Benzo(b)fluoranthene       | 23.38 | 252 | 74984   | 3.77  | ng | 97     |
| 33) Benzo(k)fluoranthene       | 23.43 | 252 | 69397m  | 3.52  | ng |        |
| 34) Benzo(a)pyrene             | 24.01 | 252 | 72986   | 4.06  | ng | 98     |
| 35) Dibenzo(a,h)anthracene     | 26.65 | 278 | 68734   | 4.09  | ng | 97     |
| 36) Benzo(g,h,i)perylene       | 27.42 | 276 | 273922  | 3.78  | ng | 98     |

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

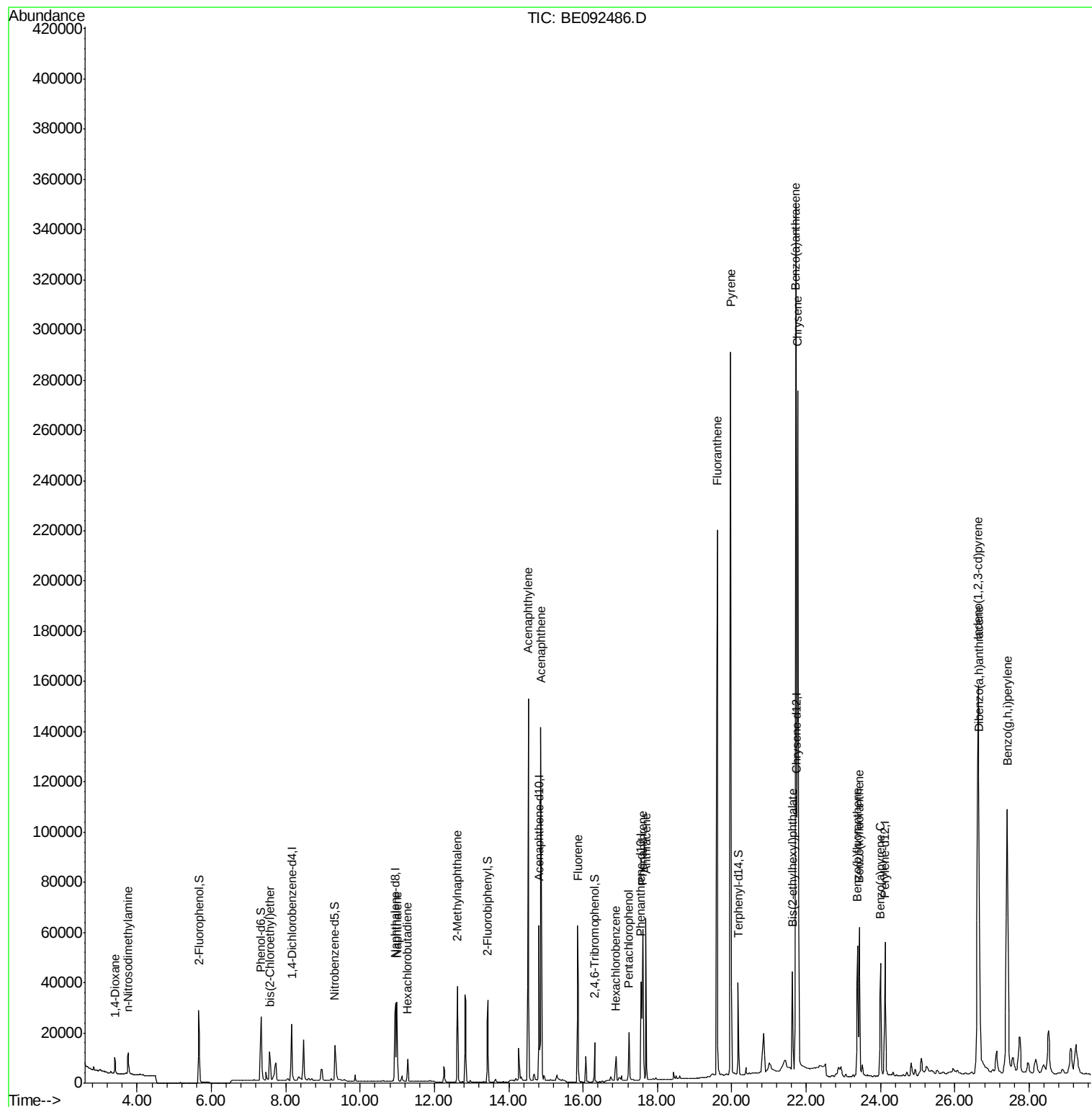
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE103116\  
Data File : BE092486.D  
Acq On : 31 Oct 2016 19:06  
Operator : UM/SJ  
Sample : H5475-01MS  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

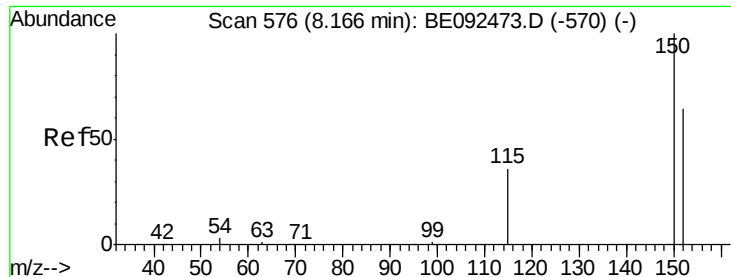
Instrument :  
BNA\_E  
ClientSampleId :  
WOOLSTON-TS-004MS

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Quant Time: Nov 01 11:13:32 2016  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 25 15:25:33 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

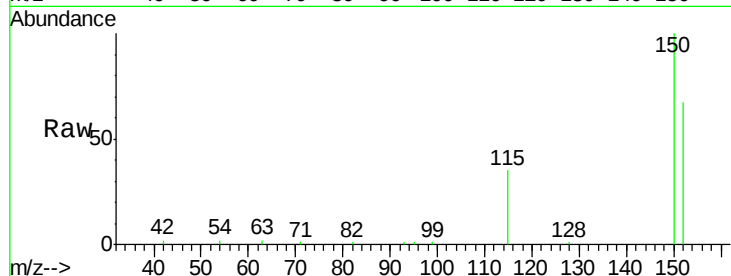
ClientSampleId :

WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.7 | 106.0 | 159.0 |
| 115     | 51.8  | 31.2  | 46.8  |

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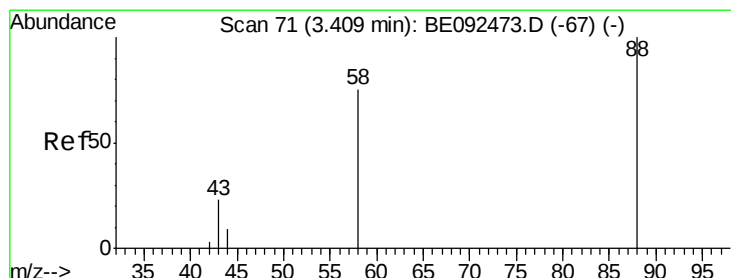
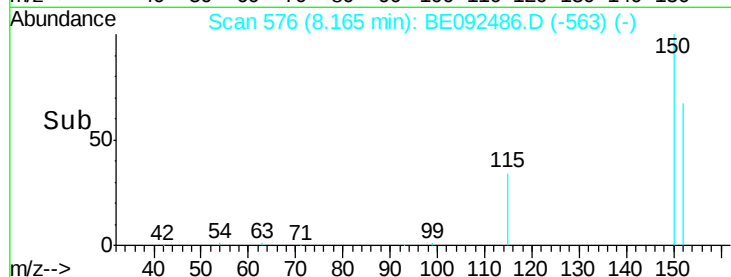
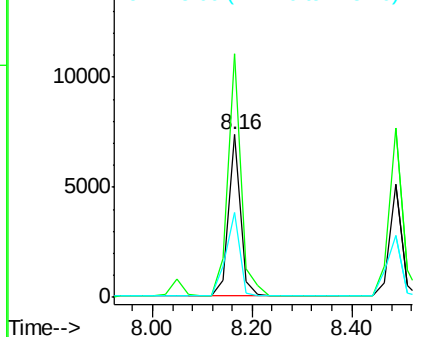


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 2.93 ng

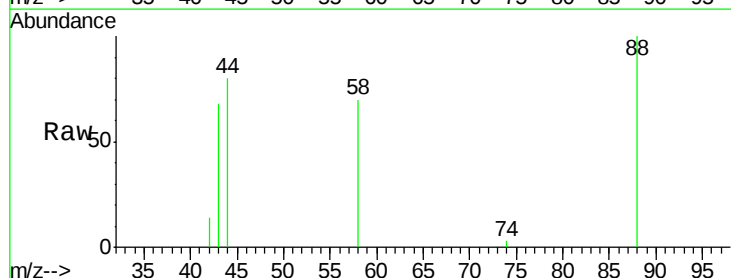
RT: 3.41 min Scan# 71

Delta R.T. 0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 95.4  | 63.6  | 95.4  |
| 43      | 84.5  | 28.0  | 42.0  |

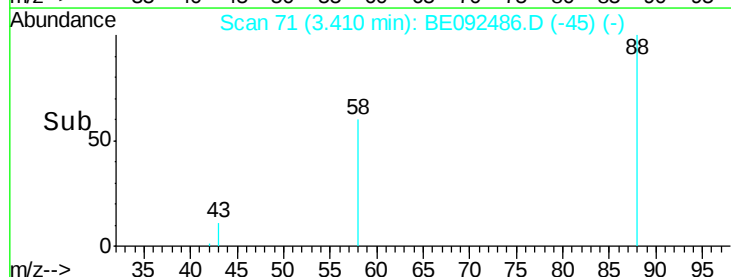
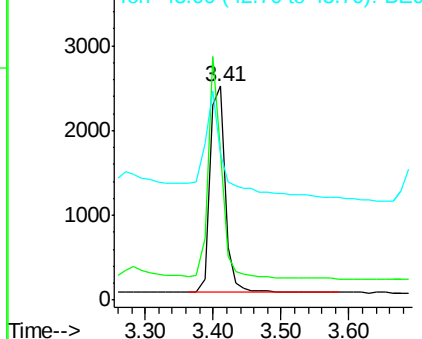


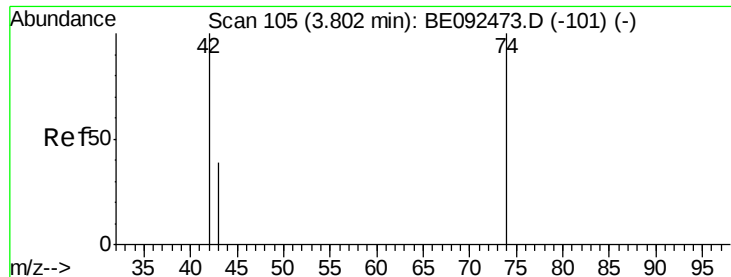
Abundance

Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.68 ng

RT: 3.75 min Scan# 100

Delta R.T. -0.06 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

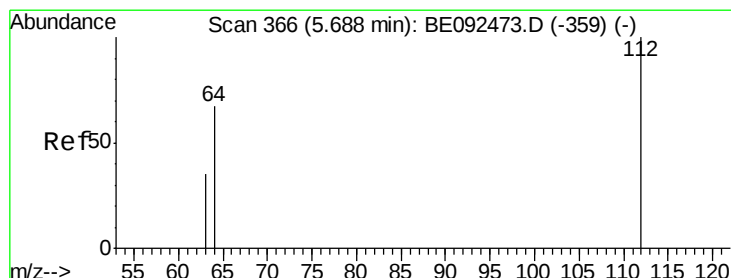
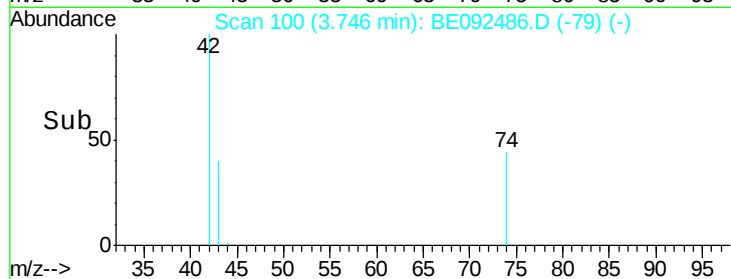
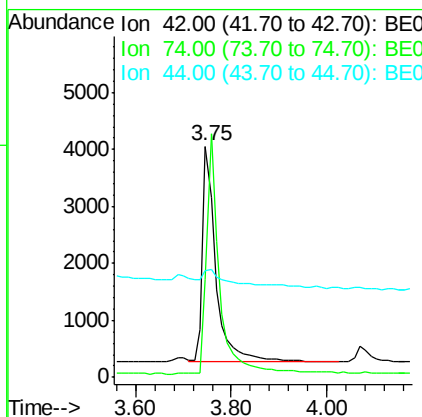
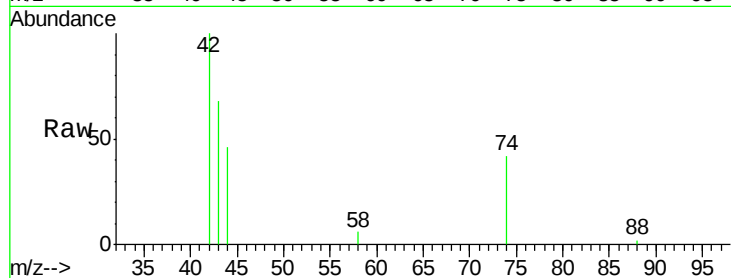
ClientSampleId :

