

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032416\  
 Data File : BF085755.D  
 Acq On : 25 Mar 2016 11:20  
 Operator : UM/SJ  
 Sample : H1907-07  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WASTE

Manual Integrations  
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 3/25/2016 5:56:58 PM

Quant Time: Mar 25 14:45:11 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 24 14:15:39 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 110563   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 393670   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.86  | 164  | 164742   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.35 | 188  | 252435   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.98 | 240  | 231080   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.40 | 264  | 195284   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 720465   | 108.52 | ng    | 0.02     |
| 7) Phenol-d6                | 6.46  | 99   | 815973   | 96.67  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 545083   | 77.97  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330  | 153724   | 98.21  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.19  | 172  | 831116   | 84.29  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.93 | 244  | 550273   | 48.97  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.58  | 163  | 187320   | 14.99  | ng    | 100      |
| 70) Phenanthrene            | 11.37 | 178  | 167703   | 12.94  | ng    | 98       |
| 71) Anthracene              | 11.42 | 178  | 44530    | 3.27   | ng    | 98       |
| 74) Fluoranthene            | 12.55 | 202  | 184840   | 13.42  | ng    | 98       |
| 77) Pyrene                  | 12.78 | 202  | 164945   | 8.68   | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.97 | 228  | 88716    | 6.73   | ng    | 97       |
| 82) Chrysene                | 14.00 | 228  | 60545    | 4.56   | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.78 | 276  | 32970    | 3.22   | ng    | # 90     |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 79434m   | 6.46   | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.02 | 252  | 28751m   | 2.59   | ng    |          |
| 89) Benzo(a)pyrene          | 15.34 | 252  | 54690    | 5.01   | ng    | 98       |
| 91) Benzo(g,h,i)perylene    | 17.20 | 276  | 28080    | 2.73   | ng    | 95       |

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

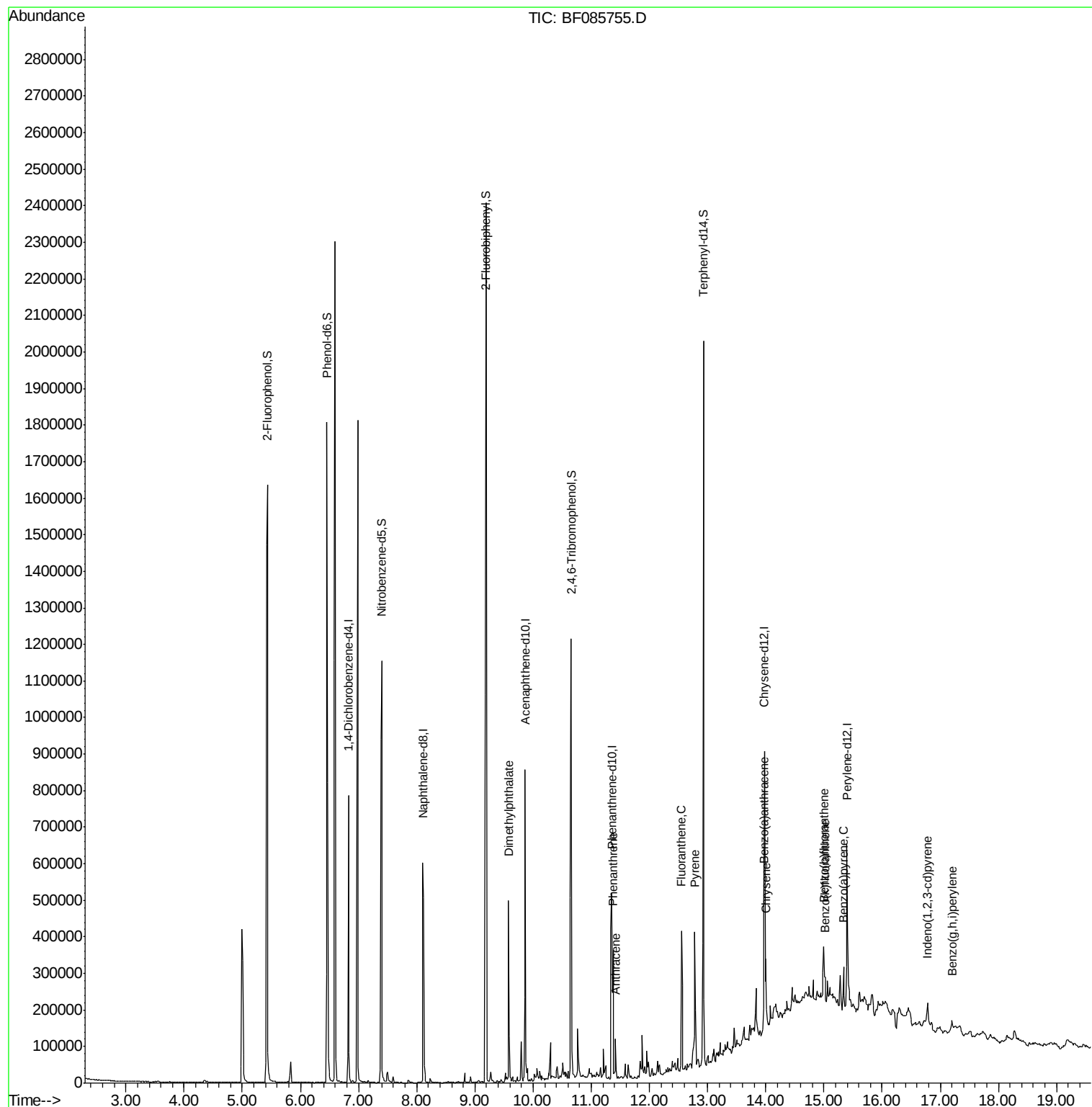
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032416\  
Data File : BF085755.D  
Acq On : 25 Mar 2016 11:20  
Operator : UM/SJ  
Sample : H1907-07  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

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WASTE

Manual Integrations  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 24 14:15:39 2016  
Response via : Initial Calibration





#1

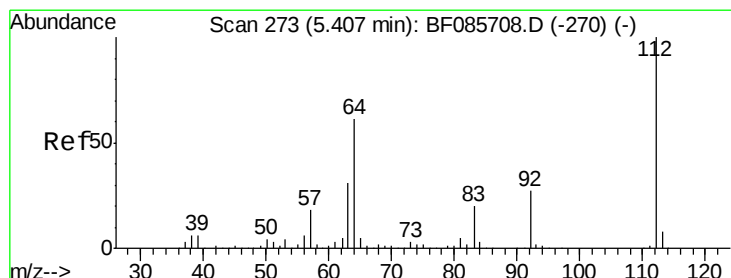
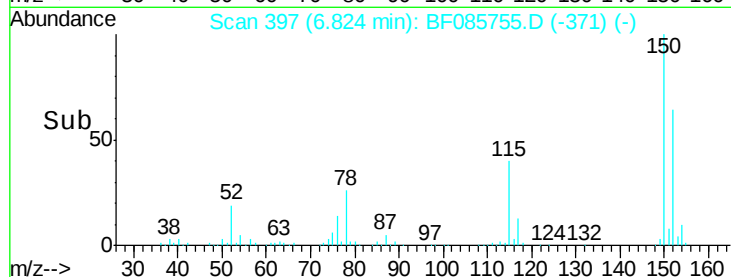
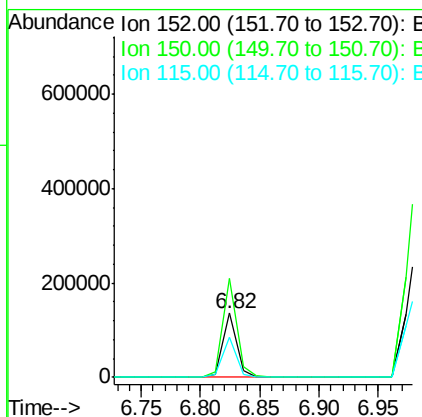
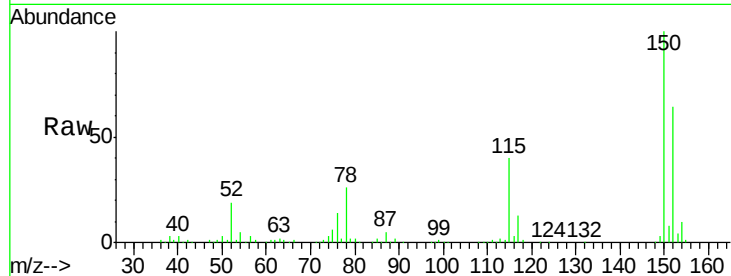
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.82 min Scan# 397  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

Instrument :  
BNA\_F  
ClientSampleId :  
WASTE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 124.2 | 186.2 |
| 115     | 62.5  | 47.0  | 70.6  |

