

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041317\  
 Data File : BF094422.D  
 Acq On : 14 Apr 2017 10:01  
 Operator : SJ/MA  
 Sample : I2672-07 10X  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-AA10-SSW-2

Manual Integrations  
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mohammad  
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Quant Time: Apr 14 10:32:48 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 14 01:21:26 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.79  | 152  | 145264   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8          | 7.29  | 136  | 563353   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10        | 9.42  | 164  | 236362   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10        | 11.25 | 188  | 368382   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12            | 14.49 | 240  | 276997   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12            | 16.12 | 264  | 212308   | 20.00 | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.33  | 112  | 95618    | 11.12 | ng    | -0.05    |
| 7) Phenol-d6                | 5.40  | 99   | 120470   | 11.32 | ng    | -0.06    |
| 23) Nitrobenzene-d5         | 6.43  | 82   | 70520    | 7.14  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol    | 10.39 | 330  | 15031    | 8.05  | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 8.60  | 172  | 134328   | 8.67  | ng    | -0.05    |
| 78) Terphenyl-d14           | 13.22 | 244  | 80233    | 6.49  | ng    | -0.06    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 70) Phenanthrene            | 11.27 | 178  | 44072    | 2.15  | ng    | 98       |
| 74) Fluoranthene            | 12.73 | 202  | 69382    | 3.31  | ng    | 99       |
| 77) Pyrene                  | 13.01 | 202  | 57043    | 2.84  | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.72 | 252  | 26806m   | 2.06  | ng    |          |

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

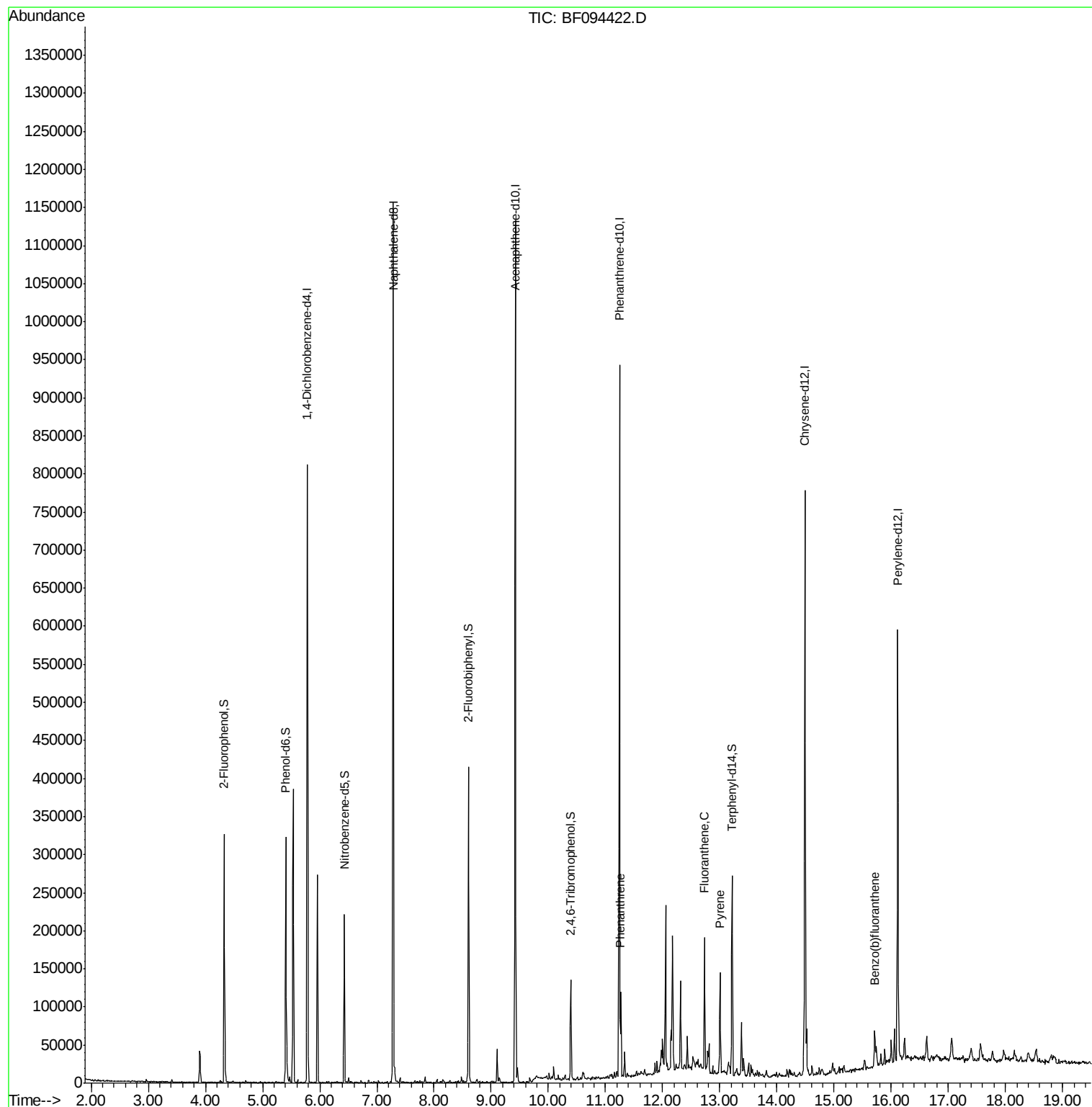
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF041317\  
Data File : BF094422.D  
Acq On : 14 Apr 2017 10:01  
Operator : SJ/MA  
Sample : I2672-07 10X  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

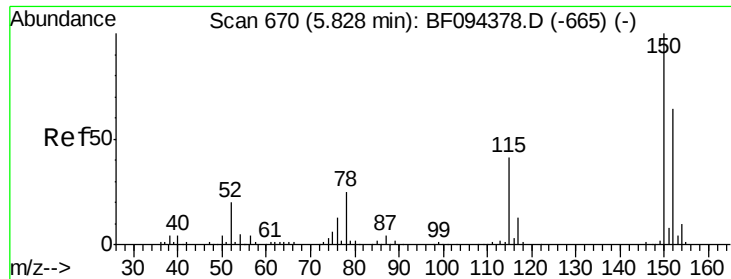
Instrument :  
BNA\_F  
ClientSampleId :  
E2-AA10-SSW-2

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Quant Time: Apr 14 10:32:48 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 14 01:21:26 2017  
Response via : Initial Calibration





