

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\  
 Data File : BF084980.D  
 Acq On : 10 Feb 2016 4:18  
 Operator : SJ/IZ  
 Sample : H1361-06 5X  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-2

Manual Integrations  
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 2/10/2016 1:45:23 PM

Quant Time: Feb 10 06:08:04 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.64  | 152  | 159303   | 20.00 | ng    | -0.05          |
| 21) Naphthalene-d8          | 7.92  | 136  | 606802   | 20.00 | ng    | -0.06          |
| 38) Acenaphthene-d10        | 9.66  | 164  | 256507   | 20.00 | ng    | -0.07          |
| 63) Phenanthrene-d10        | 11.14 | 188  | 398728   | 20.00 | ng    | -0.07          |
| 75) Chrysene-d12            | 13.77 | 240  | 318338   | 20.00 | ng    | -0.07          |
| 86) Perylene-d12            | 15.14 | 264  | 279444   | 20.00 | ng    | -0.07          |
| System Monitoring Compounds |       |      |          |       |       |                |
| 5) 2-Fluorophenol           | 5.21  | 112  | 329569   | 32.22 | ng    | -0.07          |
| 7) Phenol-d6                | 6.28  | 99   | 435176   | 34.32 | ng    | -0.06          |
| 23) Nitrobenzene-d5         | 7.20  | 82   | 224921   | 20.88 | ng    | -0.07          |
| 41) 2,4,6-Tribromophenol    | 10.45 | 330  | 74359    | 27.79 | ng    | -0.07          |
| 44) 2-Fluorobiphenyl        | 9.00  | 172  | 405914   | 20.58 | ng    | -0.06          |
| 78) Terphenyl-d14           | 12.73 | 244  | 274721   | 19.56 | ng    | -0.07          |
| Target Compounds            |       |      |          |       |       |                |
| 49) Dimethylphthalate       | 9.40  | 163  | 68679    | 3.52  | ng    | Qvalue<br># 90 |
| 70) Phenanthrene            | 11.16 | 178  | 102316   | 4.63  | ng    | 99             |
| 74) Fluoranthene            | 12.35 | 202  | 156813   | 7.01  | ng    | 96             |
| 77) Pyrene                  | 12.58 | 202  | 147342   | 6.05  | ng    | 99             |
| 80) Benzo(a)anthracene      | 13.77 | 228  | 79247m   | 4.01  | ng    |                |
| 82) Chrysene                | 13.80 | 228  | 57195m   | 2.99  | ng    |                |
| 85) Indeno(1,2,3-cd)pyrene  | 16.39 | 276  | 33313    | 2.21  | ng    | 98             |
| 87) Benzo(b)fluoranthene    | 14.76 | 252  | 88307m   | 4.70  | ng    |                |
| 89) Benzo(a)pyrene          | 15.08 | 252  | 53194    | 3.33  | ng    | # 96           |
| 91) Benzo(g,h,i)perylene    | 16.76 | 276  | 31882    | 2.35  | ng    | 97             |

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

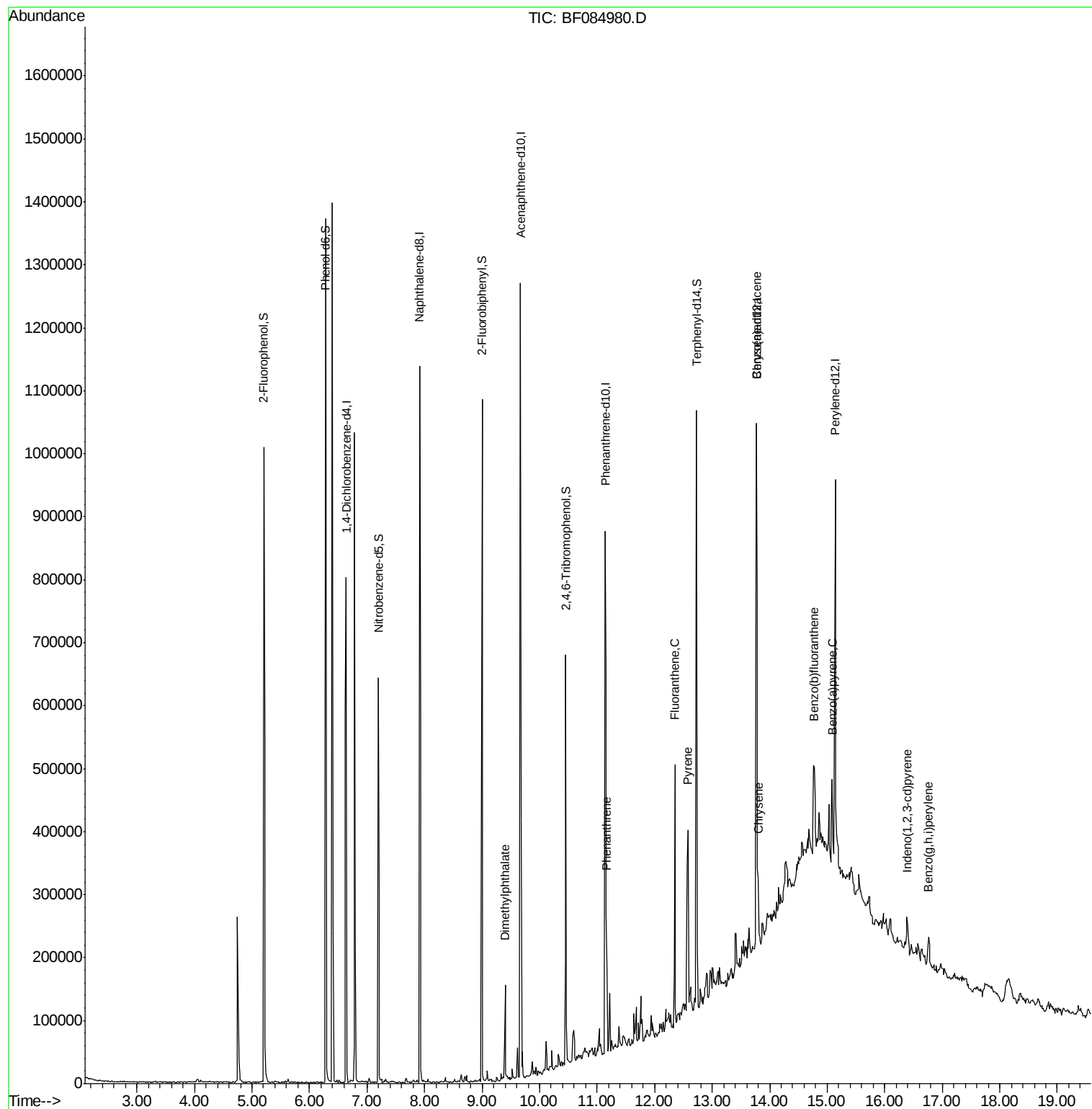
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\  
Data File : BF084980.D  
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Instrument :  
BNA\_F  
ClientSampleId :  
WC-2

Manual Integrations  
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Quant Time: Feb 10 06:08:04 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 03 14:16:01 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 398

Delta R.T. -0.05 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

Instrument :

BNA\_F

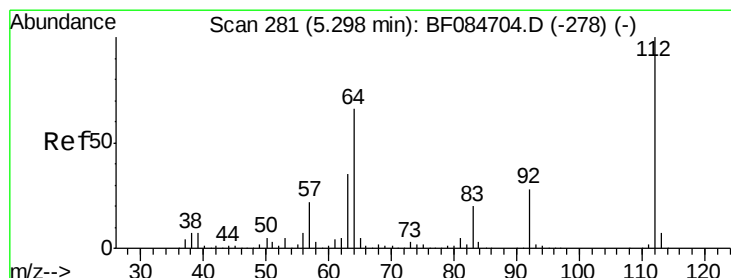
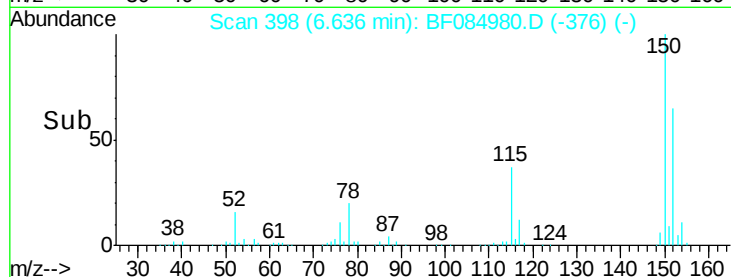
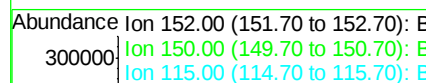
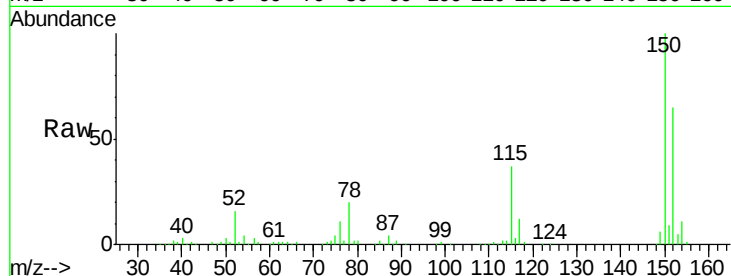
ClientSampleId :