WOOLSTON-TS-004MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 7470  |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 108.4 | 86.0  | 129.0 |
| 44        | 13.9  | 5.1   | 7.7#  |

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#4

2-Fluorophenol

Concen: 10.19 ng

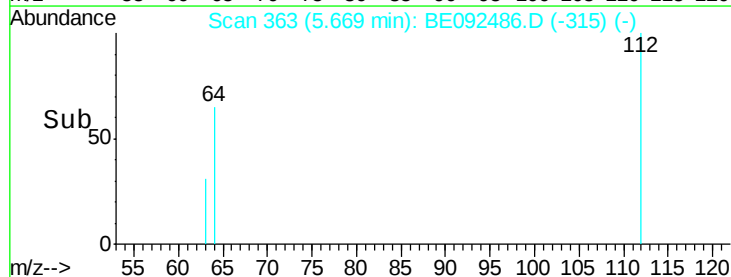
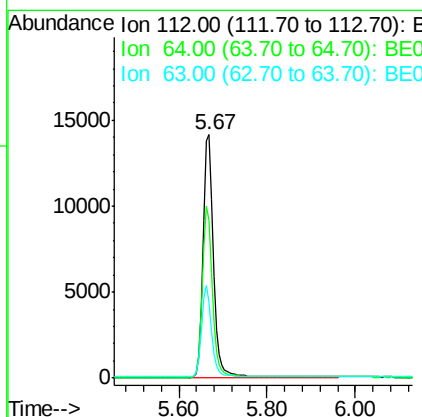
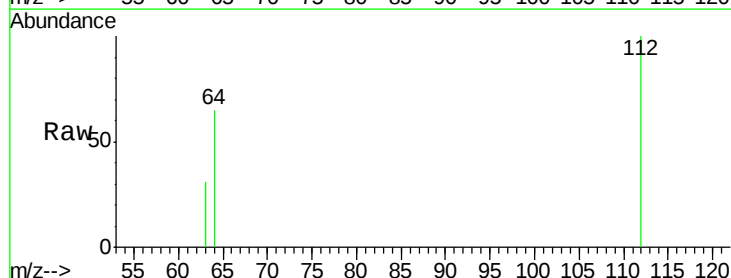
RT: 5.67 min Scan# 363

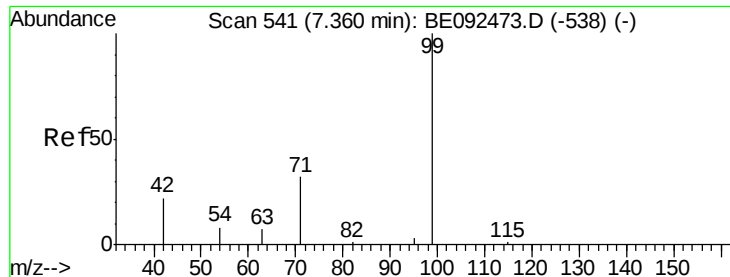
Delta R.T. -0.02 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 23262 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 69.0  | 53.5  | 80.3  |
| 63        | 36.3  | 27.9  | 41.9  |





#5

Phenol-d6

Concen: 9.69 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

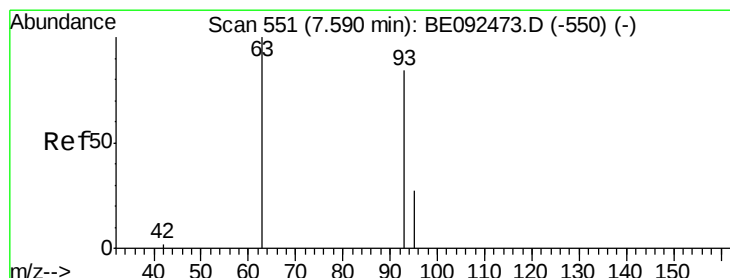
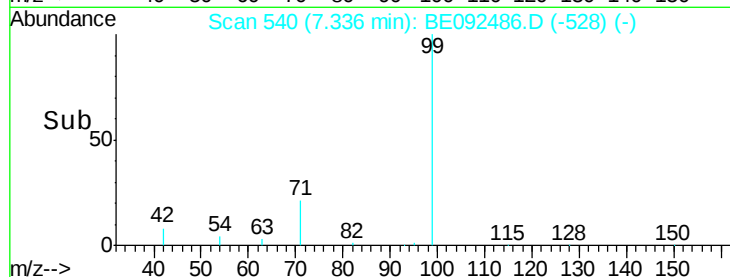
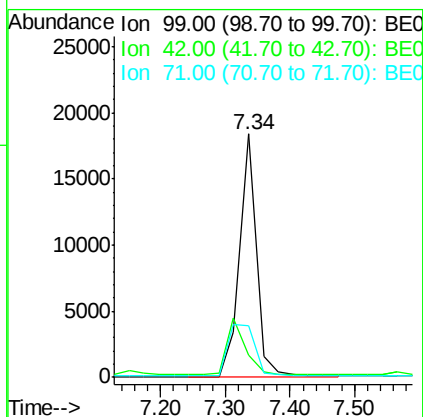
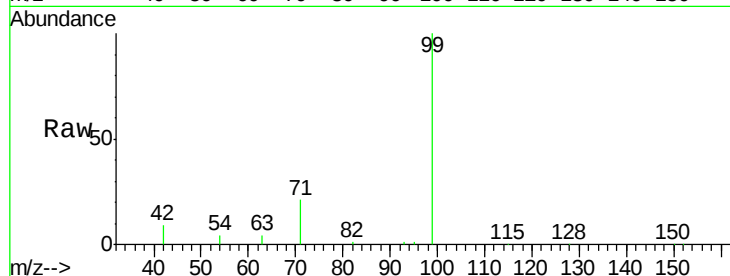
ClientSampleId :

WOOLSTON-TS-004MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 33264 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 0.0   | 16.0  | 24.0# |
| 71        | 0.0   | 30.6  | 45.8# |

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#6

bis(2-Chloroethyl)ether

Concen: 3.48 ng

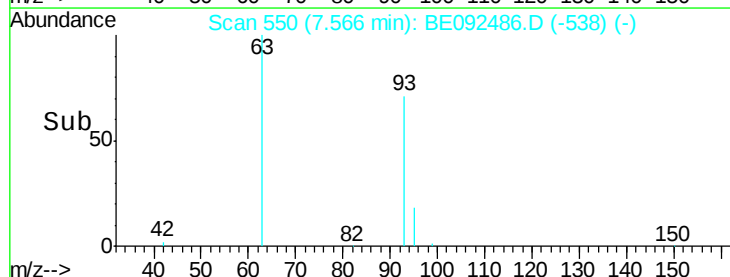
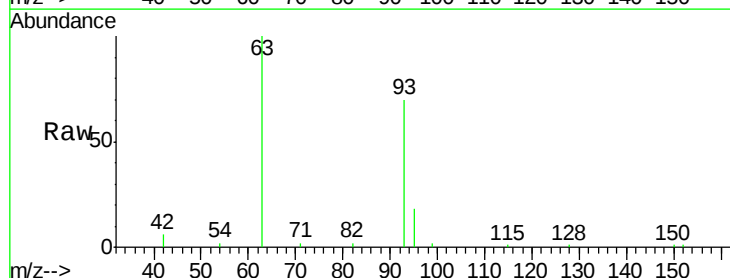
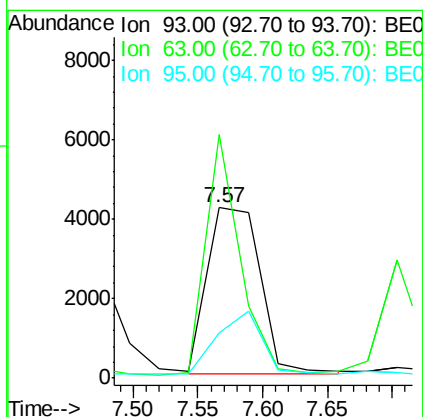
RT: 7.57 min Scan# 550

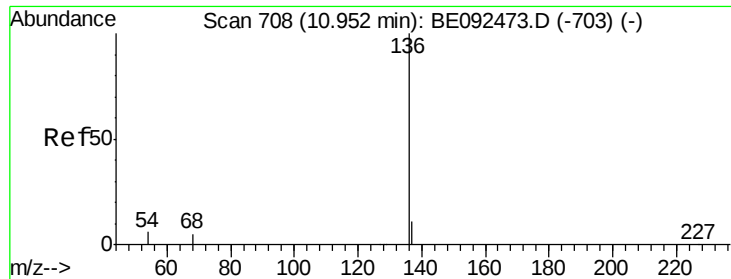
Delta R.T. -0.02 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 12011 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 92.8  | 71.6  | 107.4 |
| 95        | 0.0   | 24.0  | 36.0# |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. 0.00 min

Lab File: BE092486.D

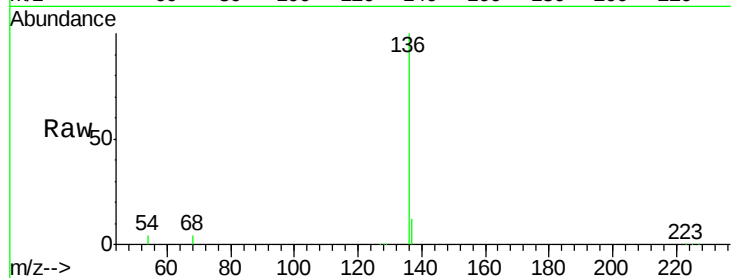
Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

ClientSampleId :

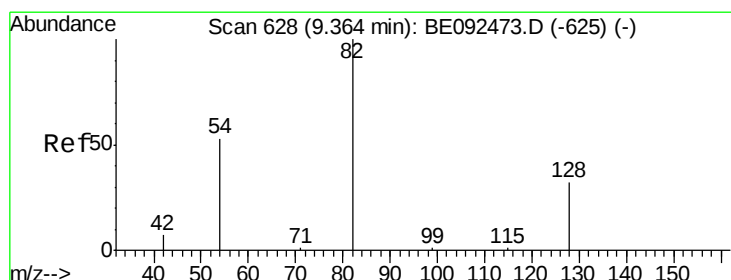
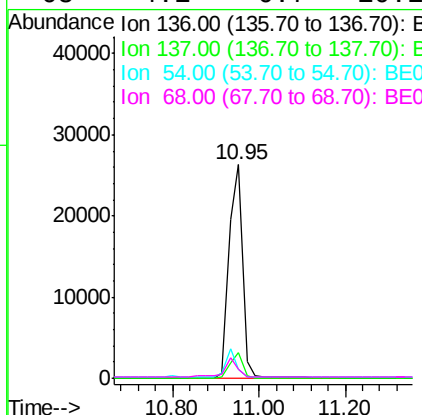
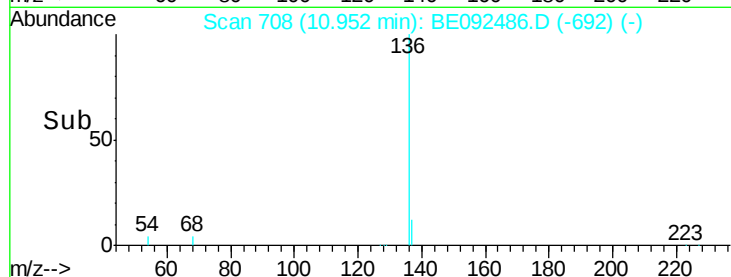
WOOLSTON-TS-004MS



| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 56613 |       |       |
| 137     | 11.9  | 8.2   | 12.4  |       |
| 54      | 4.4   | 9.6   | 14.4  | #     |
| 68      | 4.1   | 6.7   | 10.1  | #     |

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#8

Nitrobenzene-d5

Concen: 4.00 ng

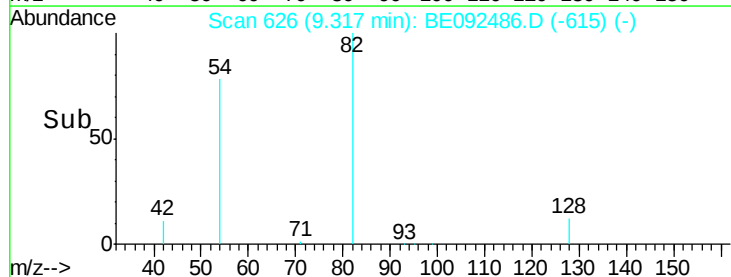
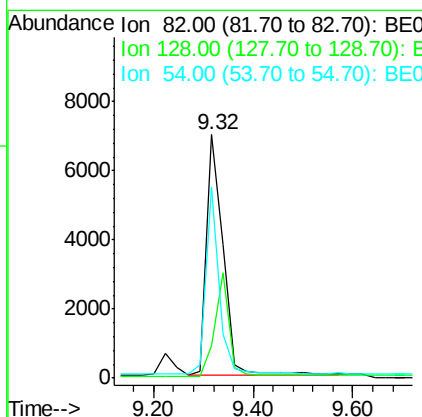
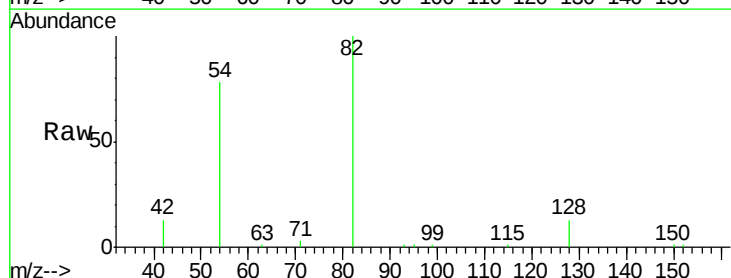
RT: 9.32 min Scan# 626