#1

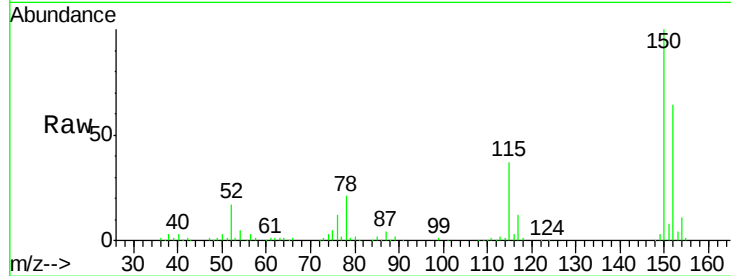
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.79 min Scan# 663  
Delta R.T. -0.04 min  
Lab File: BF094422.D  
Acq: 14 Apr 2017 10:01

Instrument :  
BNA\_F  
ClientSampleId :  
E2-AA10-SSW-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.9 | 126.2 | 189.2 |
| 115     | 58.0  | 52.2  | 78.2  |

Manual Integrations  
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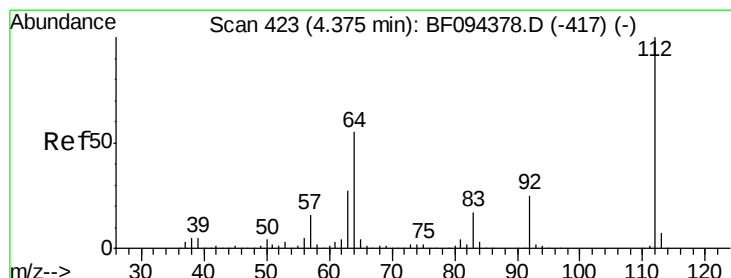
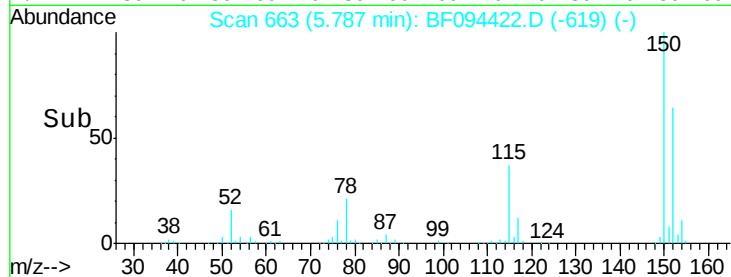
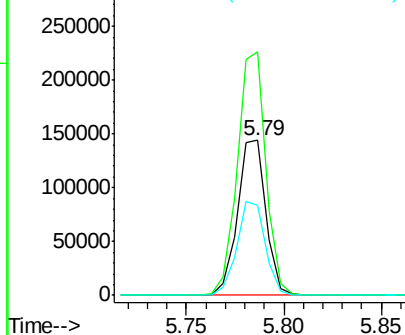


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

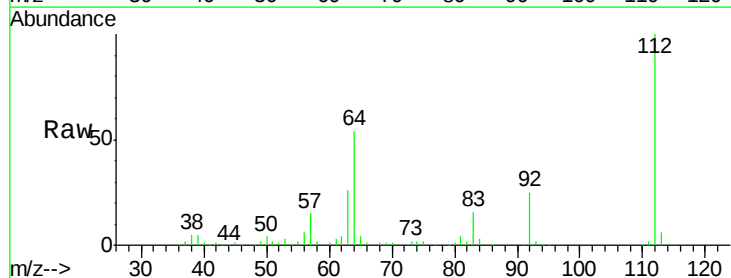
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 11.12 ng  
RT: 4.33 min Scan# 415  
Delta R.T. -0.05 min  
Lab File: BF094422.D  
Acq: 14 Apr 2017 10:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.3  | 46.0  | 69.0  |
| 63      | 26.5  | 23.4  | 35.0  |

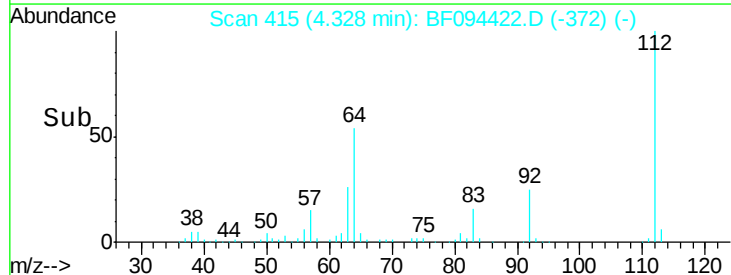
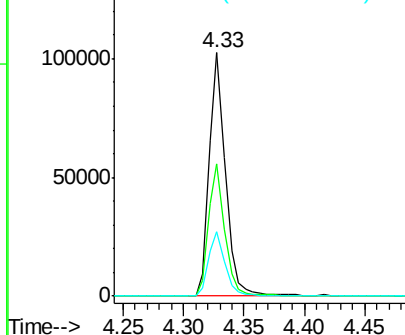


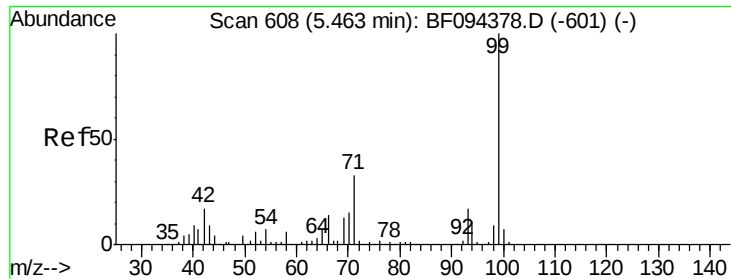
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 11.32 ng

RT: 5.40 min Scan# 598

Delta R.T. -0.06 min

Lab File: BF094422.D

Acq: 14 Apr 2017 10:01

Instrument :

