

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070216\  
 Data File : BF088620.D  
 Acq On : 2 Jul 2016 16:40  
 Operator : UM/SJ  
 Sample : H3871-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L8-B1(0-12)C

## Manual Integrations

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Quant Time: Jul 03 03:40:36 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 30 18:01:55 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 106858   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.08  | 136  | 446610   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.83  | 164  | 187671   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.30 | 188  | 275651   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 13.93 | 240  | 218174   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.34 | 264  | 209559   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 747863   | 104.89 | ng    | -0.02    |
| 7) Phenol-d6                | 6.43  | 99   | 1034340  | 112.27 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 650025   | 76.27  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330  | 170475   | 97.82  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 814808   | 68.58  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.89 | 244  | 503543   | 51.41  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.55  | 163  | 144364   | 10.80  | ng    | 98       |
| 70) Phenanthrene            | 11.32 | 178  | 168697   | 11.20  | ng    | 99       |
| 71) Anthracene              | 11.38 | 178  | 45782    | 3.06   | ng    | 97       |
| 74) Fluoranthene            | 12.51 | 202  | 215941   | 14.14  | ng    | 96       |
| 77) Pyrene                  | 12.74 | 202  | 188280   | 10.18  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.92 | 228  | 101011   | 7.19   | ng    | 99       |
| 82) Chrysene                | 13.95 | 228  | 68695    | 4.94   | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.66 | 276  | 30976    | 2.90   | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 14.94 | 252  | 89765m   | 6.83   | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.95 | 252  | 36727m   | 3.21   | ng    |          |
| 89) Benzo(a)pyrene          | 15.27 | 252  | 65326    | 5.87   | ng    | 97       |
| 91) Benzo(g,h,i)perylene    | 17.06 | 276  | 30377    | 3.16   | ng    | 95       |

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

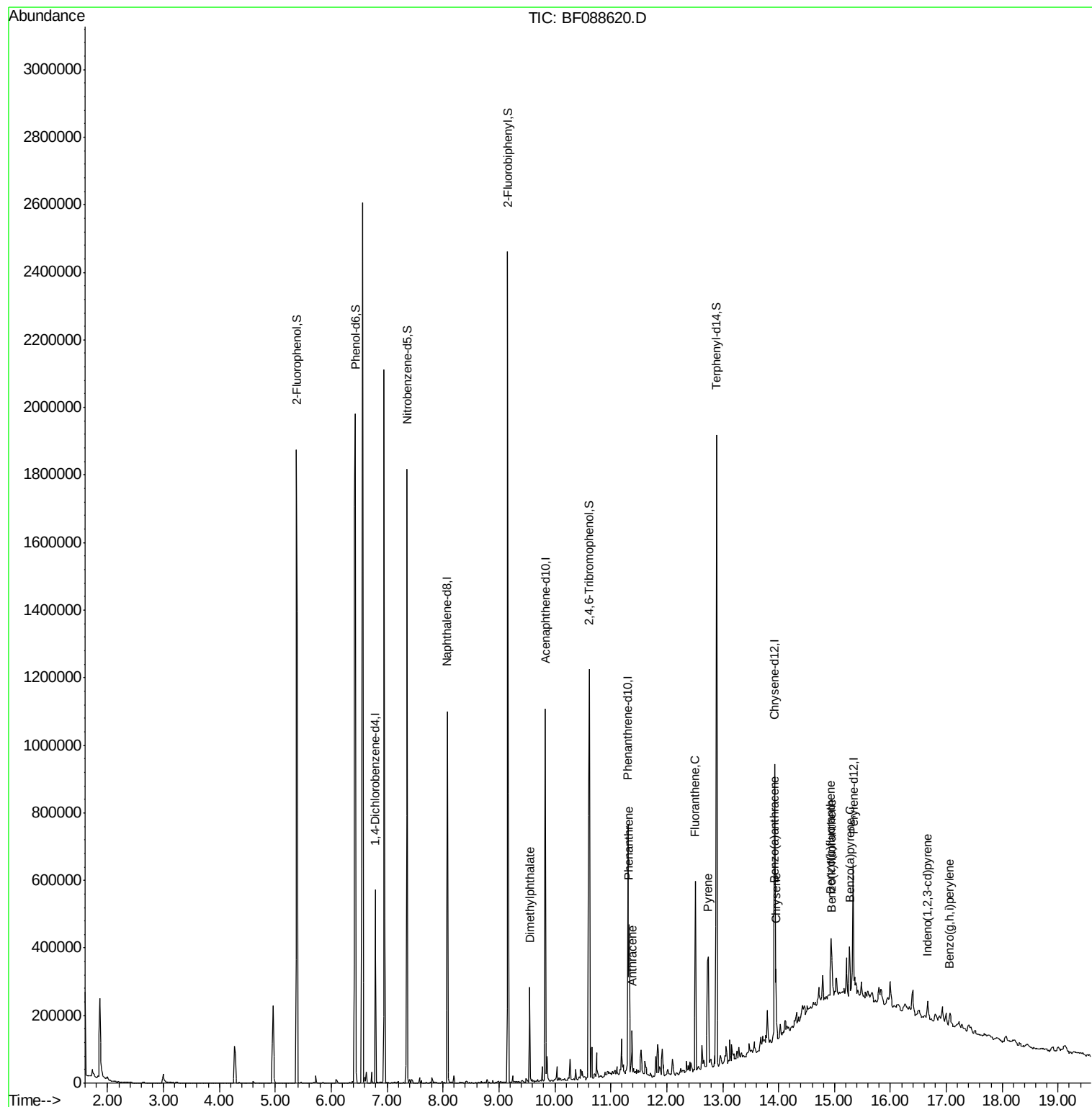
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070216\  
Data File : BF088620.D  
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Operator : UM/SJ  
Sample : H3871-09  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

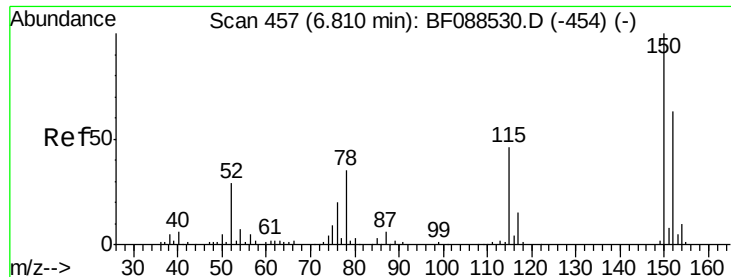
Instrument :  
BNA\_F  
ClientSampleId :  
L8-B1(0-12)C

Manual Integrations

Quant Time: Jul 03 03:40:36 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 30 18:01:55 2016  
Response via : Initial Calibration

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.79 min Scan# 455

Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

Instrument :

BNA\_F

ClientSampleId :

L8-B1(0-12)C

Tgt Ion:152 Resp: 106858

Ion Ratio Lower Upper

152 100

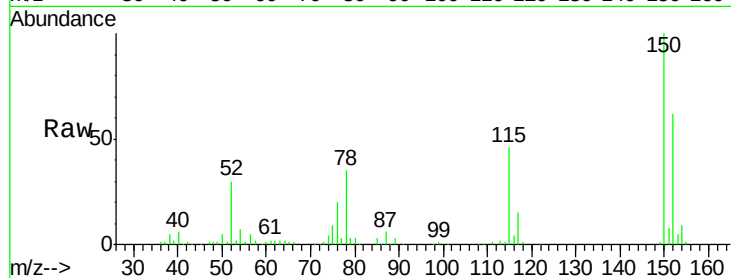
150 162.0 123.8 185.6

115 74.6 39.6 59.4#

Manual Integrations

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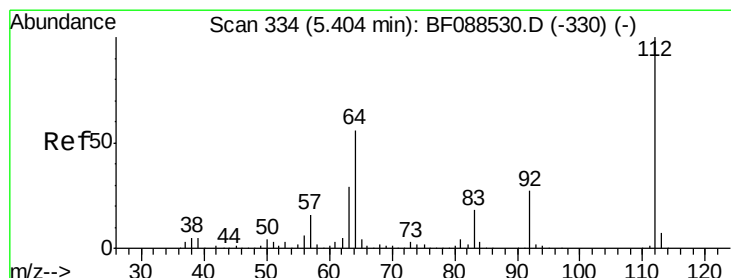
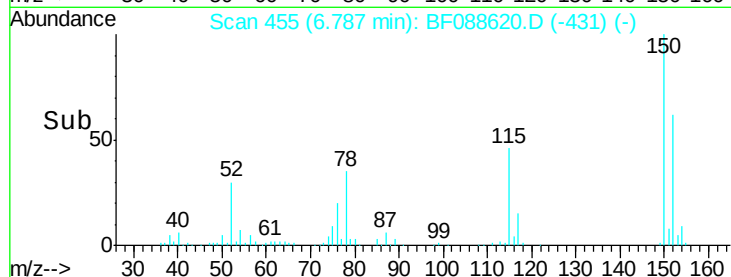
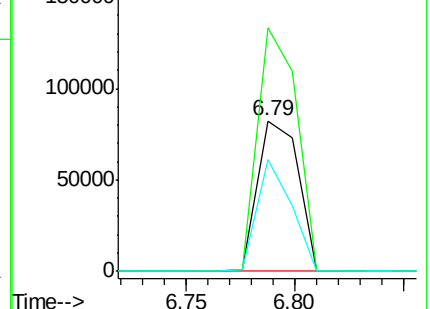
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 104.89 ng