WC-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 159303 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 153.4 | 123.0 | 184.4  |
| 115       | 57.2  | 51.4  | 77.2   |

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#5

2-Fluorophenol

Concen: 32.22 ng

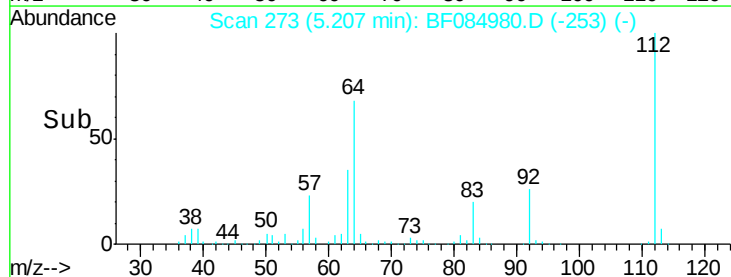
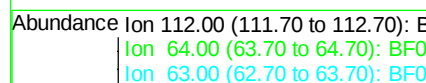
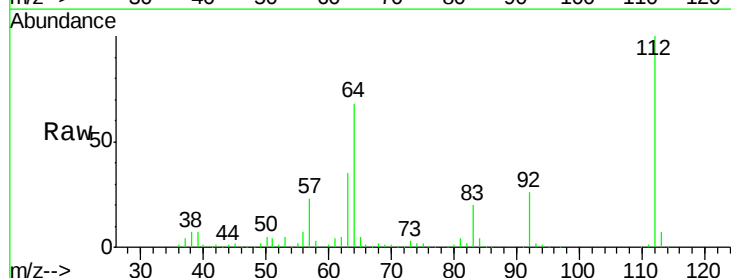
RT: 5.21 min Scan# 273

Delta R.T. -0.07 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 329569 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 67.6  | 36.6  | 55.0#  |
| 63        | 35.0  | 19.4  | 29.0#  |





#7

Phenol-d6

Concen: 34.32 ng

RT: 6.28 min Scan# 367

Delta R.T. -0.06 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

Instrument :

BNA\_F

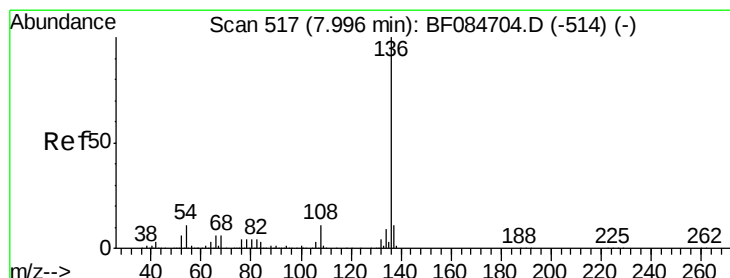
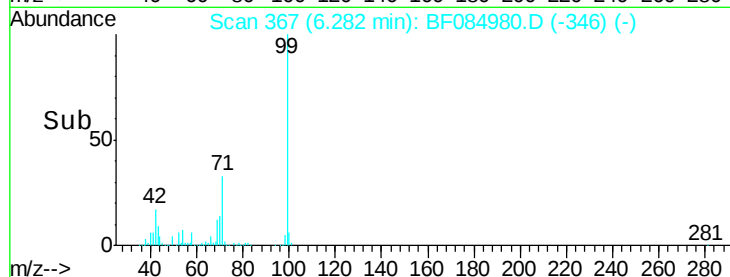
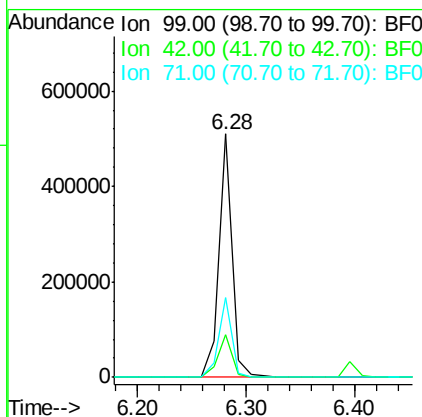
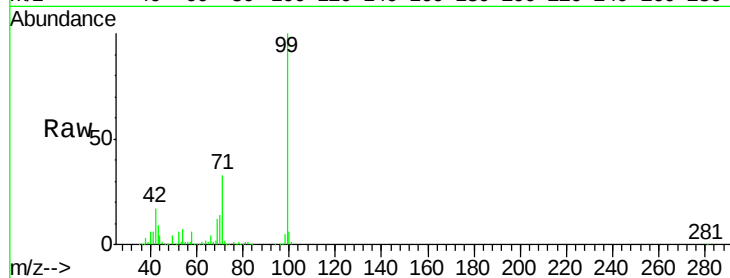
ClientSampleId :

WC-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 435176 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.4  | 12.8  | 19.2   |
| 71        | 33.0  | 30.9  | 46.3   |

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#21

Naphthalene-d8

Concen: 20.00 ng

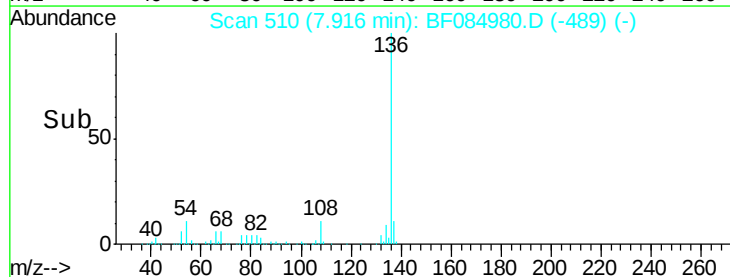
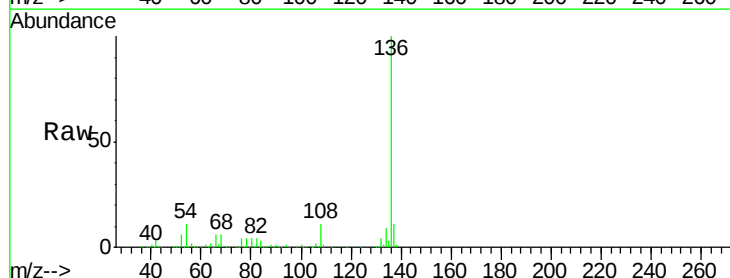
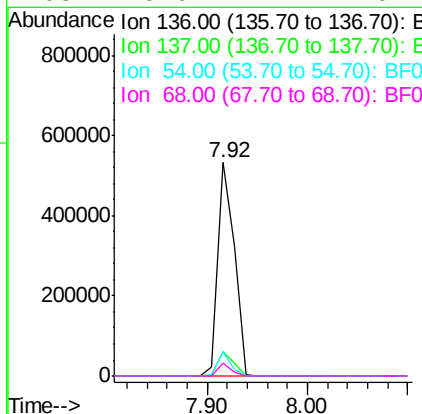
RT: 7.92 min Scan# 510

