

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
 Data File : BF087067.D  
 Acq On : 15 May 2016 14:01  
 Operator : UM/SJ  
 Sample : H2968-06 2X  
 Misc :  
 ALS Vial : 86 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP42-4.5FT

Manual Integrations  
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 5/16/2016 6:59:05 PM

Quant Time: May 16 07:42:23 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 16 05:03:47 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.62  | 152  | 63680    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.90  | 136  | 260007   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.64  | 164  | 107341   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.12 | 188  | 174112   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.75 | 240  | 166554   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.12 | 264  | 154740   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.20  | 112  | 381016   | 101.33 | ng    | 0.00     |
| 7) Phenol-d6                | 6.28  | 99   | 468814   | 93.29  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.19  | 82   | 285855   | 55.20  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.43 | 330  | 80802    | 71.10  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.98  | 172  | 424290   | 66.43  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.71 | 244  | 344482   | 43.88  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 48) Acenaphthylene          | 9.51  | 152  | 25430    | 2.58   | ng    | 99       |
| 49) Dimethylphthalate       | 9.38  | 163  | 66792    | 8.16   | ng    | 99       |
| 70) Phenanthrene            | 11.14 | 178  | 61663    | 6.64   | ng    | 98       |
| 71) Anthracene              | 11.20 | 178  | 29137    | 3.07   | ng    | 97       |
| 74) Fluoranthene            | 12.33 | 202  | 260818   | 27.29  | ng    | 93       |
| 77) Pyrene                  | 12.56 | 202  | 210392   | 16.50  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.74 | 228  | 147604   | 15.79  | ng    | 93       |
| 82) Chrysene                | 13.77 | 228  | 109656m  | 11.53  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.39 | 276  | 49168m   | 6.21   | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.75 | 252  | 159397m  | 15.85  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.77 | 252  | 51037m   | 6.20   | ng    |          |
| 89) Benzo(a)pyrene          | 15.06 | 252  | 99543    | 11.48  | ng    | # 78     |
| 91) Benzo(g,h,i)perylene    | 16.77 | 276  | 48096    | 6.47   | ng    | # 92     |

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

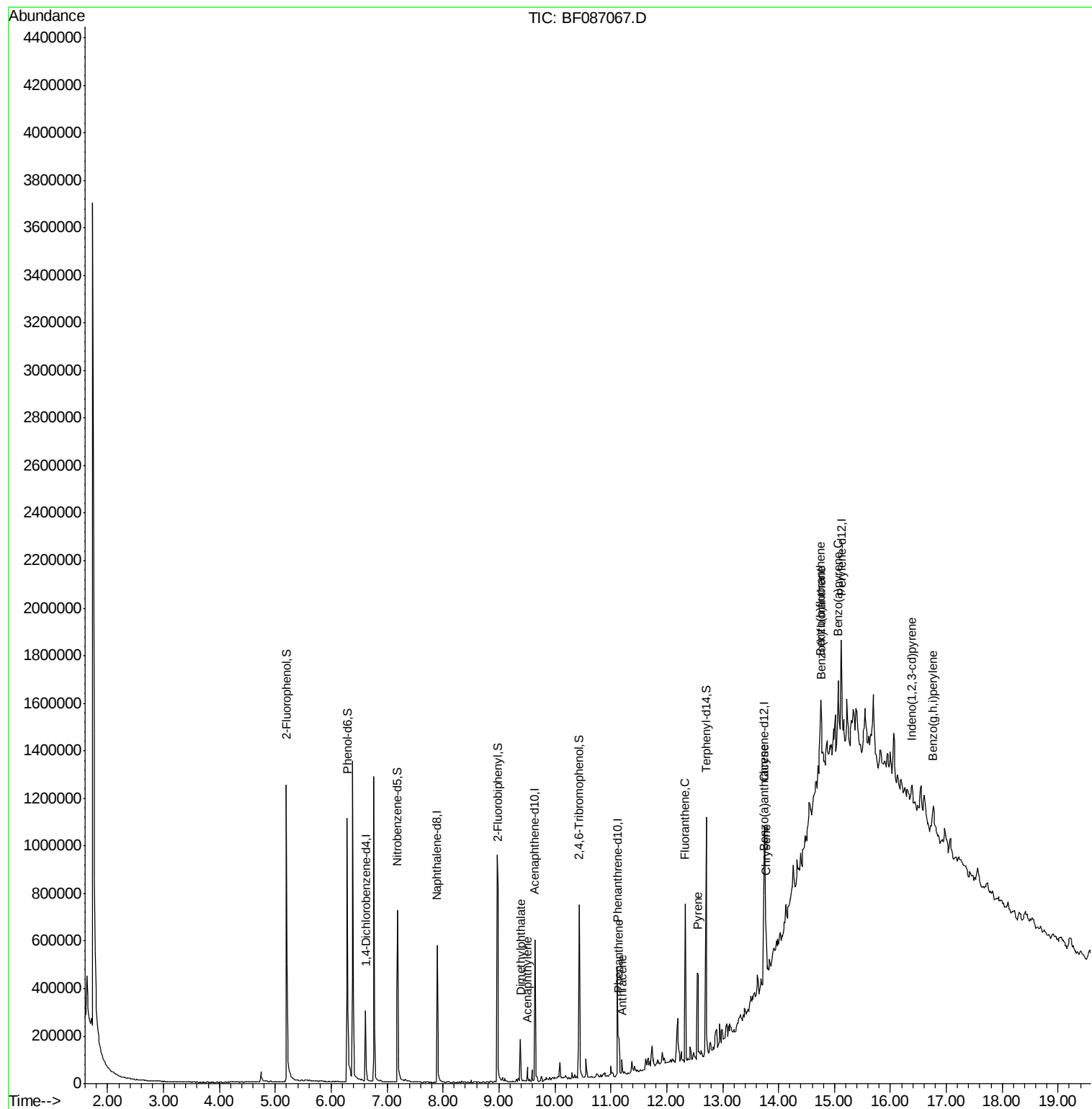
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051416\  
Data File : BF087067.D  
Acq On : 15 May 2016 14:01  
Operator : UM/SJ  
Sample : H2968-06 2X  
Misc :  
ALS Vial : 86 Sample Multiplier: 1

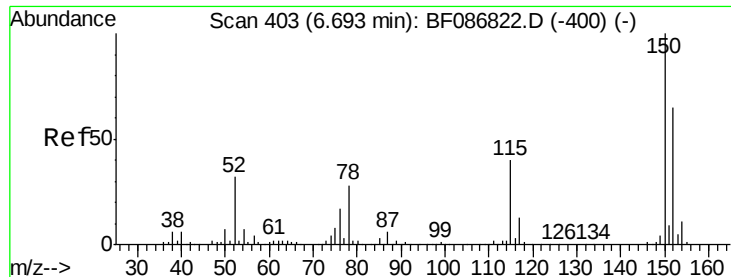
Instrument :  
BNA\_F  
ClientSampled :  
TP42-4.5FT

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Quant Time: May 16 07:42:23 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 16 05:03:47 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. 0.00 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

Instrument :

BNA\_F

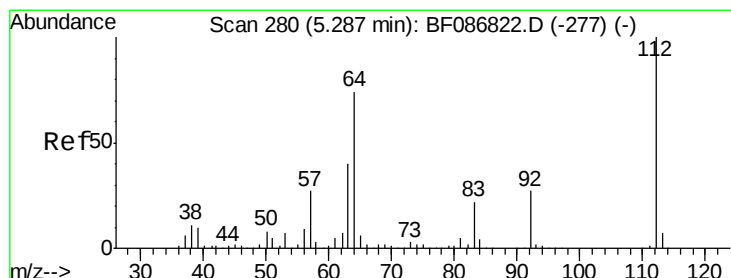
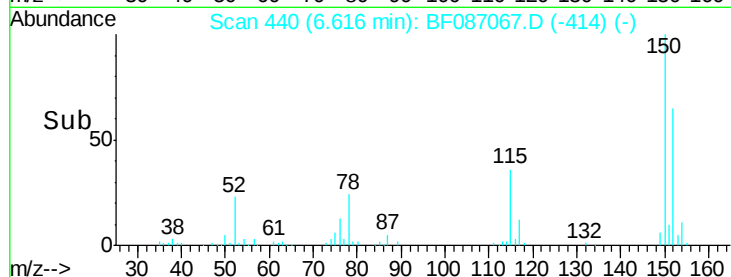
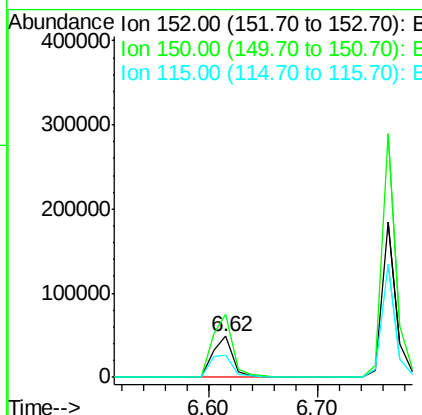
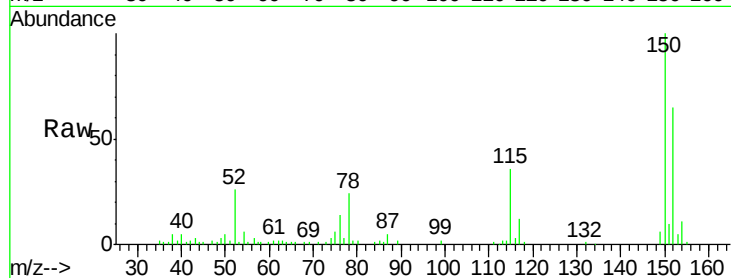
ClientSampleId :

TP42-4.5FT

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 63680 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 153.0 | 125.8 | 188.6 |
| 115       | 55.3  | 51.5  | 77.3  |