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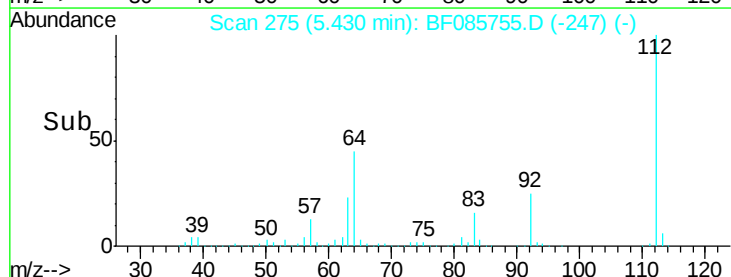
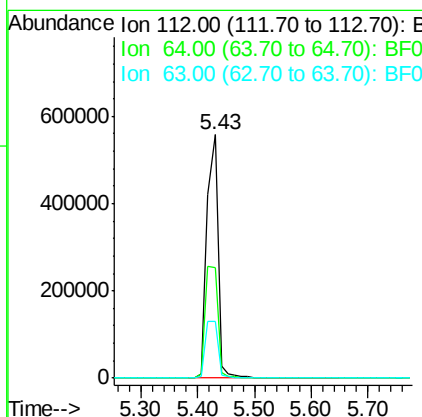
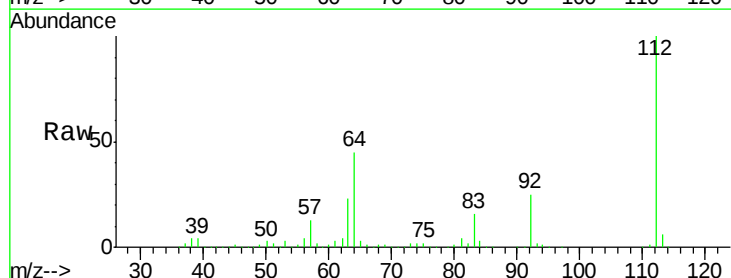
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#5

2-Fluorophenol  
Concen: 108.52 ng  
RT: 5.43 min Scan# 275  
Delta R.T. 0.02 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 45.5  | 39.9  | 59.9  |
| 63      | 23.2  | 20.2  | 30.2  |





#7

Phenol-d6

Concen: 96.67 ng

RT: 6.46 min Scan# 365

Delta R.T. -0.00 min

Lab File: BF085755.D

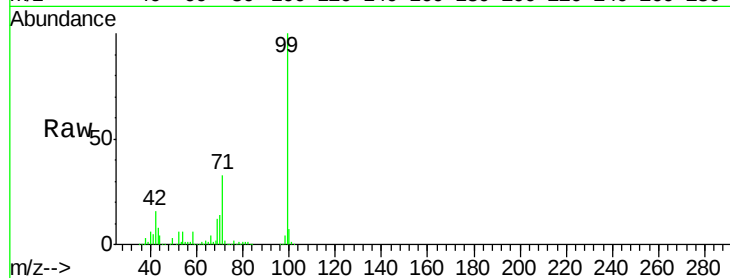
Acq: 25 Mar 2016 11:20

Instrument :

BNA\_F

ClientSampleId :

WASTE



Tgt Ion: 99 Resp: 815973

Ion Ratio Lower Upper

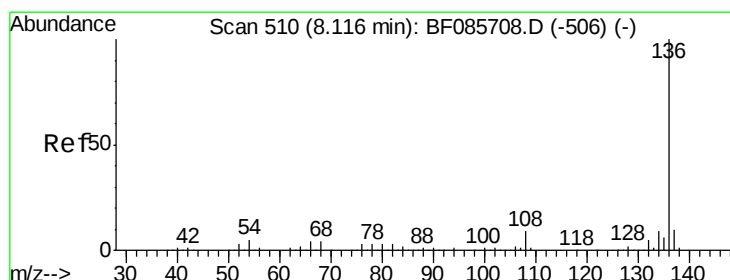
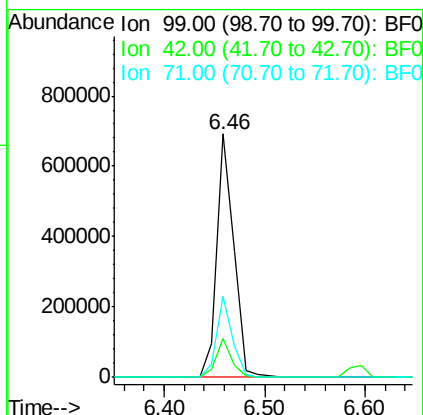
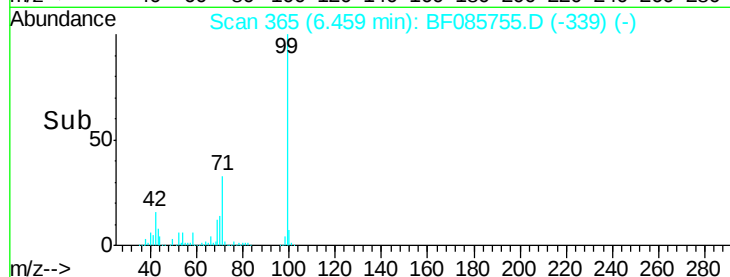
99 100

42 15.7 11.1 16.7

71 33.0 24.9 37.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085755.D

Acq: 25 Mar 2016 11:20

Tgt Ion: 136 Resp: 393670

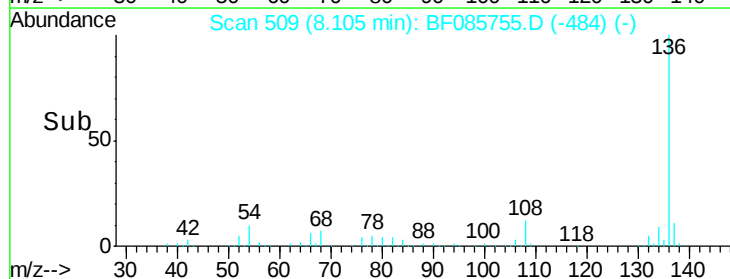
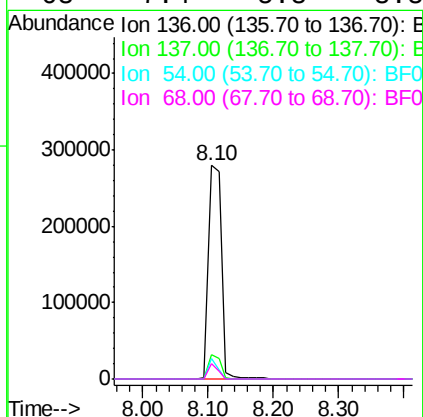
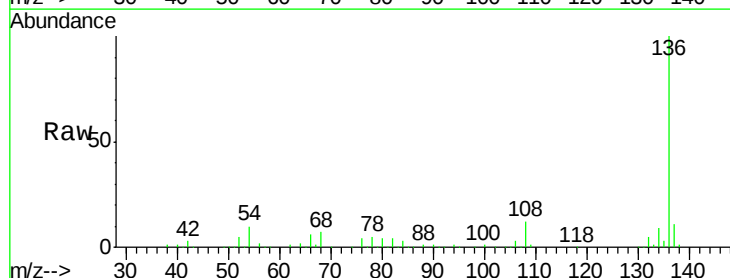
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 9.5 7.4 11.0

68 7.4 5.8 8.8





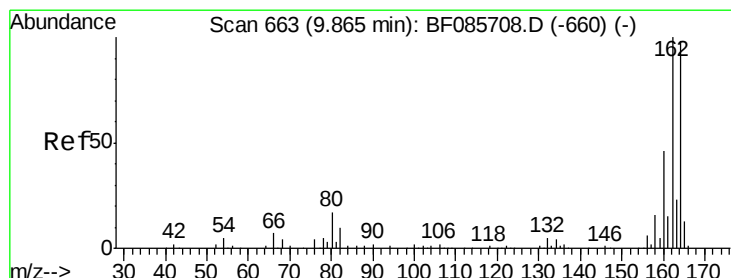
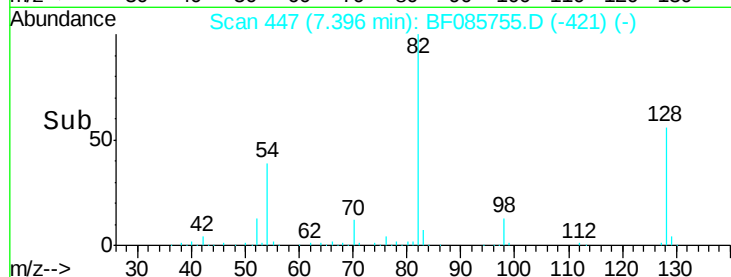
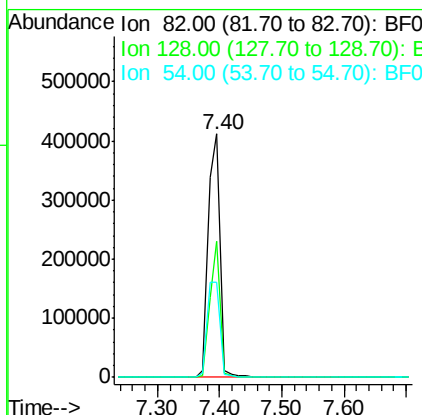
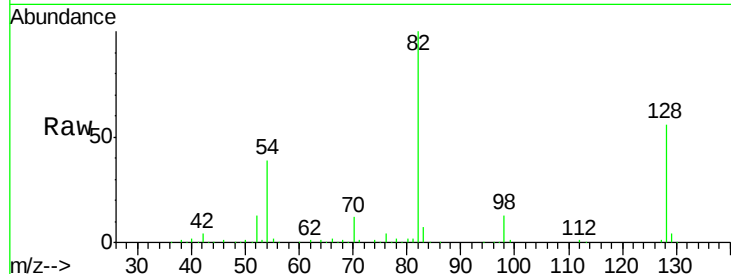
#23  
 Nitrobenzene-d5  
 Concen: 77.97 ng  
 RT: 7.40 min Scan# 447  
 Delta R.T. -0.00 min  
 Lab File: BF085755.D  
 Acq: 25 Mar 2016 11:20