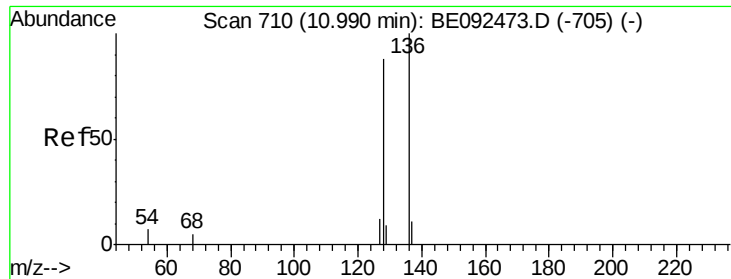
Delta R.T. -0.05 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 82      | 100   | 15988 |       |       |
| 128     | 13.2  | 39.0  | 58.4  | #     |
| 54      | 78.3  | 44.8  | 67.2  | #     |





#9

Naphthalene

Concen: 3.52 ng

RT: 10.99 min Scan# 710

Delta R.T. 0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

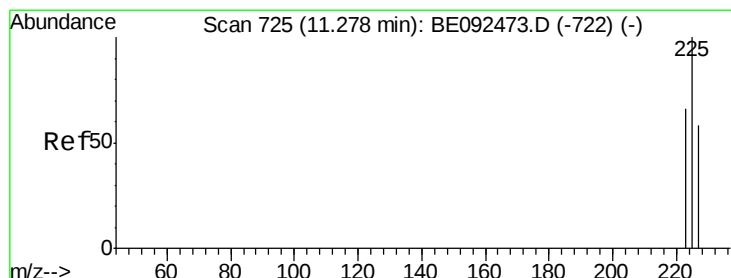
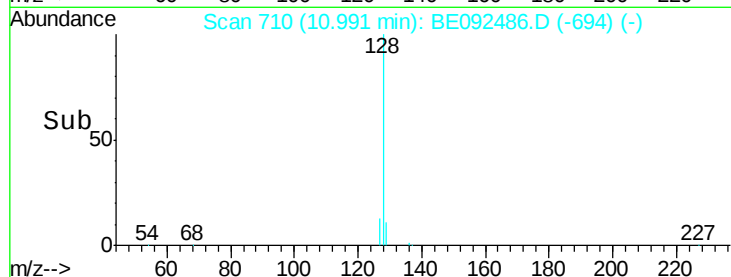
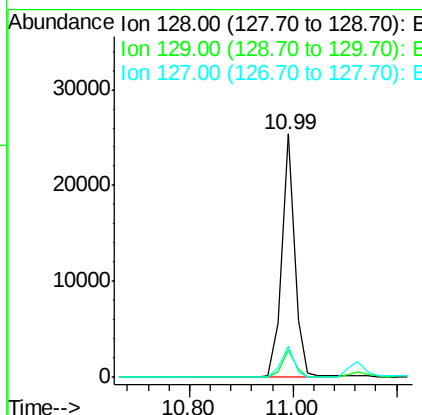
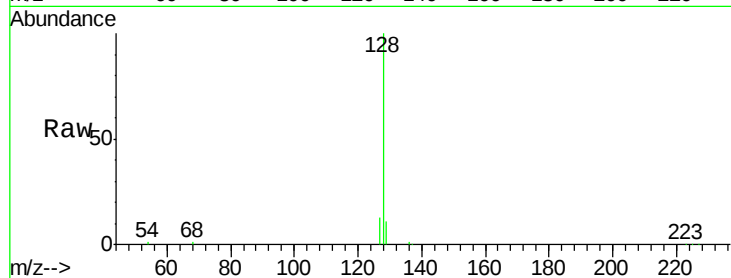
ClientSampleId :

WOOLSTON-TS-004MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 43091 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.1  | 11.2  | 16.8# |
| 127       | 12.9  | 11.6  | 17.4  |

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#10

Hexachlorobutadiene

Concen: 3.41 ng

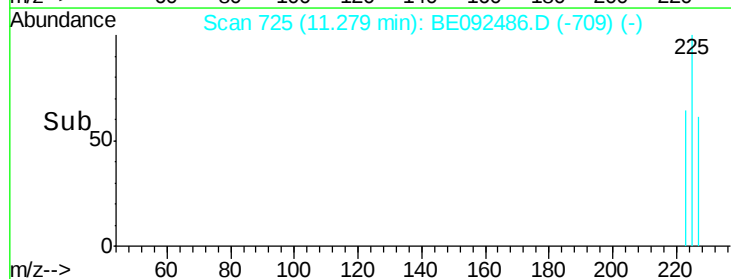
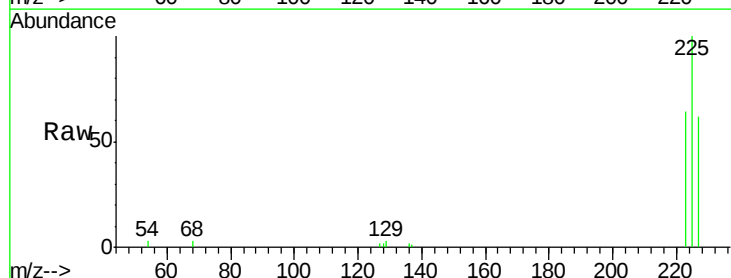
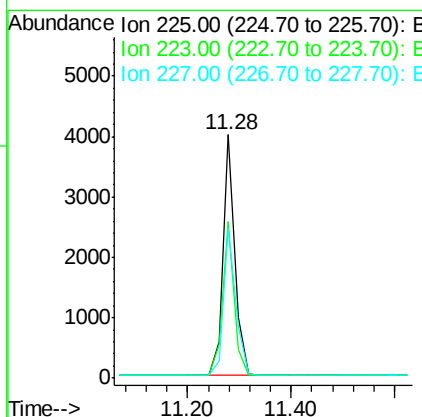
RT: 11.28 min Scan# 725

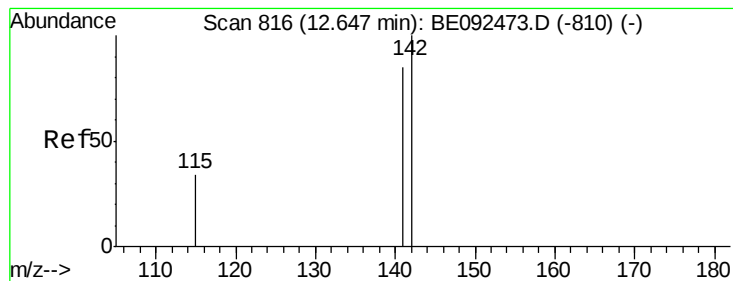
Delta R.T. 0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 6400 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 63.1  | 50.6  | 76.0 |
| 227       | 63.6  | 51.4  | 77.0 |





#11

2-Methylnaphthalene

Concen: 3.68 ng

RT: 12.61 min Scan# 813

Delta R.T. -0.03 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

ClientSampleId :

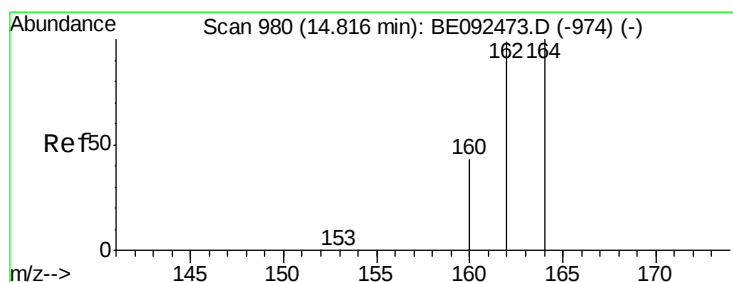
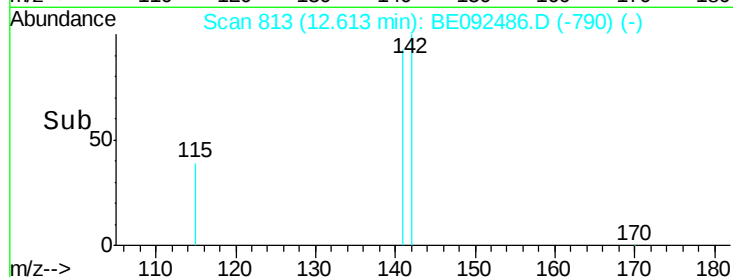
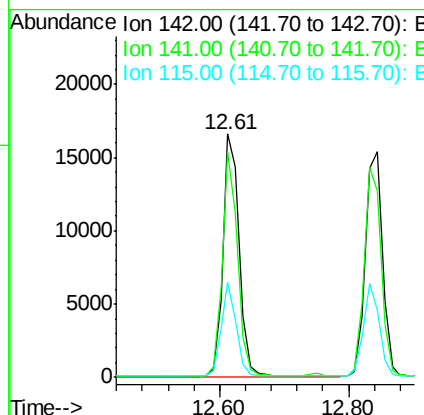
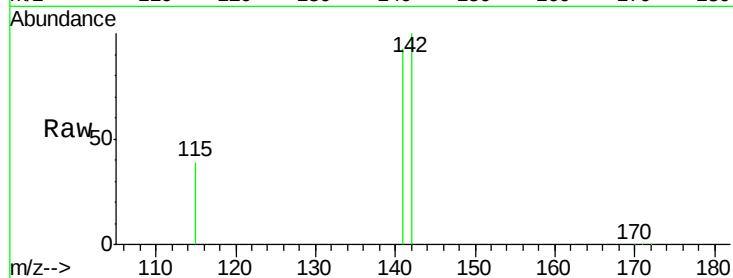
WOOLSTON-TS-004MS

Tgt Ion:142 Resp: 29076

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 92.7  | 73.7  | 110.5 |
| 115 | 39.2  | 34.0  | 51.0  |

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.81 min Scan# 979

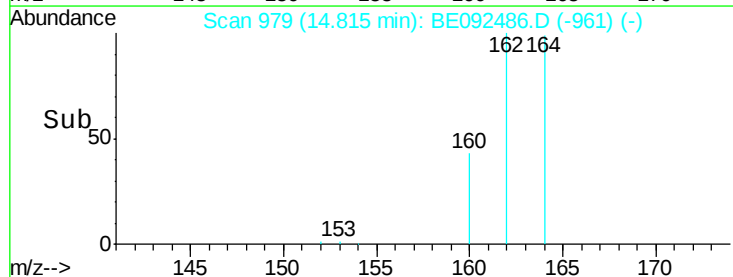
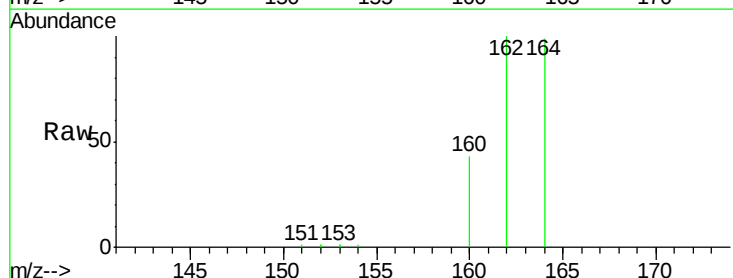
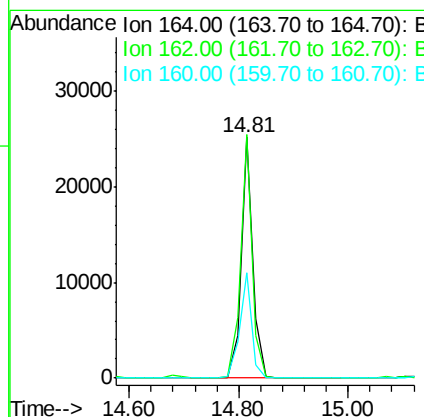
Delta R.T. -0.00 min

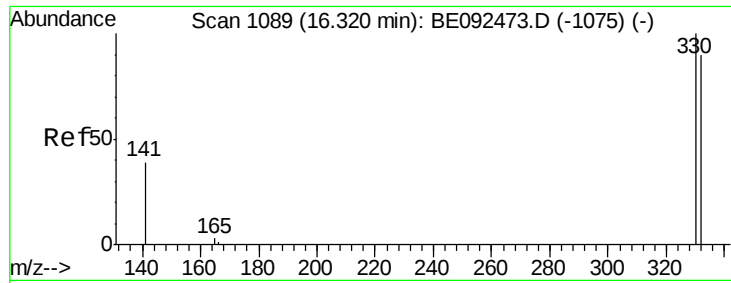
Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Tgt Ion:164 Resp: 36665

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.2 | 71.4  | 107.0 |
| 160 | 43.8  | 27.4  | 41.2  |





