

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020516\  
 Data File : BF084897.D  
 Acq On : 6 Feb 2016 8:32  
 Operator : SJ/IZ  
 Sample : H1312-05RX  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B005(5-7)RX

Manual Integrations  
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 2/8/2016 3:03:29 PM

Quant Time: Feb 08 00:53:49 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.66  | 152  | 175733   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.95  | 136  | 704882   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.70  | 164  | 294973   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.17 | 188  | 501034   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12            | 13.80 | 240  | 345204   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.17 | 264  | 324086   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.25  | 112  | 27723    | 2.46  | ng    | -0.02    |
| 7) Phenol-d6                | 6.30  | 99   | 495629   | 35.44 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.23  | 82   | 834127   | 66.66 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 0.00  | 330  | 0        | 0.00  | ng    |          |
| 44) 2-Fluorobiphenyl        | 9.02  | 172  | 1366264  | 74.98 | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.76 | 244  | 1124962  | 73.85 | ng    | -0.03    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 7.96  | 128  | 92558    | 2.62  | ng    | 98       |
| 49) Dimethylphthalate       | 9.42  | 163  | 239194   | 10.65 | ng    | # 90     |
| 70) Phenanthrene            | 11.20 | 178  | 400734   | 14.42 | ng    | 99       |
| 71) Anthracene              | 11.24 | 178  | 84803    | 3.03  | ng    | 99       |
| 74) Fluoranthene            | 12.37 | 202  | 273804   | 9.73  | ng    | 97       |
| 77) Pyrene                  | 12.60 | 202  | 250552   | 9.48  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.79 | 228  | 116106   | 5.42  | ng    | 98       |
| 82) Chrysene                | 13.83 | 228  | 81844    | 3.94  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.44 | 276  | 37663    | 2.30  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 14.80 | 252  | 88624m   | 4.07  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.81 | 252  | 36369m   | 2.02  | ng    |          |
| 89) Benzo(a)pyrene          | 15.12 | 252  | 70858    | 3.82  | ng    | 96       |
| 91) Benzo(a,h,i)perylene    | 16.82 | 276  | 33175    | 2.11  | ng    | 96       |

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

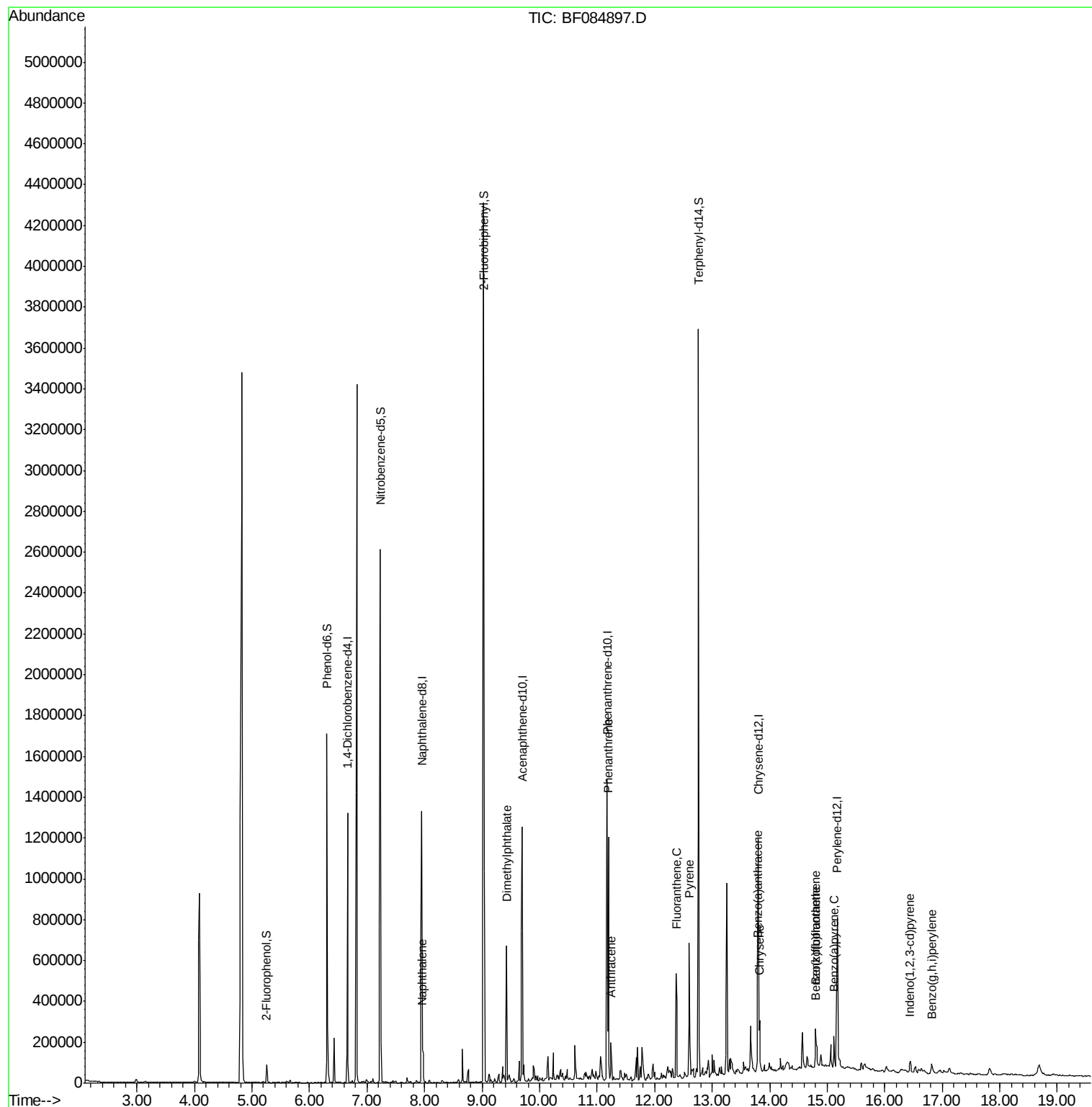
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020516\  
Data File : BF084897.D  
Acq On : 6 Feb 2016 8:32  
Operator : SJ/IZ  
Sample : H1312-05RX  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

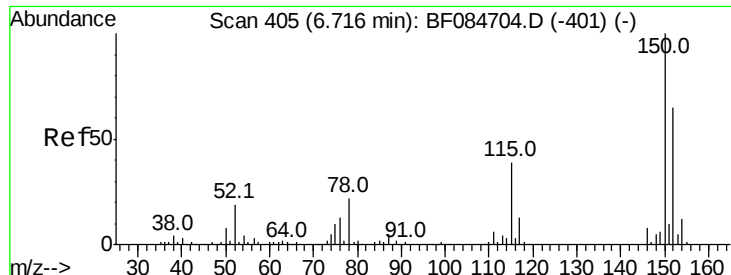
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B005(5-7)RX

Manual Integrations  
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Quant Time: Feb 08 00:53:49 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 03 14:16:01 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA\_F

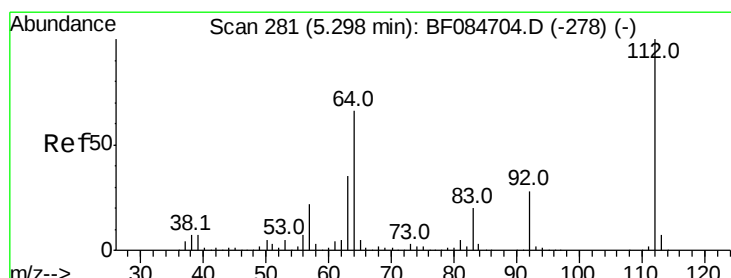
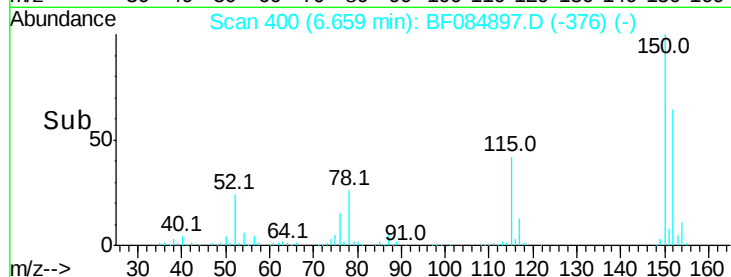
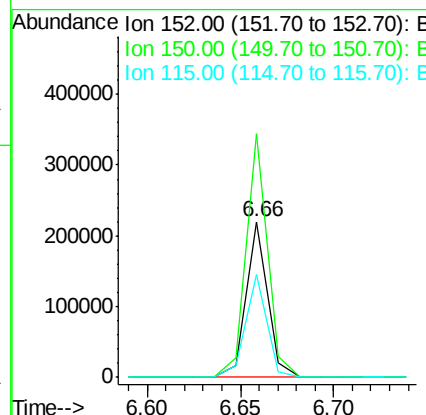
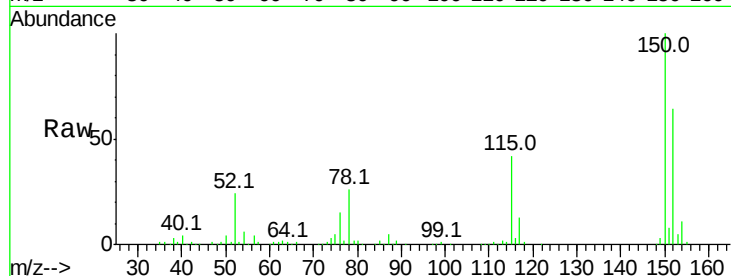
ClientSampleId :

