

Data Path : Z:\HPCHEM1\BNA E\DATA\BE041816\  
 Data File : BE091677.D  
 Acq On : 18 Apr 2016 23:32  
 Operator : UM/SJ  
 Sample : H2563-06MSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 BCR08MSD

Manual Integrations  
 APPROVED

Sohil  
 4/19/2016 6:42:12 PM

Quant Time: Apr 19 05:41:20 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE041816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 18 17:20:40 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 36730    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.57 | 136  | 181227   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.42 | 164  | 110242   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.15 | 188  | 260496   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.31 | 240  | 318741   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.75 | 264  | 302768   | 5.00 | ng    | -0.01    |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 4) 2-Fluorophenol           | 5.39  | 112 | 18436  | 2.31  | ng | -0.02 |
| 5) Phenol-d6                | 6.97  | 99  | 16031  | 1.49  | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.96  | 82  | 37498  | 4.03  | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330 | 34881  | 10.86 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.05 | 172 | 114640 | 3.73  | ng | 0.00  |
| 29) Terphenyl-d14           | 19.76 | 244 | 238936 | 5.50  | ng | 0.00  |

|                                |       |     |         |      |    |        |
|--------------------------------|-------|-----|---------|------|----|--------|
| Target Compounds               |       |     |         |      |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.35  | 88  | 4658    | 1.09 | ng | # 90   |
| 3) n-Nitrosodimethylamine      | 3.65  | 42  | 6804    | 1.29 | ng | 93     |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93  | 33827   | 3.42 | ng | # 75   |
| 9) Nitrobenzene                | 8.99  | 77  | 40874   | 4.37 | ng | 93     |
| 10) Naphthalene                | 10.63 | 128 | 124774  | 3.38 | ng | 97     |
| 11) Hexachlorobutadiene        | 10.92 | 225 | 17912   | 3.35 | ng | 97     |
| 12) 2-Methylnaphthalene        | 12.24 | 142 | 93183   | 3.95 | ng | 95     |
| 16) Acenaphthylene             | 14.13 | 152 | 182772  | 4.50 | ng | # 86   |
| 17) Acenaphthene               | 14.47 | 154 | 115118  | 4.24 | ng | 96     |
| 18) Fluorene                   | 15.46 | 166 | 152791  | 4.60 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.34 | 248 | 42918   | 4.75 | ng | 97     |
| 21) Hexachlorobenzene          | 16.46 | 284 | 42931   | 4.49 | ng | 97     |
| 22) Pentachlorophenol          | 16.79 | 266 | 47104   | 9.45 | ng | 90     |
| 23) Phenanthrene               | 17.19 | 178 | 287461  | 4.86 | ng | 99     |
| 24) Anthracene                 | 17.28 | 178 | 261810  | 4.98 | ng | 98     |
| 25) Fluoranthene               | 19.19 | 202 | 339904  | 5.78 | ng | 98     |
| 28) Pyrene                     | 19.55 | 202 | 361945  | 5.68 | ng | 98     |
| 30) Benzo(a)anthracene         | 21.29 | 228 | 400017m | 5.41 | ng |        |
| 31) 3,3'-Dichlorobenzidine     | 21.22 | 252 | 14814   | 0.55 | ng | # 85   |
| 32) Chrysene                   | 21.34 | 228 | 389928m | 5.20 | ng |        |
| 33) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 163552  | 8.99 | ng | # 57   |
| 34) Indeno(1,2,3-cd)pyrene     | 26.30 | 276 | 396438  | 5.81 | ng | 97     |
| 36) Benzo(b)fluoranthene       | 23.00 | 252 | 367476m | 5.52 | ng |        |
| 37) Benzo(k)fluoranthene       | 23.05 | 252 | 362658  | 5.13 | ng | 97     |
| 38) Benzo(a)pyrene             | 23.63 | 252 | 337696  | 5.43 | ng | 96     |
| 39) Dibenzo(a,h)anthracene     | 26.33 | 278 | 329634  | 5.43 | ng | 97     |
| 40) Benzo(g,h,i)perylene       | 27.10 | 276 | 333117  | 5.29 | ng | 95     |

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

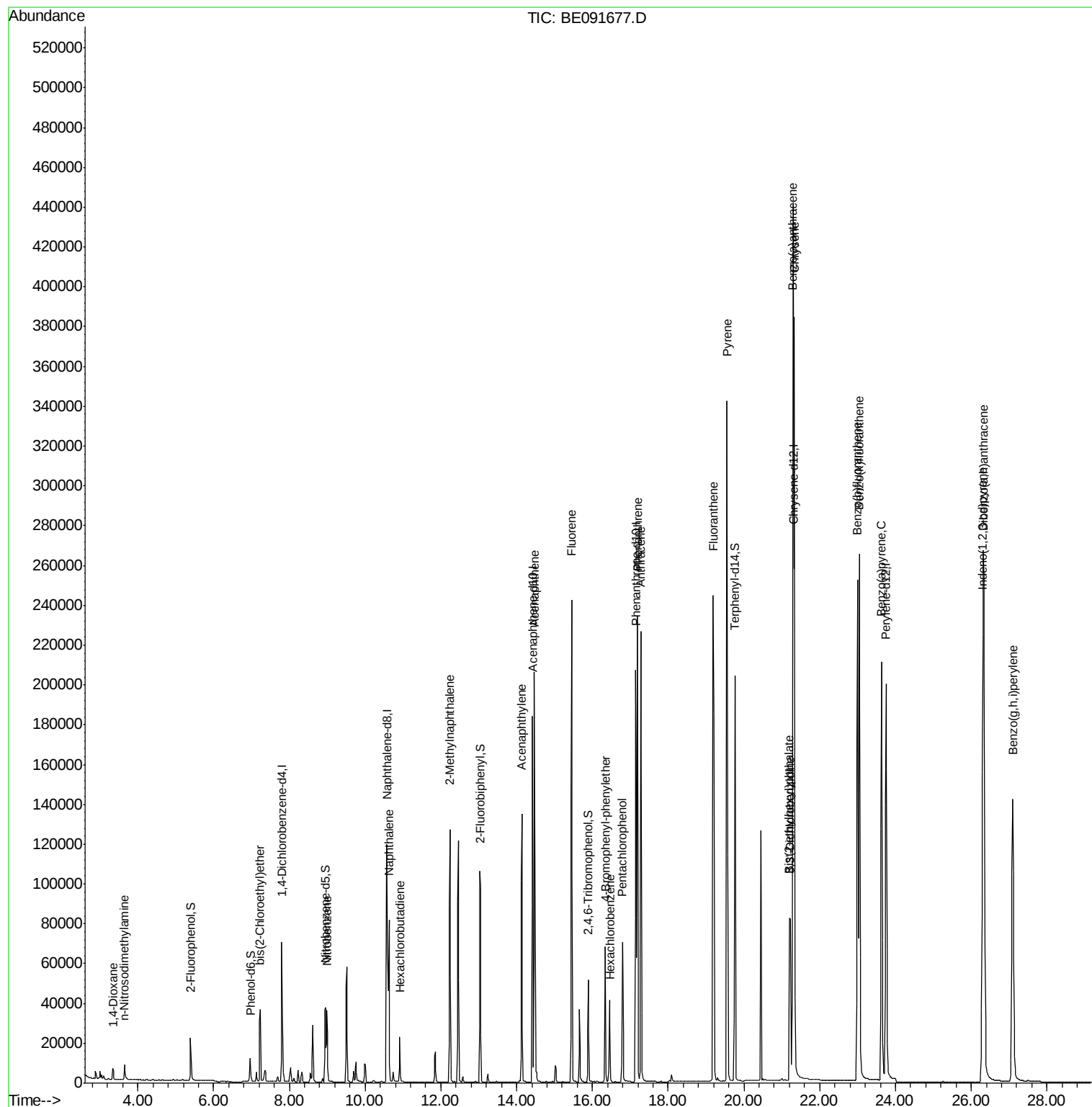
Data Path : Z:\HPCHEM1\BNA E\DATA\BE041816\  
Data File : BE091677.D  
Acq On : 18 Apr 2016 23:32  
Operator : UM/SJ  
Sample : H2563-06MSD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

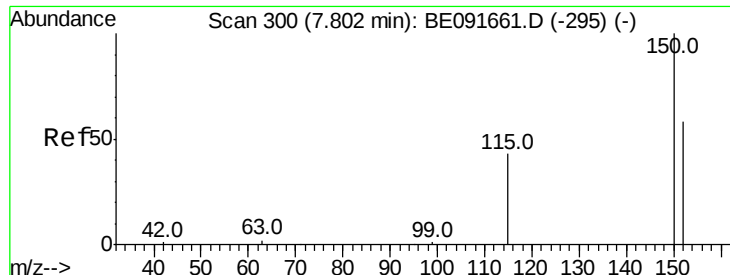
Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

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Quant Time: Apr 19 05:41:20 2016  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE041816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 18 17:20:40 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

Instrument :

BNA\_E

ClientSampleId :

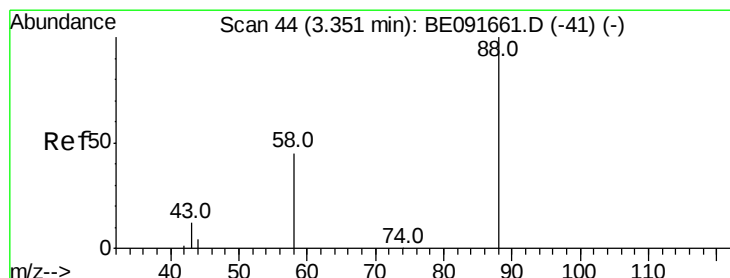
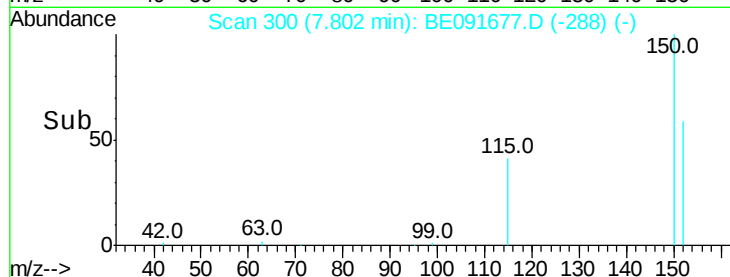
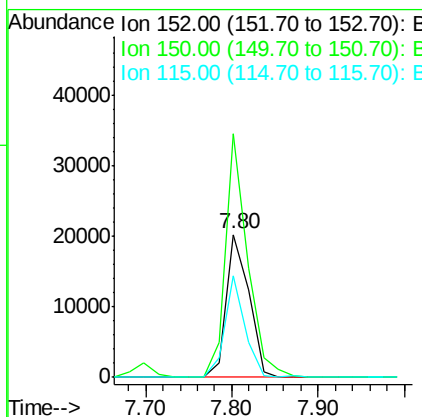
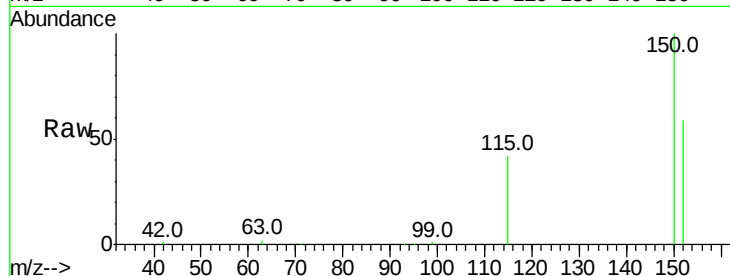
BCR08MSD

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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 36730 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 170.2 | 122.6 | 183.8 |
| 115      | 70.7  | 52.8  | 79.2  |



#2

1,4-Dioxane

Concen: 1.09 ng

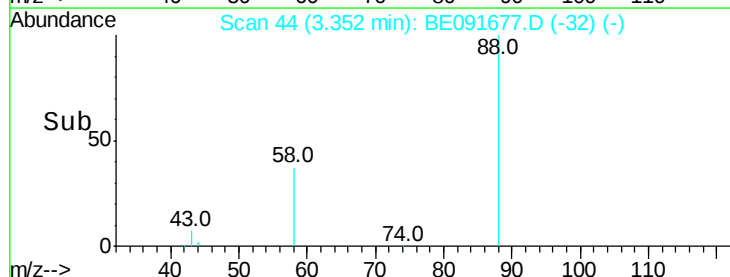
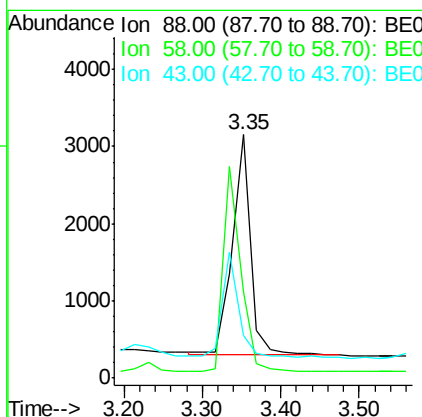
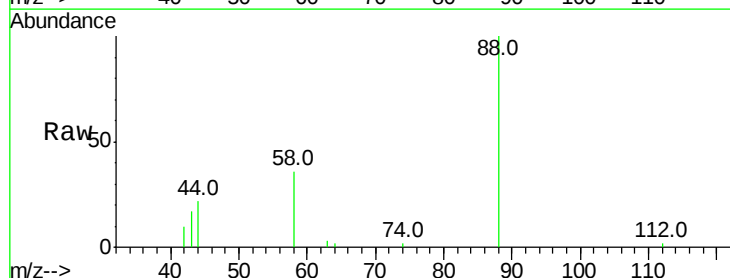
RT: 3.35 min Scan# 44

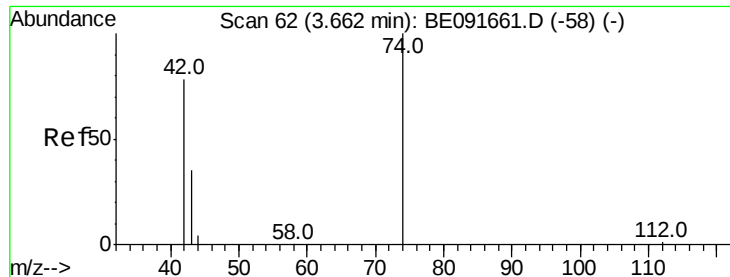
Delta R.T. 0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 4658  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 87.0  | 65.8  | 98.6  |
| 43       | 43.2  | 25.3  | 37.9# |





#3

n-Nitrosodimethylamine

Concen: 1.29 ng

RT: 3.65 min Scan# 61

Delta R.T. -0.02 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

Instrument :

BNA\_E

ClientSampleId :