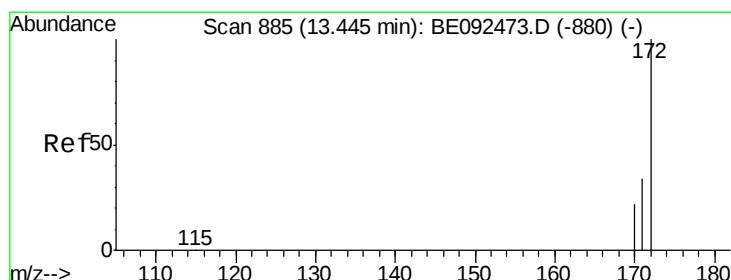
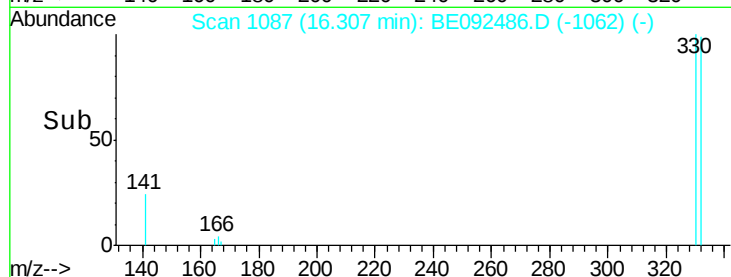
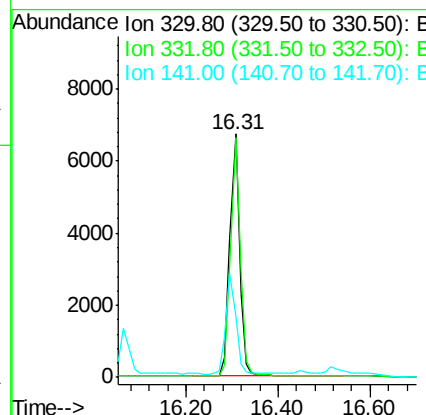
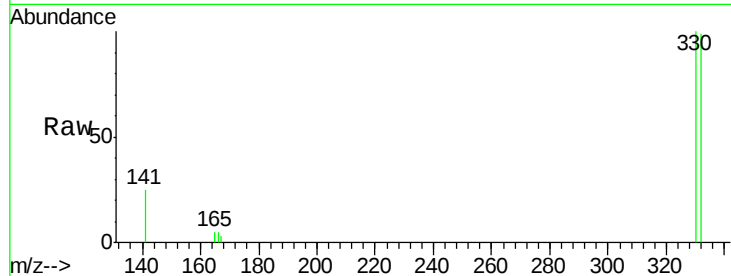
#13  
 2,4,6-Tribromophenol  
 Concen: 9.72 ng  
 RT: 16.31 min Scan# 1087  
 Delta R.T. -0.01 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 75.4  | 113.0 |
| 141     | 42.4  | 31.0  | 46.6  |

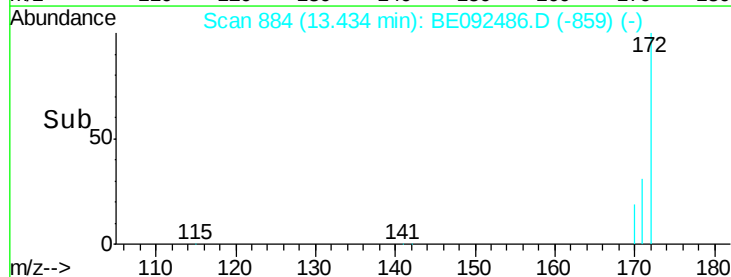
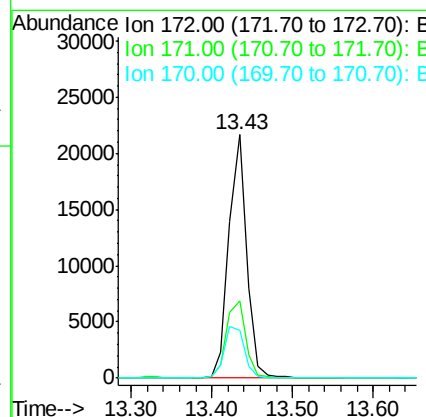
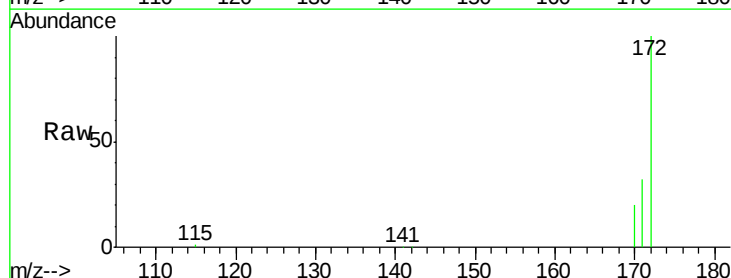
Manual Integrations  
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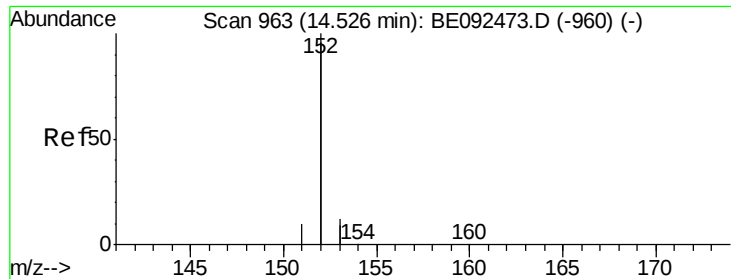
umangi  
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#14  
 2-Fluorobiphenyl  
 Concen: 3.67 ng  
 RT: 13.43 min Scan# 884  
 Delta R.T. -0.01 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.6  | 30.1  | 45.1  |
| 170     | 19.6  | 21.8  | 32.6# |





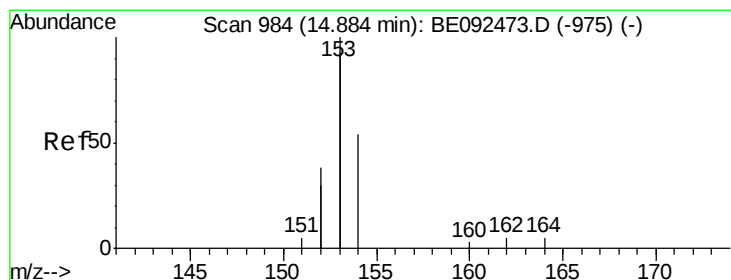
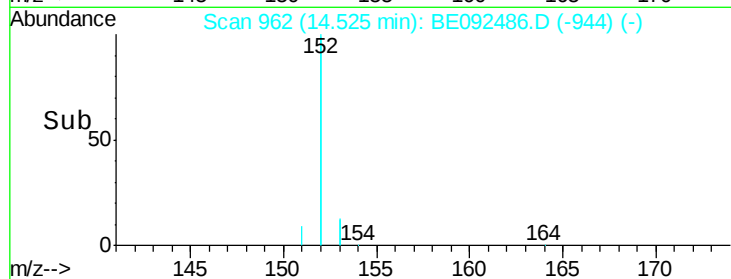
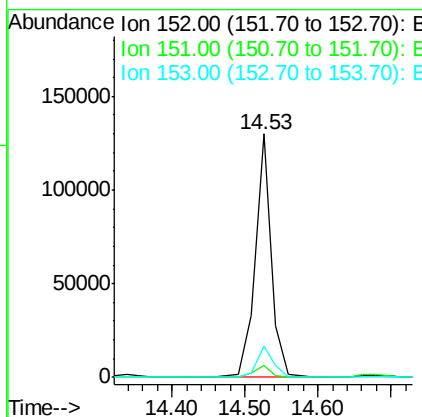
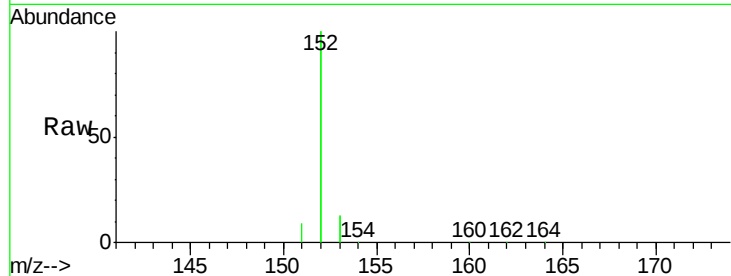
#15  
Acenaphthylene  
Concen: 3.75 ng  
RT: 14.53 min Scan# 962  
Delta R.T. -0.00 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

Instrument :  
BNA\_E  
ClientSampleId :  
WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 196455 |       |       |
| 151     | 4.9   |        | 3.9   | 5.9   |
| 153     | 13.1  |        | 10.4  | 15.6  |

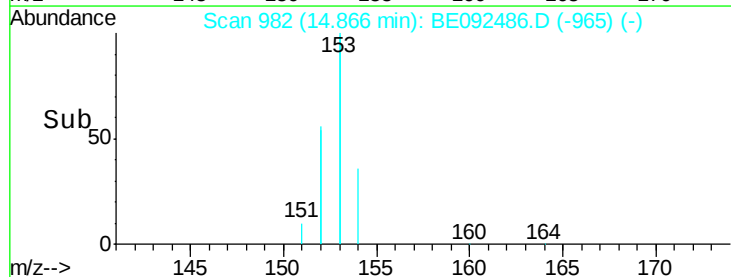
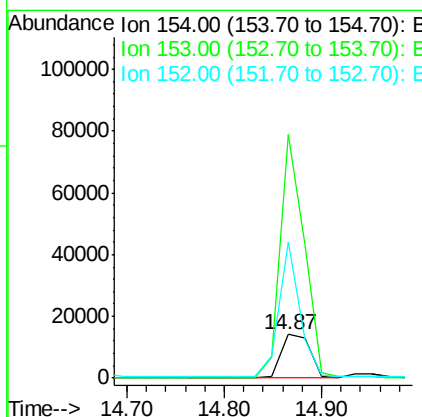
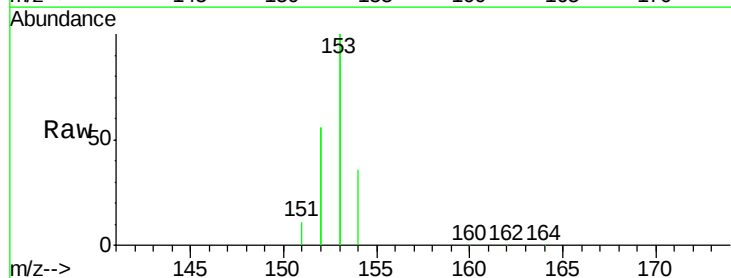
Manual Integrations  
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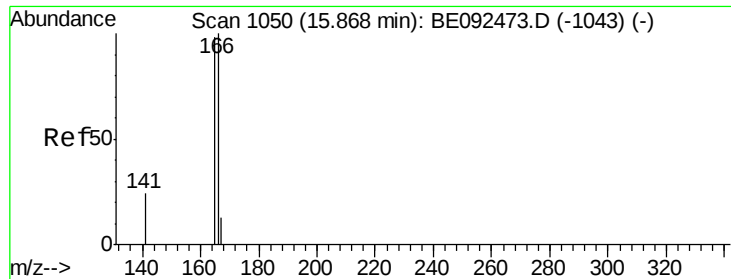
umangi  
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#16  
Acenaphthene  
Concen: 3.50 ng  
RT: 14.87 min Scan# 982  
Delta R.T. -0.02 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 29295 |       |       |
| 153     | 453.4 |       | 350.8 | 526.2 |
| 152     | 223.6 |       | 171.1 | 256.7 |





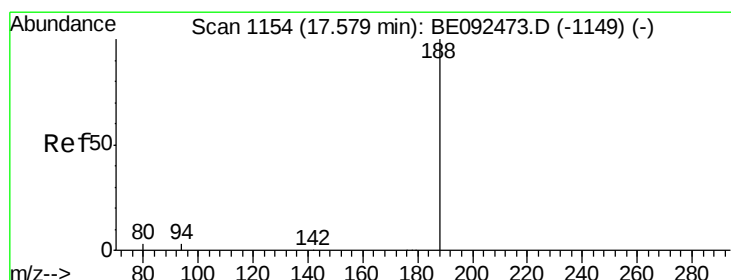
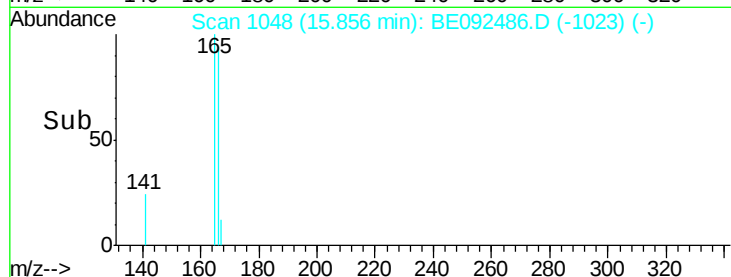
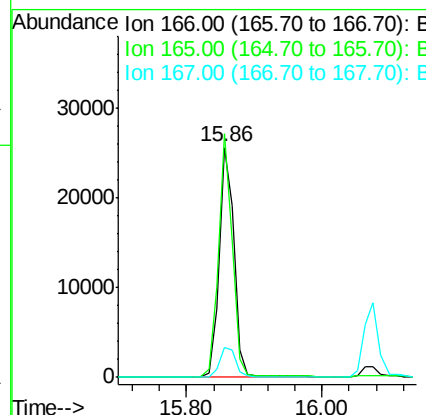
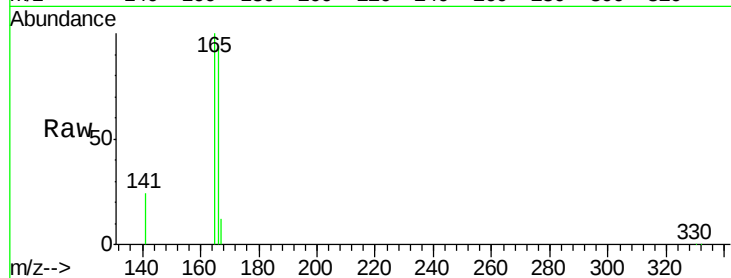
#17  
**Fluorene**  
 Concen: 3.92 ng  
 RT: 15.86 min Scan# 1048  
 Delta R.T. -0.01 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.5  | 78.2  | 117.4 |
| 167     | 13.4  | 11.0  | 16.4  |