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#5

2-Fluorophenol

Concen: 101.33 ng

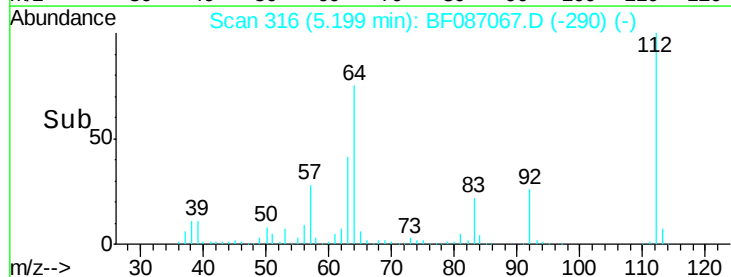
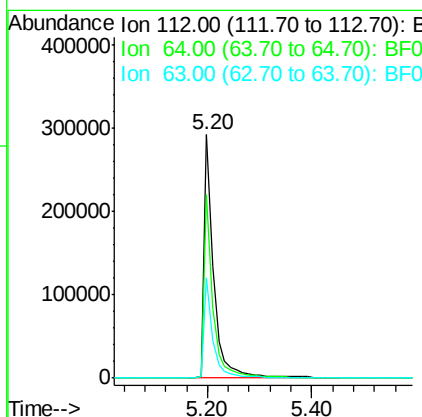
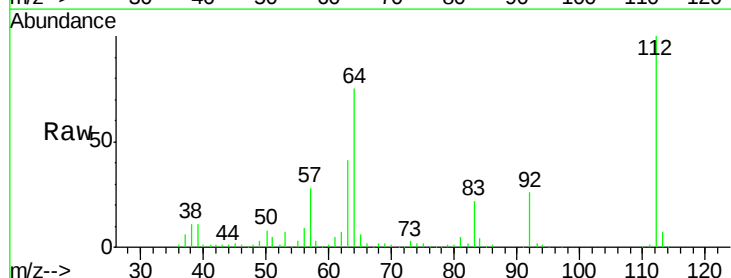
RT: 5.20 min Scan# 316

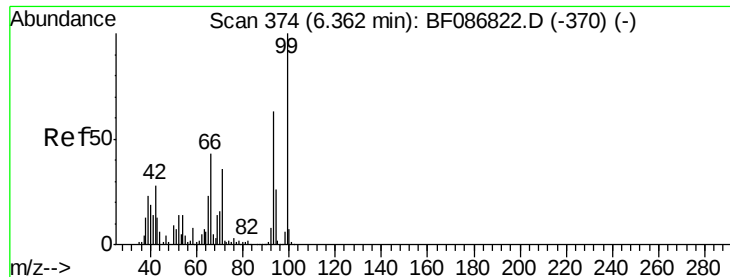
Delta R.T. 0.00 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 381016 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 75.5  | 52.1  | 78.1   |
| 63        | 41.4  | 25.7  | 38.5   |





#7

Phenol-d6

Concen: 93.29 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF087067.D

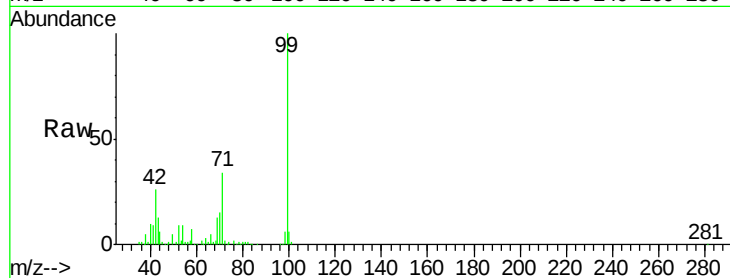
Acq: 15 May 2016 14:01

Instrument :

BNA\_F

ClientSampleId :

TP42-4.5FT



Tgt Ion: 99 Resp: 468814

Ion Ratio Lower Upper

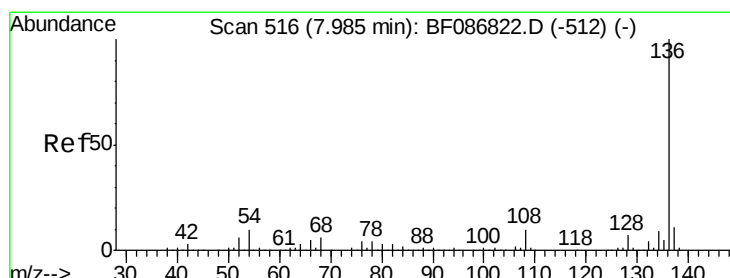
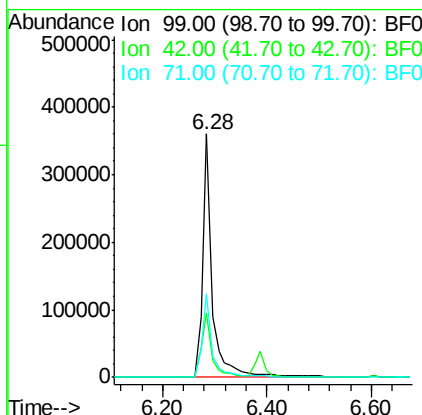
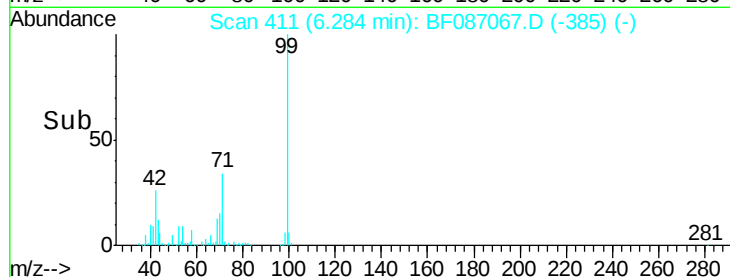
99 100

42 26.2 13.6 20.4#

71 34.5 24.6 36.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. -0.01 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

Tgt Ion: 136 Resp: 260007

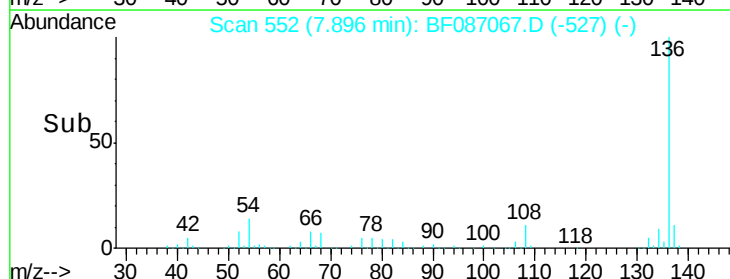
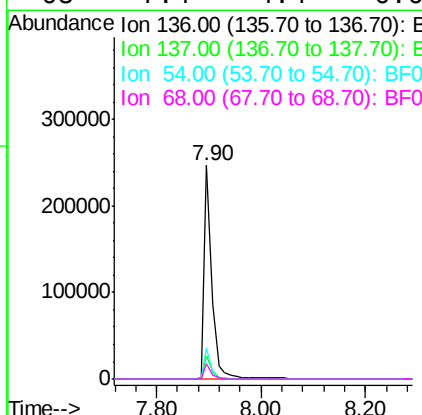
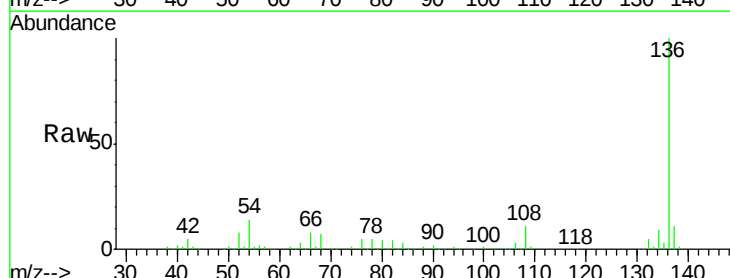
Ion Ratio Lower Upper

