

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\  
 Data File : BF095173.D  
 Acq On : 17 May 2017 00:15  
 Operator : SJ/MA  
 Sample : I3170-01 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POSTEX-32-20170515

Manual Integrations  
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Quant Time: May 17 08:02:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.77  | 152  | 87036    | 20.00 | ng    | 0.04     |
| 21) Naphthalene-d8          | 9.79  | 136  | 361237   | 20.00 | ng    | 0.04     |
| 38) Acenaphthene-d10        | 12.62 | 164  | 142136   | 20.00 | ng    | 0.04     |
| 63) Phenanthrene-d10        | 15.02 | 188  | 213759   | 20.00 | ng    | 0.04     |
| 75) Chrysene-d12            | 18.69 | 240  | 178847   | 20.00 | ng    | 0.04     |
| 86) Perylene-d12            | 20.36 | 264  | 124368   | 20.00 | ng    | 0.05     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.78  | 112  | 84721    | 16.23 | ng    | 0.10     |
| 7) Phenol-d6                | 7.34  | 99   | 93609    | 14.94 | ng    | 0.06     |
| 23) Nitrobenzene-d5         | 8.68  | 82   | 59438    | 10.38 | ng    | 0.05     |
| 41) 2,4,6-Tribromophenol    | 13.93 | 330  | 16181    | 13.90 | ng    | 0.05     |
| 44) 2-Fluorobiphenyl        | 11.56 | 172  | 143426   | 14.52 | ng    | 0.03     |
| 78) Terphenyl-d14           | 17.34 | 244  | 92807    | 11.43 | ng    | 0.02     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 70) Phenanthrene            | 15.06 | 178  | 57084    | 4.65  | ng    | 97       |
| 74) Fluoranthene            | 16.80 | 202  | 140964   | 11.19 | ng    | 98       |
| 77) Pyrene                  | 17.11 | 202  | 151416   | 11.32 | ng    | 95       |
| 80) Benzo(a)anthracene      | 18.68 | 228  | 69247    | 6.65  | ng    | 95       |
| 82) Chrysene                | 18.72 | 228  | 87104m   | 8.65  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 21.71 | 276  | 31437    | 3.85  | ng    | 92       |
| 87) Benzo(b)fluoranthene    | 19.96 | 252  | 97017m   | 12.62 | ng    |          |
| 88) Benzo(k)fluoranthene    | 19.99 | 252  | 33827m   | 4.56  | ng    |          |
| 89) Benzo(a)pyrene          | 20.31 | 252  | 50574    | 7.13  | ng    | # 92     |
| 91) Benzo(g,h,i)perylene    | 22.10 | 276  | 30980    | 5.39  | ng    | 96       |

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

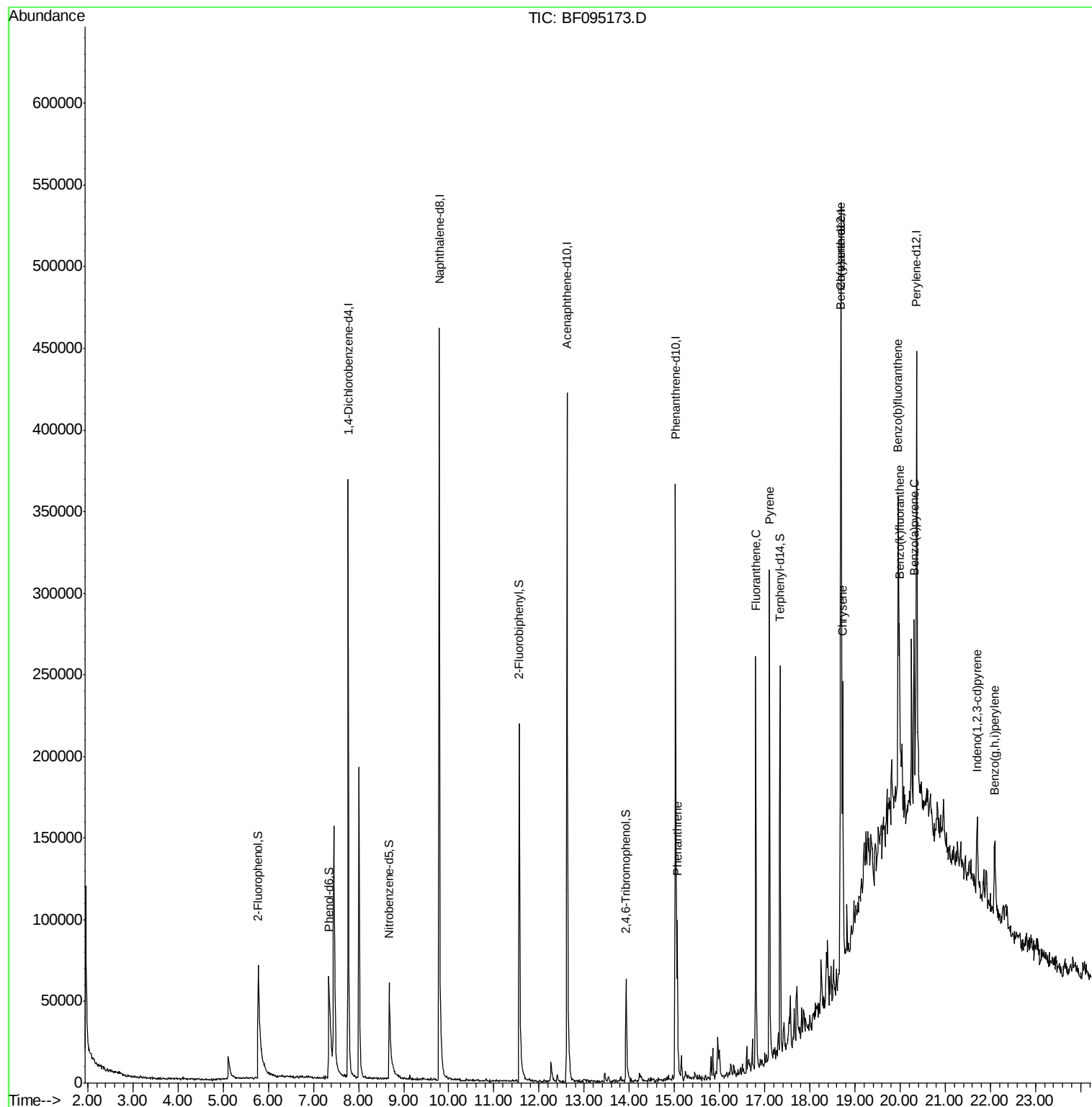
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\  
Data File : BF095173.D  
Acq On : 17 May 2017 00:15  
Operator : SJ/MA  
Sample : I3170-01 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

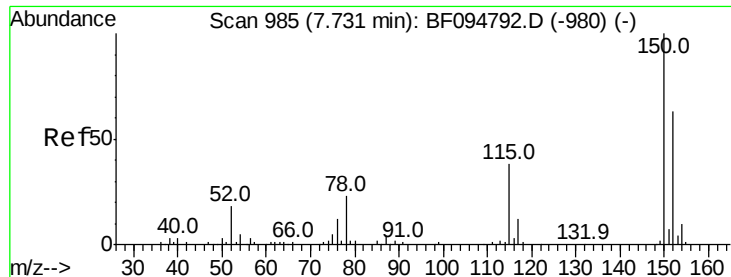
Instrument :  
BNA\_F  
ClientSampleId :  
POSTEX-32-20170515

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Quant Time: May 17 08:02:21 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 03 17:24:51 2017  
Response via : Initial Calibration





