

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF083116\  
 Data File : BF089950.D  
 Acq On : 31 Aug 2016 15:08  
 Operator : UM/SJ  
 Sample : H4619-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CAM-GENERAL-FILL

Manual Integrations  
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SOHIL  
 9/1/2016 11:53:54 AM

Quant Time: Aug 31 18:00:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF083116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 31 11:55:18 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.64  | 152  | 236276   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.92  | 136  | 901863   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.67  | 164  | 449092   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.13 | 188  | 676142   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 13.75 | 240  | 578278   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.10 | 264  | 567806   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.21  | 112  | 1174309  | 79.55 | ng    | 0.00     |
| 7) Phenol-d6                | 6.27  | 99   | 1496300  | 83.42 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.20  | 82   | 805767   | 51.82 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.44 | 330  | 274375   | 61.93 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.00  | 172  | 1595556  | 58.32 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.72 | 244  | 1137125  | 48.58 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.39  | 163  | 551645   | 17.00 | ng    | 100      |
| 70) Phenanthrene            | 11.15 | 178  | 145334   | 4.32  | ng    | 97       |
| 74) Fluoranthene            | 12.33 | 202  | 285830   | 8.10  | ng    | 96       |
| 77) Pyrene                  | 12.56 | 202  | 269429   | 6.61  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.74 | 228  | 190630   | 5.38  | ng    | # 93     |
| 82) Chrysene                | 13.77 | 228  | 130841m  | 3.95  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.32 | 276  | 92000    | 3.76  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 14.73 | 252  | 205296m  | 5.77  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.74 | 252  | 88620m   | 2.94  | ng    |          |
| 89) Benzo(a)pyrene          | 15.04 | 252  | 155400   | 5.10  | ng    | # 93     |
| 91) Benzo(g,h,i)perylene    | 16.69 | 276  | 85381    | 3.80  | ng    | 96       |

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

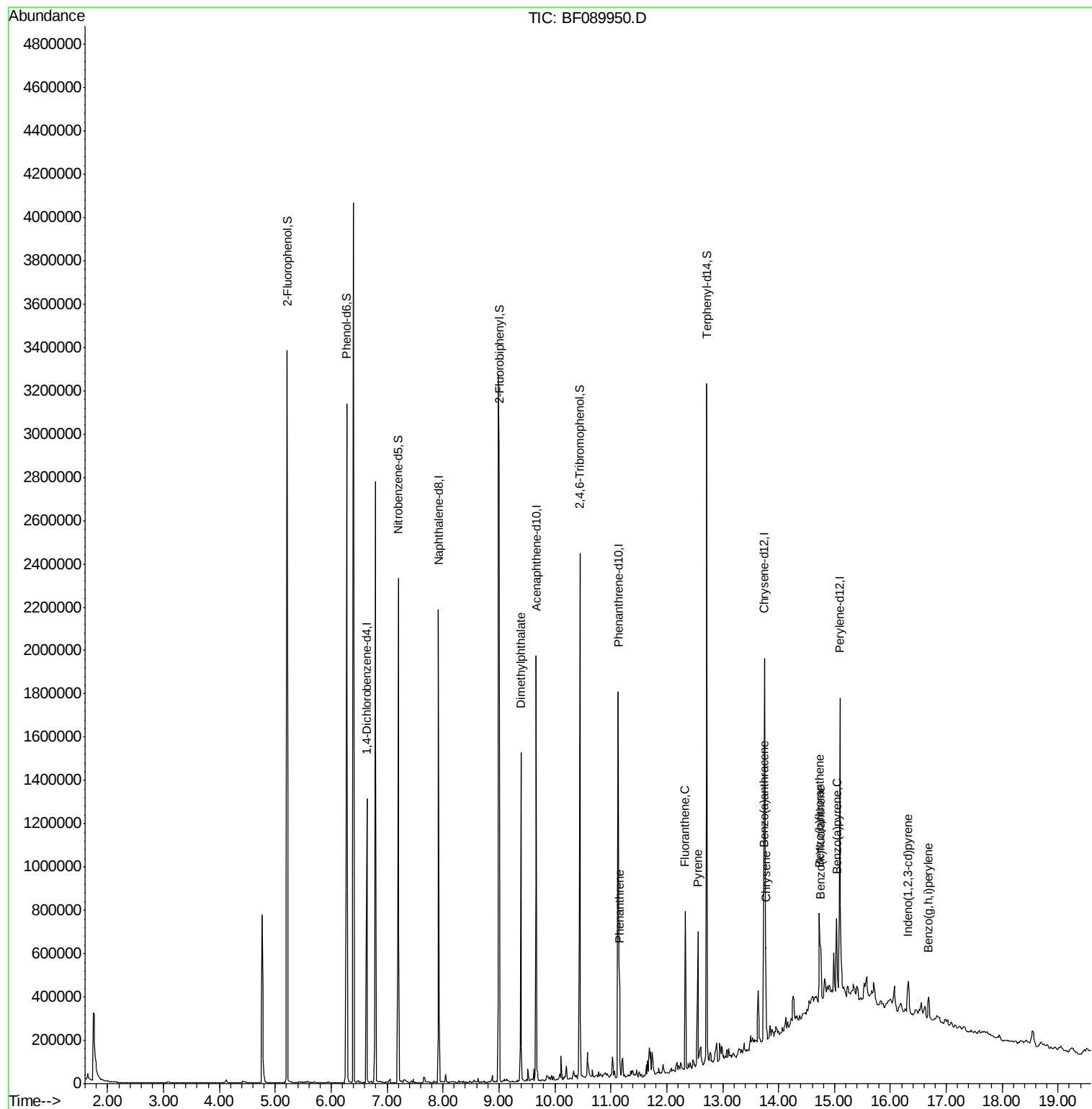
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF083116\  
Data File : BF089950.D  
Acq On : 31 Aug 2016 15:08  
Operator : UM/SJ  
Sample : H4619-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

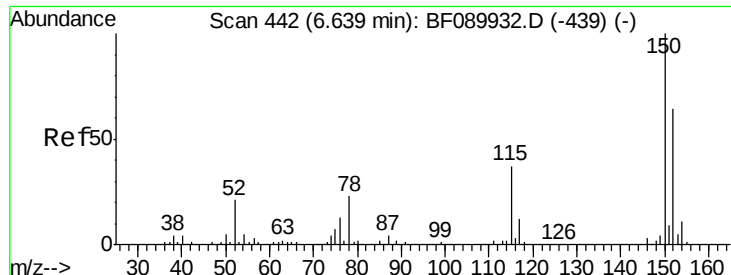
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Aug 31 18:00:13 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF083116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 31 11:55:18 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 442

Delta R.T. -0.00 min

Lab File: BF089950.D

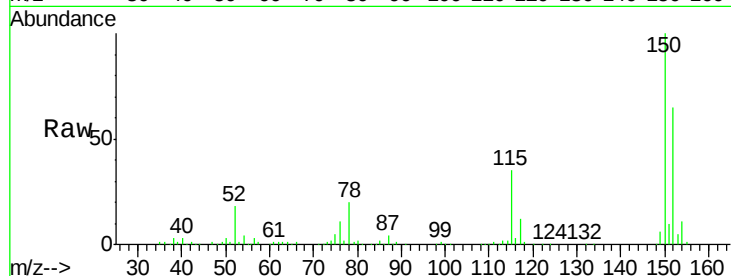
Acq: 31 Aug 2016 15:08

Instrument :

BNA\_F

ClientSampleId :

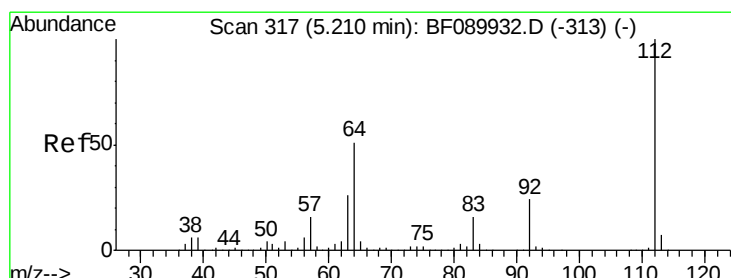
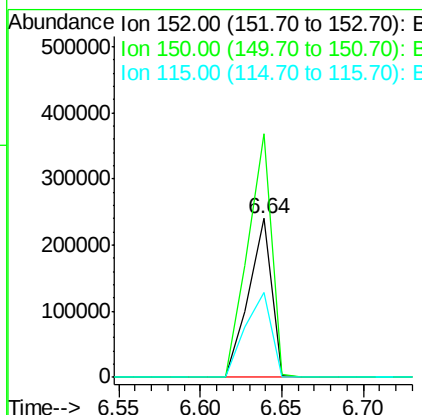
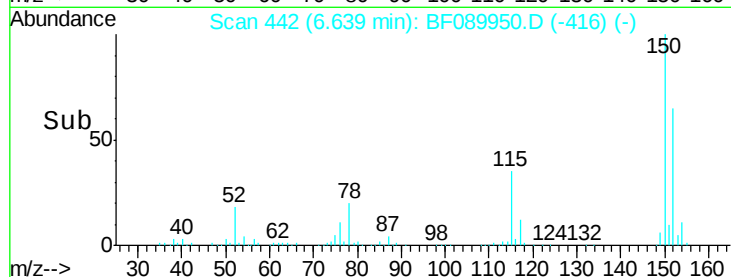
CAM-GENERAL-FILL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 236276 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 153.3 | 127.4 | 191.2  |
| 115       | 53.5  | 46.3  | 69.5   |