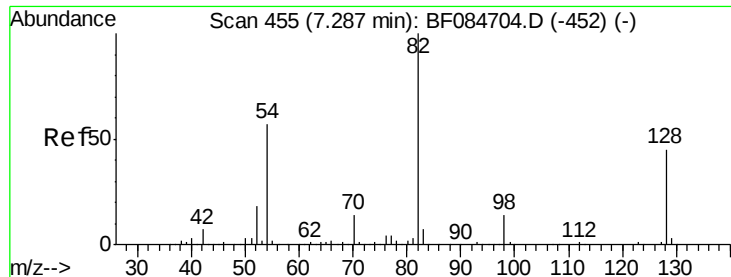
Delta R.T. -0.06 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 606802 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.7   | 13.1   |
| 54        | 11.2  | 5.8   | 8.8#   |
| 68        | 6.0   | 4.2   | 6.2    |





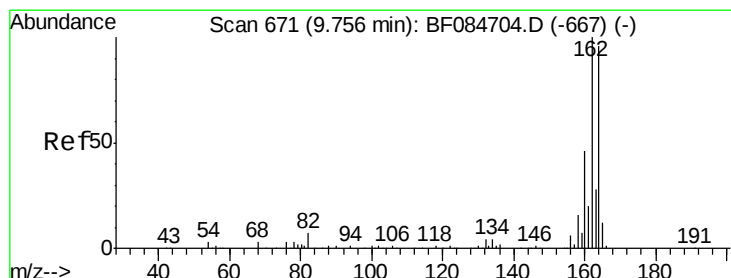
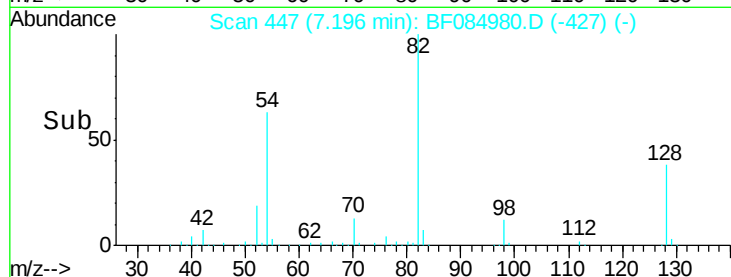
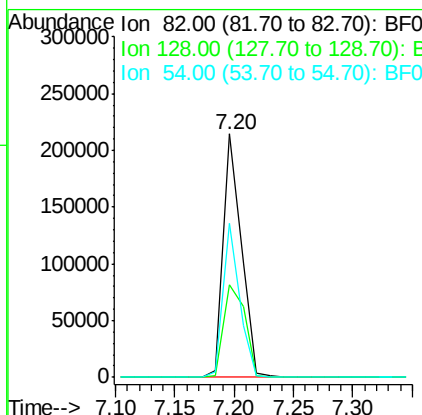
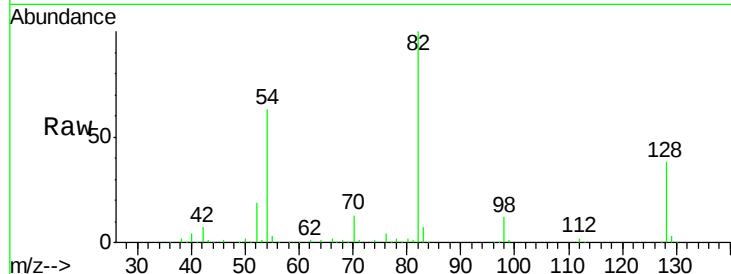
#23  
Nitrobenzene-d5  
Concen: 20.88 ng  
RT: 7.20 min Scan# 447  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

Instrument :  
BNA\_F  
ClientSampled :  
WC-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 224921 |       |       |
| 128     | 37.9  | 34.6   | 51.8  |       |
| 54      | 63.0  | 38.4   | 57.6  |       |

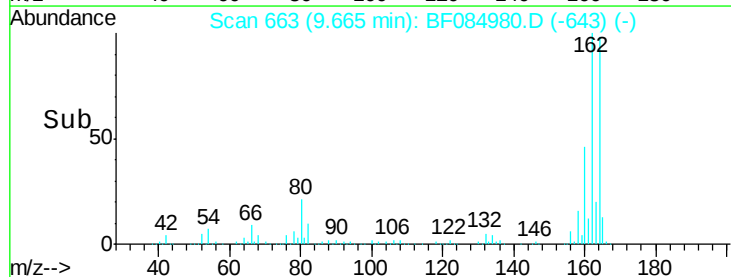
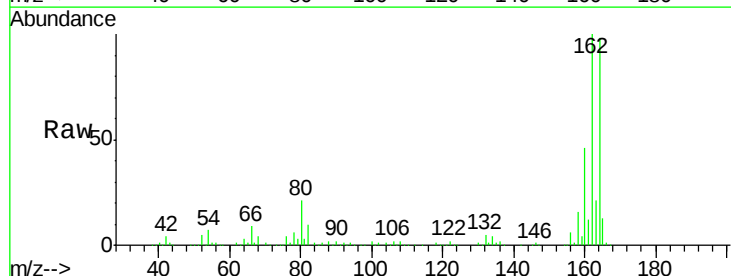
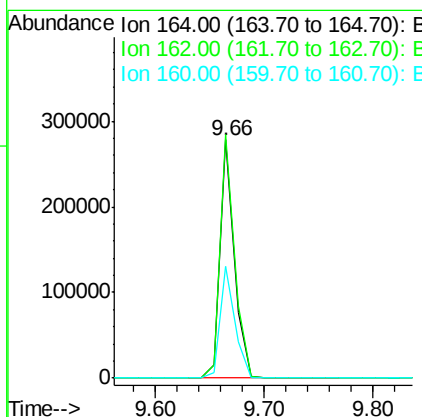
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.66 min Scan# 663  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 256507 |       |       |
| 162     | 102.2 | 85.1   | 127.7 |       |
| 160     | 46.8  | 37.5   | 56.3  |       |





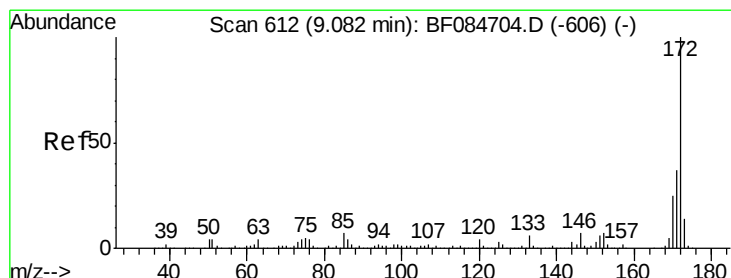
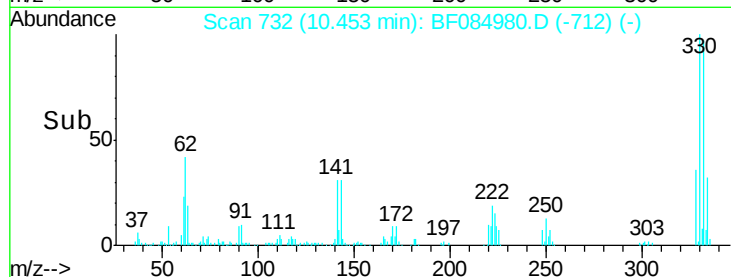
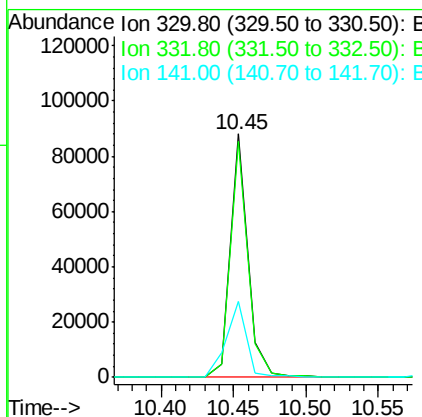
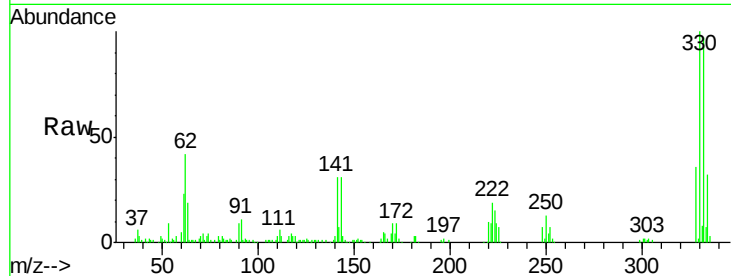
#41  
 2,4,6-Tribromophenol  
 Concen: 27.79 ng  
 RT: 10.45 min Scan# 732  
 Delta R.T. -0.07 min  
 Lab File: BF084980.D  
 Acq: 10 Feb 2016 4:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 76.6  | 114.8 |
| 141     | 36.1  | 27.8  | 41.6  |

