

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081017\  
 Data File : BF097586.D  
 Acq On : 11 Aug 2017 5:04  
 Operator : SJ/JU  
 Sample : I4677-10 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-F10-ESW

Manual Integrations  
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Quant Time: Aug 11 08:05:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 07 16:02:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.39  | 152  | 105152   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.67  | 136  | 372923   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.42  | 164  | 156249   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 10.89 | 188  | 205410   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 13.52 | 240  | 189931   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 14.86 | 264  | 174852   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 4.99  | 112  | 145649   | 20.88  | ng    | -0.01    |
| 7) Phenol-d6                | 6.07  | 99   | 202923   | 25.48  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 6.97  | 82   | 111589   | 17.55  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.21 | 330  | 21132    | 17.12  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.75  | 172  | 149490   | 16.24  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.47 | 244  | 81783    | 8.78   | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.16  | 163  | 25033    | 2.110  | ng    | 99       |
| 70) Phenanthrene            | 10.92 | 178  | 117769   | 10.700 | ng    | 98       |
| 71) Anthracene              | 10.97 | 178  | 35160    | 3.119  | ng    | 96       |
| 74) Fluoranthene            | 12.10 | 202  | 193750   | 17.970 | ng    | 98       |
| 77) Pyrene                  | 12.32 | 202  | 183387   | 11.794 | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.51 | 228  | 110321   | 8.977  | ng    | 99       |
| 82) Chrysene                | 13.54 | 228  | 102854   | 8.571  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.05 | 276  | 44937    | 4.367  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.52 | 252  | 157326m  | 14.968 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.53 | 252  | 52986m   | 5.290  | ng    |          |
| 89) Benzo(a)pyrene          | 14.81 | 252  | 94438    | 9.817  | ng    | # 95     |
| 91) Benzo(a,h,i)perylene    | 16.40 | 276  | 40558    | 4.903  | ng    | # 91     |

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

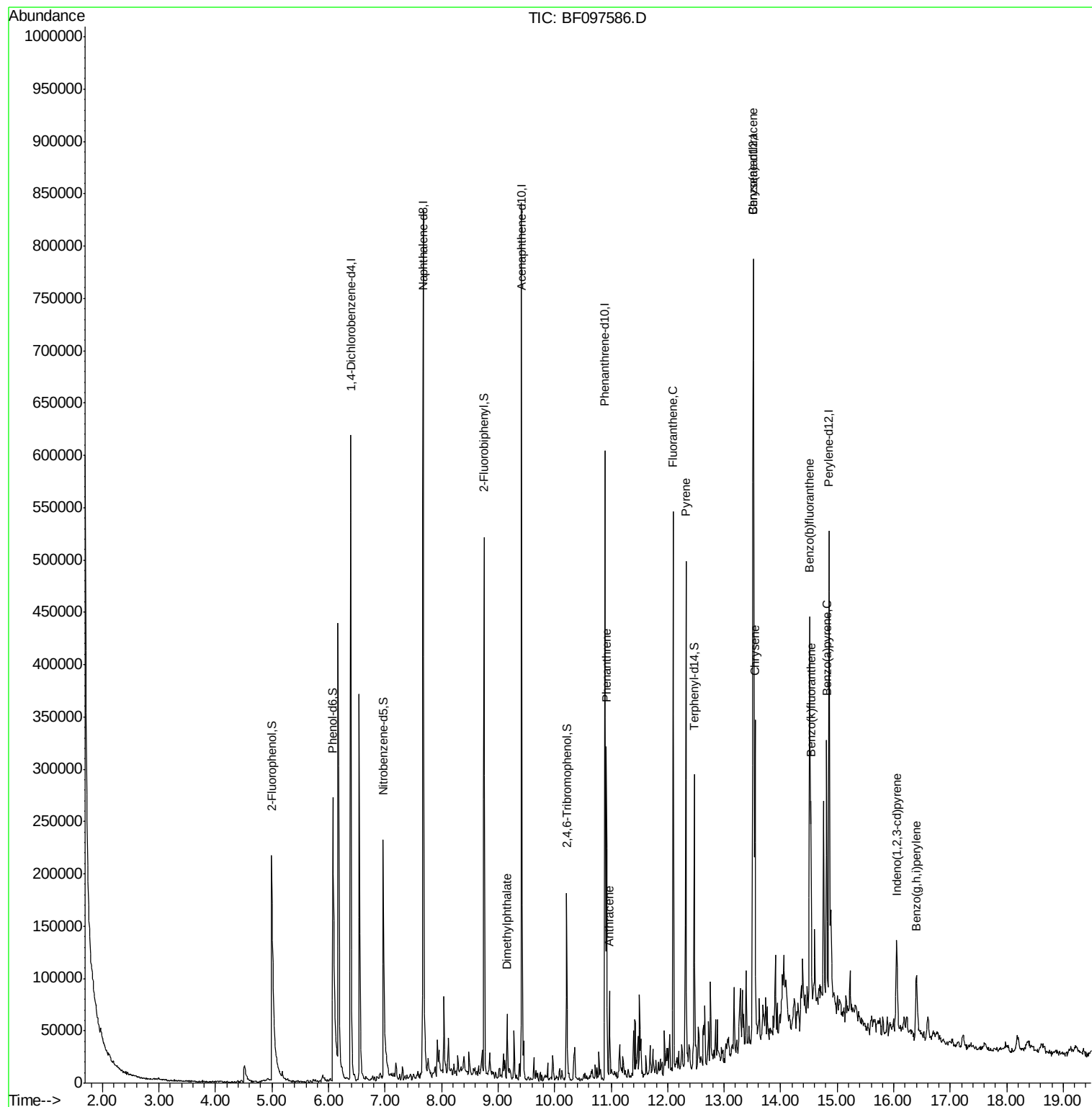
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081017\  
Data File : BF097586.D  
Acq On : 11 Aug 2017 5:04  
Operator : SJ/JU  
Sample : I4677-10 5X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

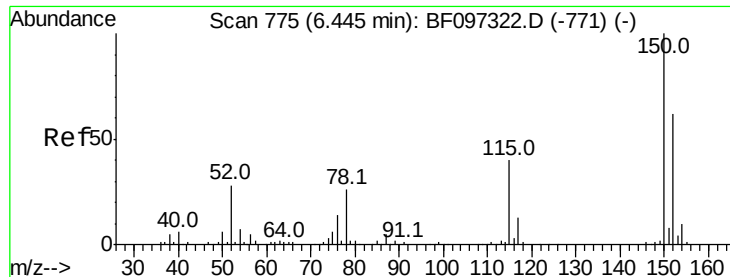
Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

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Quant Time: Aug 11 08:05:33 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 07 16:02:51 2017  
Response via : Initial Calibration





#1

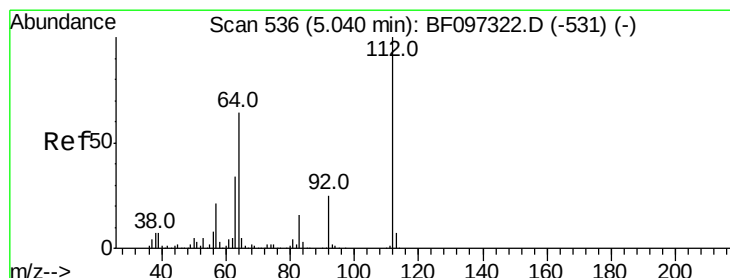
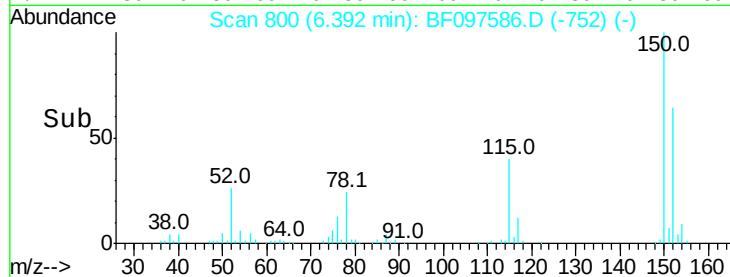
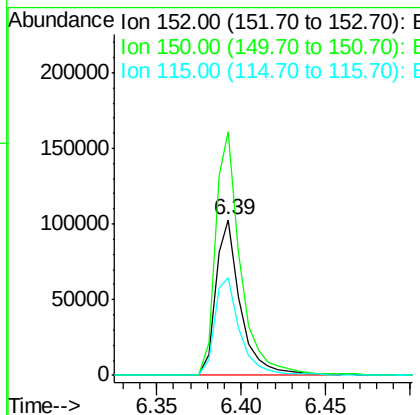
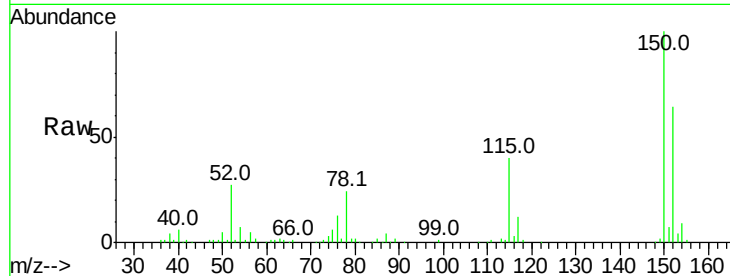
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.39 min Scan# 800  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 126.2 | 189.2 |
| 115     | 63.1  | 52.2  | 78.2  |