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#5

2-Fluorophenol

Concen: 79.55 ng

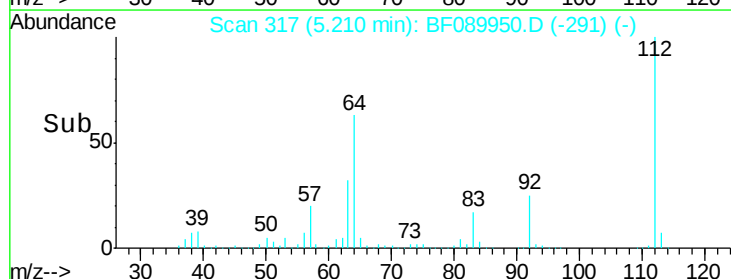
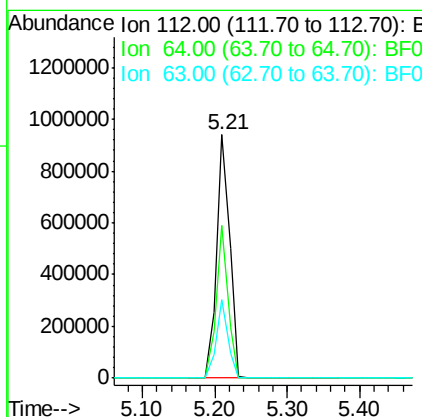
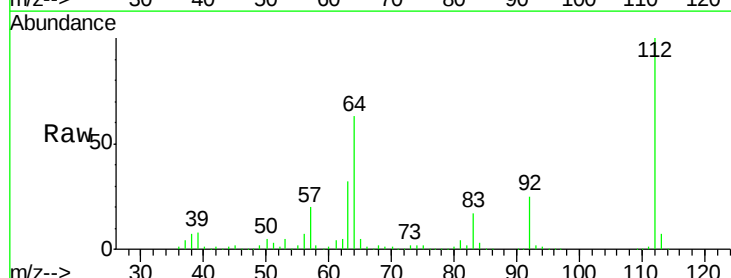
RT: 5.21 min Scan# 317

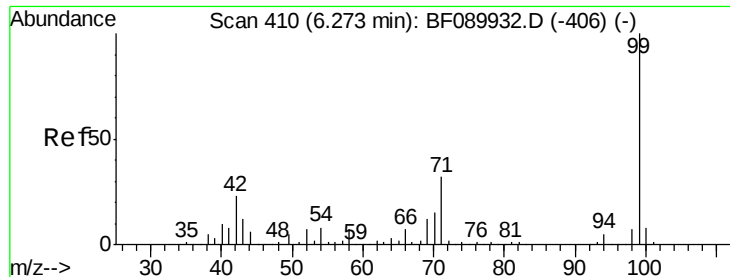
Delta R.T. -0.00 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 112   | Resp: | 1174309 |
| Ion Ratio | Lower | Upper |         |
| 112       | 100   |       |         |
| 64        | 62.6  | 41.1  | 61.7#   |
| 63        | 32.4  | 21.2  | 31.8#   |





#7

Phenol-d6

Concen: 83.42 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.00 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

Instrument :

BNA\_F

ClientSampleId :

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Tgt Ion: 99 Resp: 1496300

Ion Ratio Lower Upper

99 100

42 23.3 18.6 27.8

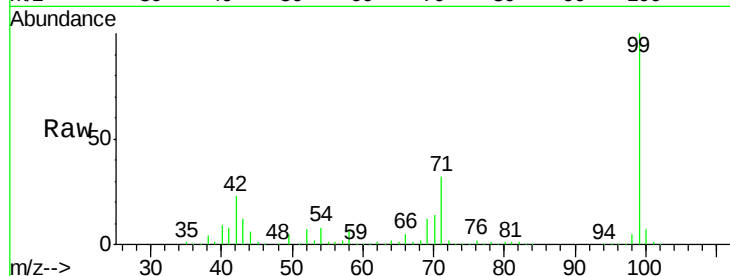
71 32.3 25.8 38.6

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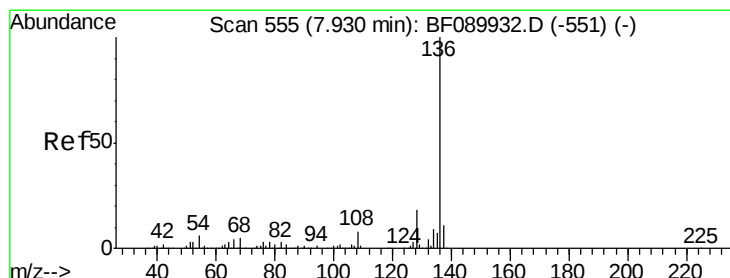
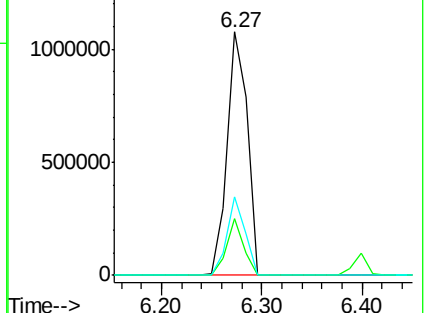
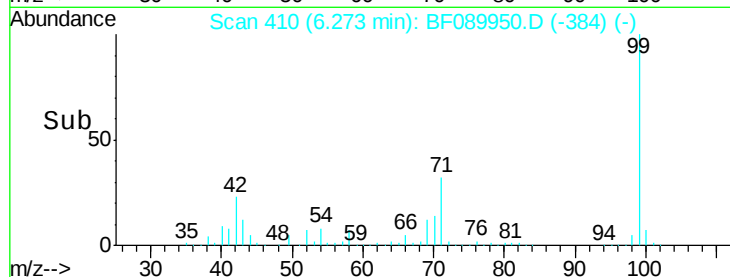
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

Tgt Ion: 136 Resp: 901863

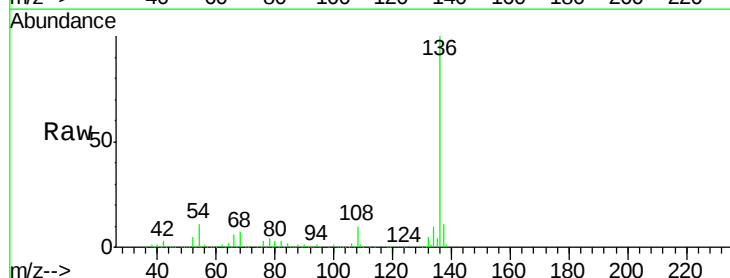
Ion Ratio Lower Upper

136 100

137 11.4 8.3 12.5

54 10.6 4.8 7.2#

68 7.1 3.7 5.5#

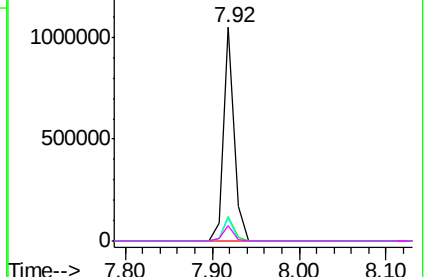
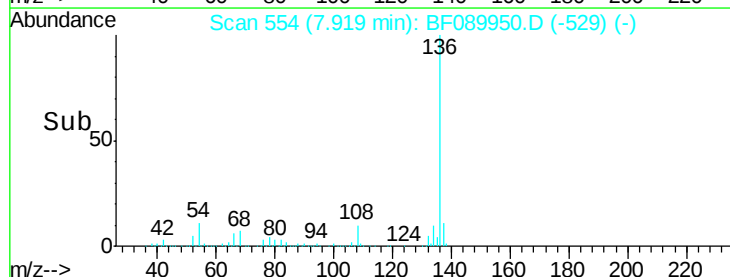


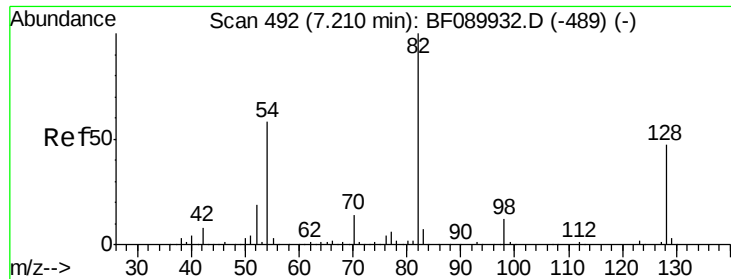
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