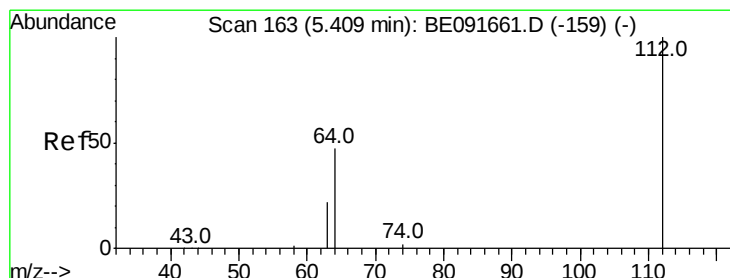
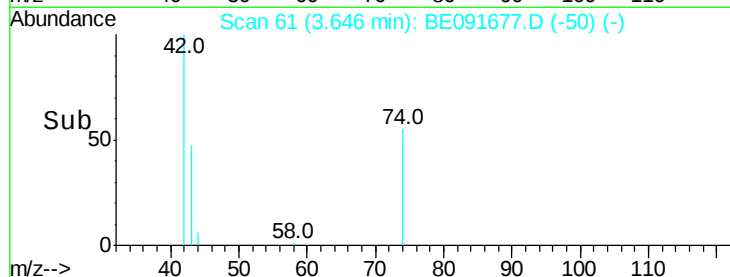
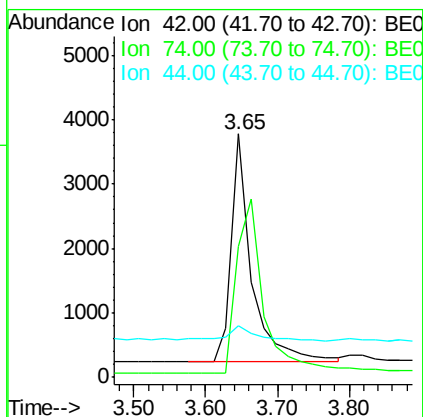
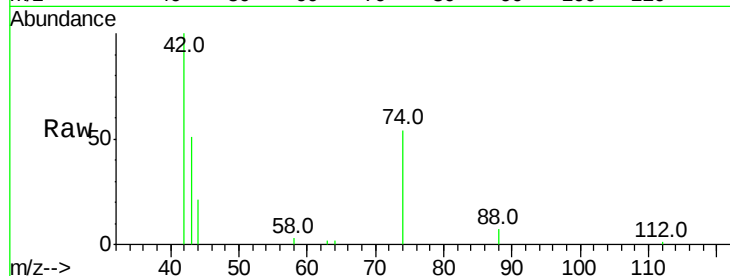
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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 6804  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 101.7 | 87.9  | 131.9 |
| 44       | 8.7   | 6.6   | 9.8   |



#4

2-Fluorophenol

Concen: 2.31 ng

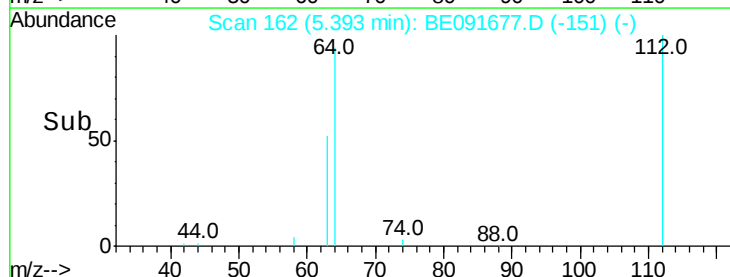
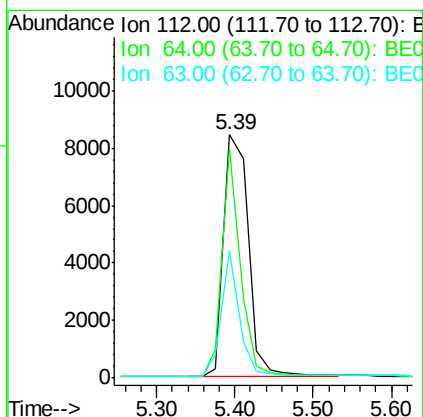
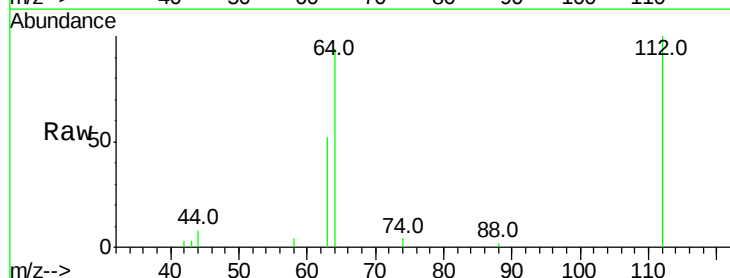
RT: 5.39 min Scan# 162

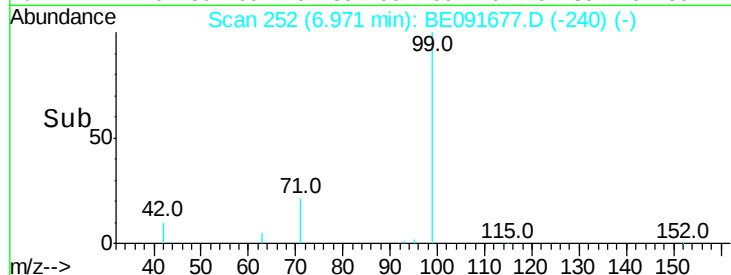
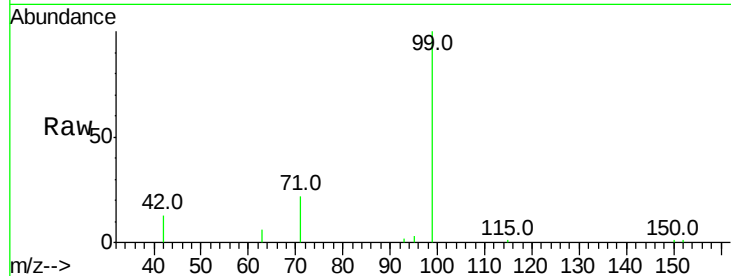
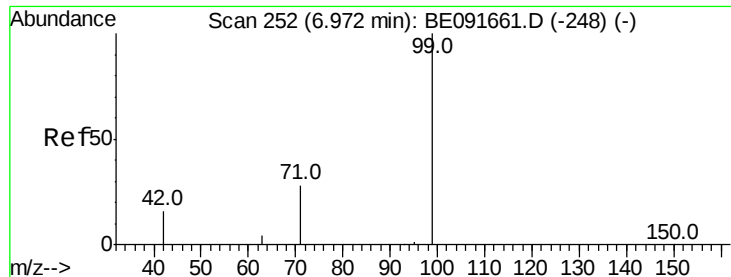
Delta R.T. -0.02 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 18436 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 69.1  | 30.9  | 46.3# |
| 63       | 37.5  | 16.7  | 25.1# |





#5

Phenol-d6

Concen: 1.49 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

Instrument :

BNA\_E

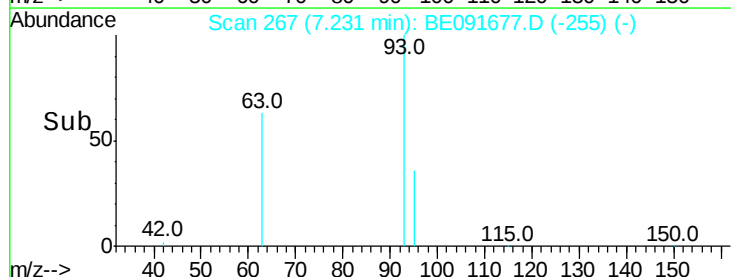
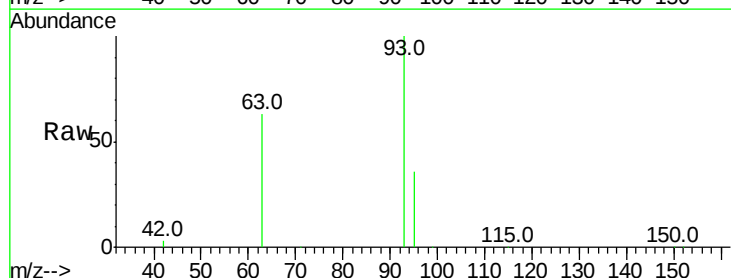
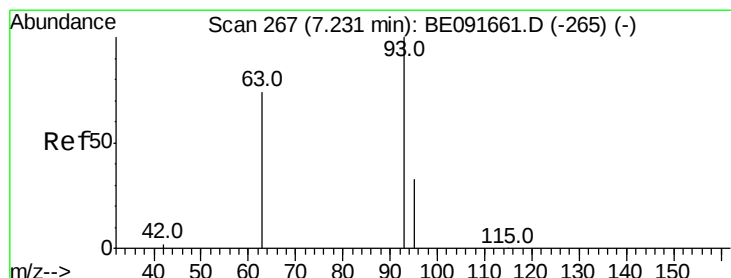
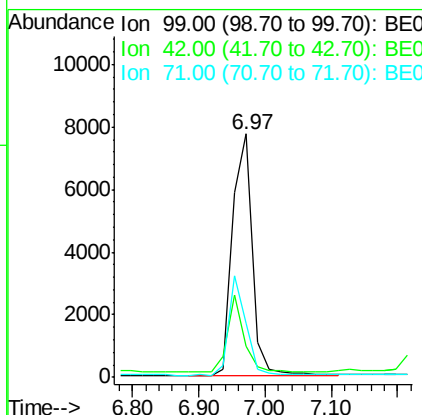
ClientSampleId :

BCR08MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 16031 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 25.8  | 16.2  | 24.2# |
| 71        | 36.1  | 29.0  | 43.4  |

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#6

bis(2-Chloroethyl)ether

Concen: 3.42 ng

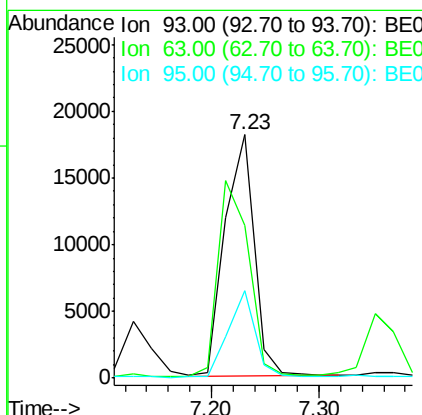
RT: 7.23 min Scan# 267

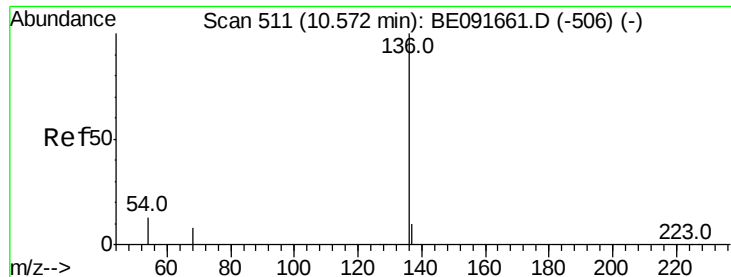
Delta R.T. -0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 33827 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 86.6  | 49.5  | 74.3# |
| 95        | 32.8  | 22.2  | 33.4  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. -0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

Instrument :

BNA\_E

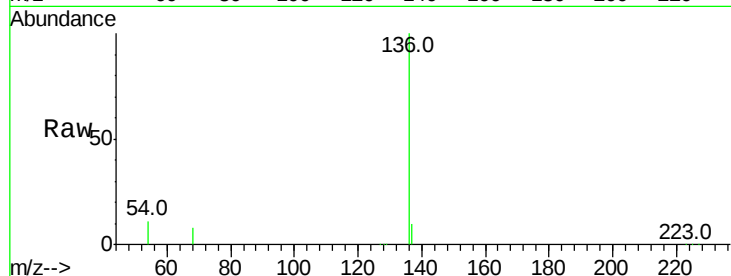
ClientSampleId :

BCR08MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 136     | 100   |            |       |
| 137     | 10.2  | 8.9        | 13.3  |
| 54      | 11.1  | 8.2        | 12.4  |
| 68      | 7.6   | 6.2        | 9.4   |

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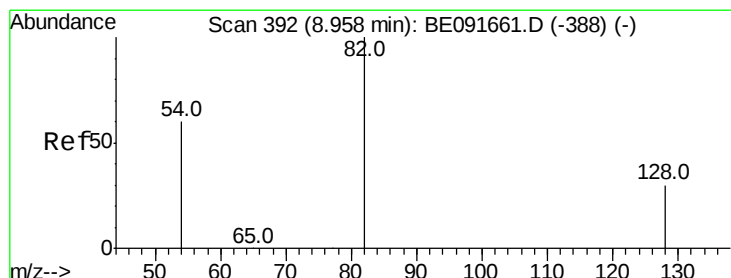
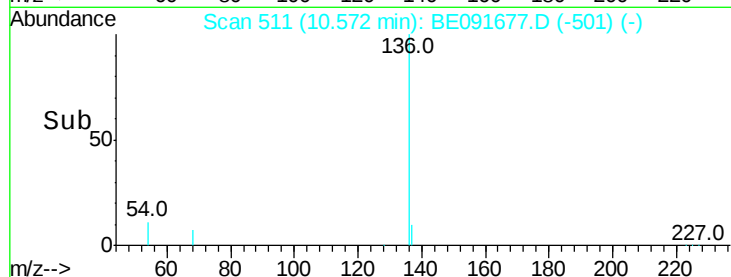
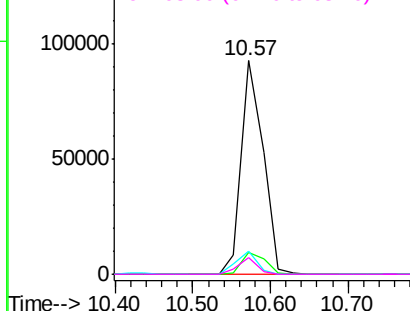