SUP-B005(5-7)RX

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 175733 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 156.4 | 123.0 | 184.4  |
| 115       | 65.9  | 51.4  | 77.2   |

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#5

2-Fluorophenol

Concen: 2.46 ng

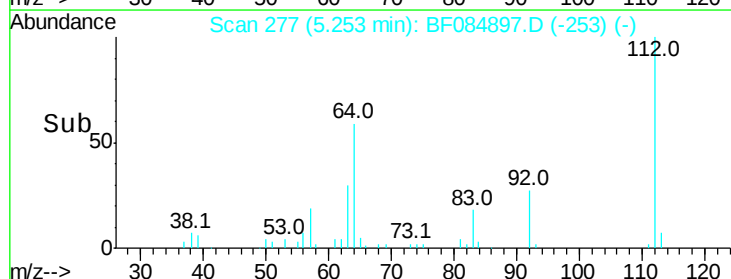
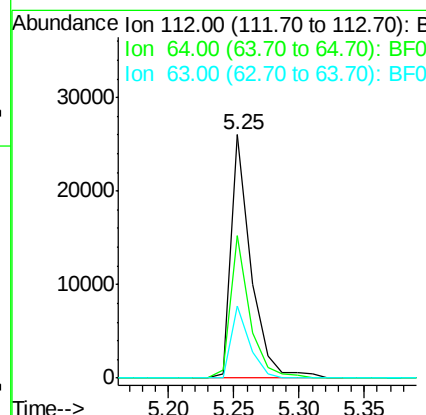
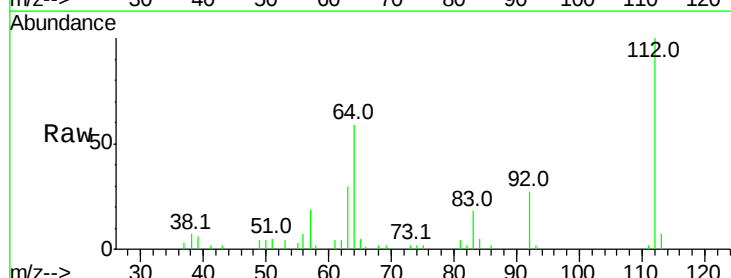
RT: 5.25 min Scan# 277

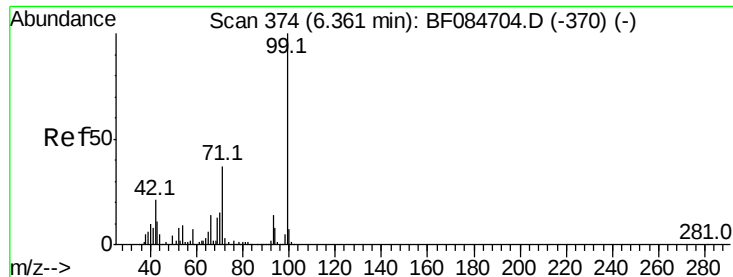
Delta R.T. -0.02 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 27723 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 58.6  | 36.6  | 55.0# |
| 63        | 29.9  | 19.4  | 29.0# |





#7

Phenol-d6

Concen: 35.44 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA\_F

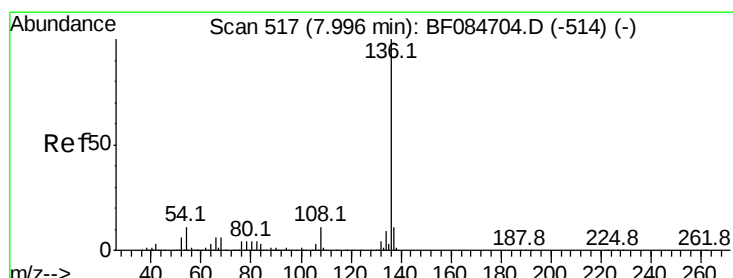
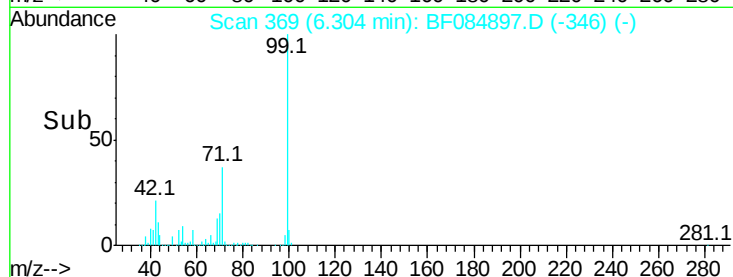
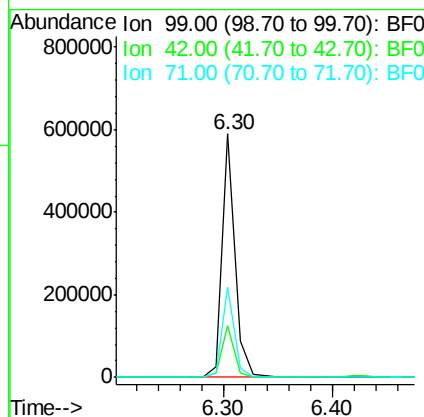
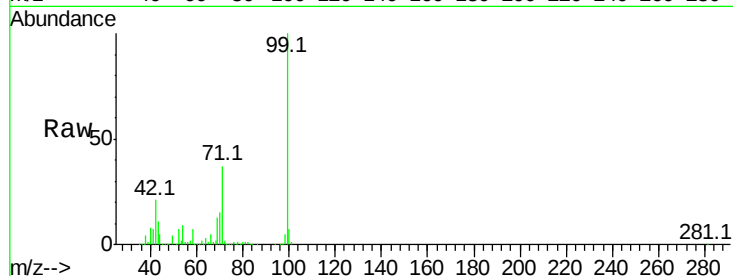
ClientSampleId :

SUP-B005(5-7)RX

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 99      | 100   | 495629 |       |       |
| 42      | 21.1  | 12.8   | 19.2# |       |
| 71      | 36.9  | 30.9   | 46.3  |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

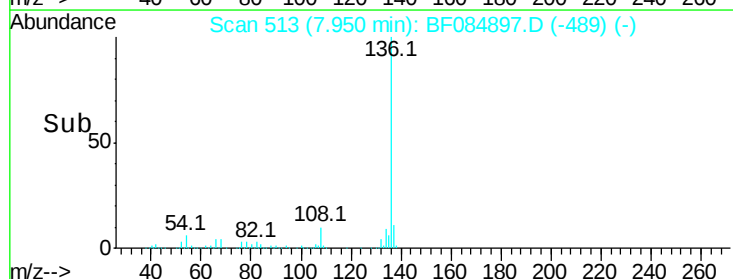
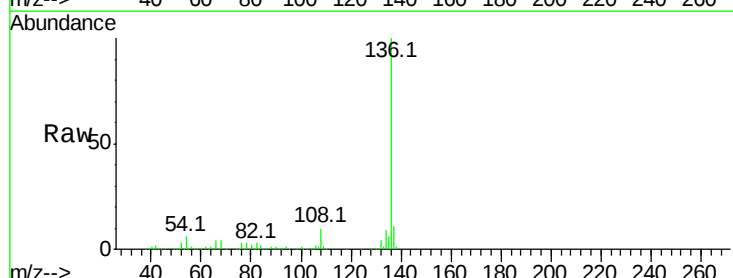
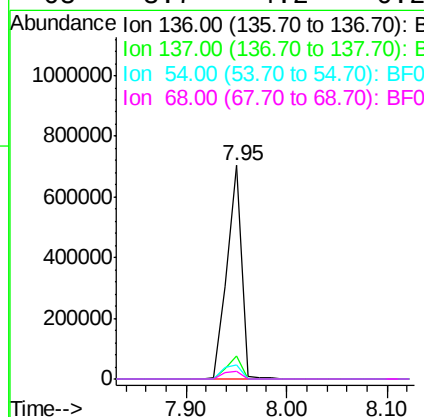
RT: 7.95 min Scan# 513

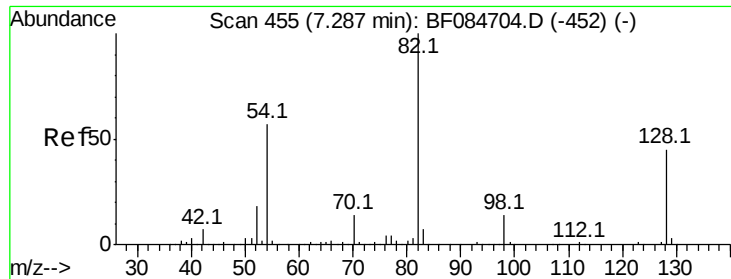
Delta R.T. -0.02 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 704882 |       |       |
| 137     | 10.9  | 8.7    | 13.1  |       |
| 54      | 6.3   | 5.8    | 8.8   |       |
| 68      | 3.7   | 4.2    | 6.2#  |       |





#23

Nitrobenzene-d5

Concen: 66.66 ng

RT: 7.23 min Scan# 450

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA\_F

ClientSampleId :