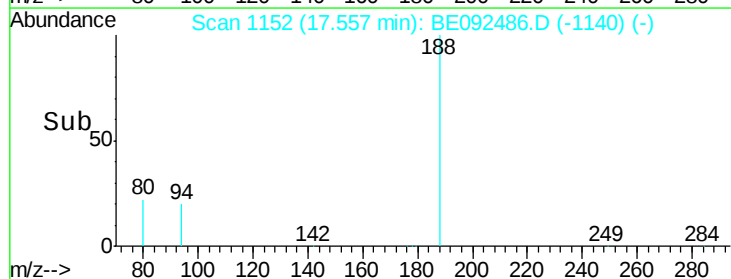
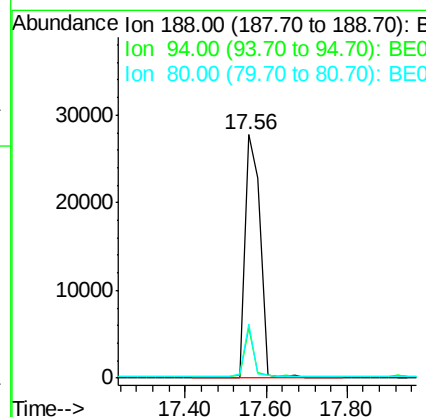
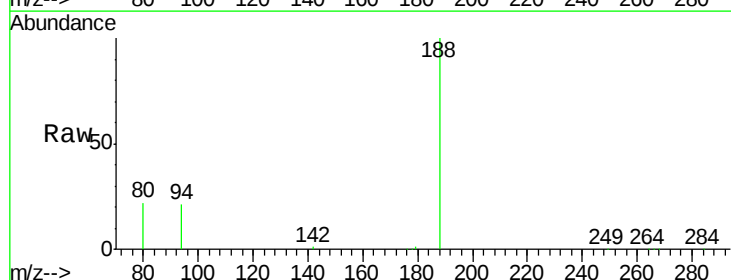
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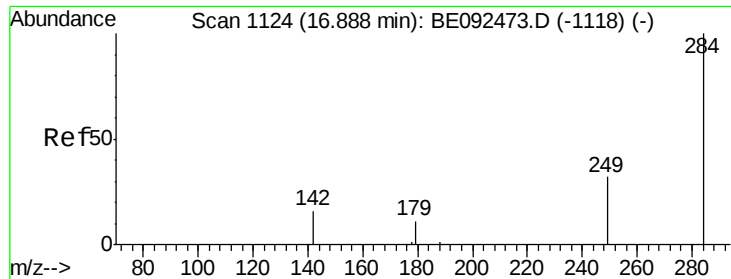
umangi  
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#18  
**Phenanthrene-d10**  
 Concen: 5.00 ng  
 RT: 17.56 min Scan# 1152  
 Delta R.T. -0.02 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 20.5  | 3.2   | 4.8#  |
| 80      | 22.4  | 2.6   | 3.8#  |





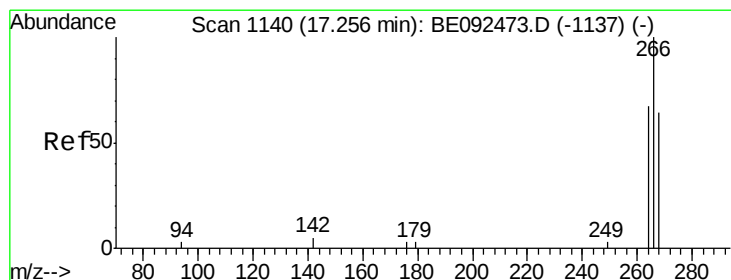
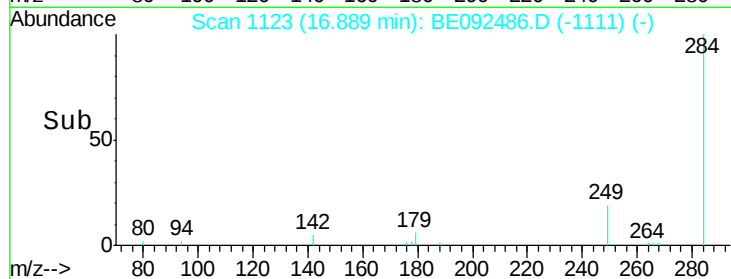
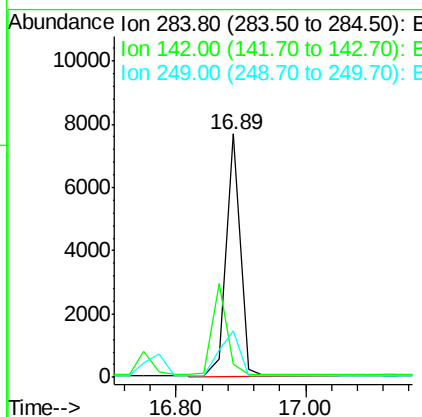
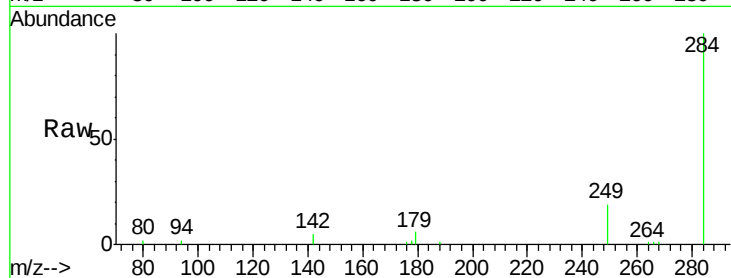
#19  
Hexachlorobenzene  
Concen: 3.71 ng  
RT: 16.89 min Scan# 1123  
Delta R.T. 0.00 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

Instrument :  
BNA\_E  
ClientSampleId :  
WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 0.0   | 29.1  | 43.7# |
| 249     | 26.7  | 27.9  | 41.9# |

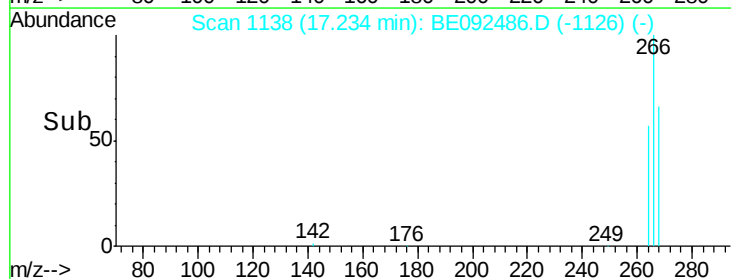
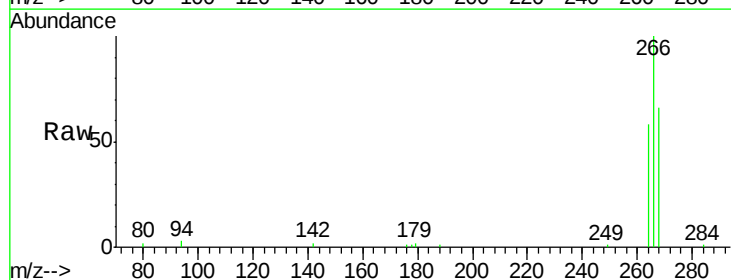
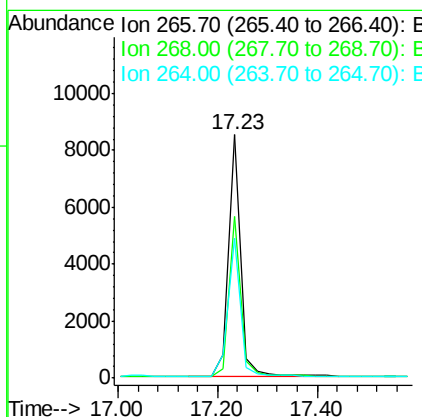
Manual Integrations  
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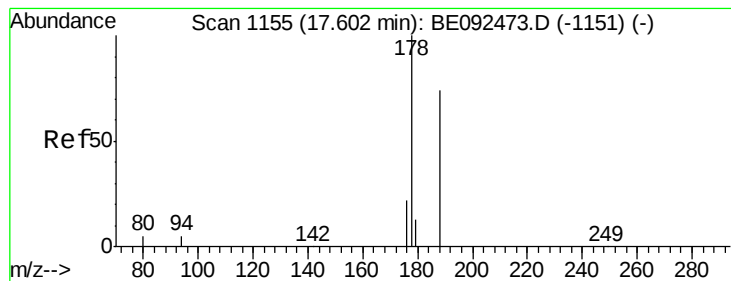
umangi  
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#20  
Pentachlorophenol  
Concen: 16.43 ng  
RT: 17.23 min Scan# 1138  
Delta R.T. -0.02 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 66.4  | 62.5  | 93.7  |
| 264     | 57.7  | 57.2  | 85.8  |





#21

Phenanthrene

Concen: 3.82 ng

RT: 17.60 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

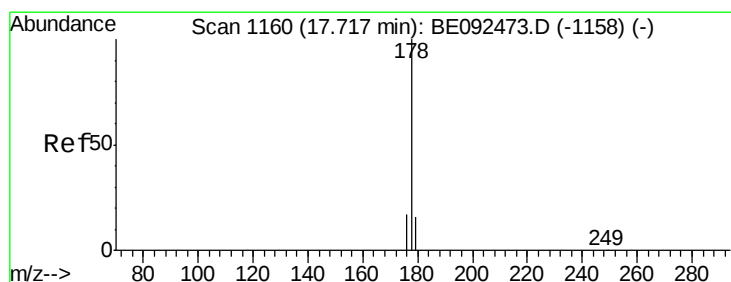
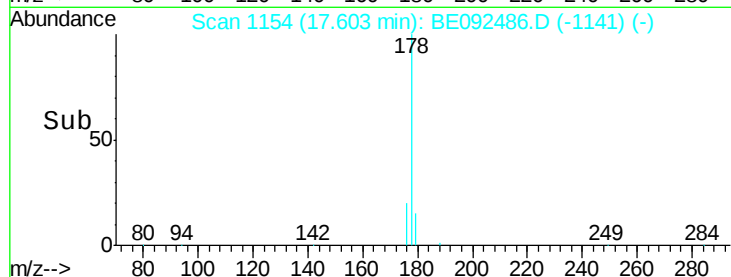
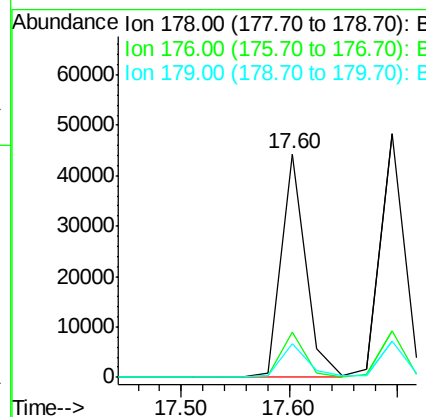
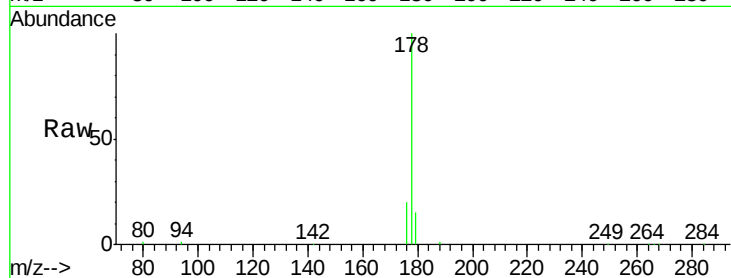
ClientSampleId :

WOOLSTON-TS-004MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 70061 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.8  | 15.8  | 23.8  |
| 179       | 15.6  | 16.0  | 24.0# |