BNA\_F

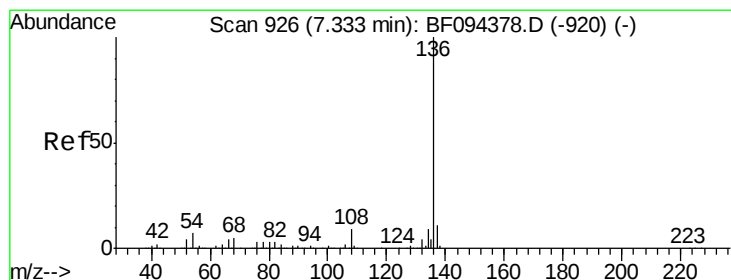
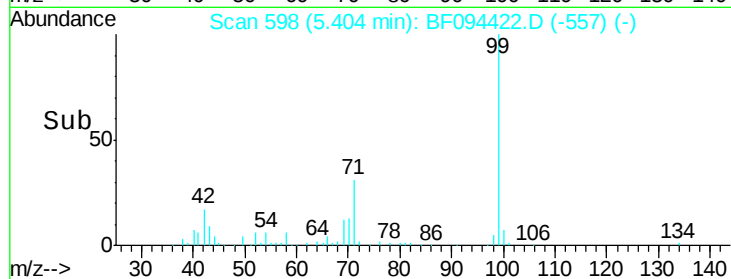
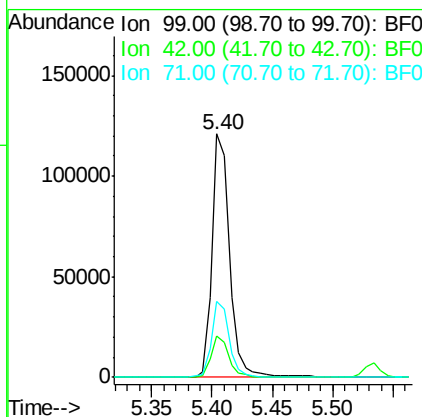
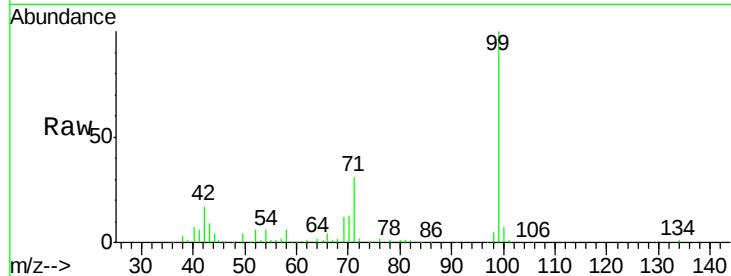
ClientSampleId :

E2-AA10-SSW-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 120470 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.2  | 13.5  | 20.3   |
| 71        | 31.2  | 24.5  | 36.7   |

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#21

Naphthalene-d8

Concen: 20.00 ng

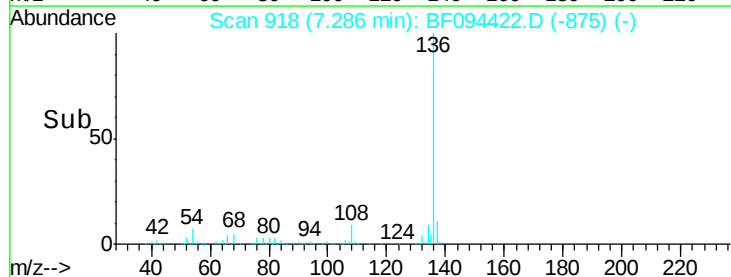
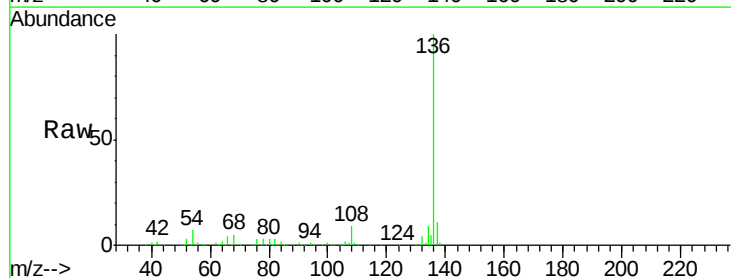
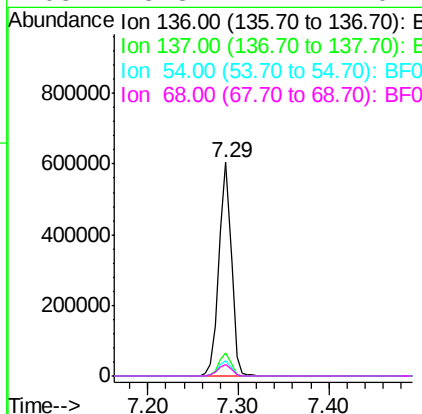
RT: 7.29 min Scan# 918

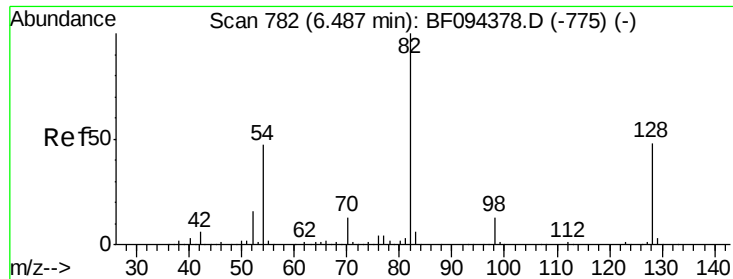
Delta R.T. -0.05 min

Lab File: BF094422.D

Acq: 14 Apr 2017 10:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 563353 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.5   | 12.7   |
| 54        | 6.9   | 4.9   | 7.3    |
| 68        | 5.3   | 4.1   | 6.1    |