SUP-B005(5-7)RX

Tot Ion: 82 Resp: 834127  
Ion Ratio Lower Upper

82 100

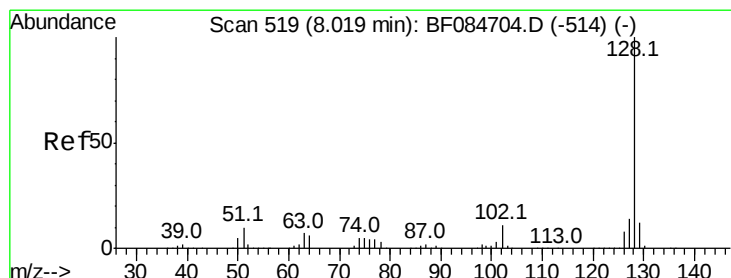
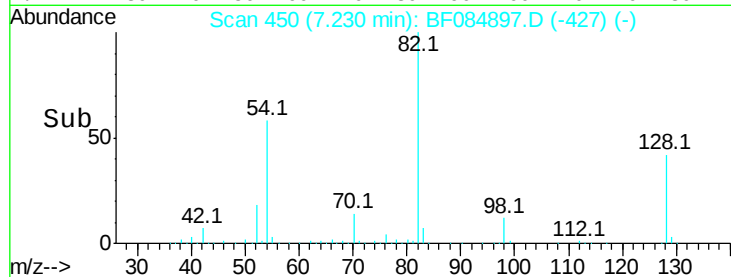
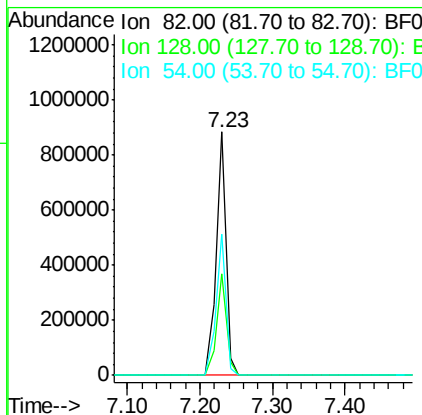
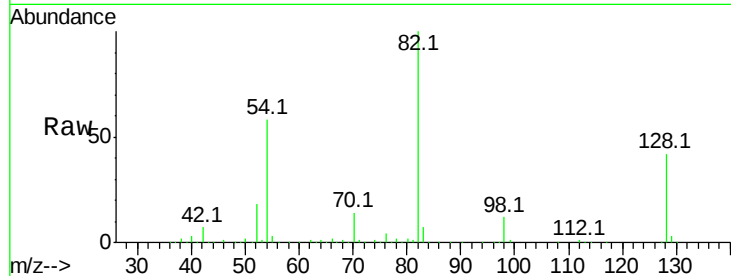
128 41.9 34.6 51.8

54 57.8 38.4 57.6#

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#31

Naphthalene

Concen: 2.62 ng

RT: 7.96 min Scan# 514

Delta R.T. -0.03 min

Lab File: BF084897.D

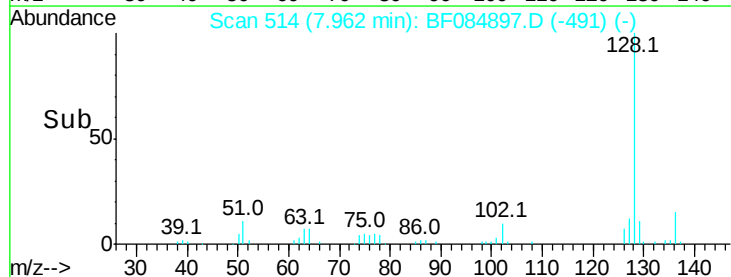
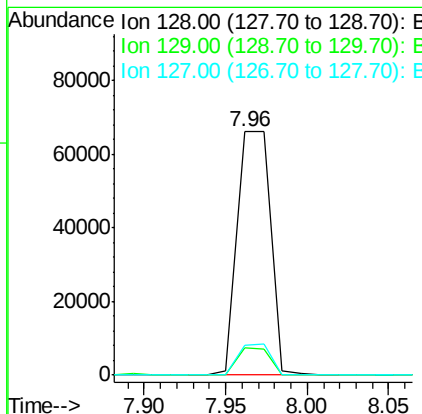
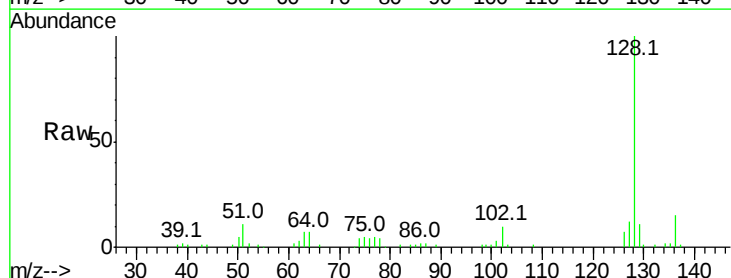
Acq: 6 Feb 2016 8:32

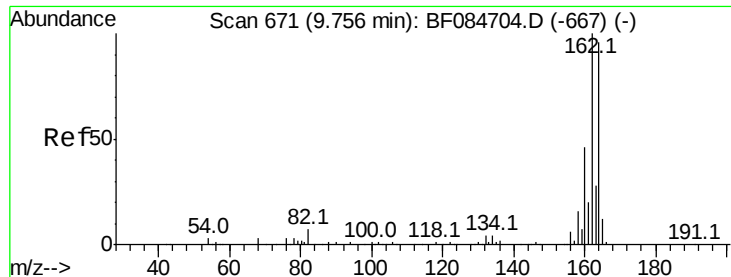
Tgt Ion: 128 Resp: 92558  
Ion Ratio Lower Upper

128 100

129 11.4 9.1 13.7

127 12.3 11.1 16.7





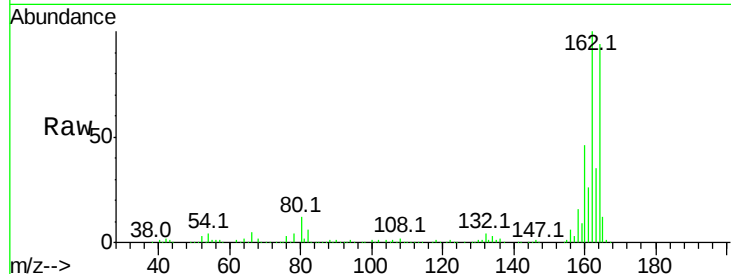
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.70 min Scan# 666  
 Delta R.T. -0.03 min  
 Lab File: BF084897.D  
 Acq: 6 Feb 2016 8:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B005(5-7)RX

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 164     | 100   |            |       |
| 162     | 106.8 | 85.1       | 127.7 |
| 160     | 48.9  | 37.5       | 56.3  |

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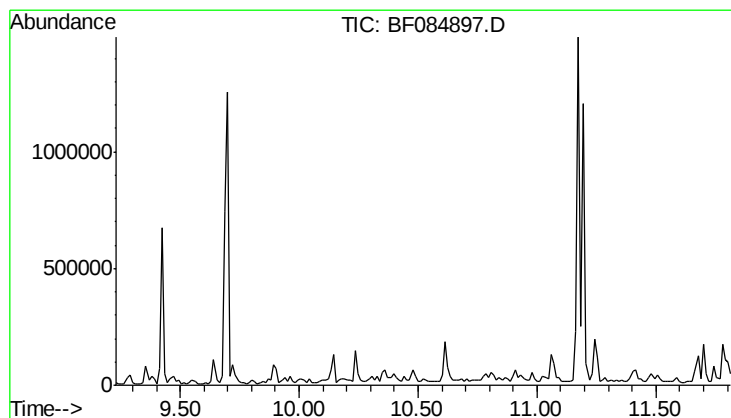
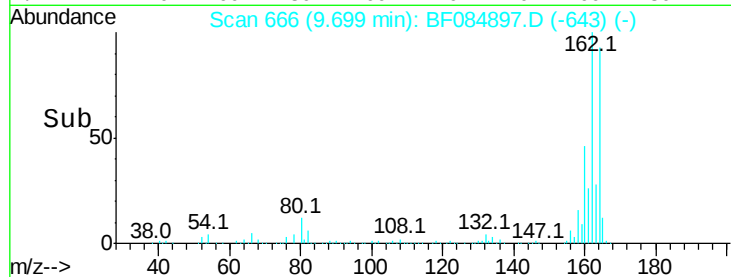
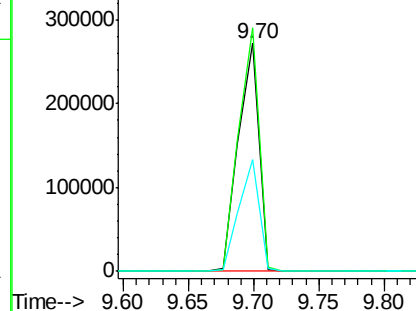


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

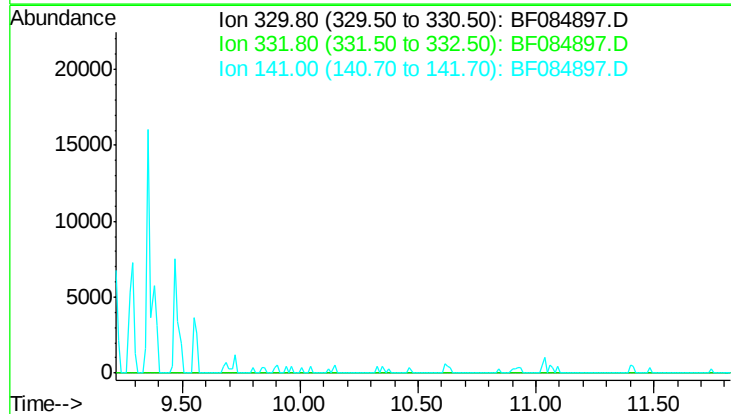
Ion 160.00 (159.70 to 160.70): E

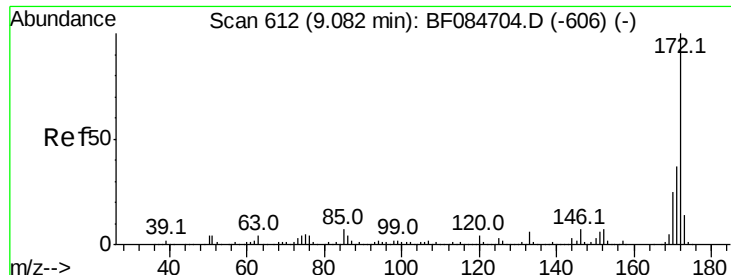


#41  
 2,4,6-Tribromophenol  
 Concen: 0.00 ng  
 Expected RT: 10.52 min

Lab File: BF084897.D  
 Acq: 6 Feb 2016 8:32

| Tgt Ion | Exp Ratio |
|---------|-----------|
| 330     | 100       |
| 332     | 95.7      |
| 141     | 34.7      |