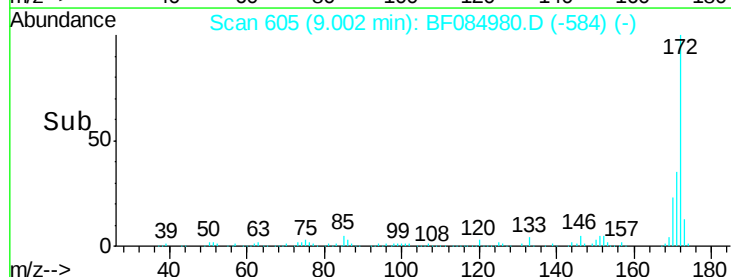
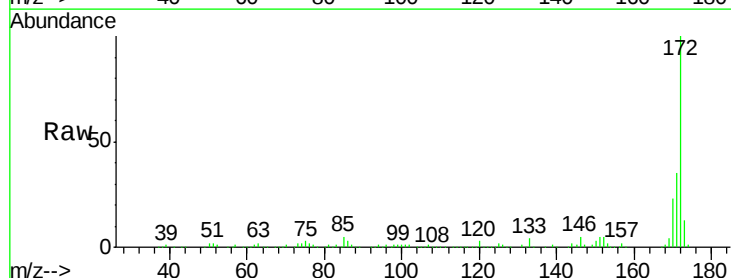
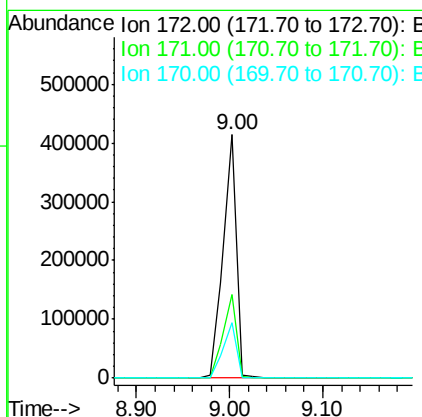
Manual Integrations  
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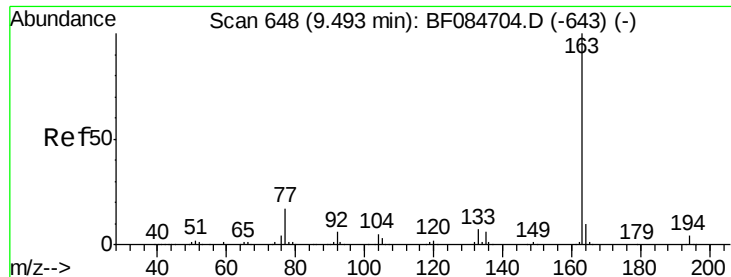
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#44  
 2-Fluorobiphenyl  
 Concen: 20.58 ng  
 RT: 9.00 min Scan# 605  
 Delta R.T. -0.06 min  
 Lab File: BF084980.D  
 Acq: 10 Feb 2016 4:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.9  | 43.3  |
| 170     | 22.8  | 18.6  | 27.8  |





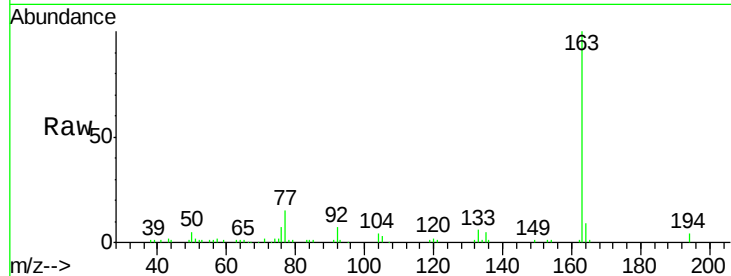
#49  
Dimethylphthalate  
Concen: 3.52 ng  
RT: 9.40 min Scan# 640  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

Instrument :  
BNA\_F  
ClientSampled :  
WC-2

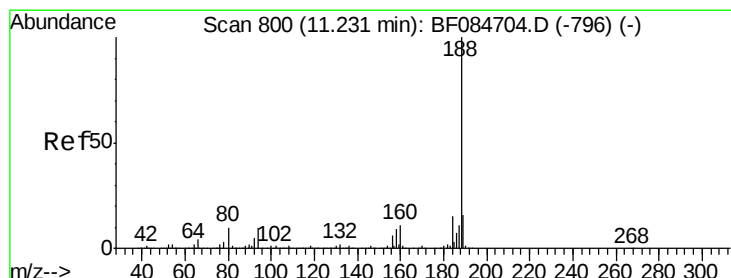
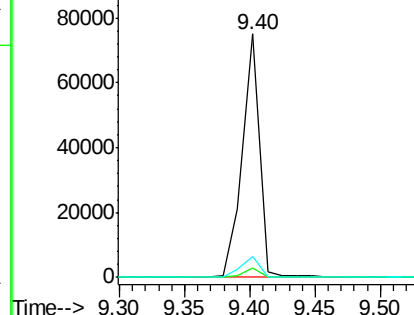
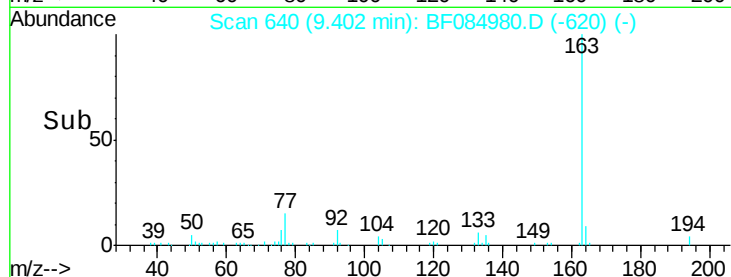
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 4.1   | 8.0        | 12.0# |
| 164     | 8.8   | 8.0        | 12.0  |

Manual Integrations  
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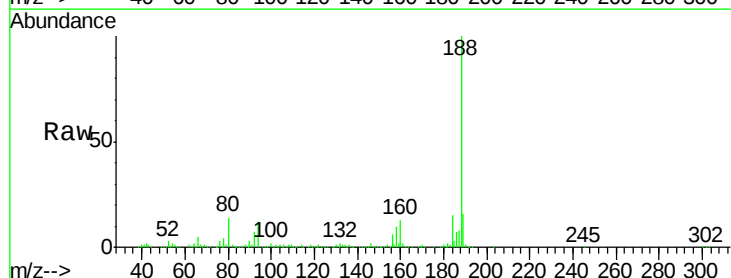


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

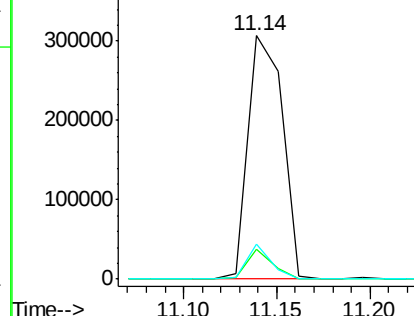
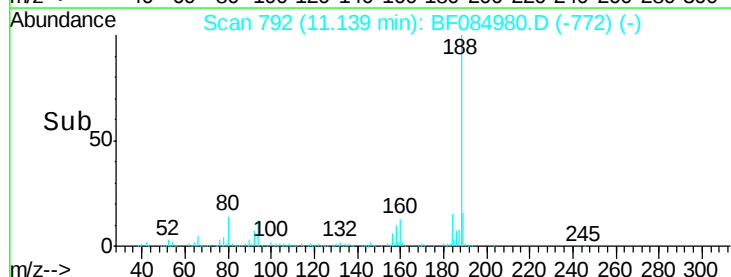


