

Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\  
 Data File : BF097929.D  
 Acq On : 22 Aug 2017 2:21  
 Operator : SJ/JU  
 Sample : I4892-01 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-081817

Manual Integrations  
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Quant Time: Aug 22 06:53:48 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.75  | 152  | 103509   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.03  | 136  | 358530   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.79  | 164  | 143342   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.26 | 188  | 257320   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.90 | 240  | 219549   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.32 | 264  | 140214   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.35  | 112  | 158708   | 23.32  | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 206056   | 22.29  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 116285   | 17.62  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 24581    | 19.76  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.11  | 172  | 155991   | 15.99  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.85 | 244  | 120017   | 11.40  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.50  | 163  | 39918    | 3.810  | ng    | # 97     |
| 57) Fluorene                | 10.33 | 166  | 19969    | 2.015  | ng    | # 97     |
| 70) Phenanthrene            | 11.29 | 178  | 128768   | 9.391  | ng    | 99       |
| 71) Anthracene              | 11.34 | 178  | 46686    | 3.357  | ng    | 99       |
| 74) Fluoranthene            | 12.47 | 202  | 181131   | 12.656 | ng    | 97       |
| 77) Pyrene                  | 12.70 | 202  | 165271   | 9.204  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.89 | 228  | 66966    | 5.089  | ng    | 96       |
| 82) Chrysene                | 13.93 | 228  | 58403m   | 4.462  | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.92 | 252  | 52143m   | 5.900  | ng    |          |
| 89) Benzo(a)pyrene          | 15.26 | 252  | 34286    | 4.382  | ng    | # 84     |
| 91) Benzo(g,h,i)perylene    | 17.12 | 276  | 17289    | 2.601  | ng    | # 93     |

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

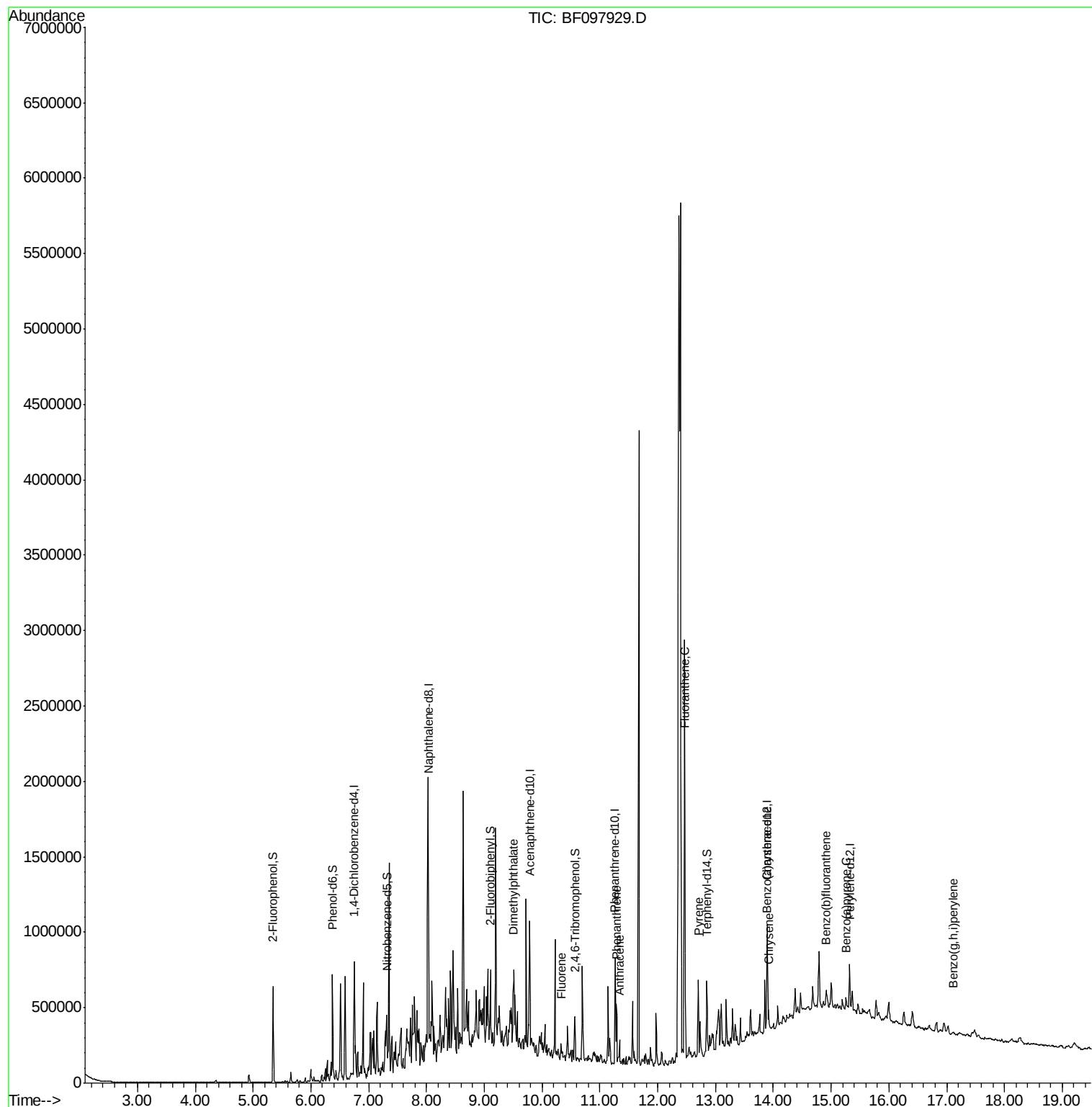
Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\  
Data File : BF097929.D  
Acq On : 22 Aug 2017 2:21  
Operator : SJ/JU  
Sample : I4892-01 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

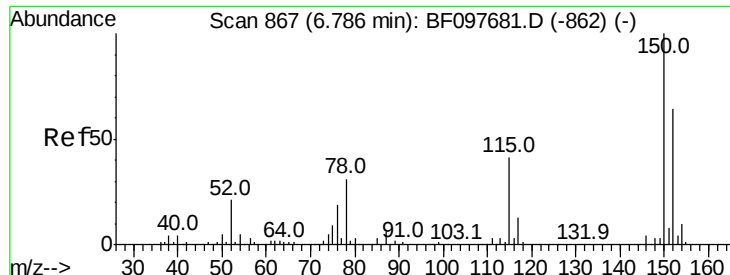
Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-081817

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Quant Time: Aug 22 06:53:48 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 21 15:59:04 2017  
Response via : Initial Calibration





#1

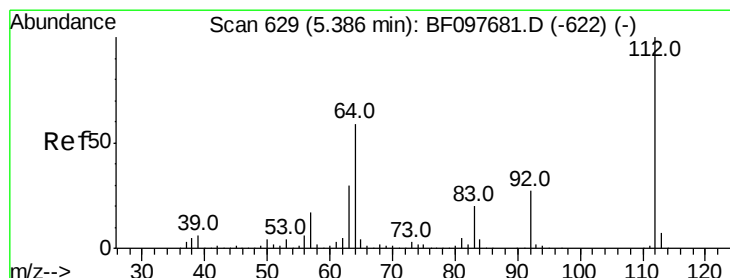
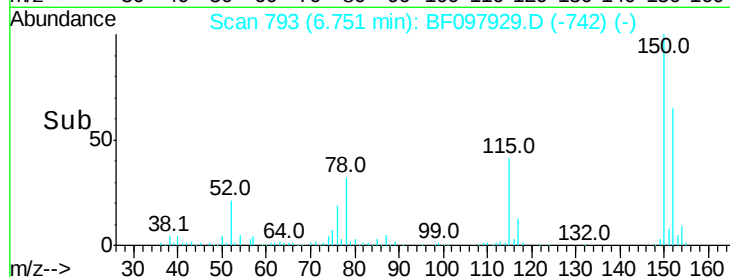
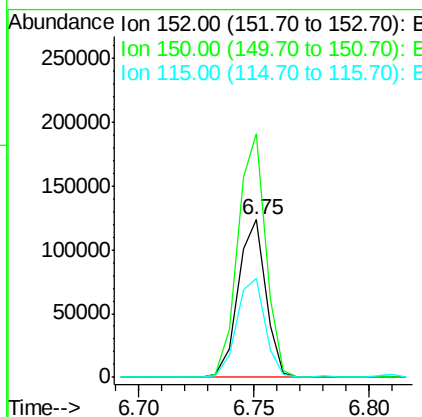
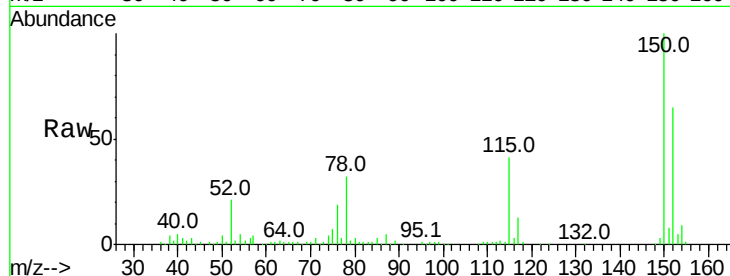
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.75 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: BF097929.D  
Acq: 22 Aug 2017 2:21