Instrument :  
 BNA\_F  
 ClientSampled :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 55.7  | 41.8  | 62.8  |
| 54      | 39.3  | 33.4  | 50.0  |

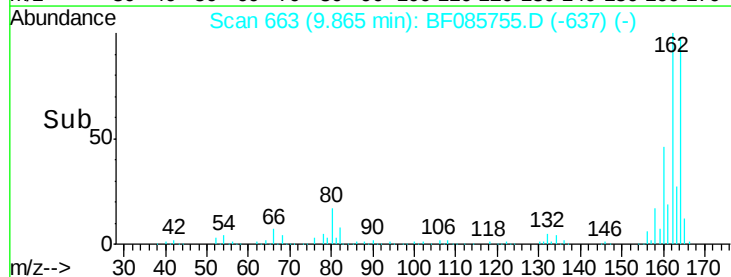
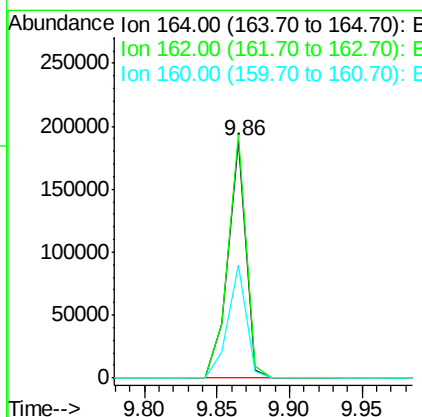
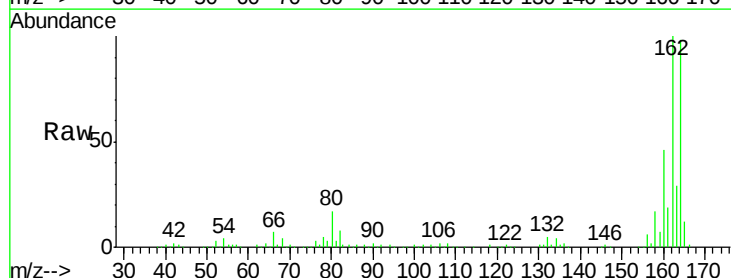
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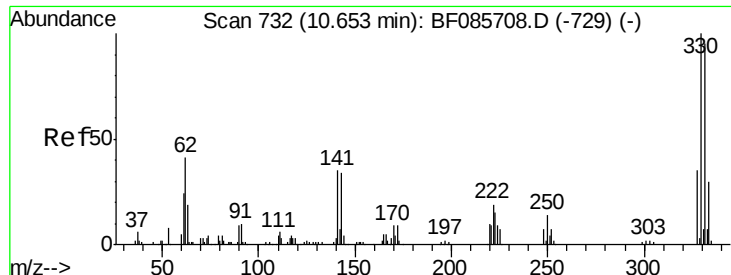
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.86 min Scan# 663  
 Delta R.T. -0.00 min  
 Lab File: BF085755.D  
 Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.4 | 82.1  | 123.1 |
| 160     | 47.6  | 37.4  | 56.2  |





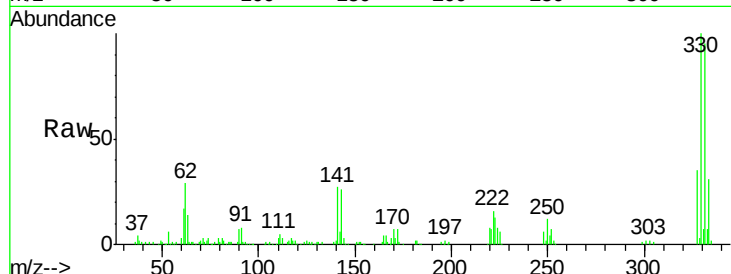
#41  
 2,4,6-Tribromophenol  
 Concen: 98.21 ng  
 RT: 10.65 min Scan# 732  
 Delta R.T. -0.00 min  
 Lab File: BF085755.D  
 Acq: 25 Mar 2016 11:20

Instrument :  
 BNA\_F  
 ClientSampled :  
 WASTE

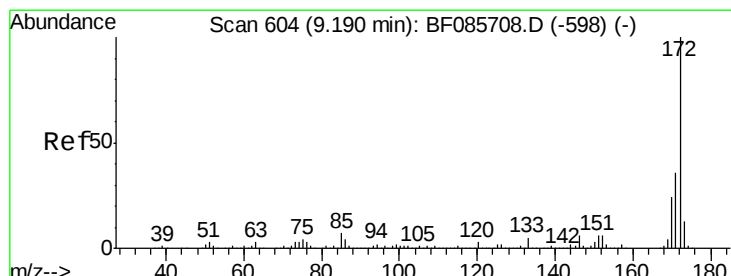
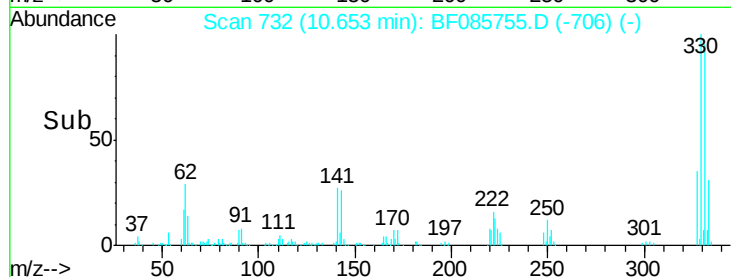
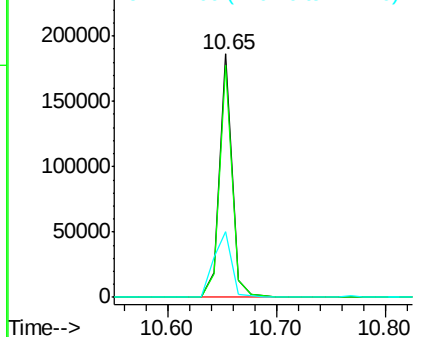
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 153724 |       |       |
| 332     | 95.5  | 78.2   | 117.2 |       |
| 141     | 38.5  | 31.5   | 47.3  |       |

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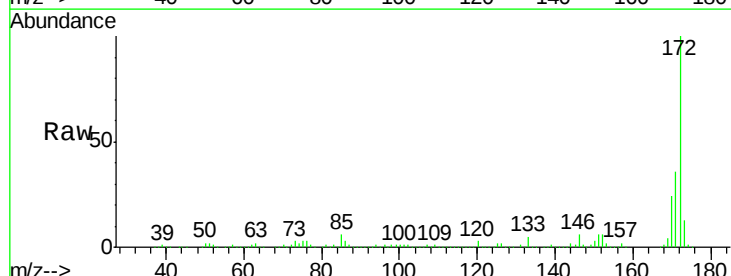


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

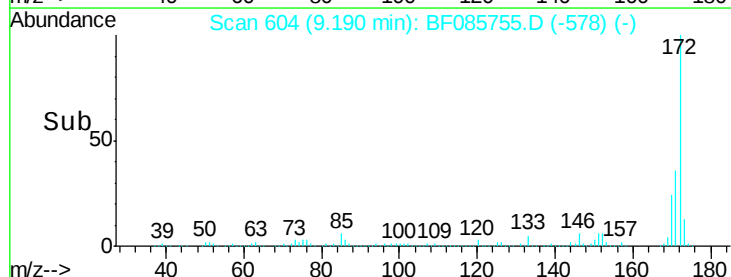
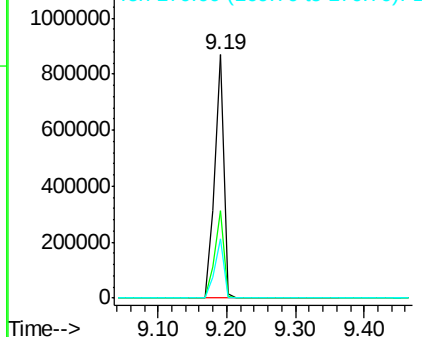