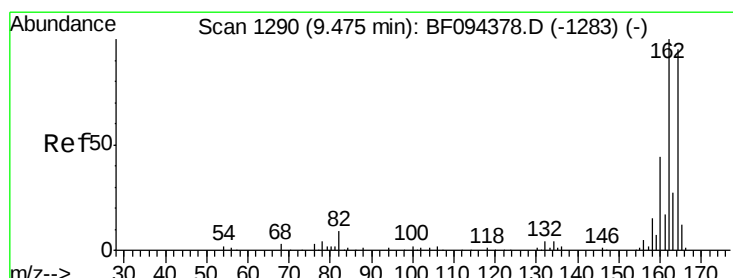
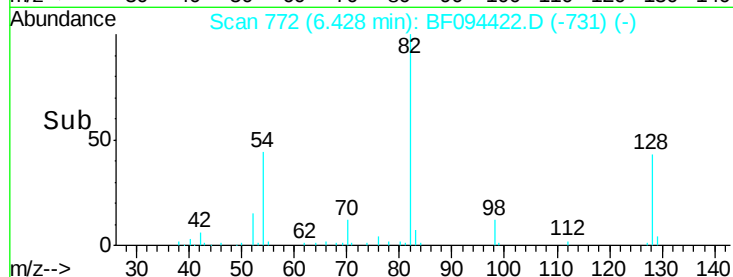
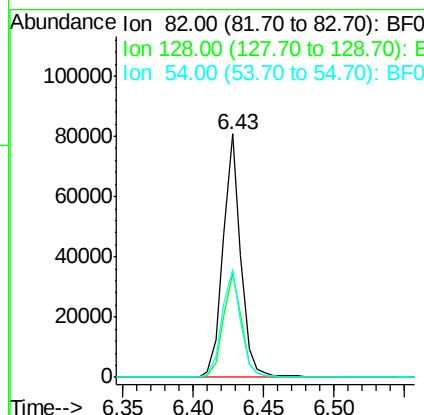
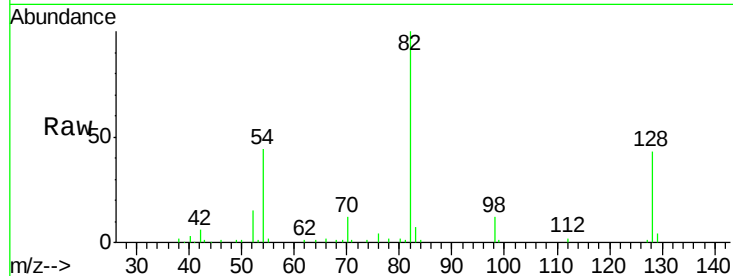
#23  
 Nitrobenzene-d5  
 Concen: 7.14 ng  
 RT: 6.43 min Scan# 772  
 Delta R.T. -0.06 min  
 Lab File: BF094422.D  
 Acq: 14 Apr 2017 10:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-AA10-SSW-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.6  | 34.0  | 51.0  |
| 54      | 44.1  | 42.2  | 63.2  |

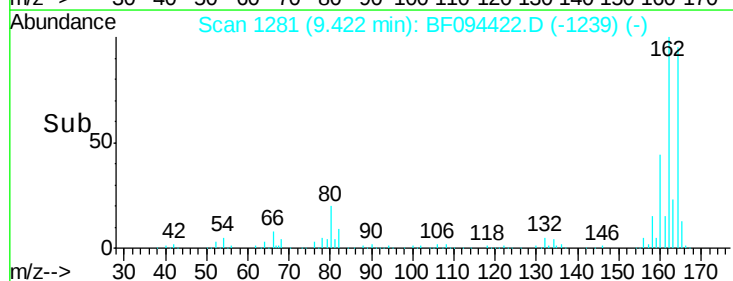
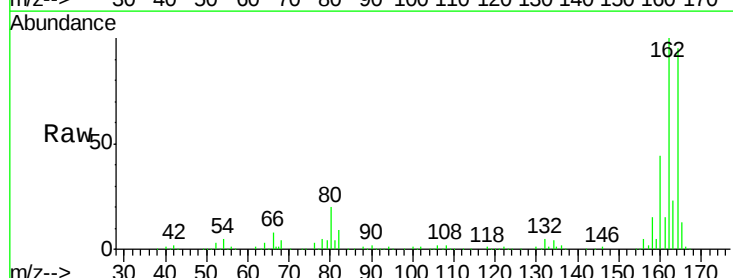
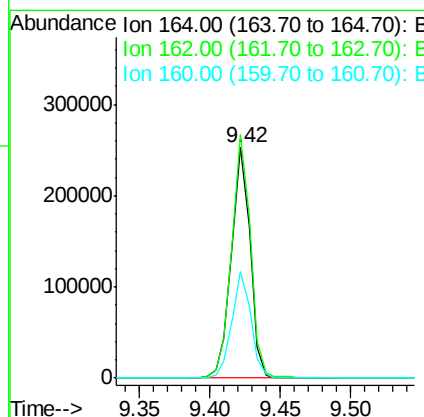
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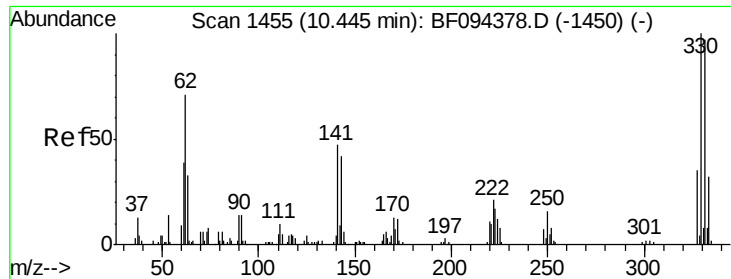
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.42 min Scan# 1281  
 Delta R.T. -0.05 min  
 Lab File: BF094422.D  
 Acq: 14 Apr 2017 10:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.6 | 82.6  | 123.8 |
| 160     | 46.0  | 36.2  | 54.2  |





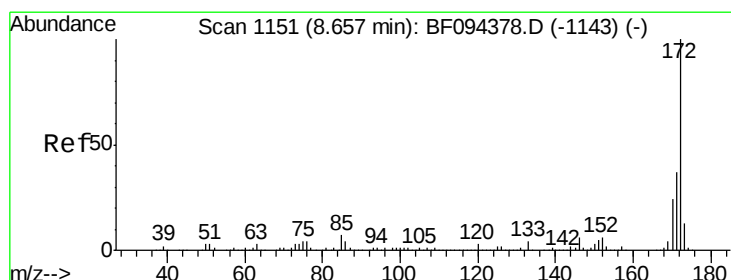
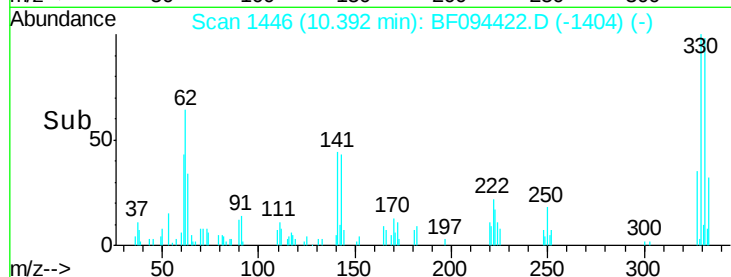
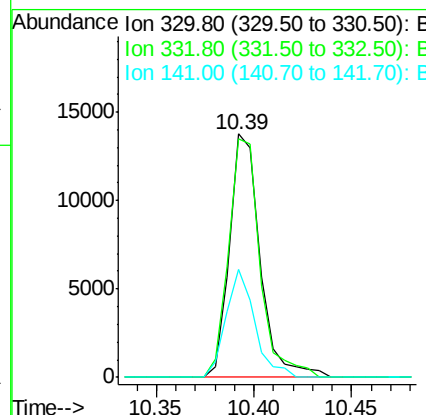
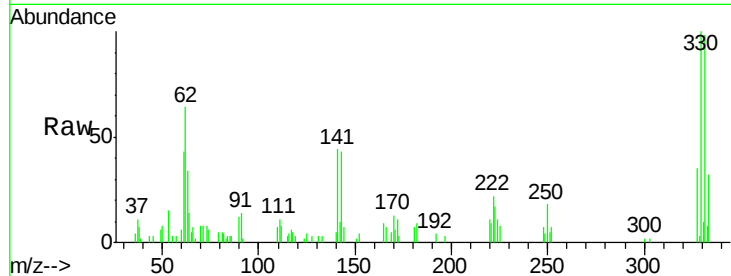
#41  
 2,4,6-Tribromophenol  
 Concen: 8.05 ng  
 RT: 10.39 min Scan# 1446  
 Delta R.T. -0.05 min  
 Lab File: BF094422.D  
 Acq: 14 Apr 2017 10:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-AA10-SSW-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 100.2 | 76.6  | 115.0 |
| 141     | 41.5  | 31.4  | 47.2  |