Instrument :  
BNA\_F  
ClientSampled :  
HR-06-081817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.8 | 126.2 | 189.2 |
| 115     | 62.8  | 52.2  | 78.2  |

Manual Integrations  
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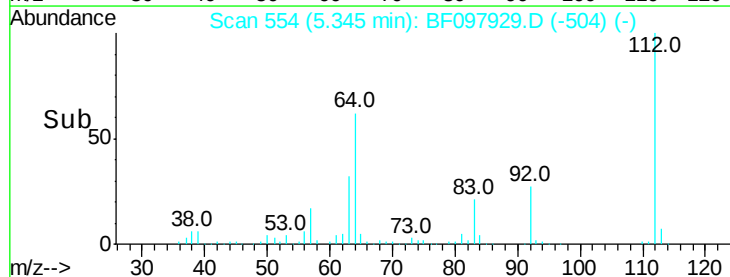
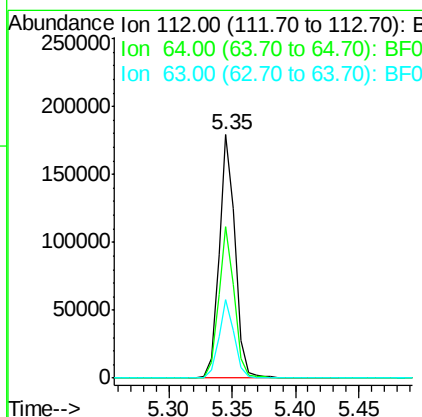
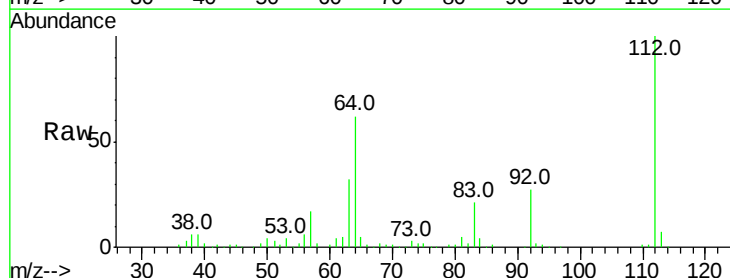
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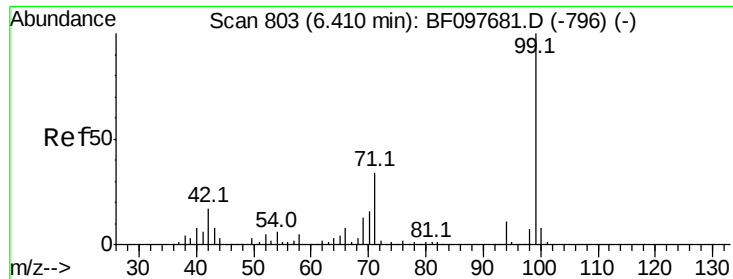


#5

2-Fluorophenol  
Concen: 23.322 ng  
RT: 5.35 min Scan# 554  
Delta R.T. -0.01 min  
Lab File: BF097929.D  
Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.0  | 46.0  | 69.0  |
| 63      | 32.1  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 22.286 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA\_F

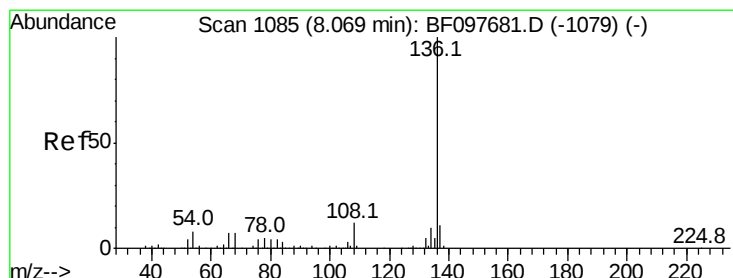
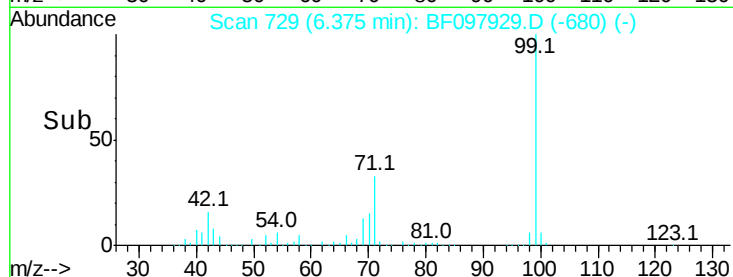
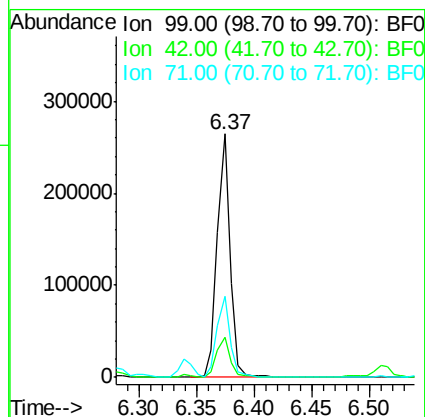
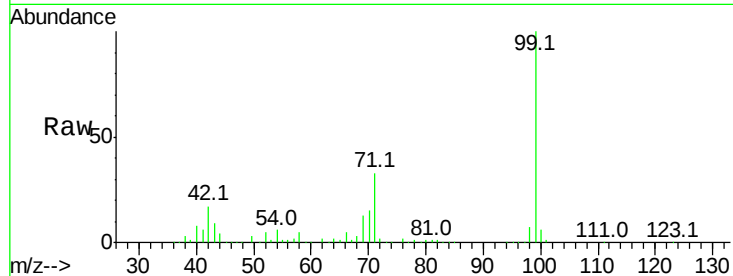
ClientSampleId :

HR-06-081817

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 206056 |       |       |
| 42      | 16.6 | 13.5  | 20.3   |       |       |
| 71      | 33.3 | 24.5  | 36.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

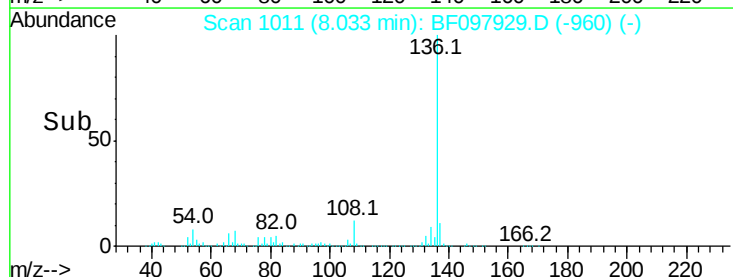
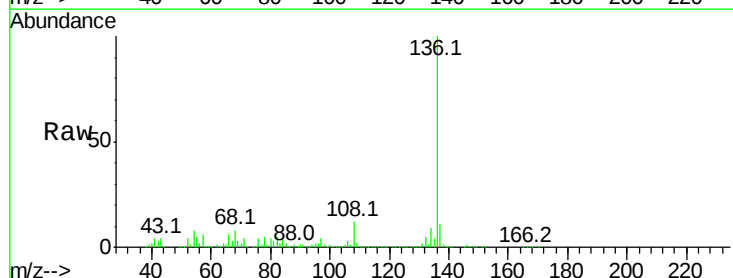
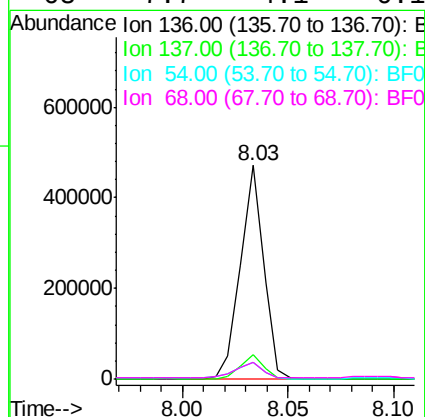
RT: 8.03 min Scan# 1011