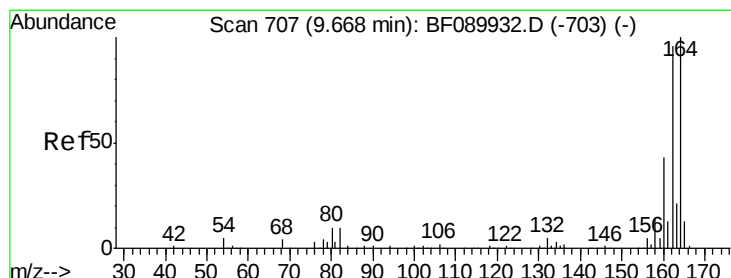
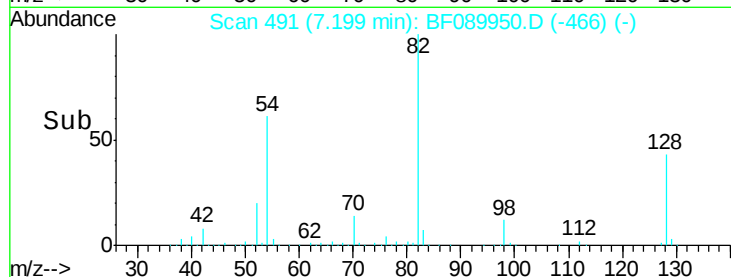
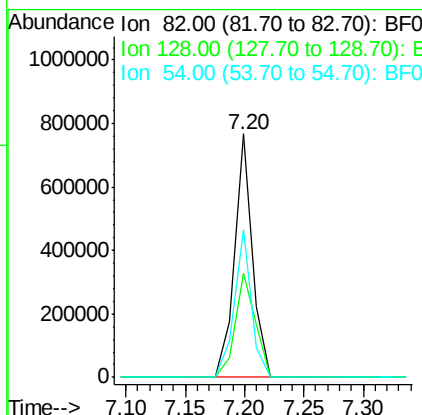
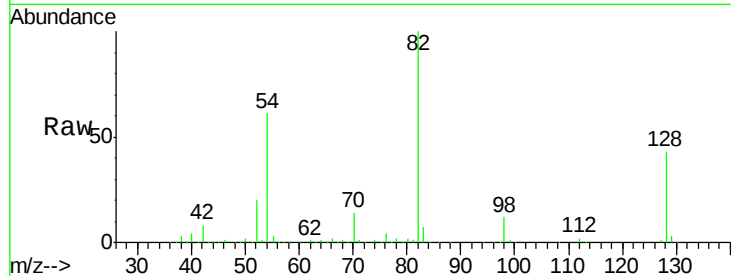
#23  
 Nitrobenzene-d5  
 Concen: 51.82 ng  
 RT: 7.20 min Scan# 491  
 Delta R.T. -0.01 min  
 Lab File: BF089950.D  
 Acq: 31 Aug 2016 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.9  | 37.8  | 56.8  |
| 54      | 60.7  | 46.9  | 70.3  |

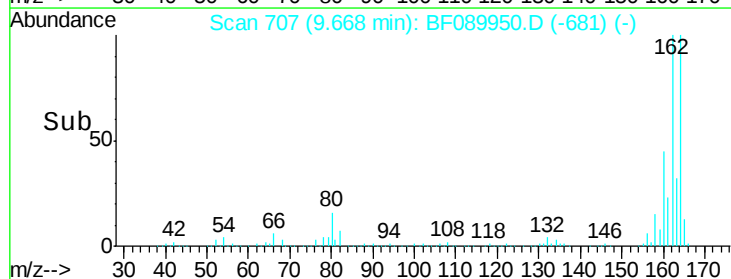
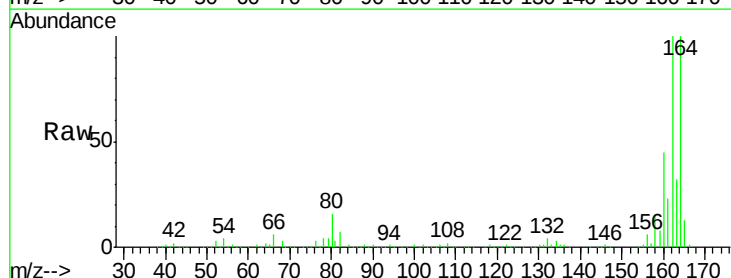
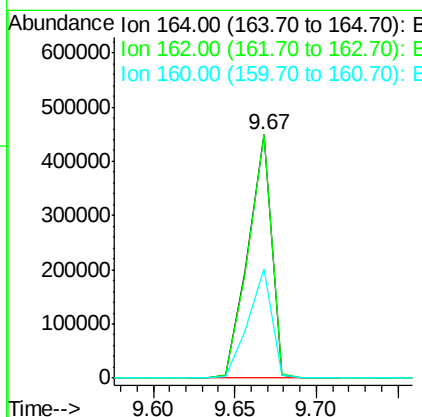
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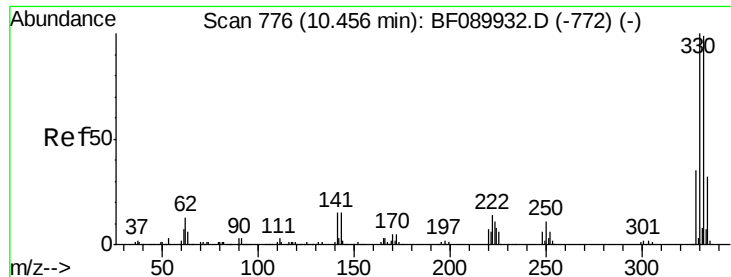
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.67 min Scan# 707  
 Delta R.T. -0.00 min  
 Lab File: BF089950.D  
 Acq: 31 Aug 2016 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.1 | 77.1  | 115.7 |
| 160     | 45.1  | 35.3  | 52.9  |





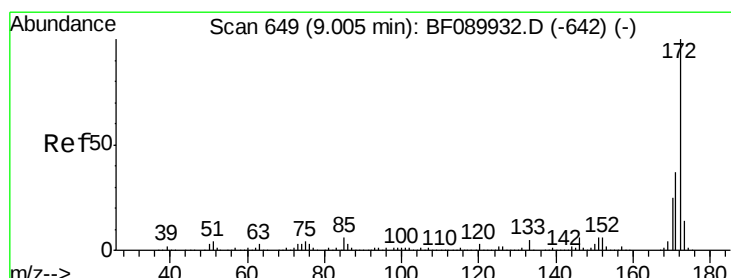
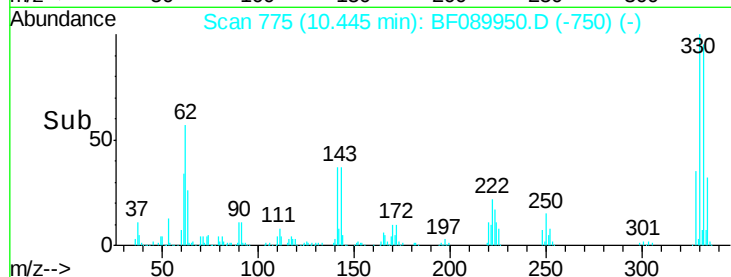
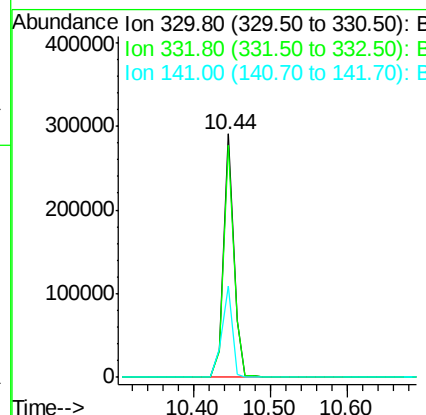
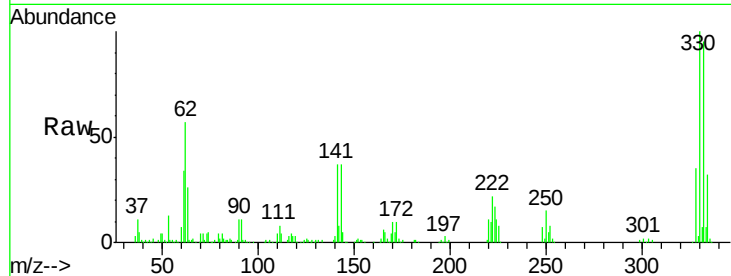
#41  
 2,4,6-Tribromophenol  
 Concen: 61.93 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.01 min  
 Lab File: BF089950.D  
 Acq: 31 Aug 2016 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 274375 |       |       |
| 332     | 96.2  | 78.6   | 117.8 |       |
| 141     | 37.4  | 23.3   | 34.9# |       |