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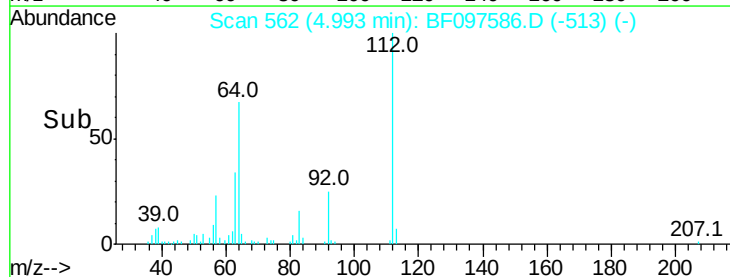
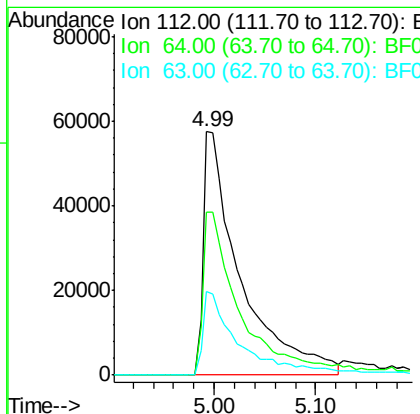
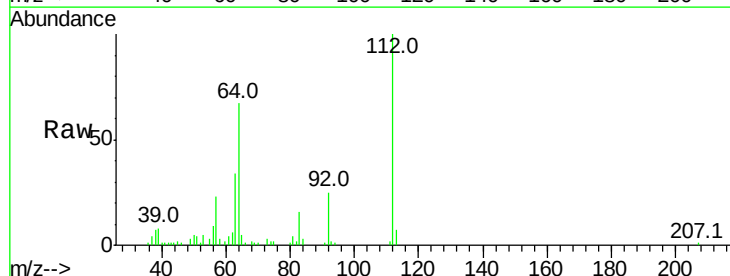
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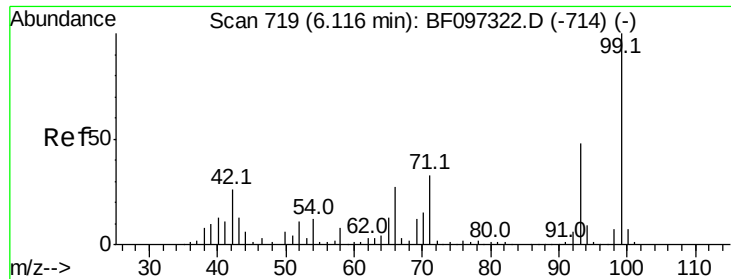


#5

2-Fluorophenol  
Concen: 20.881 ng  
RT: 4.99 min Scan# 562  
Delta R.T. -0.01 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.2  | 46.0  | 69.0  |
| 63      | 34.3  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 25.483 ng

RT: 6.07 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

Instrument :

BNA\_F

ClientSampleId :

E2-F10-ESW

Tot Ion: 99 Resp: 202923

Ion Ratio Lower Upper

99 100

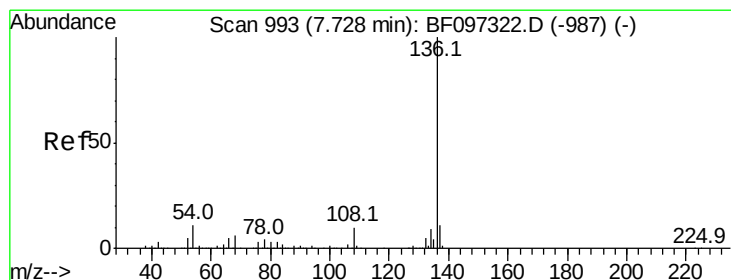
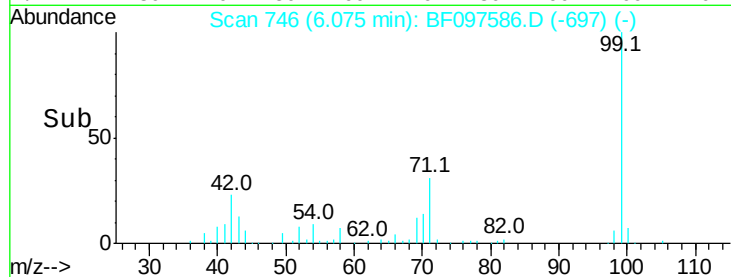
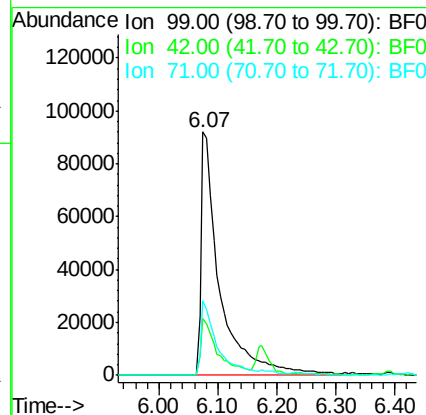
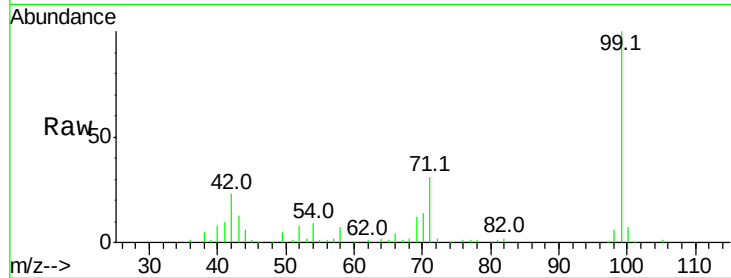
42 23.2 13.5 20.3#

71 30.6 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.67 min Scan# 1018

Delta R.T. -0.02 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

Tgt Ion: 136 Resp: 372923

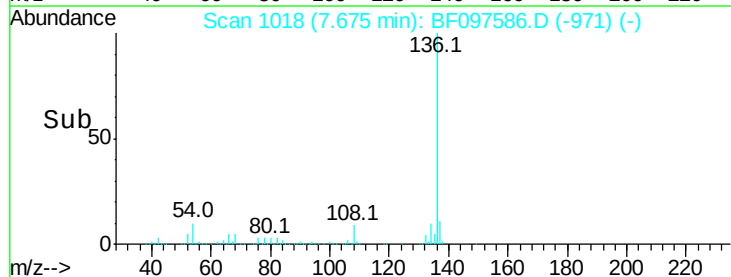
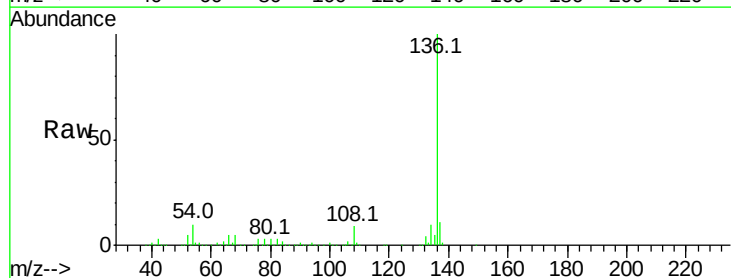
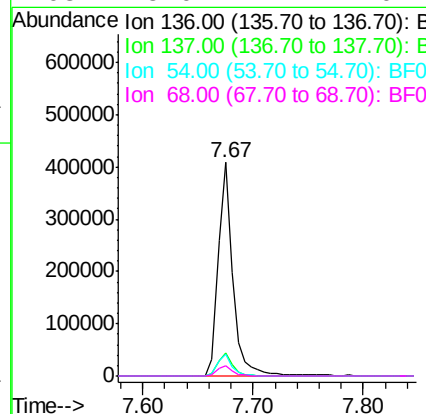
Ion Ratio Lower Upper