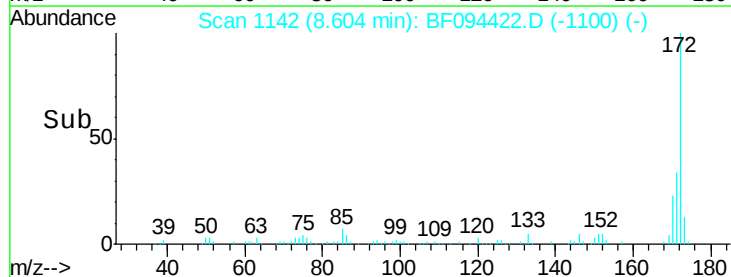
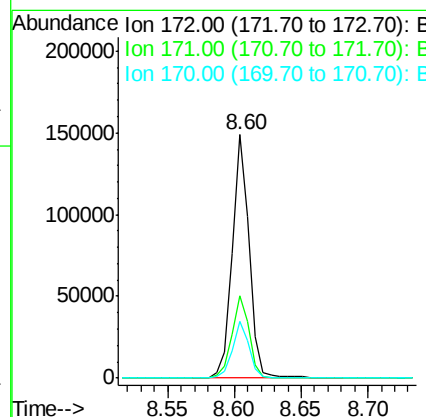
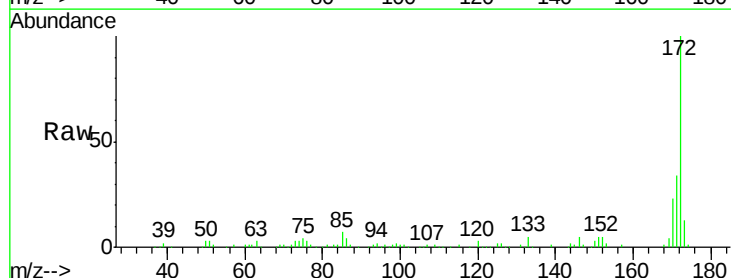
Manual Integrations  
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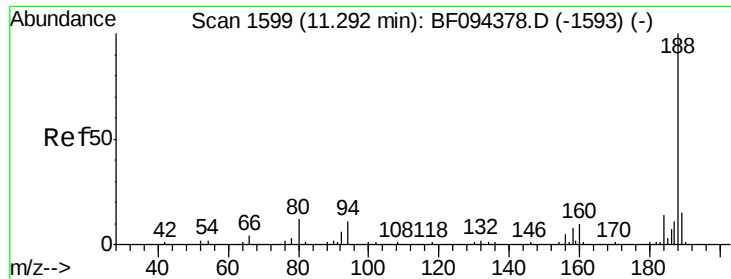
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#44  
 2-Fluorobiphenyl  
 Concen: 8.67 ng  
 RT: 8.60 min Scan# 1142  
 Delta R.T. -0.05 min  
 Lab File: BF094422.D  
 Acq: 14 Apr 2017 10:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.7  | 29.6  | 44.4  |
| 170     | 23.2  | 19.8  | 29.8  |





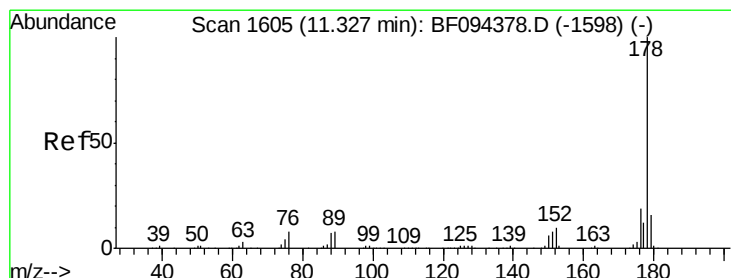
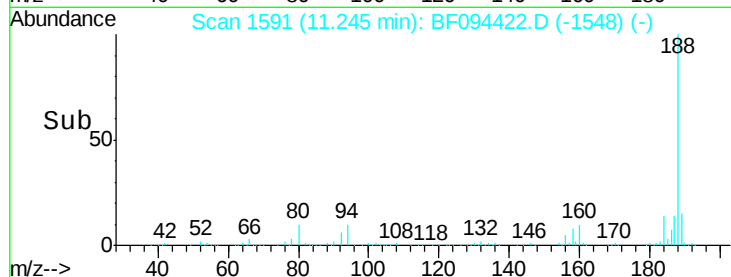
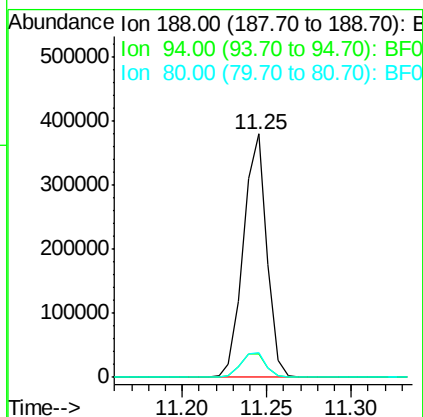
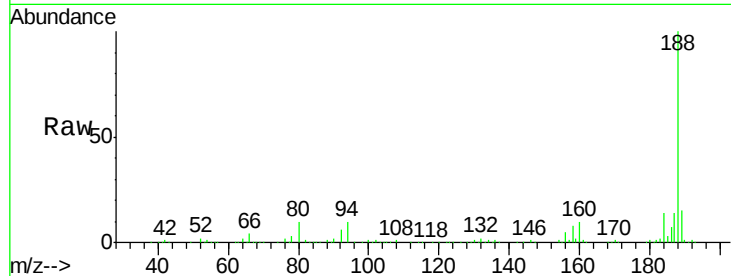
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 1591  
Delta R.T. -0.05 min  
Lab File: BF094422.D  
Acq: 14 Apr 2017 10:01