#1

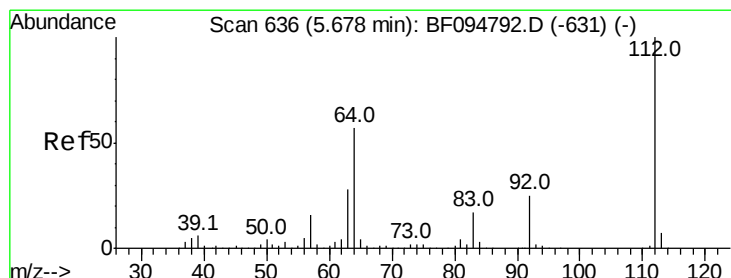
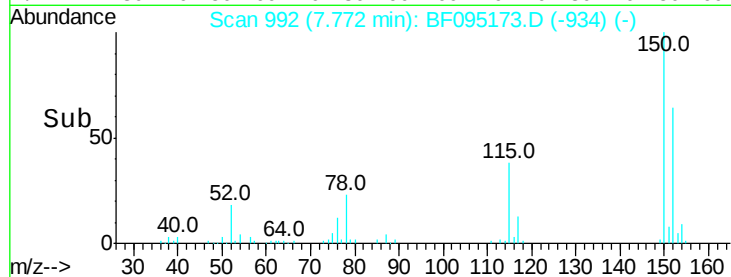
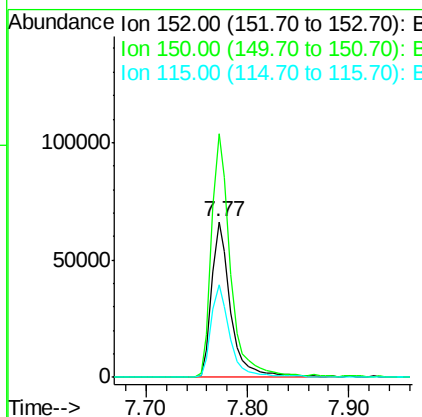
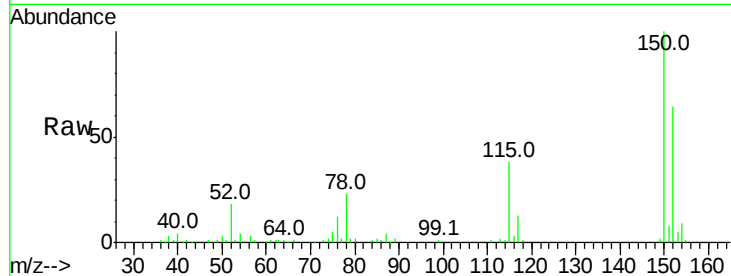
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.77 min Scan# 992  
Delta R.T. 0.04 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
POSTEX-32-20170515

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.6 | 126.2 | 189.2 |
| 115     | 59.2  | 52.2  | 78.2  |

Manual Integrations  
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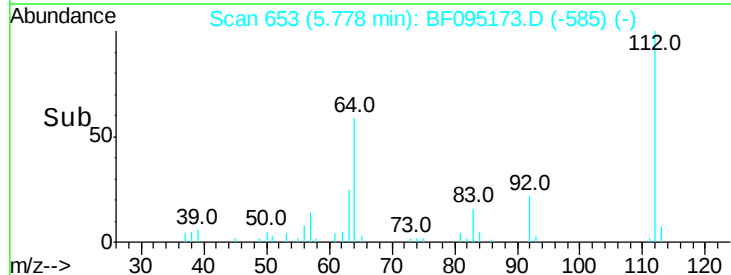
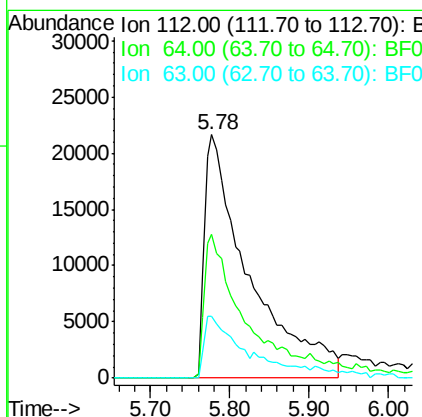
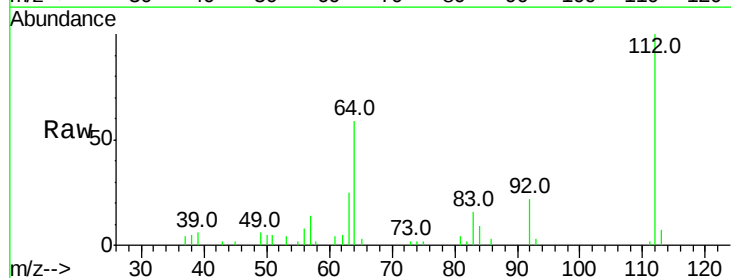
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#5

2-Fluorophenol  
Concen: 16.23 ng  
RT: 5.78 min Scan# 653  
Delta R.T. 0.10 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.0  | 46.0  | 69.0  |
| 63      | 25.2  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 14.94 ng

RT: 7.34 min Scan# 919

Delta R.T. 0.06 min

Lab File: BF095173.D

Acq: 17 May 2017 00:15

Instrument :

BNA\_F

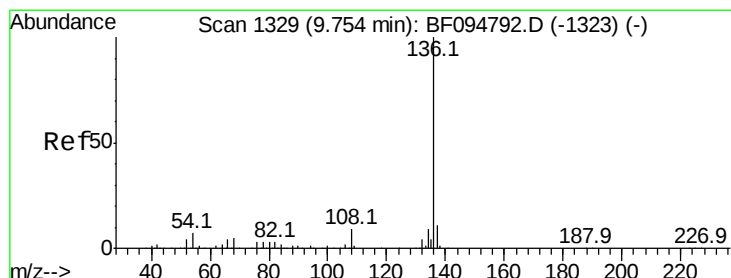
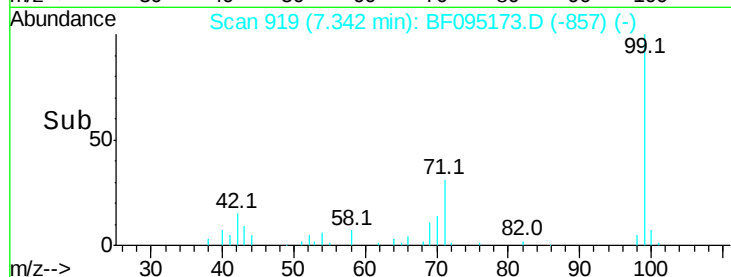
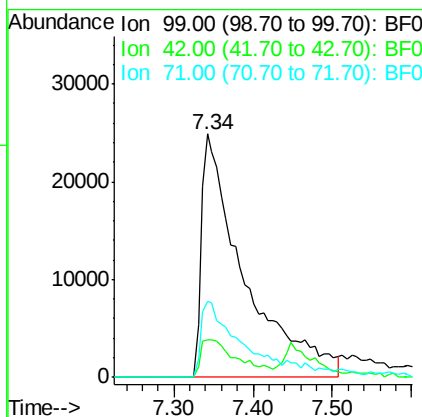
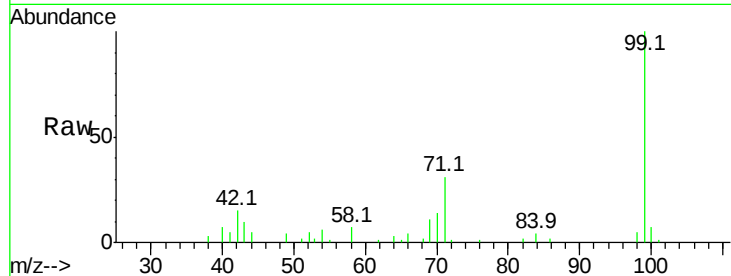
ClientSampleId :

POSTEX-32-20170515

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 93609 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 15.5  | 13.5  | 20.3  |
| 71        | 31.1  | 24.5  | 36.7  |

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#21

Naphthalene-d8

Concen: 20.00 ng

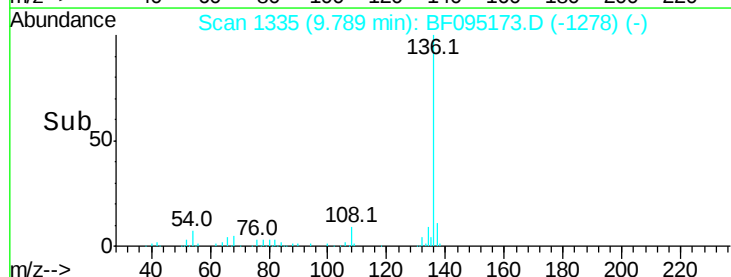
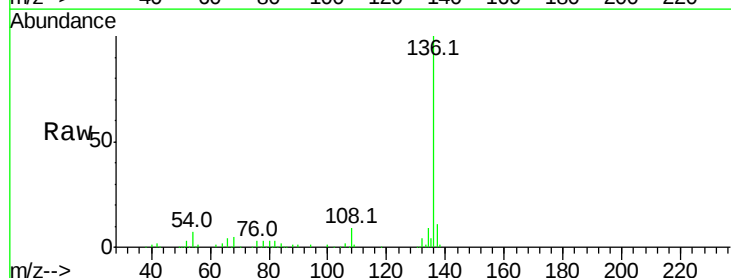
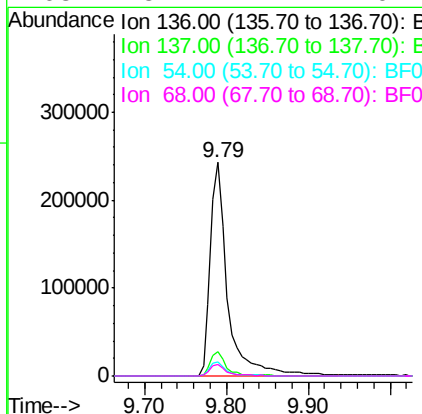
RT: 9.79 min Scan# 1335