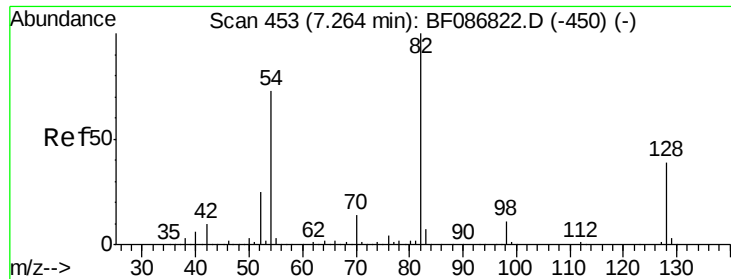
136 100

137 10.9 8.8 13.2

54 14.3 5.0 7.4#

68 7.4 4.4 6.6#





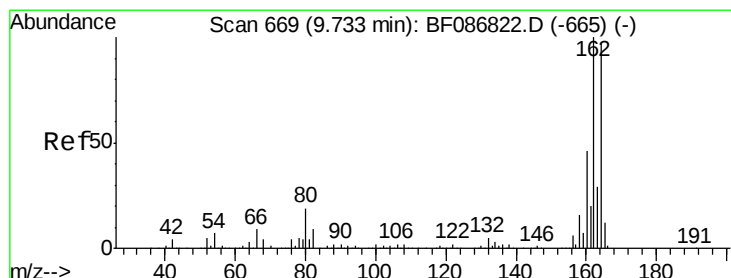
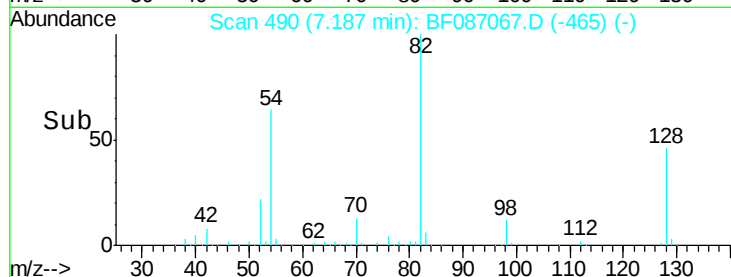
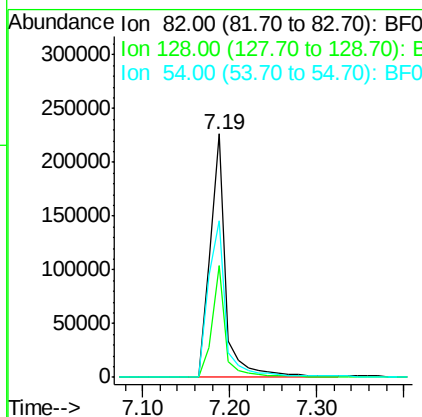
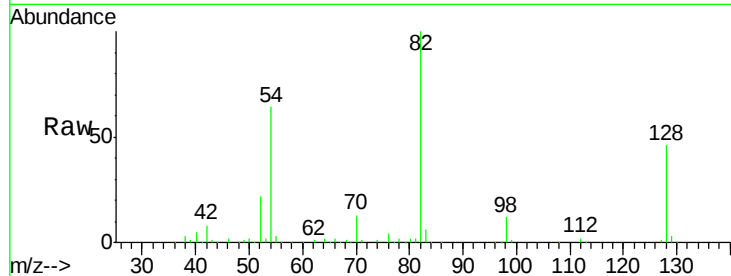
#23  
 Nitrobenzene-d5  
 Concen: 55.20 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.01 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP42-4.5FT

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 82      | 100   |            |            |
| 128     | 45.7  | 40.6       | 61.0       |
| 54      | 64.5  | 38.1       | 57.1       |

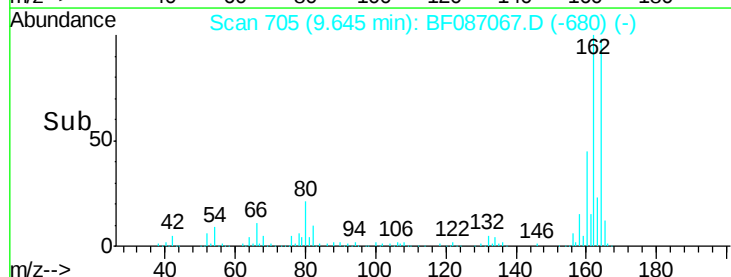
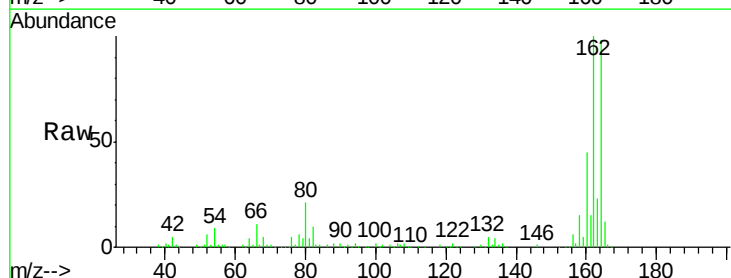
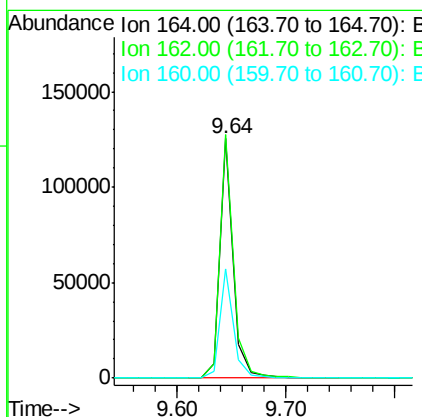
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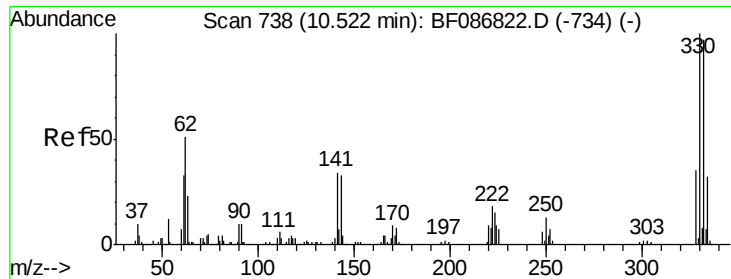
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.64 min Scan# 705  
 Delta R.T. -0.01 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 164     | 100   |            |            |
| 162     | 101.7 | 82.8       | 124.2      |
| 160     | 45.6  | 36.9       | 55.3       |





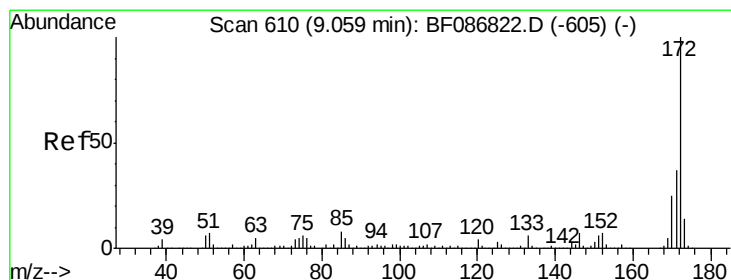
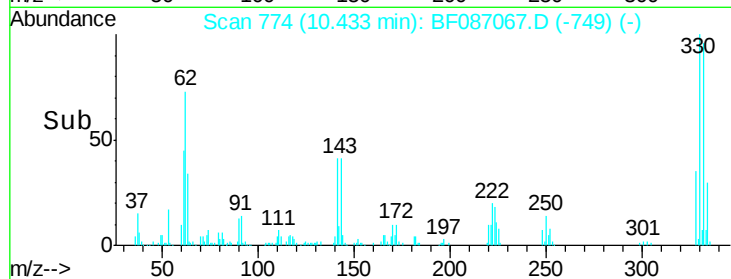
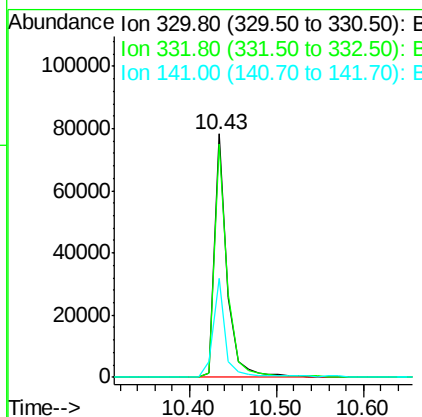
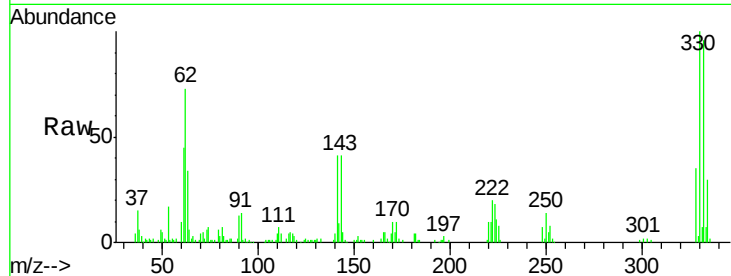
#41  
 2,4,6-Tribromophenol  
 Concen: 71.10 ng  
 RT: 10.43 min Scan# 774  
 Delta R.T. -0.01 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP42-4.5FT

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 80802 |       |       |
| 332     | 97.7  | 79.0  | 118.4 |       |
| 141     | 40.3  | 31.2  | 46.8  |       |

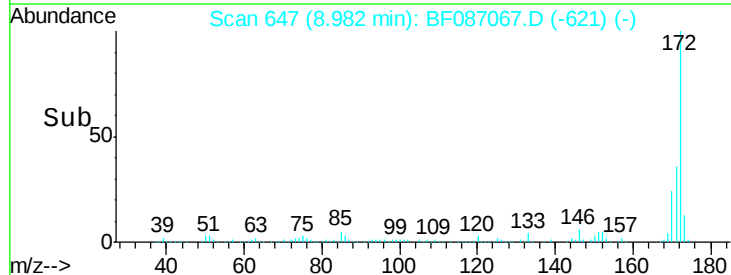
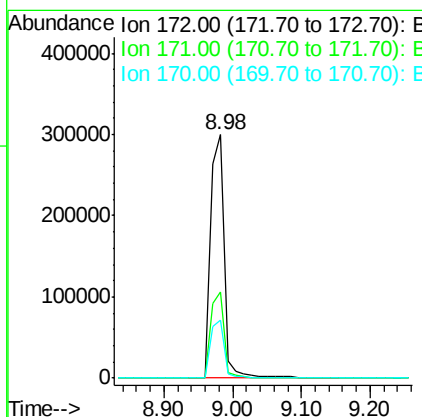
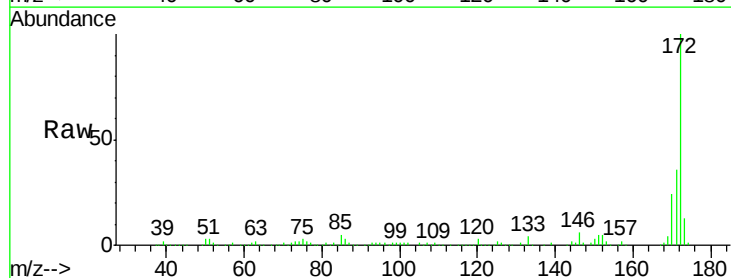
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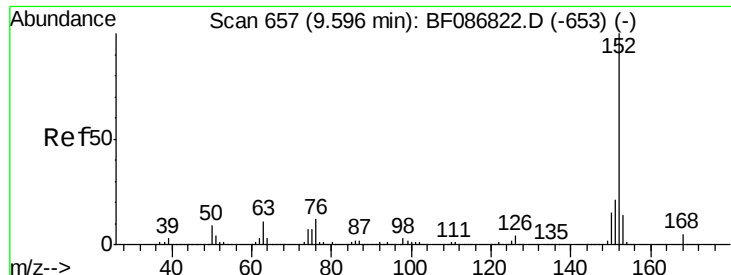
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#44  
 2-Fluorobiphenyl  
 Concen: 66.43 ng  
 RT: 8.98 min Scan# 647  
 Delta R.T. 0.00 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 424290 |       |       |
| 171     | 35.6  | 29.0   | 43.6  |       |
| 170     | 24.1  | 19.8   | 29.8  |       |