RT: 5.38 min Scan# 332

Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

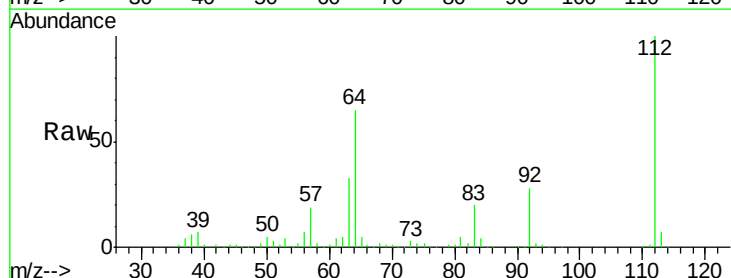
Tgt Ion:112 Resp: 747863

Ion Ratio Lower Upper

112 100

64 64.7 42.2 63.2#

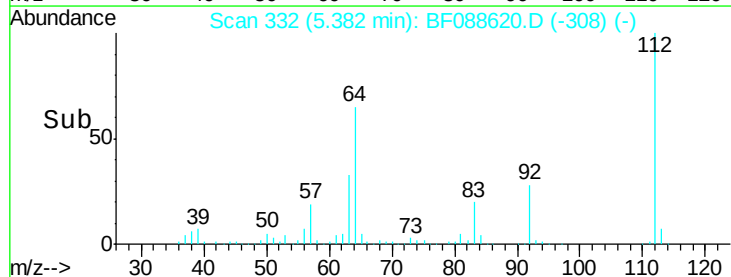
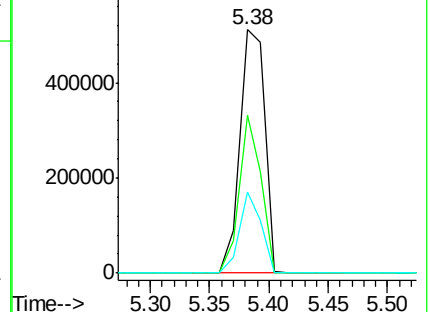
63 33.2 21.8 32.8#

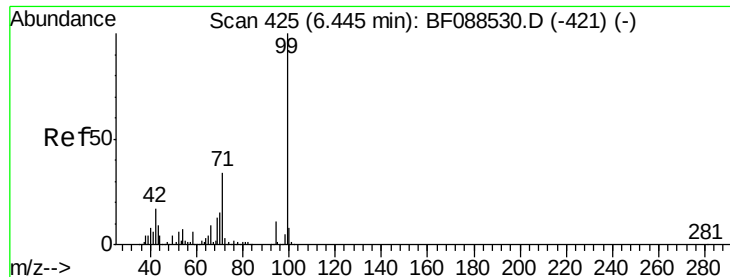


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 112.27 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.01 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

Instrument :

BNA\_F

ClientSampled :

L8-B1(0-12)C

Tgt Ion: 99 Resp: 1034340

Ion Ratio Lower Upper

99 100

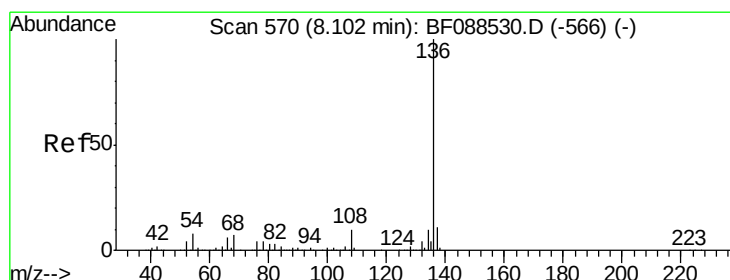
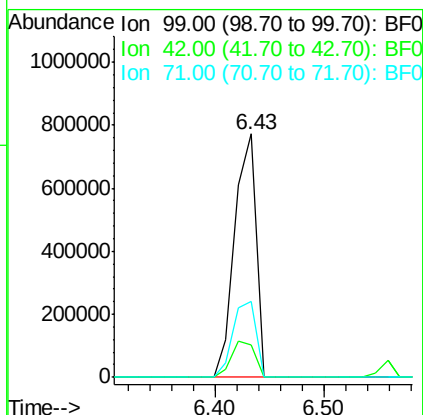
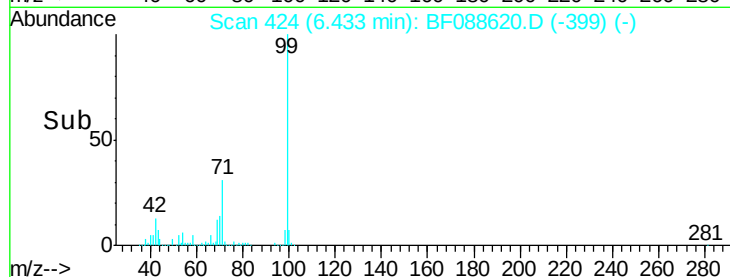
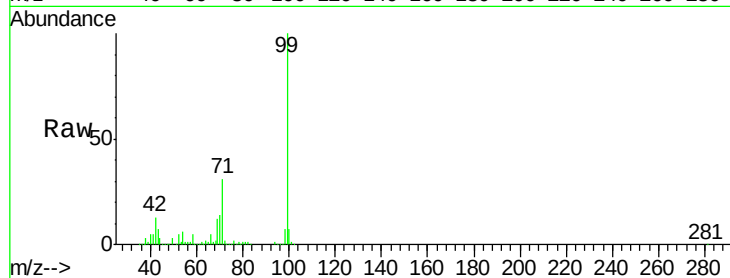
42 13.3 12.2 18.2

71 31.3 23.4 35.0

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 568

Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

Tgt Ion: 136 Resp: 446610

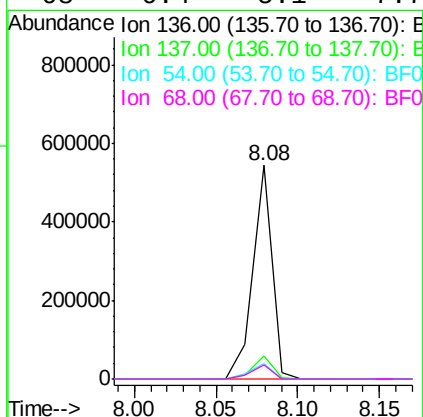
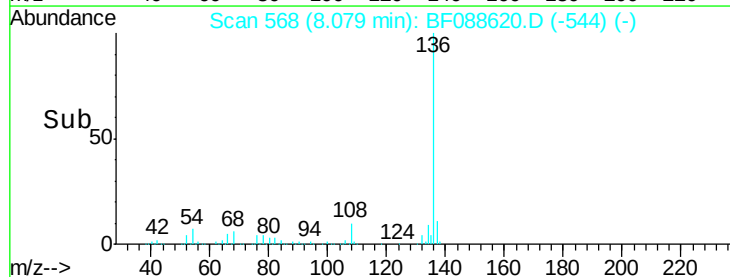
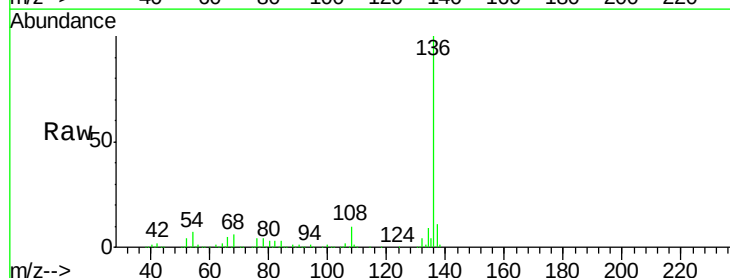
Ion Ratio Lower Upper