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 4.03 ng

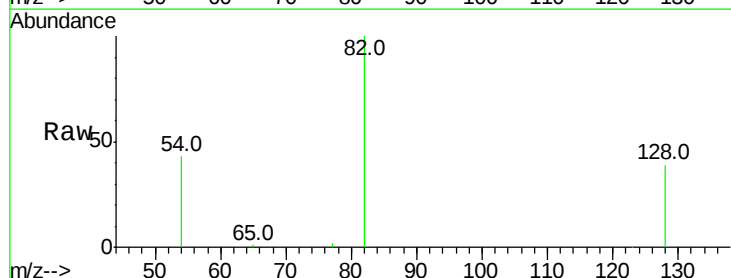
RT: 8.96 min Scan# 392

Delta R.T. 0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

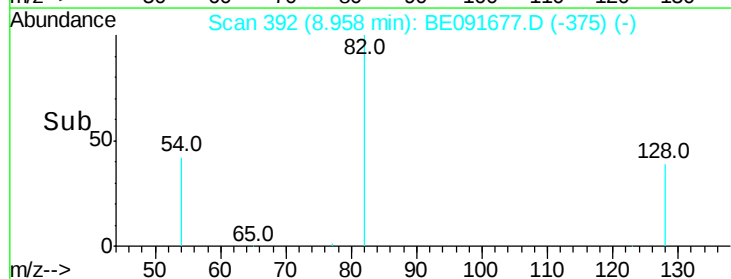
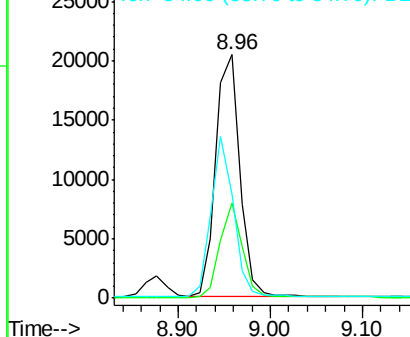
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 39.3  | 25.4       | 38.0# |
| 54      | 42.8  | 48.4       | 72.6# |

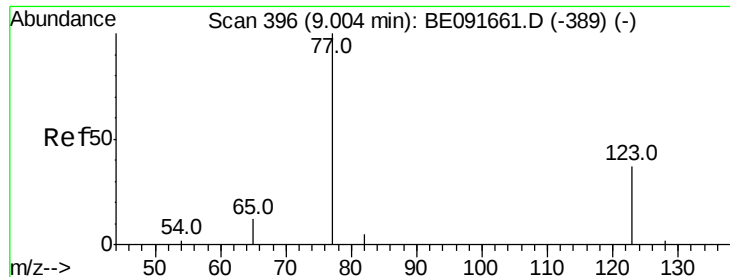


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 4.37 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.01 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

Instrument :

BNA\_E

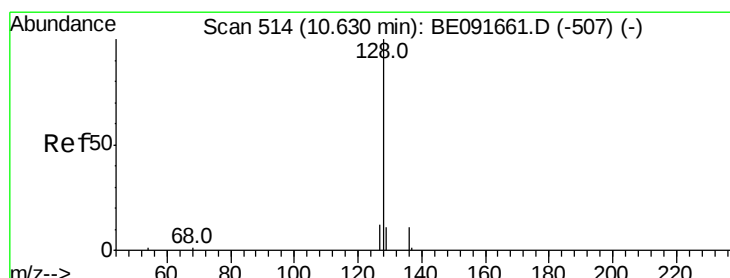
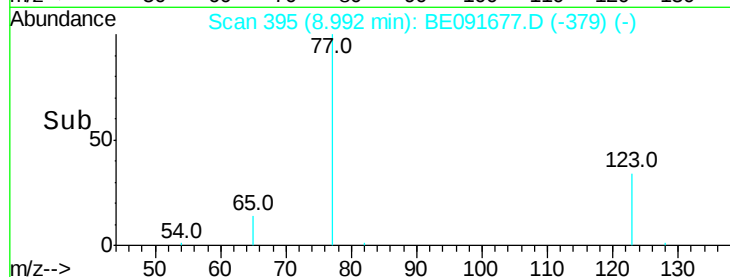
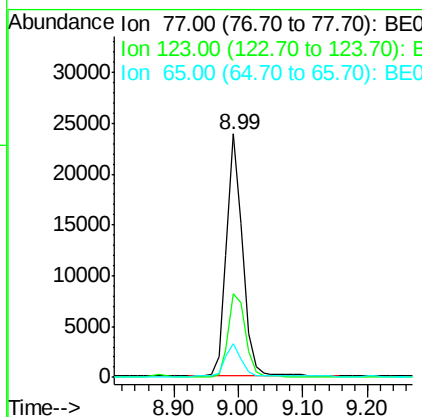
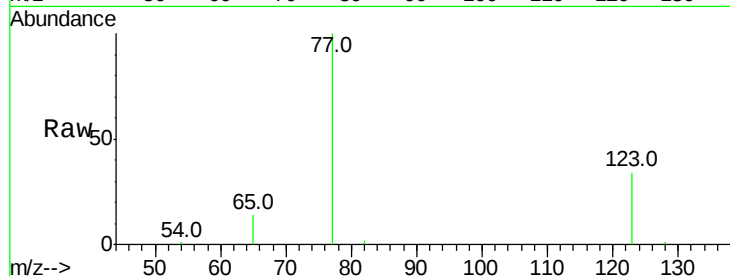
ClientSampleId :

BCR08MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 40874 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 37.5  | 26.9  | 40.3  |
| 65       | 14.0  | 9.4   | 14.2  |

Manual Integrations  
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#10

Naphthalene

Concen: 3.38 ng

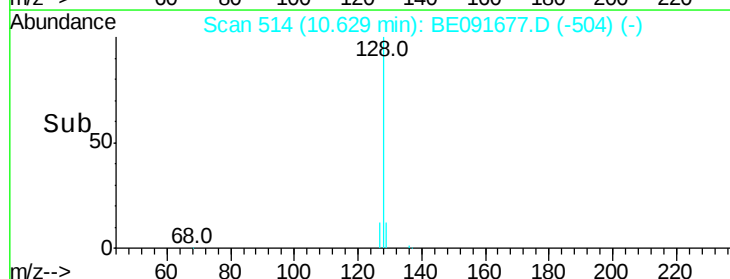
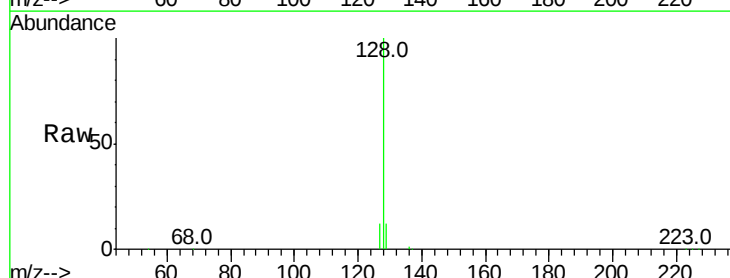
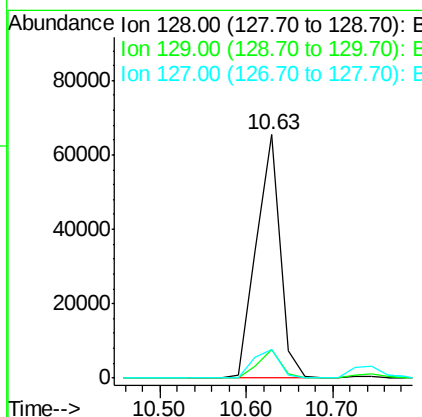
RT: 10.63 min Scan# 514

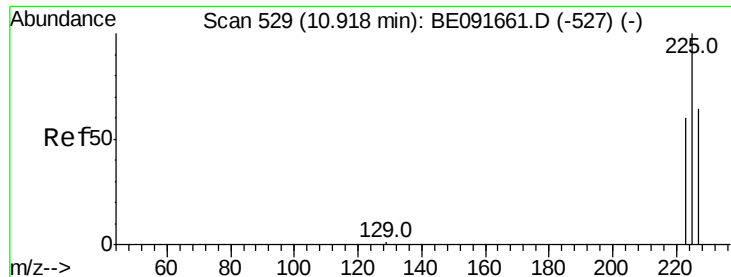
Delta R.T. -0.00 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 124774 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 11.9  | 9.3   | 13.9   |
| 127      | 11.7  | 10.7  | 16.1   |





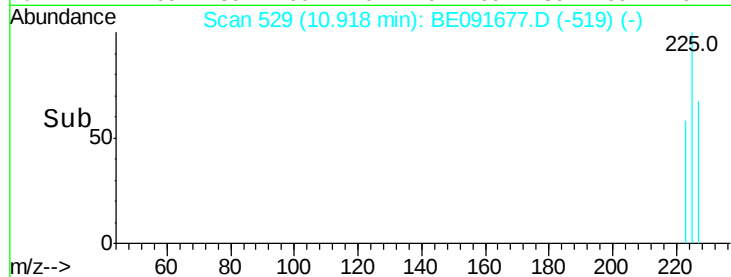
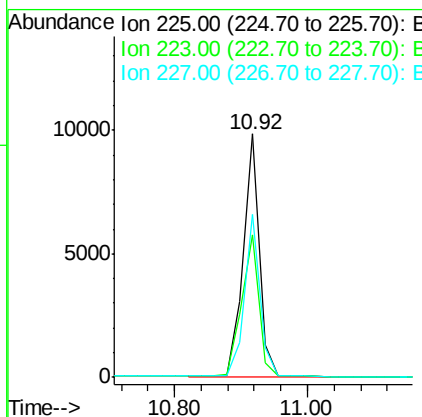
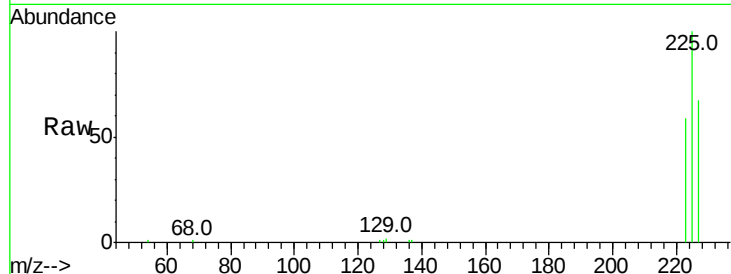
#11  
Hexachlorobutadiene  
Concen: 3.35 ng  
RT: 10.92 min Scan# 529  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.8  | 49.0  | 73.6  |
| 227     | 65.7  | 50.3  | 75.5  |

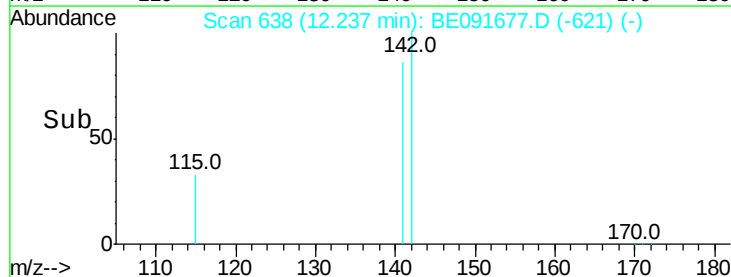
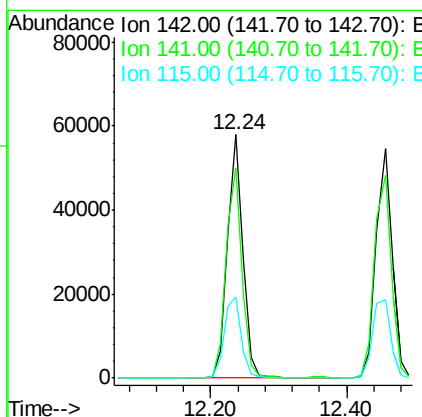
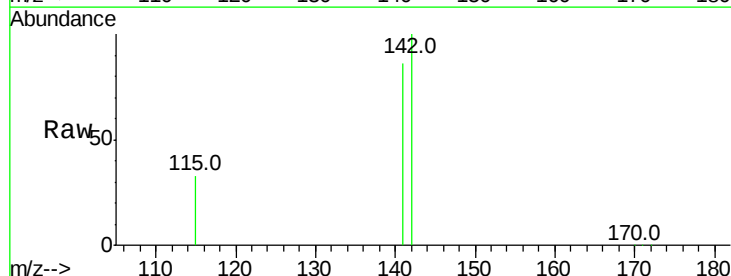
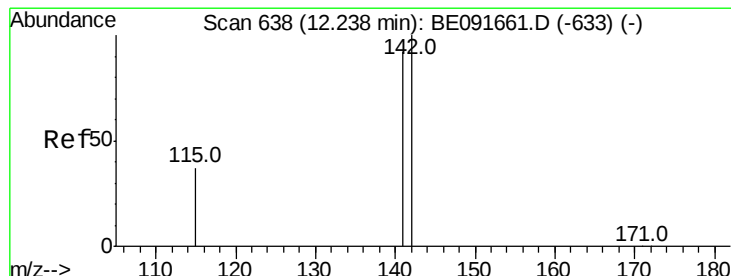
Manual Integrations  
APPROVED

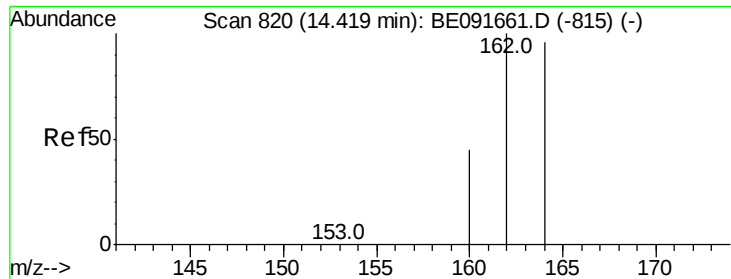
Sohil  
4/19/2016 6:42:12 PM



#12  
2-Methylnaphthalene  
Concen: 3.95 ng  
RT: 12.24 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.2  | 71.4  | 107.0 |
| 115     | 33.1  | 30.3  | 45.5  |





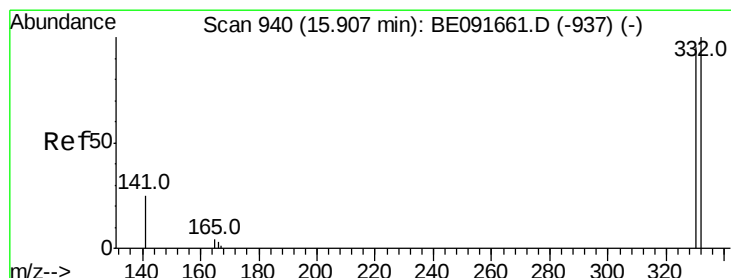
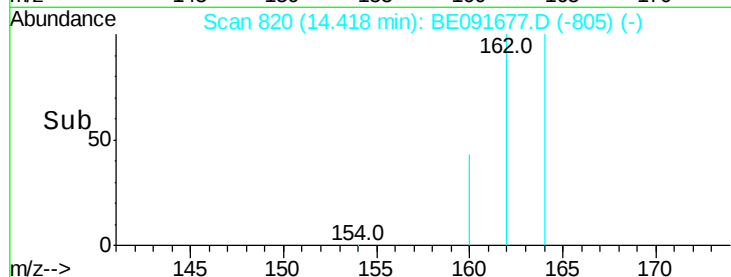
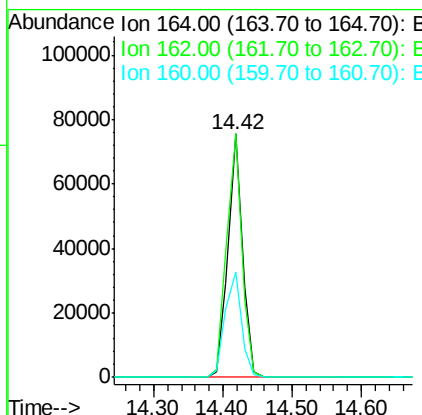
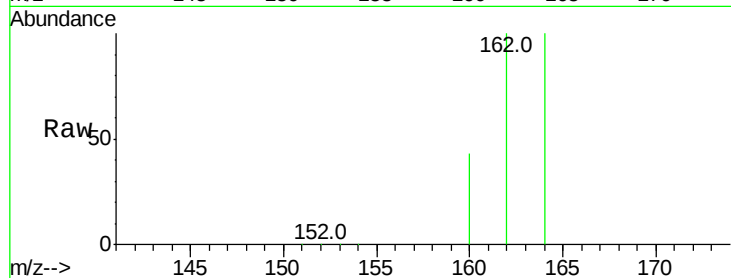
#13  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.42 min Scan# 820  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.2 | 85.3  | 127.9 |
| 160     | 43.4  | 46.2  | 69.2# |