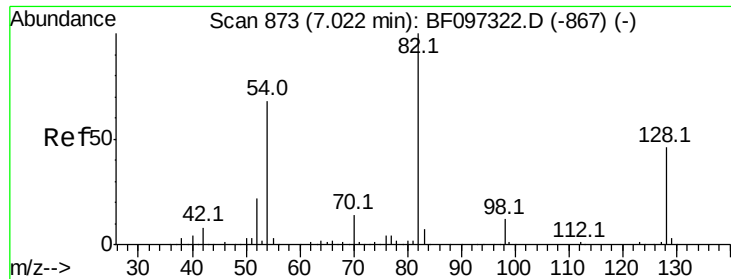
136 100

137 10.8 8.5 12.7

54 10.2 4.9 7.3#

68 5.0 4.1 6.1





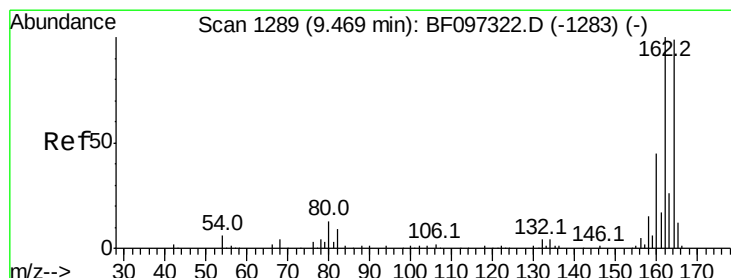
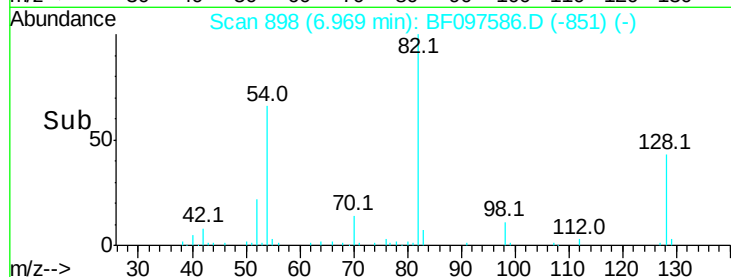
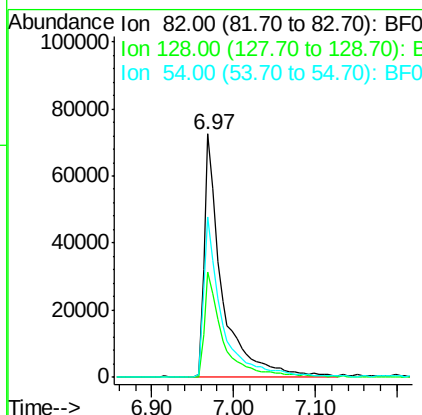
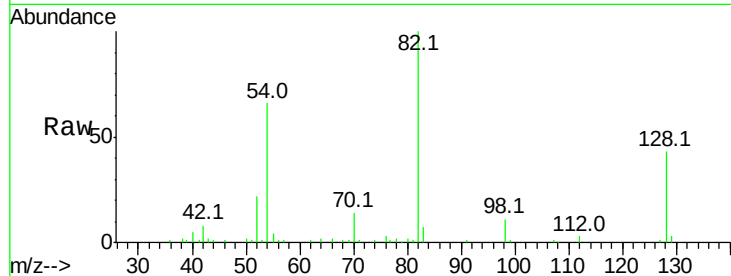
#23  
Nitrobenzene-d5  
Concen: 17.554 ng  
RT: 6.97 min Scan# 898  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.3  | 34.0 | 51.0  |       |
| 54      | 65.9  | 42.2 | 63.2  |       |

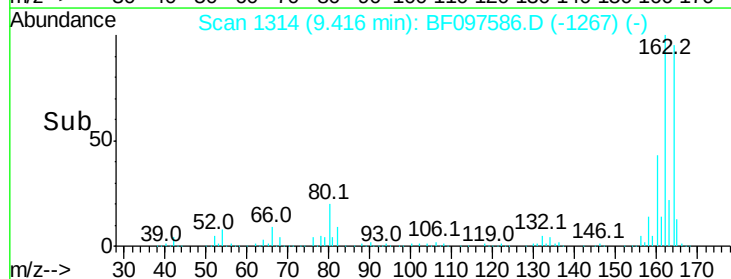
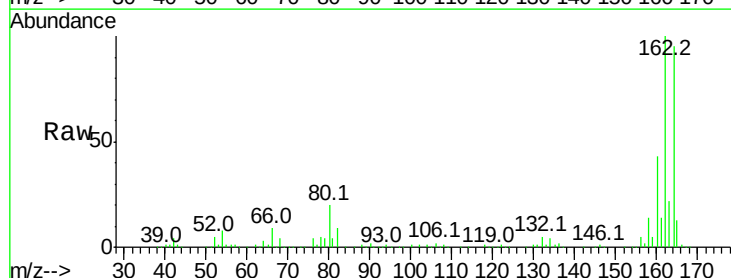
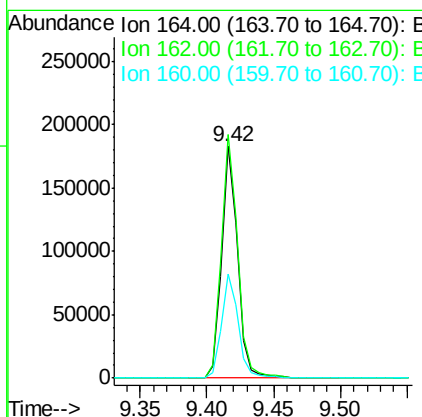
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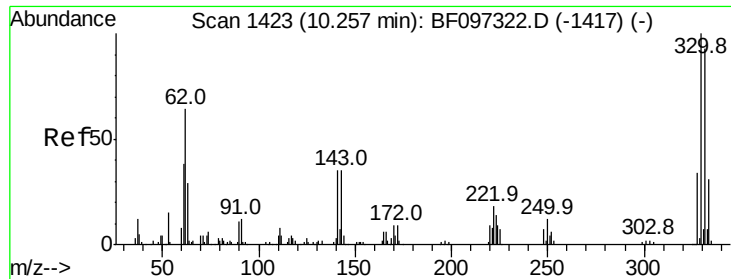
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.42 min Scan# 1314  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 105.2 | 82.6 | 123.8 |       |
| 160     | 45.1  | 36.2 | 54.2  |       |





#41

2,4,6-Tribromophenol

Concen: 17.118 ng

RT: 10.21 min Scan# 1449

Delta R.T. -0.02 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

Instrument :

BNA\_F

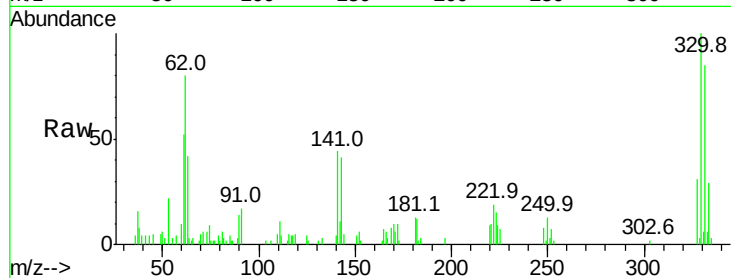
ClientSampleId :

E2-F10-ESW

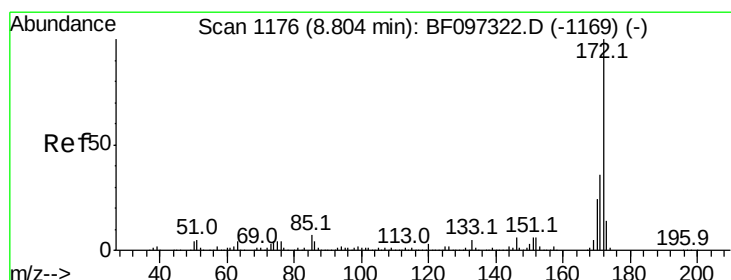
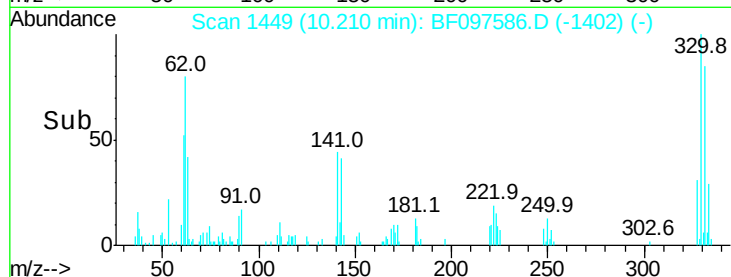
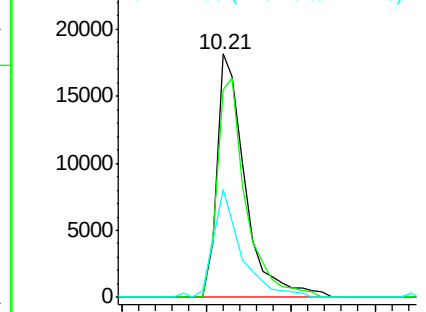
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 21132 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 92.3  | 76.6  | 115.0 |
| 141       | 44.4  | 31.4  | 47.2  |

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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: 16.237 ng