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#22

Anthracene

Concen: 4.51 ng

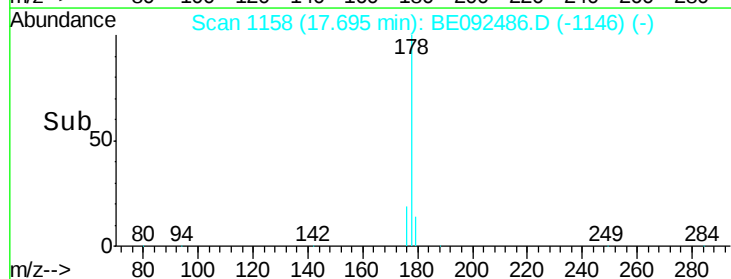
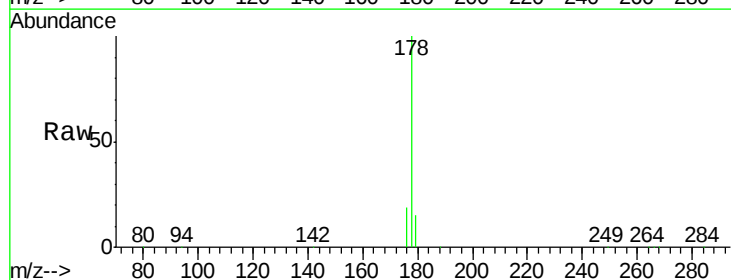
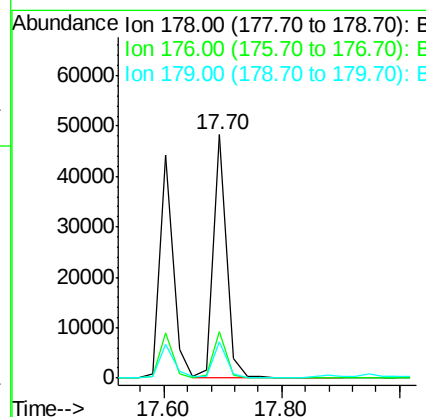
RT: 17.70 min Scan# 1158

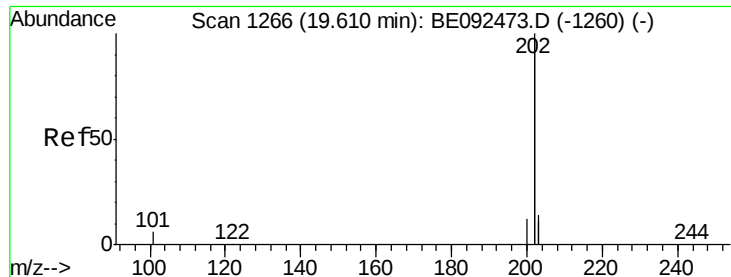
Delta R.T. -0.02 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 74498 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.9  | 15.0  | 22.4  |
| 179       | 14.9  | 12.2  | 18.2  |





#23

Fluoranthene

Concen: 4.29 ng

RT: 19.61 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

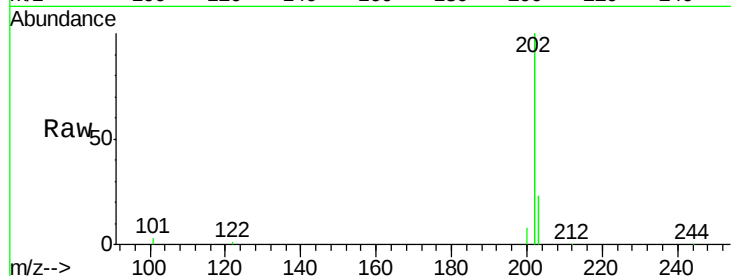
ClientSampleId :

WOOLSTON-TS-004MS

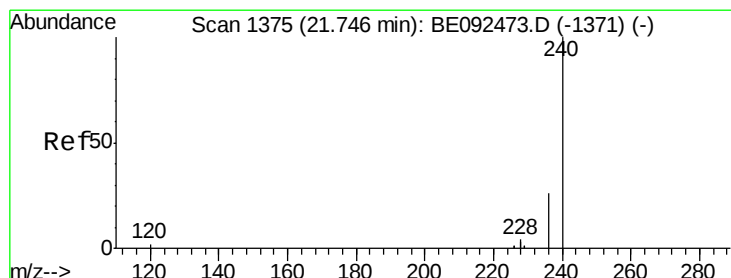
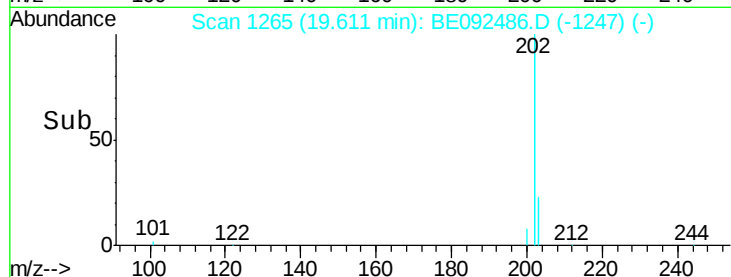
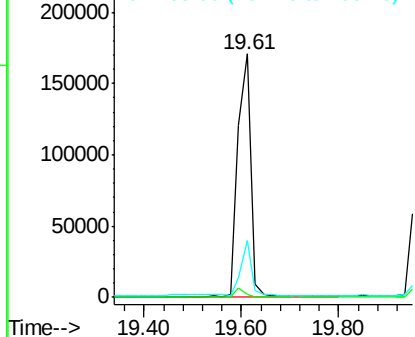
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 312685 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 3.0   | 2.2   | 3.4    |
| 203       | 18.2  | 13.7  | 20.5   |

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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



#24

Chrysene-d12

Concen: 5.00 ng

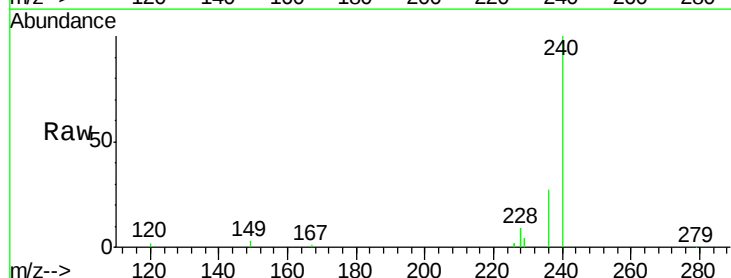
RT: 21.75 min Scan# 1374

Delta R.T. 0.00 min

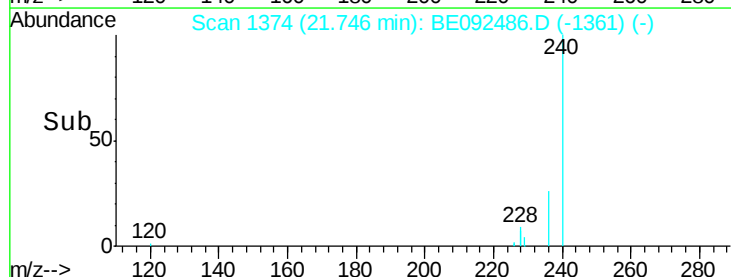
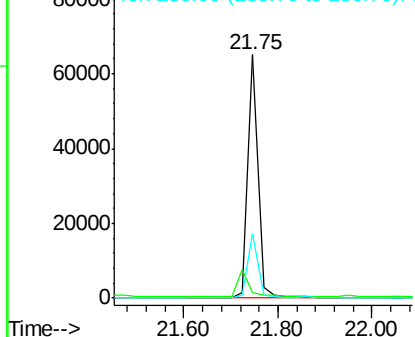
Lab File: BE092486.D

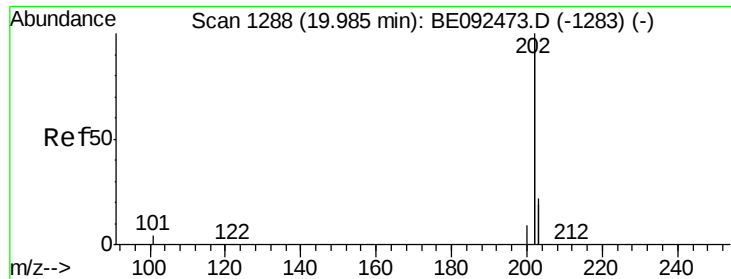
Acq: 31 Oct 2016 19:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 95916 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 2.1   | 2.6   | 4.0#  |
| 236       | 26.6  | 24.6  | 37.0  |



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





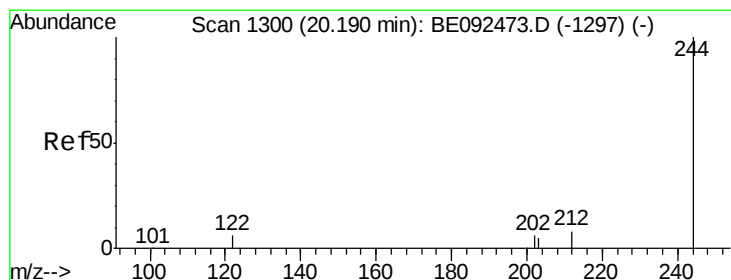
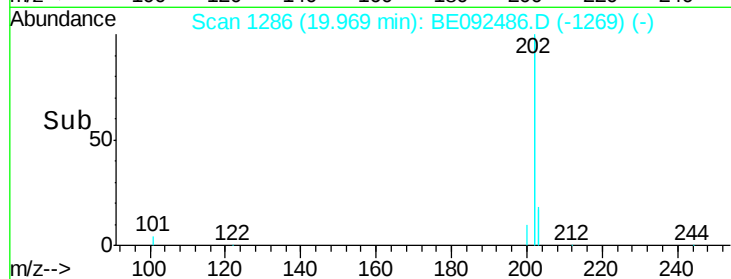
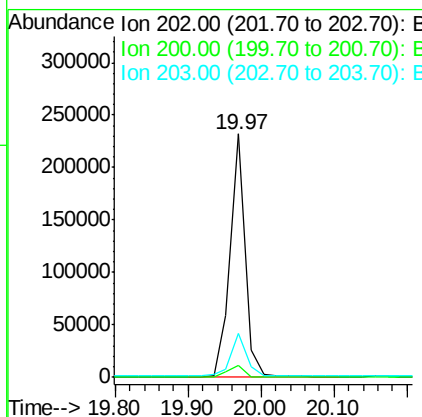
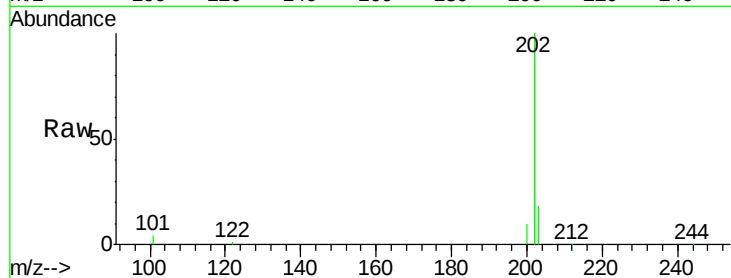
#25  
 Pyrene  
 Concen: 3.90 ng  
 RT: 19.97 min Scan# 1286  
 Delta R.T. -0.02 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 WOOLSTON-TS-004MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 326339 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 5.3   | 4.2   | 6.4    |
| 203       | 18.2  | 13.9  | 20.9   |

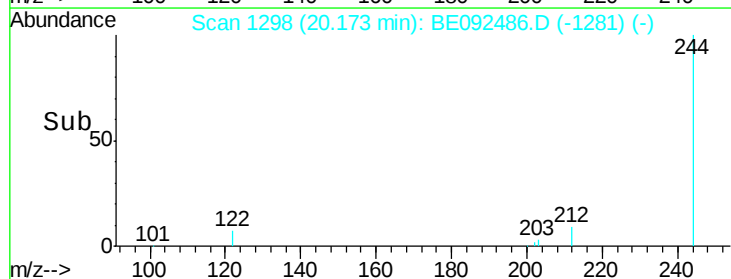
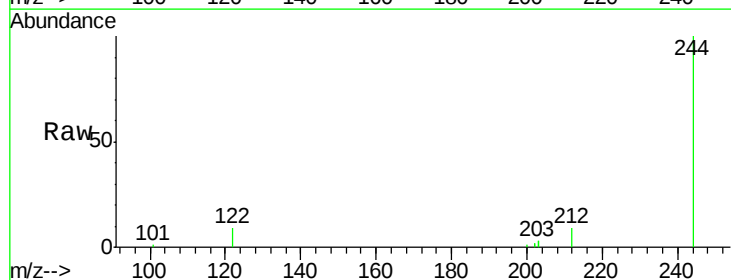
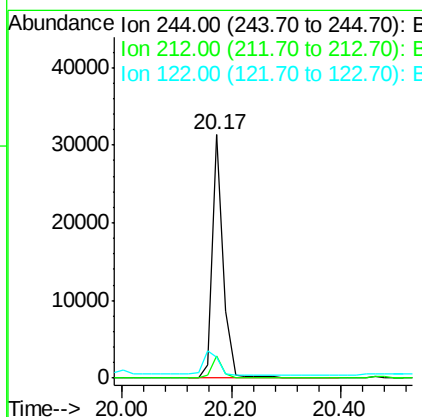
Manual Integrations  
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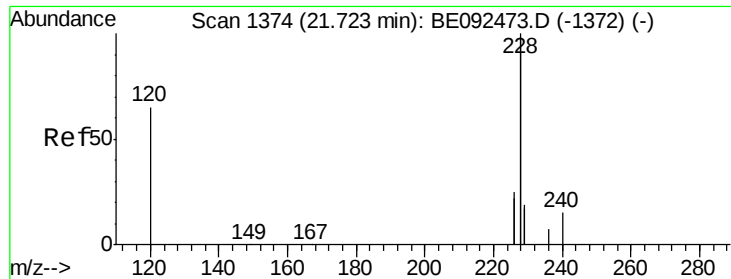
umangi  
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#26  
 Terphenyl-d14  
 Concen: 3.64 ng  
 RT: 20.17 min Scan# 1298  
 Delta R.T. -0.02 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 43167 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 9.1   | 6.7   | 10.1  |
| 122       | 8.6   | 3.6   | 5.4#  |