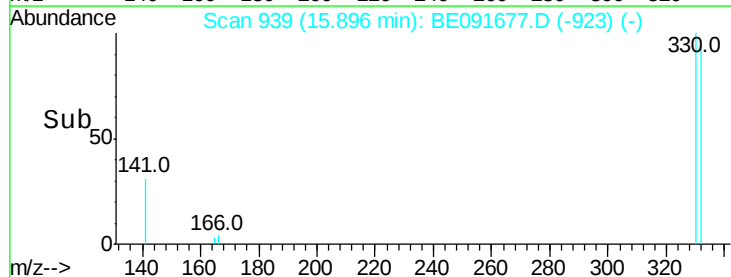
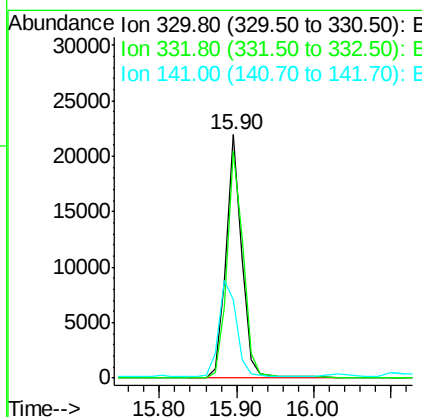
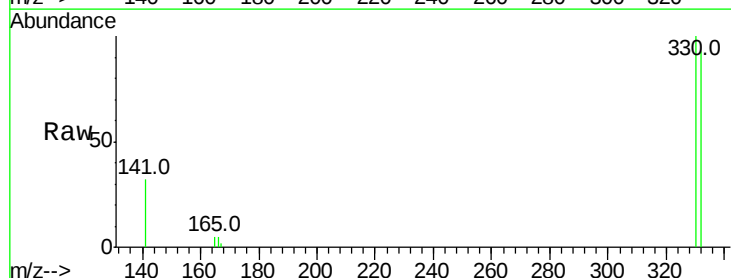
Manual Integrations  
APPROVED

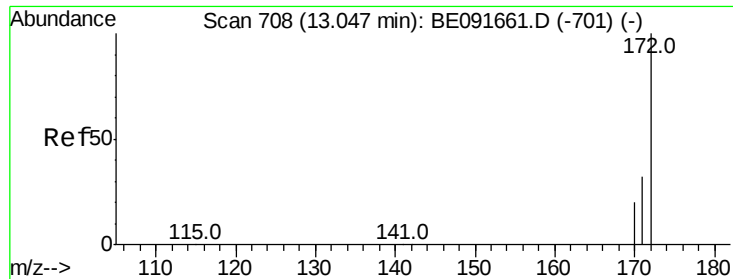
Sohil  
4/19/2016 6:42:12 PM



#14  
2,4,6-Tribromophenol  
Concen: 10.86 ng  
RT: 15.90 min Scan# 939  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 97.1  | 79.1  | 118.7  |
| 141     | 39.7  | 125.4 | 188.0# |





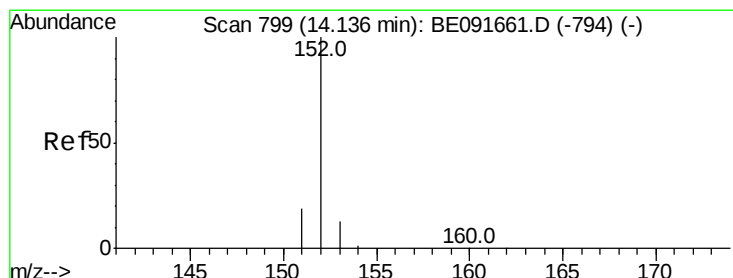
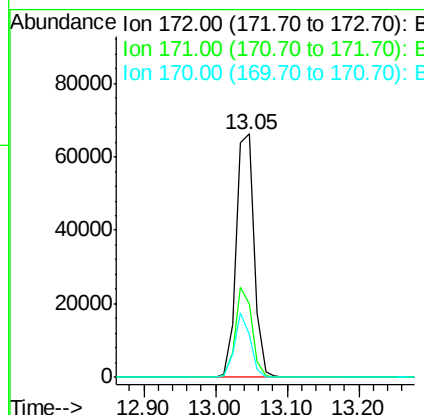
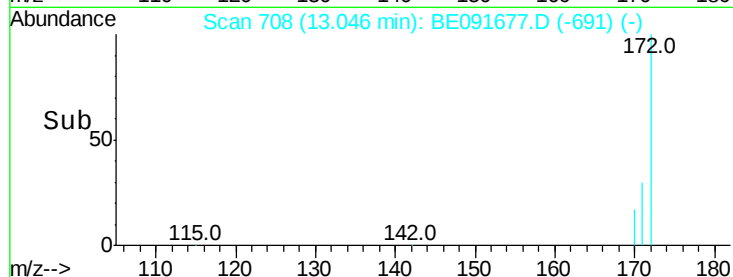
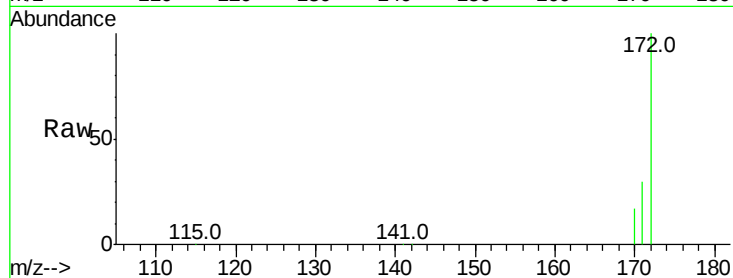
#15  
2-Fluorobiphenyl  
Concen: 3.73 ng  
RT: 13.05 min Scan# 708  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 30.0  | 28.8 | 43.2  |       |
| 170     | 17.4  | 19.3 | 28.9  |       |

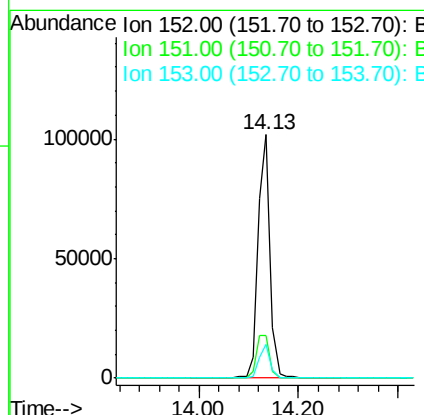
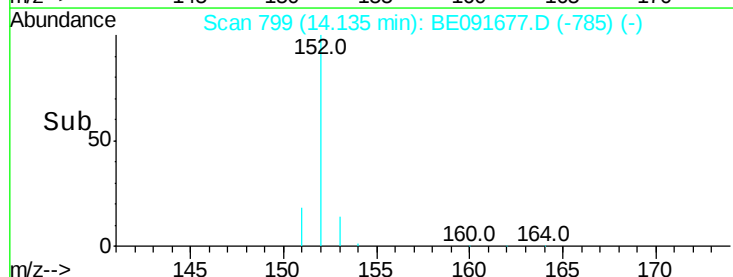
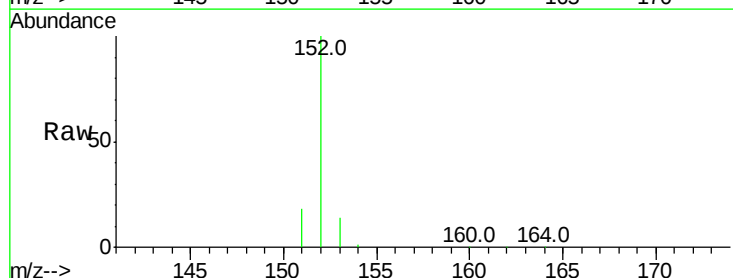
Manual Integrations  
APPROVED

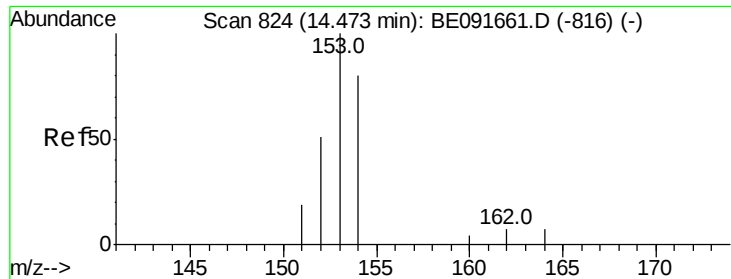
Sohil  
4/19/2016 6:42:12 PM



#16  
Acenaphthylene  
Concen: 4.50 ng  
RT: 14.13 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 152     | 100   |      |       |       |
| 151     | 20.2  | 3.9  | 5.9   |       |
| 153     | 13.7  | 10.3 | 15.5  |       |





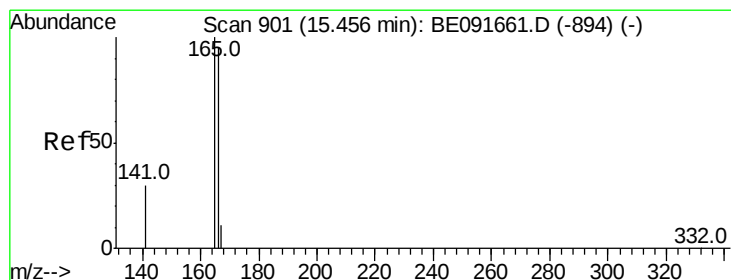
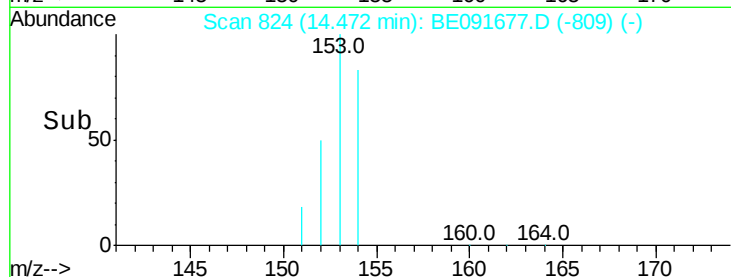
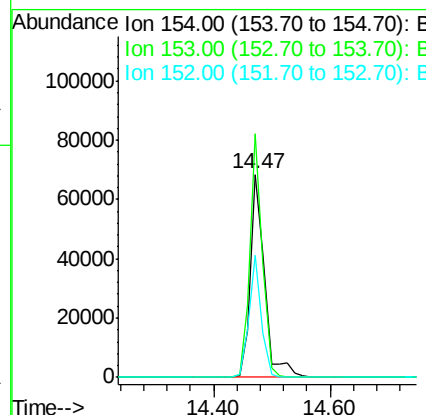
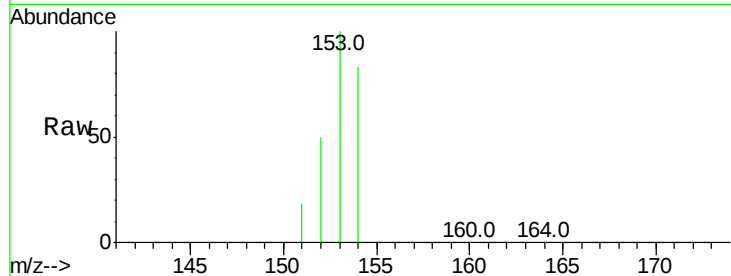
#17  
Acenaphthene  
Concen: 4.24 ng  
RT: 14.47 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 115118 |       |       |
| 153     | 104.8 | 80.0   | 120.0 |       |
| 152     | 51.8  | 40.0   | 60.0  |       |

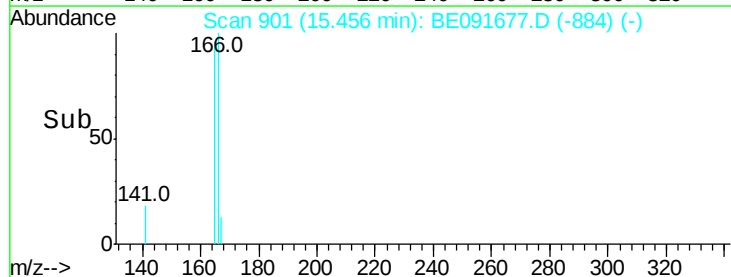
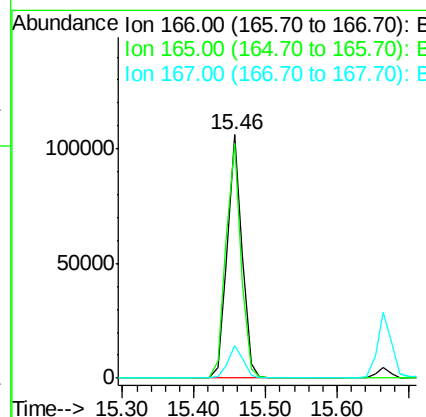
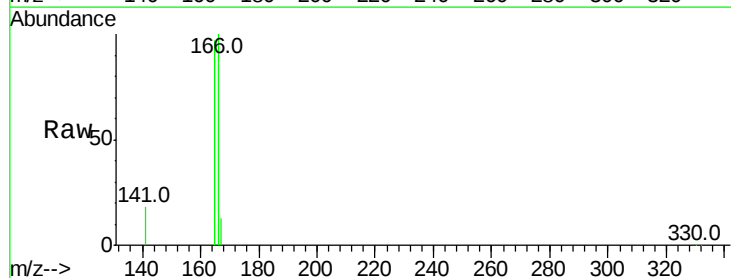
Manual Integrations  
APPROVED