RT: 8.75 min Scan# 1201

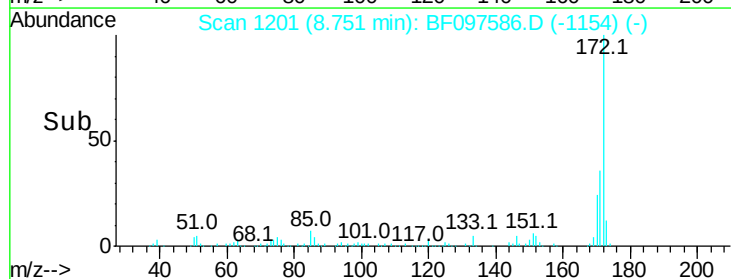
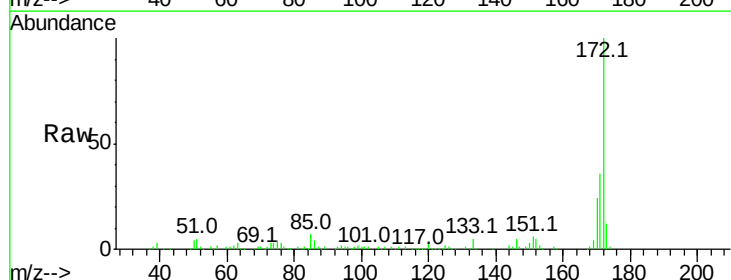
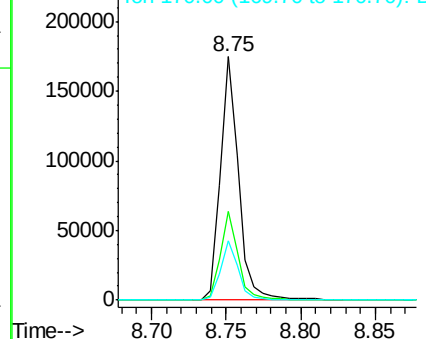
Delta R.T. -0.02 min

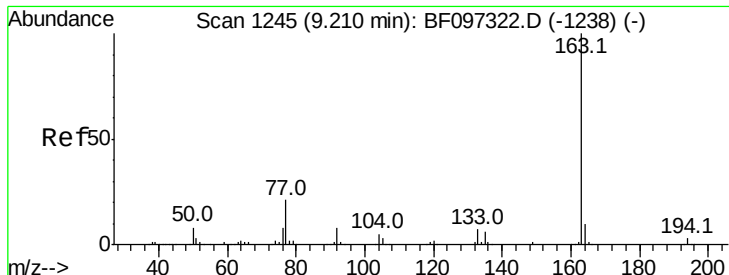
Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 149490 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.2  | 29.6  | 44.4   |
| 170       | 24.1  | 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





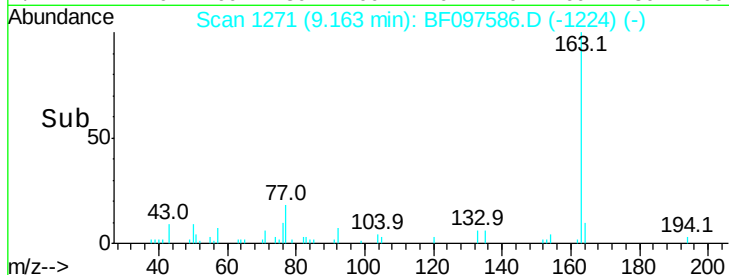
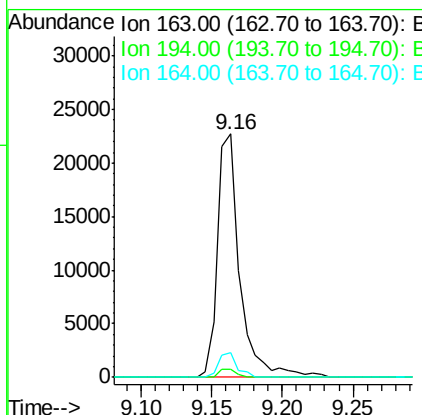
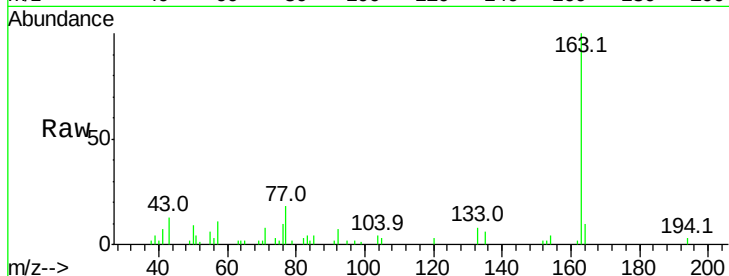
#49  
Dimethylphthalate  
Concen: 2.110 ng  
RT: 9.16 min Scan# 1271  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 25033 |       |       |
| 194     | 3.2   |       | 2.6   | 4.0   |
| 164     | 10.0  |       | 8.4   | 12.6  |

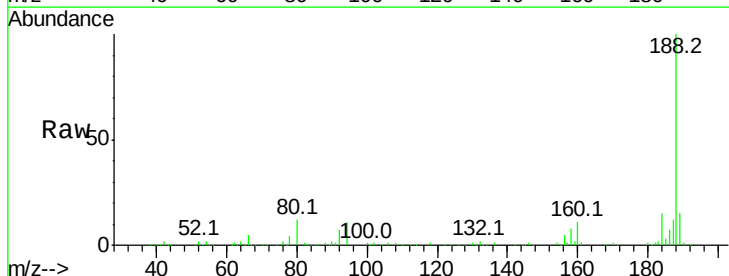
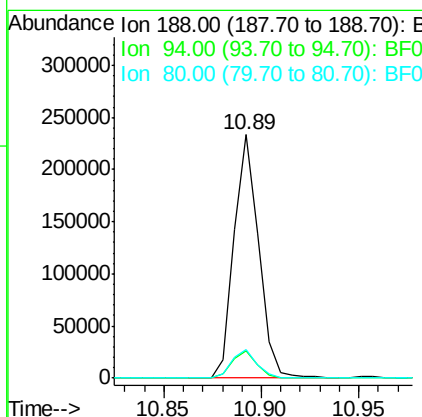
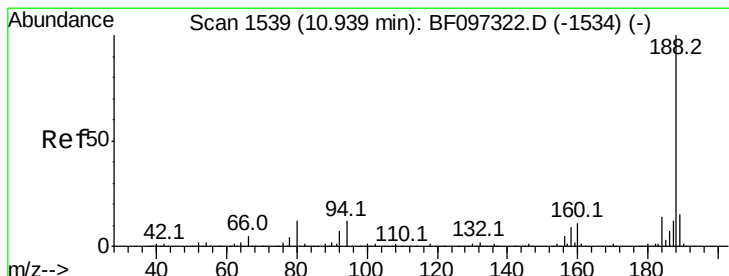
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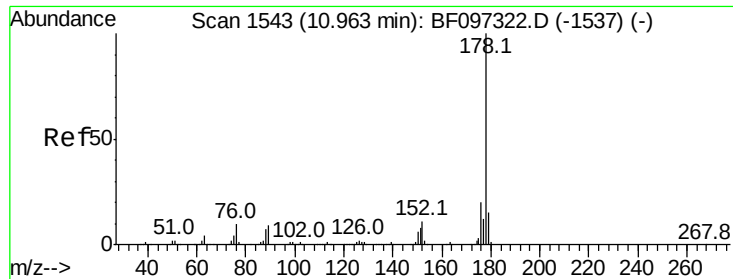
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.89 min Scan# 1565  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 205410 |       |       |
| 94      | 11.1  |        | 9.4   | 14.2  |
| 80      | 11.8  |        | 10.2  | 15.2  |





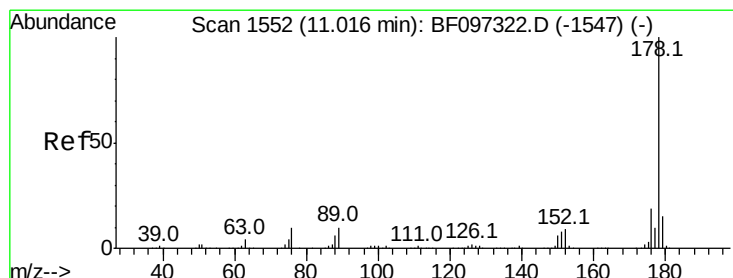
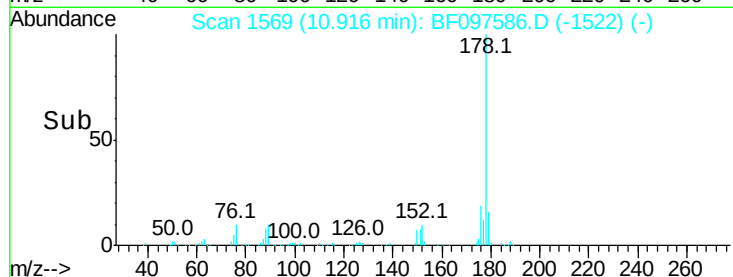
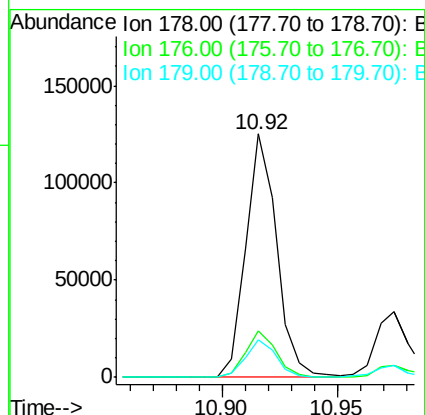
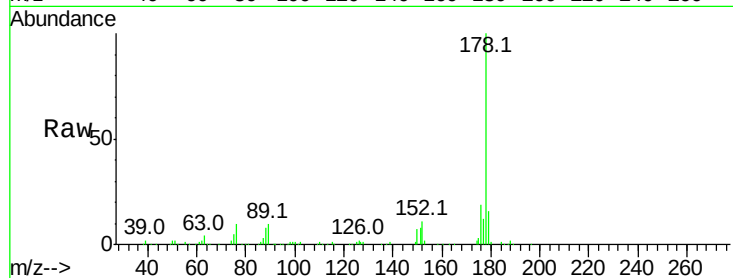
#70  
Phenanthrene  
Concen: 10.700 ng  
RT: 10.92 min Scan# 1569  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 16.2  | 24.4  |
| 179     | 15.6  | 12.6  | 19.0  |