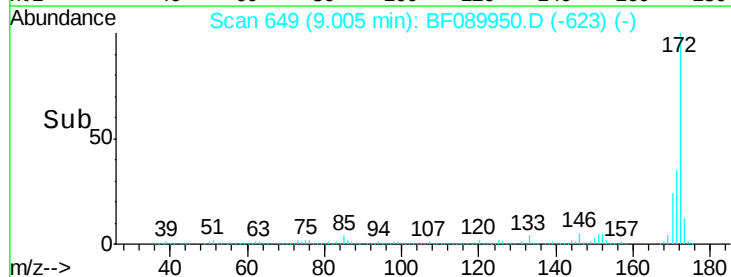
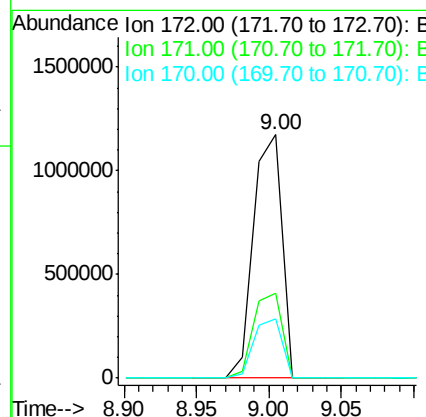
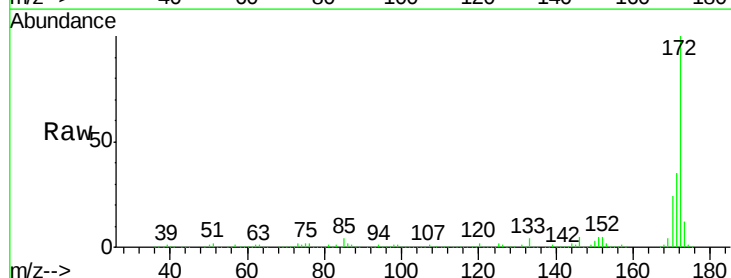
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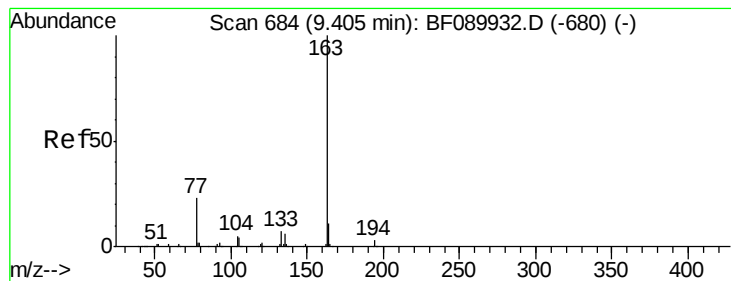
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#44  
 2-Fluorobiphenyl  
 Concen: 58.32 ng  
 RT: 9.00 min Scan# 649  
 Delta R.T. -0.00 min  
 Lab File: BF089950.D  
 Acq: 31 Aug 2016 15:08

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1595556 |       |       |
| 171     | 35.1  | 29.4    | 44.2  |       |
| 170     | 24.3  | 20.1    | 30.1  |       |





#49

Dimethylphthalate

Concen: 17.00 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

Instrument :

BNA\_F

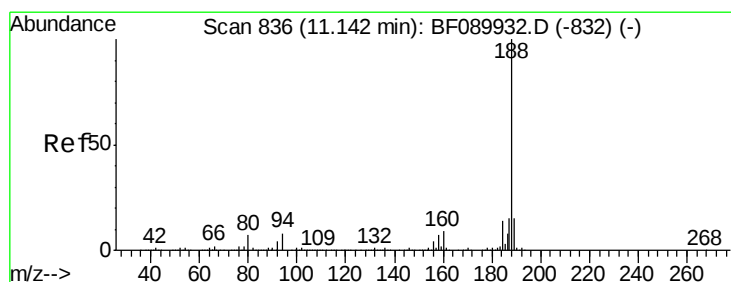
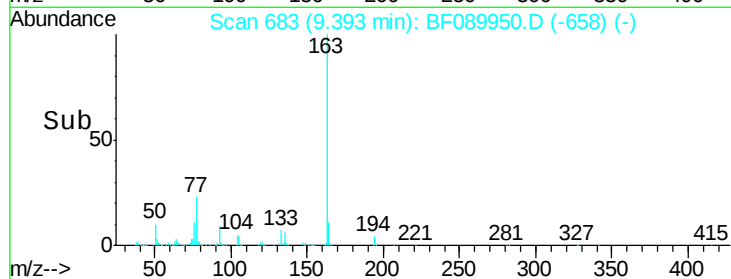
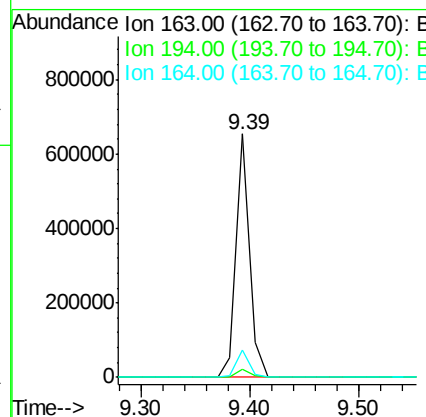
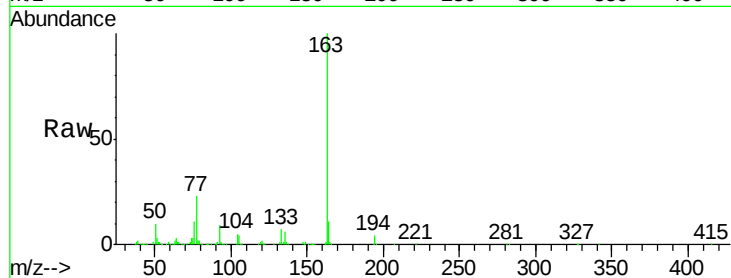
ClientSampleId :

CAM-GENERAL-FILL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 551645 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.5   | 2.7   | 4.1    |
| 164       | 11.2  | 9.0   | 13.4   |

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#63

Phenanthrene-d10

Concen: 20.00 ng

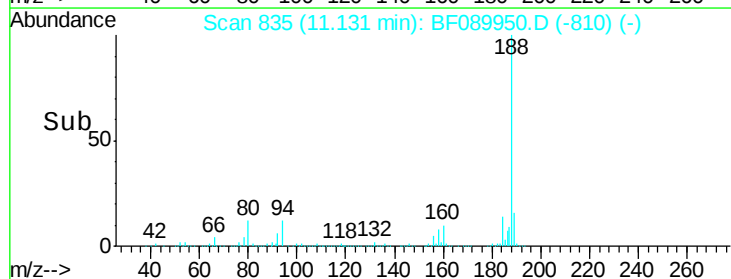
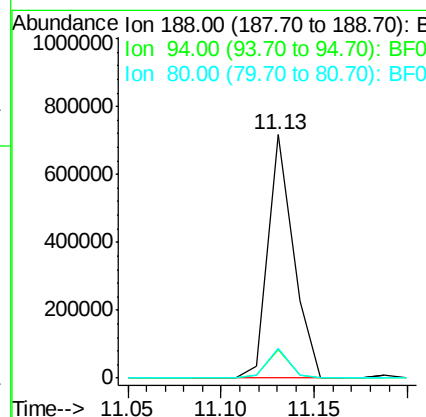
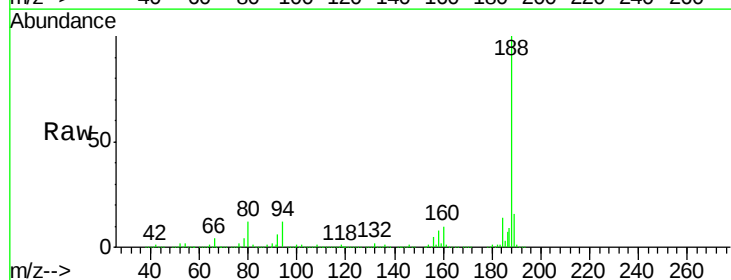
RT: 11.13 min Scan# 835

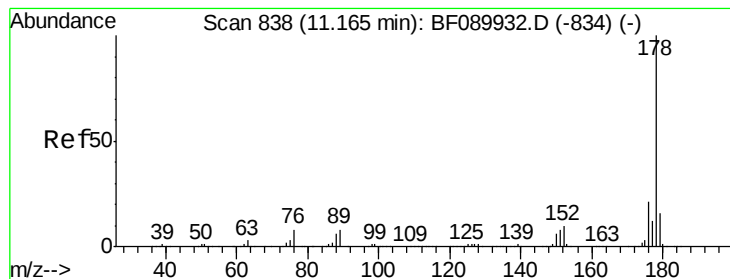
Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 676142 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.6  | 5.9   | 8.9#   |
| 80        | 12.0  | 5.8   | 8.8#   |





#70

Phenanthrene

Concen: 4.32 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.01 min

Lab File: BF089950.D

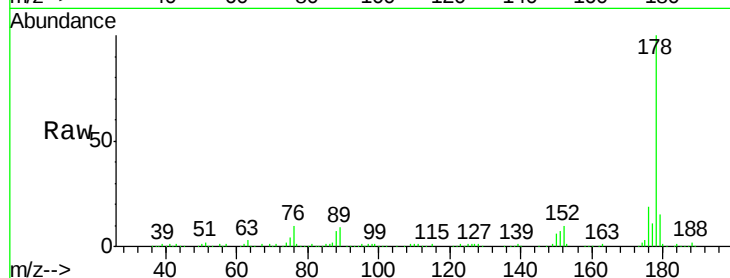
Acq: 31 Aug 2016 15:08

Instrument :