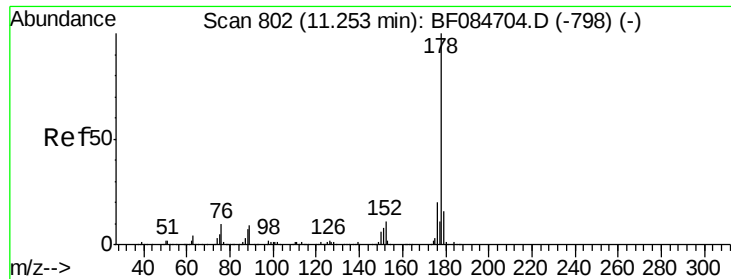
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.14 min Scan# 792  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 12.2  | 9.0        | 13.4  |
| 80      | 14.1  | 9.6        | 14.4  |



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





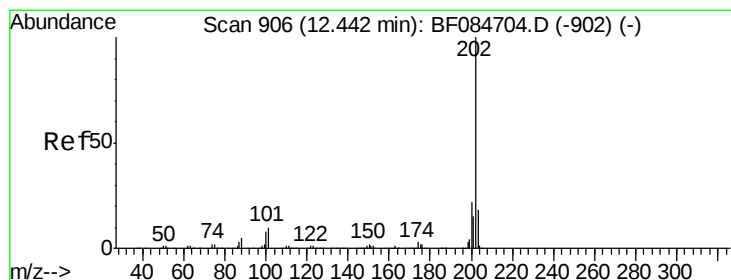
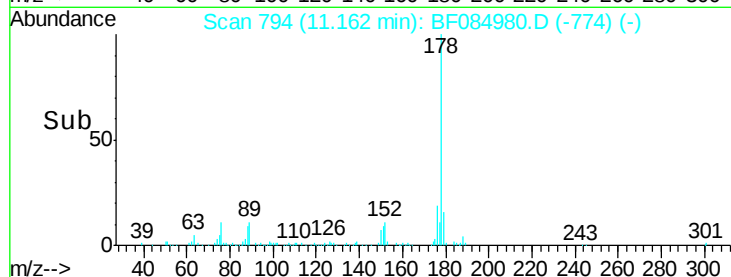
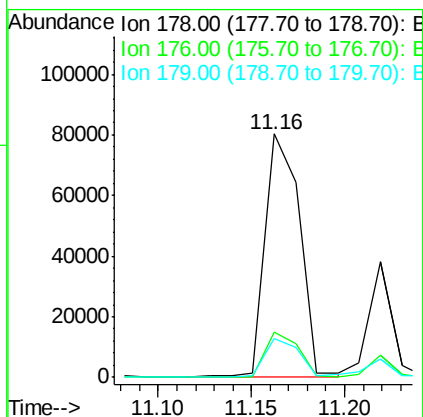
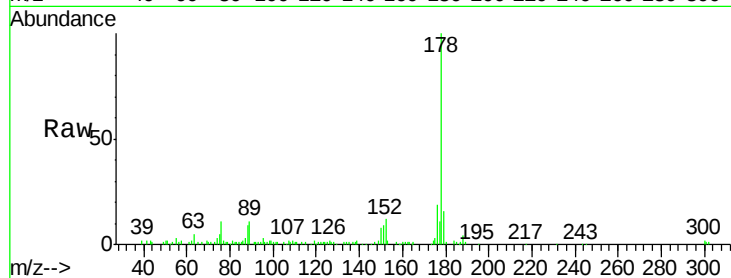
#70  
Phenanthrene  
Concen: 4.63 ng  
RT: 11.16 min Scan# 794  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

Instrument :  
BNA\_F  
ClientSampleId :  
WC-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.3  | 22.9  |
| 179     | 16.0  | 12.0  | 18.0  |

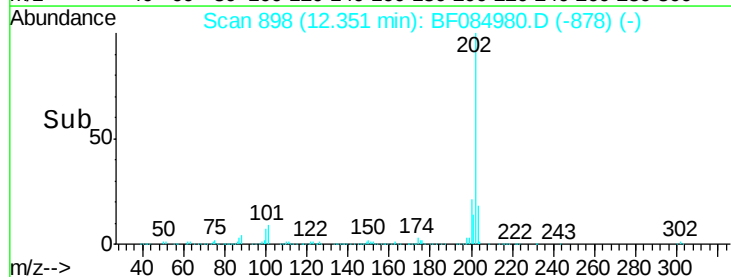
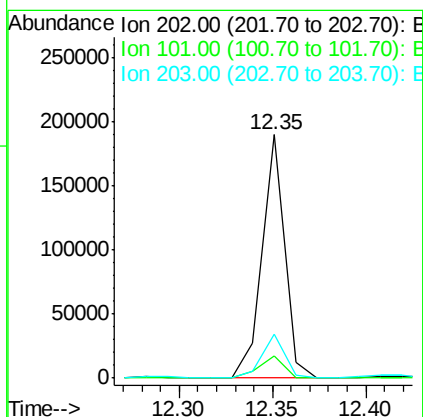
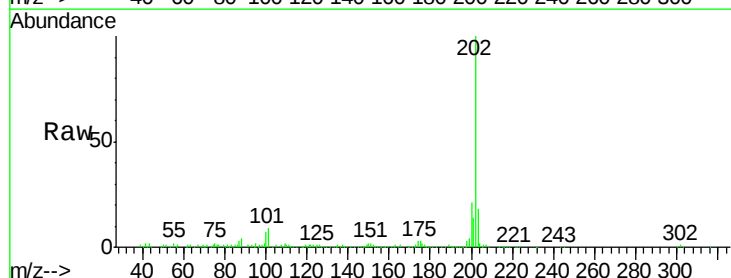
Manual Integrations  
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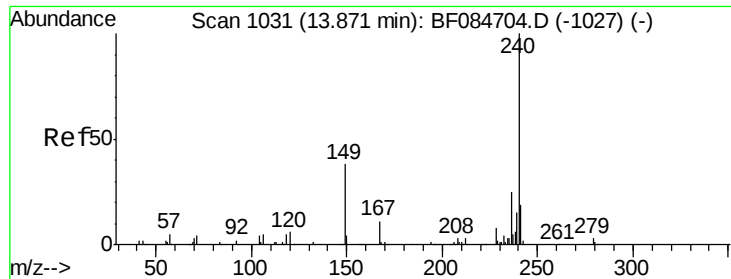
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#74  
Fluoranthene  
Concen: 7.01 ng  
RT: 12.35 min Scan# 898  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 0.0   | 32.8  |
| 203     | 18.0  | 0.0   | 37.9  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1022

Delta R.T. -0.07 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

Instrument :

BNA\_F

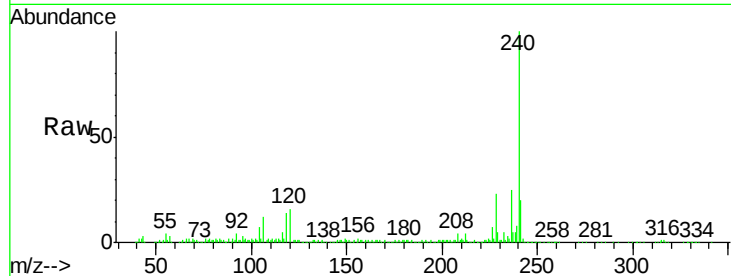
ClientSampleId :

WC-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 16.0  | 9.5   | 14.3# |
| 236     | 24.8  | 20.6  | 31.0  |