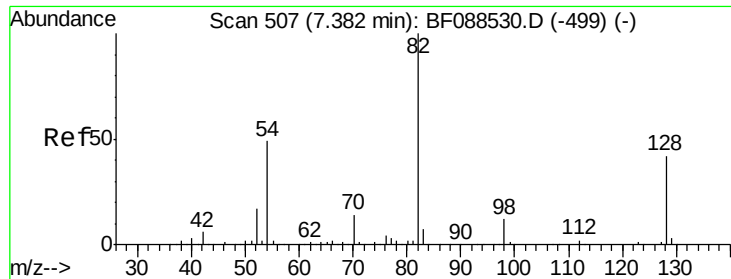
136 100

137 11.0 9.1 13.7

54 7.4 6.6 10.0

68 6.4 5.1 7.7





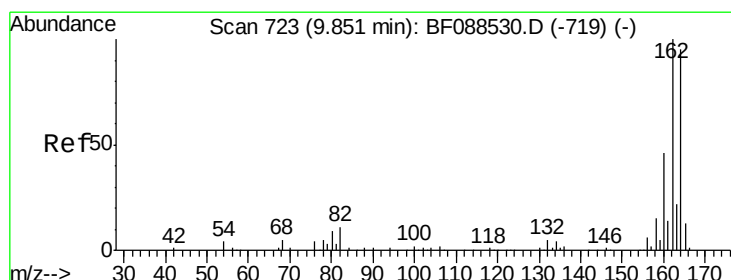
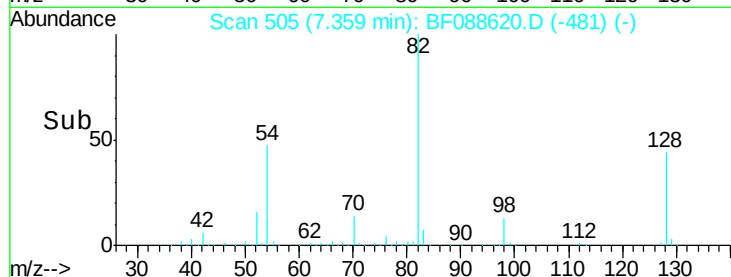
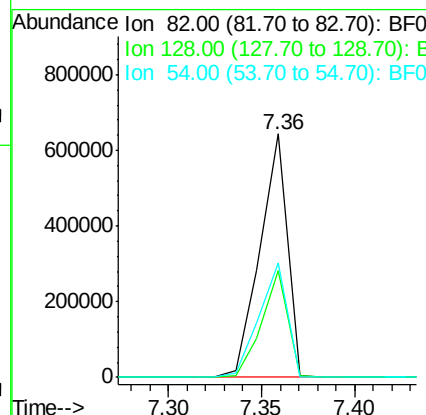
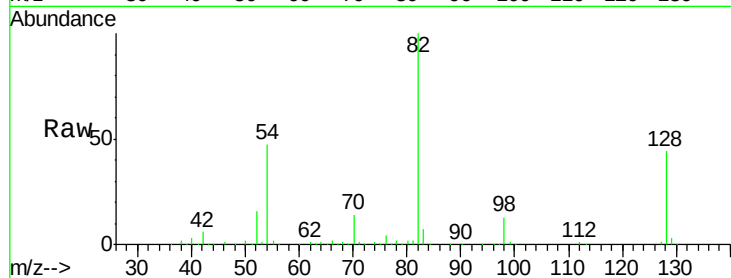
#23  
 Nitrobenzene-d5  
 Concen: 76.27 ng  
 RT: 7.36 min Scan# 505  
 Delta R.T. -0.02 min  
 Lab File: BF088620.D  
 Acq: 2 Jul 2016 16:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L8-B1(0-12)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.9  | 35.9  | 53.9  |
| 54      | 46.8  | 40.9  | 61.3  |

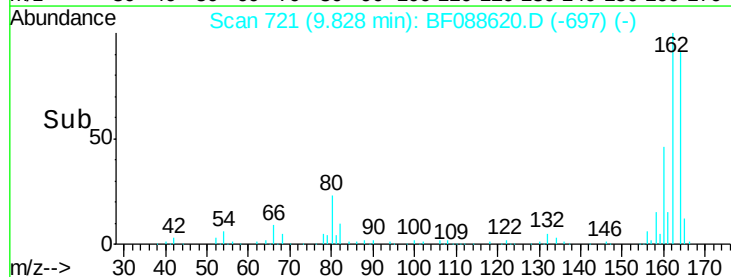
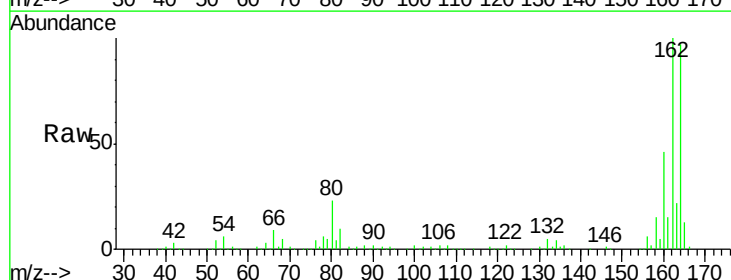
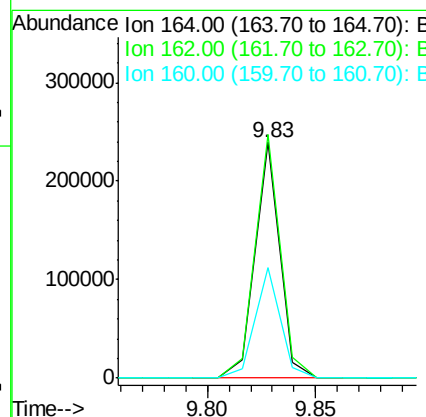
Manual Integrations

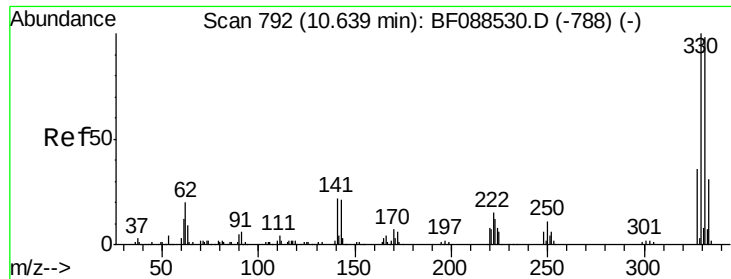
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.83 min Scan# 721  
 Delta R.T. -0.02 min  
 Lab File: BF088620.D  
 Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 85.4  | 128.2 |
| 160     | 47.2  | 39.5  | 59.3  |





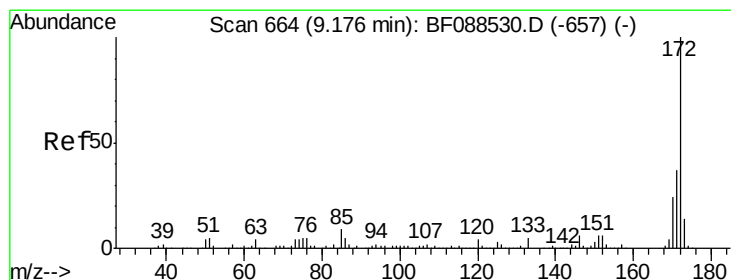
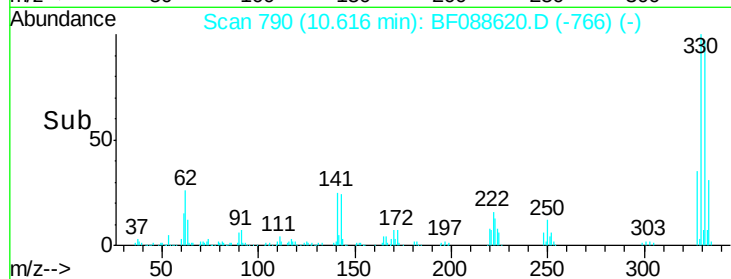
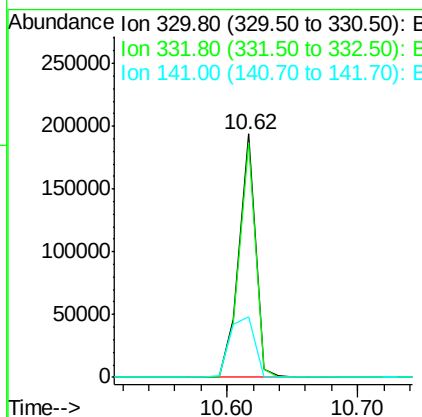
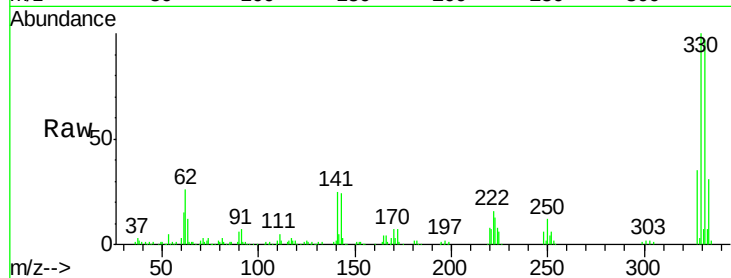
#41  
 2,4,6-Tribromophenol  
 Concen: 97.82 ng  
 RT: 10.62 min Scan# 790  
 Delta R.T. -0.02 min  
 Lab File: BF088620.D  
 Acq: 2 Jul 2016 16:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L8-B1(0-12)C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 170475 |       |       |
| 332     | 96.0  | 0.0    | 0.0   | 0.0   |
| 141     | 37.4  | 0.0    | 0.0   | 0.0   |