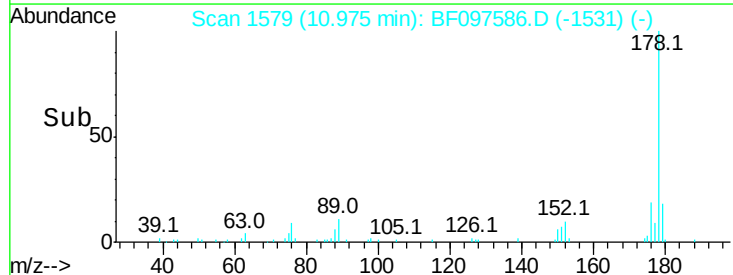
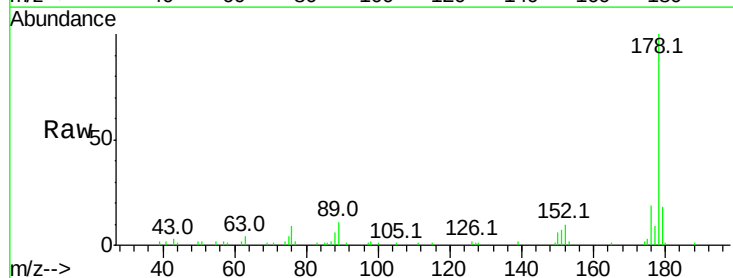
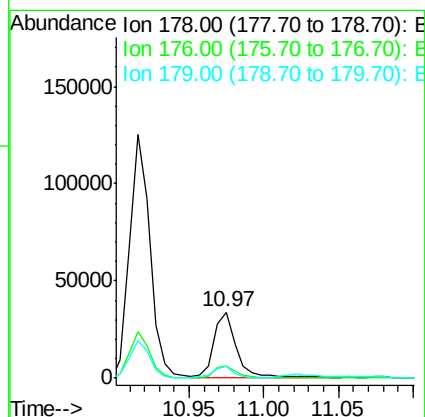
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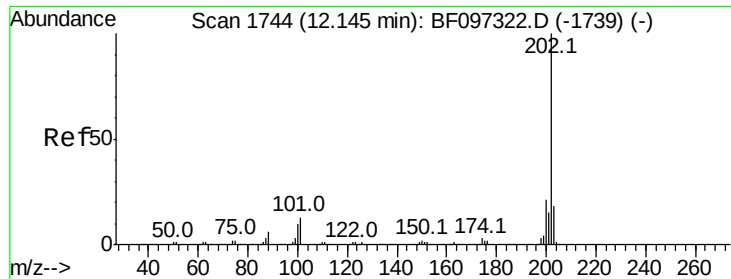


#71  
Anthracene  
Concen: 3.119 ng  
RT: 10.97 min Scan# 1579  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.8  | 23.8  |
| 179     | 18.1  | 12.7  | 19.1  |







#74

Fluoranthene

Concen: 17.970 ng

RT: 12.10 min Scan# 1770

Delta R.T. -0.02 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

Instrument :

BNA\_F

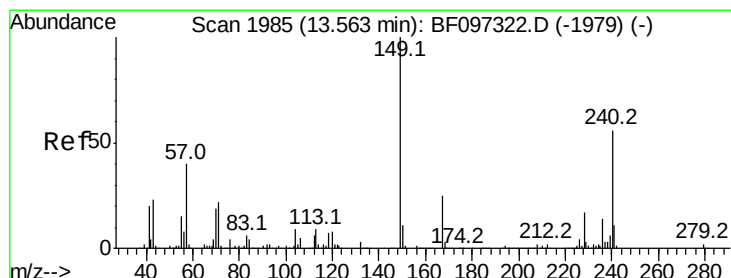
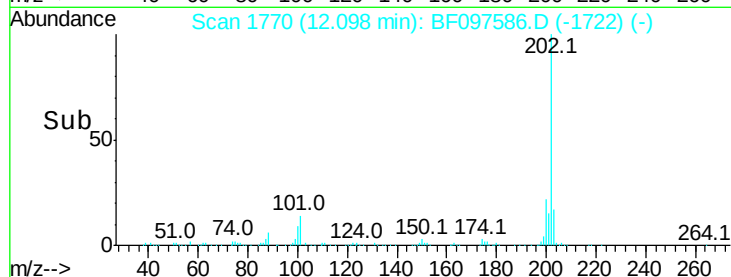
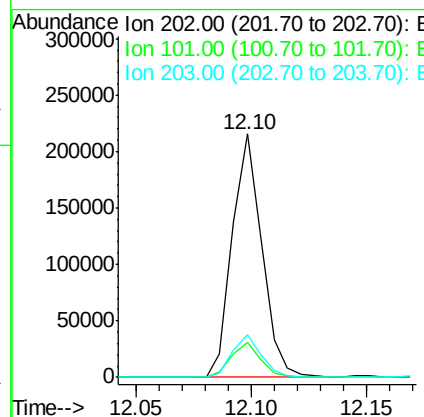
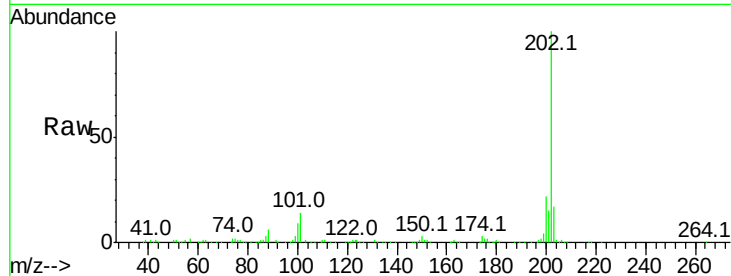
ClientSampleId :

E2-F10-ESW

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 101     | 14.3 | 0.0   | 33.2 |       |       |
| 203     | 17.3 | 0.0   | 38.1 |       |       |

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#75

Chrysene-d12

Concen: 20.000 ng

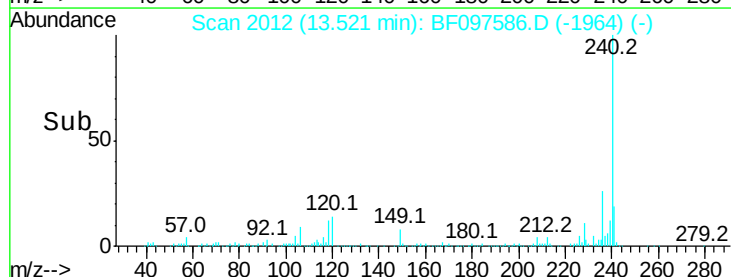
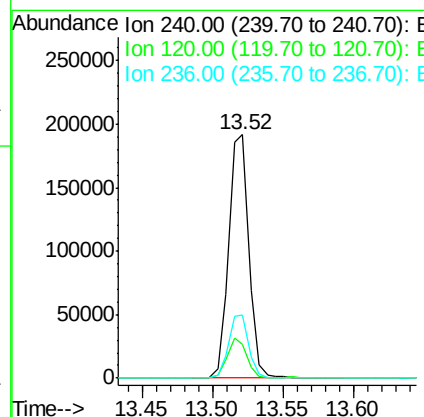
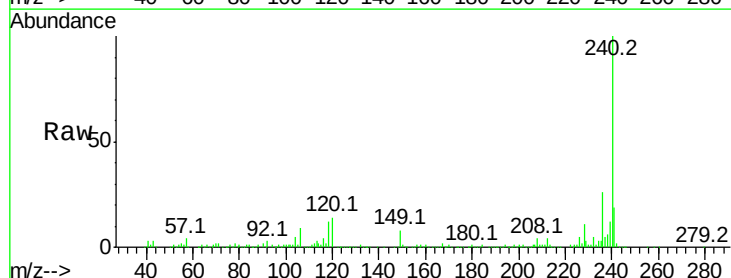
RT: 13.52 min Scan# 2012