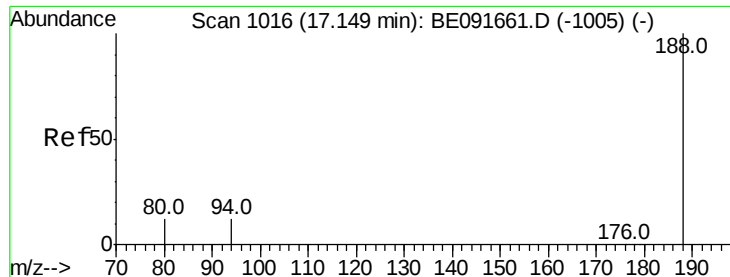
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#18  
Fluorene  
Concen: 4.60 ng  
RT: 15.46 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 152791 |       |       |
| 165     | 98.2  | 80.8   | 121.2 |       |
| 167     | 13.7  | 10.9   | 16.3  |       |





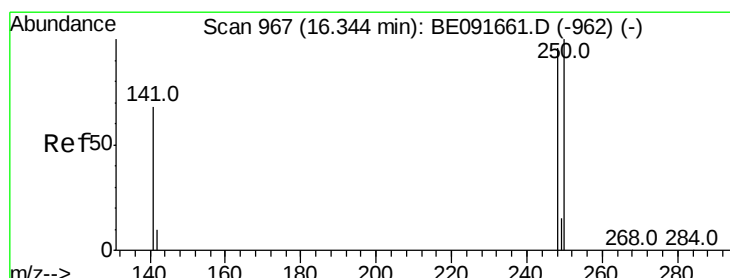
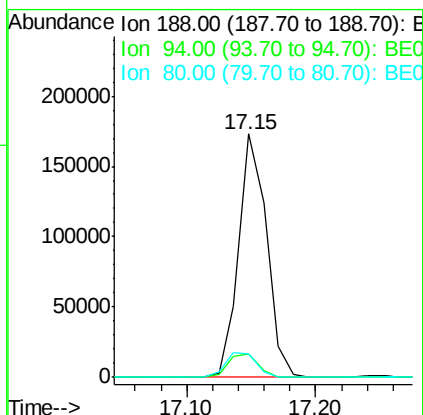
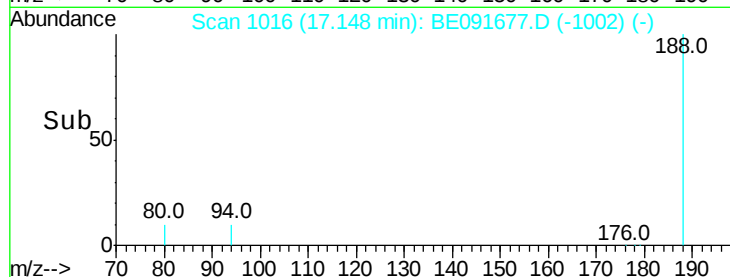
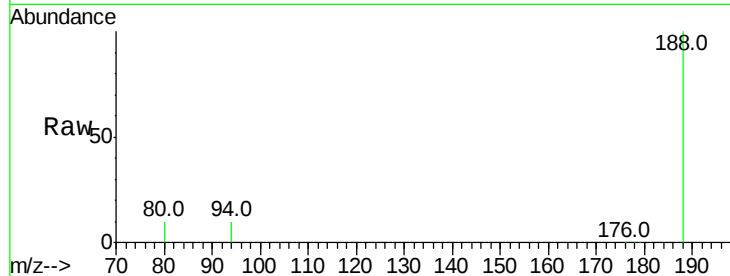
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.15 min Scan# 1016  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.9   | 8.7        | 13.1  |
| 80      | 9.6   | 9.4        | 14.0  |

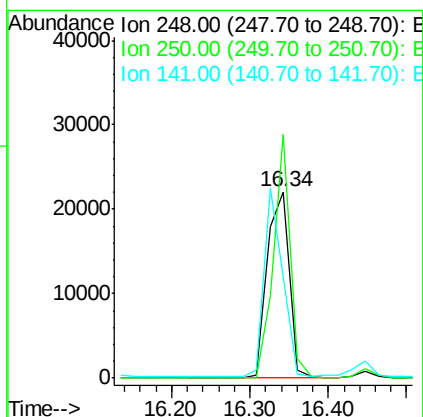
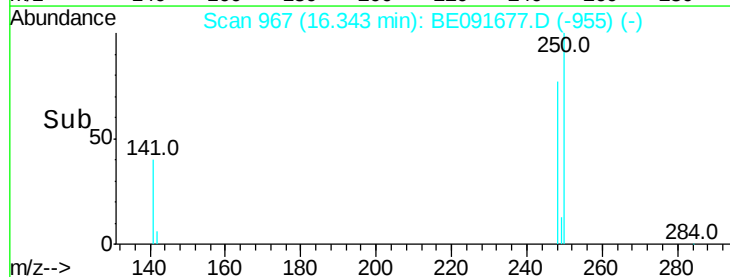
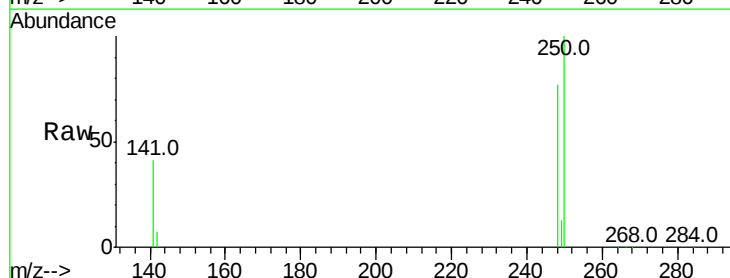
Manual Integrations  
APPROVED

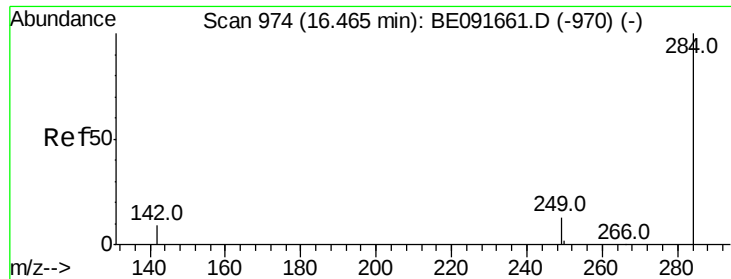
Sohil  
4/19/2016 6:42:12 PM



#20  
4-Bromophenyl-phenylether  
Concen: 4.75 ng  
RT: 16.34 min Scan# 967  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 248     | 100   |            |       |
| 250     | 99.3  | 80.5       | 120.7 |
| 141     | 85.8  | 72.0       | 108.0 |





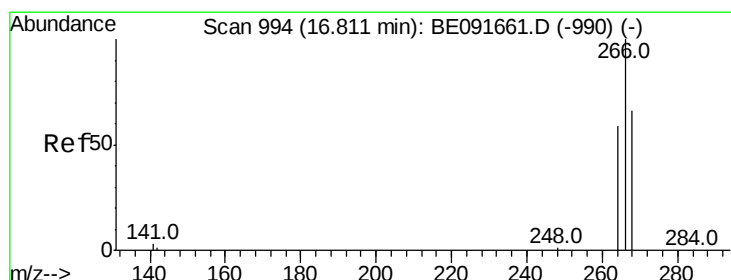
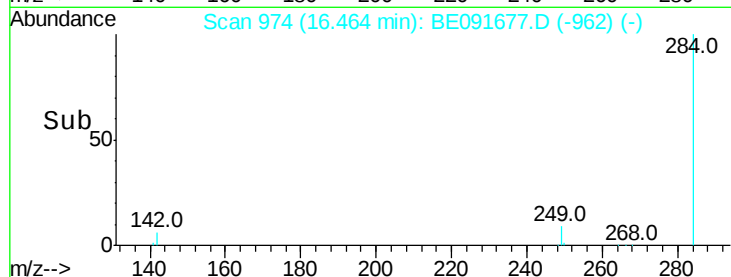
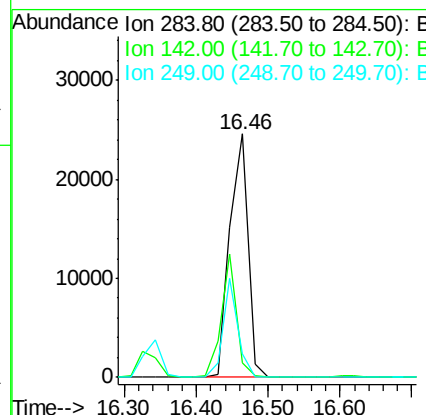
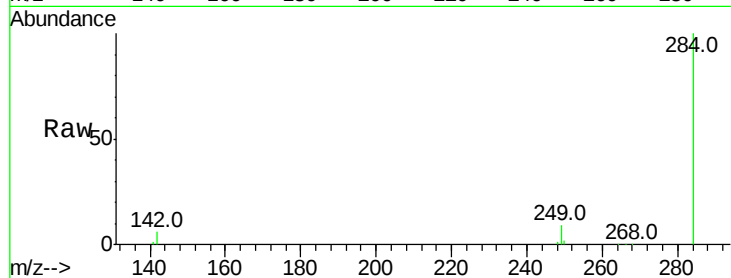
#21  
Hexachlorobenzene  
Concen: 4.49 ng  
RT: 16.46 min Scan# 974  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 42.0  | 32.2  | 48.2  |
| 249     | 33.1  | 25.4  | 38.2  |

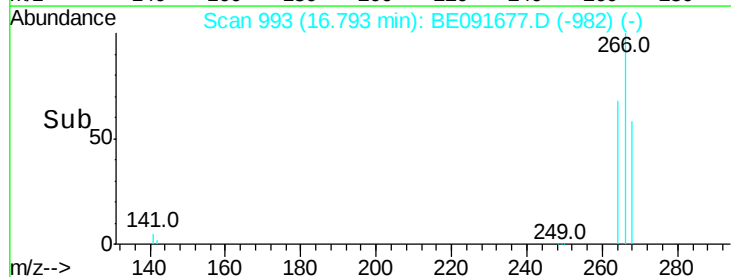
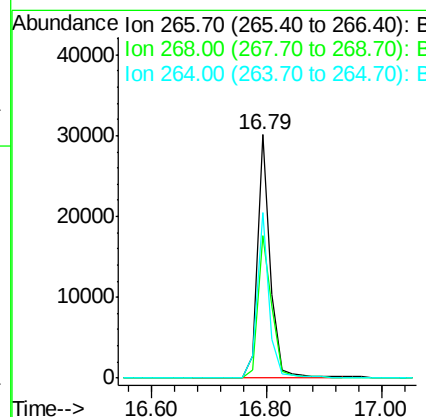
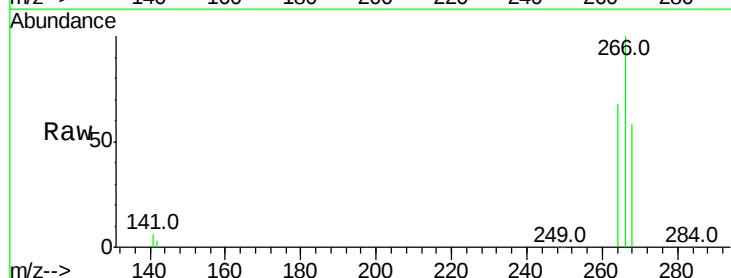
Manual Integrations  
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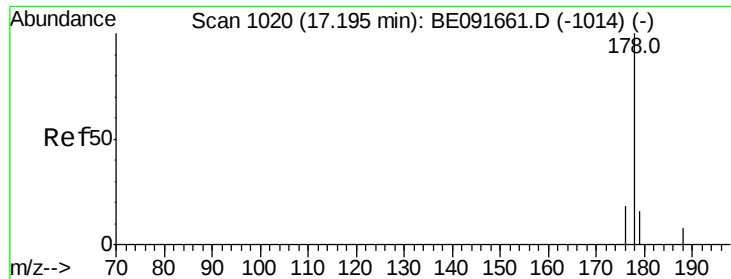
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#22  
Pentachlorophenol  
Concen: 9.45 ng  
RT: 16.79 min Scan# 993  
Delta R.T. -0.02 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 58.3  | 58.2  | 87.2  |
| 264     | 68.2  | 56.2  | 84.4  |





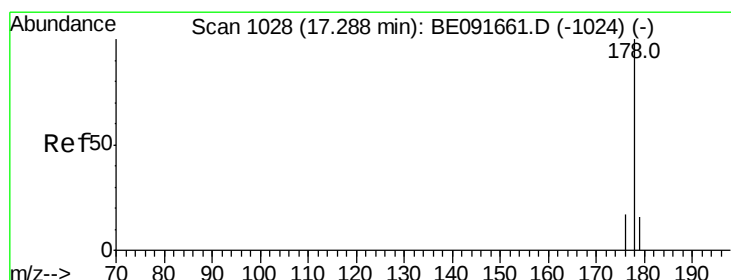
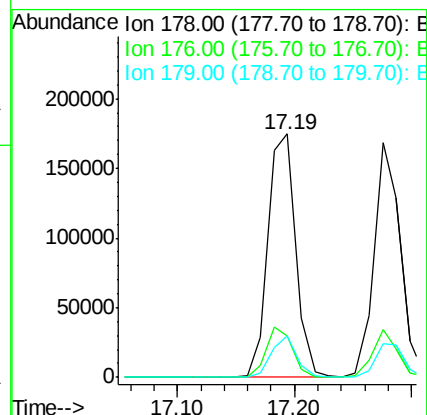
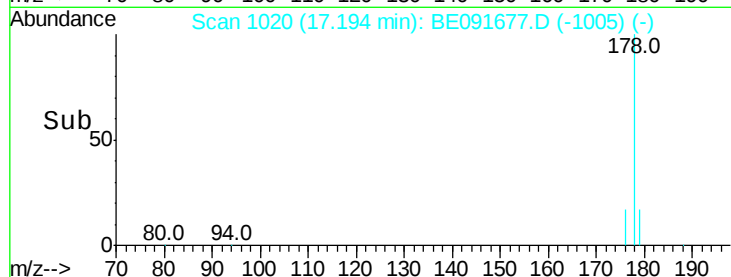
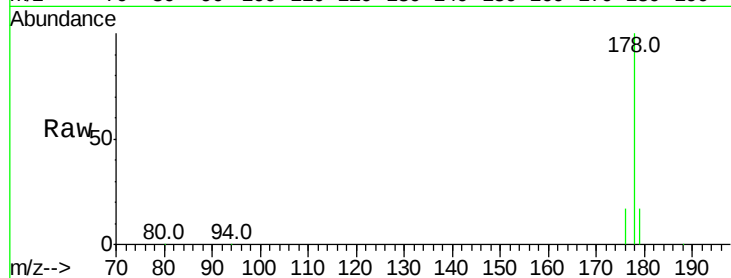
#23  
Phenanthrene  
Concen: 4.86 ng  
RT: 17.19 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.4  | 15.3  | 22.9  |
| 179     | 15.4  | 12.6  | 18.8  |