Instrument :  
BNA\_F  
ClientSampleId :  
E2-AA10-SSW-2

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.8   | 9.4        | 14.2       |
| 80      | 10.4  | 10.2       | 15.2       |

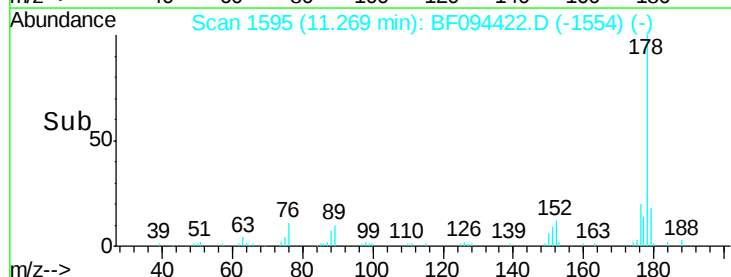
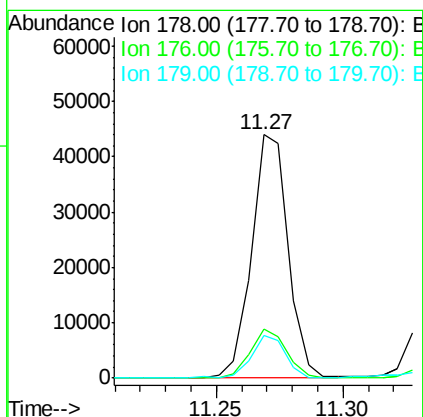
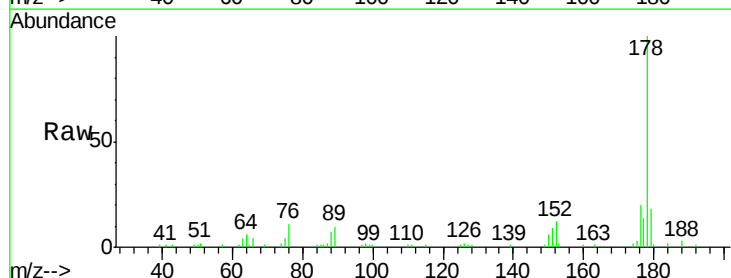
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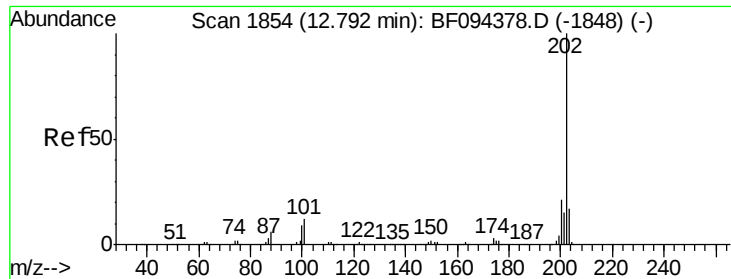
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#70  
Phenanthrene  
Concen: 2.15 ng  
RT: 11.27 min Scan# 1595  
Delta R.T. -0.06 min  
Lab File: BF094422.D  
Acq: 14 Apr 2017 10:01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 19.9  | 16.2       | 24.4       |
| 179     | 17.7  | 12.6       | 19.0       |





#74

Fluoranthene

Concen: 3.31 ng

RT: 12.73 min Scan# 1844

Delta R.T. -0.06 min

Lab File: BF094422.D

Acq: 14 Apr 2017 10:01

Instrument :

BNA\_F

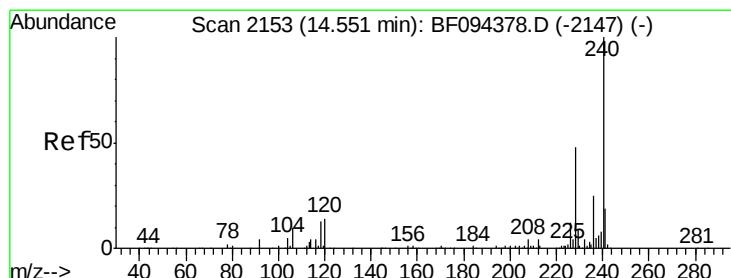
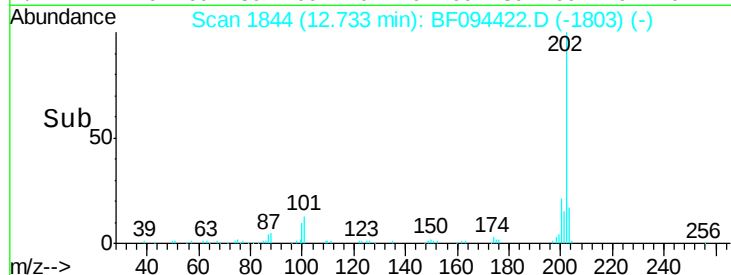
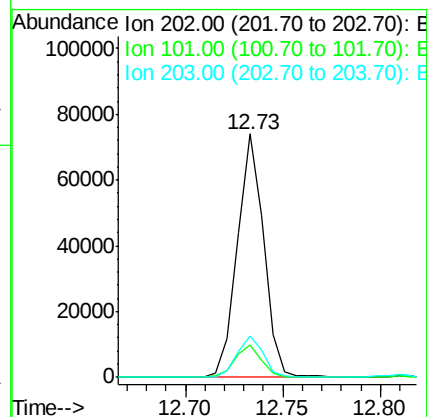
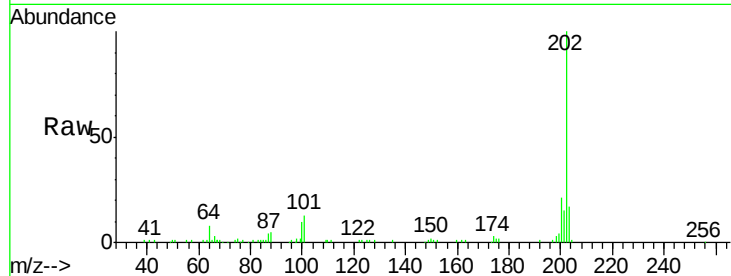
ClientSampleId :