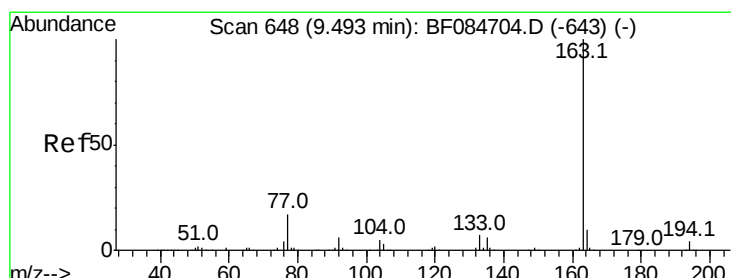
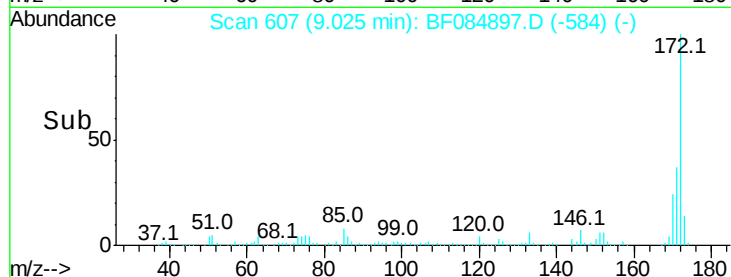
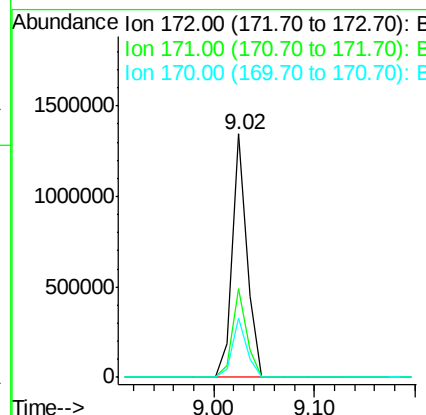
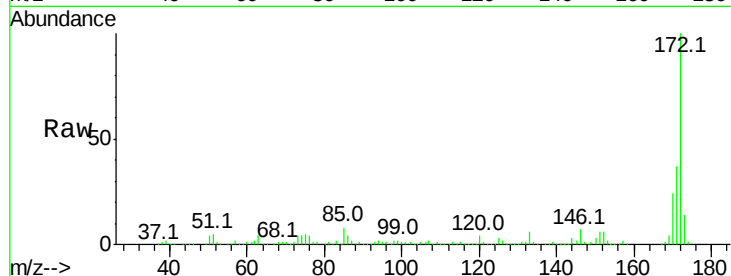
#44  
2-Fluorobiphenyl  
Concen: 74.98 ng  
RT: 9.02 min Scan# 607  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B005(5-7)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 28.9  | 43.3  |
| 170     | 24.5  | 18.6  | 27.8  |

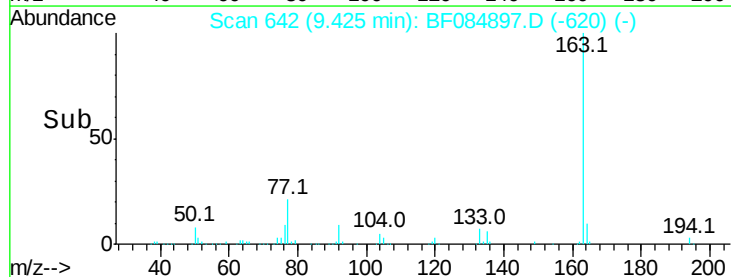
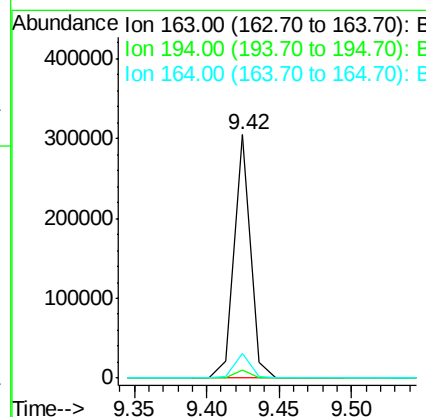
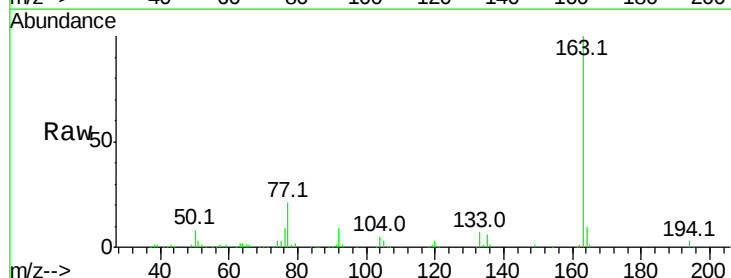
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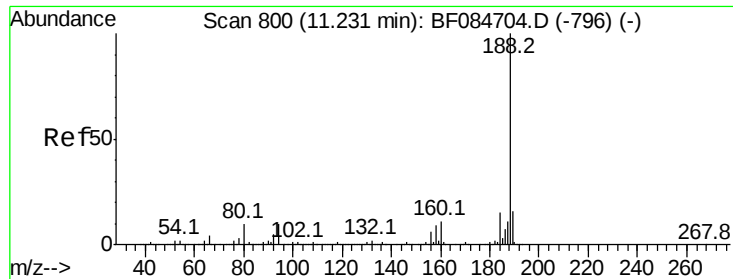
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#49  
Dimethylphthalate  
Concen: 10.65 ng  
RT: 9.42 min Scan# 642  
Delta R.T. -0.05 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 8.0   | 12.0# |
| 164     | 10.2  | 8.0   | 12.0  |





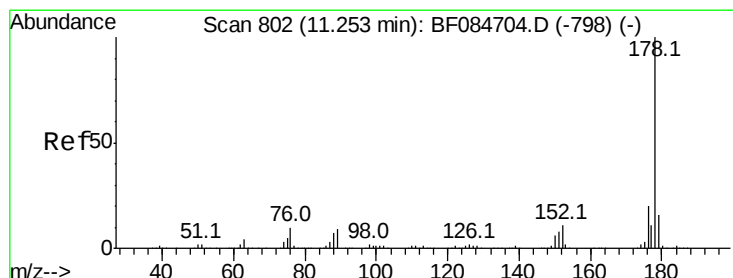
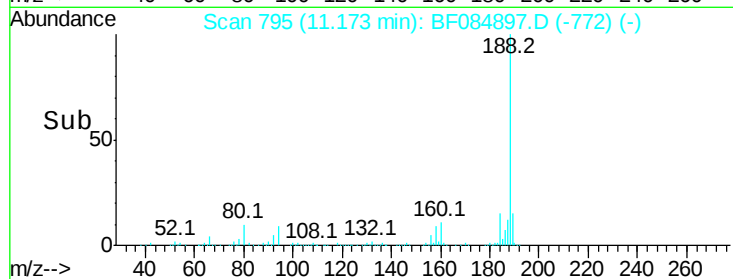
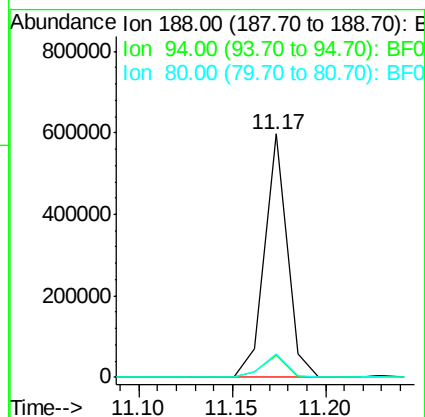
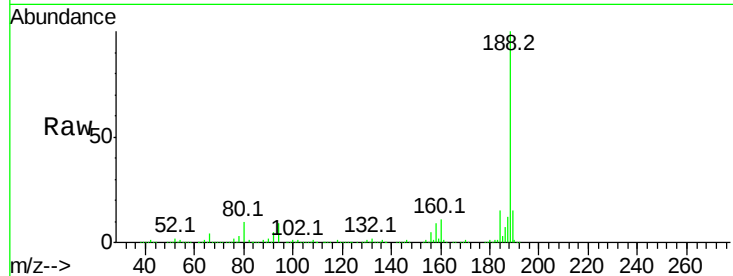
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.17 min Scan# 795  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B005(5-7)RX

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.9   | 9.0        | 13.4# |
| 80      | 9.5   | 9.6        | 14.4# |