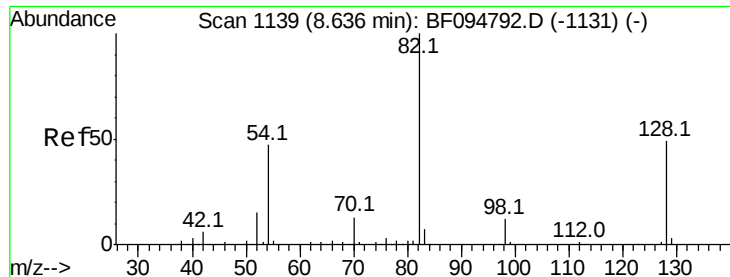
Delta R.T. 0.04 min

Lab File: BF095173.D

Acq: 17 May 2017 00:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 361237 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.5  | 8.5   | 12.7   |
| 54        | 6.8   | 4.9   | 7.3    |
| 68        | 5.4   | 4.1   | 6.1    |





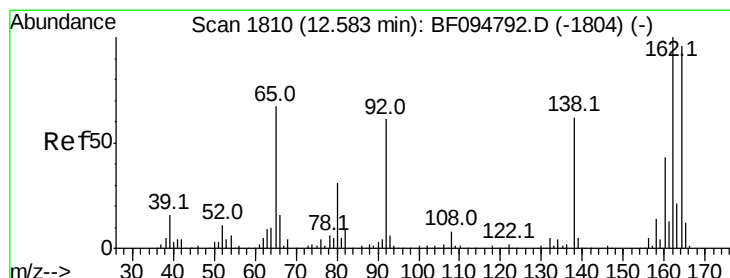
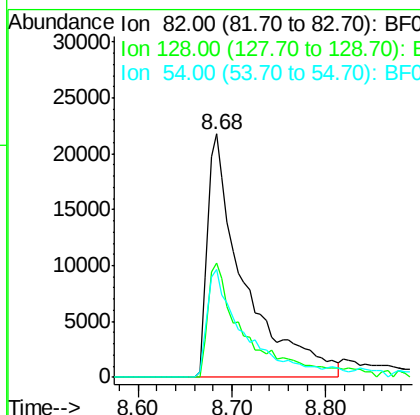
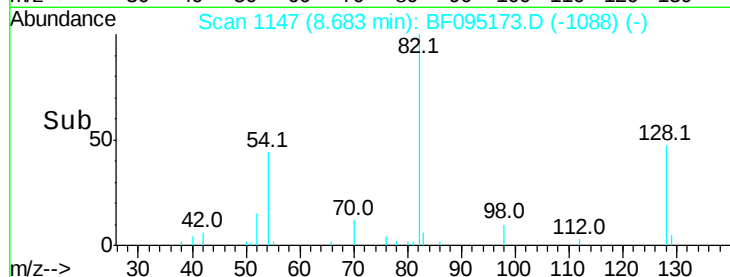
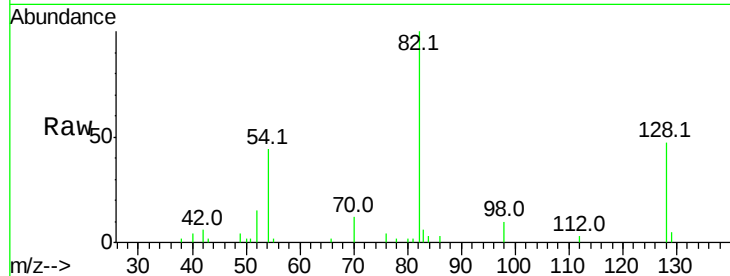
#23  
 Nitrobenzene-d5  
 Concen: 10.38 ng  
 RT: 8.68 min Scan# 1147  
 Delta R.T. 0.05 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POSTEX-32-20170515

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.7  | 34.0  | 51.0  |
| 54      | 44.3  | 42.2  | 63.2  |

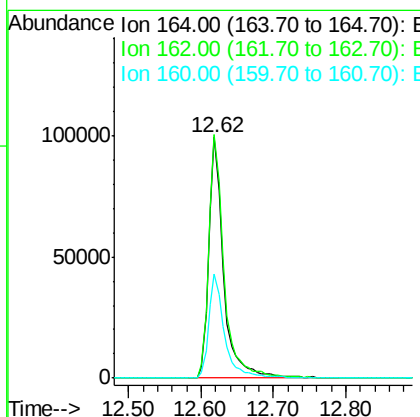
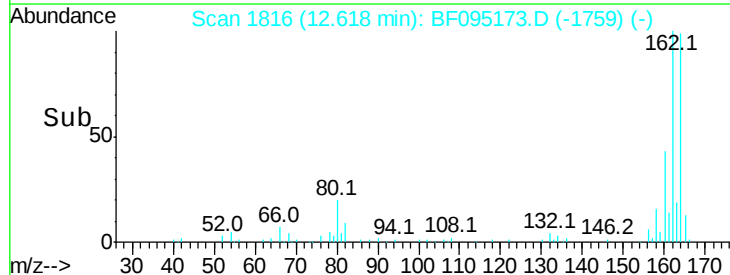
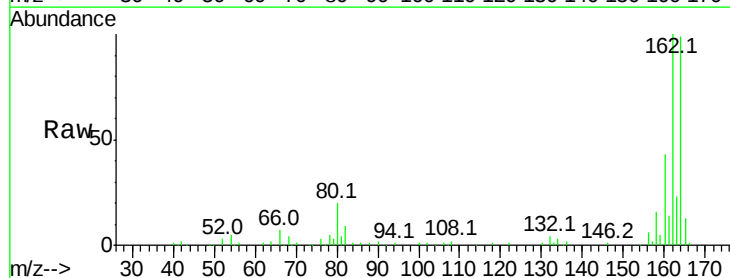
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.62 min Scan# 1816  
 Delta R.T. 0.04 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.0 | 82.6  | 123.8 |
| 160     | 43.3  | 36.2  | 54.2  |





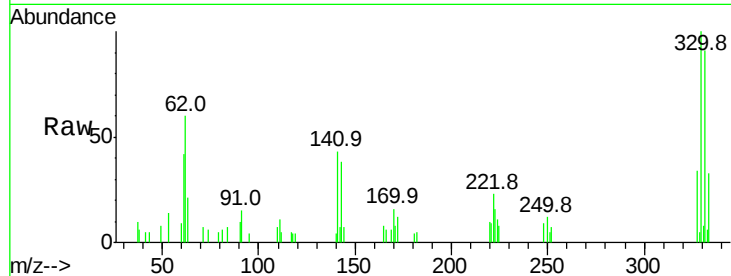
#41  
 2,4,6-Tribromophenol  
 Concen: 13.90 ng  
 RT: 13.93 min Scan# 2039  
 Delta R.T. 0.05 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POSTEX-32-20170515