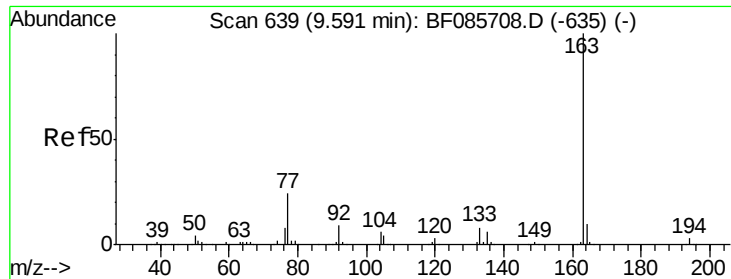
#44  
 2-Fluorobiphenyl  
 Concen: 84.29 ng  
 RT: 9.19 min Scan# 604  
 Delta R.T. -0.00 min  
 Lab File: BF085755.D  
 Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 831116 |       |       |
| 171     | 35.8  | 29.4   | 44.2  |       |
| 170     | 24.3  | 19.8   | 29.6  |       |



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





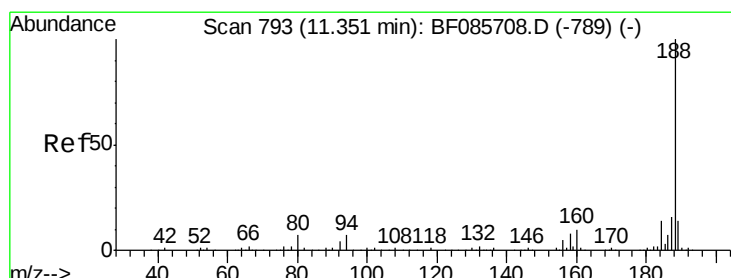
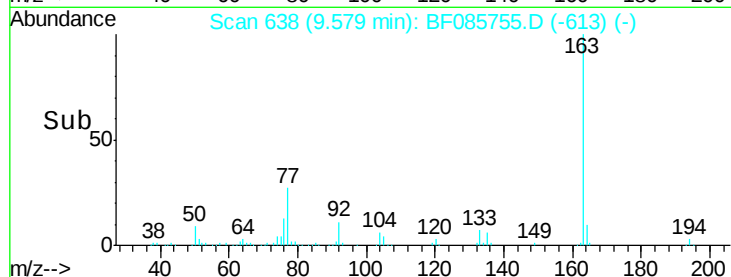
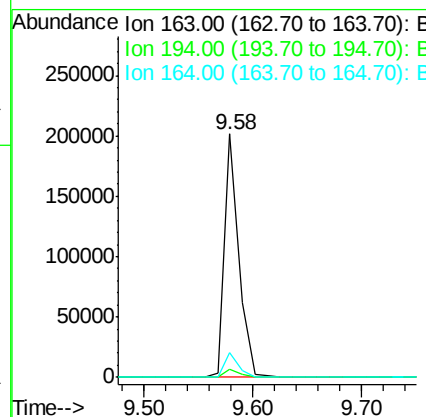
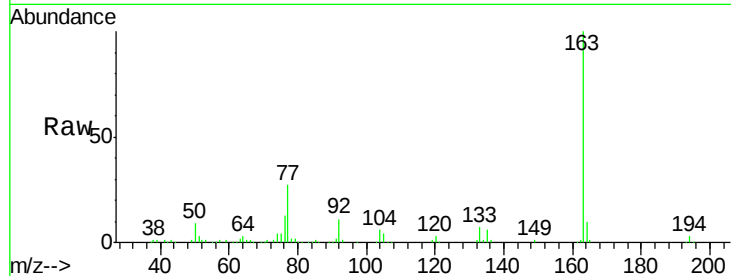
#49  
Dimethylphthalate  
Concen: 14.99 ng  
RT: 9.58 min Scan# 638  
Delta R.T. -0.01 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

Instrument :  
BNA\_F  
ClientSampled :  
WASTE

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 3.2   | 2.9        | 4.3        |
| 164     | 10.3  | 8.3        | 12.5       |

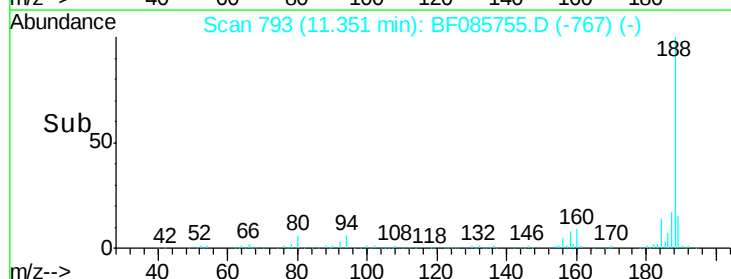
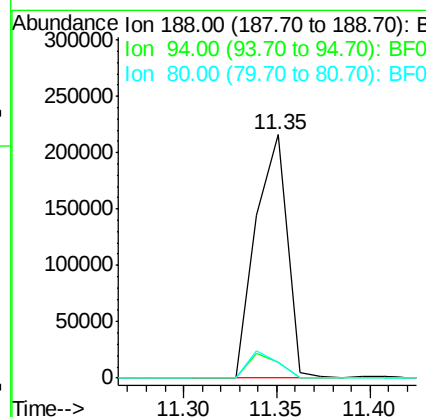
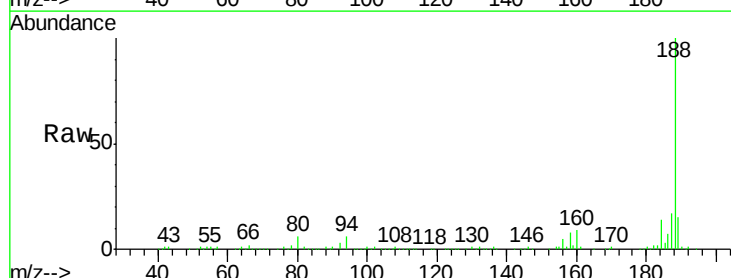
Manual Integrations  
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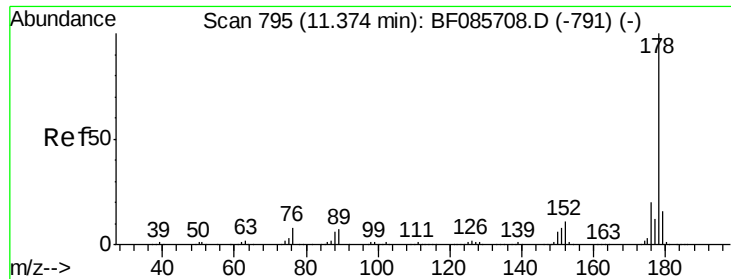
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.35 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 6.5   | 5.4        | 8.0        |
| 80      | 6.3   | 5.5        | 8.3        |





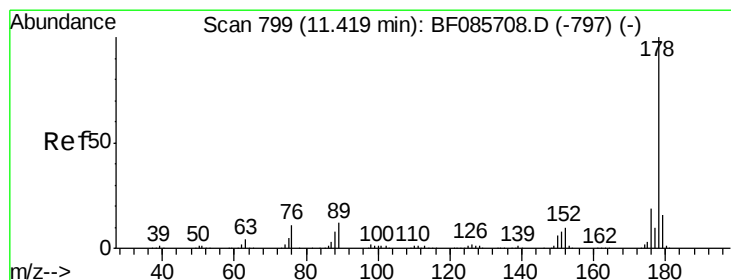
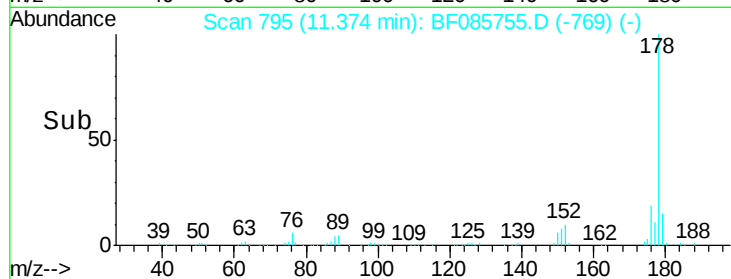
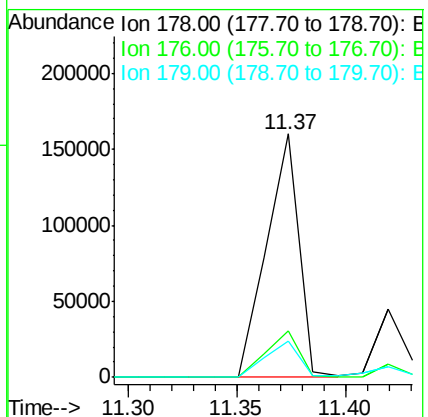
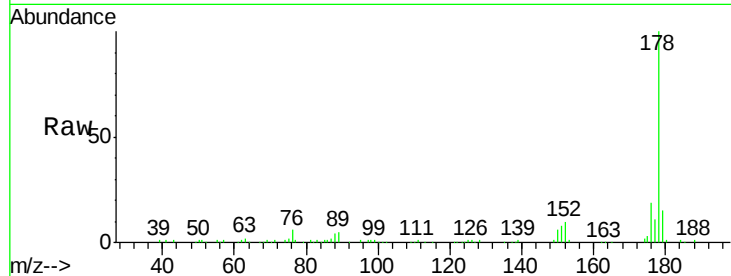
#70  
Phenanthrene  
Concen: 12.94 ng  
RT: 11.37 min Scan# 795  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