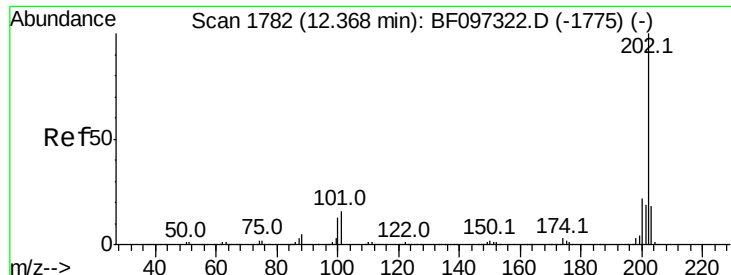
Delta R.T. -0.02 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 240     | 100  |       |      |       |       |
| 120     | 13.7 | 5.8   | 8.8# |       |       |
| 236     | 25.7 | 20.5  | 30.7 |       |       |





#77

Pvrene

Concen: 11.794 ng

RT: 12.32 min Scan# 1808

Delta R.T. -0.02 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

Instrument :

BNA\_F

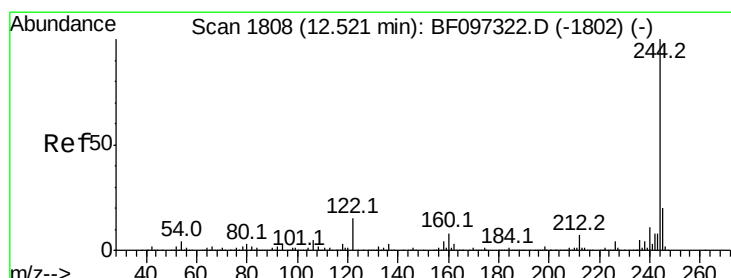
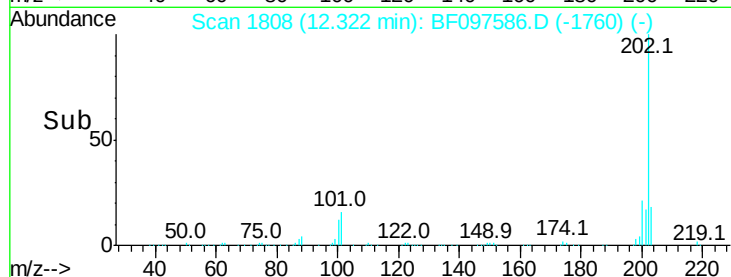
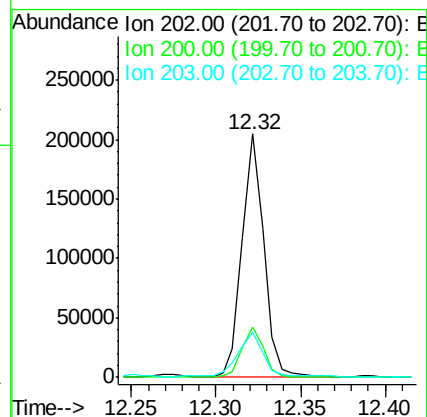
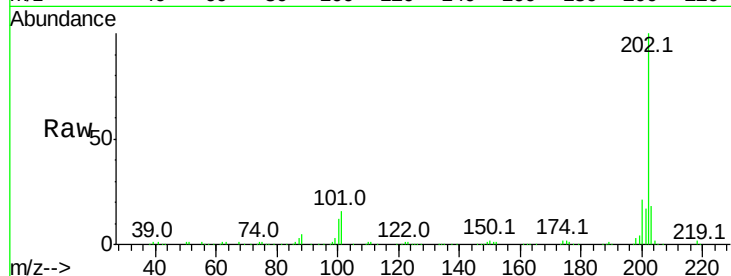
ClientSampled :

E2-F10-ESW

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 183387 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.8 | 17.6  | 26.4   |
| 203       | 18.5 | 14.4  | 21.6   |

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#78

Terphenyl-d14

Concen: 8.779 ng

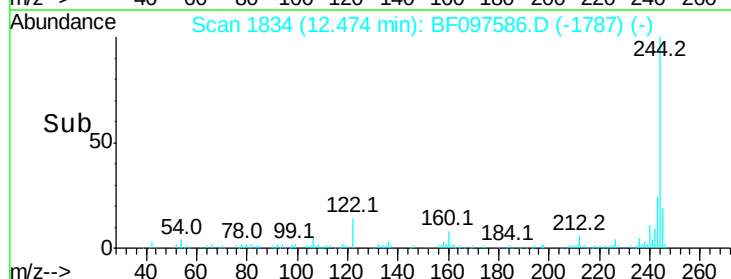
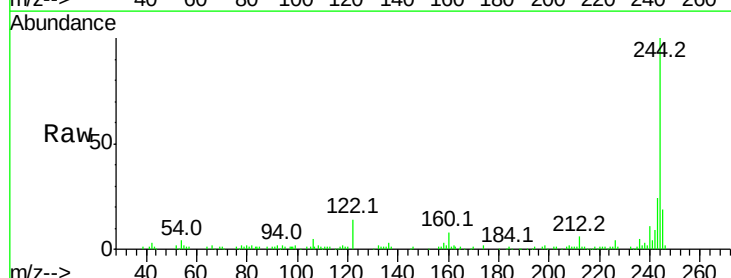
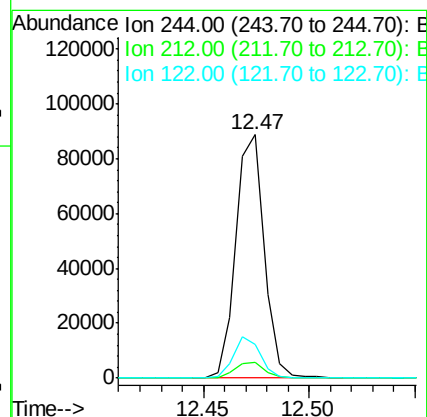
RT: 12.47 min Scan# 1834

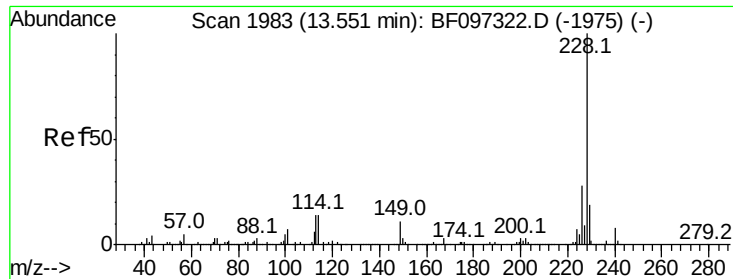
Delta R.T. -0.02 min

Lab File: BF097586.D

Acq: 11 Aug 2017 5:04

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 244  | Resp: | 81783 |
| Ion Ratio |      | Lower | Upper |
| 244       | 100  |       |       |
| 212       | 6.3  | 6.0   | 9.0   |
| 122       | 13.6 | 10.3  | 15.5  |





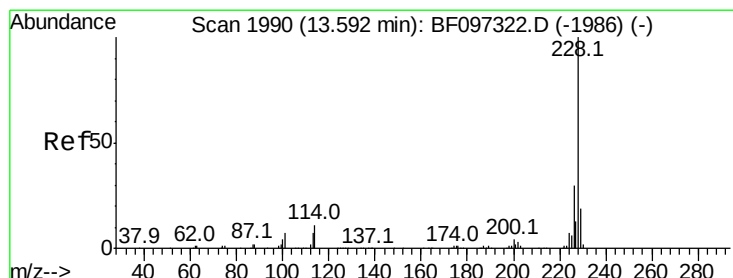
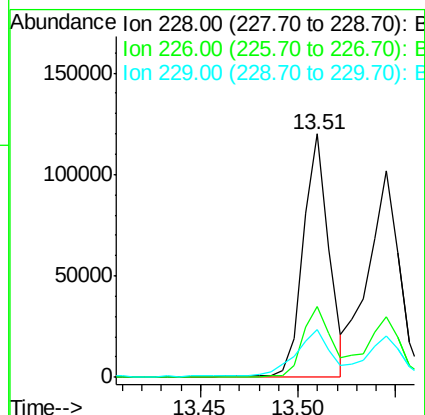
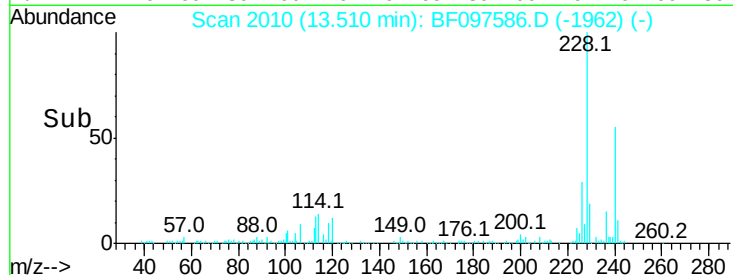
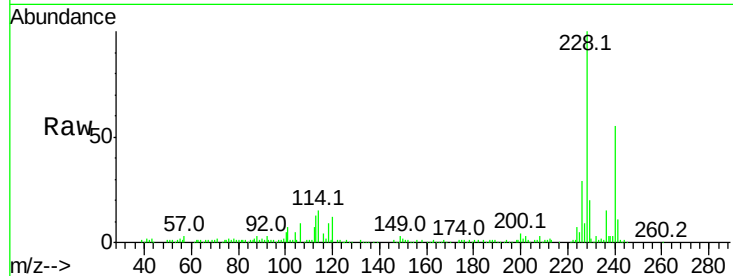
#80  
Benzo(a)anthracene  
Concen: 8.977 ng  
RT: 13.51 min Scan# 2010  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

|             |       |        |
|-------------|-------|--------|
| Tot Ion:228 | Resp: | 110321 |
| Ion Ratio   | Lower | Upper  |
| 228 100     |       |        |
| 226 29.0    | 22.6  | 33.8   |
| 229 19.8    | 16.3  | 24.5   |