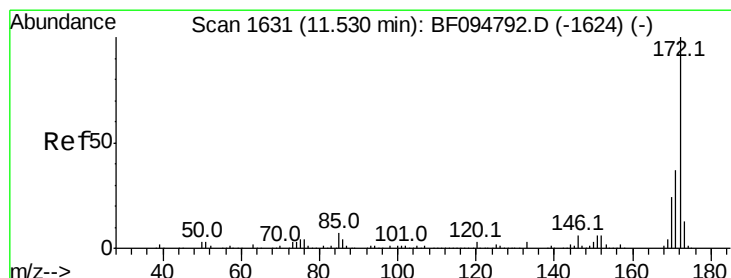
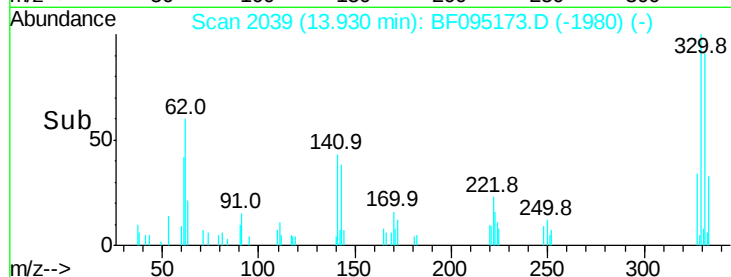
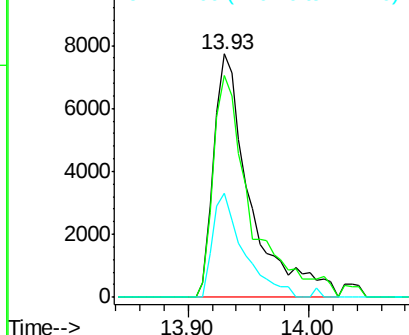
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 90.3  | 76.6  | 115.0 |
| 141     | 36.0  | 31.4  | 47.2  |

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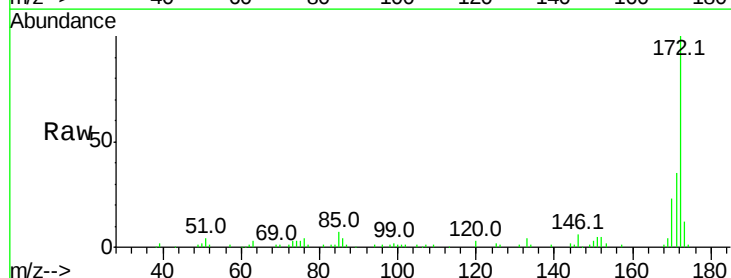


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

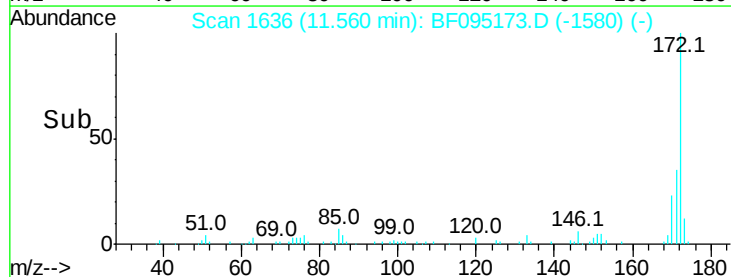
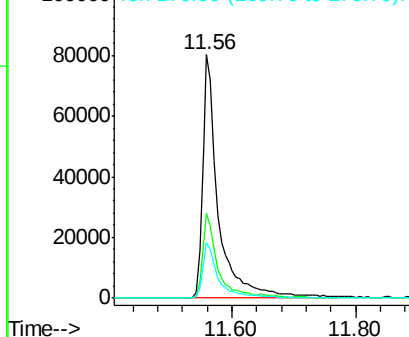


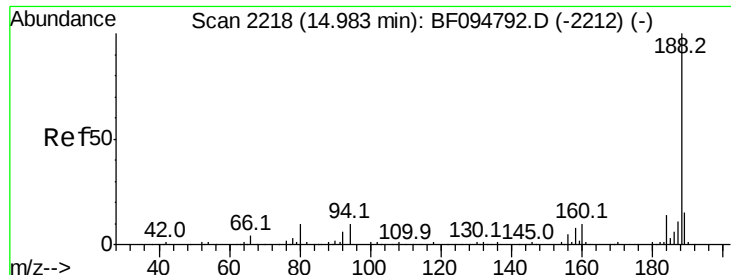
#44  
 2-Fluorobiphenyl  
 Concen: 14.52 ng  
 RT: 11.56 min Scan# 1636  
 Delta R.T. 0.03 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 29.6  | 44.4  |
| 170     | 22.9  | 19.8  | 29.8  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





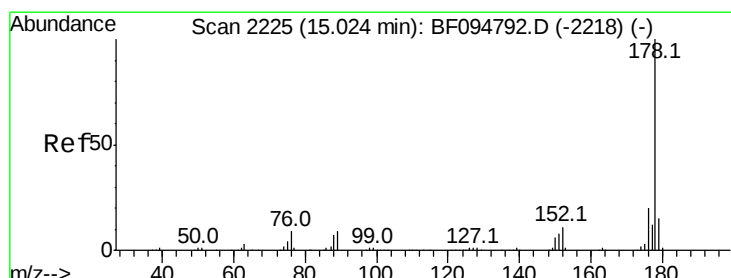
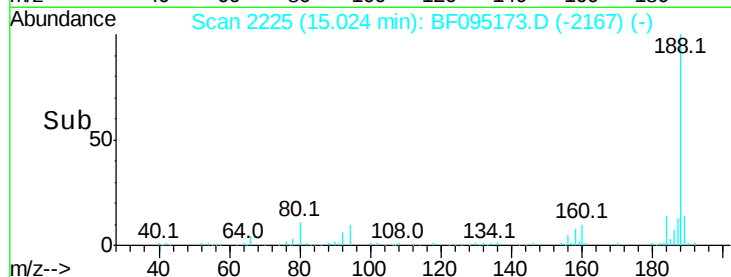
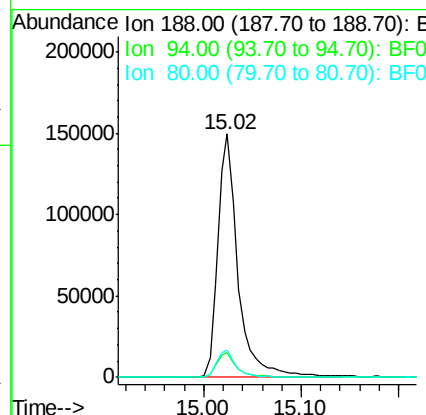
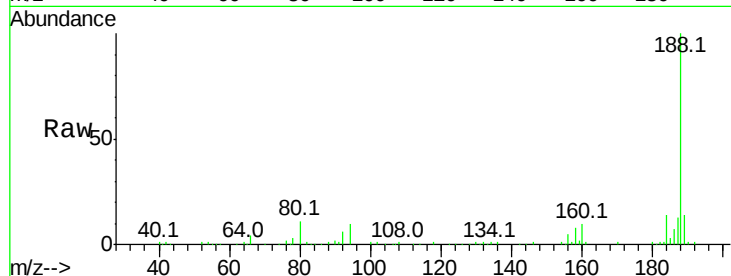
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 15.02 min Scan# 2225  
 Delta R.T. 0.04 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POSTEX-32-20170515

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 213759 |       |       |
| 94      | 10.4  |        | 9.4   | 14.2  |
| 80      | 11.0  |        | 10.2  | 15.2  |