#48

Acenaphthylene

Concen: 2.58 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF087067.D

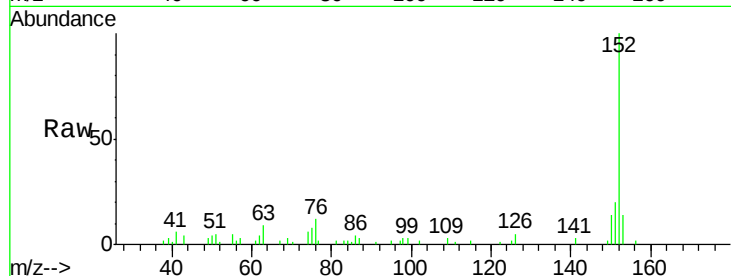
Acq: 15 May 2016 14:01

Instrument :

BNA\_F

ClientSampleId :

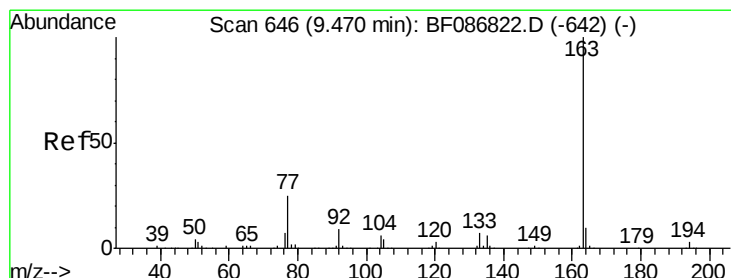
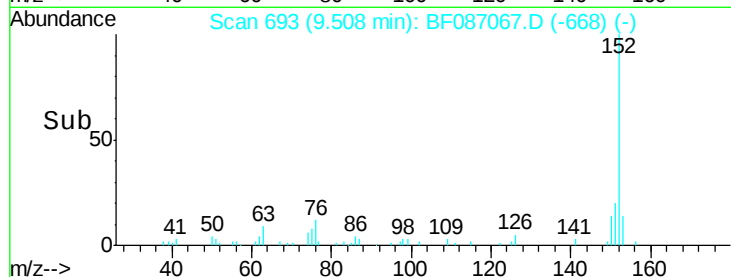
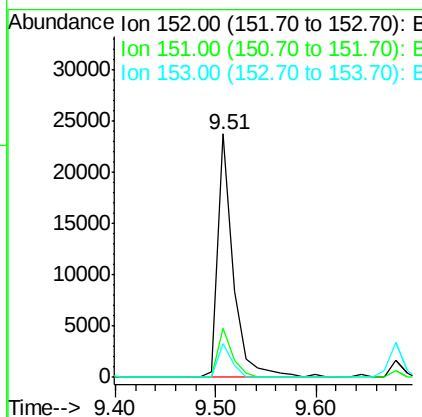
TP42-4.5FT



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 25430 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.4  | 16.8  | 25.2  |
| 153       | 14.0  | 10.9  | 16.3  |

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#49

Dimethylphthalate

Concen: 8.16 ng

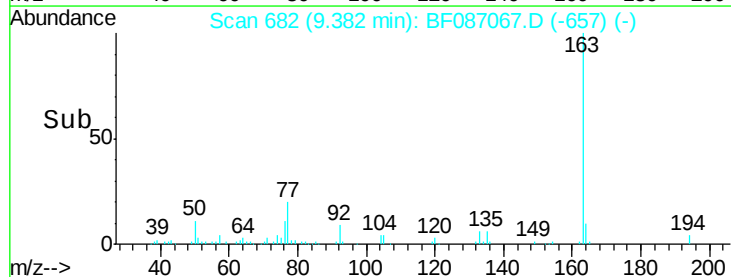
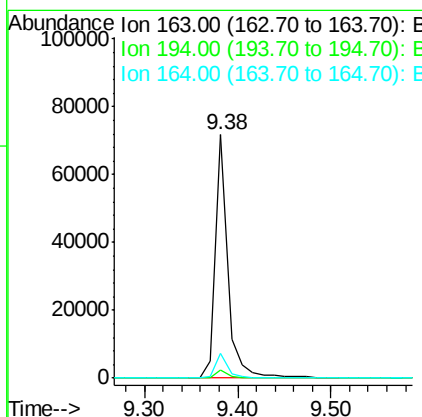
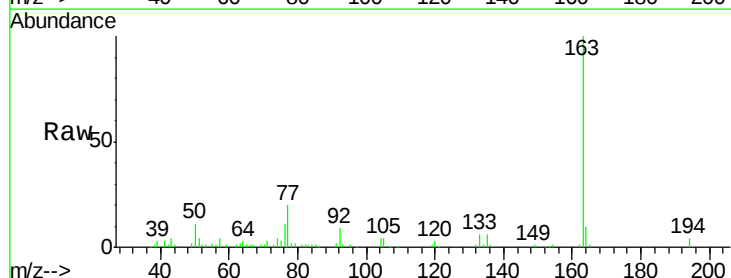
RT: 9.38 min Scan# 682

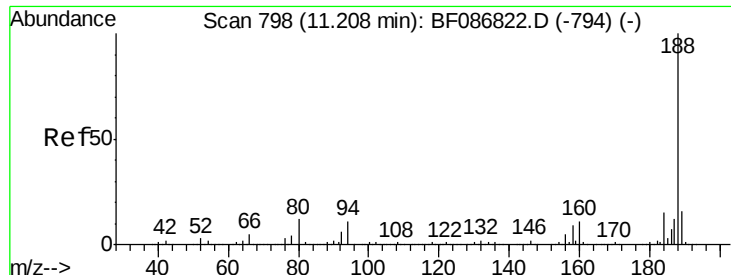
Delta R.T. -0.01 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 66792 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.6   | 2.6   | 4.0   |
| 164       | 10.1  | 8.2   | 12.4  |





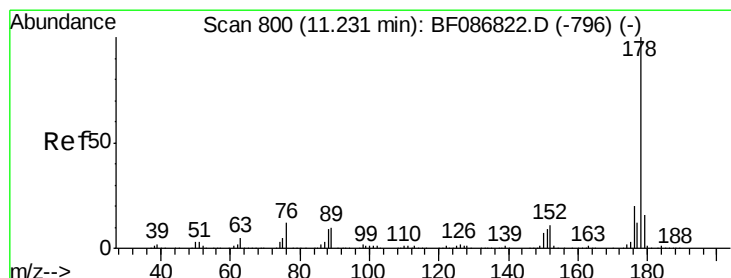
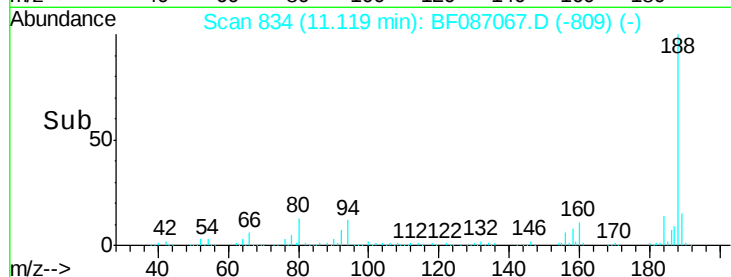
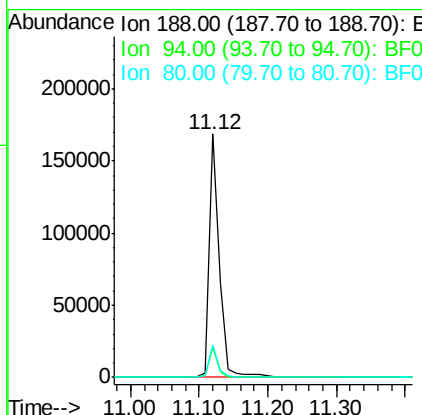
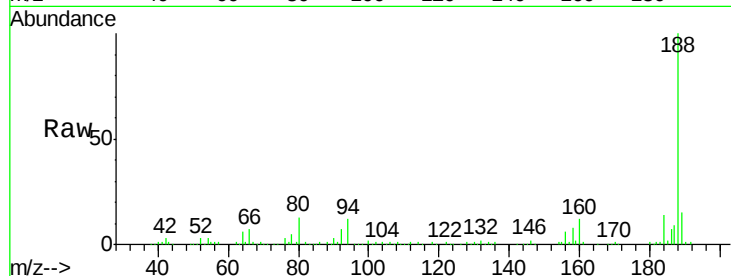
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.12 min Scan# 834  
 Delta R.T. -0.01 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP42-4.5FT

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 174112 |       |       |
| 94      | 12.2  | 6.8    | 10.2# |       |
| 80      | 13.2  | 7.1    | 10.7# |       |