E2-AA10-SSW-2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 69382 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.3  | 0.0   | 33.2  |
| 203       | 17.2  | 0.0   | 38.1  |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.00 ng

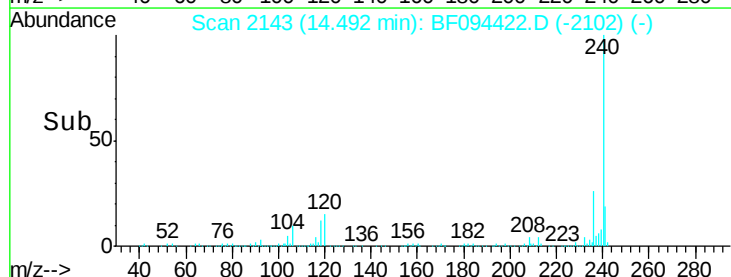
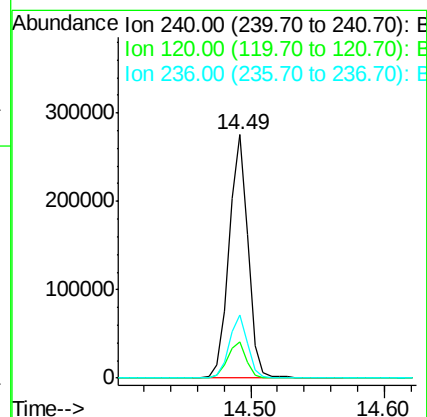
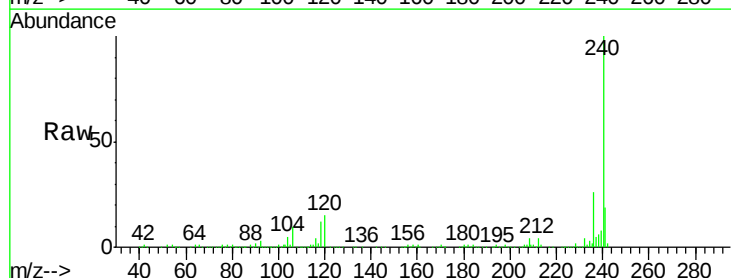
RT: 14.49 min Scan# 2143

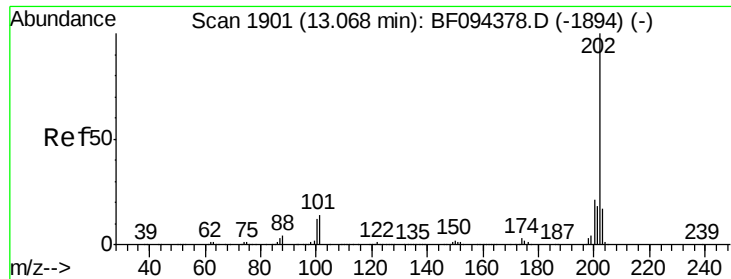
Delta R.T. -0.06 min

Lab File: BF094422.D

Acq: 14 Apr 2017 10:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 276997 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.1  | 5.8   | 8.8#   |
| 236       | 26.0  | 20.5  | 30.7   |





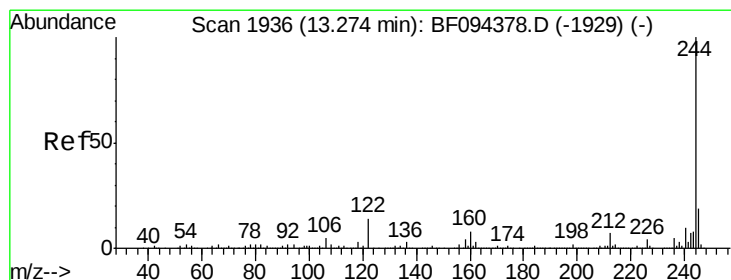
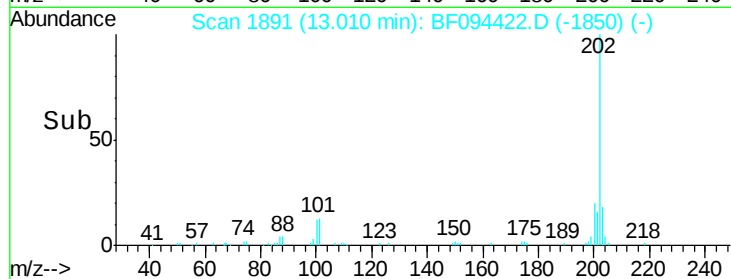
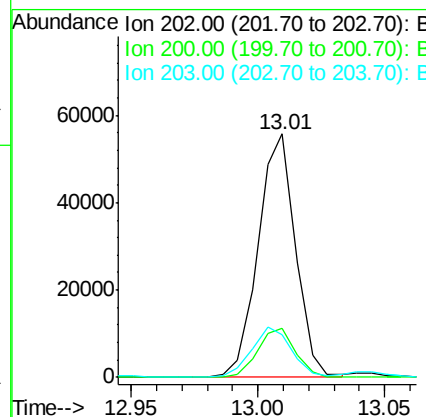
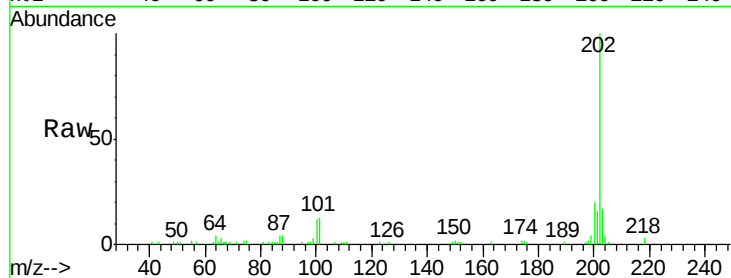
#77  
 Pyrene  
 Concen: 2.84 ng  
 RT: 13.01 min Scan# 1891  
 Delta R.T. -0.06 min  
 Lab File: BF094422.D  
 Acq: 14 Apr 2017 10:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-AA10-SSW-2

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 57043 |       |       |
| 200     | 20.0  |       | 17.6  | 26.4  |
| 203     | 17.5  |       | 14.4  | 21.6  |