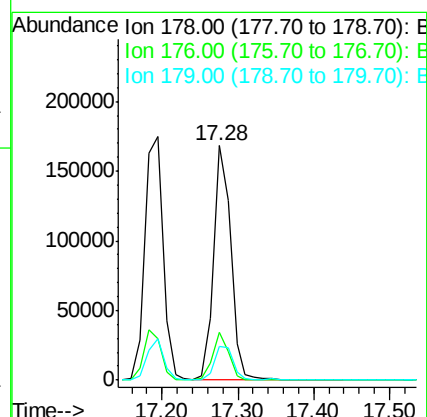
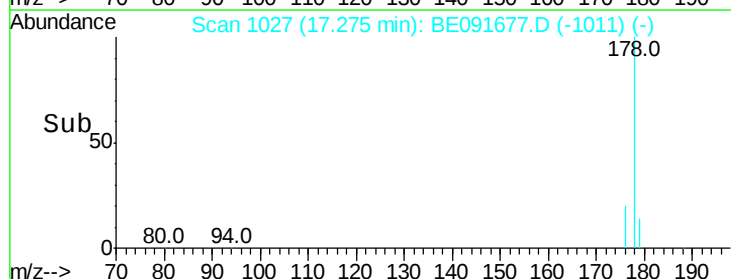
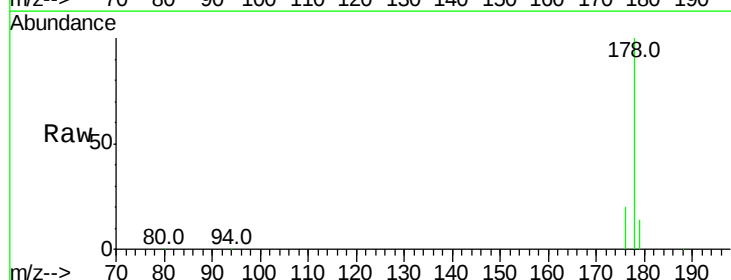
Manual Integrations  
APPROVED

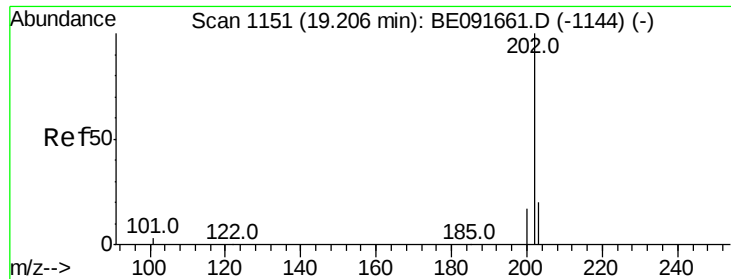
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#24  
Anthracene  
Concen: 4.98 ng  
RT: 17.28 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 14.6  | 21.8  |
| 179     | 15.3  | 11.8  | 17.6  |





#25

Fluoranthene

Concen: 5.78 ng

RT: 19.19 min Scan# 1150

Delta R.T. -0.02 min

Lab File: BE091677.D

Acq: 18 Apr 2016 23:32

Instrument :

BNA\_E

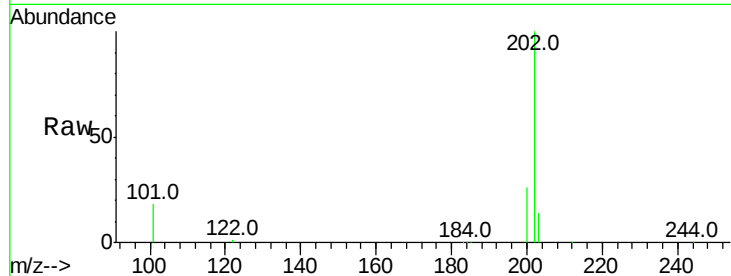
ClientSampleId :

BCR08MSD

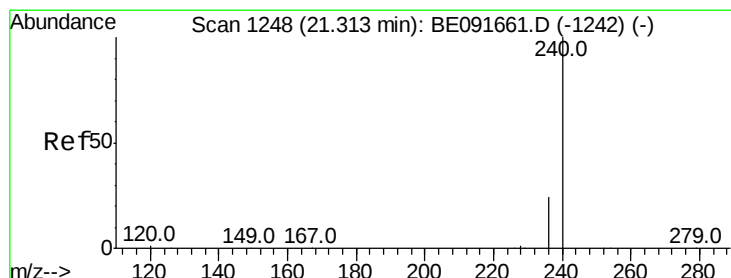
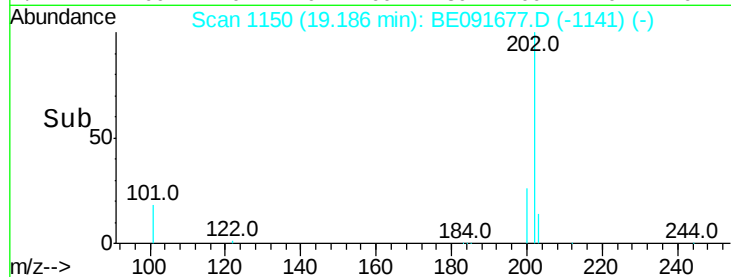
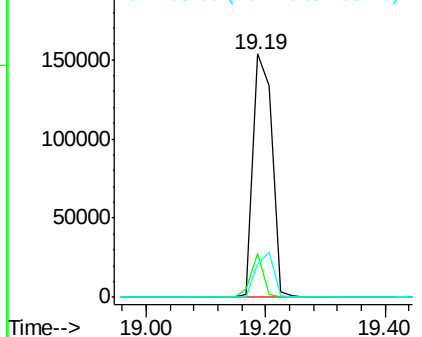
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 339904 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 11.0  | 16.6   |
| 203       | 17.6  | 13.9  | 20.9   |

Manual Integrations  
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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



#26

Chrysene-d12

Concen: 5.00 ng

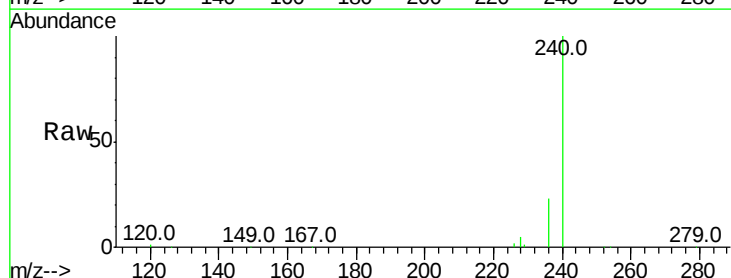
RT: 21.31 min Scan# 1248

Delta R.T. 0.00 min

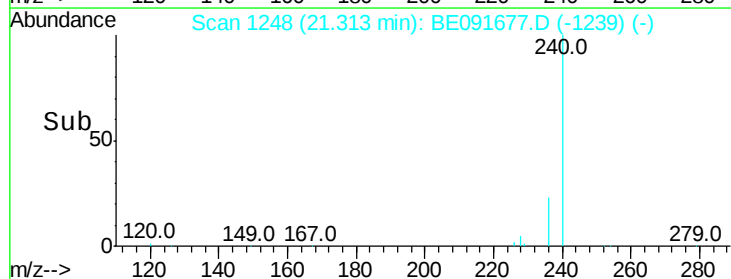
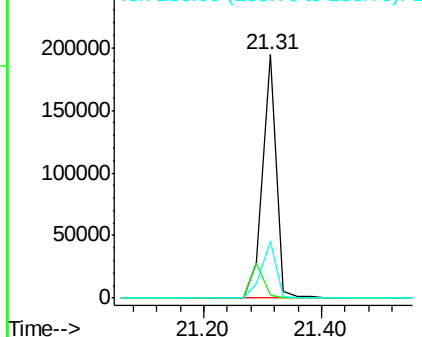
Lab File: BE091677.D

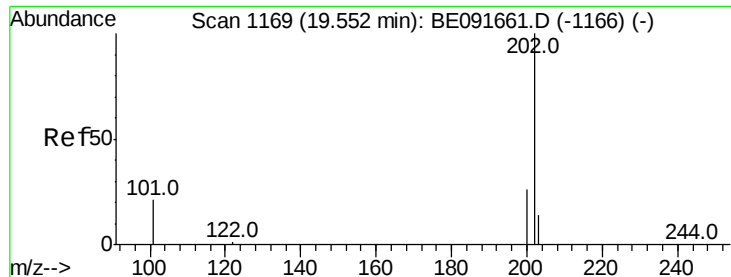
Acq: 18 Apr 2016 23:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 318741 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 1.1   | 11.0  | 16.4#  |
| 236       | 23.2  | 21.7  | 32.5   |



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





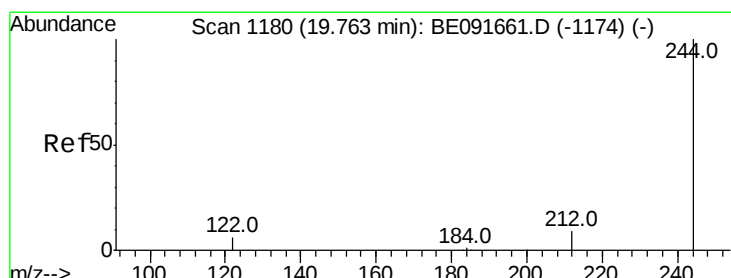
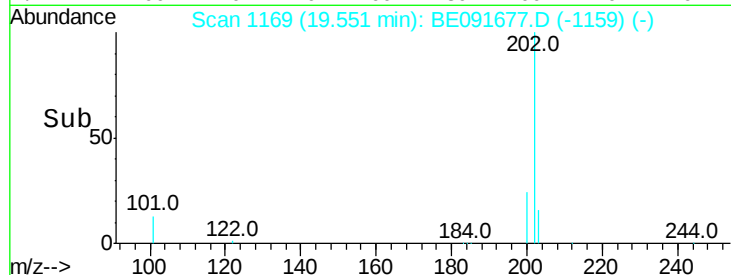
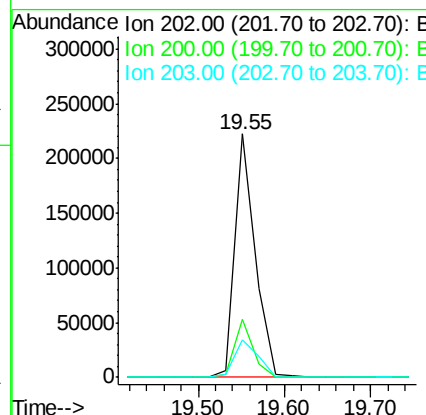
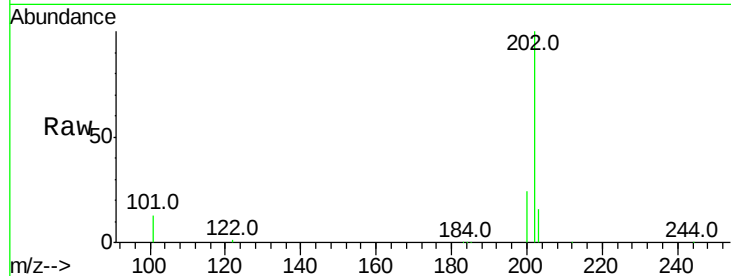
#28  
Pvrene  
Concen: 5.68 ng  
RT: 19.55 min Scan# 1169  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.7  | 16.8       | 25.2  |
| 203     | 18.3  | 14.0       | 21.0  |

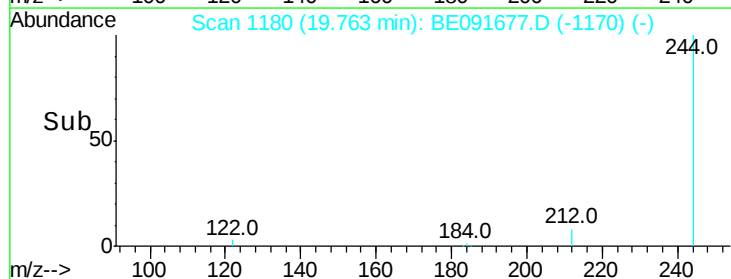
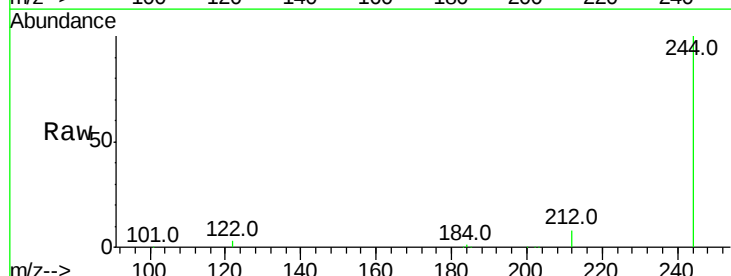
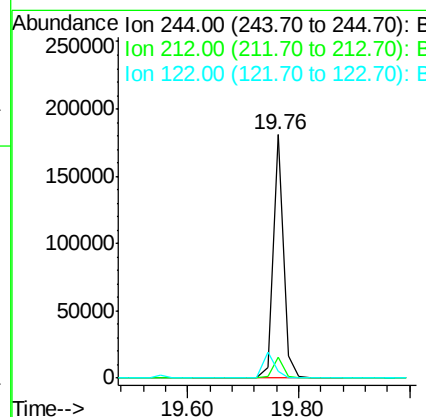
Manual Integrations  
APPROVED

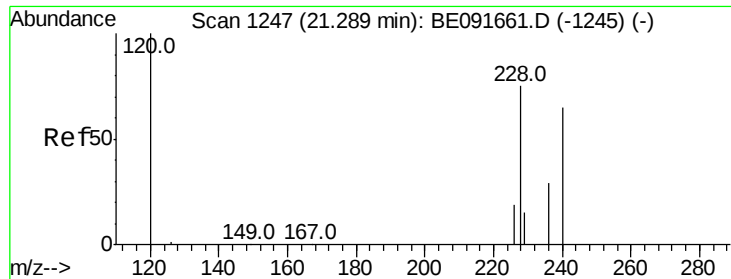
Sohil  
4/19/2016 6:42:12 PM



#29  
Terphenyl-d14  
Concen: 5.50 ng  
RT: 19.76 min Scan# 1180  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 8.4   | 6.9        | 10.3  |
| 122     | 2.8   | 11.0       | 16.4# |