BNA\_F

ClientSampleId :

CAM-GENERAL-FILL



Tgt Ion:178 Resp: 145334

Ion Ratio Lower Upper

178 100

176 18.8 16.5 24.7

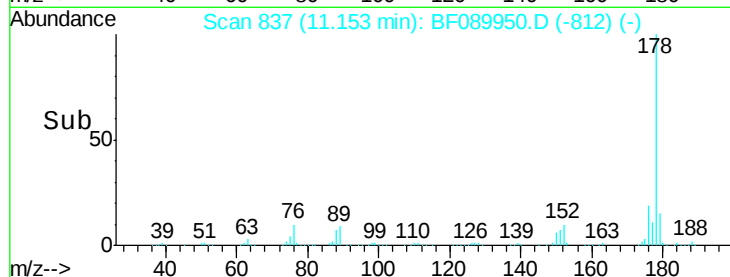
179 15.2 12.8 19.2

Manual Integrations

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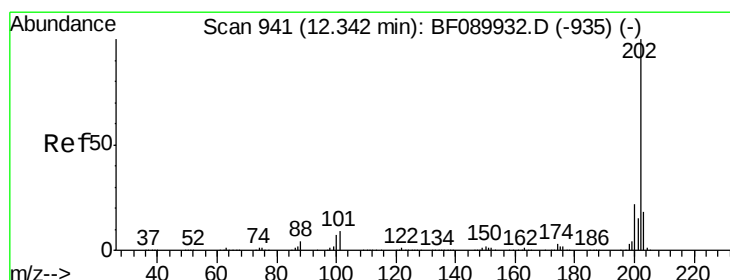
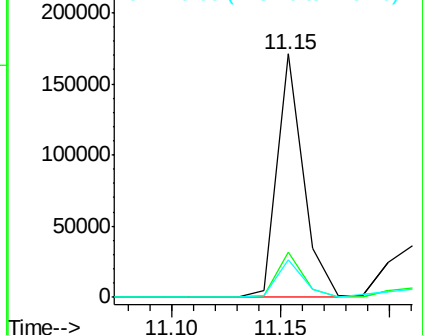
9/1/2016 11:53:54 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 8.10 ng

RT: 12.33 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

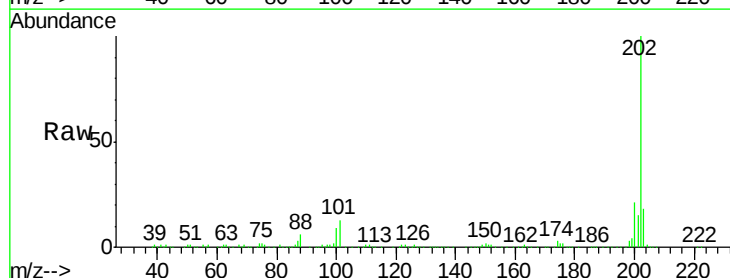
Tgt Ion:202 Resp: 285830

Ion Ratio Lower Upper

202 100

101 12.7 0.0 28.5

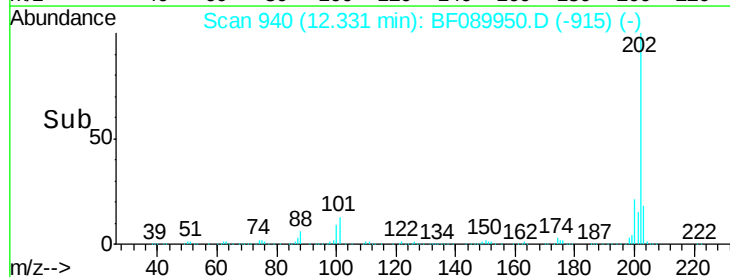
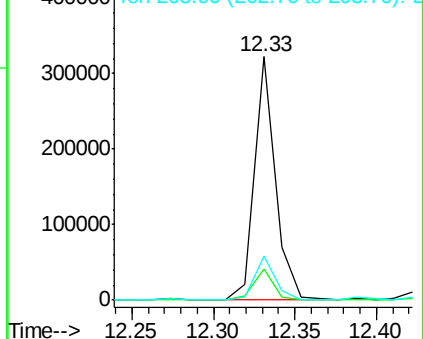
203 17.9 0.0 38.0

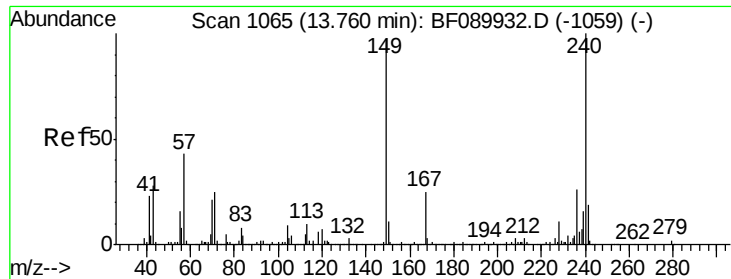


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

Instrument :

BNA\_F

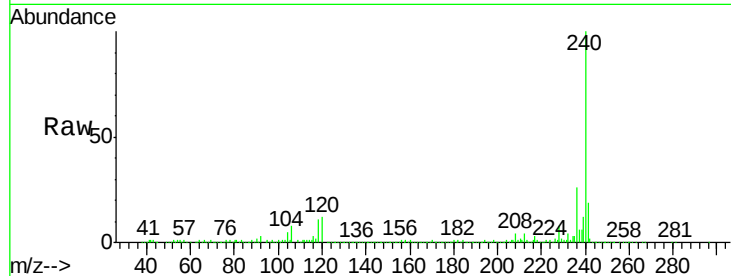
ClientSampleId :

CAM-GENERAL-FILL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.1  | 5.7   | 8.5#  |
| 236     | 26.3  | 21.3  | 31.9  |

Manual Integrations  
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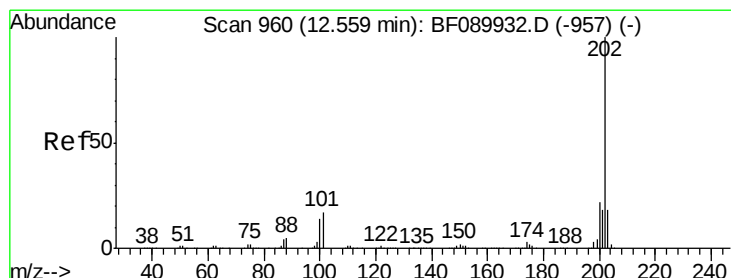
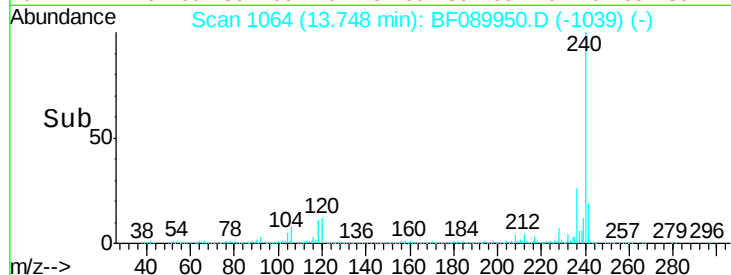
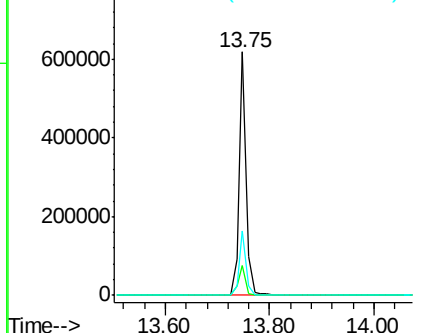
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 6.61 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.00 min

Lab File: BF089950.D

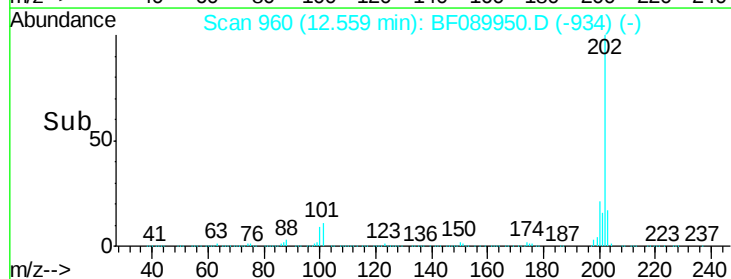
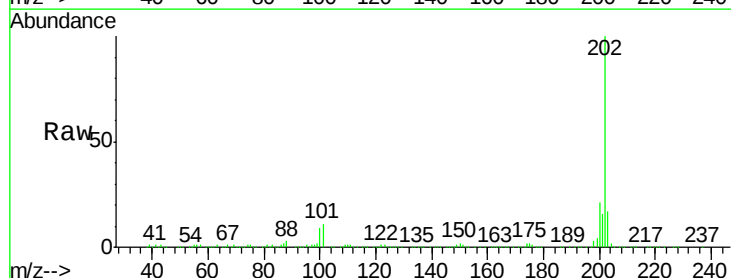
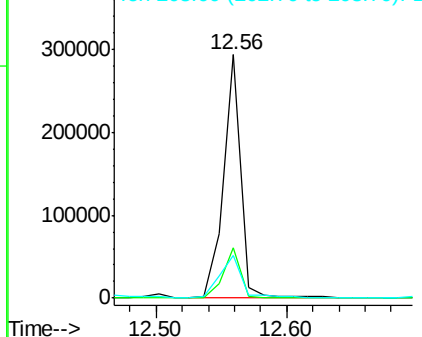
Acq: 31 Aug 2016 15:08