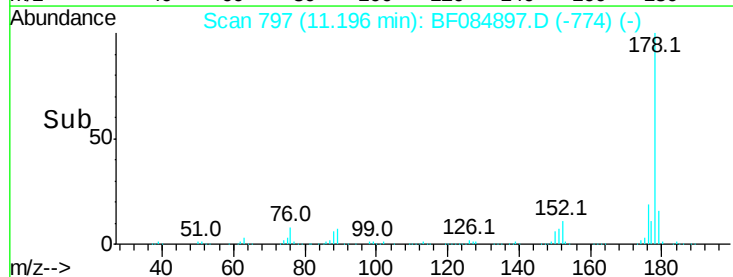
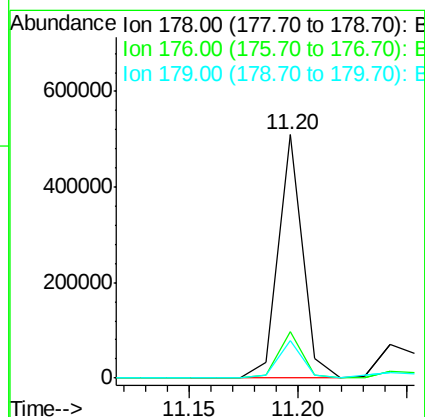
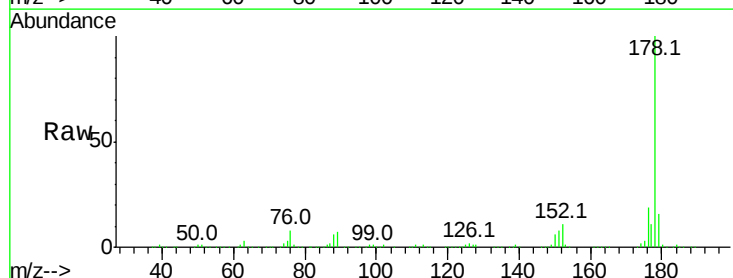
Manual Integrations  
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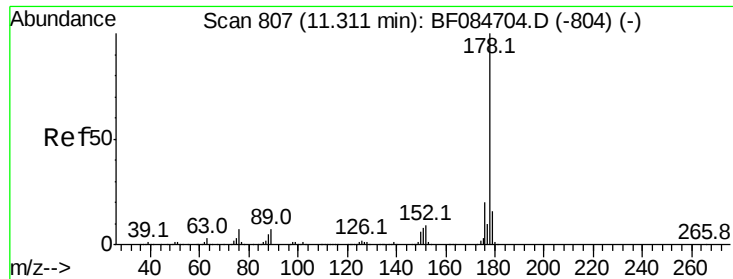
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#70  
Phenanthrene  
Concen: 14.42 ng  
RT: 11.20 min Scan# 797  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.2  | 15.3       | 22.9  |
| 179     | 15.6  | 12.0       | 18.0  |





#71

Anthracene

Concen: 3.03 ng

RT: 11.24 min Scan# 801

Delta R.T. -0.05 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA\_F

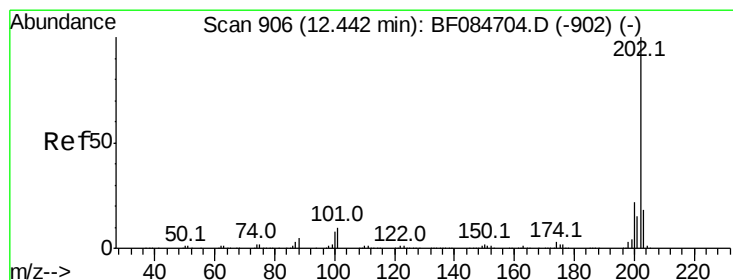
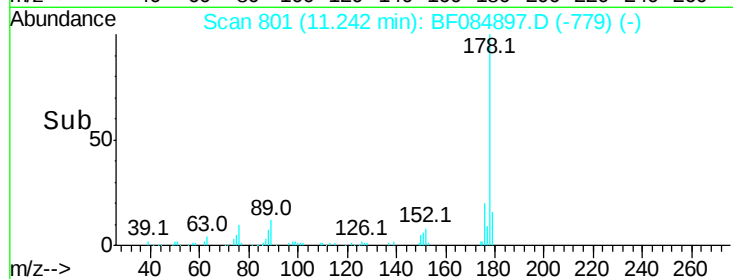
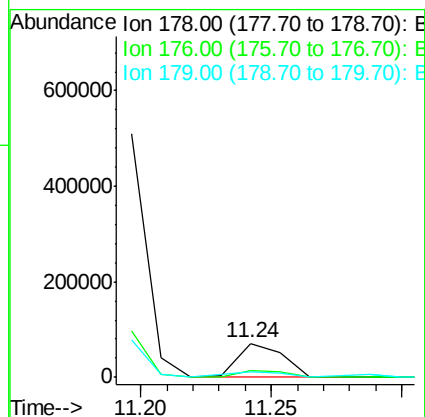
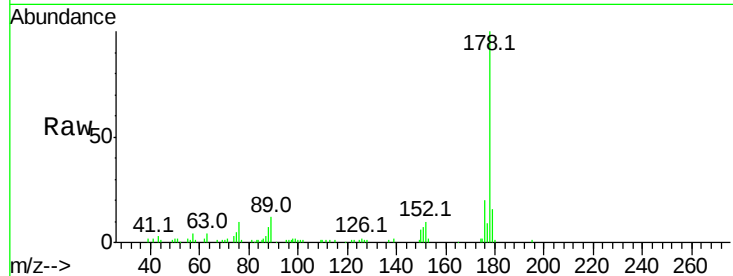
ClientSampleId :

SUP-B005(5-7)RX

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 84803 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.6  | 15.4  | 23.0  |
| 179       | 16.1  | 12.5  | 18.7  |

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#74

Fluoranthene

Concen: 9.73 ng

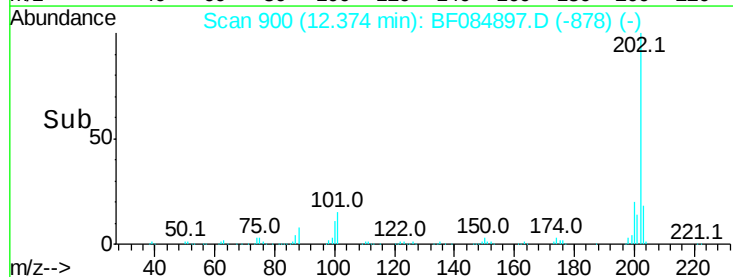
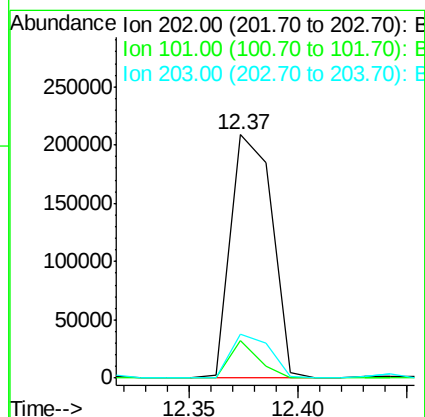
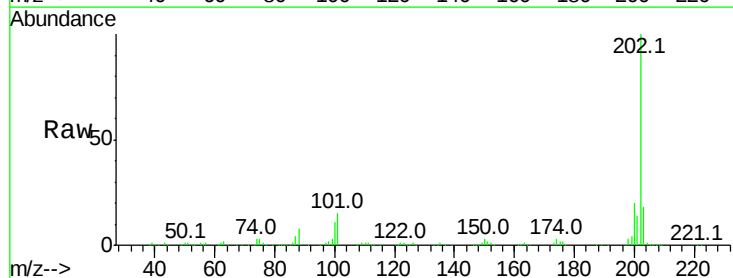
RT: 12.37 min Scan# 900

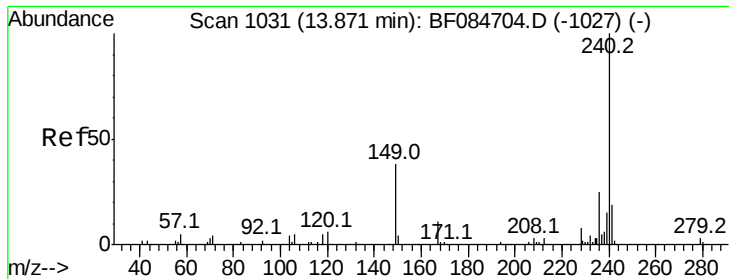
Delta R.T. -0.05 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 273804 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 15.2  | 0.0   | 32.8   |
| 203       | 17.9  | 0.0   | 37.9   |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA\_F