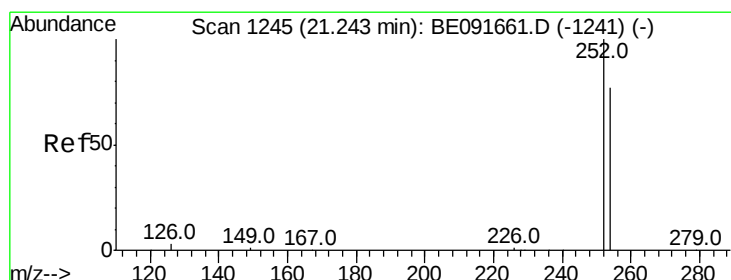
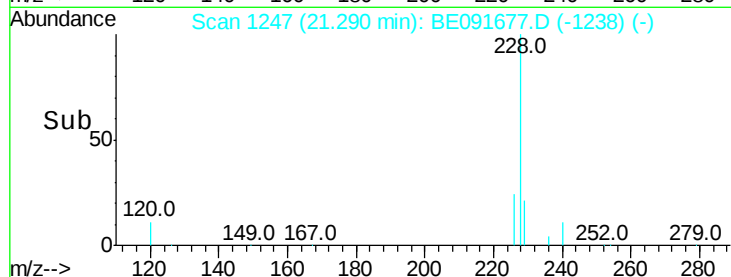
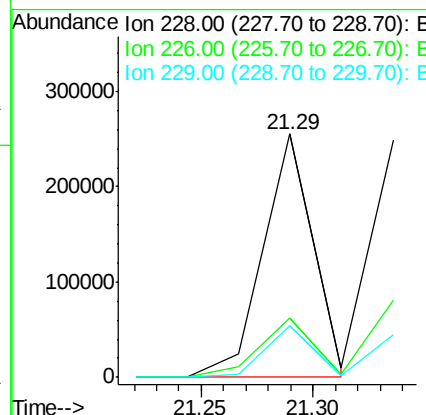
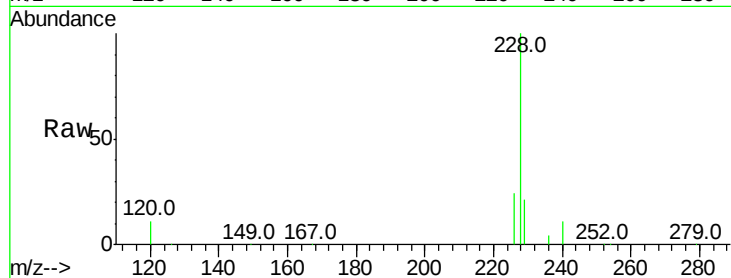
#30  
Benzo(a)anthracene  
Concen: 5.41 ng/mL  
RT: 21.29 min Scan# 1247  
Delta R.T. 0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 24.3  | 21.0  | 31.4  |
| 229     | 21.3  | 15.7  | 23.5  |

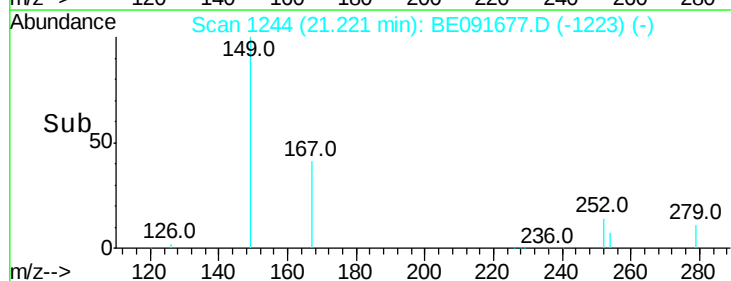
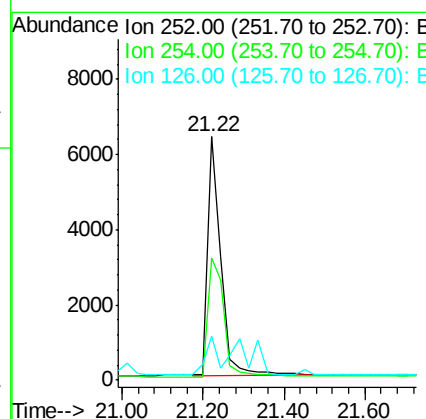
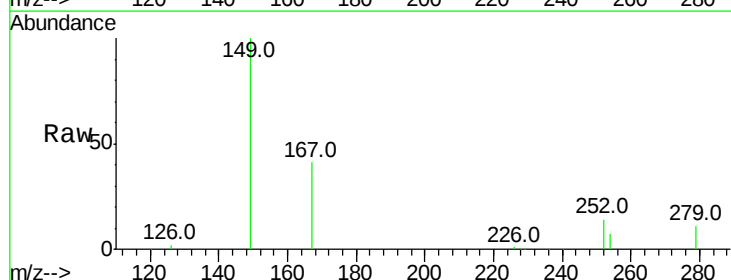
Manual Integrations  
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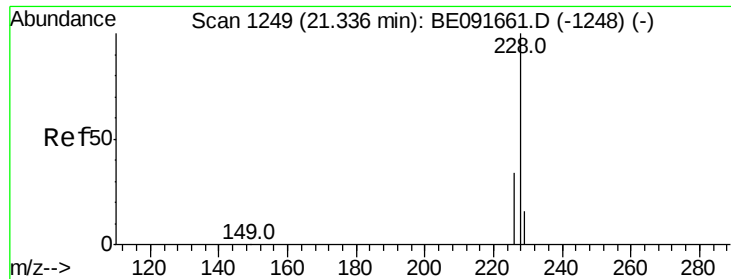
Sohil  
4/19/2016 6:42:12 PM



#31  
3,3'-Dichlorobenzidine  
Concen: 0.55 ng/mL  
RT: 21.22 min Scan# 1244  
Delta R.T. -0.02 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 50.4  | 51.1  | 76.7# |
| 126     | 18.0  | 12.6  | 18.8  |





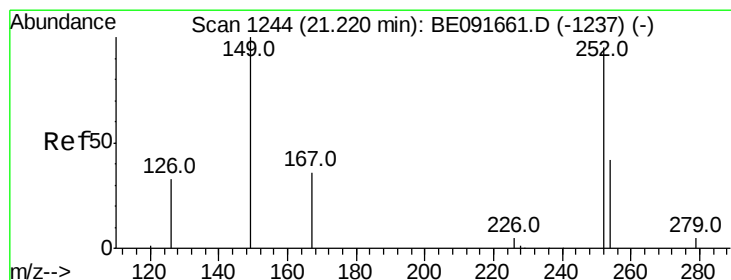
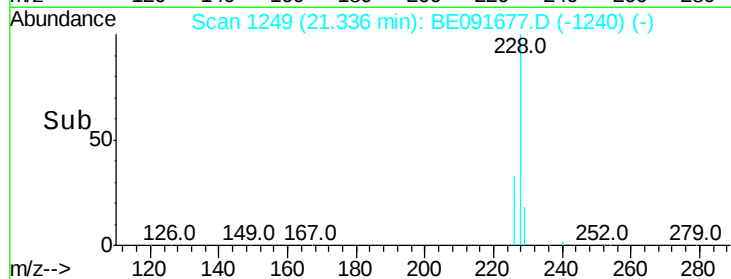
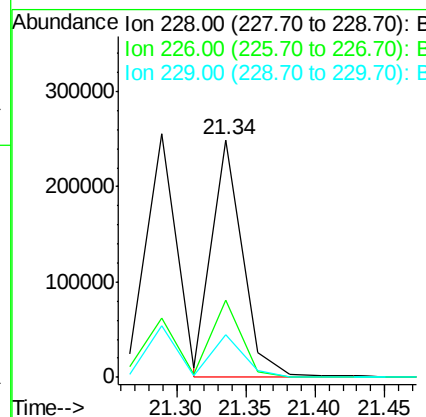
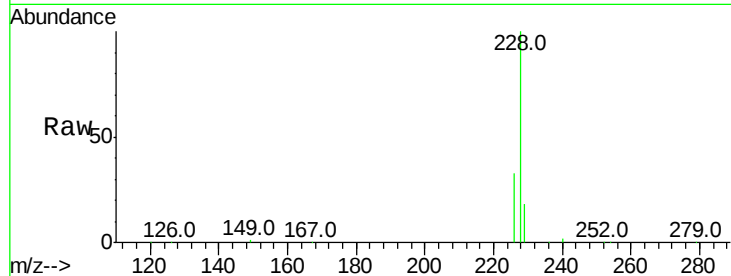
#32  
Chrysene  
Concen: 5.20 ng/ml  
RT: 21.34 min Scan# 1249  
Delta R.T. 0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.8  | 24.0  | 36.0  |
| 229     | 17.8  | 15.9  | 23.9  |

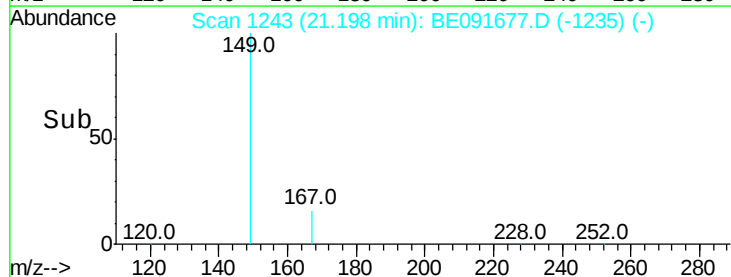
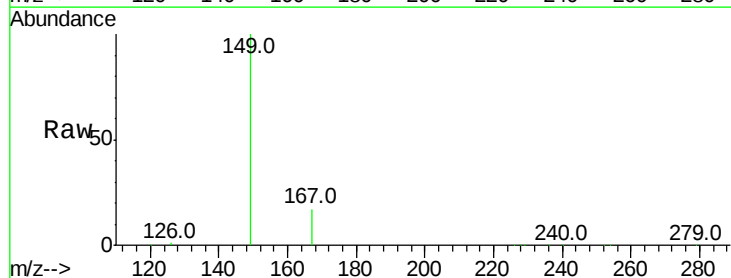
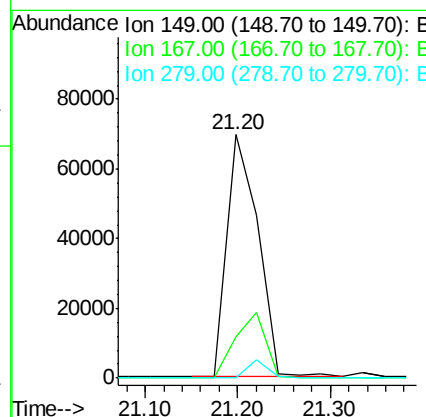
Manual Integrations  
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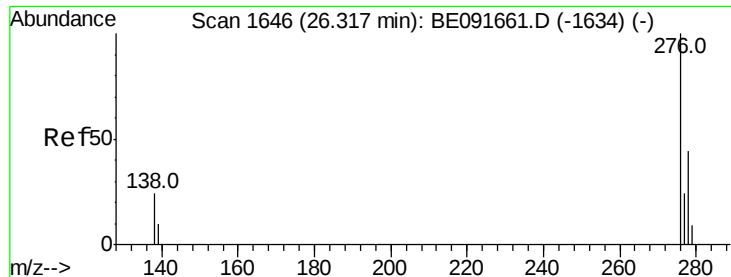
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#33  
Bis(2-ethylhexyl)phthalate  
Concen: 8.99 ng  
RT: 21.20 min Scan# 1243  
Delta R.T. -0.02 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 0.0   | 19.5  | 29.3# |
| 279     | 0.0   | 10.0  | 15.0# |





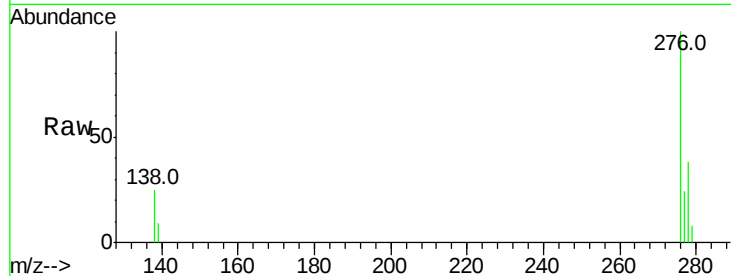
#34  
Indeno(1,2,3-cd)pyrene  
Concen: 5.81 ng  
RT: 26.30 min Scan# 1645  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

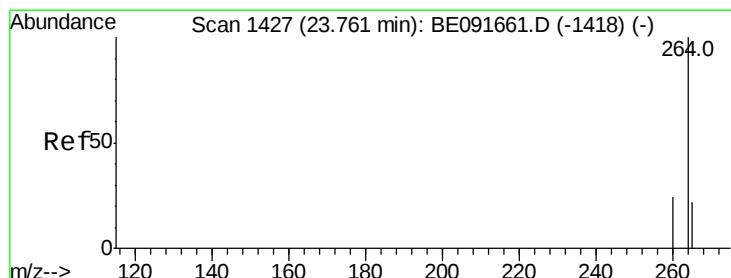
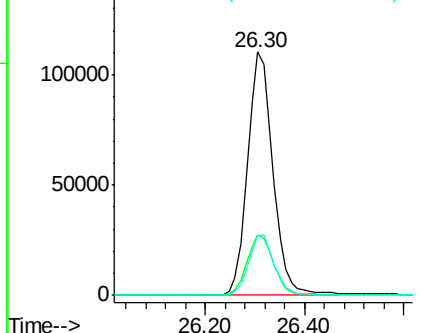
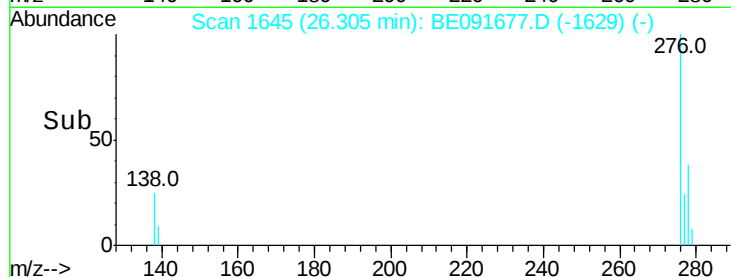
| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 26.0  | 23.4       | 35.2       |
| 277     | 25.0  | 19.8       | 29.8       |

Manual Integrations  
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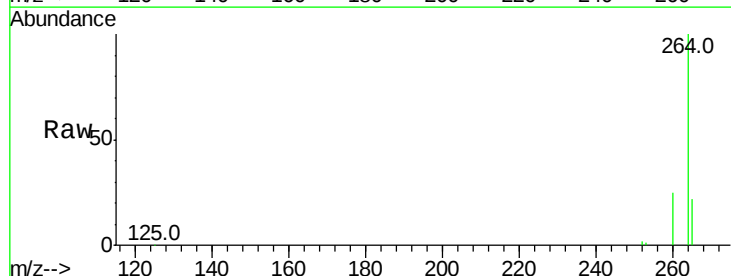