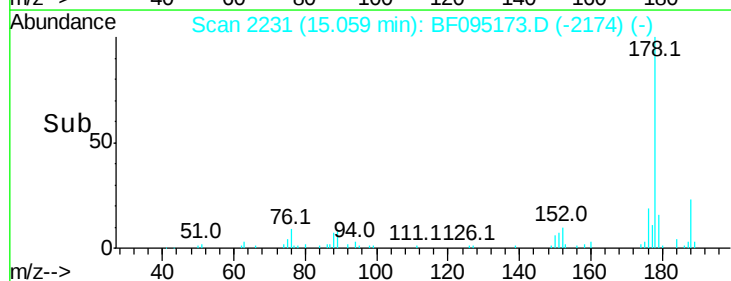
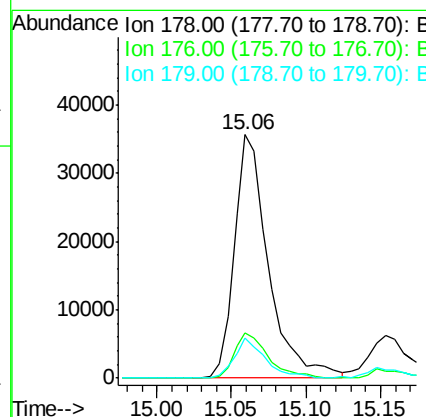
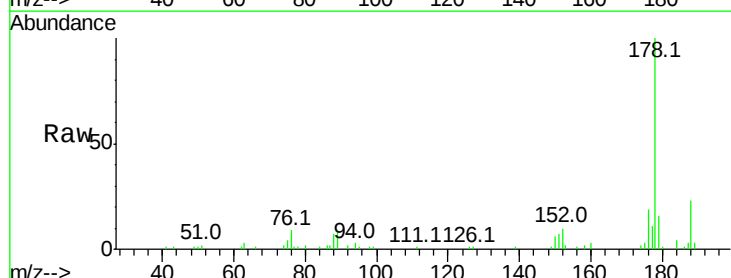
Manual Integrations  
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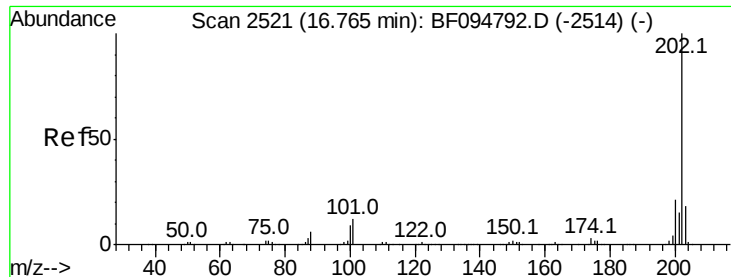
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#70  
 Phenanthrene  
 Concen: 4.65 ng  
 RT: 15.06 min Scan# 2231  
 Delta R.T. 0.04 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 57084 |       |       |
| 176     | 18.6  |       | 16.2  | 24.4  |
| 179     | 16.4  |       | 12.6  | 19.0  |





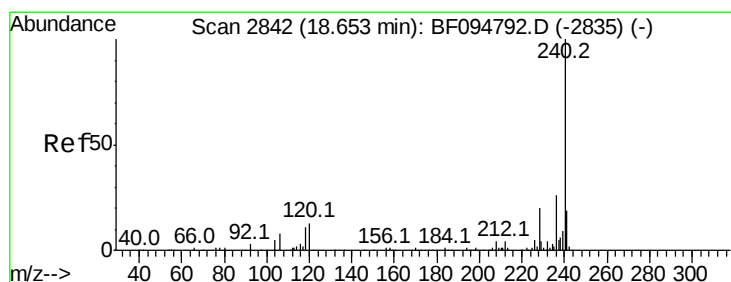
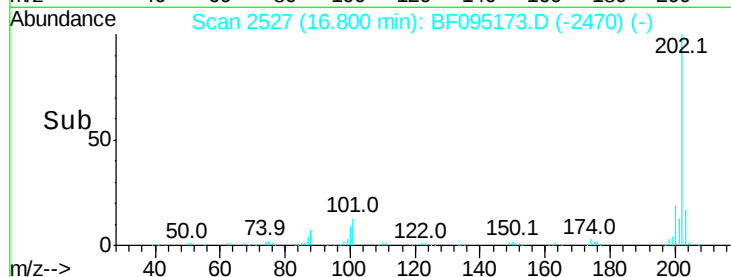
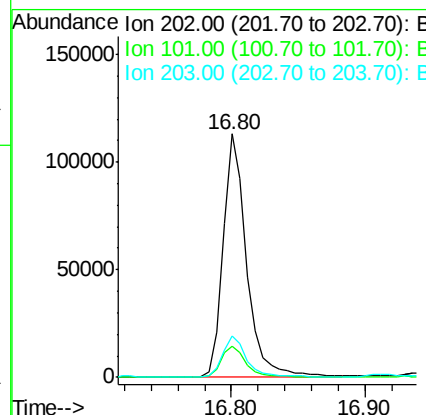
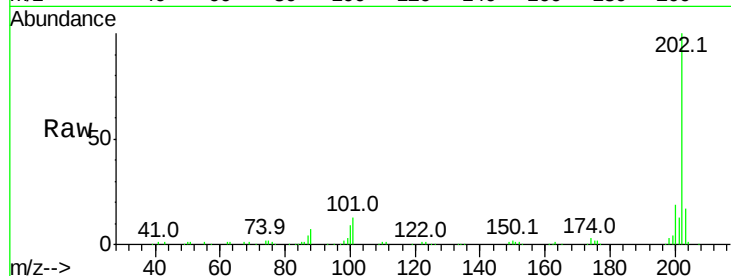
#74  
**Fluoranthene**  
 Concen: 11.19 ng  
 RT: 16.80 min Scan# 2527  
 Delta R.T. 0.04 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POSTEX-32-20170515

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.8  | 0.0        | 33.2  |
| 203     | 16.9  | 0.0        | 38.1  |

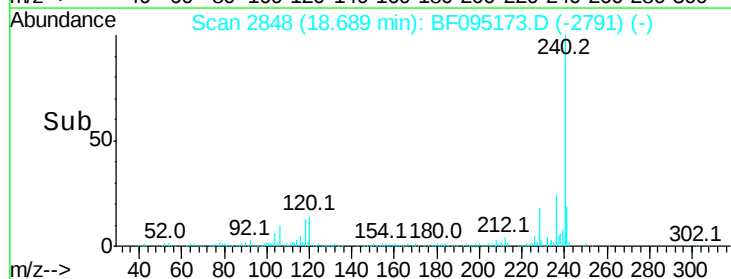
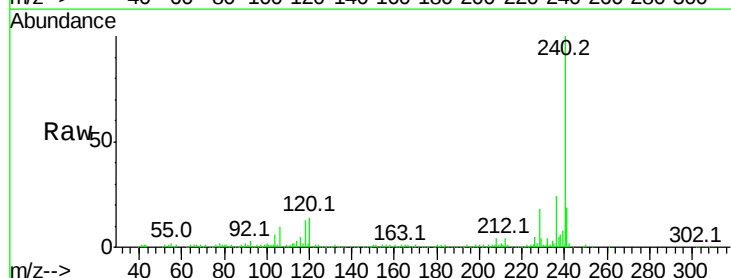
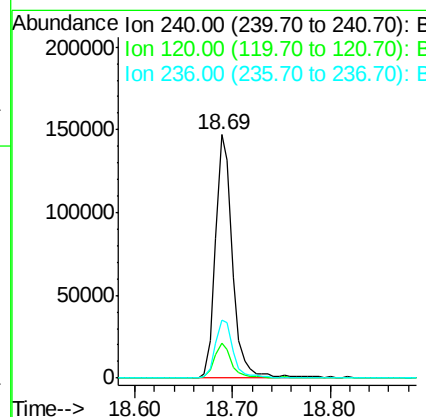
Manual Integrations  
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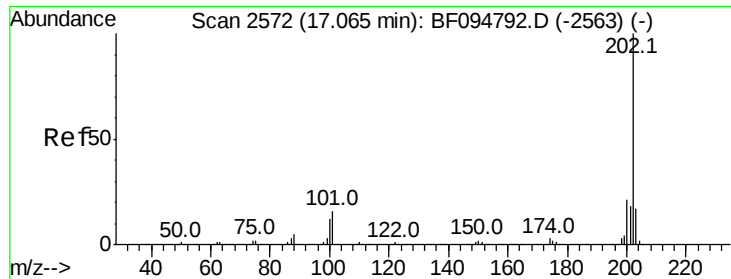
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#75  
**Chrysene-d12**  
 Concen: 20.00 ng  
 RT: 18.69 min Scan# 2848  
 Delta R.T. 0.04 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.3  | 5.8        | 8.8#  |
| 236     | 24.0  | 20.5       | 30.7  |





#77

Pvrene

Concen: 11.32 ng

RT: 17.11 min Scan# 2579

Delta R.T. 0.04 min

Lab File: BF095173.D

Acq: 17 May 2017 00:15

Instrument :

BNA\_F

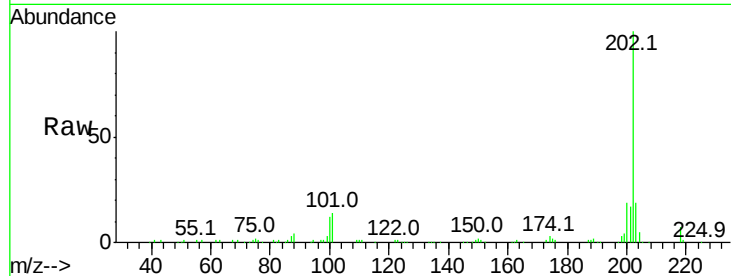
ClientSampleId :