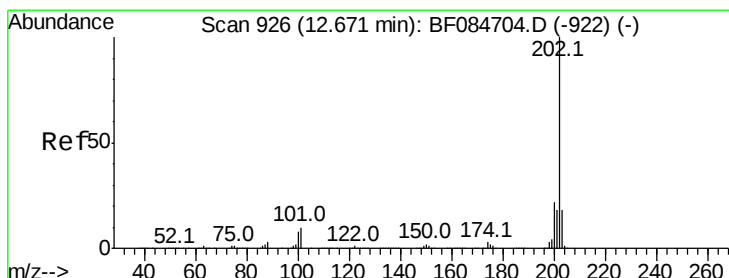
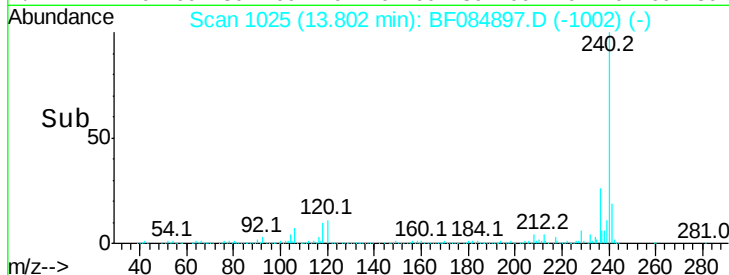
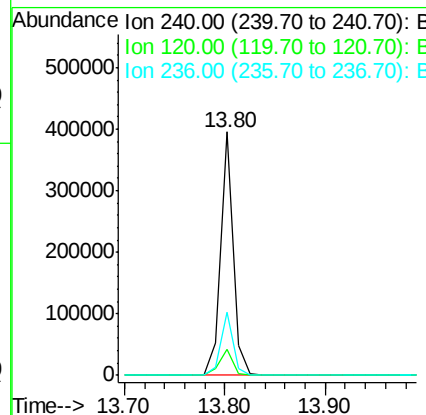
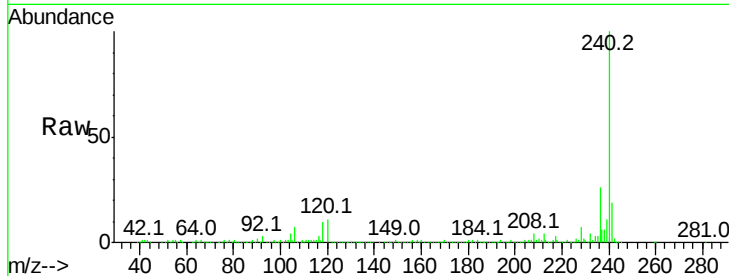
ClientSampleId :

SUP-B005(5-7)RX

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 345204 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.7  | 9.5   | 14.3   |
| 236       | 26.1  | 20.6  | 31.0   |

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#77

Pyrene

Concen: 9.48 ng

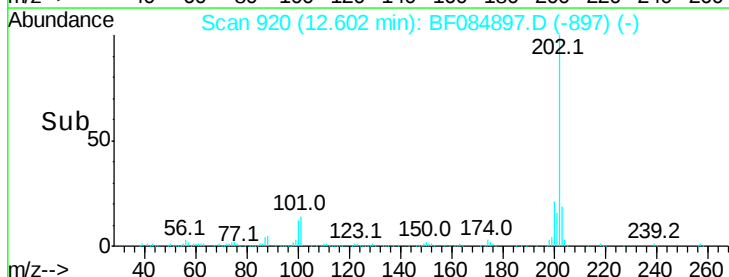
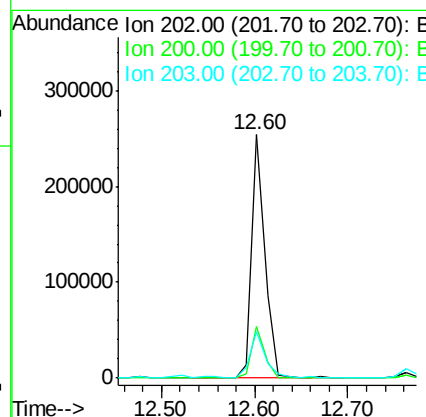
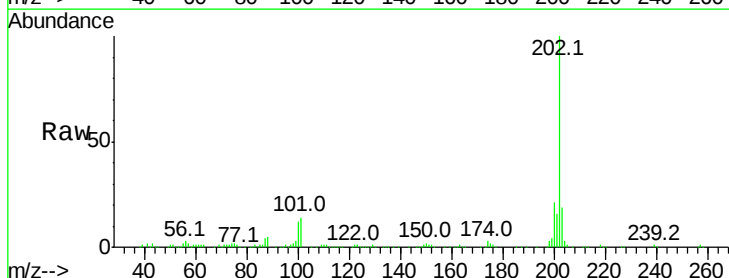
RT: 12.60 min Scan# 920

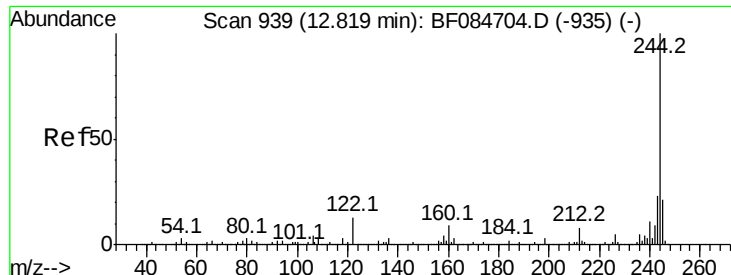
Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 250552 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.0  | 17.2  | 25.8   |
| 203       | 19.1  | 14.3  | 21.5   |





#78

Terphenyl-d14

Concen: 73.85 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA\_F

ClientSampleId :

SUP-B005(5-7)RX

Tot Ion:244 Resp: 1124962

Ion Ratio Lower Upper

244 100

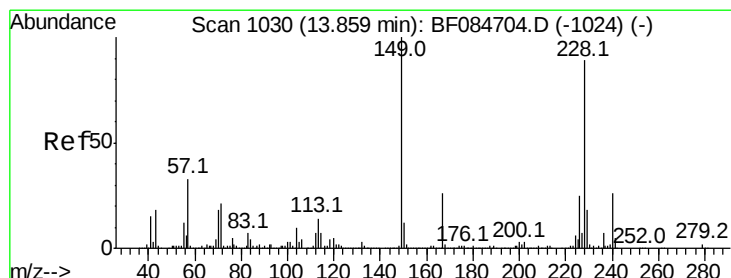
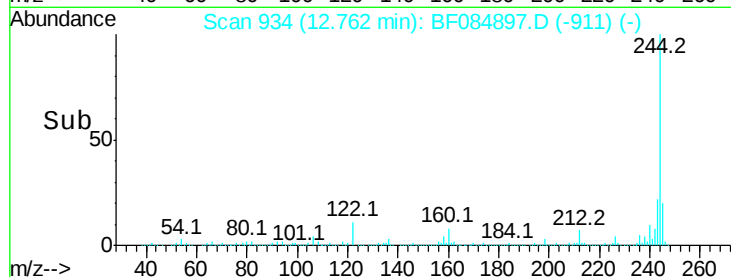
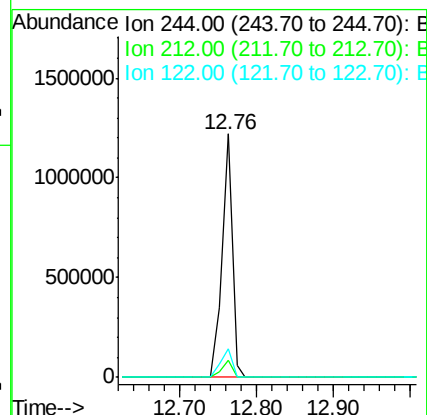
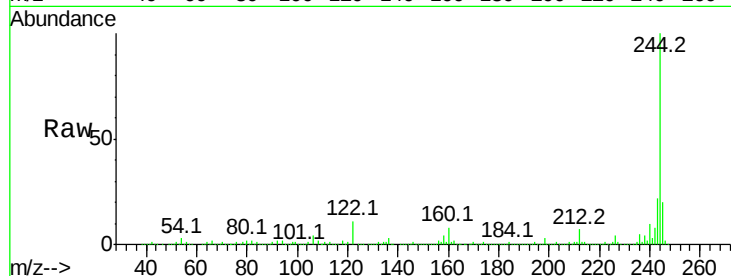
212 7.3 5.7 8.5

122 11.5 7.4 11.0#

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#80

Benzo(a)anthracene

Concen: 5.42 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

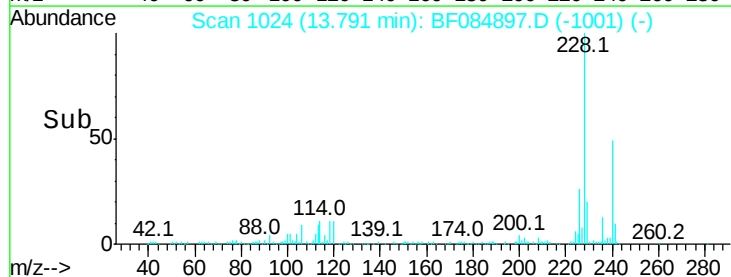
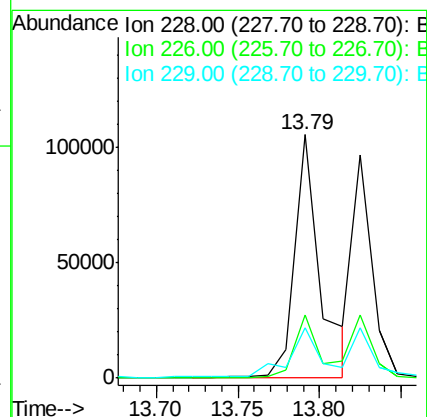
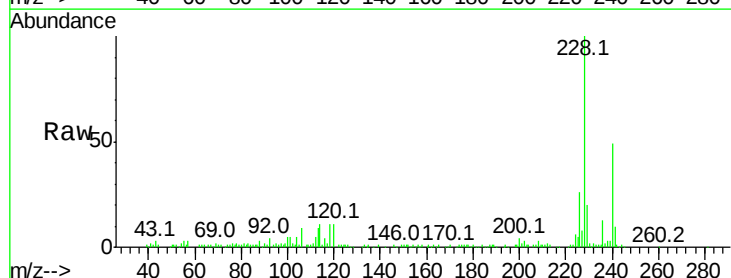
Tgt Ion:228 Resp: 116106