Abundance Ion 276.00 (275.70 to 276.70): E  
150000  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

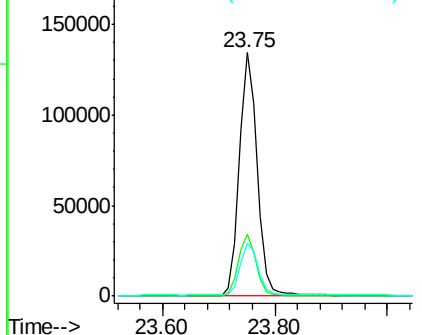
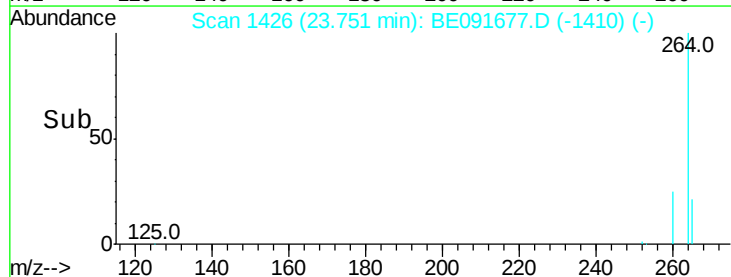


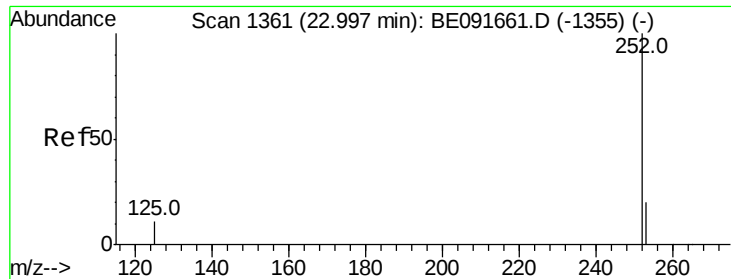
#35  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.75 min Scan# 1426  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 25.2  | 20.0       | 30.0       |
| 265     | 21.6  | 17.5       | 26.3       |



Abundance Ion 264.00 (263.70 to 264.70): E  
150000  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





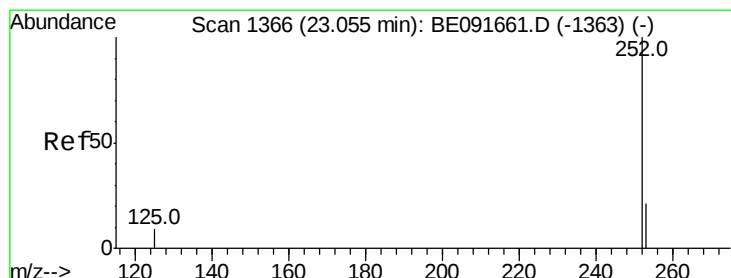
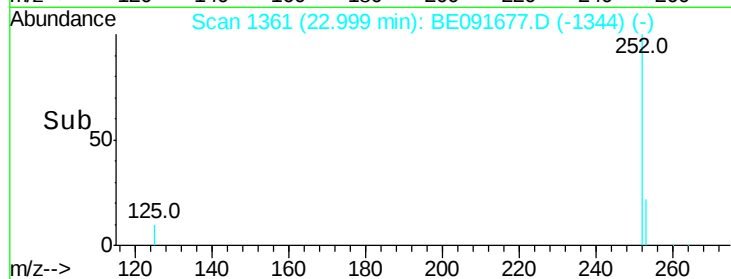
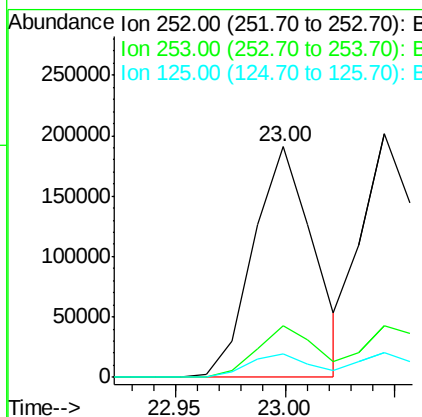
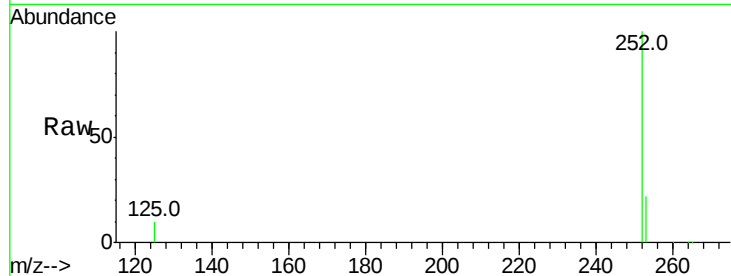
#36  
Benzo(b)fluoranthene  
Concen: 5.52 ng m  
RT: 23.00 min Scan# 1361  
Delta R.T. 0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.4  | 26.0  |
| 125     | 10.1  | 10.2  | 15.2  |

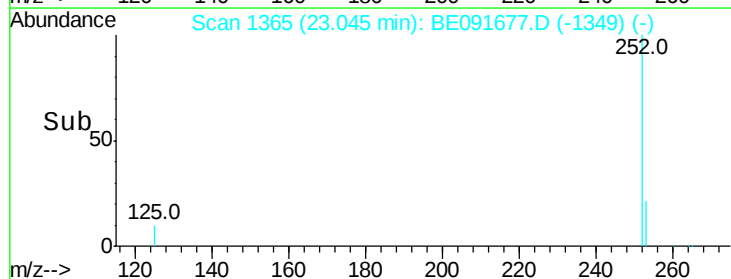
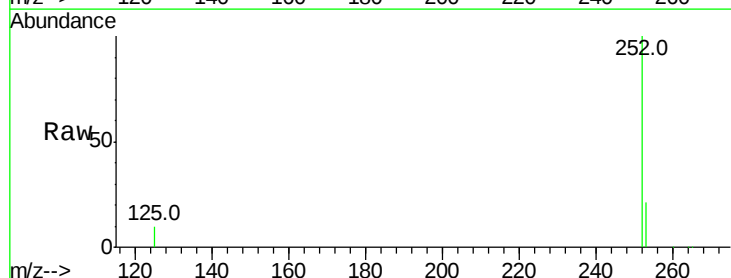
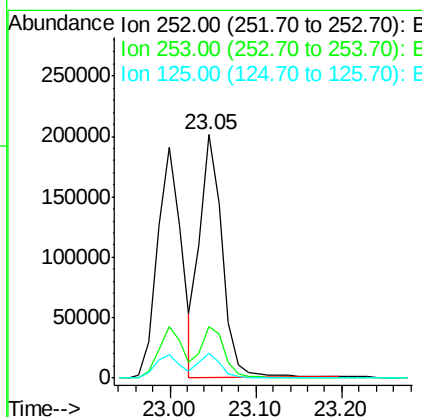
Manual Integrations  
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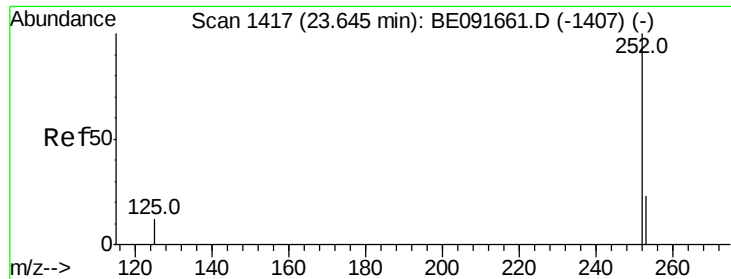
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#37  
Benzo(k)fluoranthene  
Concen: 5.13 ng  
RT: 23.05 min Scan# 1365  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.2  | 17.6  | 26.4  |
| 125     | 10.3  | 9.9   | 14.9  |





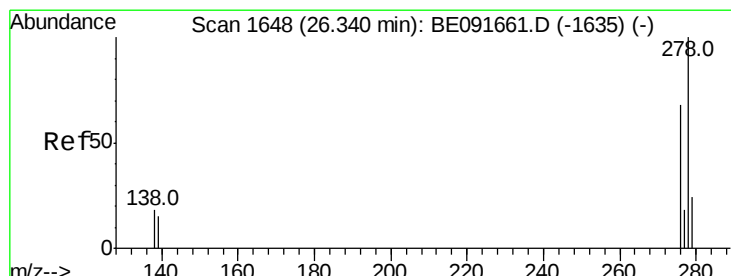
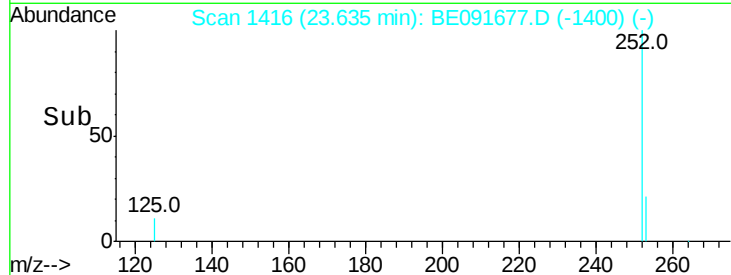
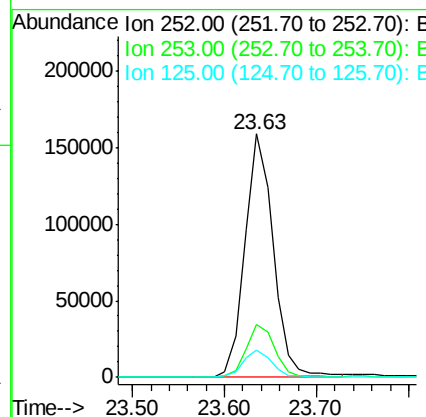
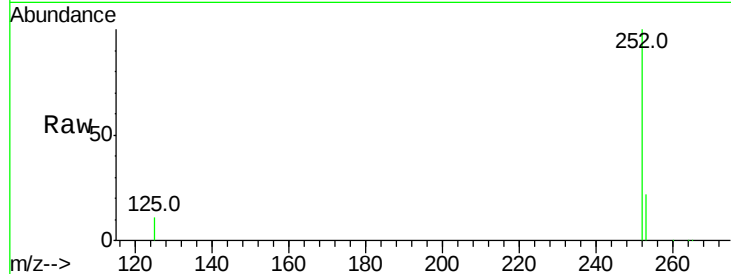
#38  
Benzo(a)pyrene  
Concen: 5.43 ng  
RT: 23.63 min Scan# 1416  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 337696 |       |       |
| 253     | 21.6  | 18.1   | 27.1  |       |
| 125     | 11.2  | 11.0   | 16.4  |       |

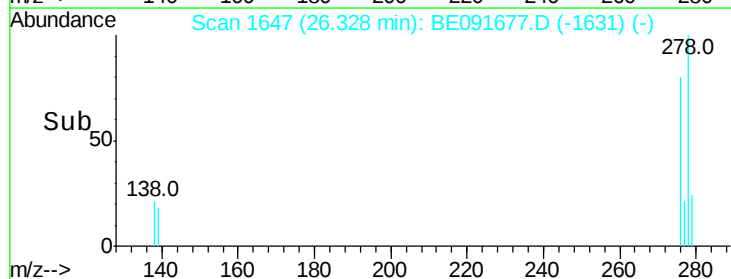
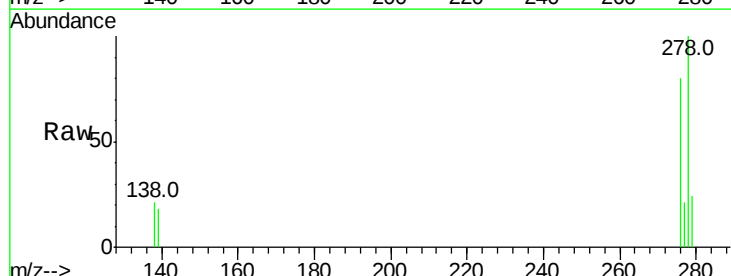
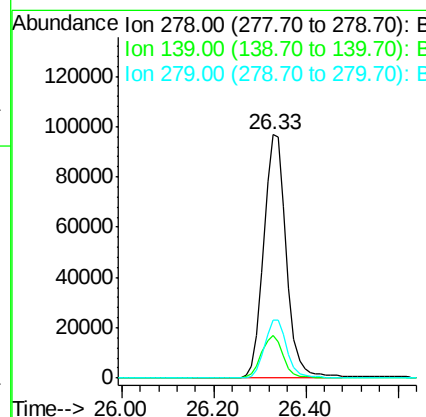
Manual Integrations  
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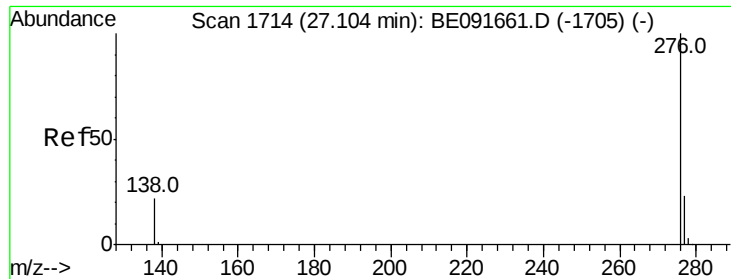
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#39  
Dibenzo(a,h)anthracene  
Concen: 5.43 ng  
RT: 26.33 min Scan# 1647  
Delta R.T. -0.01 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 278     | 100   | 329634 |       |       |
| 139     | 17.6  | 16.0   | 24.0  |       |
| 279     | 23.7  | 19.4   | 29.2  |       |





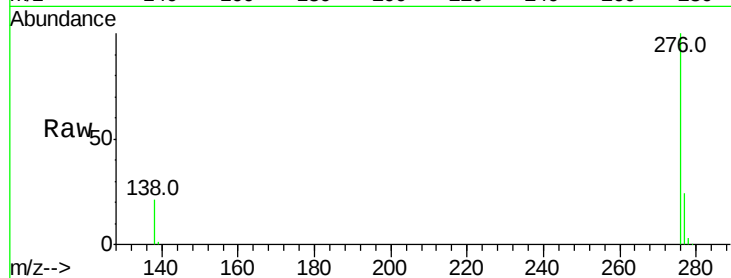
#40  
Benzo(a,h,i)perylene  
Concen: 5.29 ng  
RT: 27.10 min Scan# 1714  
Delta R.T. -0.00 min  
Lab File: BE091677.D  
Acq: 18 Apr 2016 23:32

Instrument :  
BNA\_E  
ClientSampleId :  
BCR08MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 23.9  | 18.6       | 28.0  |
| 138     | 20.8  | 20.4       | 30.6  |

Manual Integrations  
APPROVED

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