Instrument :  
BNA\_F  
ClientSampleId :  
WASTE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 16.3  | 24.5  |
| 179     | 15.0  | 12.6  | 18.8  |

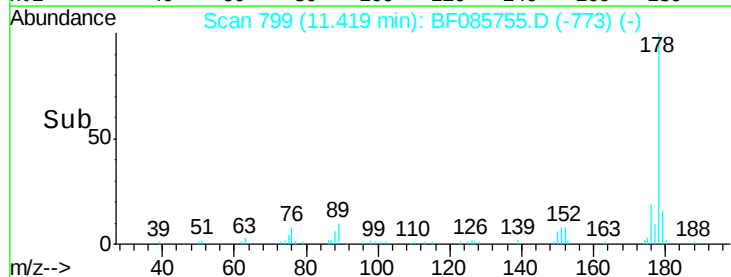
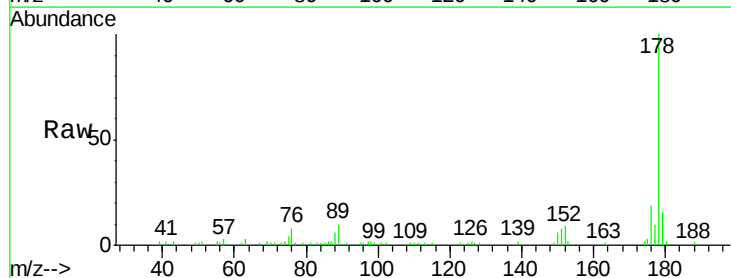
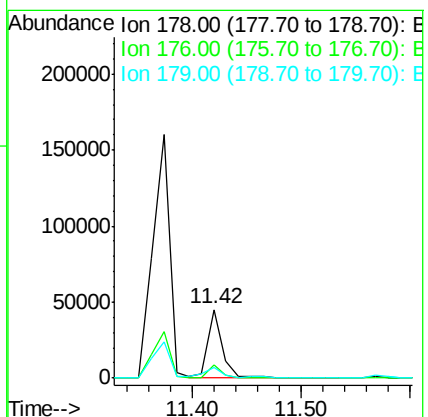
Manual Integrations  
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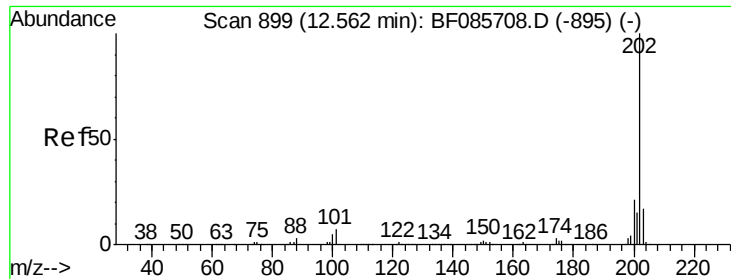
Sohil  
3/25/2016 5:56:58 PM



#71  
Anthracene  
Concen: 3.27 ng  
RT: 11.42 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 15.9  | 23.9  |
| 179     | 15.8  | 13.0  | 19.4  |





#74

Fluoranthene

Concen: 13.42 ng

RT: 12.55 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF085755.D

Acq: 25 Mar 2016 11:20

Instrument :

BNA\_F

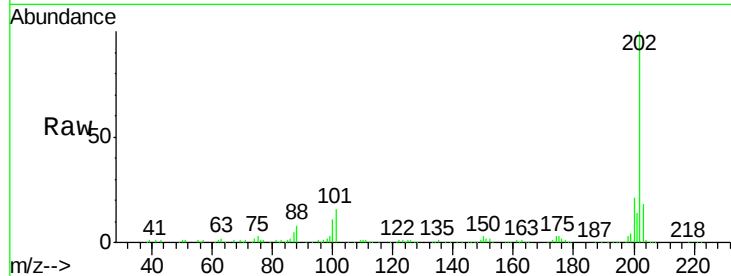
ClientSampleId :

WASTE

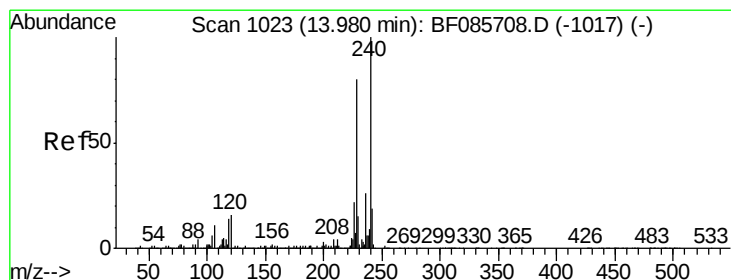
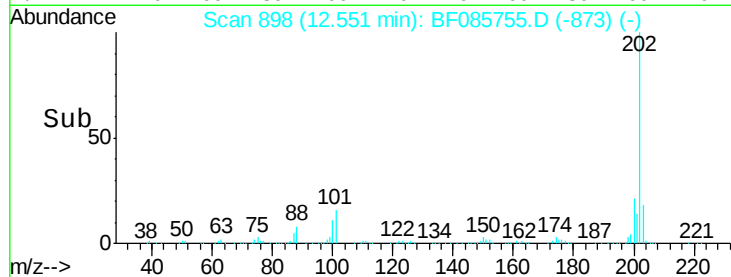
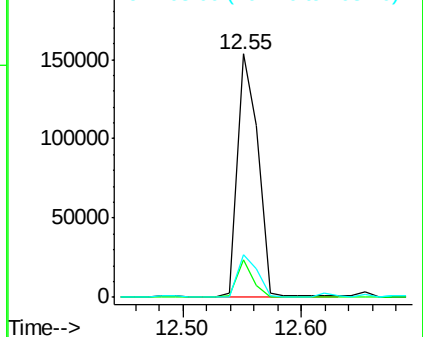
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 184840 |       |       |
| 101 | 15.5 | 0.0   | 36.6   |       |       |
| 203 | 17.7 | 0.0   | 38.1   |       |       |

Manual Integrations  
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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

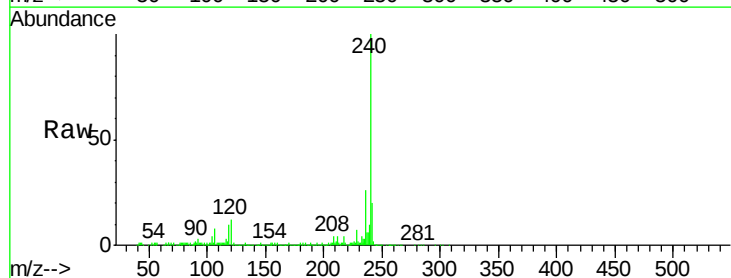
RT: 13.98 min Scan# 1023

Delta R.T. -0.00 min

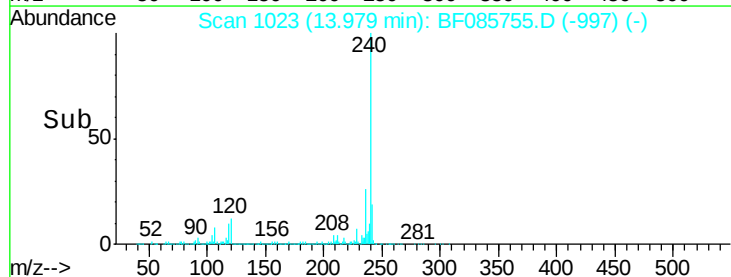
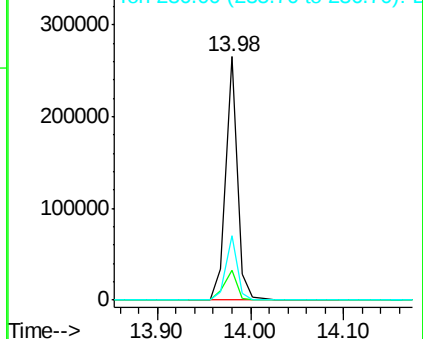
Lab File: BF085755.D

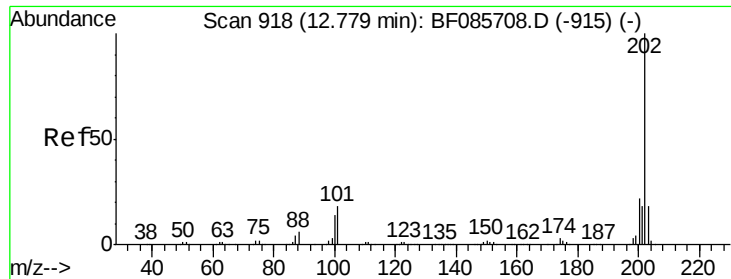
Acq: 25 Mar 2016 11:20

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 240 | 100  |       | 231080 |       |       |
| 120 | 12.0 | 13.8  | 20.8#  |       |       |
| 236 | 26.4 | 20.6  | 30.8   |       |       |