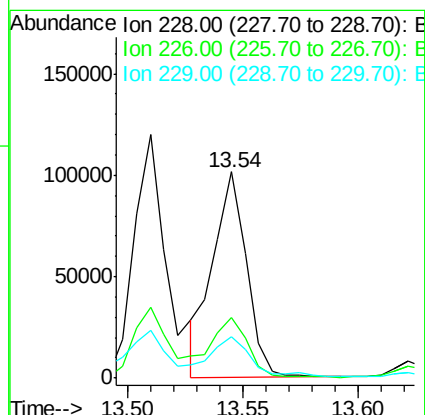
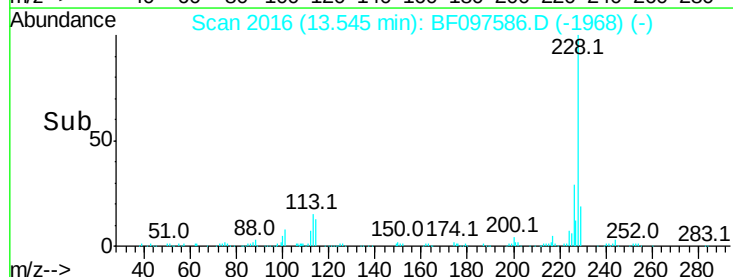
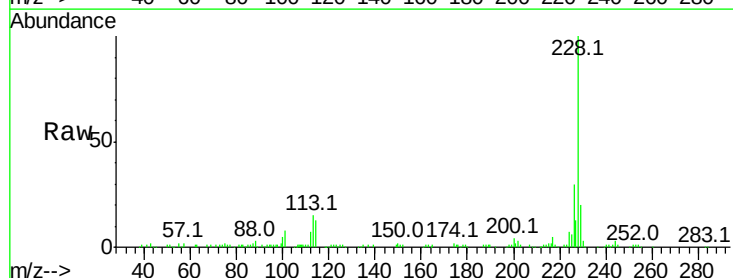
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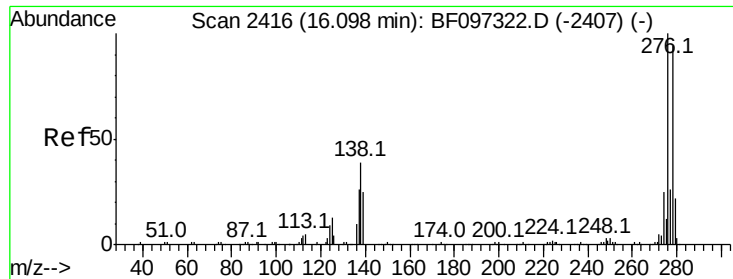
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#82  
Chrysene  
Concen: 8.571 ng  
RT: 13.54 min Scan# 2016  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:228 | Resp: | 102854 |
| Ion Ratio   | Lower | Upper  |
| 228 100     |       |        |
| 226 29.5    | 24.9  | 37.3   |
| 229 20.2    | 15.8  | 23.6   |





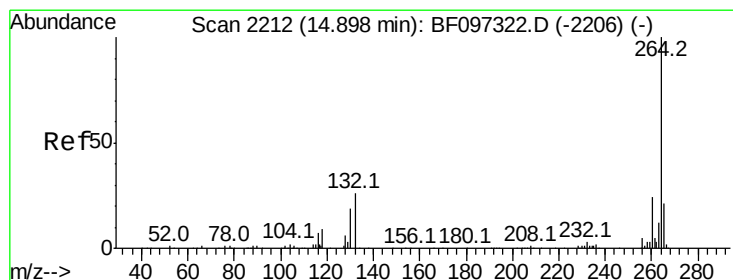
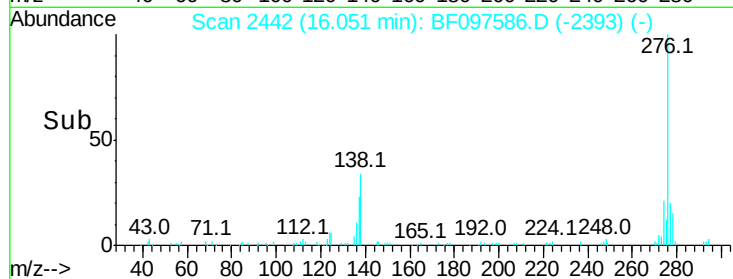
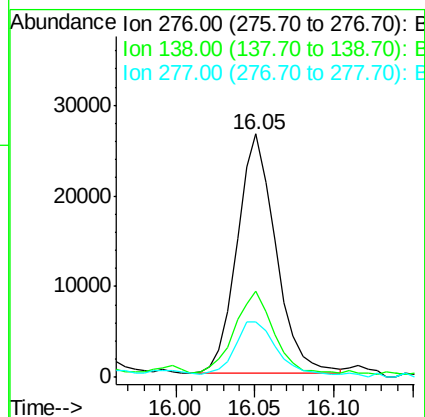
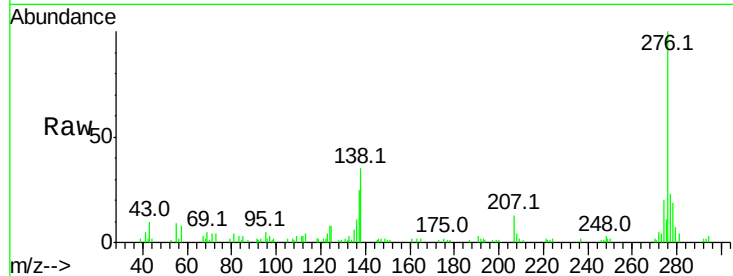
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.367 ng  
RT: 16.05 min Scan# 2442  
Delta R.T. -0.01 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 44937 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 34.2  | 27.8  | 41.6  |
| 277       | 27.4  | 20.2  | 30.4  |

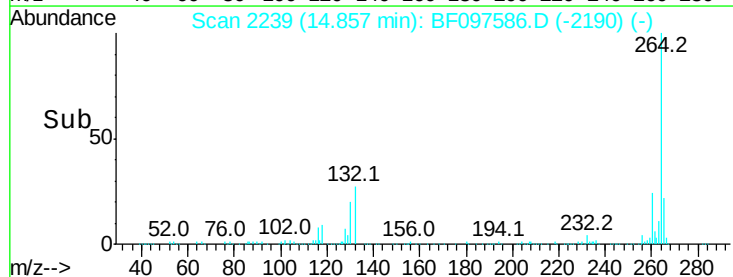
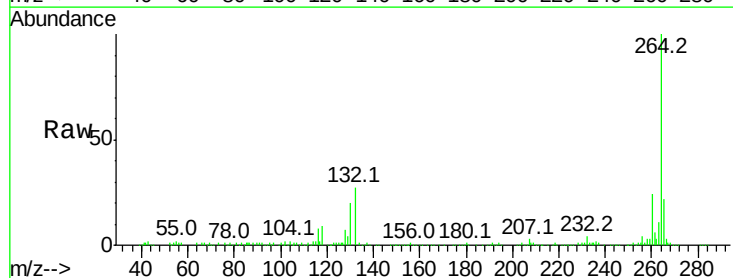
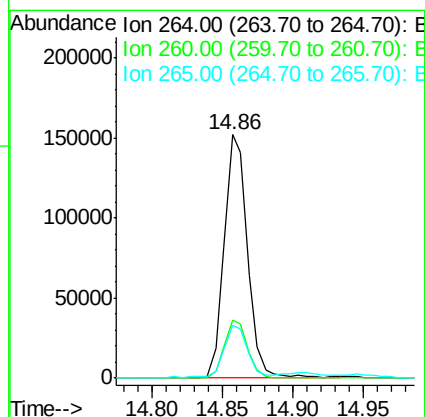
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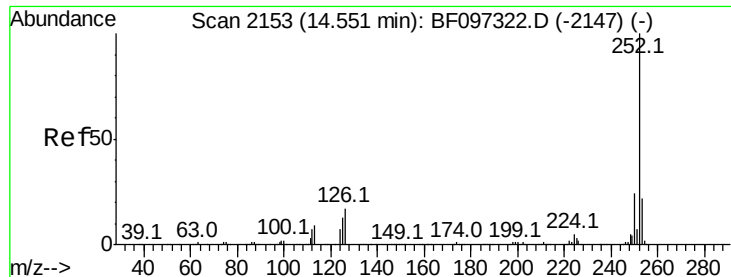
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 14.86 min Scan# 2239  
Delta R.T. -0.01 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 174852 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 19.5  | 29.3   |
| 265       | 21.7  | 17.2  | 25.8   |