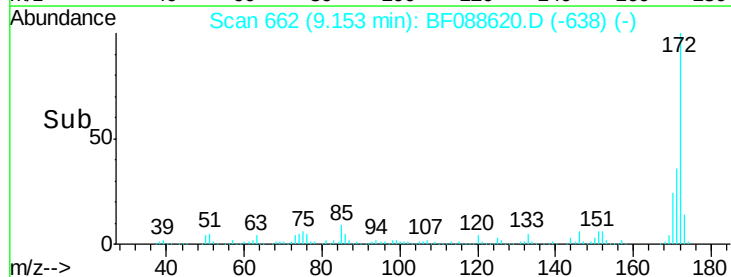
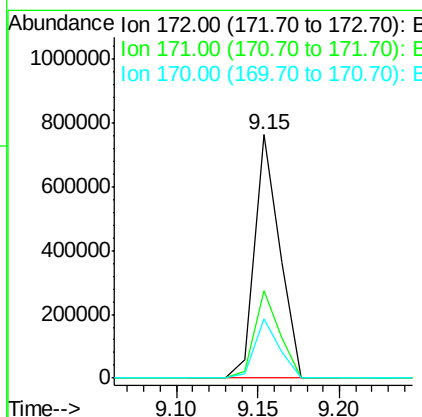
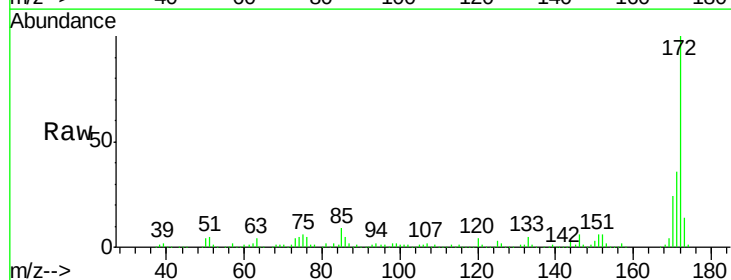
Manual Integrations

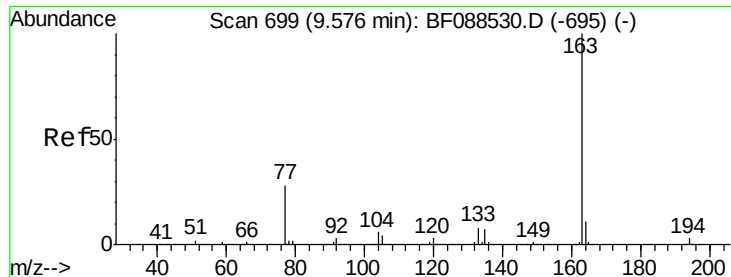
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#44  
 2-Fluorobiphenyl  
 Concen: 68.58 ng  
 RT: 9.15 min Scan# 662  
 Delta R.T. -0.02 min  
 Lab File: BF088620.D  
 Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 814808 |       |       |
| 171     | 36.1  | 28.6   | 43.0  |       |
| 170     | 24.1  | 19.2   | 28.8  |       |





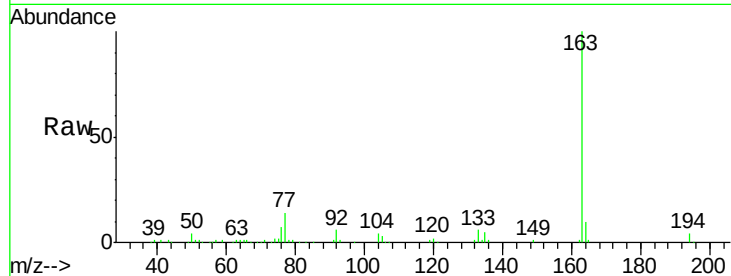
#49  
Dimethylphthalate  
Concen: 10.80 ng  
RT: 9.55 min Scan# 697  
Delta R.T. -0.02 min  
Lab File: BF088620.D  
Acq: 2 Jul 2016 16:40

Instrument :  
BNA\_F  
ClientSampleId :  
L8-B1(0-12)C

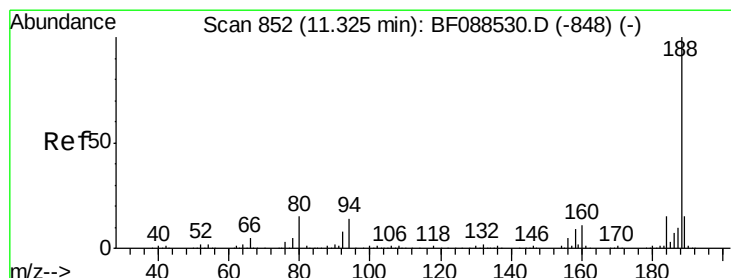
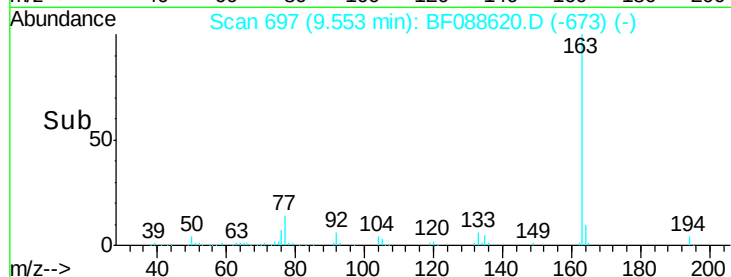
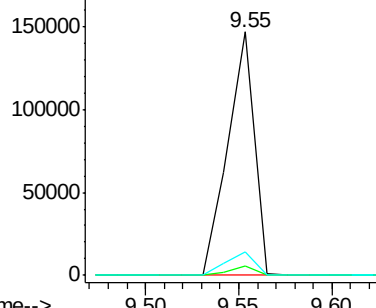
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 2.8   | 4.2   |
| 164     | 9.8   | 8.3   | 12.5  |

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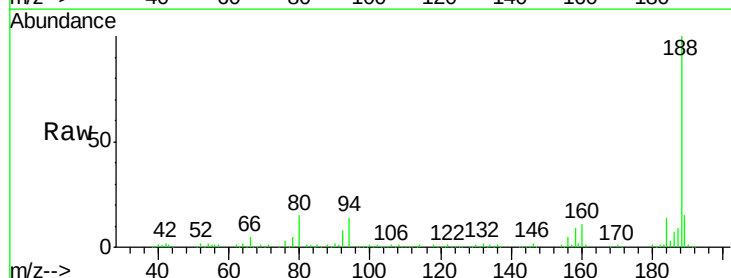


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

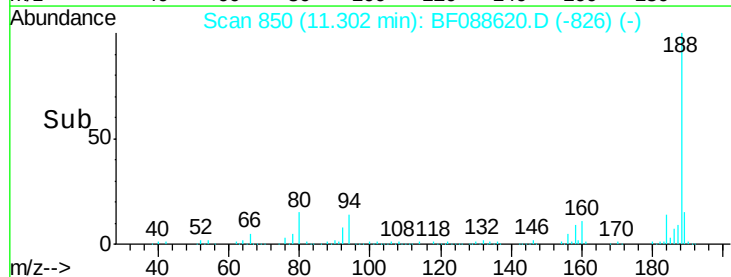
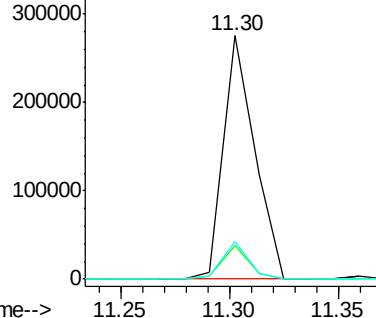


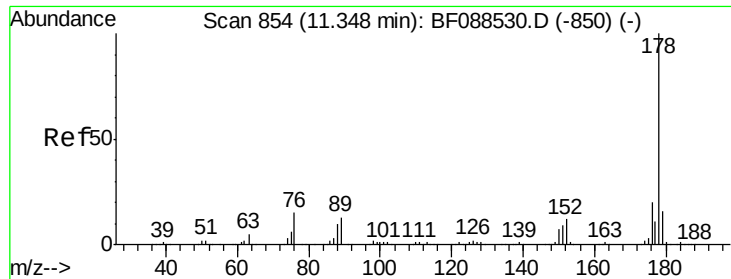
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.30 min Scan# 850  
Delta R.T. -0.02 min  
Lab File: BF088620.D  
Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 13.8  | 9.0   | 13.6# |
| 80      | 15.5  | 10.0  | 15.0# |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0





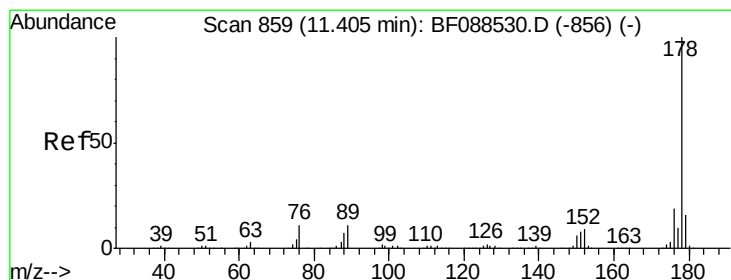
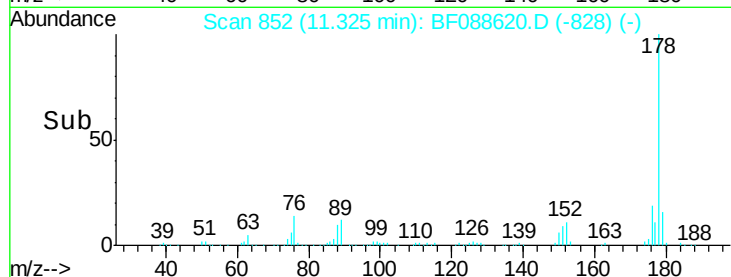
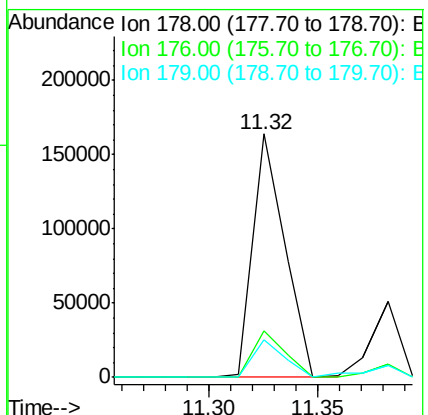
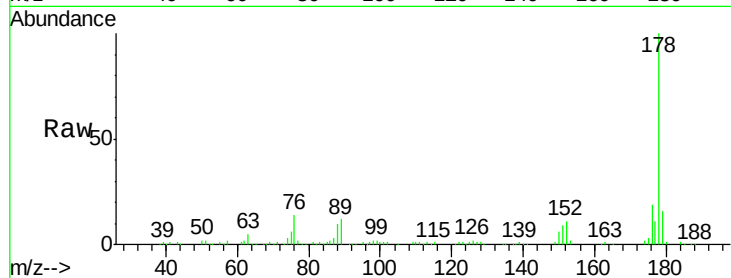
#70  
Phenanthrene  
Concen: 11.20 ng  
RT: 11.32 min Scan# 852  
Delta R.T. -0.02 min  
Lab File: BF088620.D  
Acq: 2 Jul 2016 16:40