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: 8.68 ng

RT: 12.78 min Scan# 918

Delta R.T. -0.00 min

Lab File: BF085755.D

Acq: 25 Mar 2016 11:20

Instrument :

BNA\_F

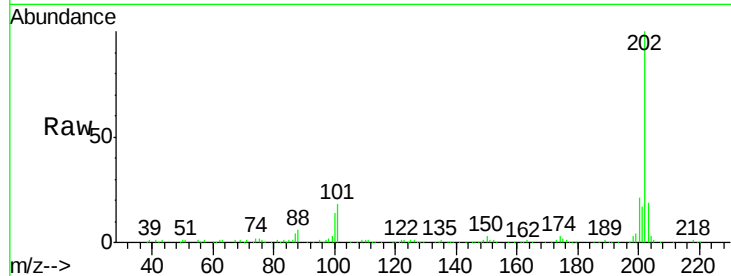
ClientSampleId :

WASTE

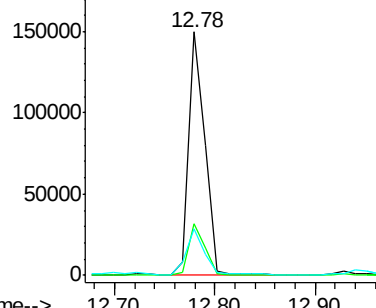
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 164945 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 17.6  | 26.4   |
| 203       | 18.9  | 14.0  | 21.0   |

Manual Integrations  
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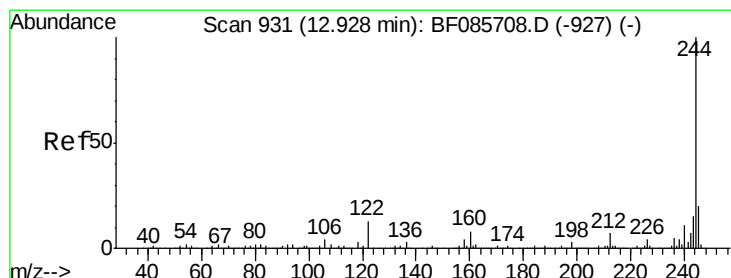
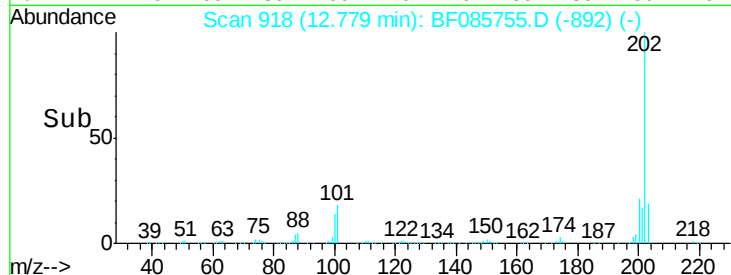
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 48.97 ng

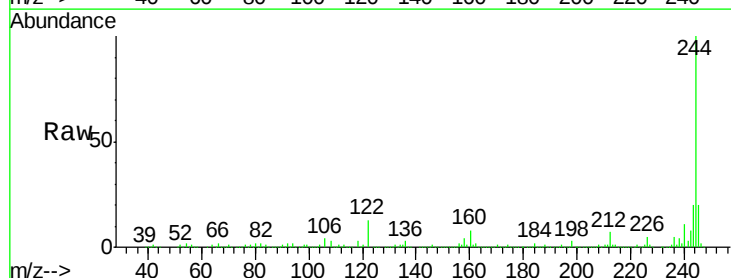
RT: 12.93 min Scan# 931

Delta R.T. -0.00 min

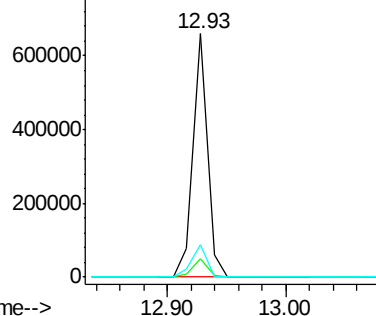
Lab File: BF085755.D

Acq: 25 Mar 2016 11:20

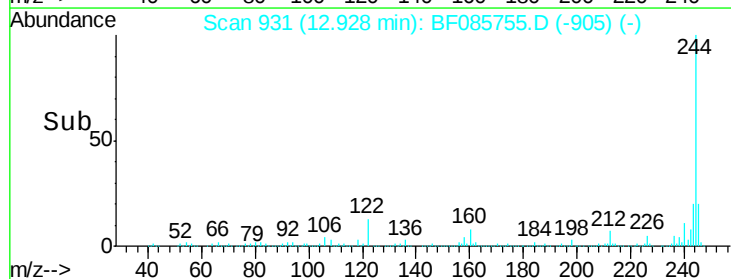
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 550273 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.3   | 6.1   | 9.1    |
| 122       | 13.4  | 10.2  | 15.4   |

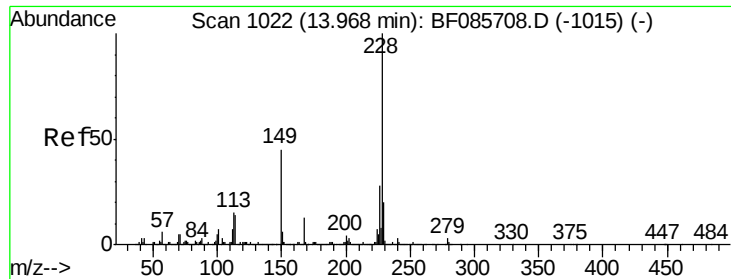


Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



Time-->





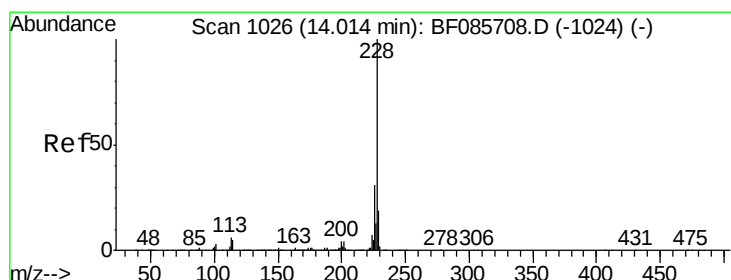
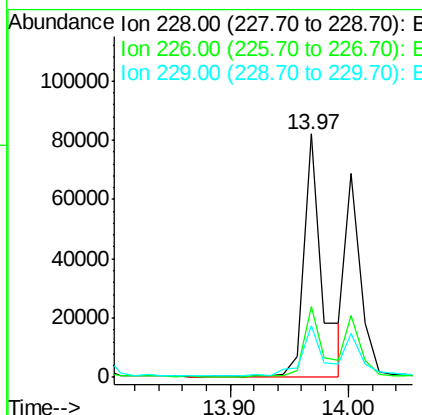
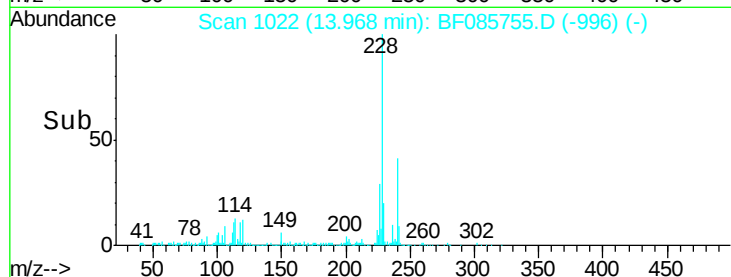
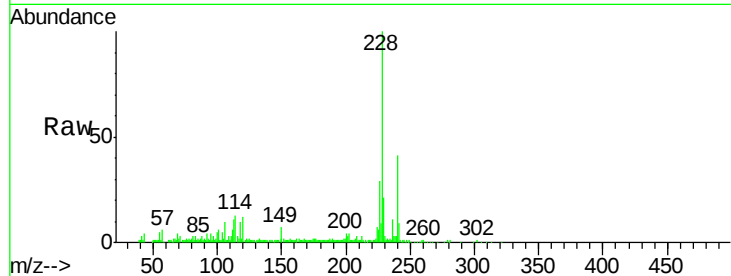
#80  
Benzo(a)anthracene  
Concen: 6.73 ng  
RT: 13.97 min Scan# 1022  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

Instrument :  
BNA\_F  
ClientSampleId :  
WASTE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 22.1  | 33.1  |
| 229     | 21.0  | 16.2  | 24.4  |