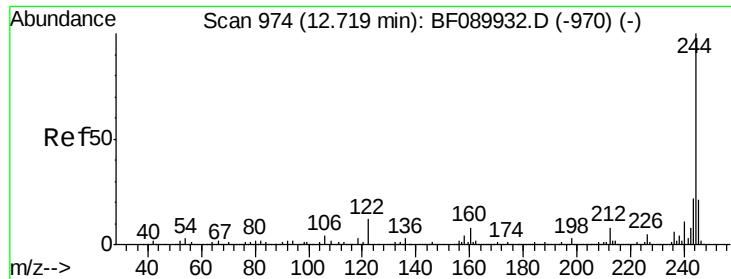
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 17.6  | 26.4  |
| 203     | 17.5  | 14.6  | 21.8  |

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





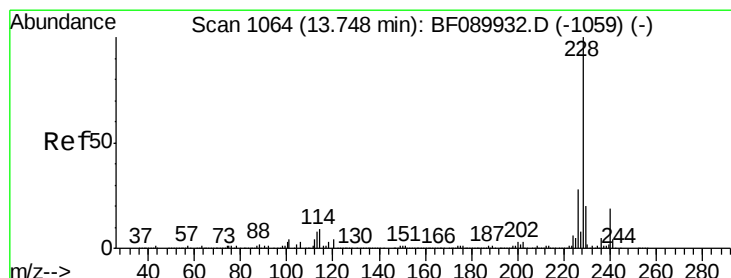
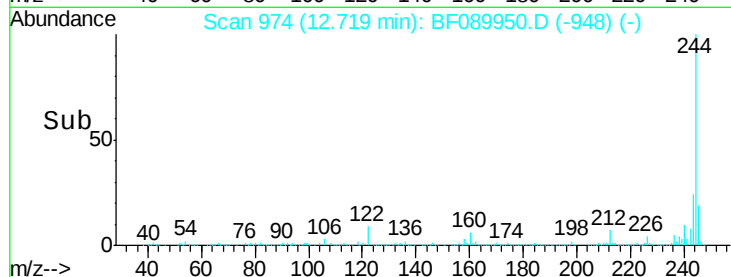
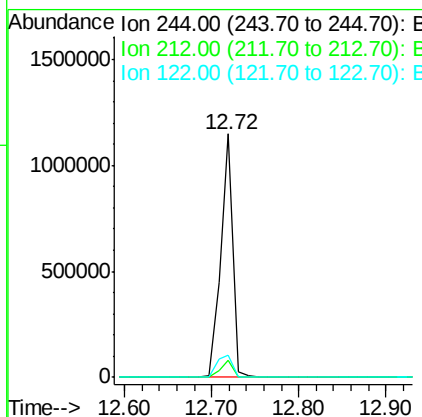
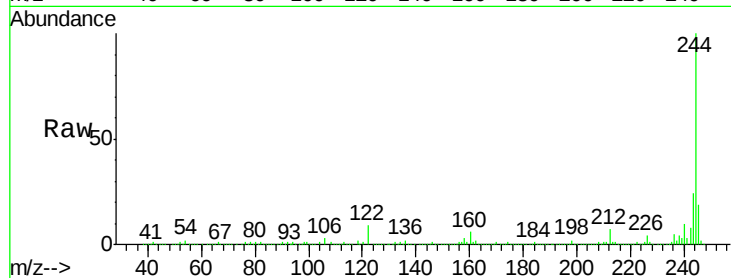
#78  
 Terphenyl-d14  
 Concen: 48.58 ng  
 RT: 12.72 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: BF089950.D  
 Acq: 31 Aug 2016 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CAM-GENERAL-FILL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.1   | 9.1   |
| 122     | 8.9   | 9.6   | 14.4# |

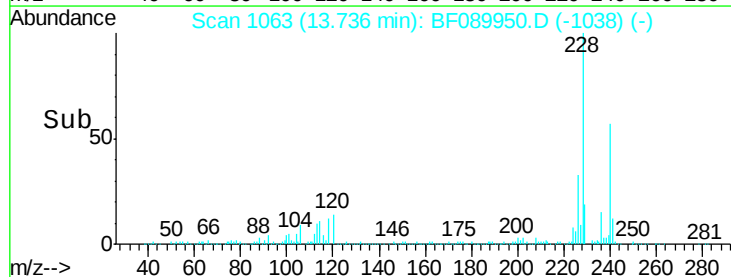
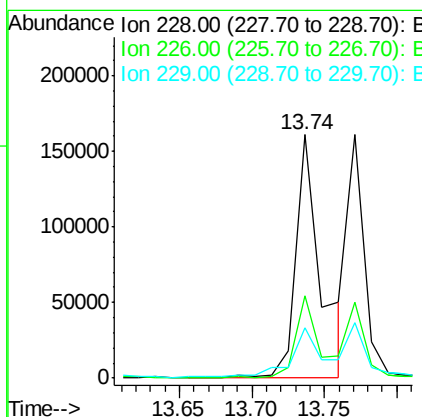
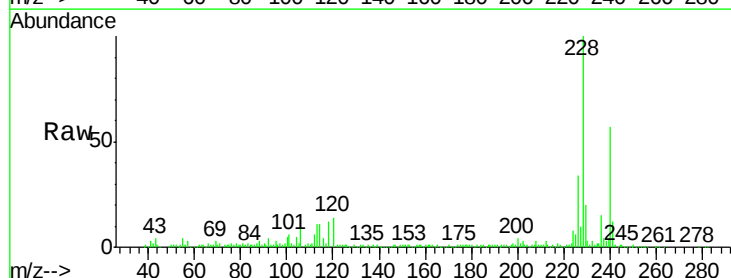
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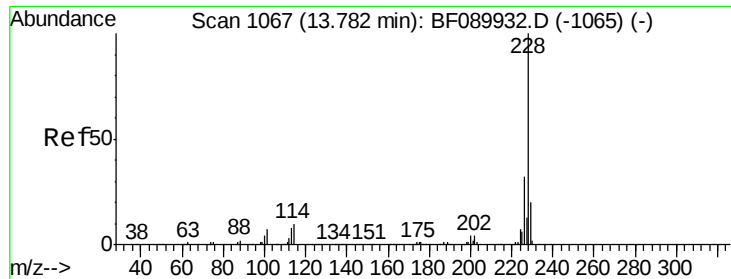
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 9/1/2016 11:53:54 AM



#80  
 Benzo(a)anthracene  
 Concen: 5.38 ng  
 RT: 13.74 min Scan# 1063  
 Delta R.T. -0.01 min  
 Lab File: BF089950.D  
 Acq: 31 Aug 2016 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.6  | 22.2  | 33.2# |
| 229     | 20.4  | 15.8  | 23.6  |





#82

Chrysene

Concen: 3.95 ng m

RT: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

Instrument :