Manual Integrations  
APPROVED

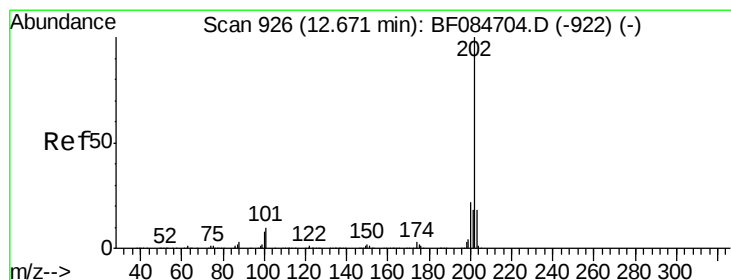
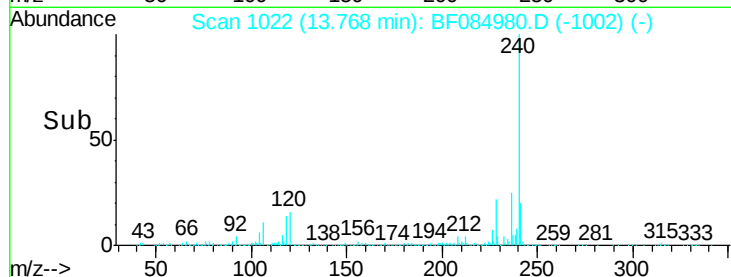
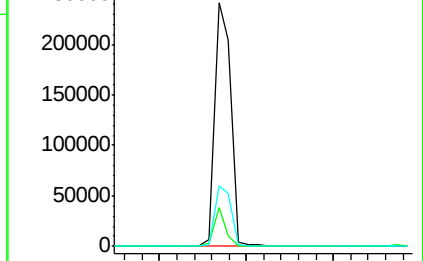
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 6.05 ng

RT: 12.58 min Scan# 918

Delta R.T. -0.06 min

Lab File: BF084980.D

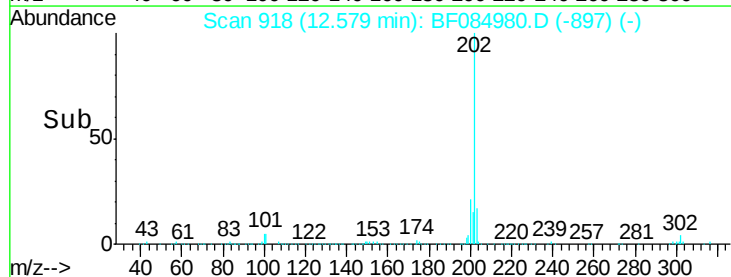
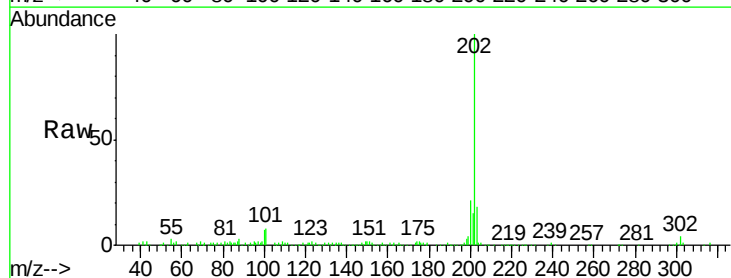
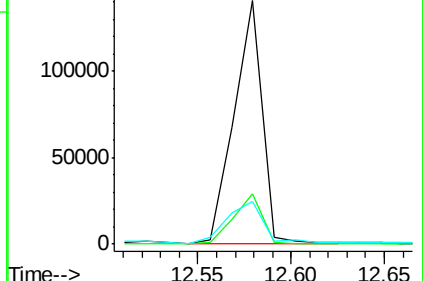
Acq: 10 Feb 2016 4:18

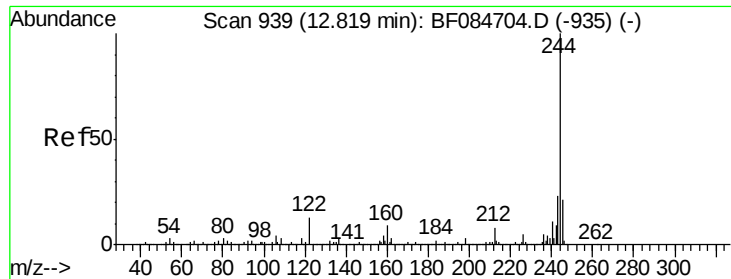
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.6  | 17.2  | 25.8  |
| 203     | 17.5  | 14.3  | 21.5  |

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





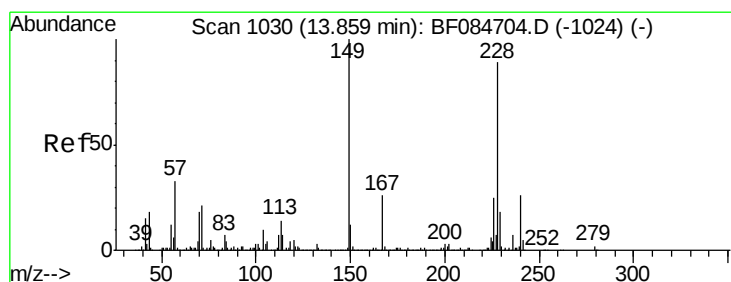
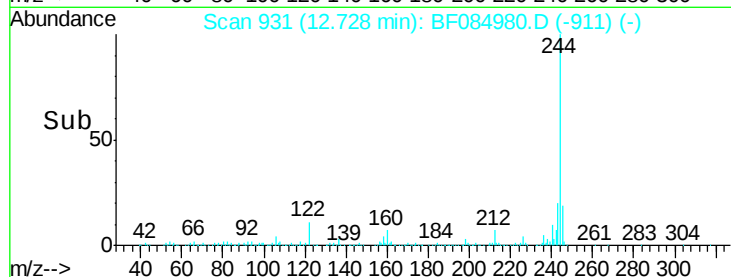
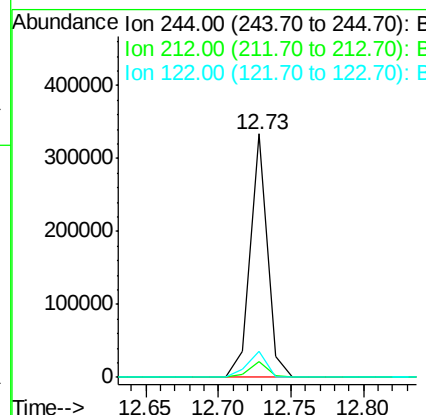
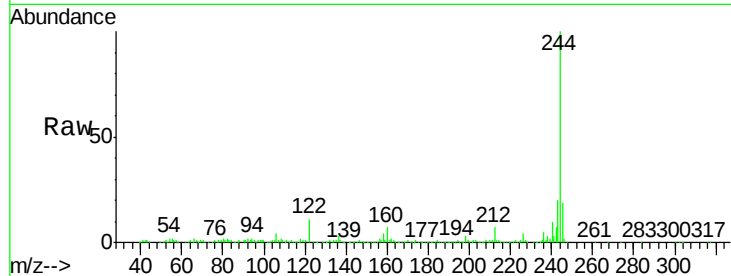
#78  
 Terphenyl-d14  
 Concen: 19.56 ng  
 RT: 12.73 min Scan# 931  
 Delta R.T. -0.07 min  
 Lab File: BF084980.D  
 Acq: 10 Feb 2016 4:18

Instrument :  
 BNA\_F  
 ClientSampled :  
 WC-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 274721 |       |       |
| 212     | 6.7   |        | 5.7   | 8.5   |
| 122     | 10.7  |        | 7.4   | 11.0  |