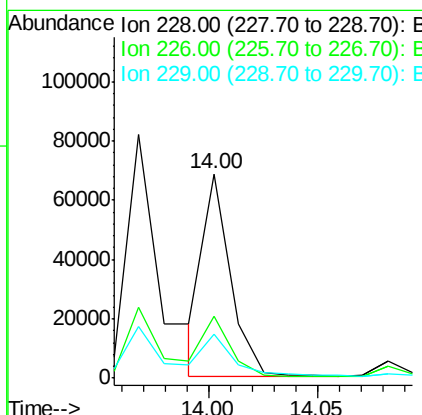
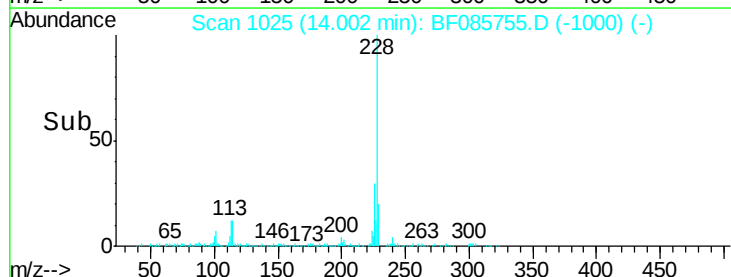
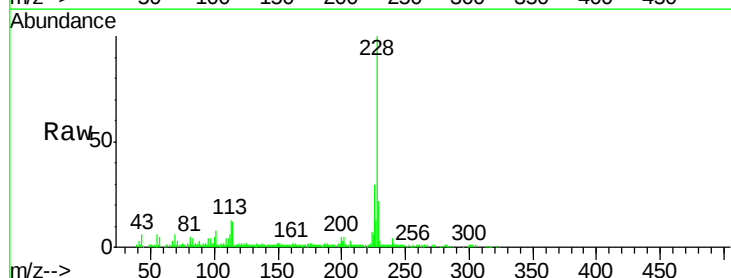
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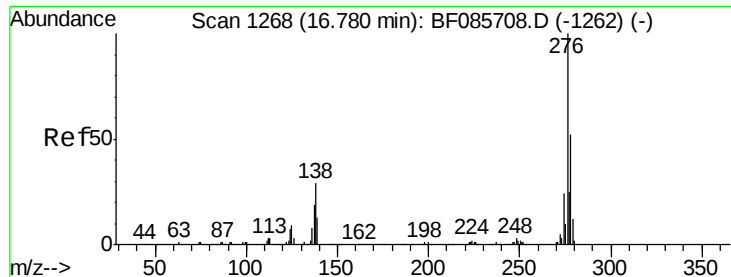
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#82  
Chrysene  
Concen: 4.56 ng  
RT: 14.00 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.0  | 37.6  |
| 229     | 21.7  | 15.7  | 23.5  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.22 ng

RT: 16.78 min Scan# 1268

Delta R.T. -0.00 min

Lab File: BF085755.D

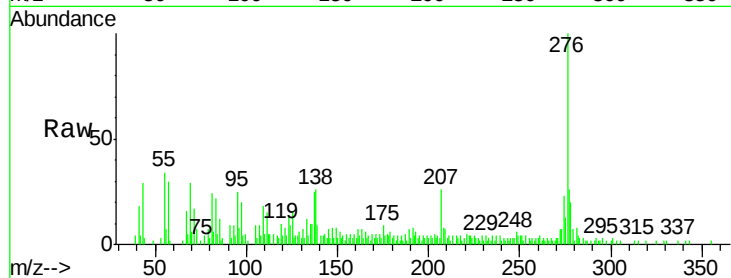
Acq: 25 Mar 2016 11:20

Instrument :

BNA\_F

ClientSampled :

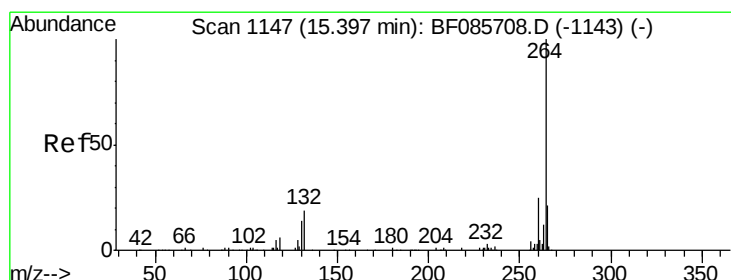
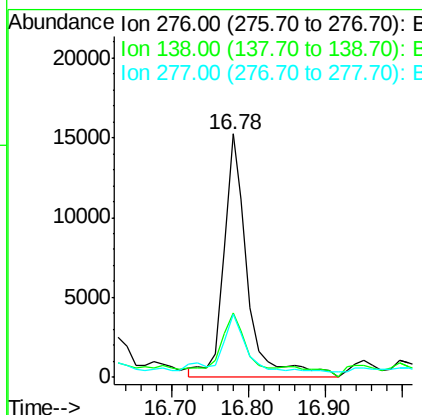
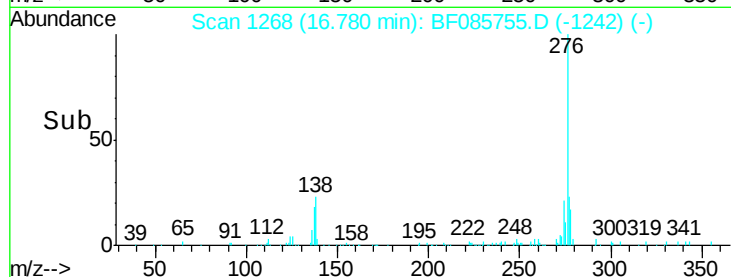
WASTE



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 32970 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 20.1  | 24.2  | 36.4# |
| 277       | 25.0  | 20.0  | 30.0  |

Manual Integrations  
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#86

Perylene-d12

Concen: 20.00 ng

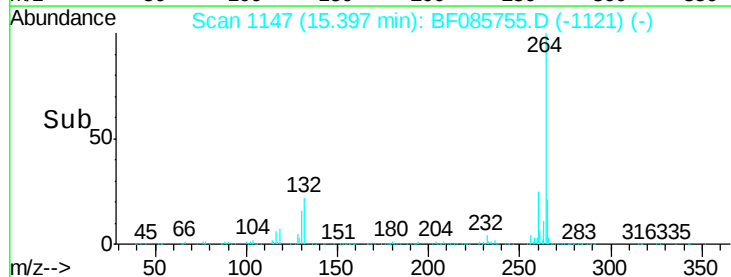
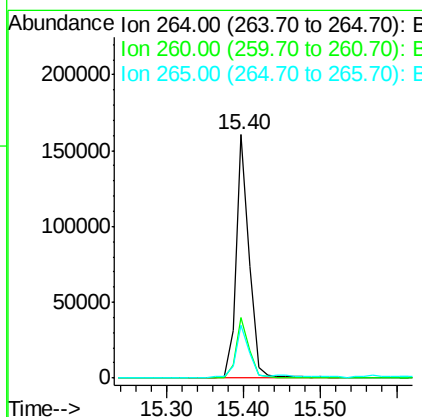
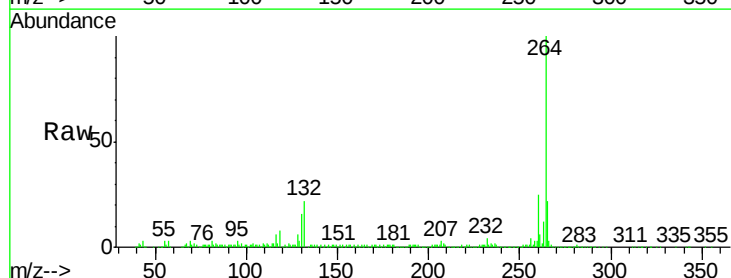
RT: 15.40 min Scan# 1147

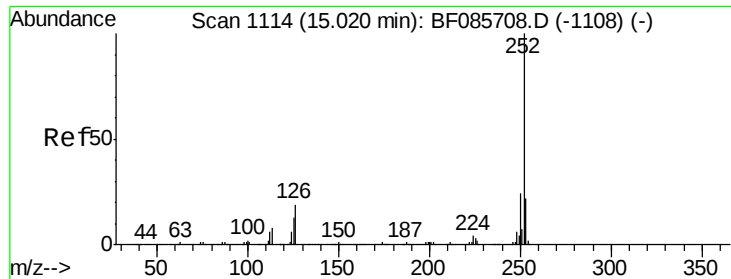
Delta R.T. -0.00 min

Lab File: BF085755.D

Acq: 25 Mar 2016 11:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 195284 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.8  | 19.4  | 29.2   |
| 265       | 21.7  | 17.2  | 25.8   |





#87

Benzo(b)fluoranthene

Concen: 6.46 ng m

RT: 15.00 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BF085755.D

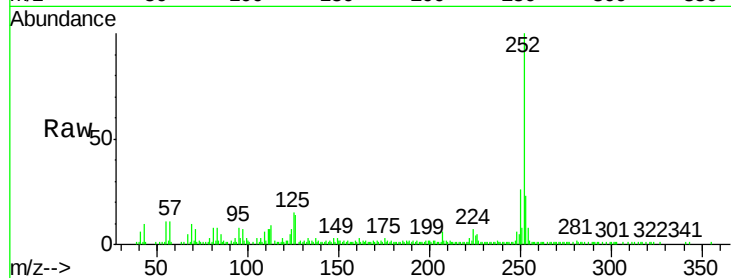
Acq: 25 Mar 2016 11:20

Instrument :