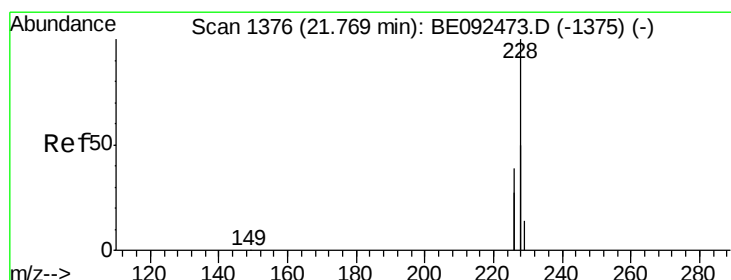
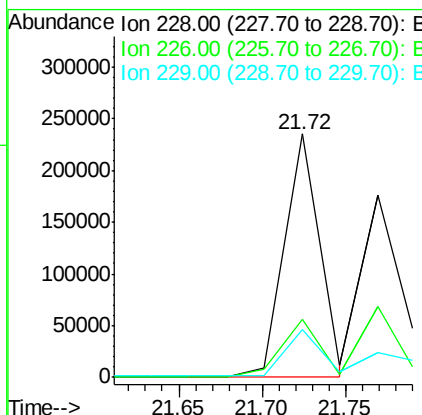
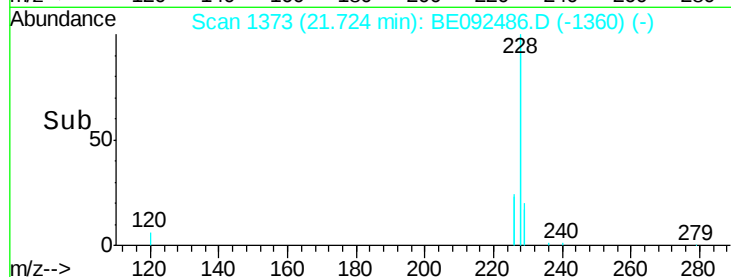
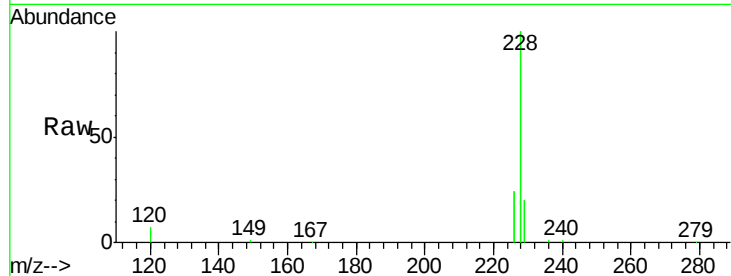
#27  
Benzo(a)anthracene  
Concen: 3.93 ng m  
RT: 21.72 min Scan# 1373  
Delta R.T. 0.00 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

Instrument :  
BNA\_E  
ClientSampleId :  
WOOLSTON-TS-004MS

Tgt Ion:228 Resp: 349004  
Ion Ratio Lower Upper  
228 100  
226 24.0 23.6 35.4  
229 19.7 13.3 19.9

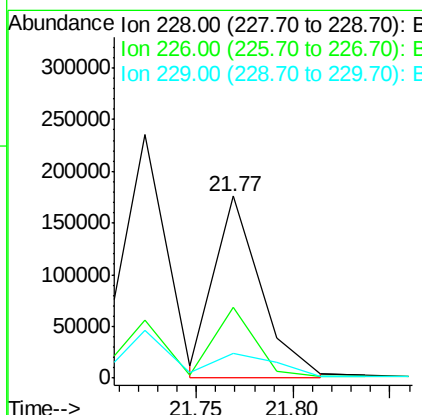
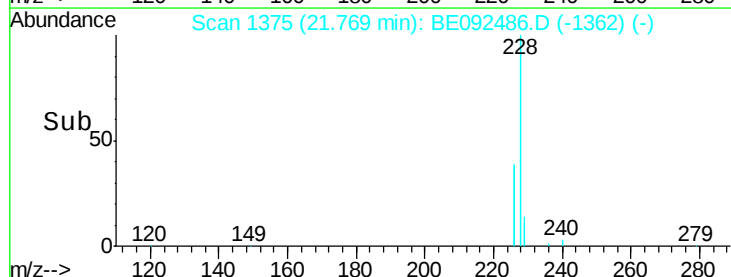
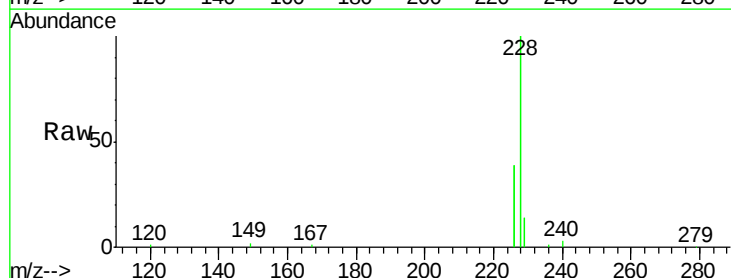
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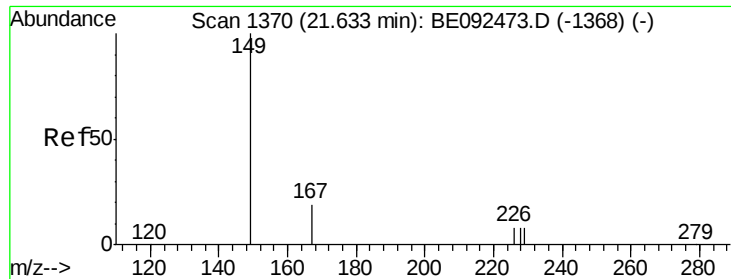
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#28  
Chrysene  
Concen: 3.18 ng m  
RT: 21.77 min Scan# 1375  
Delta R.T. 0.00 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

Tgt Ion:228 Resp: 296486  
Ion Ratio Lower Upper  
228 100  
226 39.0 36.3 54.5  
229 13.8 10.6 16.0





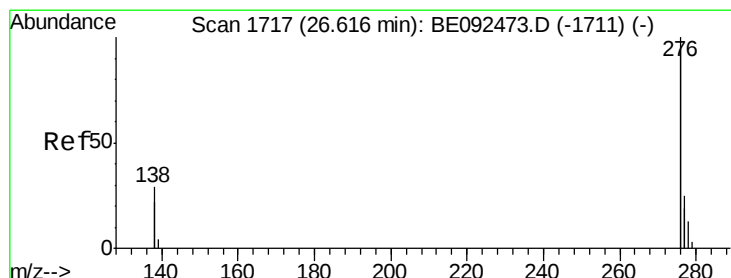
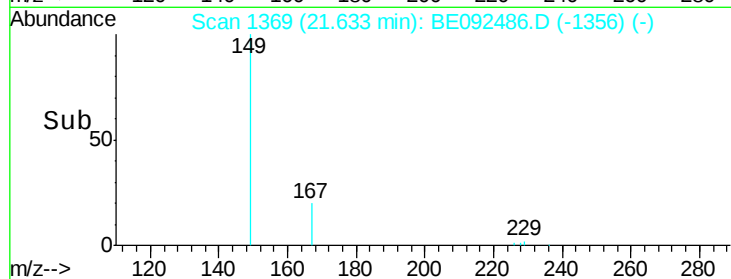
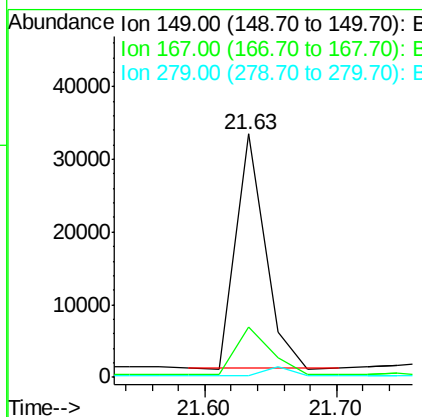
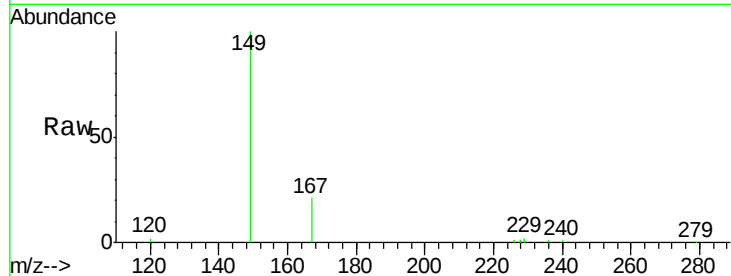
#29  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.76 ng  
 RT: 21.63 min Scan# 1369  
 Delta R.T. 0.00 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 149     | 100   |            |            |
| 167     | 24.1  | 16.0       | 24.0#      |
| 279     | 0.0   | 16.0       | 24.0#      |

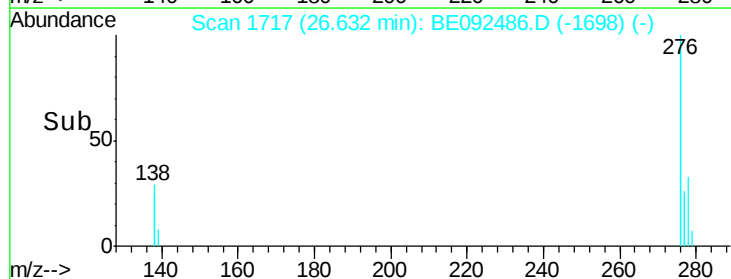
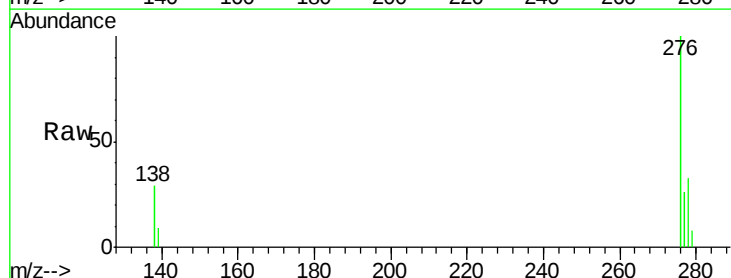
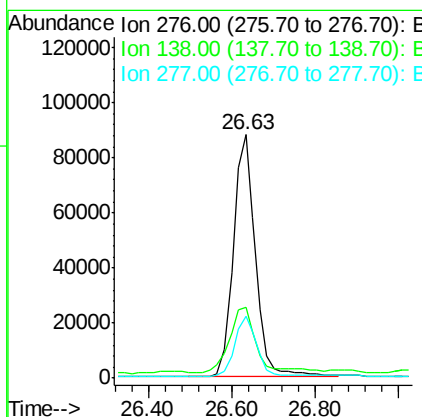
Manual Integrations  
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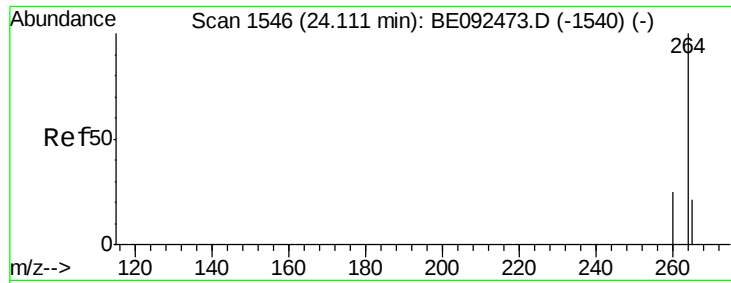
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#30  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.94 ng  
 RT: 26.63 min Scan# 1717  
 Delta R.T. 0.02 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 33.1  | 20.3       | 30.5#      |
| 277     | 24.6  | 19.7       | 29.5       |





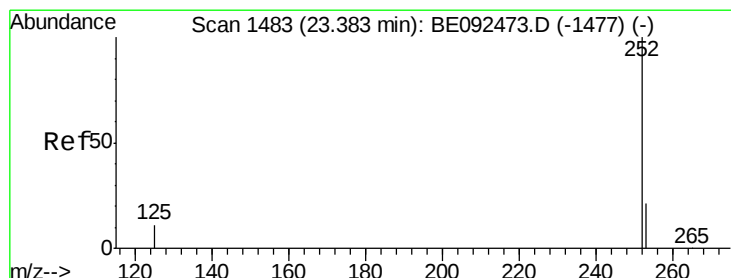
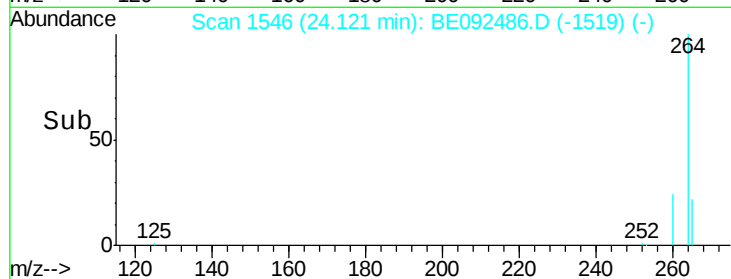
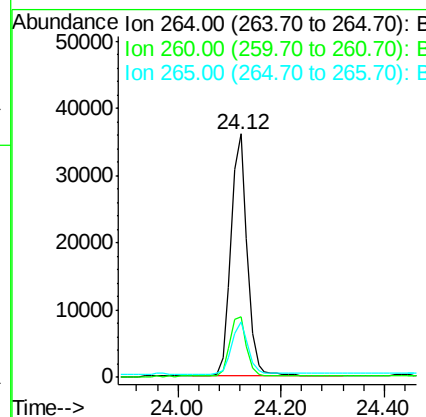
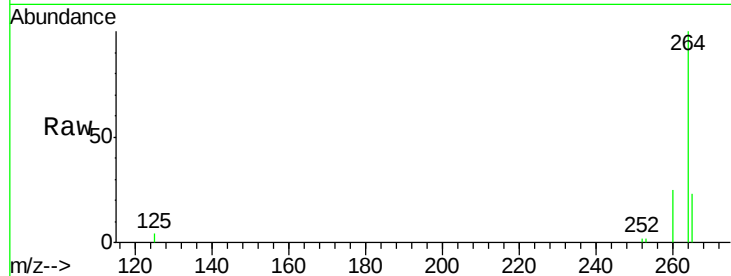
#31  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.12 min Scan# 1546  
 Delta R.T. 0.01 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 20.1  | 30.1  |
| 265     | 23.0  | 17.9  | 26.9  |