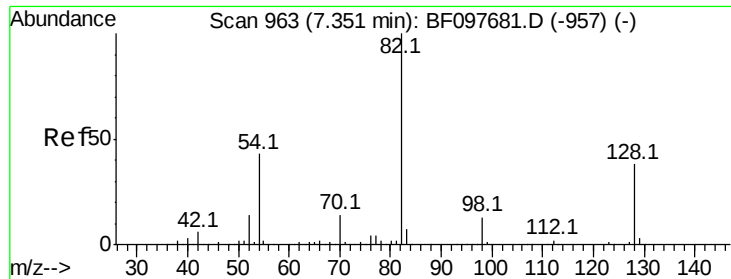
Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 358530 |       |       |
| 137     | 11.2 | 8.5   | 12.7   |       |       |
| 54      | 8.0  | 4.9   | 7.3#   |       |       |
| 68      | 7.7  | 4.1   | 6.1#   |       |       |





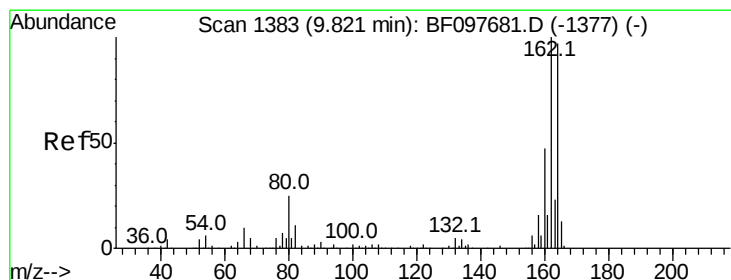
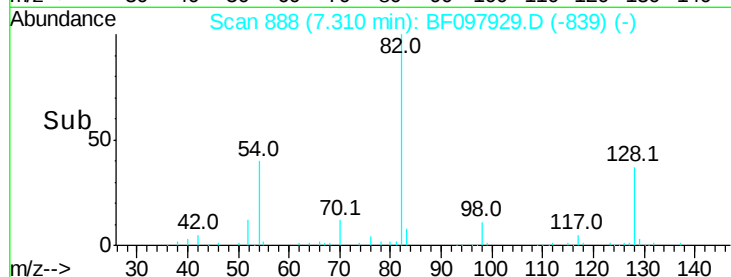
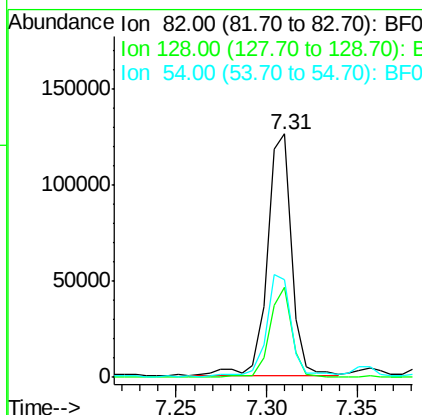
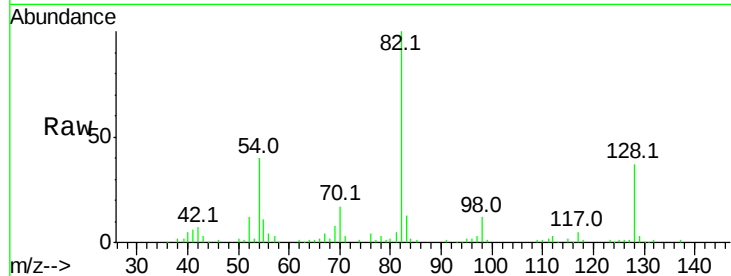
#23  
 Nitrobenzene-d5  
 Concen: 17.620 ng  
 RT: 7.31 min Scan# 888  
 Delta R.T. -0.01 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-081817

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 36.8  | 34.0       | 51.0  |
| 54      | 40.3  | 42.2       | 63.2# |

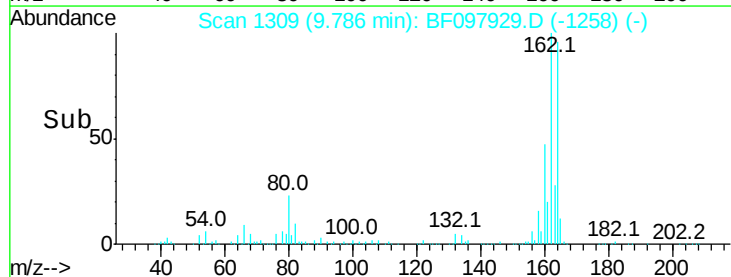
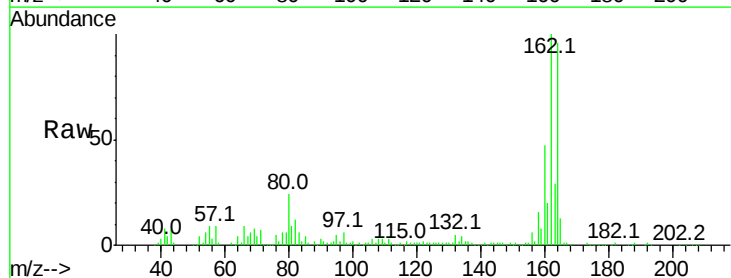
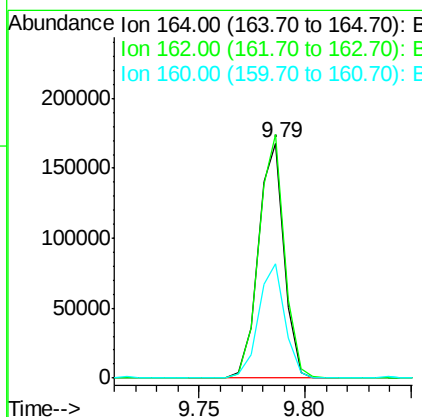
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.79 min Scan# 1309  
 Delta R.T. -0.00 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 164     | 100   |            |       |
| 162     | 103.7 | 82.6       | 123.8 |
| 160     | 48.9  | 36.2       | 54.2  |





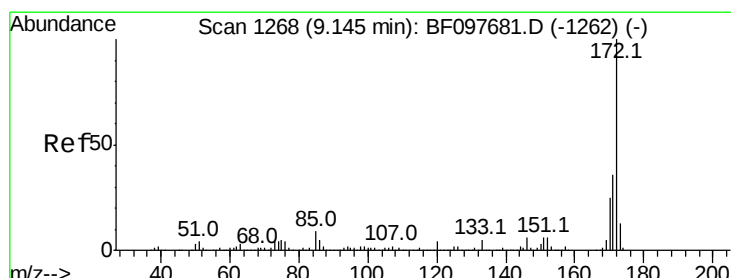
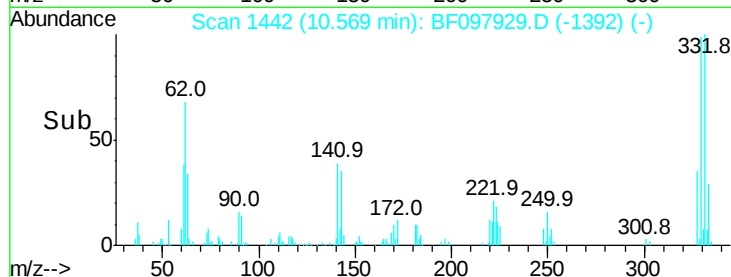
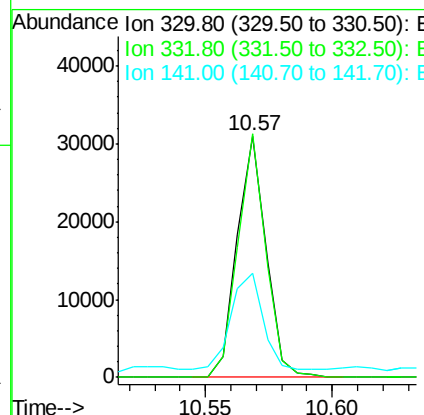
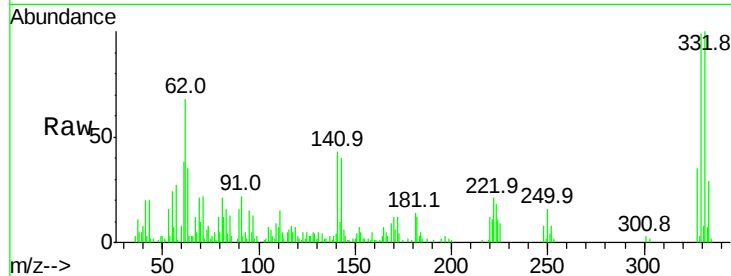
#41  
 2,4,6-Tribromophenol  
 Concen: 19.764 ng  
 RT: 10.57 min Scan# 1442  
 Delta R.T. -0.01 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-081817

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 24581 |       |       |
| 332     | 97.2  | 76.6  | 115.0 |       |
| 141     | 44.7  | 31.4  | 47.2  |       |