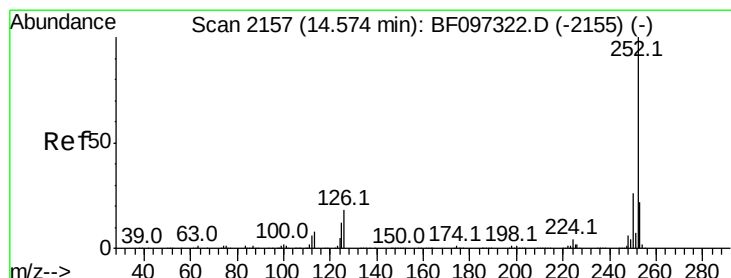
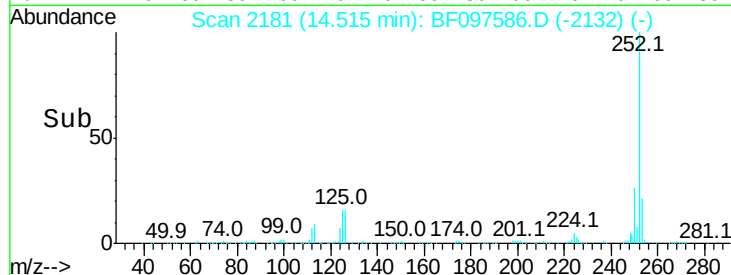
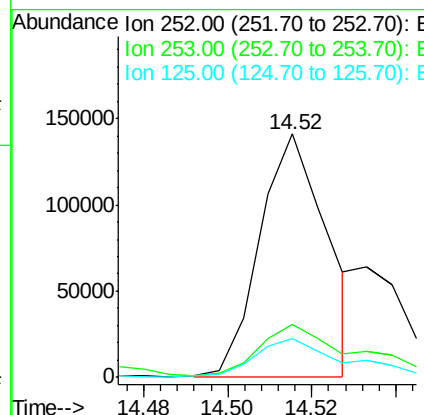
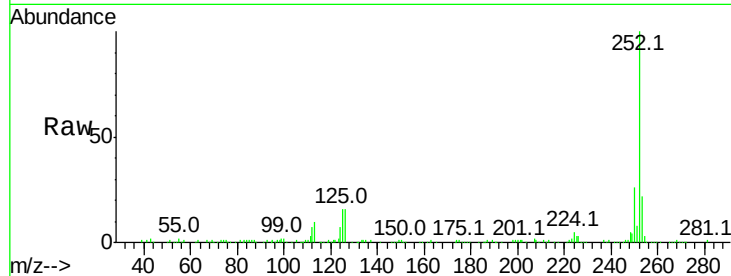
#87  
Benzo(b)fluoranthene  
Concen: 14.968 ng m  
RT: 14.52 min Scan# 2181  
Delta R.T. -0.01 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 18.1  | 27.1  |
| 125     | 15.9  | 9.8   | 14.8  |

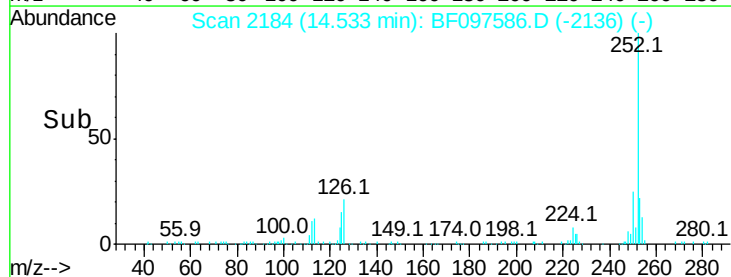
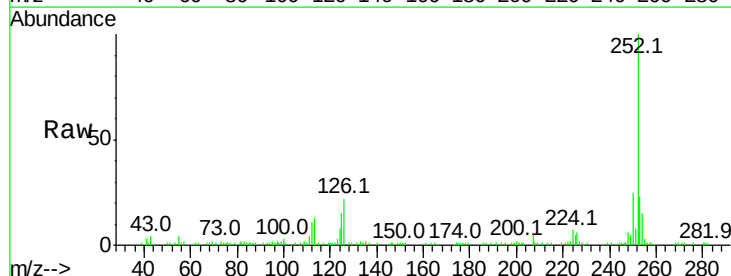
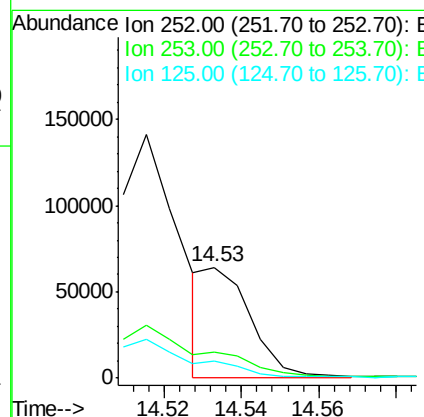
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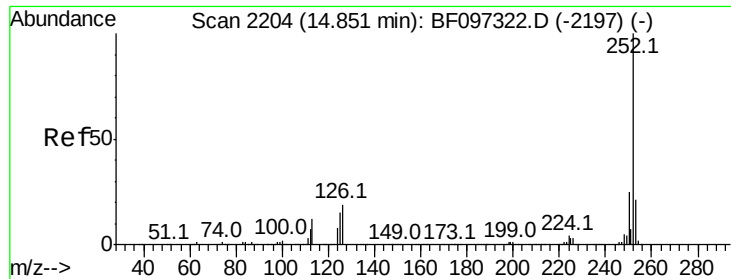
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#88  
Benzo(k)fluoranthene  
Concen: 5.290 ng m  
RT: 14.53 min Scan# 2184  
Delta R.T. -0.02 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.4  | 27.6  |
| 125     | 15.4  | 13.1  | 19.7  |





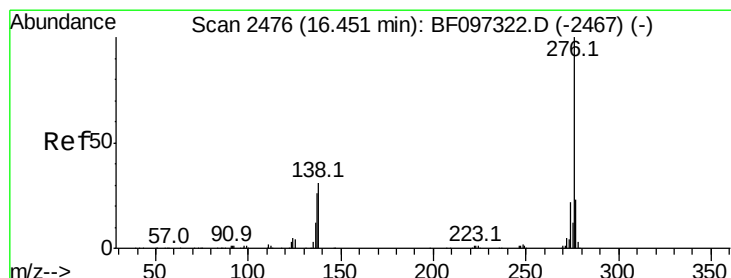
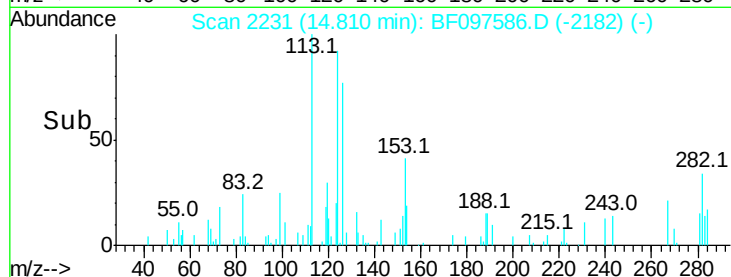
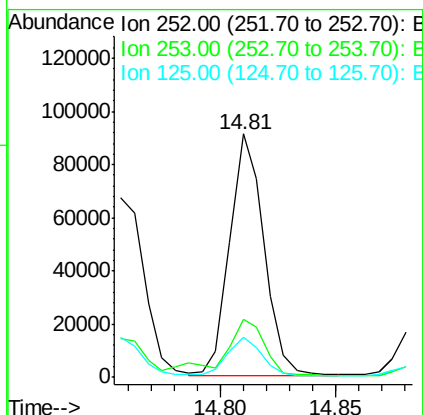
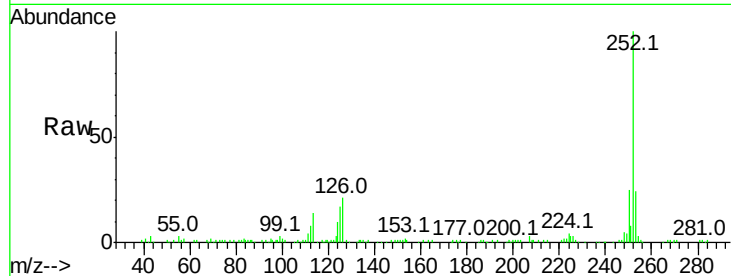
#89  
Benzo(a)pyrene  
Concen: 9.817 ng  
RT: 14.81 min Scan# 2231  
Delta R.T. -0.01 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
E2-F10-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.5  | 26.3  |
| 125     | 16.6  | 11.0  | 16.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 4.903 ng  
RT: 16.40 min Scan# 2502  
Delta R.T. -0.01 min  
Lab File: BF097586.D  
Acq: 11 Aug 2017 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.3  | 18.6  | 28.0  |
| 138     | 36.5  | 25.4  | 38.0  |