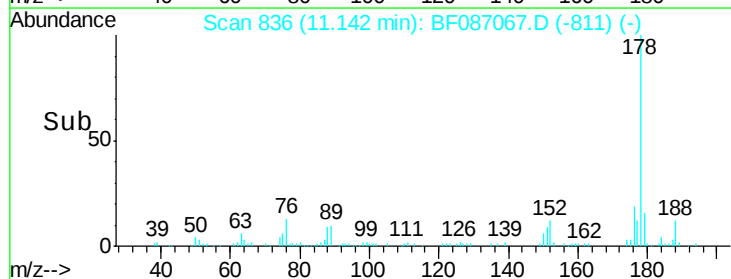
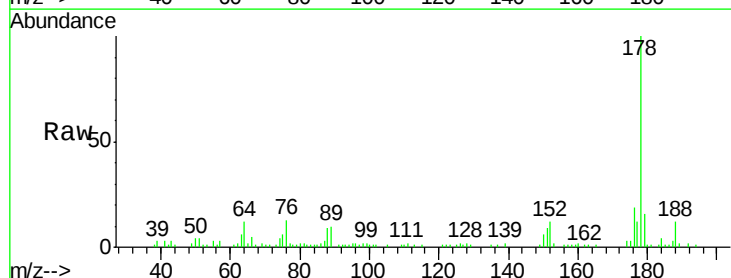
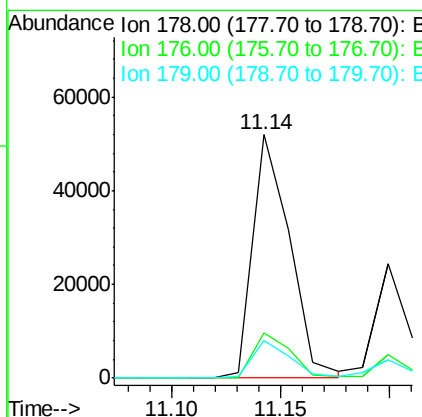
Manual Integrations  
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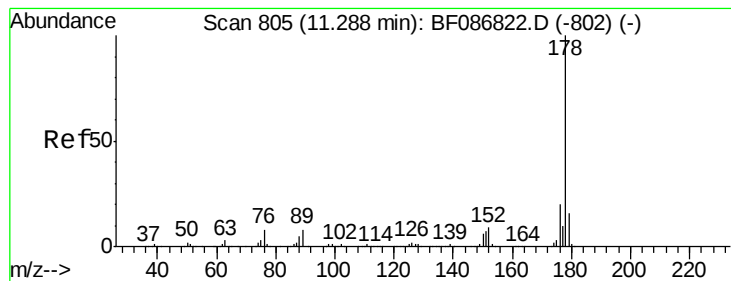
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#70  
 Phenanthrene  
 Concen: 6.64 ng  
 RT: 11.14 min Scan# 836  
 Delta R.T. -0.01 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 61663 |       |       |
| 176     | 18.6  | 16.0  | 24.0  |       |
| 179     | 15.6  | 12.6  | 18.8  |       |





#71

Anthracene

Concen: 3.07 ng

RT: 11.20 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

Instrument :

BNA\_F

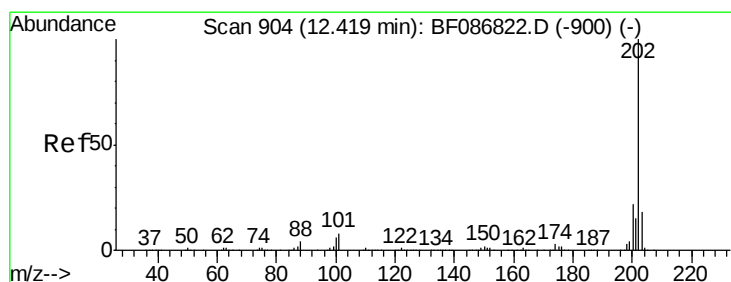
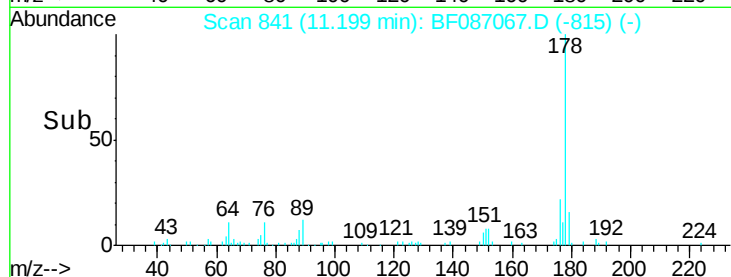
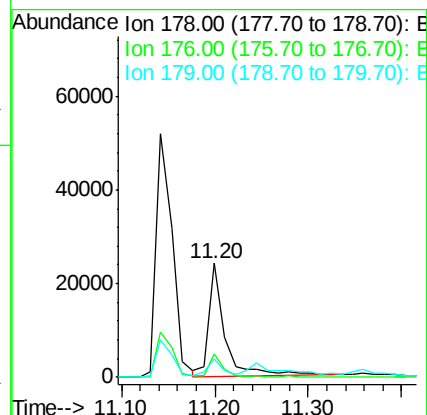
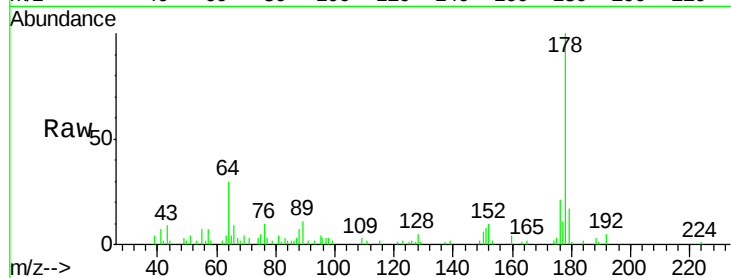
ClientSampleId :

TP42-4.5FT

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 29137 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 21.1  | 15.6  | 23.4  |
| 179       | 16.7  | 12.7  | 19.1  |

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#74

Fluoranthene

Concen: 27.29 ng

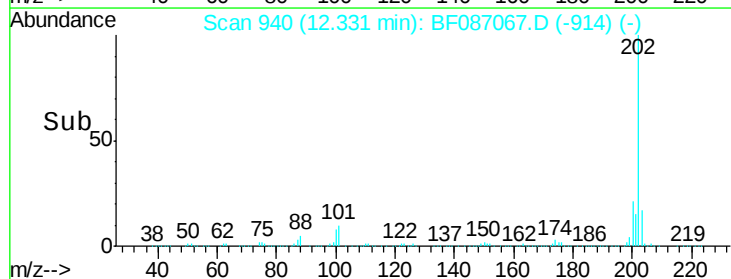
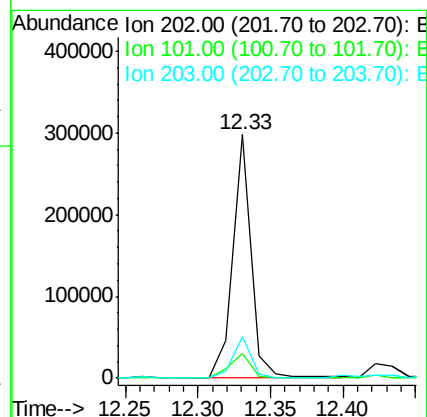
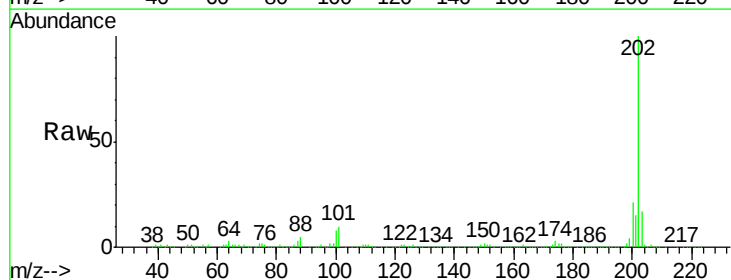
RT: 12.33 min Scan# 940

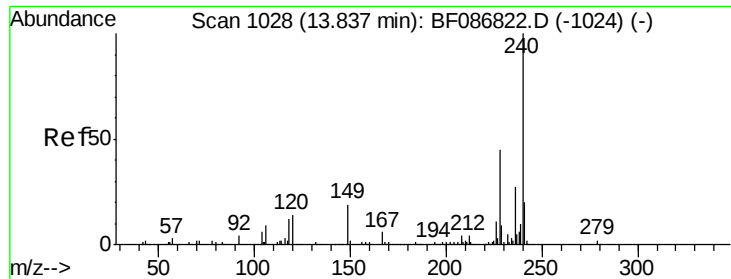
Delta R.T. 0.00 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 260818 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.0  | 0.0   | 35.4   |
| 203       | 17.2  | 0.0   | 38.1   |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

Instrument :

BNA\_F

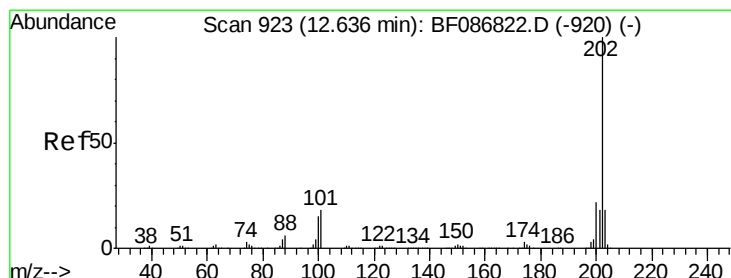
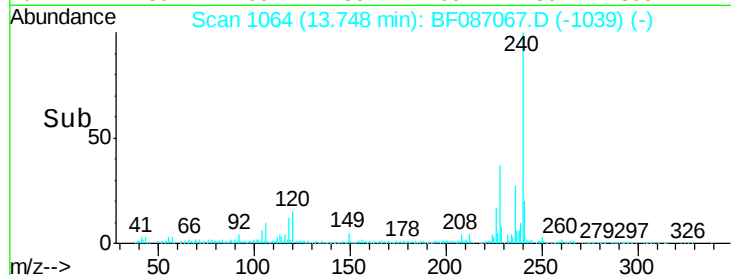
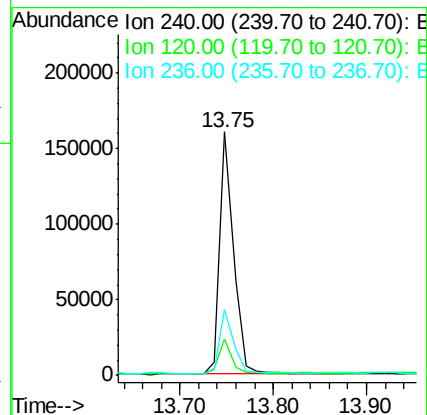
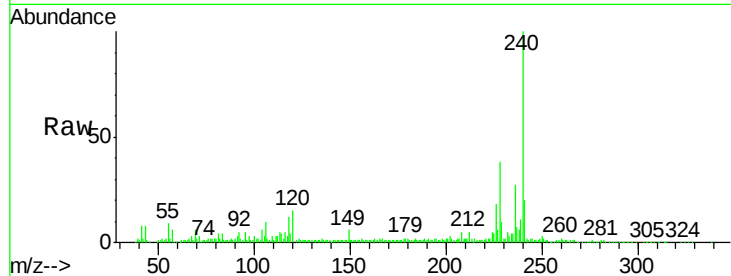
ClientSampleId :