POSTEX-32-20170515

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 151416 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 18.5  | 17.6  | 26.4   |
| 203       | 18.8  | 14.4  | 21.6   |

Manual Integrations  
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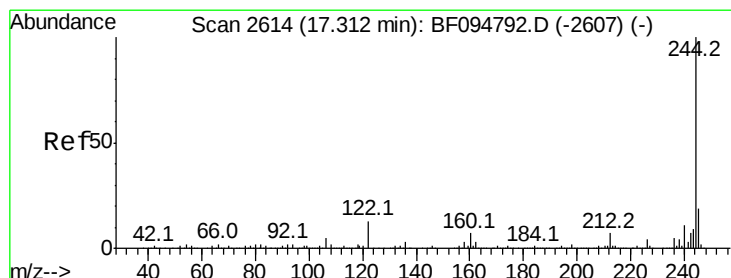
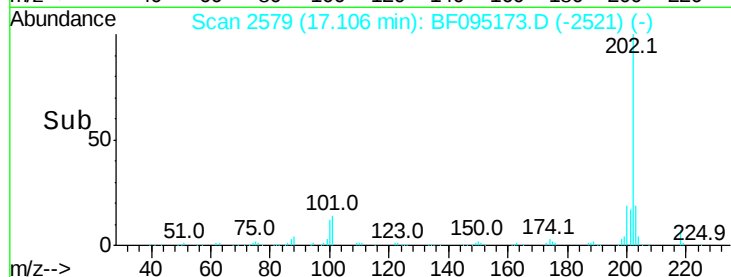
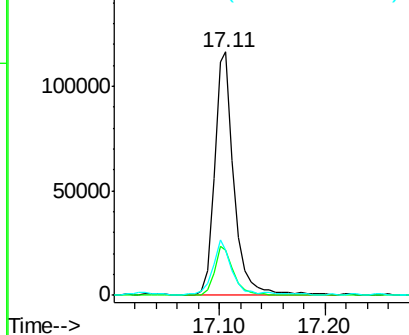
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 11.43 ng

RT: 17.34 min Scan# 2618

Delta R.T. 0.02 min

Lab File: BF095173.D

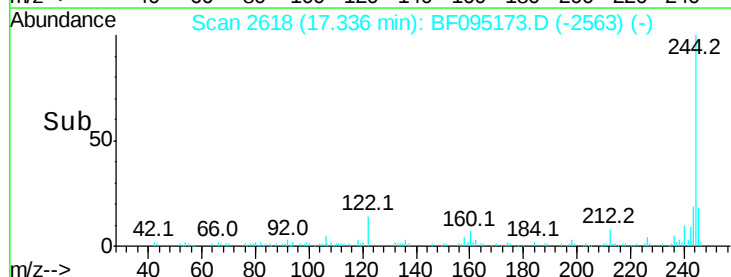
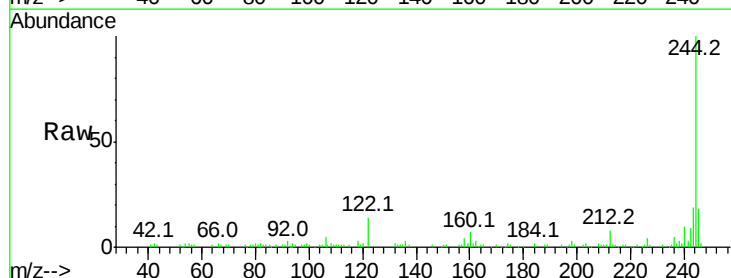
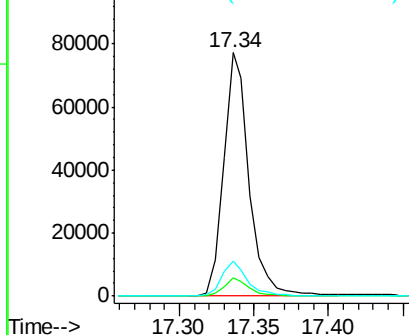
Acq: 17 May 2017 00:15

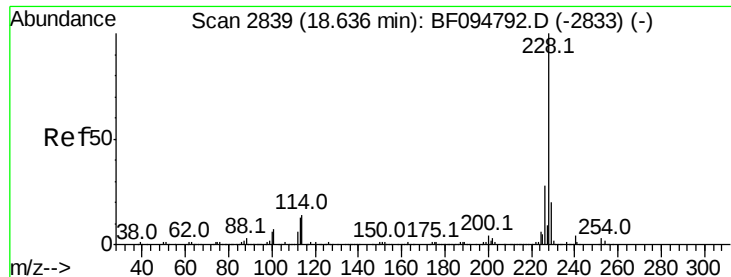
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 92807 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.6   | 6.0   | 9.0   |
| 122       | 14.4  | 10.3  | 15.5  |

Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





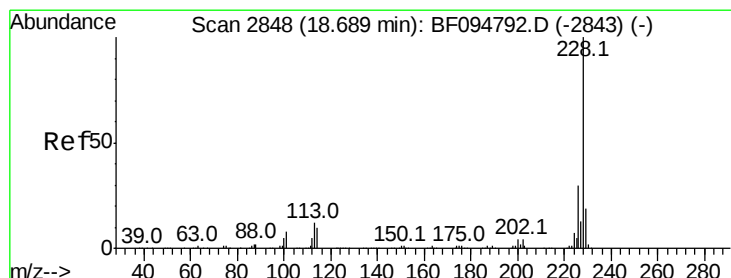
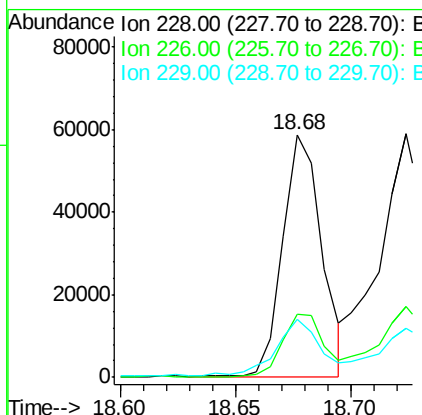
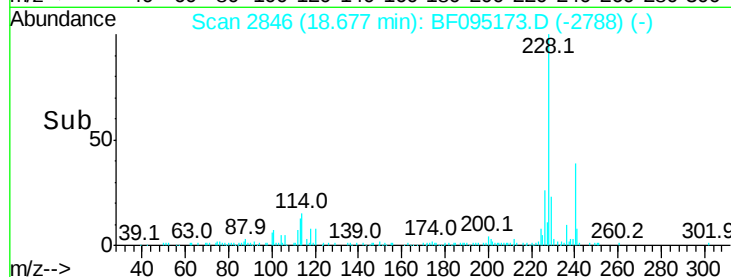
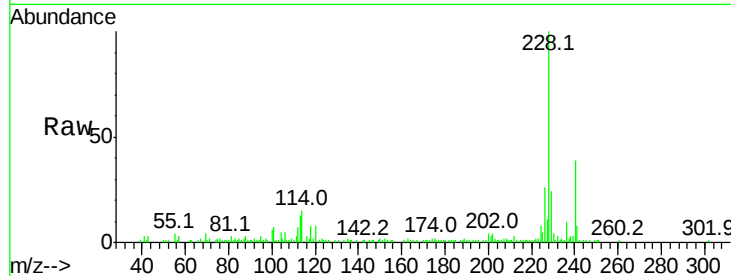
#80  
Benzo(a)anthracene  
Concen: 6.65 ng  
RT: 18.68 min Scan# 2846  
Delta R.T. 0.04 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
POSTEX-32-20170515

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.2  | 22.6  | 33.8  |
| 229     | 23.7  | 16.3  | 24.5  |