Instrument :  
BNA\_F  
ClientSampleId :  
L8-B1(0-12)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 15.8  | 23.6  |
| 179     | 15.6  | 13.0  | 19.4  |

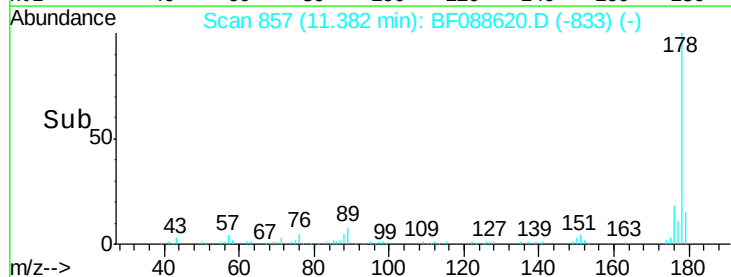
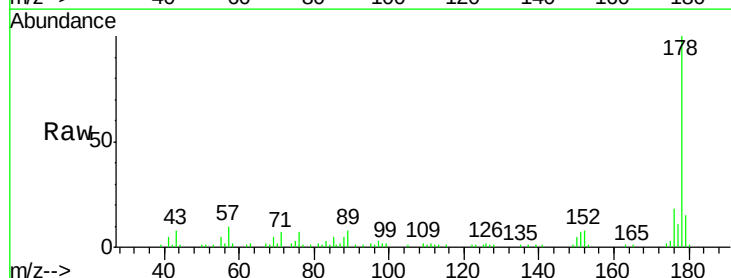
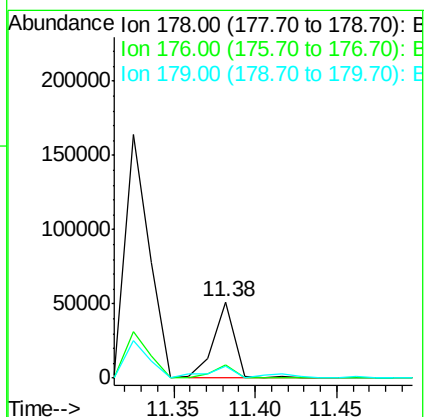
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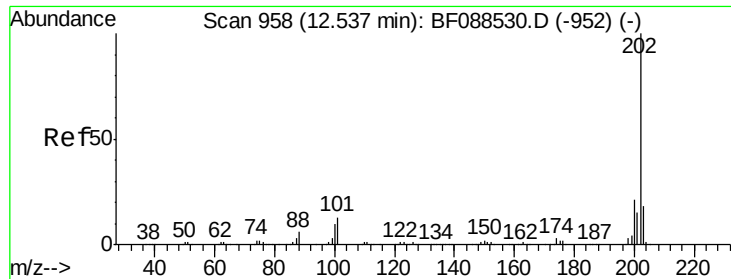


#71  
Anthracene  
Concen: 3.06 ng  
RT: 11.38 min Scan# 857  
Delta R.T. -0.02 min  
Lab File: BF088620.D  
Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.8  | 15.6  | 23.4  |
| 179     | 15.2  | 12.8  | 19.2  |







#74

Fluoranthene

Concen: 14.14 ng

RT: 12.51 min Scan# 956

Delta R.T. -0.02 min

Lab File: BF088620.D

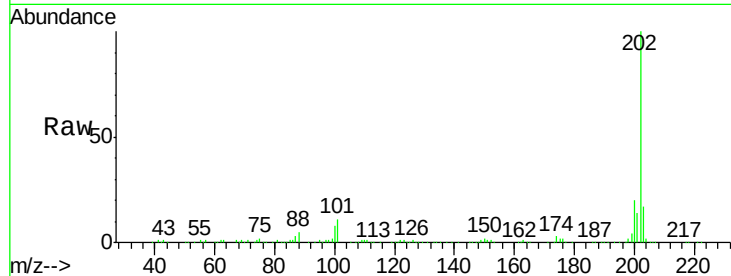
Acq: 2 Jul 2016 16:40

Instrument :

BNA\_F

ClientSampleId :

L8-B1(0-12)C

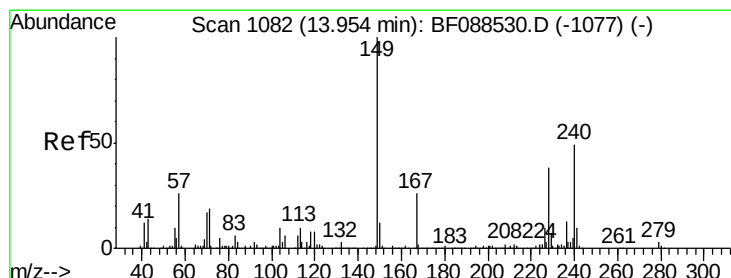
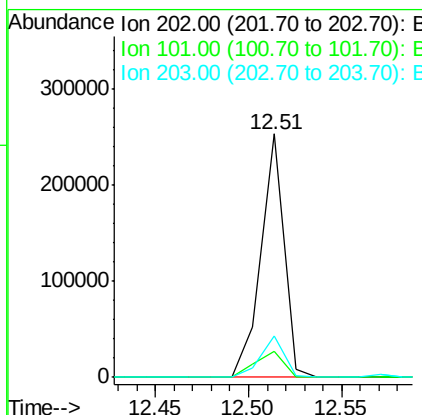
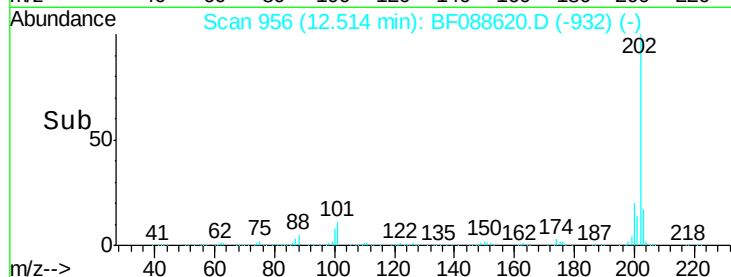


| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 215941 |       |       |
| 101     | 10.8  | 0.0    | 33.1  |       |
| 203     | 17.3  | 0.0    | 38.1  |       |

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#75

Chrysene-d12

Concen: 20.00 ng

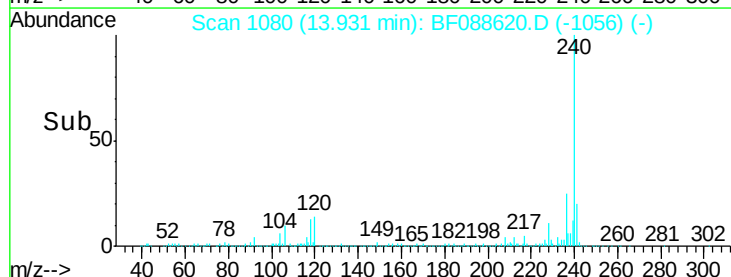
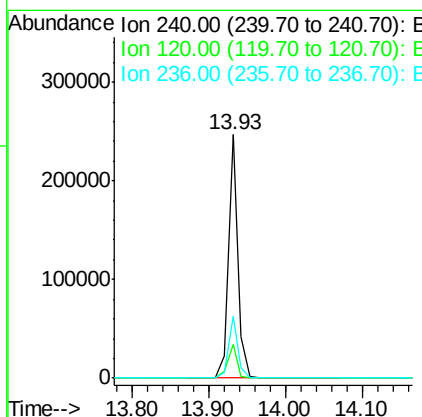
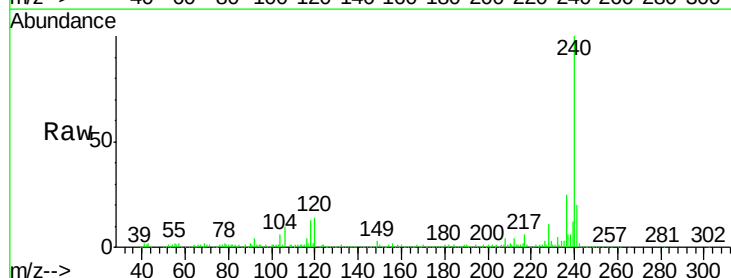
RT: 13.93 min Scan# 1080