TP42-4.5FT

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 166554 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.9  | 11.2  | 16.8   |
| 236       | 27.1  | 21.2  | 31.8   |

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#77

Pyrene

Concen: 16.50 ng

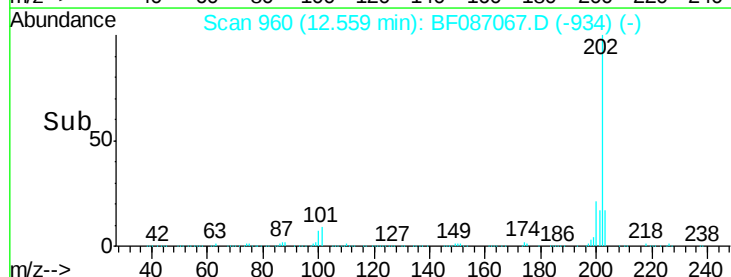
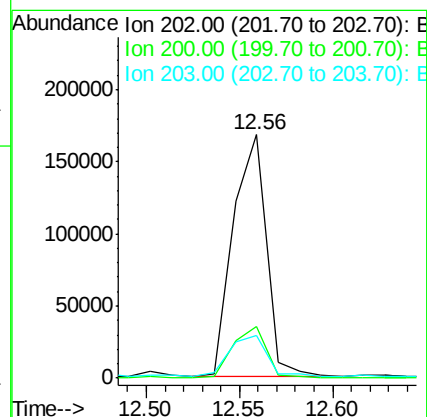
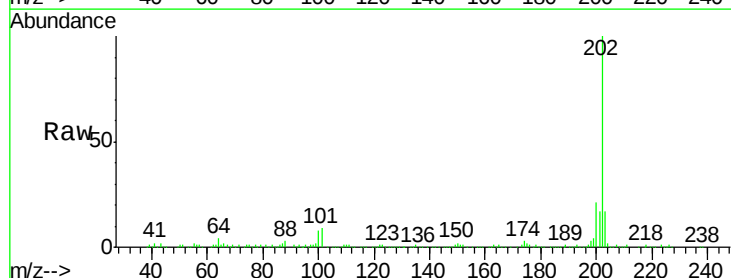
RT: 12.56 min Scan# 960

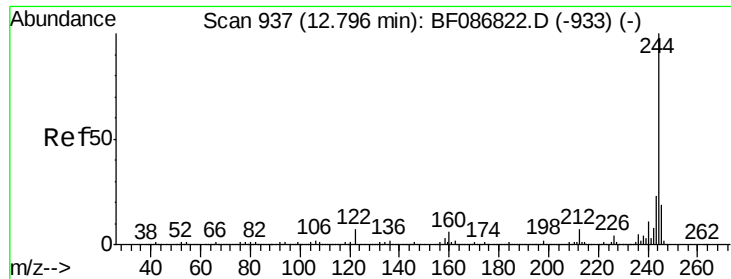
Delta R.T. 0.00 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 210392 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.2  | 17.7  | 26.5   |
| 203       | 17.3  | 14.2  | 21.4   |





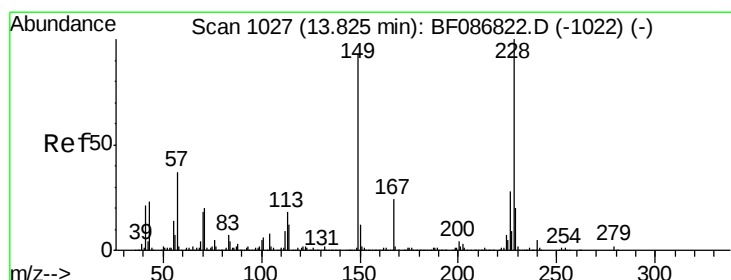
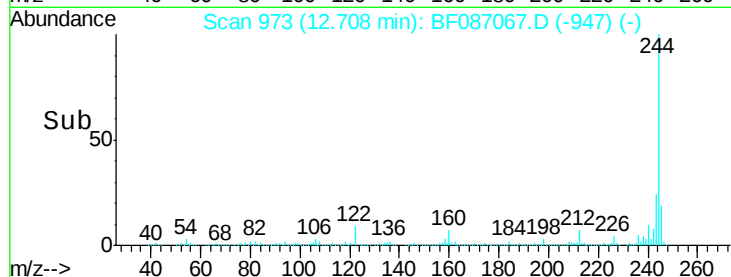
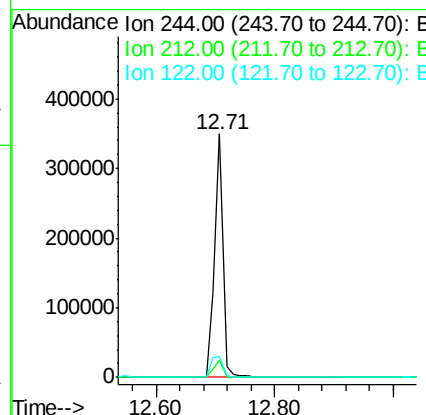
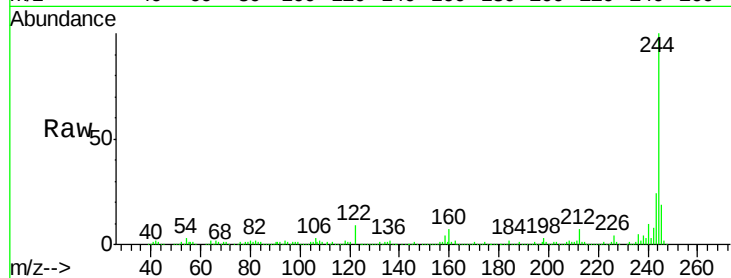
#78  
 Terphenyl-d14  
 Concen: 43.88 ng  
 RT: 12.71 min Scan# 973  
 Delta R.T. 0.00 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP42-4.5FT

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 344482 |       |       |
| 212     | 7.1   | 6.2    | 9.2   |       |
| 122     | 8.5   | 12.0   | 18.0  |       |

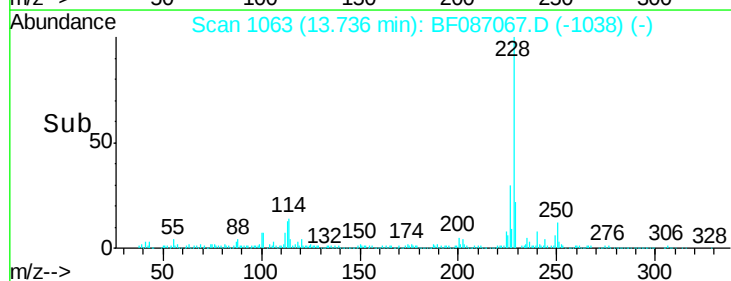
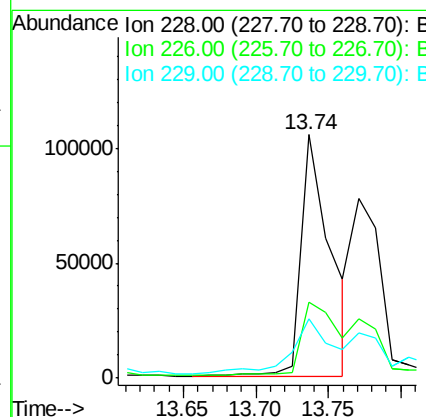
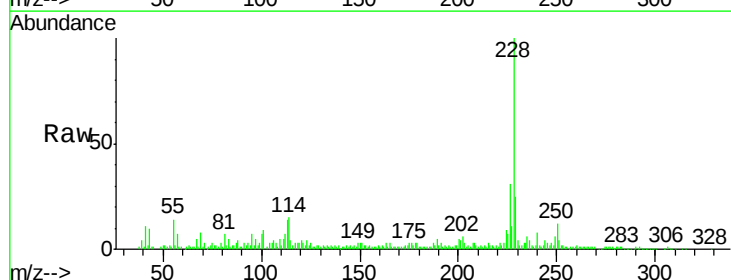
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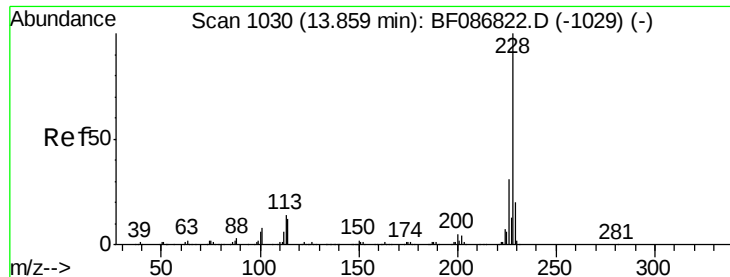
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#80  
 Benzo(a)anthracene  
 Concen: 15.79 ng  
 RT: 13.74 min Scan# 1063  
 Delta R.T. -0.01 min  
 Lab File: BF087067.D  
 Acq: 15 May 2016 14:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 147604 |       |       |
| 226     | 31.1  | 22.5   | 33.7  |       |
| 229     | 24.6  | 16.6   | 25.0  |       |