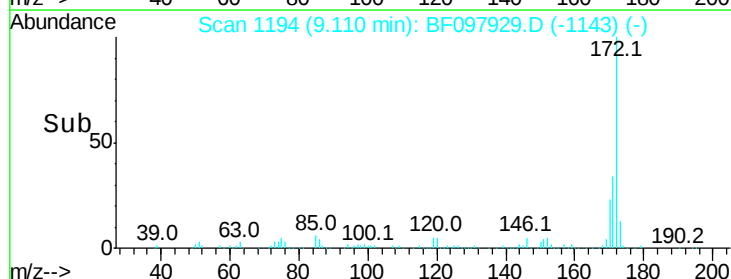
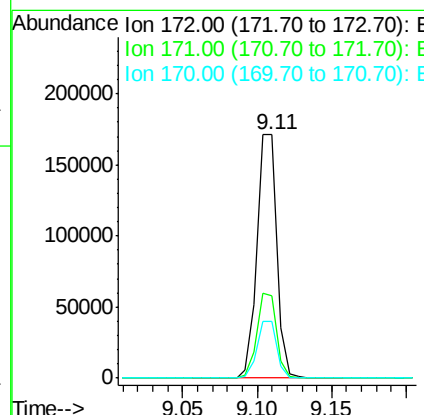
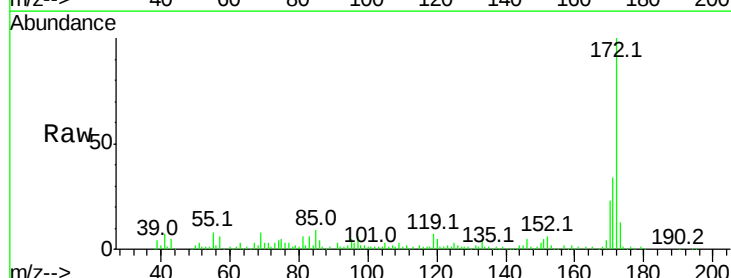
Manual Integrations  
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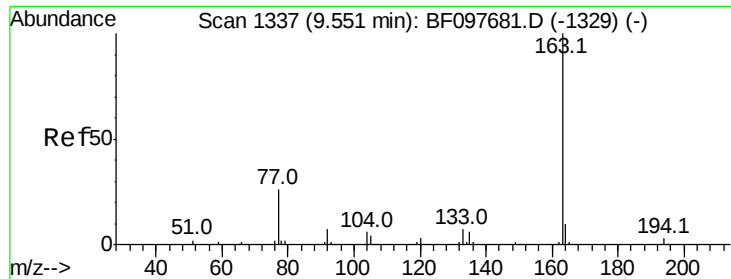
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#44  
 2-Fluorobiphenyl  
 Concen: 15.989 ng  
 RT: 9.11 min Scan# 1194  
 Delta R.T. -0.00 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 155991 |       |       |
| 171     | 34.1  | 29.6   | 44.4  |       |
| 170     | 23.4  | 19.8   | 29.8  |       |





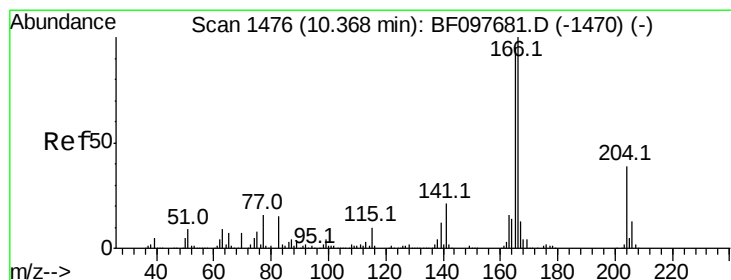
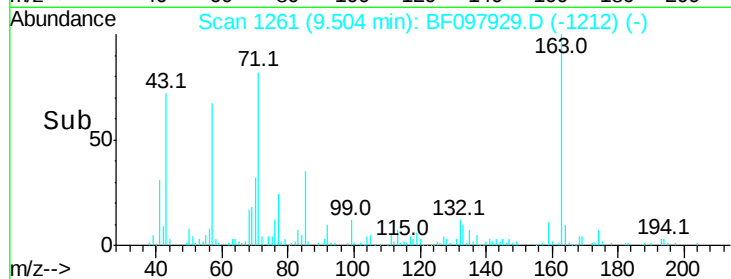
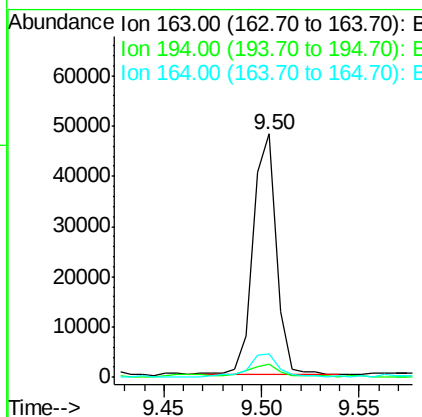
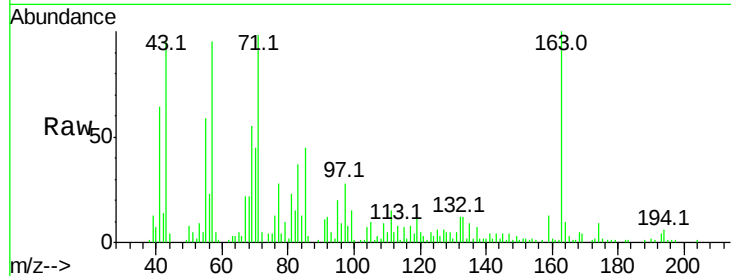
#49  
 Dimethylphthalate  
 Concen: 3.810 ng  
 RT: 9.50 min Scan# 1261  
 Delta R.T. -0.01 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-081817

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 39918 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 5.6   | 2.6   | 4.0#  |
| 164       | 9.8   | 8.4   | 12.6  |

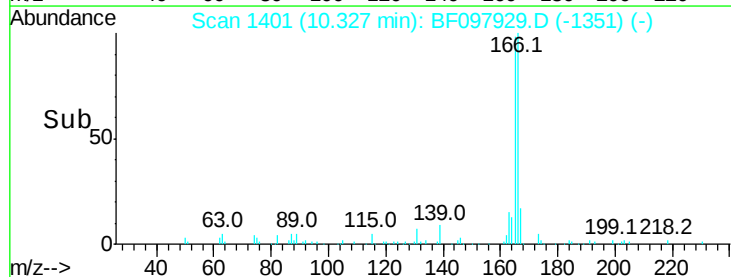
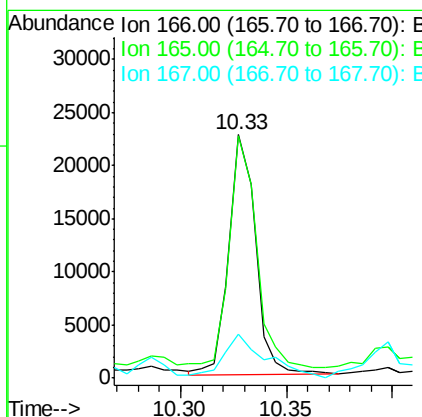
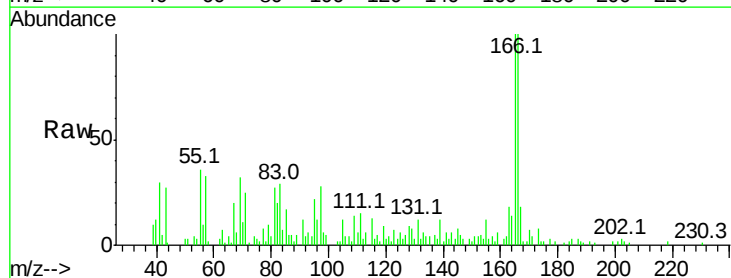
Manual Integrations  
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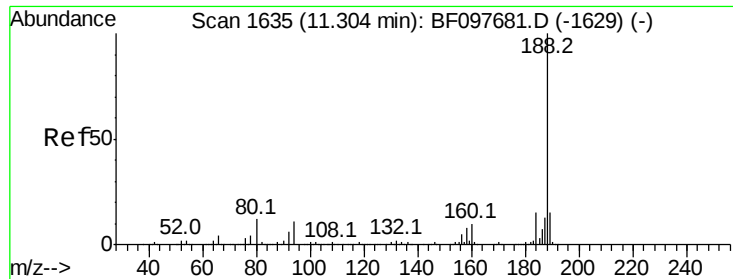
Sohil  
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#57  
 Fluorene  
 Concen: 2.015 ng  
 RT: 10.33 min Scan# 1401  
 Delta R.T. -0.01 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 19969 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.8  | 78.8  | 118.2 |
| 167       | 18.0  | 10.6  | 16.0# |