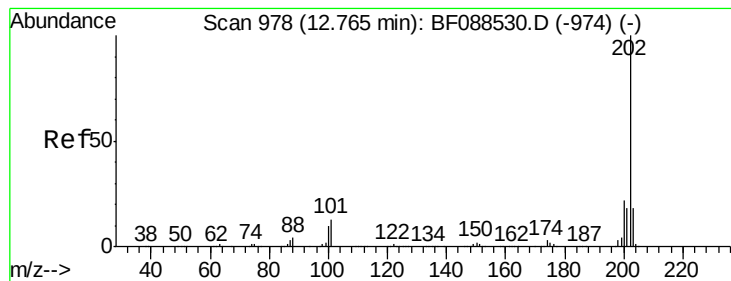
Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 218174 |       |       |
| 120     | 13.9  | 6.8    | 10.2# |       |
| 236     | 25.4  | 20.2   | 30.2  |       |





#77

Pyrene

Concen: 10.18 ng

RT: 12.74 min Scan# 976

Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

Instrument :

BNA\_F

ClientSampleId :

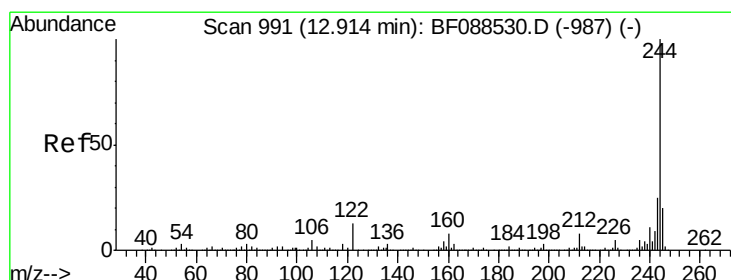
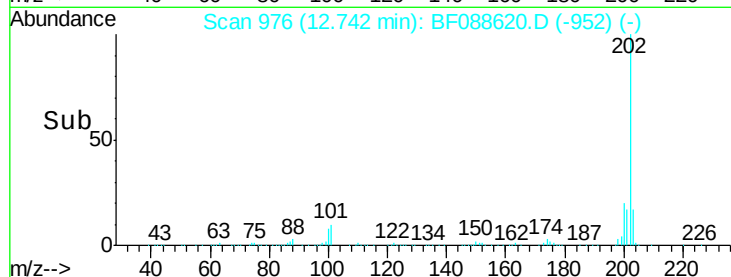
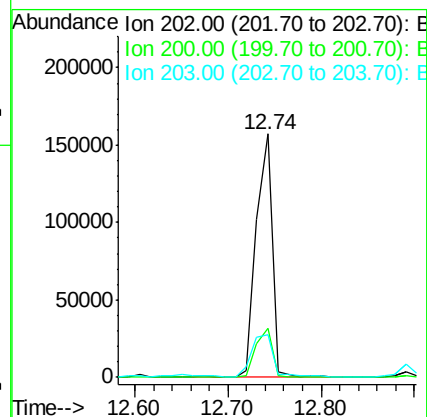
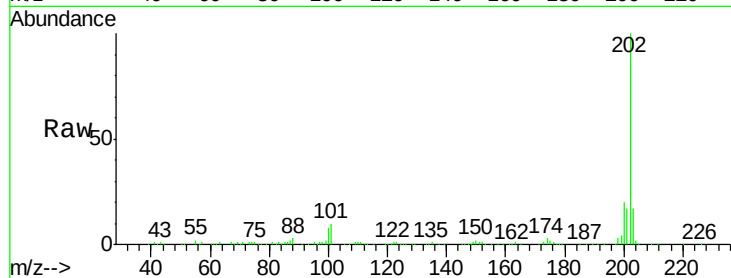
L8-B1(0-12)C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 188280 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.3  | 17.4  | 26.2   |
| 203       | 17.5  | 14.5  | 21.7   |

Manual Integrations

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#78

Terphenyl-d14

Concen: 51.41 ng

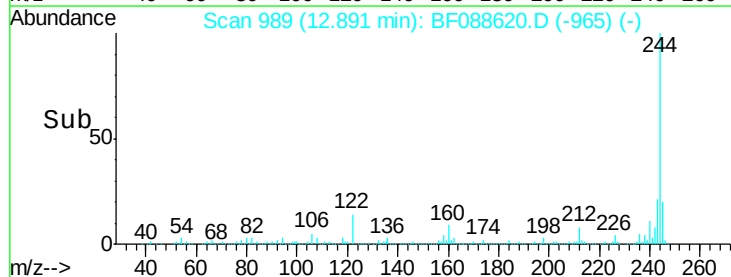
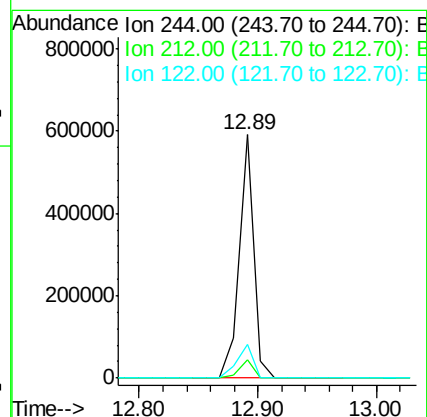
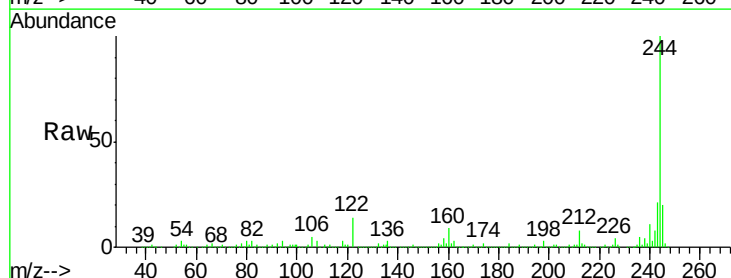
RT: 12.89 min Scan# 989

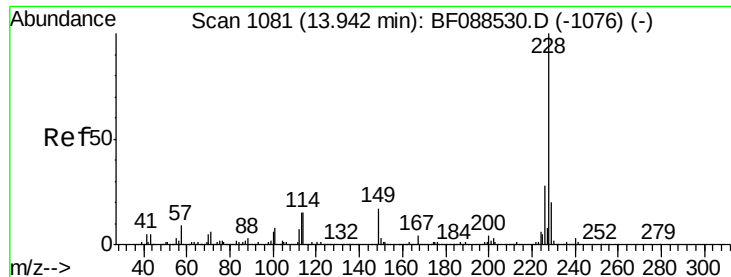
Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 503543 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.8   | 6.0   | 9.0    |
| 122       | 13.7  | 11.2  | 16.8   |





#80

Benzo(a)anthracene

Concen: 7.19 ng

RT: 13.92 min Scan# 1079

Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

Instrument :

BNA\_F

ClientSampleId :

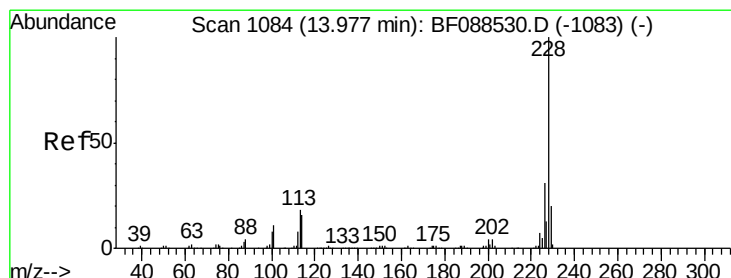
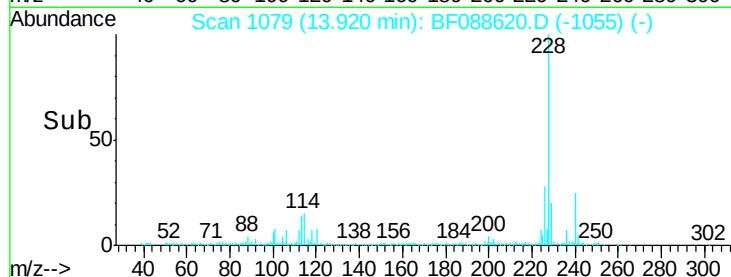
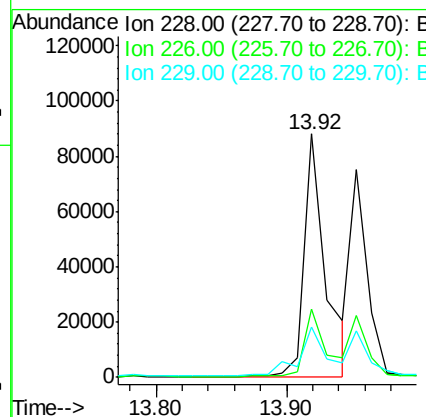
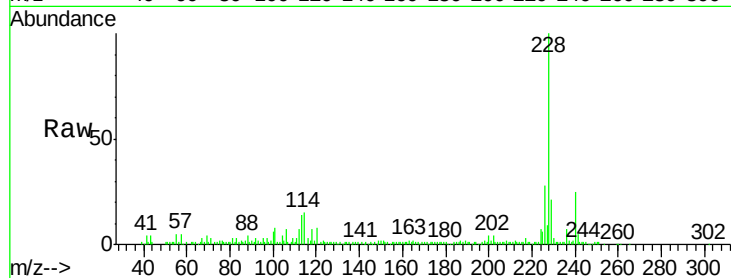
L8-B1(0-12)C