#82

Chrysene

Concen: 11.53 ng m

RT: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

Instrument :

BNA\_F

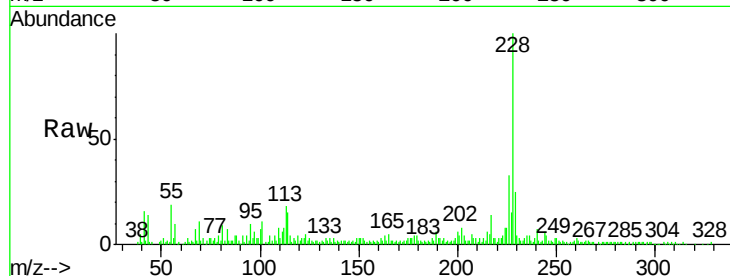
ClientSampleId :

TP42-4.5FT

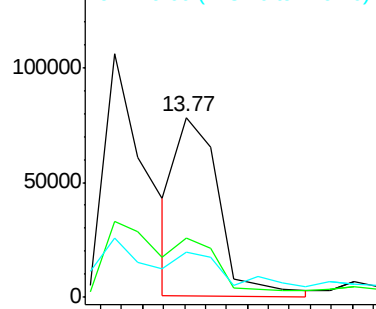
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 109656 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.6  | 24.4  | 36.6   |
| 229       | 25.4  | 15.8  | 23.8#  |

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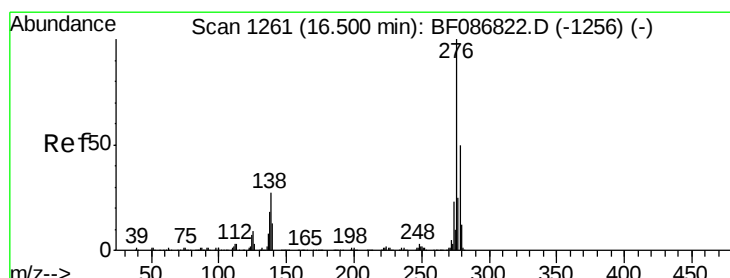
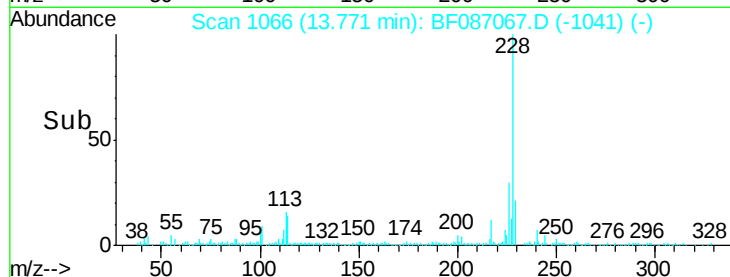
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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.21 ng m

RT: 16.39 min Scan# 1295

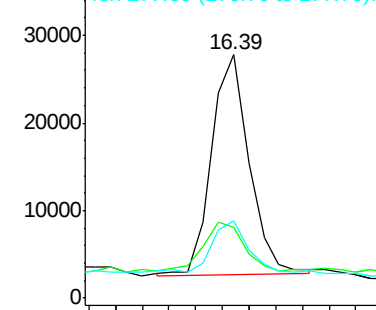
Delta R.T. 0.02 min

Lab File: BF087067.D

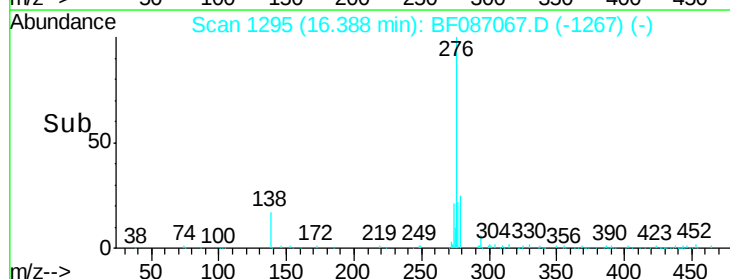
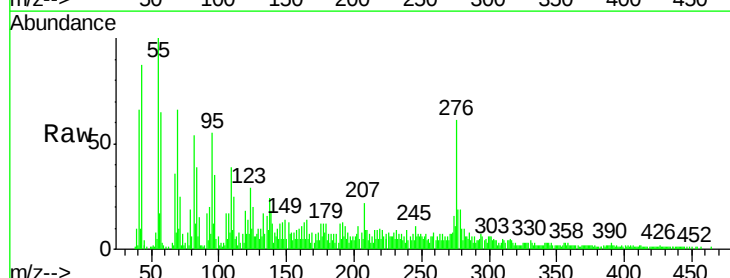
Acq: 15 May 2016 14:01

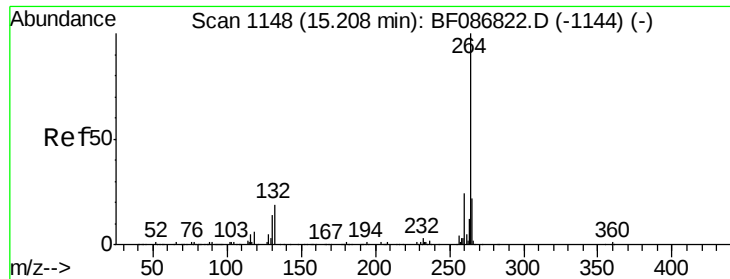
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 49168 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 1.6   | 25.6  | 38.4# |
| 277       | 1.6   | 20.5  | 30.7# |

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



Time-->





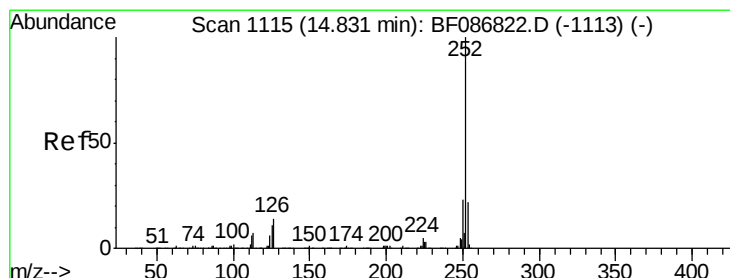
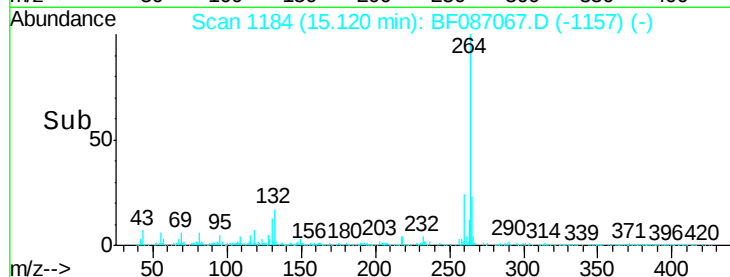
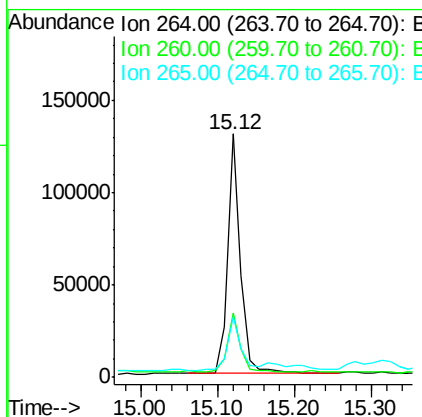
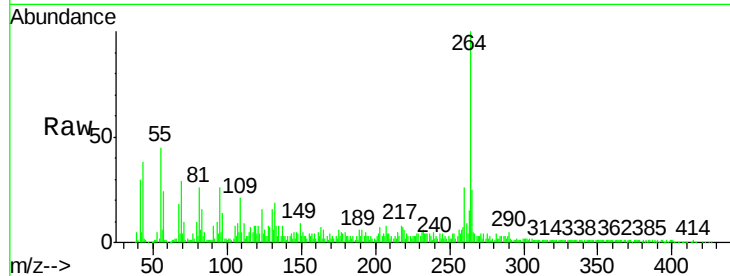
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.12 min Scan# 1184  
Delta R.T. 0.01 min  
Lab File: BF087067.D  
Acq: 15 May 2016 14:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP42-4.5FT

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.3  | 19.5  | 29.3  |
| 265     | 24.7  | 17.3  | 25.9  |