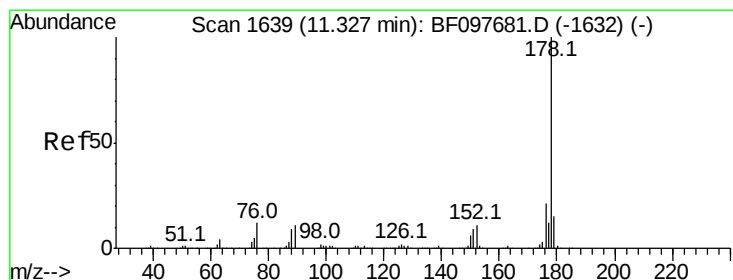
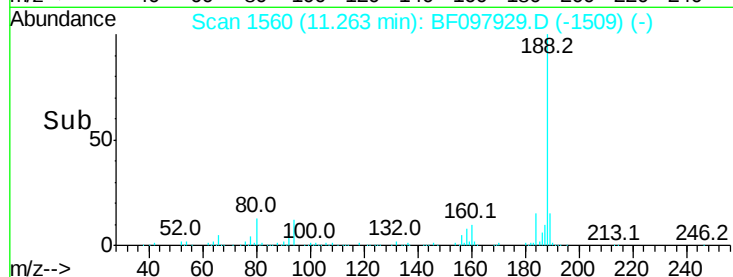
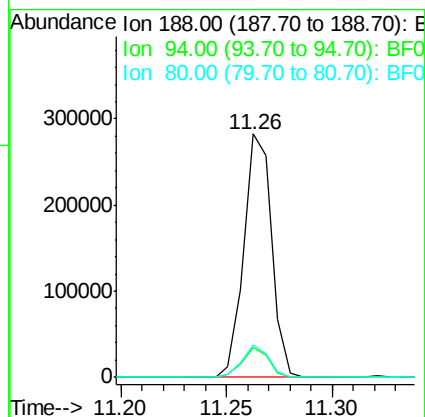
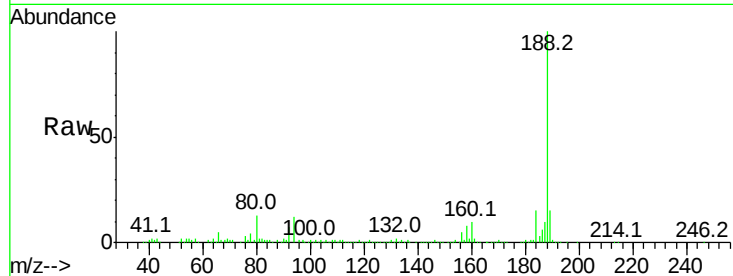
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.00 min  
Lab File: BF097929.D  
Acq: 22 Aug 2017 2:21

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-081817

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 257320 |       |       |
| 94      | 12.2  |        | 9.4   | 14.2  |
| 80      | 13.1  |        | 10.2  | 15.2  |

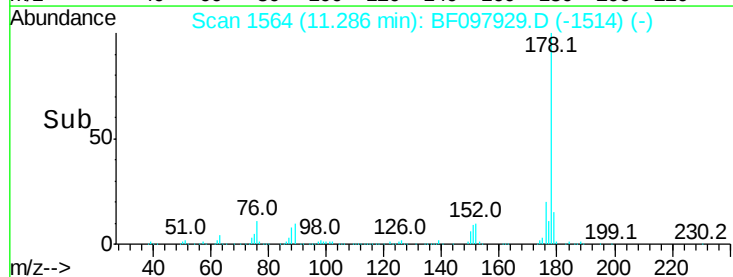
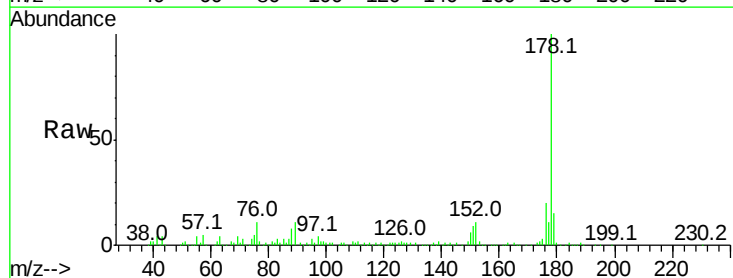
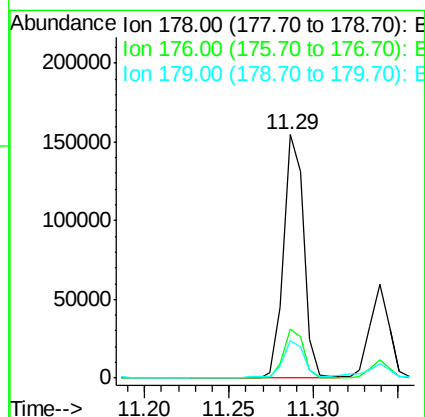
Manual Integrations  
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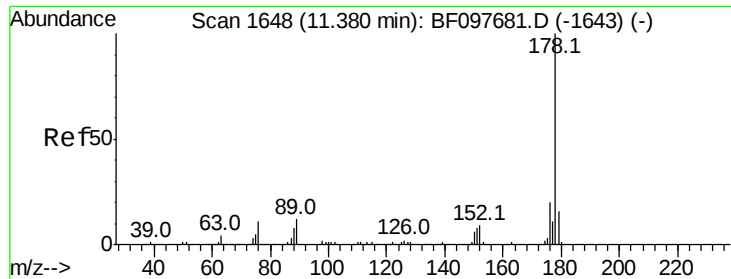
Sohil  
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#70  
Phenanthrene  
Concen: 9.391 ng  
RT: 11.29 min Scan# 1564  
Delta R.T. -0.01 min  
Lab File: BF097929.D  
Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 128768 |       |       |
| 176     | 19.9  |        | 16.2  | 24.4  |
| 179     | 15.4  |        | 12.6  | 19.0  |





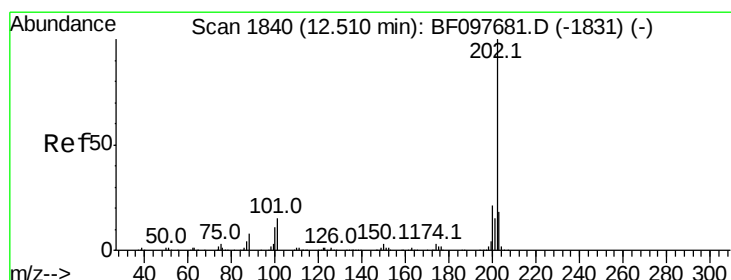
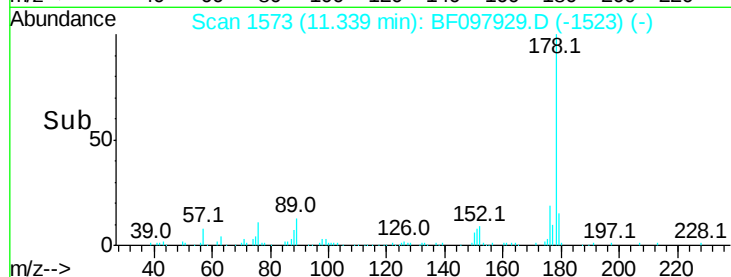
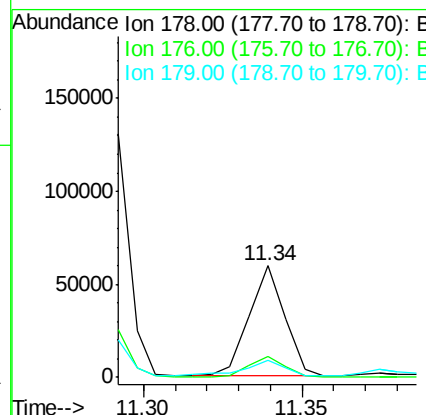
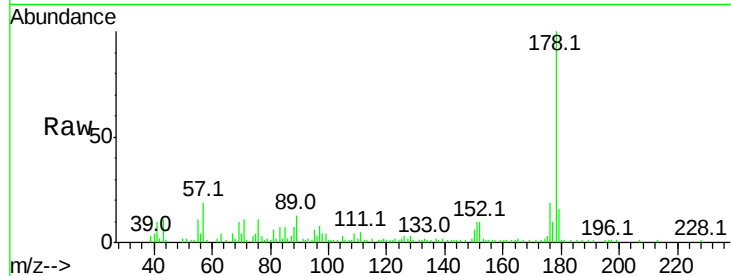
#71  
 Anthracene  
 Concen: 3.357 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. -0.01 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-081817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.8  | 23.8  |
| 179     | 15.9  | 12.7  | 19.1  |