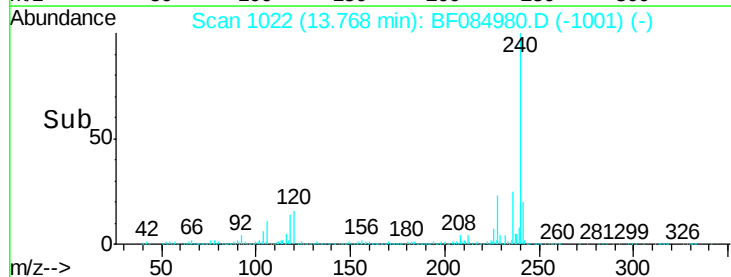
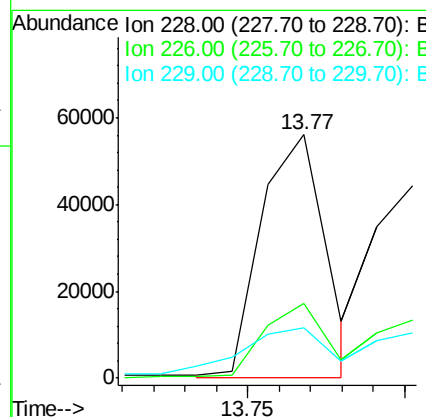
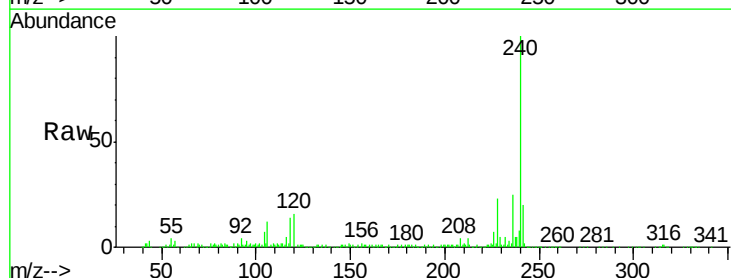
Manual Integrations  
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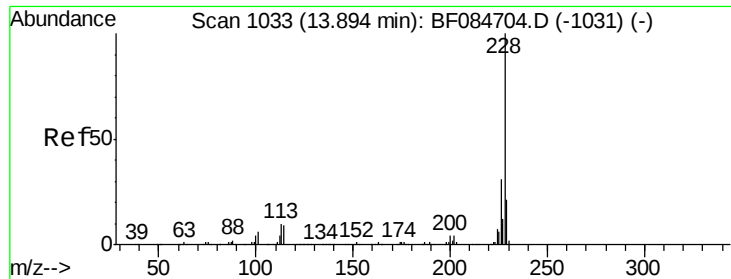
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#80  
 Benzo(a)anthracene  
 Concen: 4.01 ng m  
 RT: 13.77 min Scan# 1022  
 Delta R.T. -0.06 min  
 Lab File: BF084980.D  
 Acq: 10 Feb 2016 4:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 79247 |       |       |
| 226     | 30.5  |       | 21.8  | 32.6  |
| 229     | 20.6  |       | 15.8  | 23.8  |





#82

Chrysene

Concen: 2.99 ng/mL

RT: 13.80 min Scan# 1025

Delta R.T. -0.06 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

Instrument :

BNA\_F

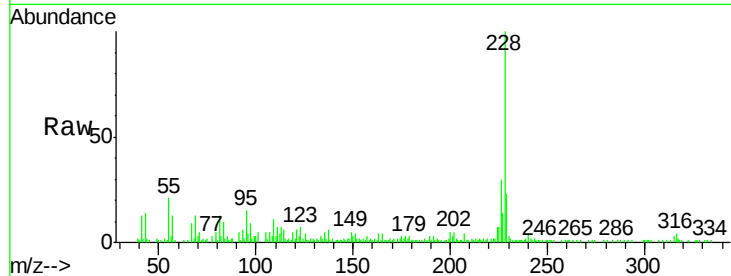
ClientSampled :

WC-2

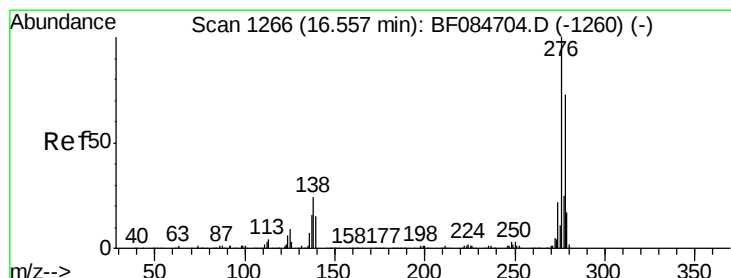
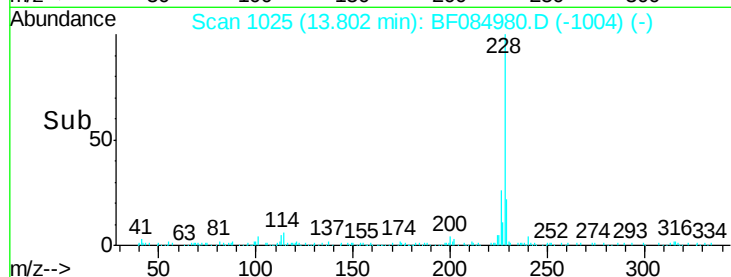
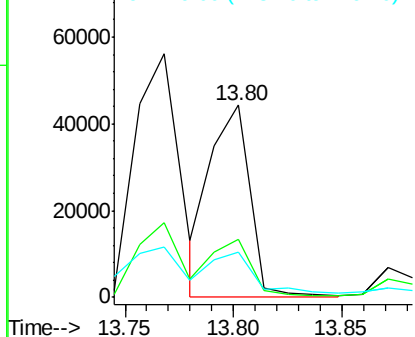
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 57195 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 24.3  | 36.5  |
| 229       | 23.3  | 16.1  | 24.1  |

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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



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.21 ng/mL

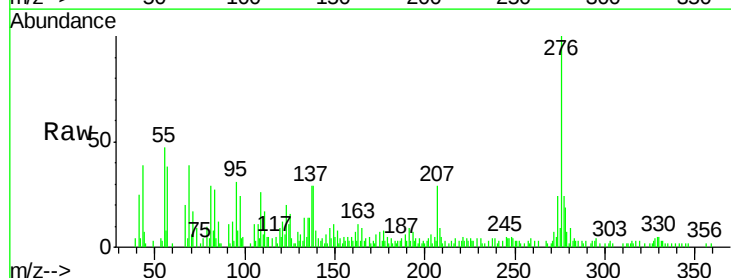
RT: 16.39 min Scan# 1251

Delta R.T. -0.11 min

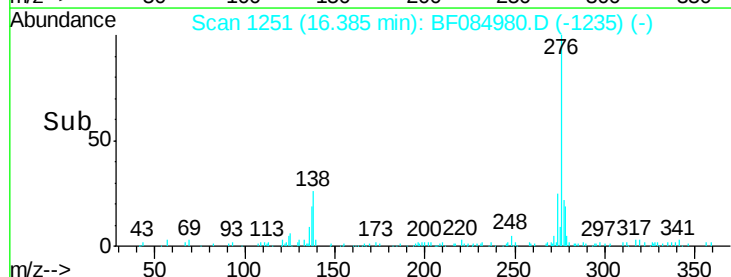
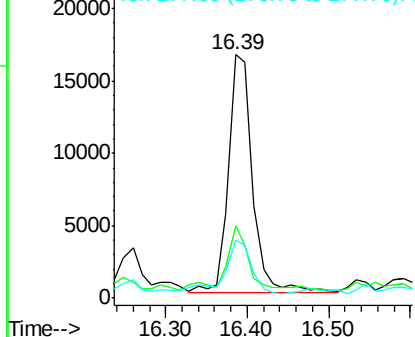
Lab File: BF084980.D

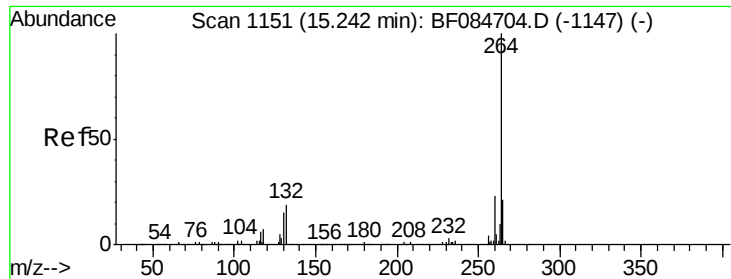
Acq: 10 Feb 2016 4:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 33313 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.3  | 20.6  | 30.8  |
| 277       | 24.7  | 20.1  | 30.1  |



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





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.14 min Scan# 1142

Delta R.T. -0.07 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

Instrument :