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 101011 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 28.2 | 22.3  | 33.5   |
| 229       | 20.8 | 16.0  | 24.0   |

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#82

Chrysene

Concen: 4.94 ng

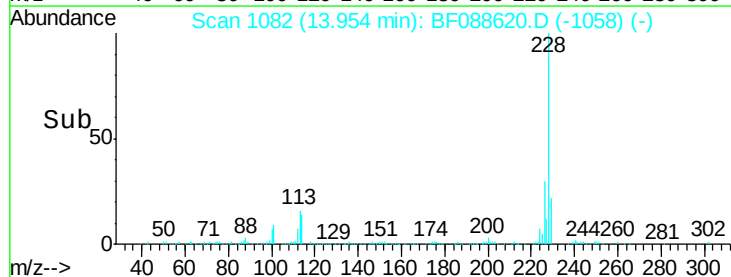
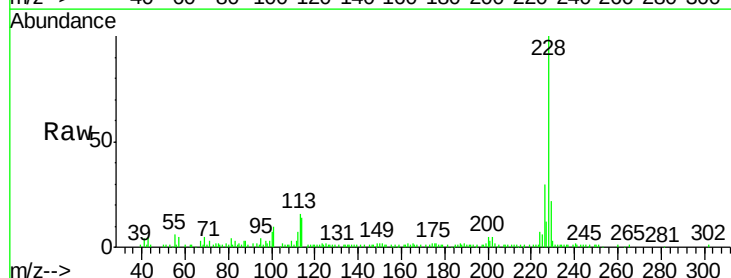
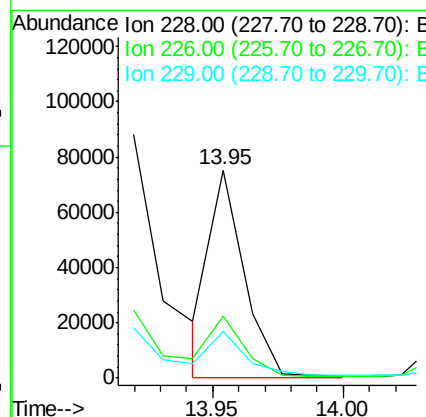
RT: 13.95 min Scan# 1082

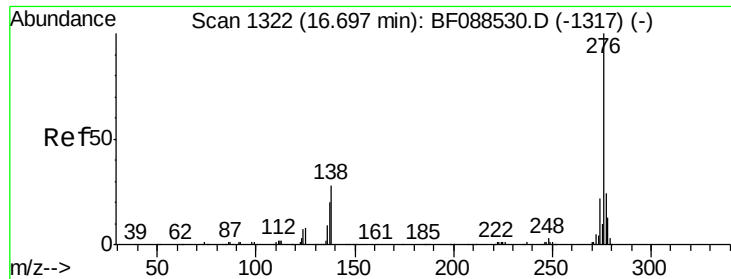
Delta R.T. -0.02 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 68695 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 29.8 | 25.4  | 38.2  |
| 229       | 22.4 | 16.3  | 24.5  |





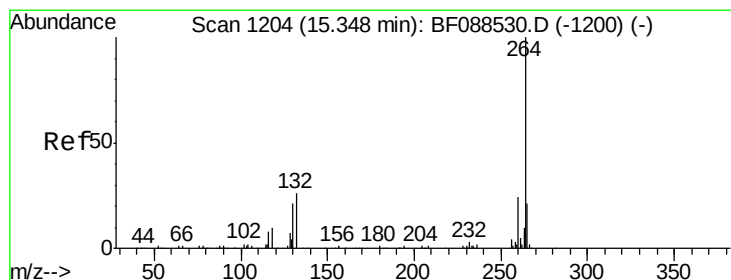
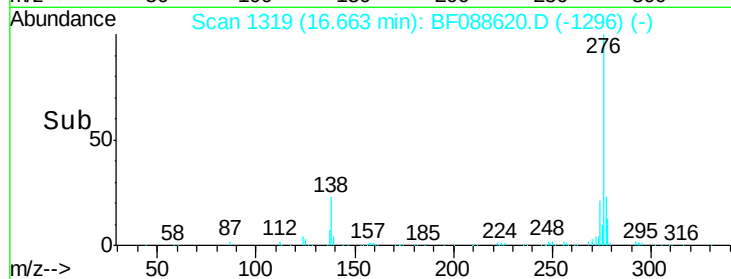
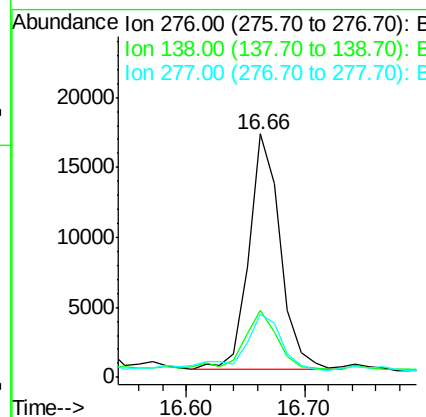
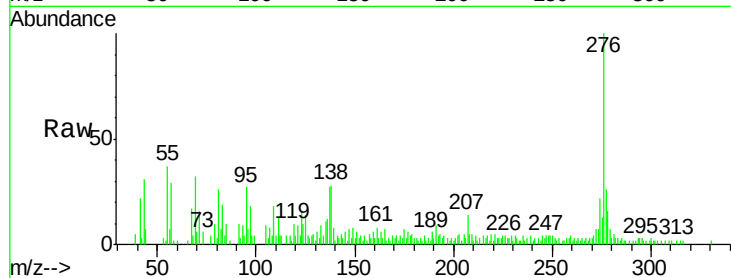
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.90 ng  
 RT: 16.66 min Scan# 1319  
 Delta R.T. -0.03 min  
 Lab File: BF088620.D  
 Acq: 2 Jul 2016 16:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L8-B1(0-12)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.2  | 0.0   | 0.0#  |
| 277     | 31.0  | 0.0   | 0.0#  |

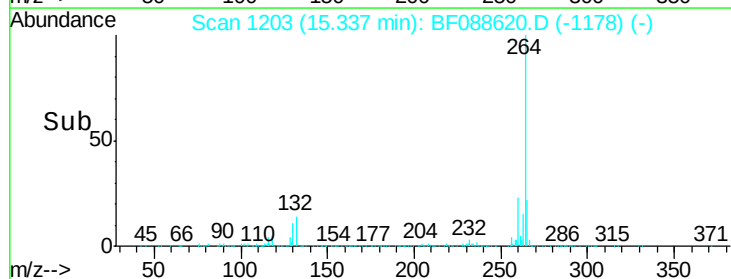
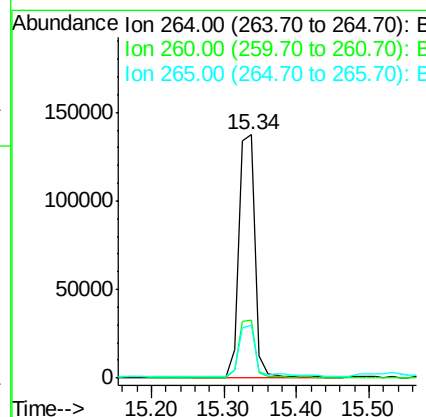
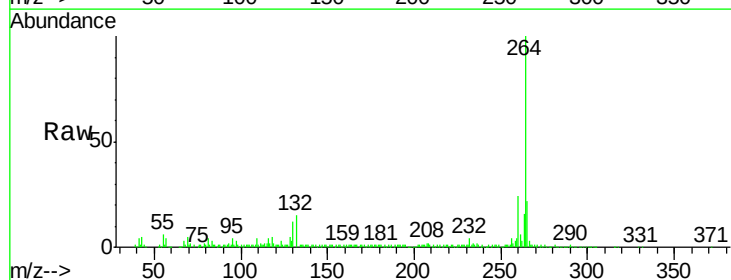
Manual Integrations

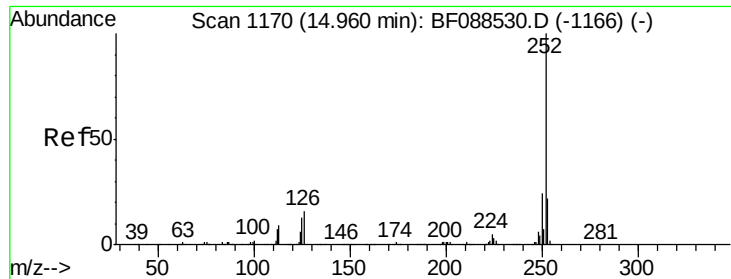
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.34 min Scan# 1203  
 Delta R.T. -0.01 min  
 Lab File: BF088620.D  
 Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 21.9  | 16.9  | 25.3  |