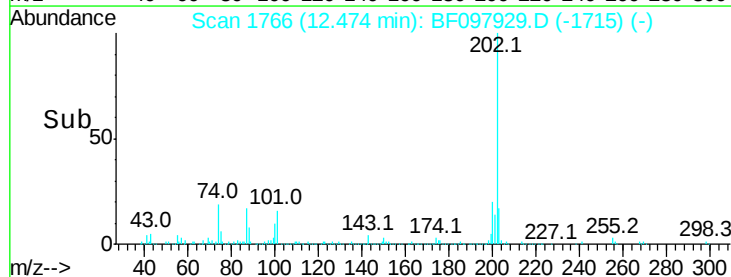
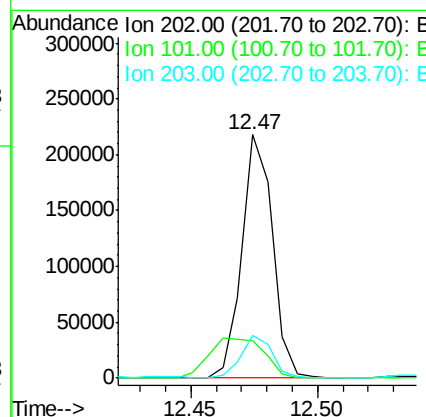
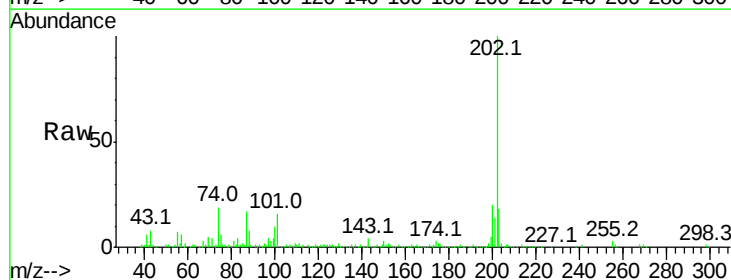
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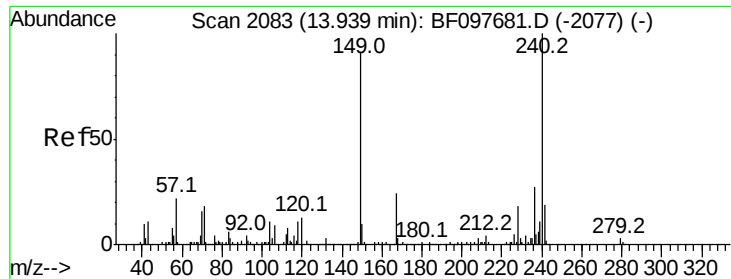
Sohil  
 8/22/2017 5:45:25 PM



#74  
 Fluoranthene  
 Concen: 12.656 ng  
 RT: 12.47 min Scan# 1766  
 Delta R.T. -0.00 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.6  | 0.0   | 33.2  |
| 203     | 17.7  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA\_F

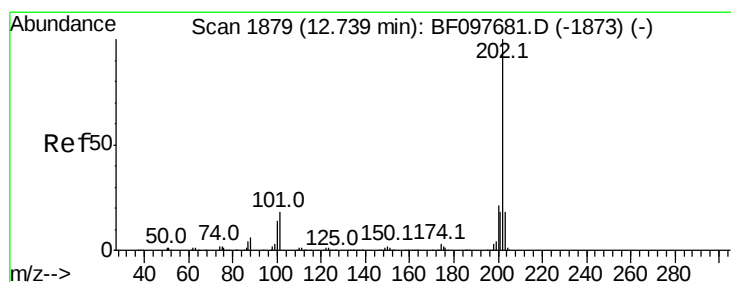
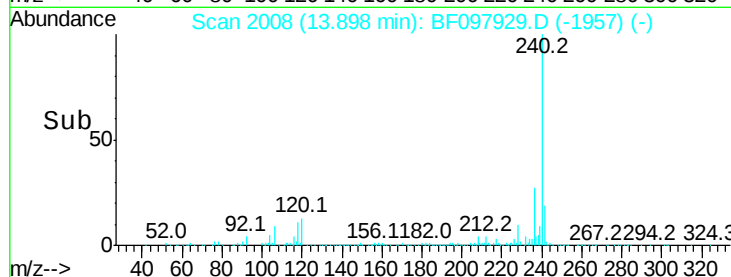
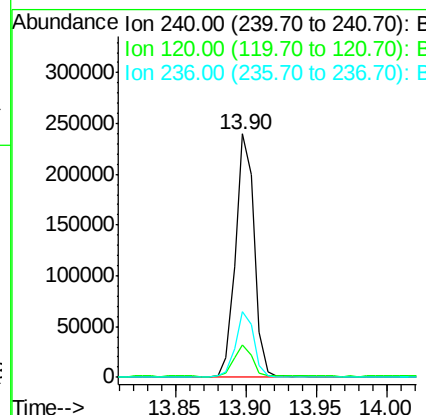
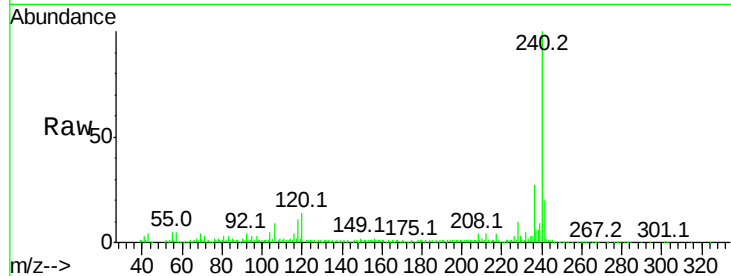
ClientSampleId :

HR-06-081817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.5  | 5.8   | 8.8#  |
| 236     | 27.2  | 20.5  | 30.7  |

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#77

Pyrene

Concen: 9.204 ng

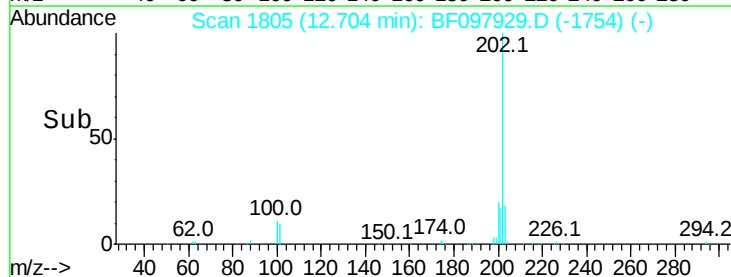
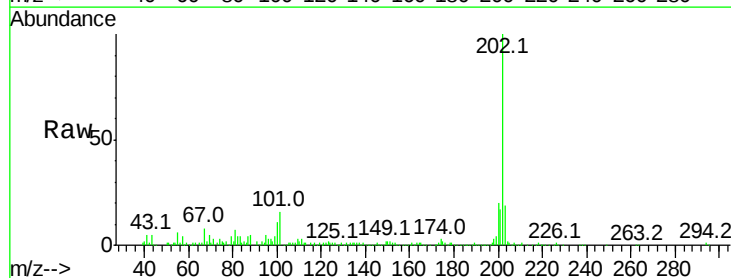
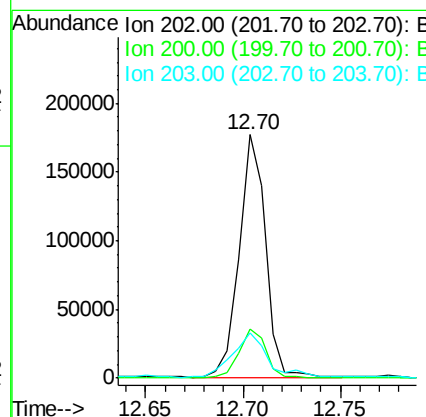
RT: 12.70 min Scan# 1805

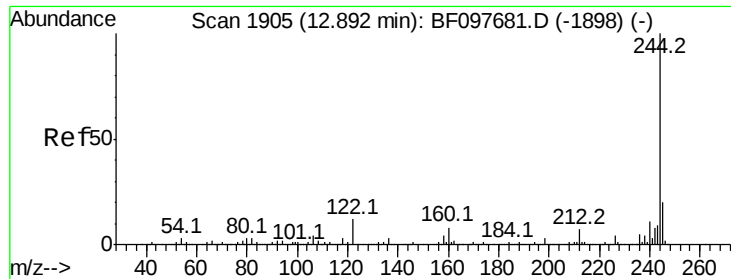
Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.2  | 17.6  | 26.4  |
| 203     | 18.8  | 14.4  | 21.6  |