BNA\_F

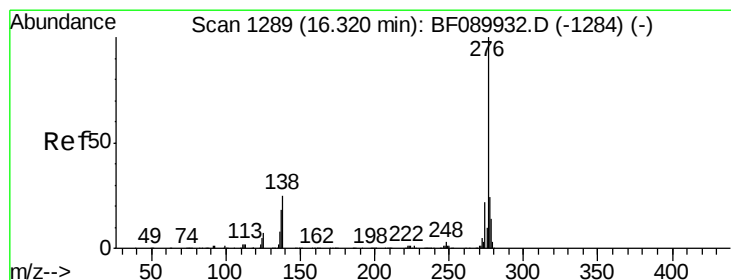
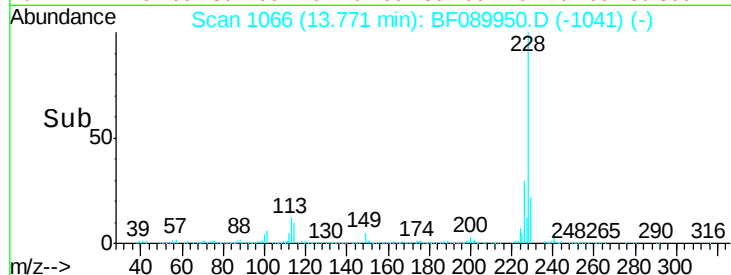
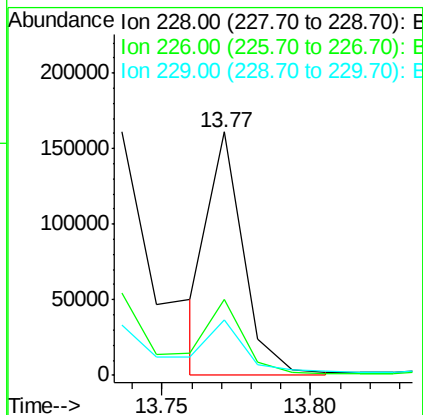
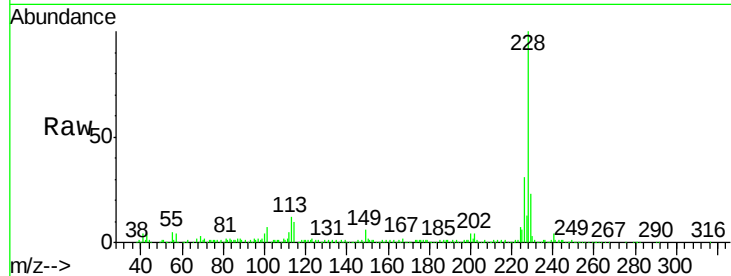
ClientSampleId :

CAM-GENERAL-FILL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 130841 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.0  | 25.2  | 37.8   |
| 229       | 23.0  | 16.2  | 24.2   |

Manual Integrations  
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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.76 ng

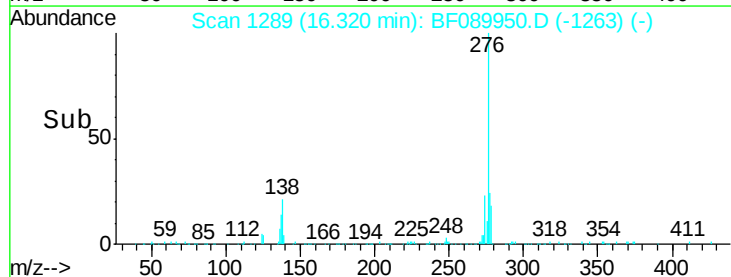
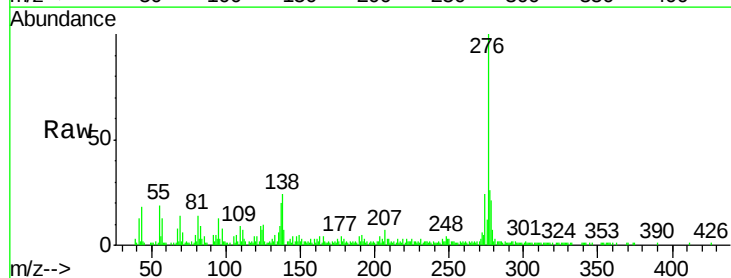
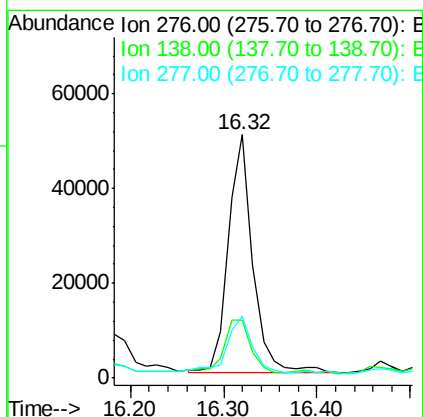
RT: 16.32 min Scan# 1289

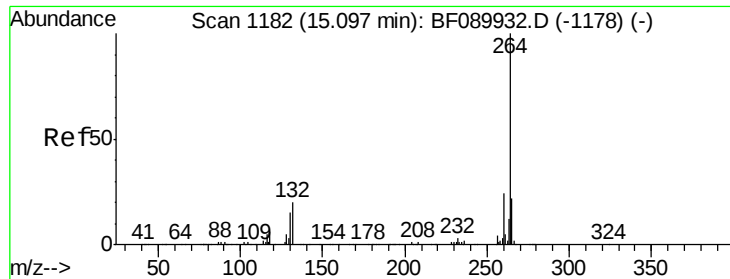
Delta R.T. -0.00 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 92000 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.3  | 22.6  | 34.0  |
| 277       | 24.8  | 20.1  | 30.1  |





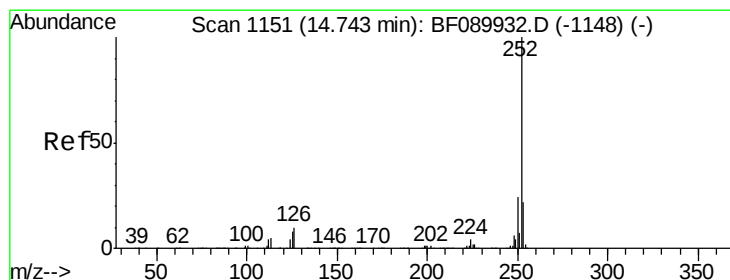
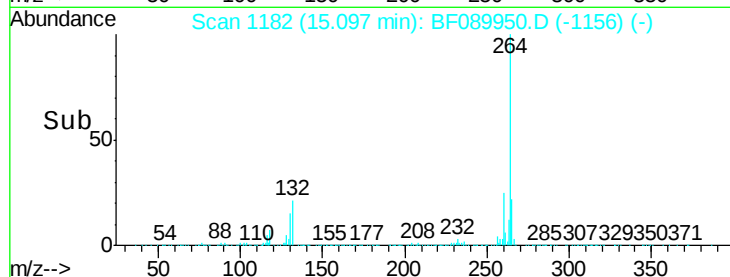
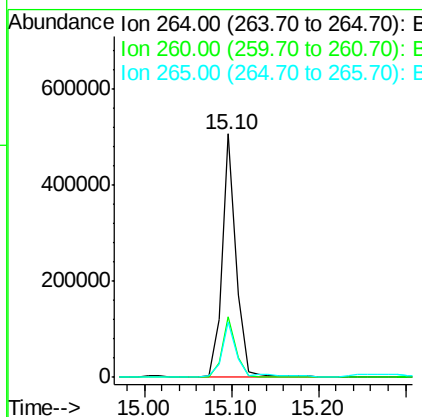
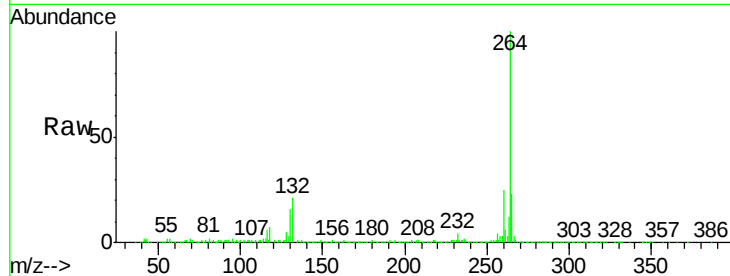
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.10 min Scan# 1182  
Delta R.T. -0.00 min  
Lab File: BF089950.D  
Acq: 31 Aug 2016 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-GENERAL-FILL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.4  | 29.0  |
| 265     | 22.6  | 17.4  | 26.2  |

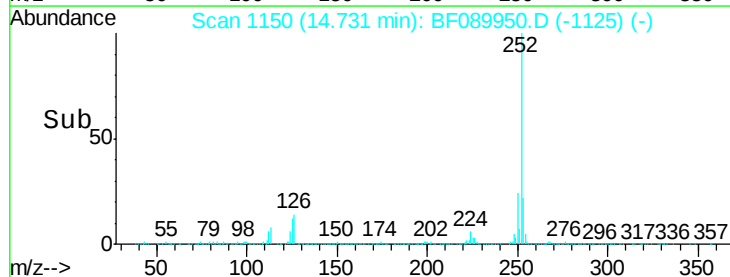
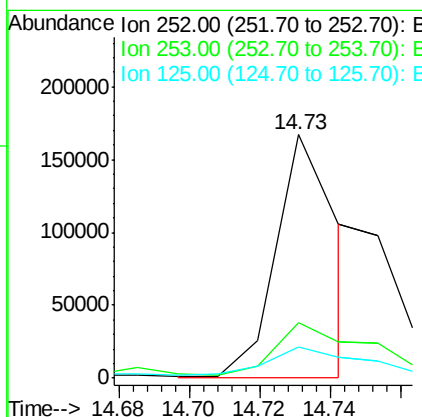
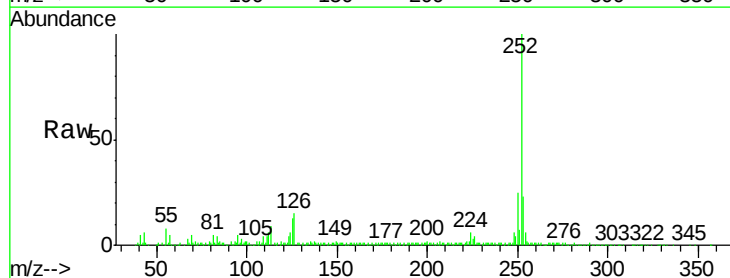
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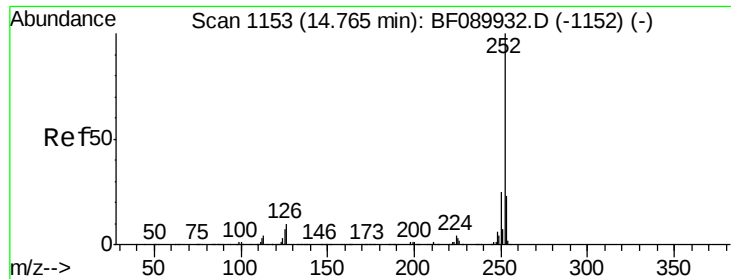
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9/1/2016 11:53:54 AM