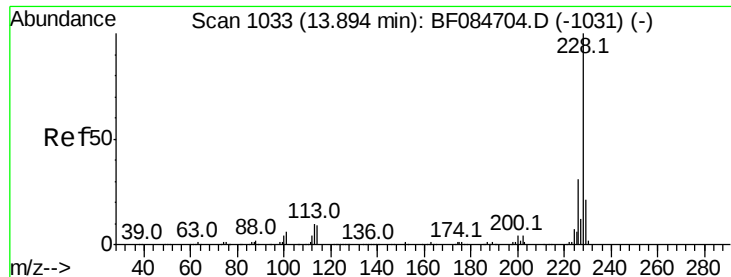
Ion Ratio Lower Upper

228 100

226 26.2 21.8 32.6

229 20.5 15.8 23.8





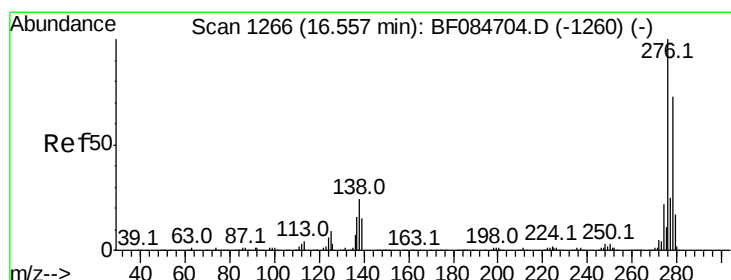
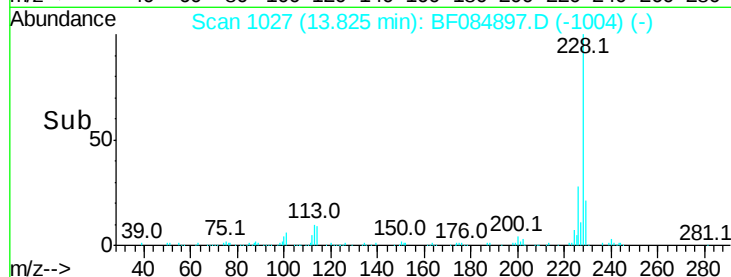
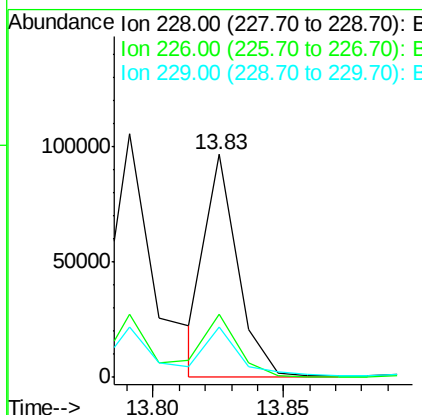
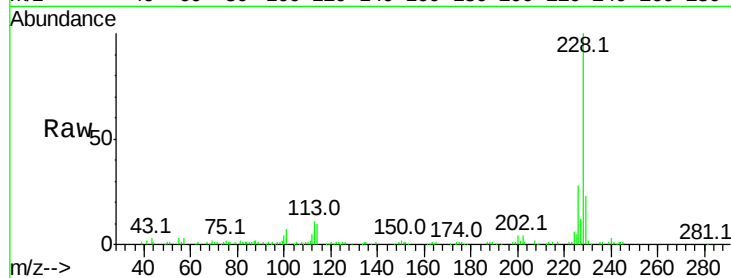
#82  
Chrysene  
Concen: 3.94 ng  
RT: 13.83 min Scan# 1027  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B005(5-7)RX

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 81844 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.5  | 24.3  | 36.5  |
| 229       | 22.5  | 16.1  | 24.1  |

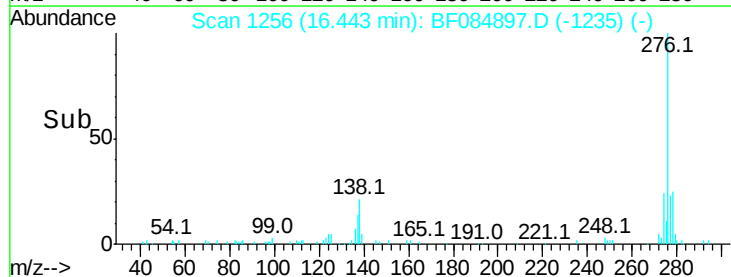
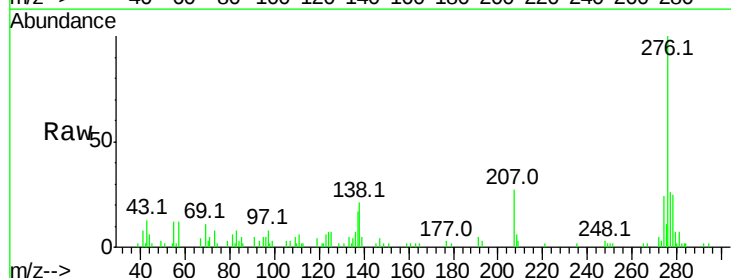
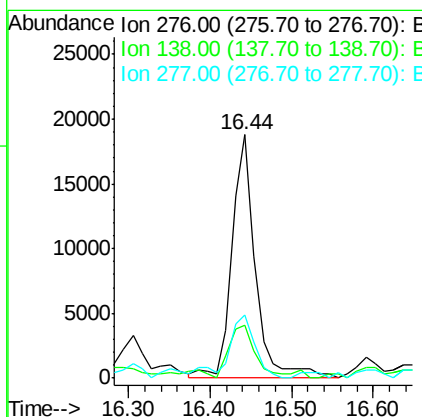
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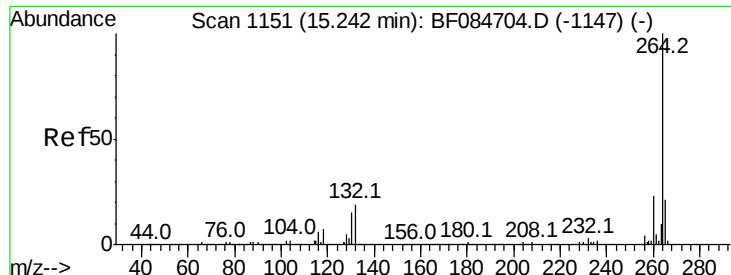
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.30 ng  
RT: 16.44 min Scan# 1256  
Delta R.T. -0.06 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 37663 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.6  | 20.6  | 30.8  |
| 277       | 29.4  | 20.1  | 30.1  |





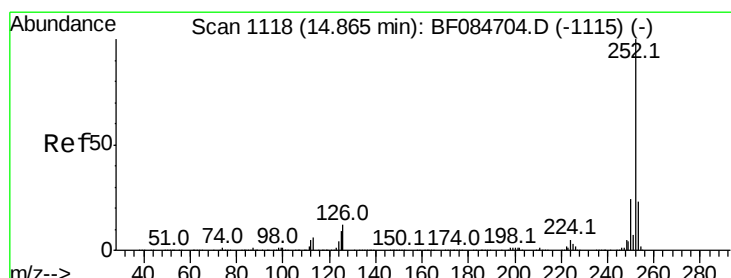
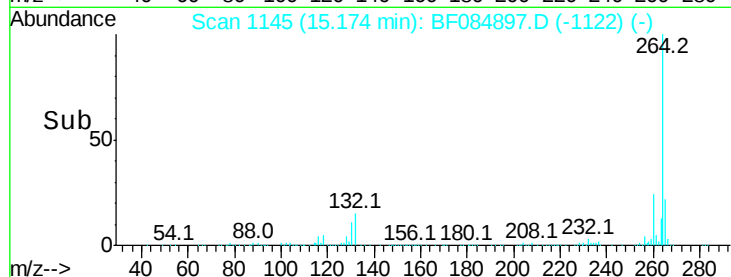
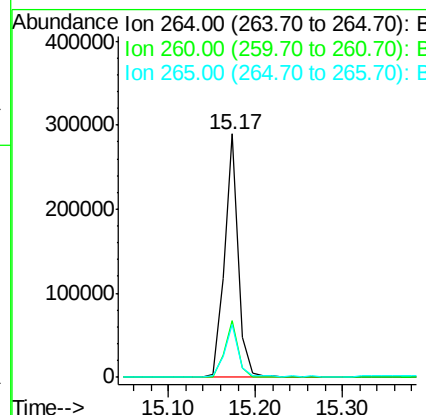
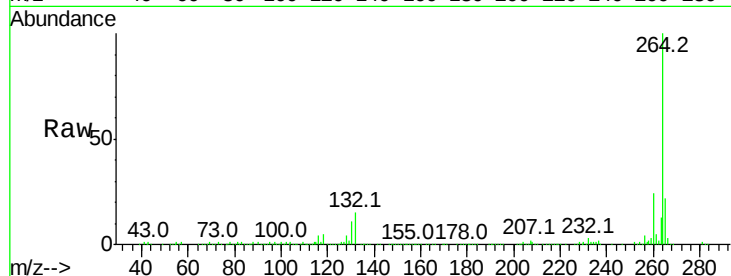
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.17 min Scan# 1145  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B005(5-7)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.4  | 29.2  |
| 265     | 21.7  | 17.8  | 26.6  |