#87

Benzo(b)fluoranthene

Concen: 6.83 ng m

RT: 14.94 min Scan# 1168

Delta R.T. -0.02 min

Lab File: BF088620.D

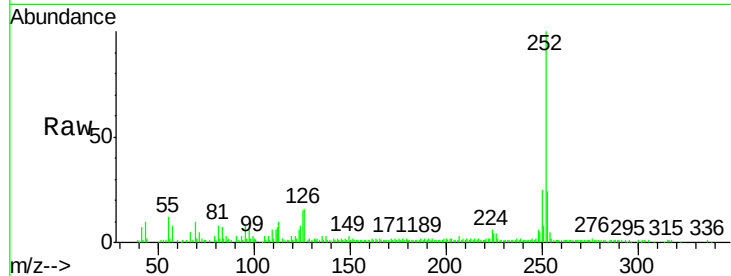
Acq: 2 Jul 2016 16:40

Instrument :

BNA\_F

ClientSampleId :

L8-B1(0-12)C

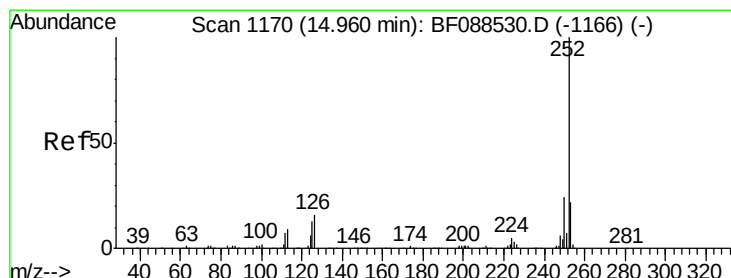
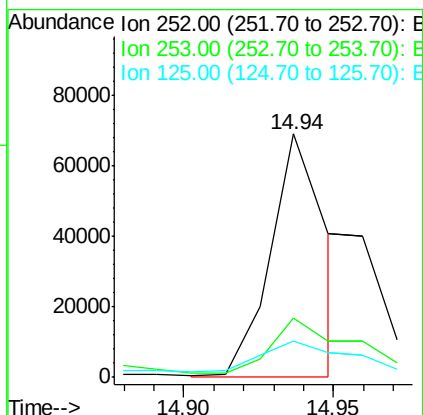
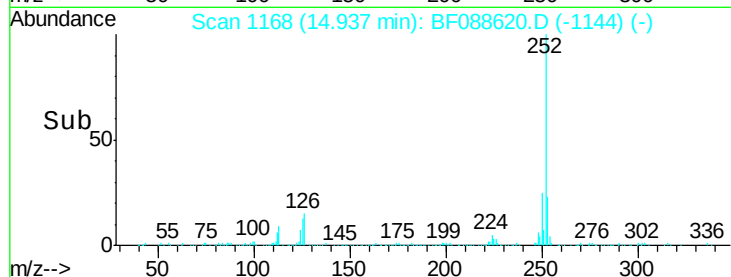


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 17.4  | 26.2  |
| 125     | 14.9  | 7.1   | 10.7  |

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#88

Benzo(k)fluoranthene

Concen: 3.21 ng m

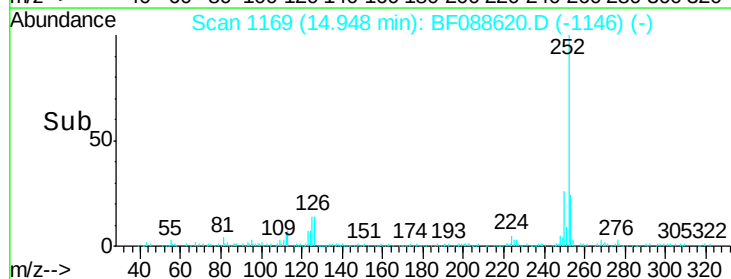
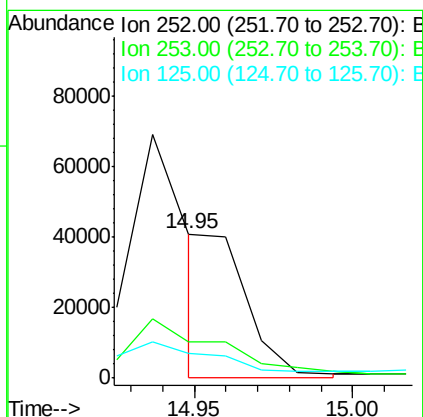
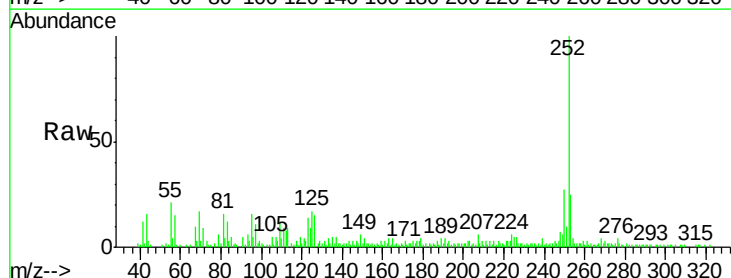
RT: 14.95 min Scan# 1169

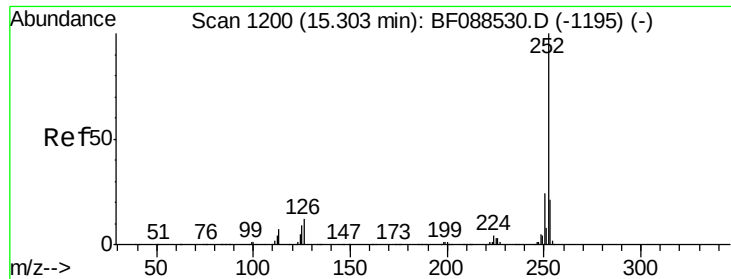
Delta R.T. -0.03 min

Lab File: BF088620.D

Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 18.0  | 27.0  |
| 125     | 17.3  | 11.2  | 16.8  |





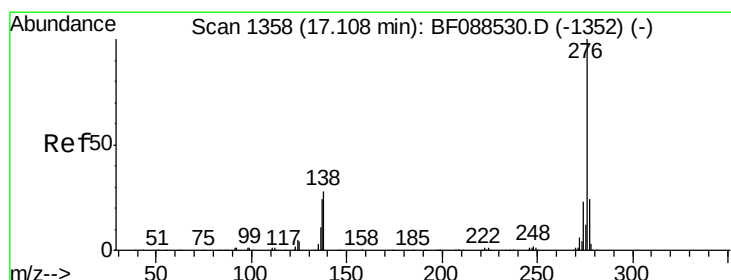
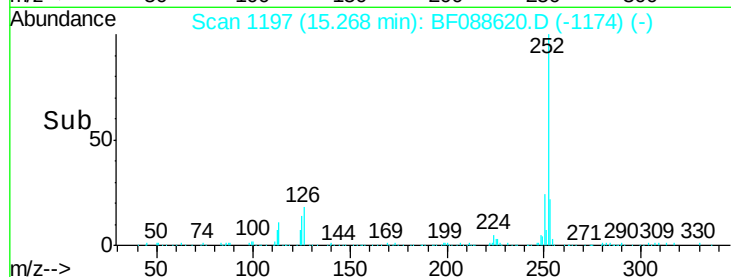
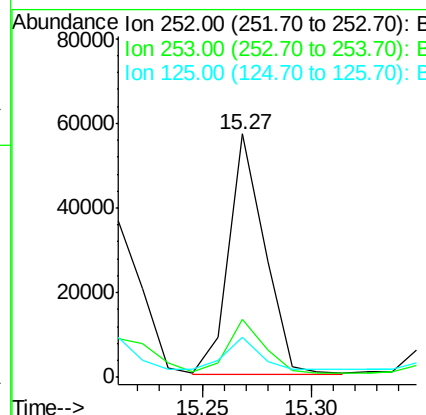
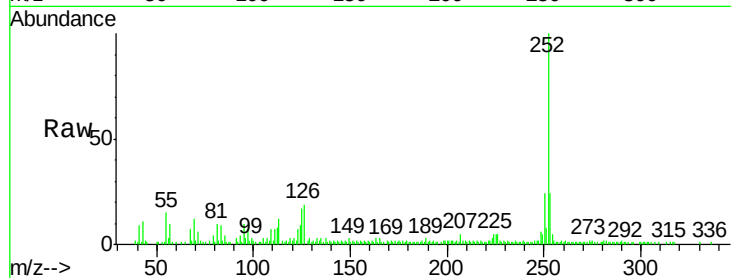
#89  
Benzo(a)pyrene  
Concen: 5.87 ng  
RT: 15.27 min Scan# 1197  
Delta R.T. -0.03 min  
Lab File: BF088620.D  
Acq: 2 Jul 2016 16:40

Instrument :  
BNA\_F  
ClientSampleId :  
L8-B1(0-12)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.9  | 26.9  |
| 125     | 16.7  | 12.5  | 18.7  |

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#91  
Benzo(g,h,i)perylene  
Concen: 3.16 ng  
RT: 17.06 min Scan# 1354  
Delta R.T. -0.05 min  
Lab File: BF088620.D  
Acq: 2 Jul 2016 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.4  | 18.9  | 28.3  |
| 138     | 29.4  | 21.4  | 32.2  |