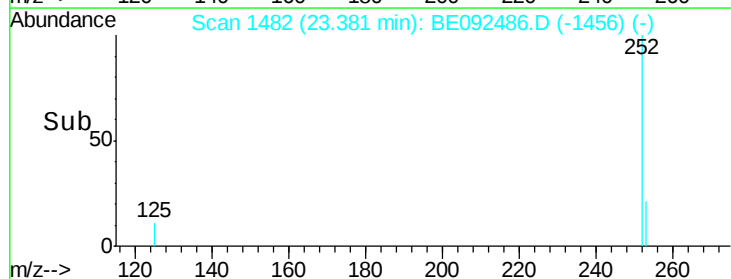
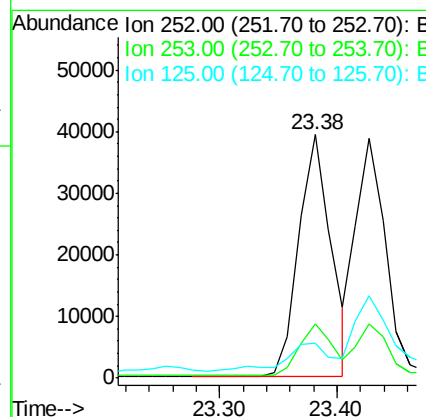
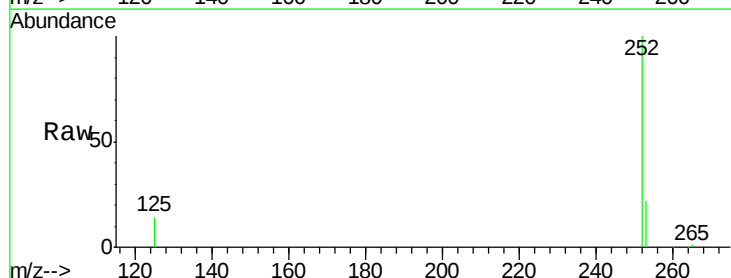
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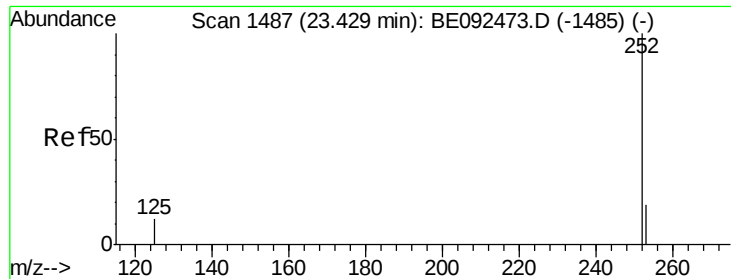
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#32  
 Benzo(b)fluoranthene  
 Concen: 3.77 ng  
 RT: 23.38 min Scan# 1482  
 Delta R.T. -0.00 min  
 Lab File: BE092486.D  
 Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.7  | 28.1  |
| 125     | 14.4  | 10.5  | 15.7  |





#33

Benzo(k)fluoranthene

Concen: 3.52 ng m

RT: 23.43 min Scan# 1486

Delta R.T. -0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

Instrument :

BNA\_E

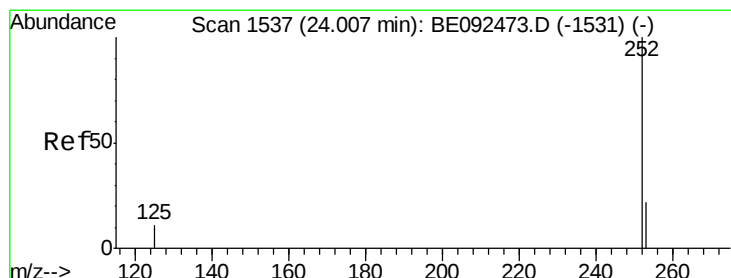
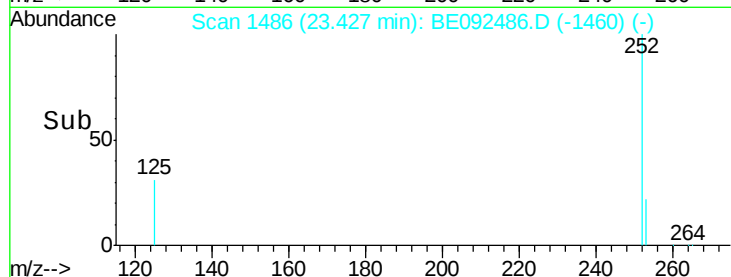
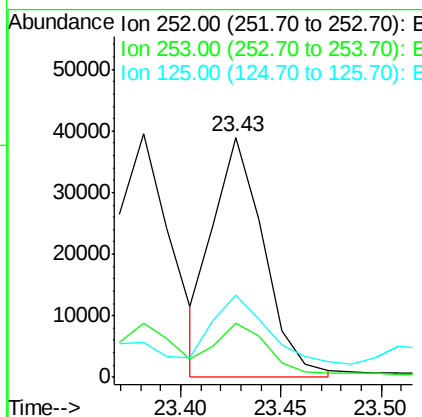
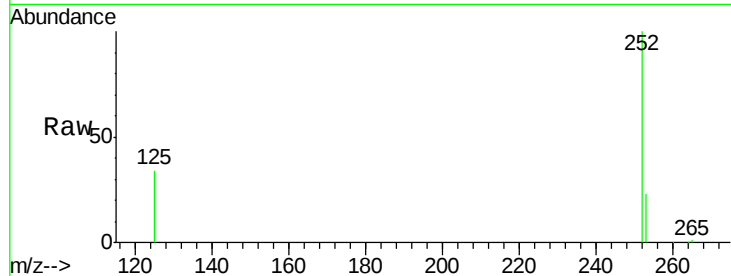
ClientSampleId :

WOOLSTON-TS-004MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 69397 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 20.3  | 30.5  |
| 125       | 34.1  | 9.6   | 14.4# |

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#34

Benzo(a)pyrene

Concen: 4.06 ng

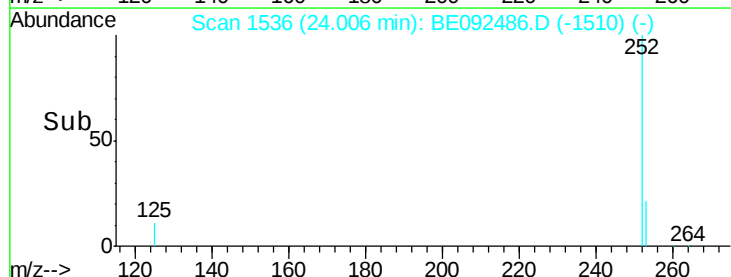
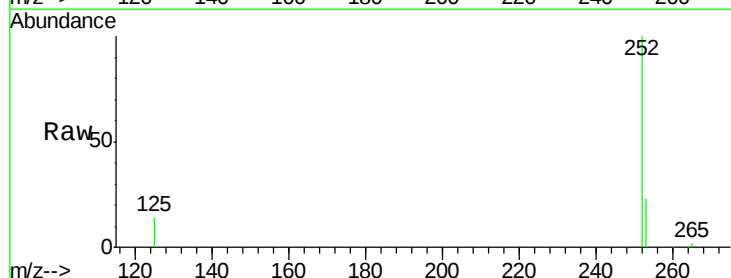
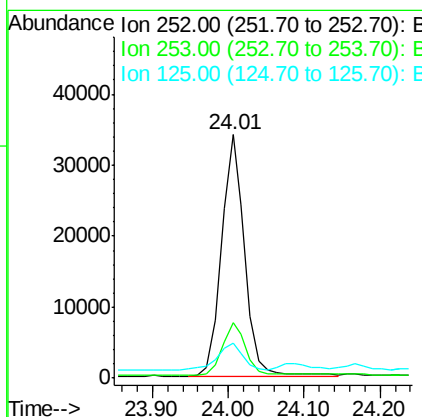
RT: 24.01 min Scan# 1536

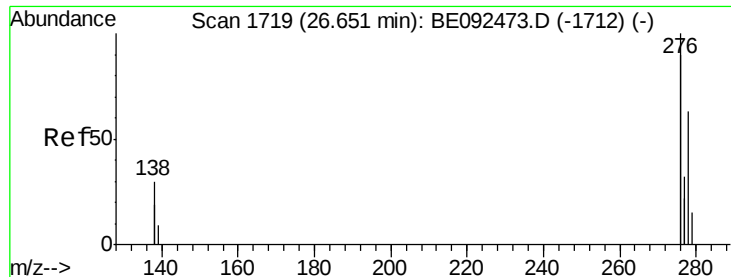
Delta R.T. -0.00 min

Lab File: BE092486.D

Acq: 31 Oct 2016 19:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 72986 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.6  | 19.0  | 28.6  |
| 125       | 14.3  | 11.8  | 17.8  |





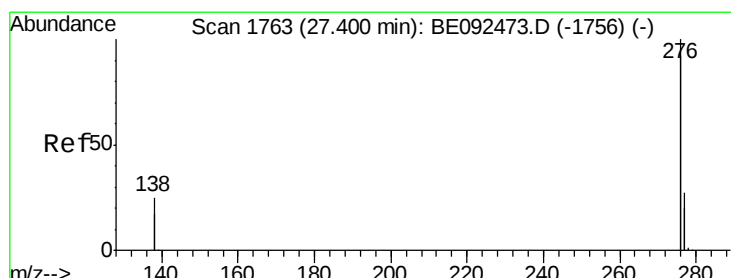
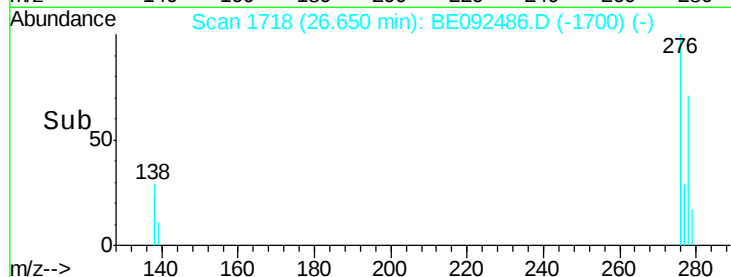
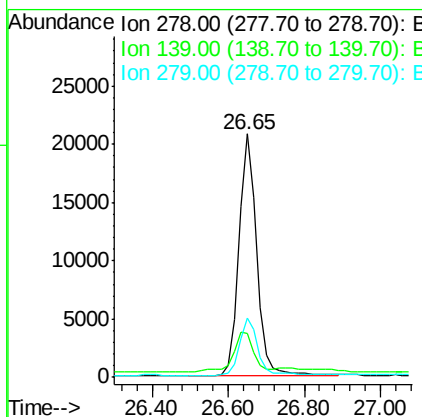
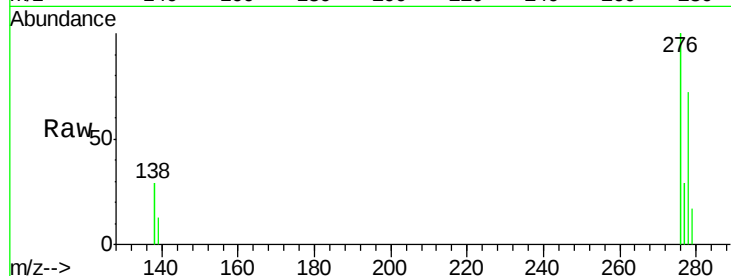
#35  
Dibenzo(a,h)anthracene  
Concen: 4.09 ng  
RT: 26.65 min Scan# 1718  
Delta R.T. -0.00 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

Instrument :  
BNA\_E  
ClientSampleId :  
WOOLSTON-TS-004MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.8  | 13.8  | 20.8  |
| 279     | 24.4  | 21.4  | 32.2  |

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#36  
Benzo(g,h,i)perylene  
Concen: 3.78 ng  
RT: 27.42 min Scan# 1763  
Delta R.T. 0.02 min  
Lab File: BE092486.D  
Acq: 31 Oct 2016 19:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.3  | 19.8  | 29.8  |
| 138     | 23.8  | 19.8  | 29.6  |