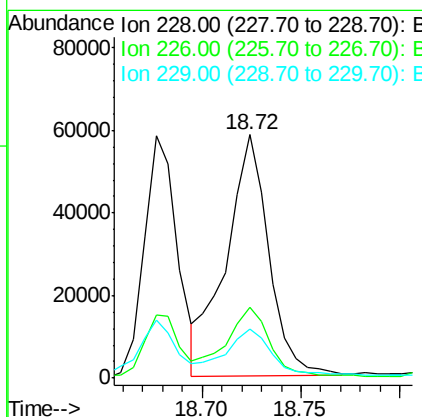
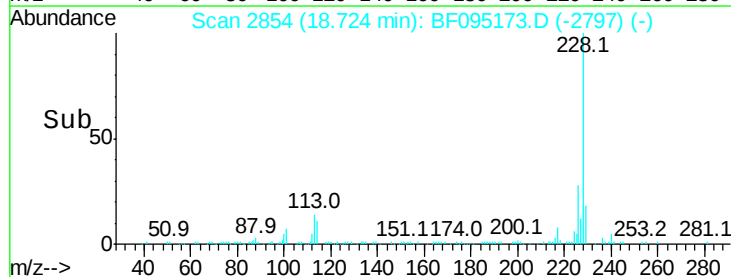
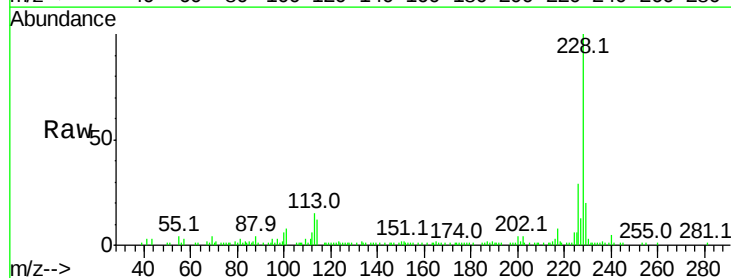
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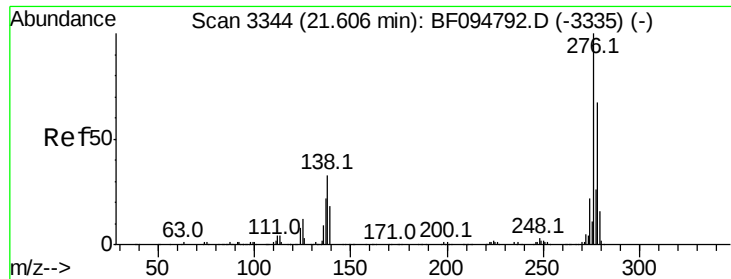
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#82  
Chrysene  
Concen: 8.65 ng m  
RT: 18.72 min Scan# 2854  
Delta R.T. 0.04 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 24.9  | 37.3  |
| 229     | 20.1  | 15.8  | 23.6  |





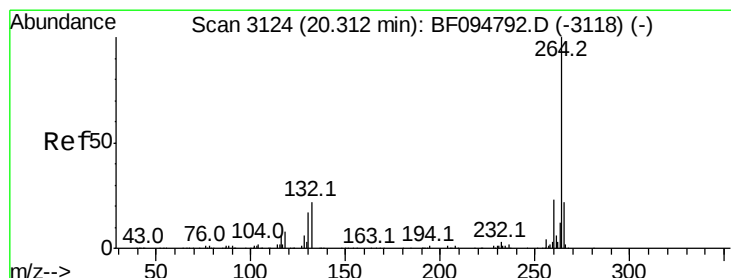
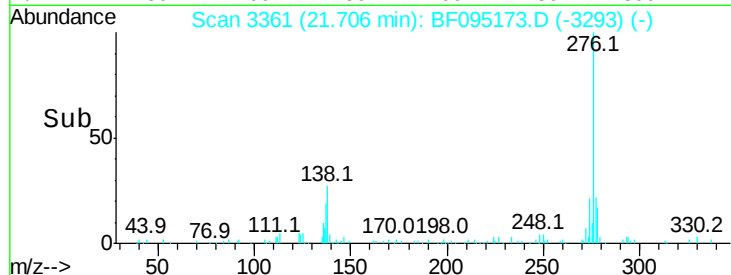
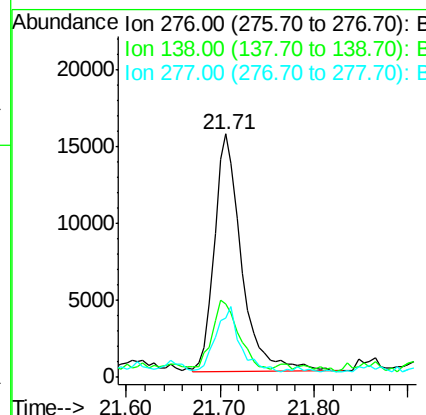
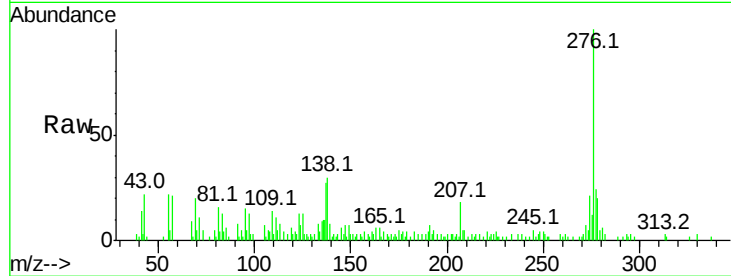
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.85 ng  
 RT: 21.71 min Scan# 3361  
 Delta R.T. 0.10 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POSTEX-32-20170515

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.8  | 27.8  | 41.6  |
| 277     | 23.9  | 20.2  | 30.4  |

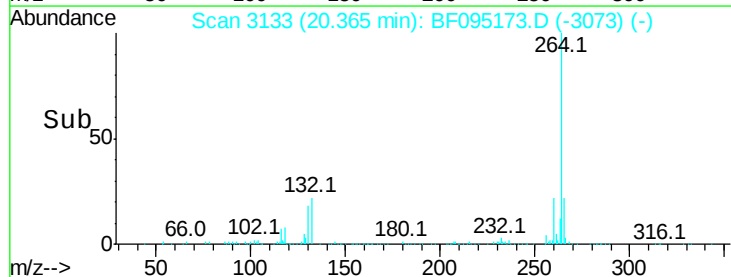
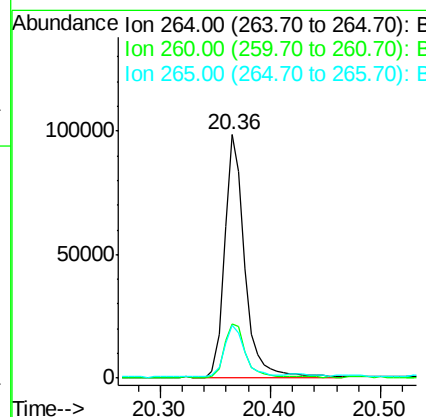
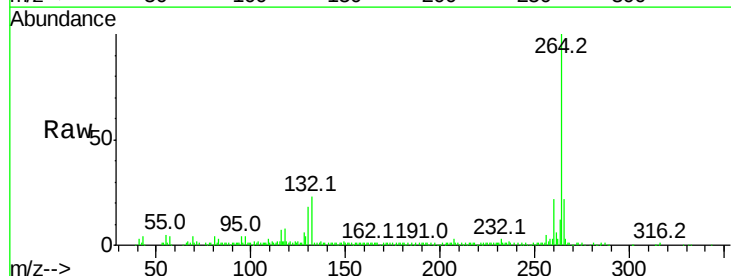
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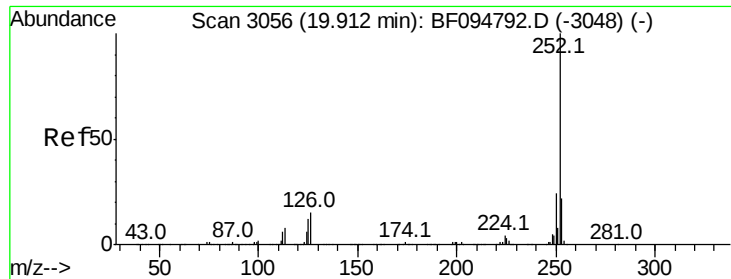
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.36 min Scan# 3133  
 Delta R.T. 0.05 min  
 Lab File: BF095173.D  
 Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 19.5  | 29.3  |
| 265     | 21.9  | 17.2  | 25.8  |