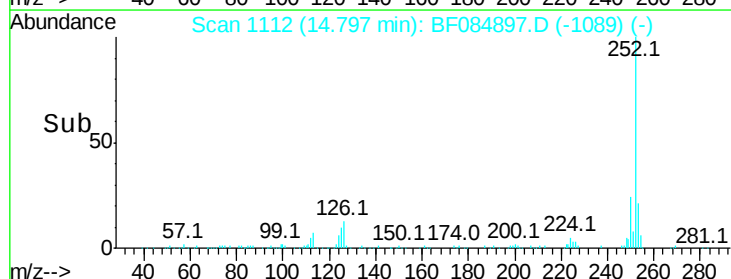
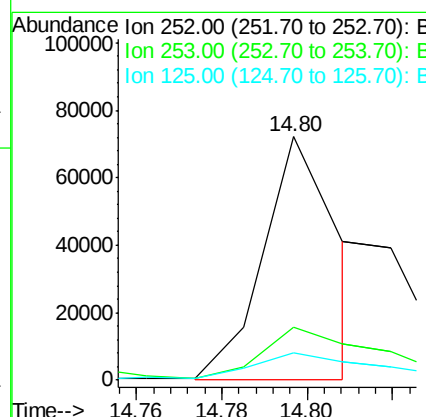
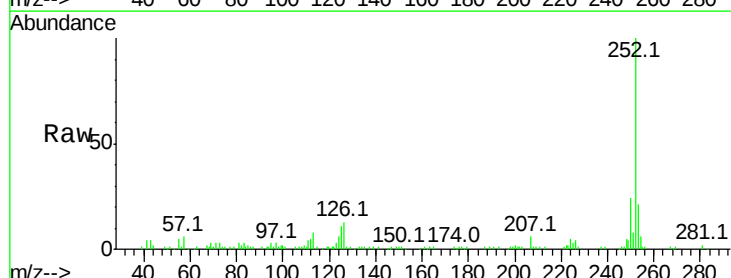
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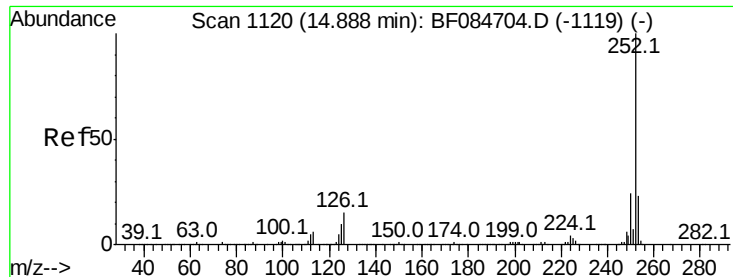
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#87  
Benzo(b)fluoranthene  
Concen: 4.07 ng m  
RT: 14.80 min Scan# 1112  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 17.3  | 25.9  |
| 125     | 11.1  | 6.5   | 9.7#  |





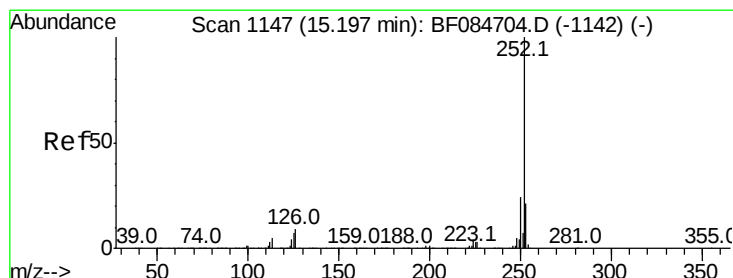
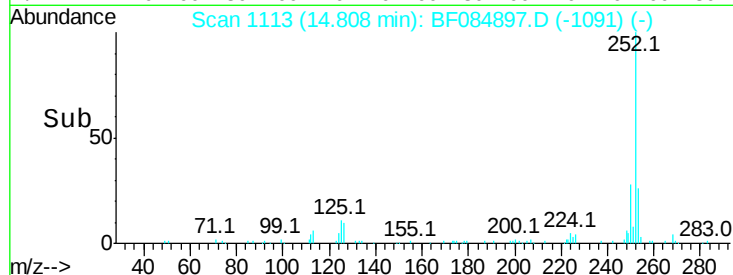
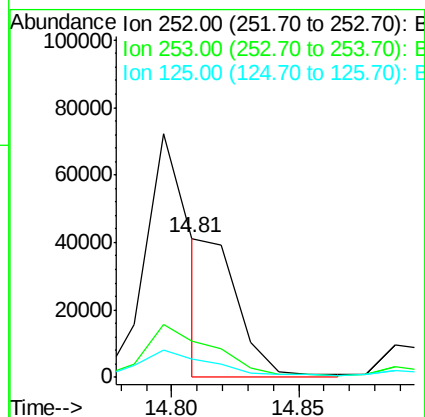
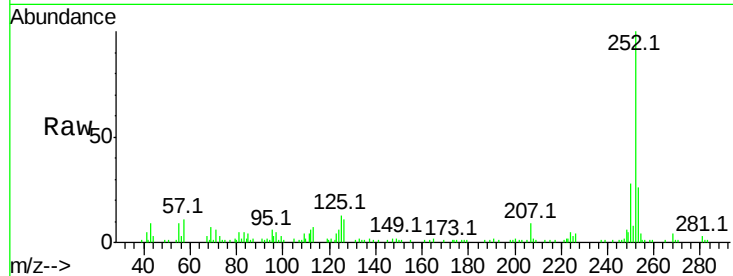
#88  
Benzo(k)fluoranthene  
Concen: 2.02 ng/mL  
RT: 14.81 min Scan# 1113  
Delta R.T. -0.05 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

Instrument :  
BNA\_F  
Client Sample ID :  
SUP-B005(5-7)RX

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 26.0  | 18.1       | 27.1       |
| 125     | 13.0  | 9.0        | 13.6       |

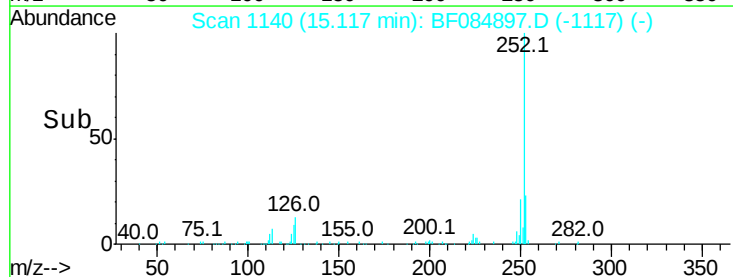
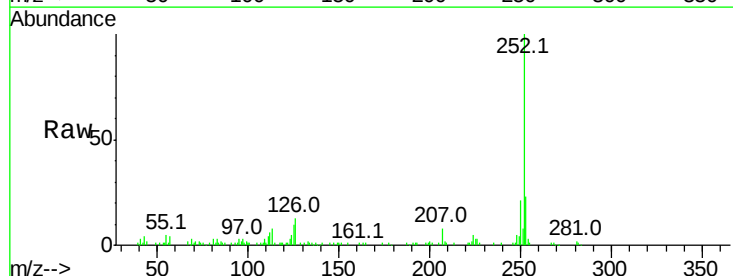
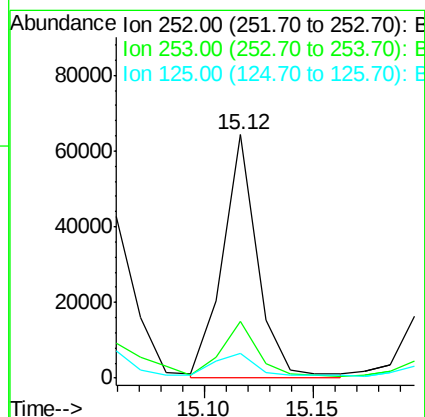
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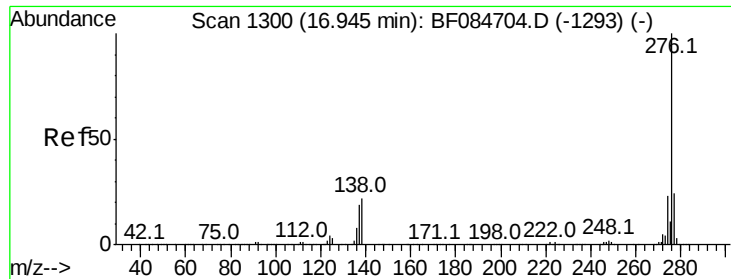
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#89  
Benzo(a)pyrene  
Concen: 3.82 ng/mL  
RT: 15.12 min Scan# 1140  
Delta R.T. -0.03 min  
Lab File: BF084897.D  
Acq: 6 Feb 2016 8:32

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.4  | 17.3       | 25.9       |
| 125     | 10.3  | 7.0        | 10.4       |





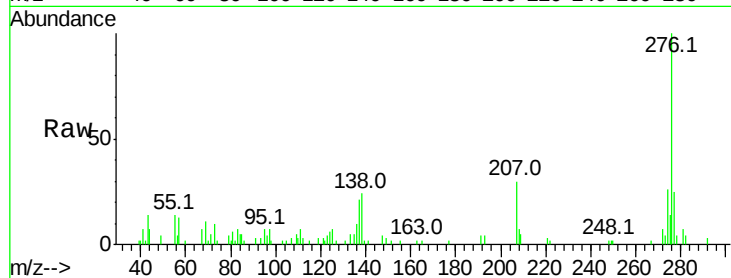
#91  
 Benzo(a,h,i)perylene  
 Concen: 2.11 ng  
 RT: 16.82 min Scan# 1289  
 Delta R.T. -0.07 min  
 Lab File: BF084897.D  
 Acq: 6 Feb 2016 8:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B005(5-7)RX

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 276  | Resp: | 33175 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 24.8 | 18.8  | 28.2  |
| 138       | 24.4 | 17.8  | 26.6  |

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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