#87  
Benzo(b)fluoranthene  
Concen: 5.77 ng m  
RT: 14.73 min Scan# 1150  
Delta R.T. -0.01 min  
Lab File: BF089950.D  
Acq: 31 Aug 2016 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.0  | 27.0  |
| 125     | 13.0  | 5.7   | 8.5   |





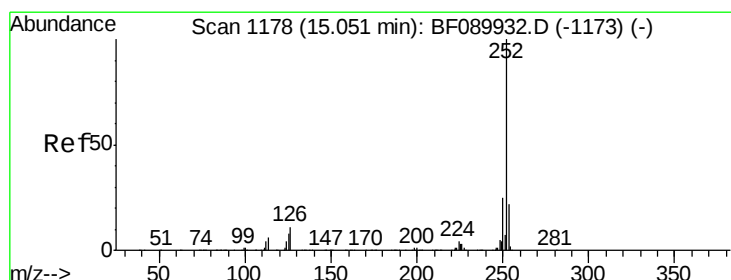
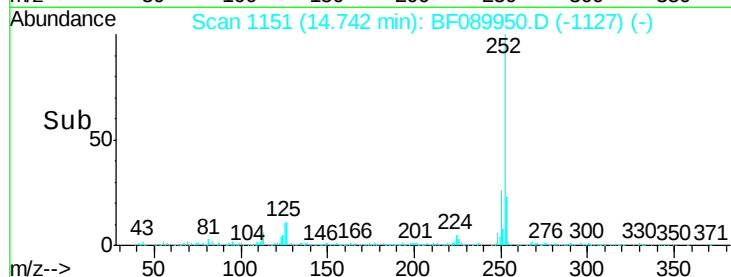
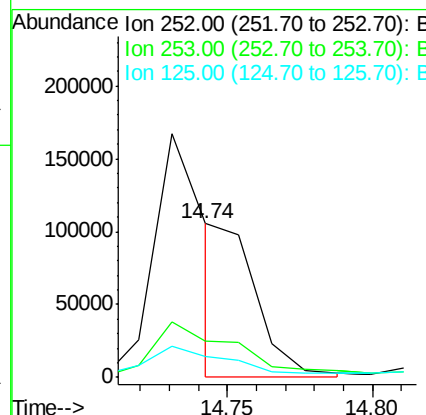
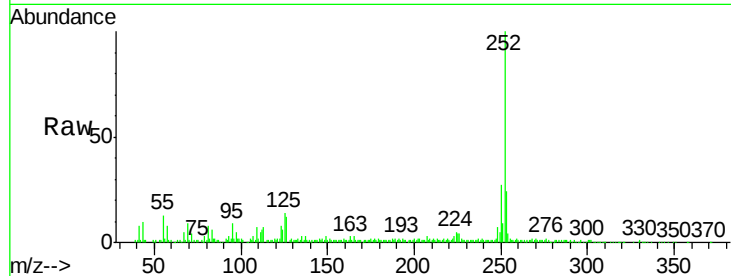
#88  
Benzo(k)fluoranthene  
Concen: 2.94 ng m  
RT: 14.74 min Scan# 1151  
Delta R.T. -0.02 min  
Lab File: BF089950.D  
Acq: 31 Aug 2016 15:08

Instrument :  
BNA\_F  
ClientSampleId :  
CAM-GENERAL-FILL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.8  | 26.8  |
| 125     | 13.5  | 7.3   | 10.9  |

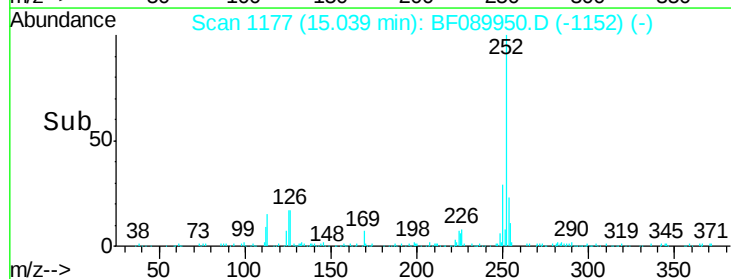
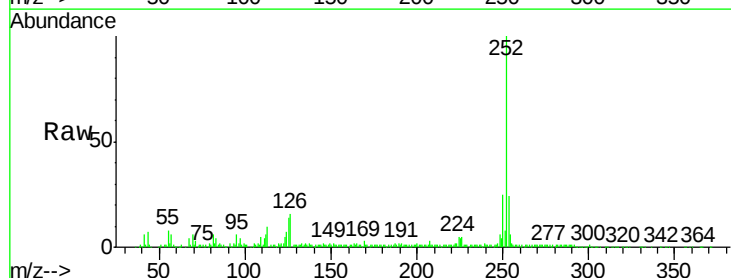
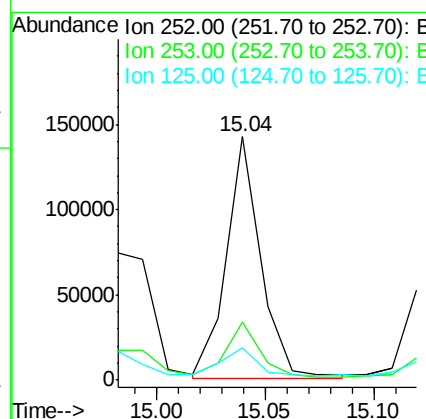
Manual Integrations  
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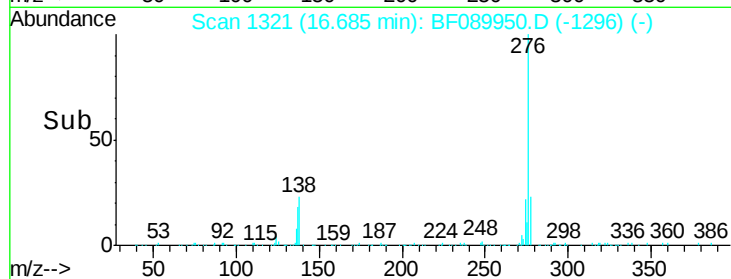
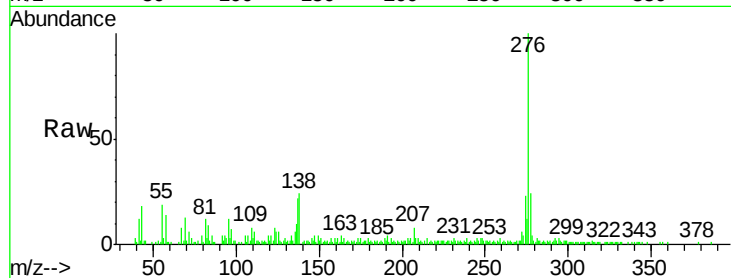
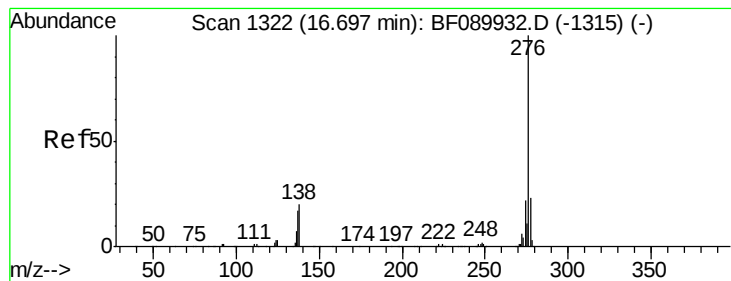
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9/1/2016 11:53:54 AM



#89  
Benzo(a)pyrene  
Concen: 5.10 ng  
RT: 15.04 min Scan# 1177  
Delta R.T. -0.01 min  
Lab File: BF089950.D  
Acq: 31 Aug 2016 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.5  | 26.3  |
| 125     | 13.5  | 6.3   | 9.5   |





#91

Benzo(g,h,i)perylene

Concen: 3.80 ng

RT: 16.69 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF089950.D

Acq: 31 Aug 2016 15:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 85381 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.1  | 19.0  | 28.4  |
| 138       | 24.5  | 16.4  | 24.6  |

Instrument :

BNA\_F

ClientSampleId :

CAM-GENERAL-FILL

Manual Integrations  
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