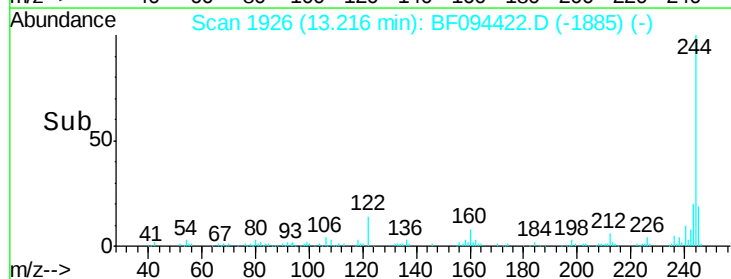
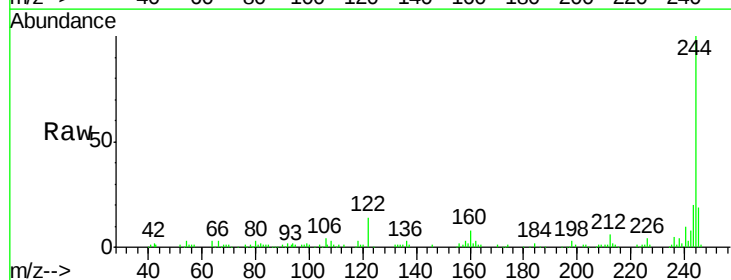
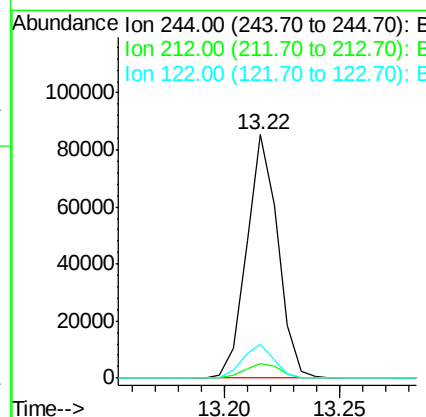
Manual Integrations  
 APPROVED

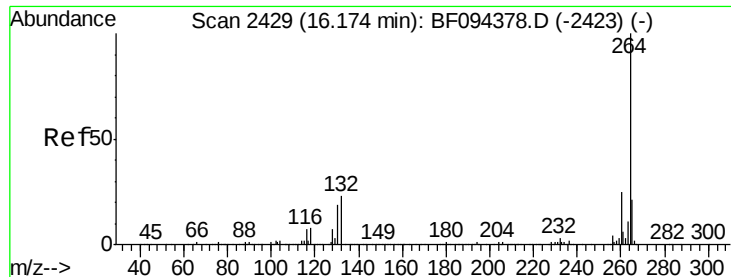
mohammad  
 4/14/2017 1:36:20 PM



#78  
 Terphenyl-d14  
 Concen: 6.49 ng  
 RT: 13.22 min Scan# 1926  
 Delta R.T. -0.06 min  
 Lab File: BF094422.D  
 Acq: 14 Apr 2017 10:01

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 244     | 100   | 80233 |       |       |
| 212     | 6.1   |       | 6.0   | 9.0   |
| 122     | 14.0  |       | 10.3  | 15.5  |





#86

Perylene-d12

Concen: 20.00 ng

RT: 16.12 min Scan# 2419

Delta R.T. -0.06 min

Lab File: BF094422.D

Acq: 14 Apr 2017 10:01

Instrument :

BNA\_F

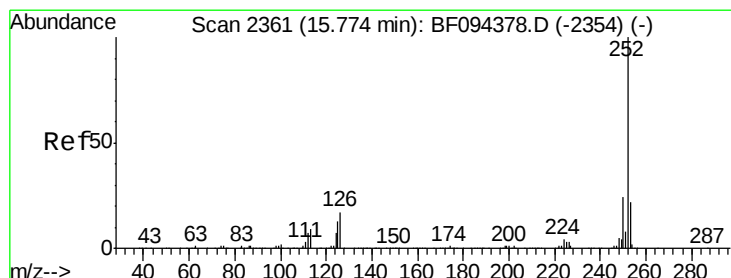
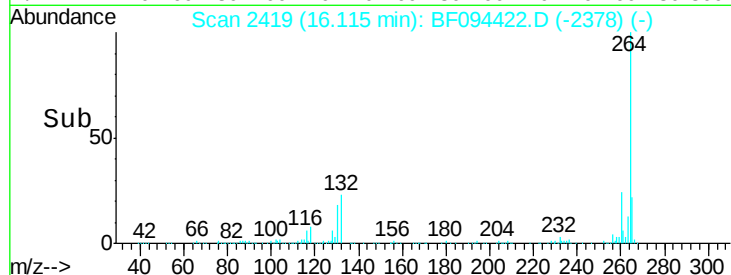
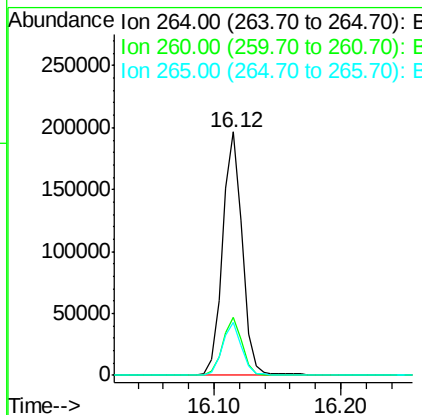
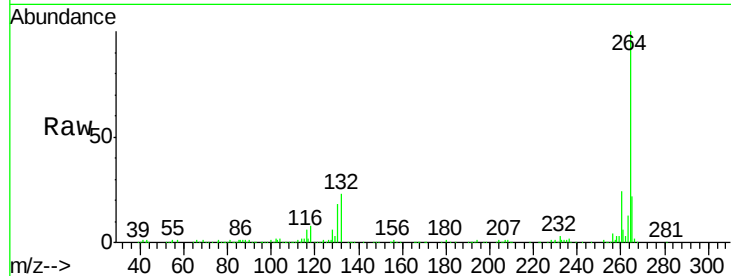
ClientSampleId :

E2-AA10-SSW-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 212308 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.9  | 19.5  | 29.3   |
| 265       | 22.0  | 17.2  | 25.8   |

Manual Integrations  
APPROVED

mohammad  
4/14/2017 1:36:20 PM



#87

Benzo(b)fluoranthene

Concen: 2.06 ng m

RT: 15.72 min Scan# 2351

Delta R.T. -0.06 min

Lab File: BF094422.D

Acq: 14 Apr 2017 10:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 26806 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 18.1  | 27.1  |
| 125       | 14.0  | 9.8   | 14.8  |