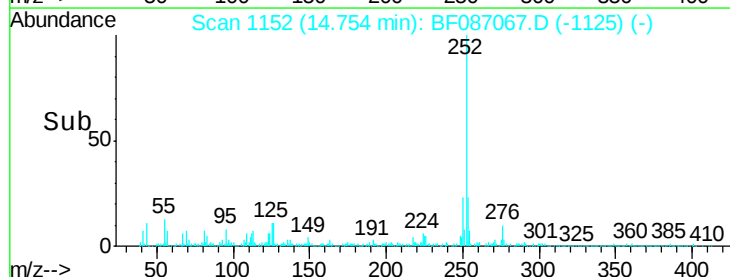
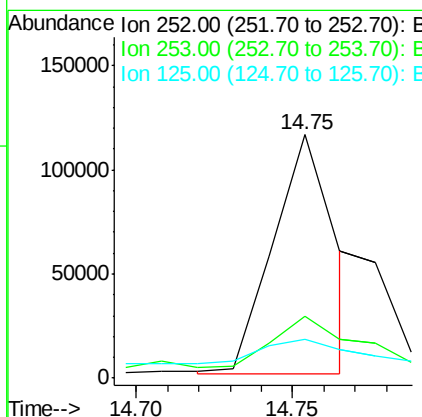
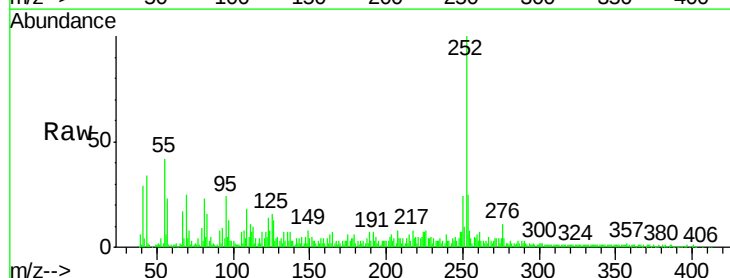
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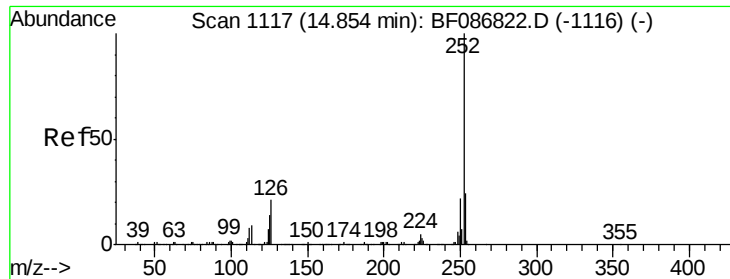
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#87  
Benzo(b)fluoranthene  
Concen: 15.85 ng m  
RT: 14.75 min Scan# 1152  
Delta R.T. 0.01 min  
Lab File: BF087067.D  
Acq: 15 May 2016 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 17.8  | 26.6  |
| 125     | 15.8  | 11.4  | 17.0  |





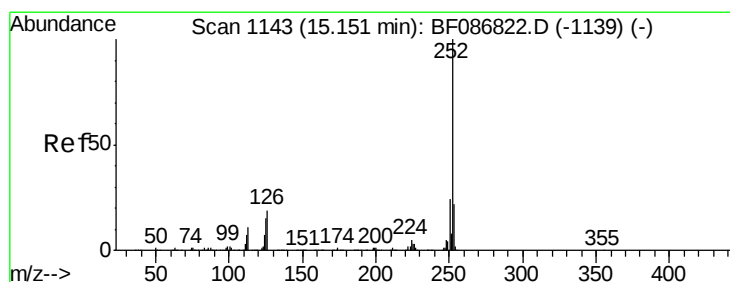
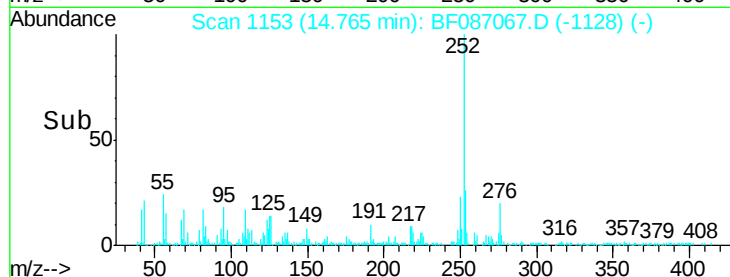
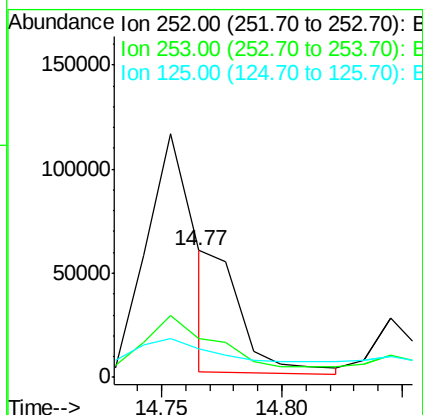
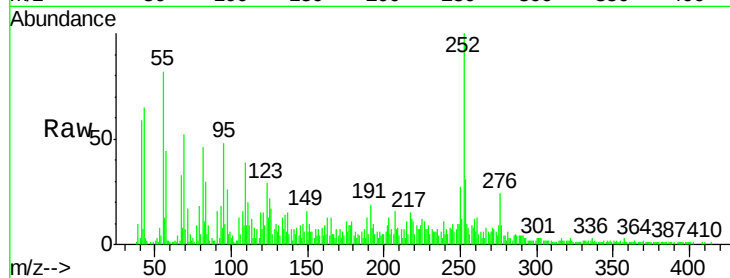
#88  
Benzo(k)fluoranthene  
Concen: 6.20 ng m  
RT: 14.77 min Scan# 1153  
Delta R.T. -0.01 min  
Lab File: BF087067.D  
Acq: 15 May 2016 14:01

Instrument :  
BNA\_F  
ClientSampleId :  
TP42-4.5FT

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.8  | 17.8  | 26.6# |
| 125     | 22.2  | 9.1   | 13.7# |

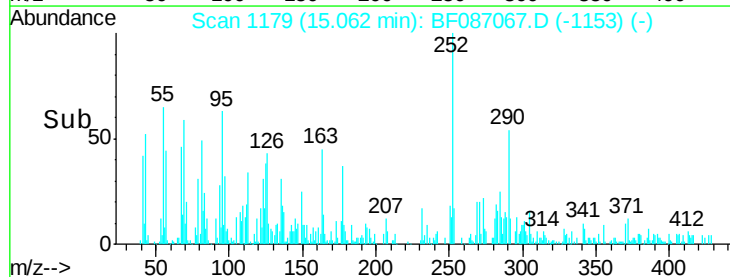
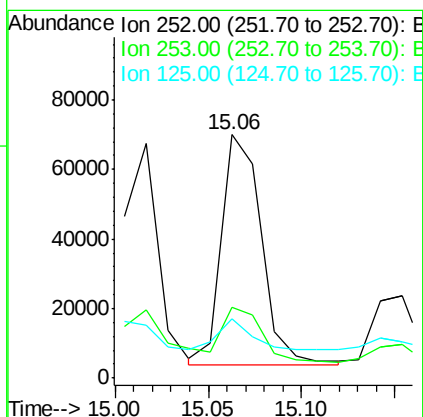
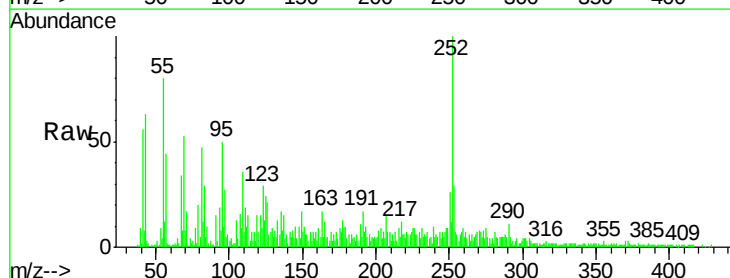
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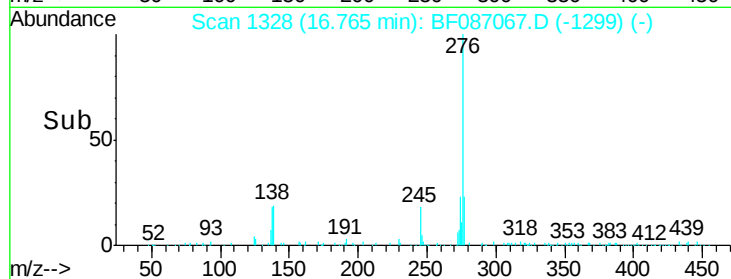
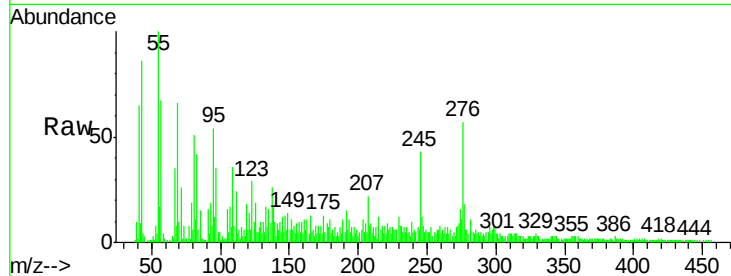
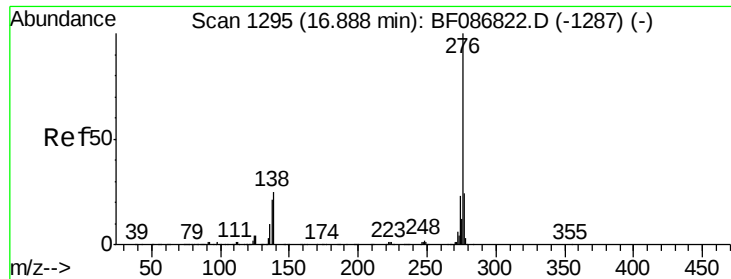
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#89  
Benzo(a)pyrene  
Concen: 11.48 ng  
RT: 15.06 min Scan# 1179  
Delta R.T. 0.00 min  
Lab File: BF087067.D  
Acq: 15 May 2016 14:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.0  | 17.2  | 25.8# |
| 125     | 24.3  | 9.0   | 13.6# |





#91

Benzo(g,h,i)perylene

Concen: 6.47 ng

RT: 16.77 min Scan# 1328

Delta R.T. 0.03 min

Lab File: BF087067.D

Acq: 15 May 2016 14:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 48096 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 32.1  | 19.6  | 29.4# |
| 138       | 30.1  | 23.6  | 35.4  |

Instrument :

BNA\_F

ClientSampleId :

TP42-4.5FT

Manual Integrations  
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