BNA\_F

ClientSampleId :

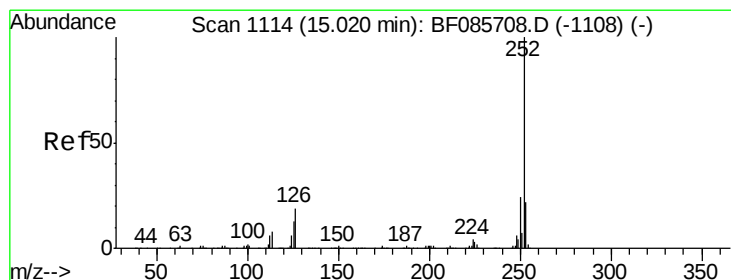
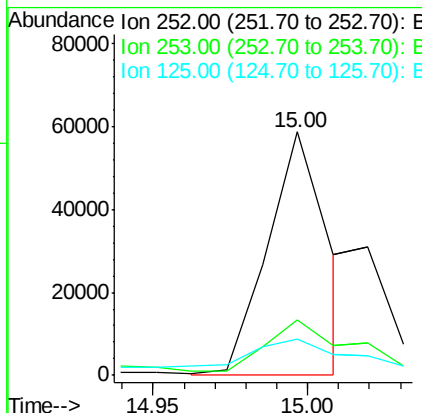
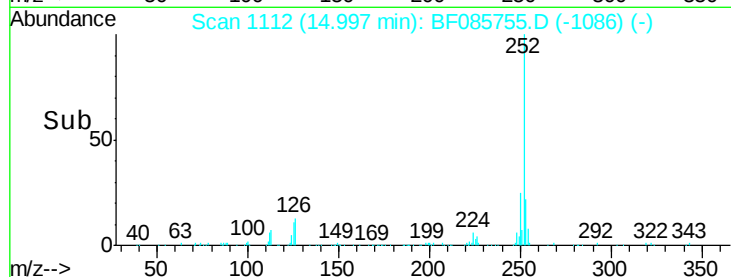
WASTE



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 79434 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.8  | 17.6  | 26.4  |
| 125       | 14.6  | 10.3  | 15.5  |

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#88

Benzo(k)fluoranthene

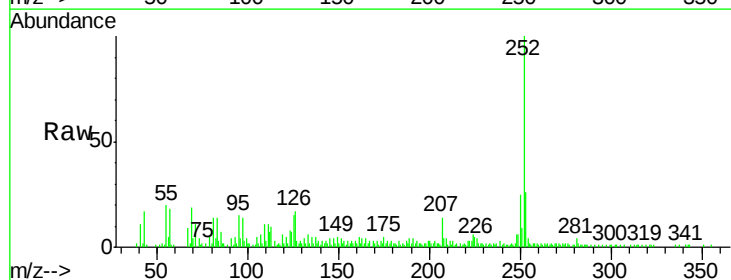
Concen: 2.59 ng m

RT: 15.02 min Scan# 1114

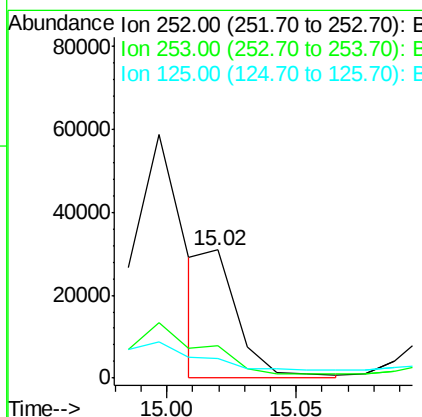
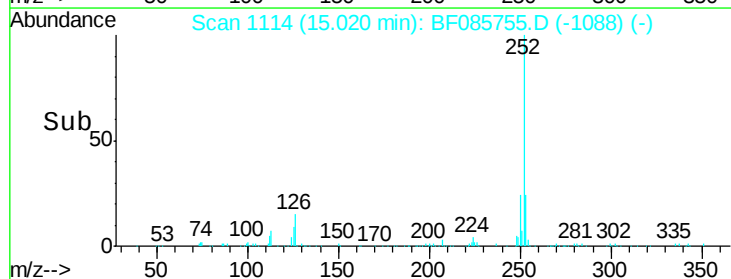
Delta R.T. -0.00 min

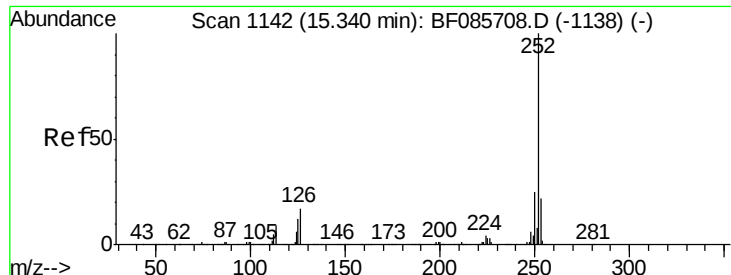
Lab File: BF085755.D

Acq: 25 Mar 2016 11:20



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 28751 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.5  | 17.8  | 26.6  |
| 125       | 15.4  | 7.7   | 11.5# |





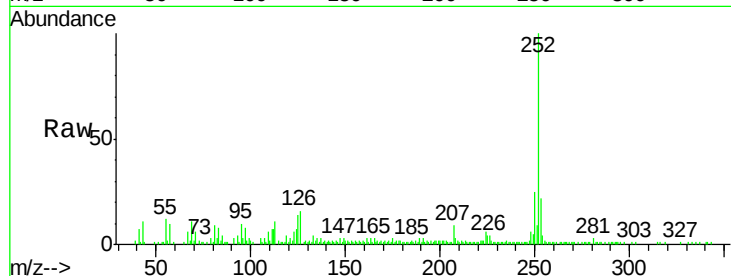
#89  
Benzo(a)pyrene  
Concen: 5.01 ng  
RT: 15.34 min Scan# 1142  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

Instrument :  
BNA\_F  
ClientSampleId :  
WASTE

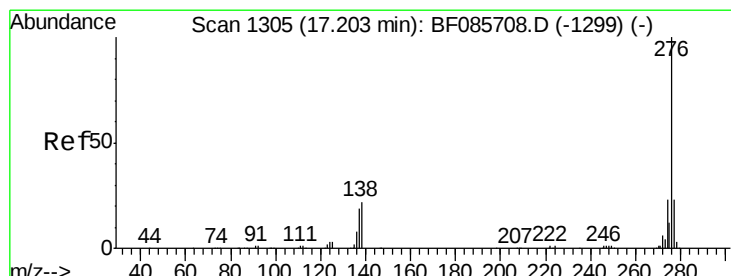
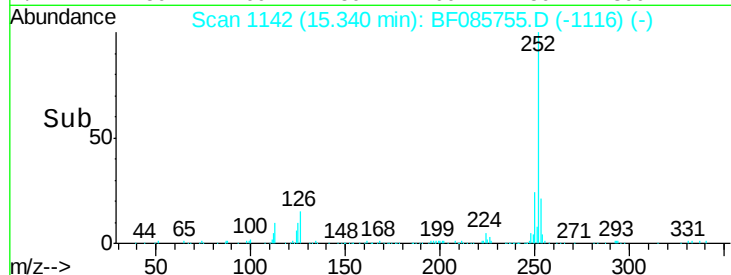
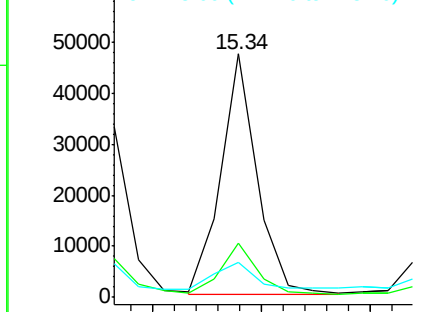
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.4  | 26.0  |
| 125     | 14.4  | 10.3  | 15.5  |

Manual Integrations  
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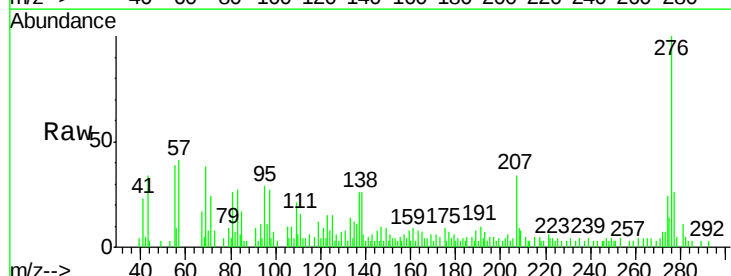


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#91  
Benzo(g,h,i)perylene  
Concen: 2.73 ng  
RT: 17.20 min Scan# 1305  
Delta R.T. -0.00 min  
Lab File: BF085755.D  
Acq: 25 Mar 2016 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.0  | 18.8  | 28.2  |
| 138     | 25.6  | 22.6  | 34.0  |



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