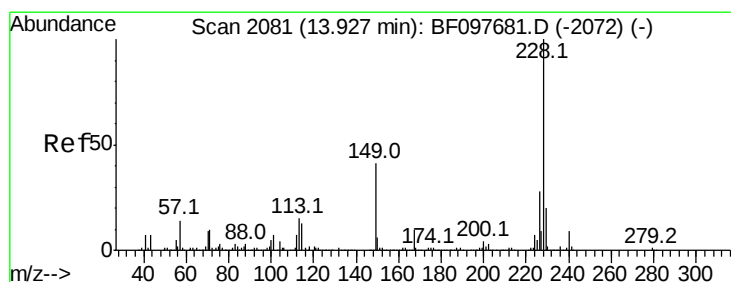
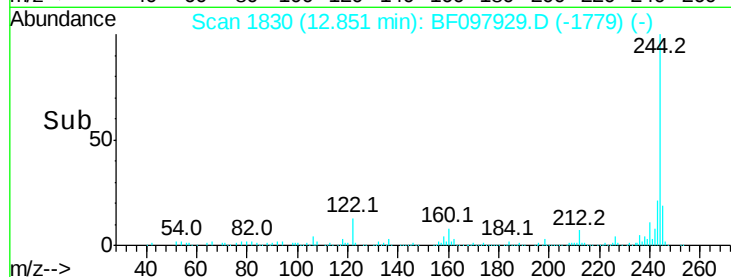
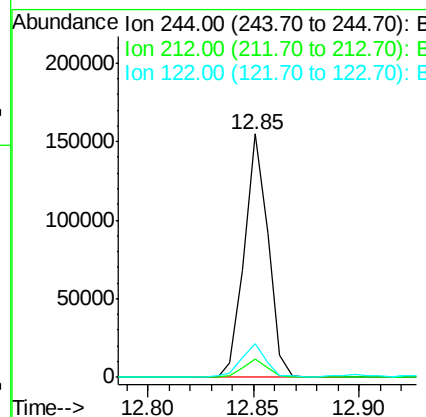
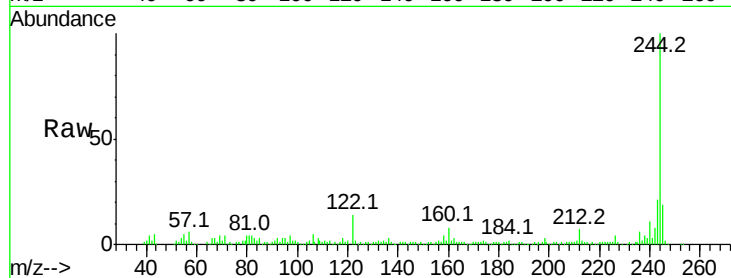
#78  
 Terphenyl-d14  
 Concen: 11.400 ng  
 RT: 12.85 min Scan# 1830  
 Delta R.T. -0.00 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-081817

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.4   | 6.0        | 9.0   |
| 122     | 13.6  | 10.3       | 15.5  |

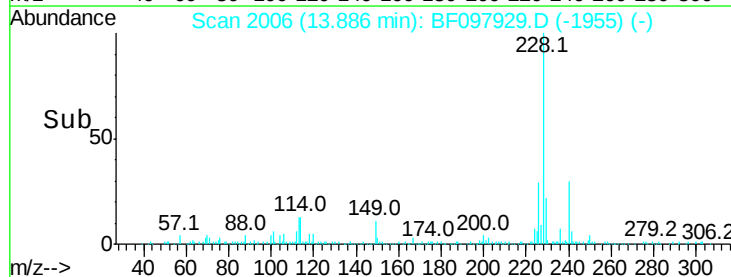
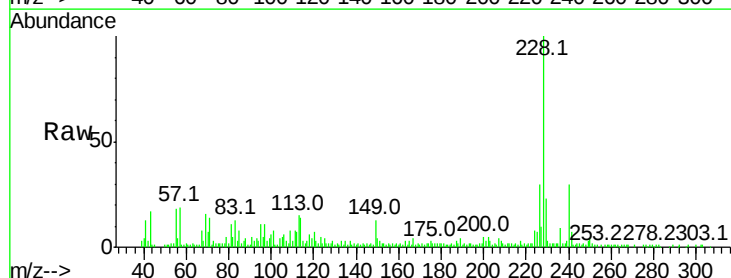
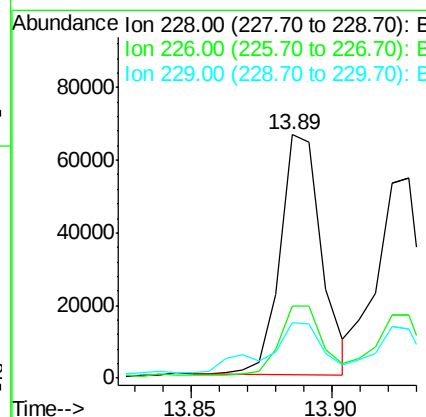
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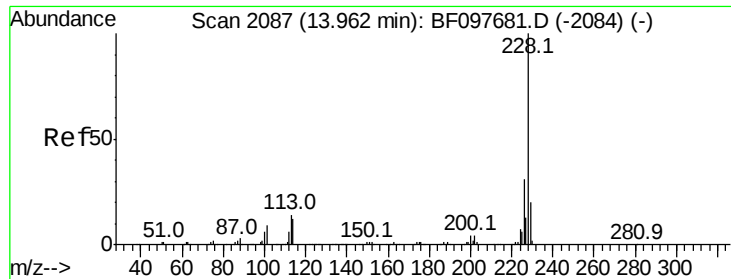
Sohil  
 8/22/2017 5:45:25 PM



#80  
 Benzo(a)anthracene  
 Concen: 5.089 ng  
 RT: 13.89 min Scan# 2006  
 Delta R.T. -0.00 min  
 Lab File: BF097929.D  
 Acq: 22 Aug 2017 2:21

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 29.8  | 22.6       | 33.8  |
| 229     | 23.0  | 16.3       | 24.5  |





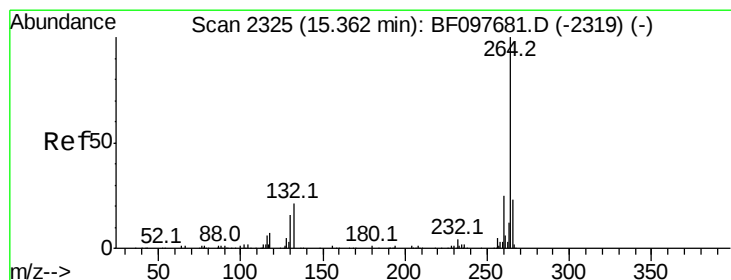
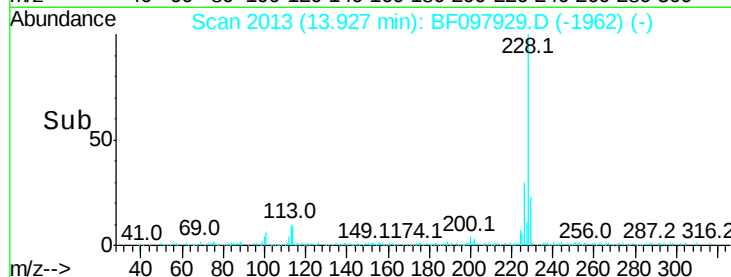
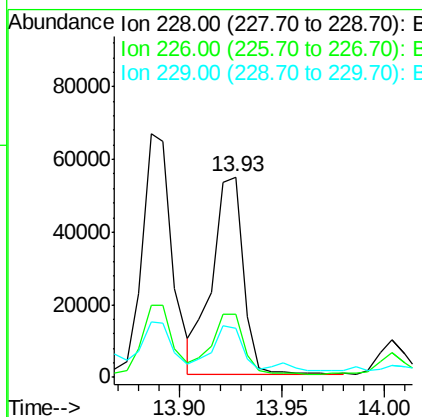
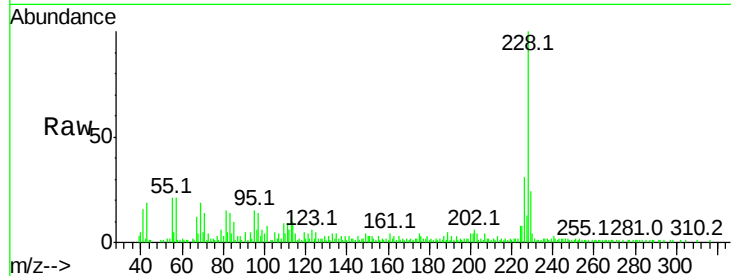
#82  
Chrysene  
Concen: 4.462 ng/ml  
RT: 13.93 min Scan# 2013  
Delta R.T. -0.00 min  
Lab File: BF097929.D  
Acq: 22 Aug 2017 2:21