BNA\_F

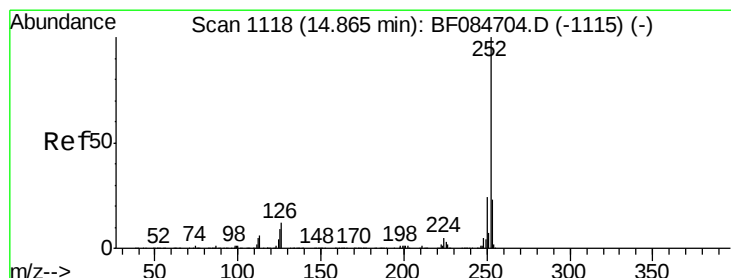
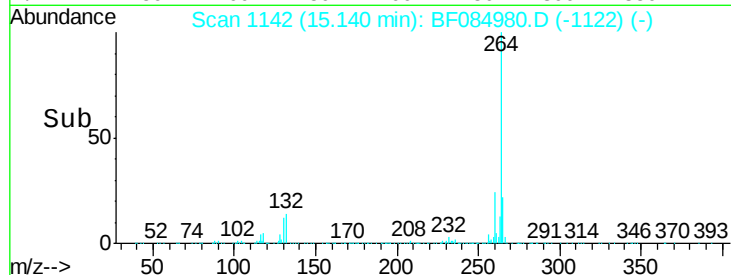
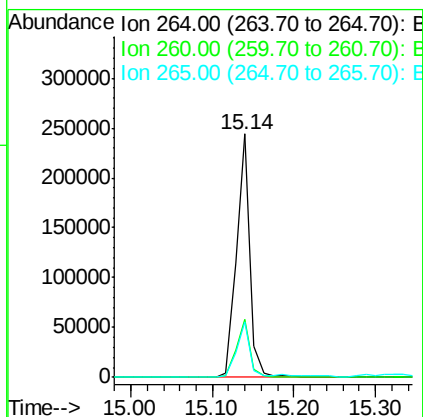
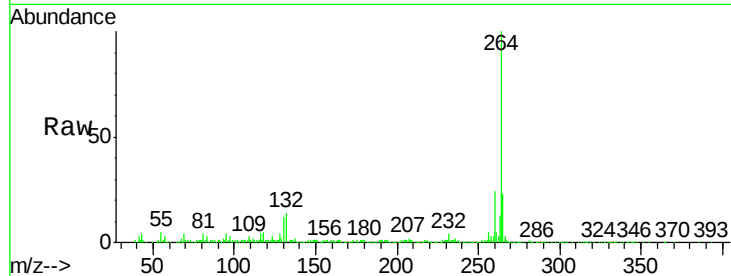
ClientSampleId :

WC-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 279444 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.0  | 19.4  | 29.2   |
| 265       | 22.6  | 17.8  | 26.6   |

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#87

Benzo(b)fluoranthene

Concen: 4.70 ng m

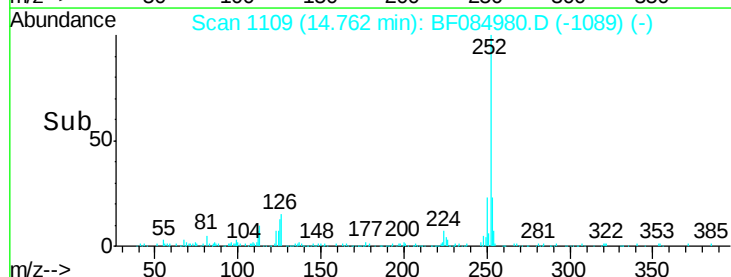
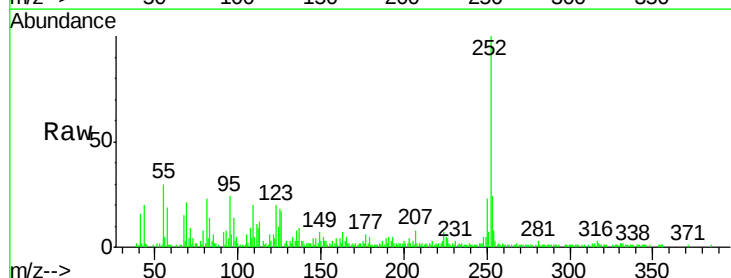
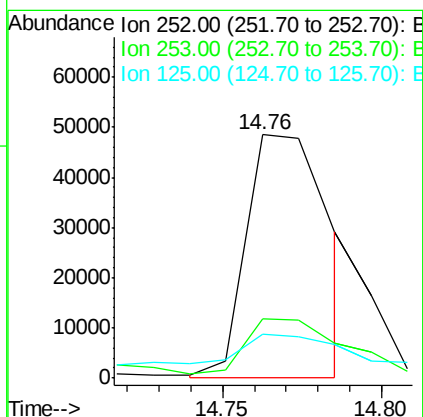
RT: 14.76 min Scan# 1109

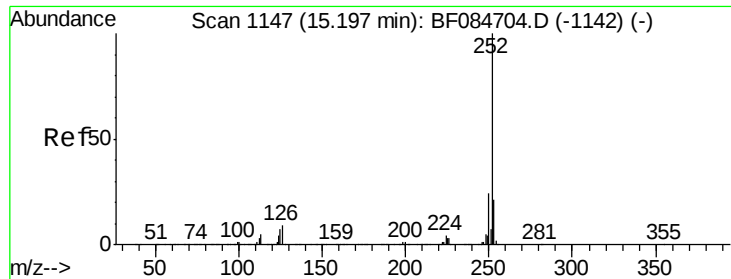
Delta R.T. -0.07 min

Lab File: BF084980.D

Acq: 10 Feb 2016 4:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 88307 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.5  | 17.3  | 25.9  |
| 125       | 17.9  | 6.5   | 9.7#  |





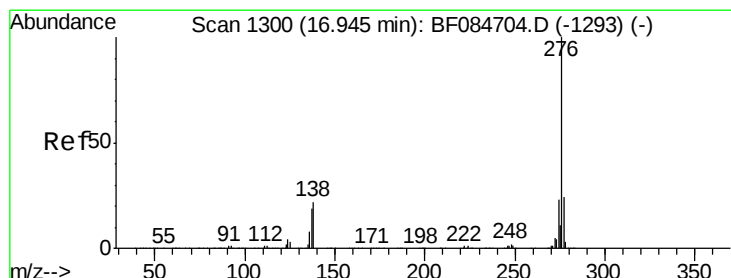
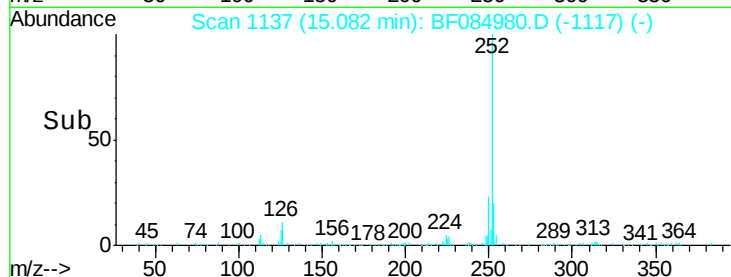
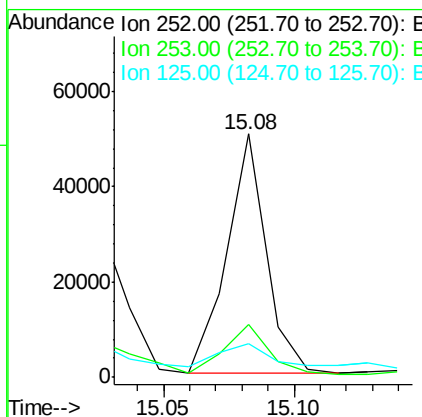
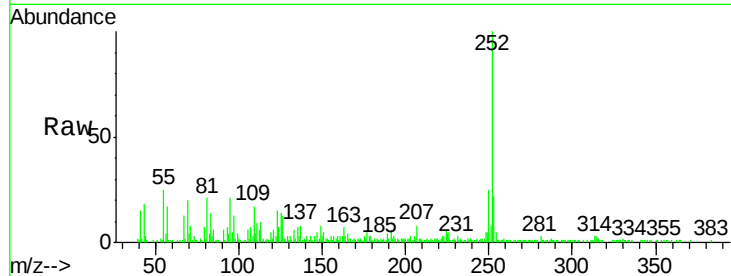
#89  
Benzo(a)pyrene  
Concen: 3.33 ng  
RT: 15.08 min Scan# 1137  
Delta R.T. -0.07 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

Instrument :  
BNA\_F  
ClientSampleId :  
WC-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.3  | 25.9  |
| 125     | 13.6  | 7.0   | 10.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.35 ng  
RT: 16.76 min Scan# 1284  
Delta R.T. -0.13 min  
Lab File: BF084980.D  
Acq: 10 Feb 2016 4:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.3  | 18.8  | 28.2  |
| 138     | 22.1  | 17.8  | 26.6  |