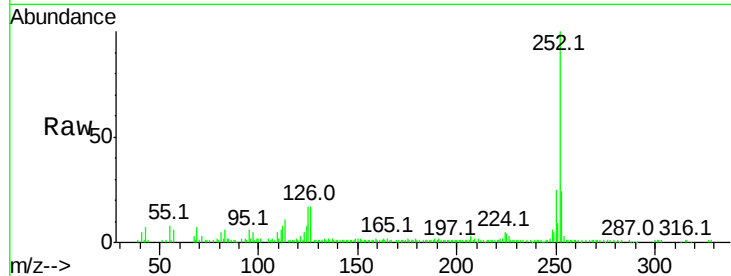
#87  
Benzo(b)fluoranthene  
Concen: 12.62 ng m  
RT: 19.96 min Scan# 3064  
Delta R.T. 0.05 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
POSTEX-32-20170515

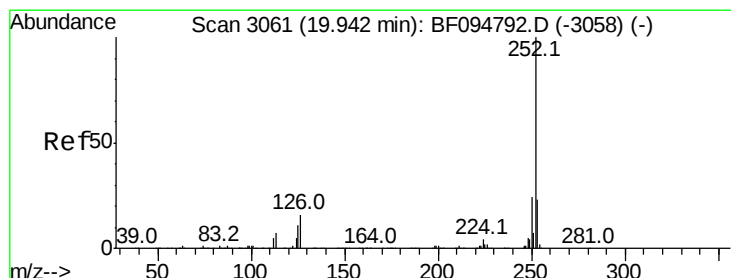
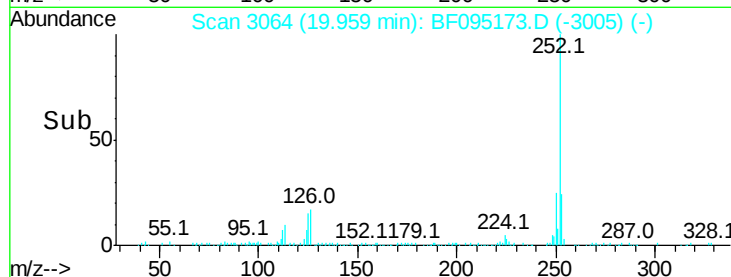
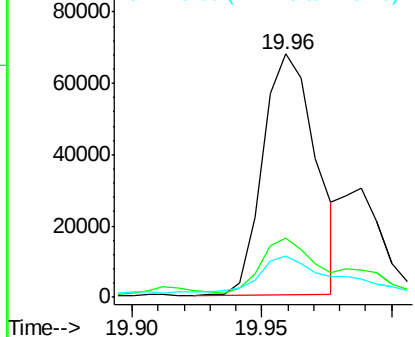
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 18.1  | 27.1  |
| 125     | 17.0  | 9.8   | 14.8  |

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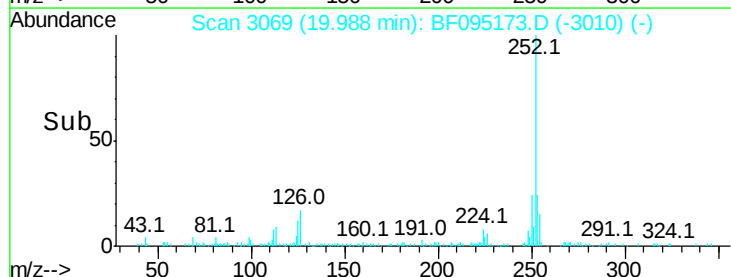
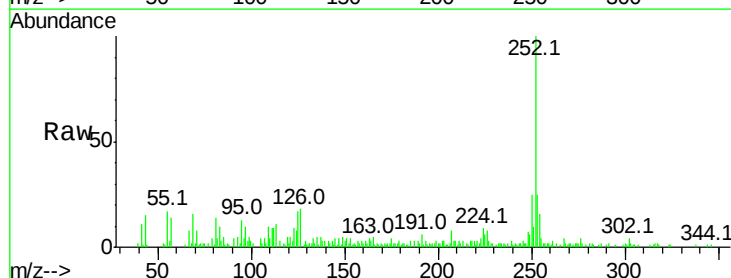
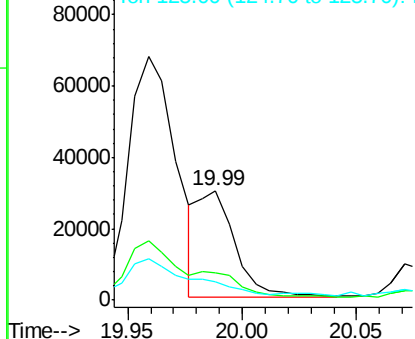
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

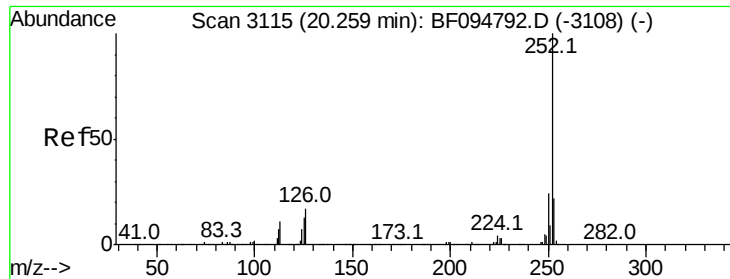


#88  
Benzo(k)fluoranthene  
Concen: 4.56 ng m  
RT: 19.99 min Scan# 3069  
Delta R.T. 0.05 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 18.4  | 27.6  |
| 125     | 16.8  | 13.1  | 19.7  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





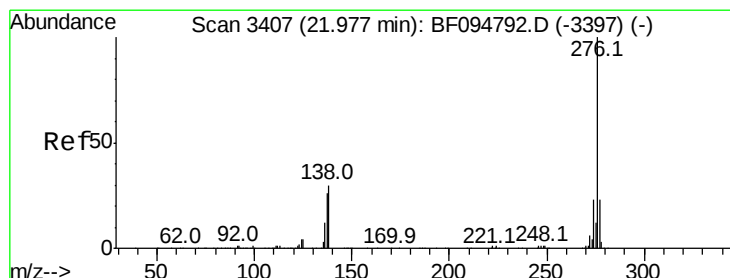
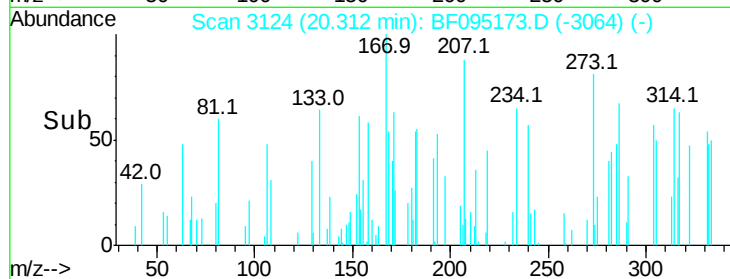
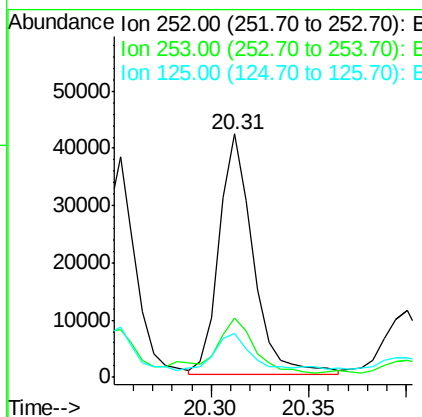
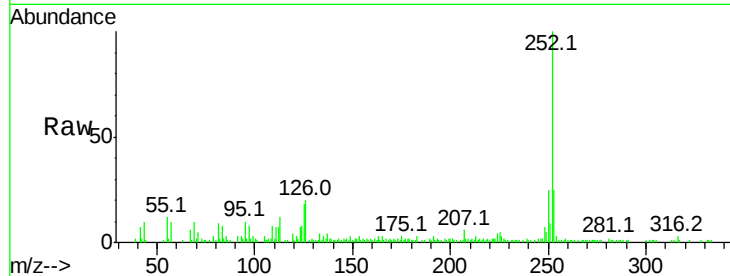
#89  
Benzo(a)pyrene  
Concen: 7.13 ng  
RT: 20.31 min Scan# 3124  
Delta R.T. 0.05 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
POSTEX-32-20170515

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.5  | 26.3  |
| 125     | 18.1  | 11.0  | 16.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 5.39 ng  
RT: 22.10 min Scan# 3428  
Delta R.T. 0.12 min  
Lab File: BF095173.D  
Acq: 17 May 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.8  | 18.6  | 28.0  |
| 138     | 31.0  | 25.4  | 38.0  |