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-081817

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 58403 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.4  | 24.9  | 37.3  |
| 229       | 24.3  | 15.8  | 23.6  |

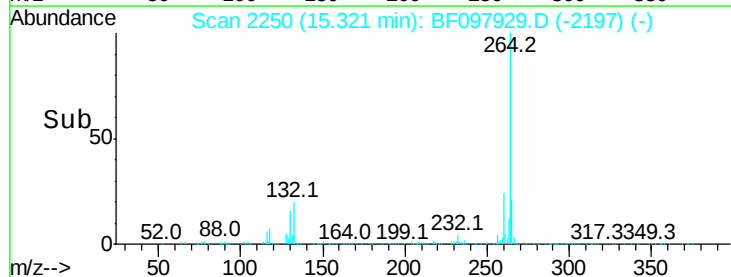
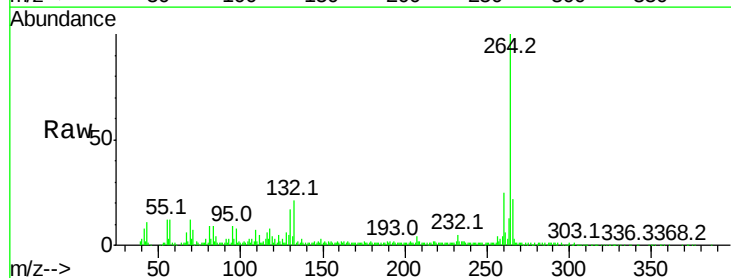
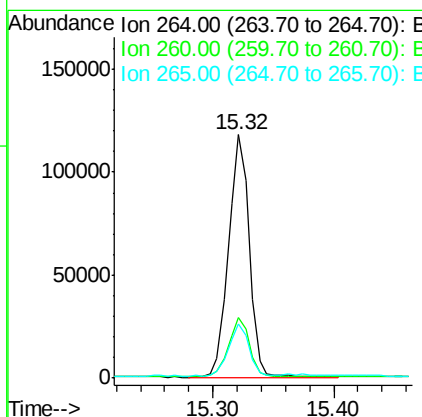
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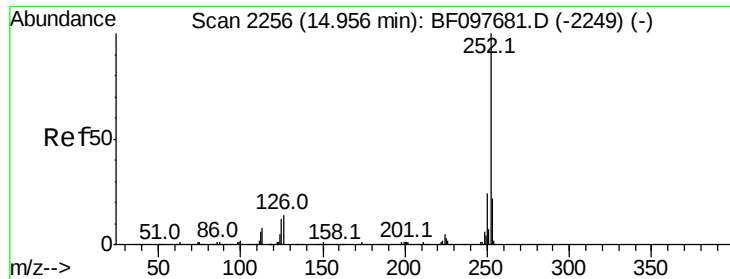
Sohil  
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.32 min Scan# 2250  
Delta R.T. 0.01 min  
Lab File: BF097929.D  
Acq: 22 Aug 2017 2:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 140214 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.9  | 19.5  | 29.3   |
| 265       | 22.1  | 17.2  | 25.8   |





#87

Benzo(b)fluoranthene

Concen: 5.900 ng/mL

RT: 14.92 min Scan# 2181

Delta R.T. 0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA\_F

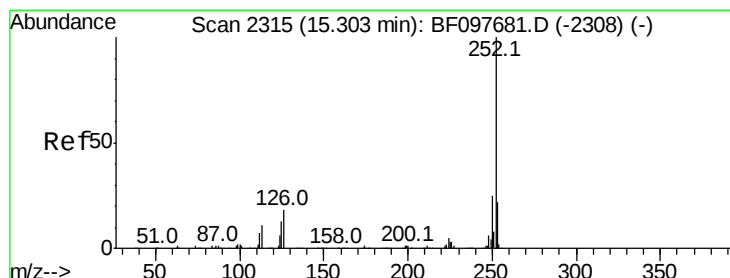
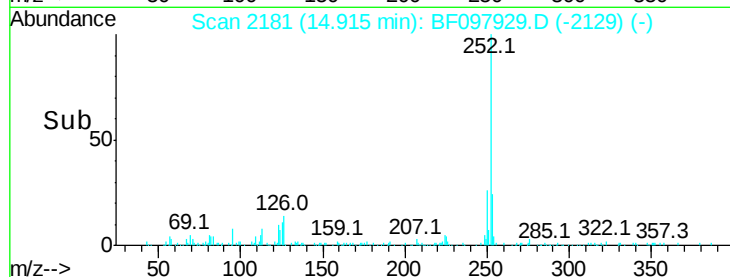
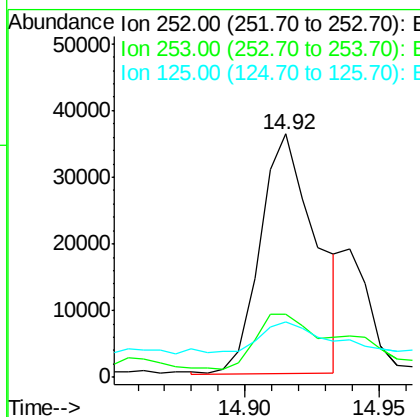
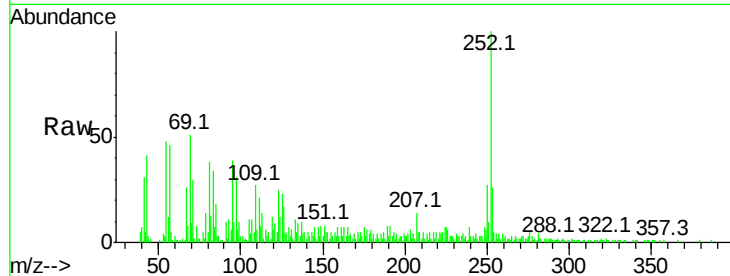
ClientSampleID :

HR-06-081817

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 52143 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.0  | 18.1  | 27.1  |
| 125       | 22.7  | 9.8   | 14.8# |

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#89

Benzo(a)pyrene

Concen: 4.382 ng/mL

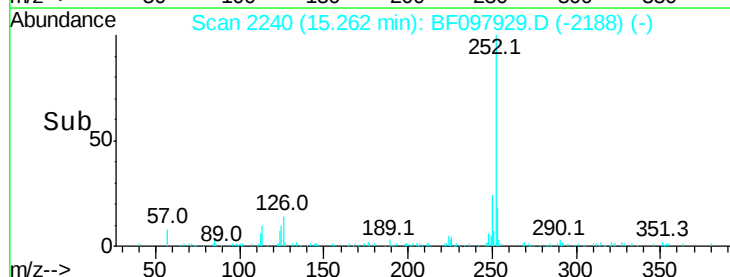
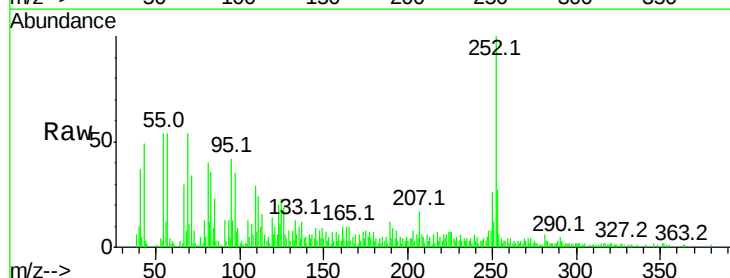
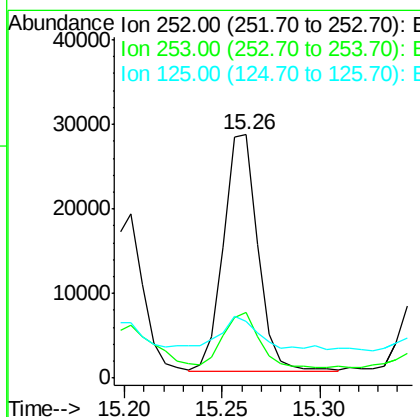
RT: 15.26 min Scan# 2240

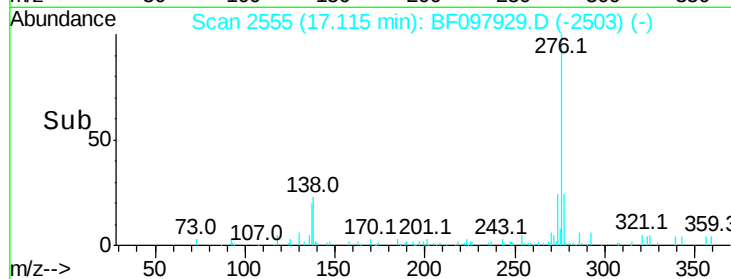
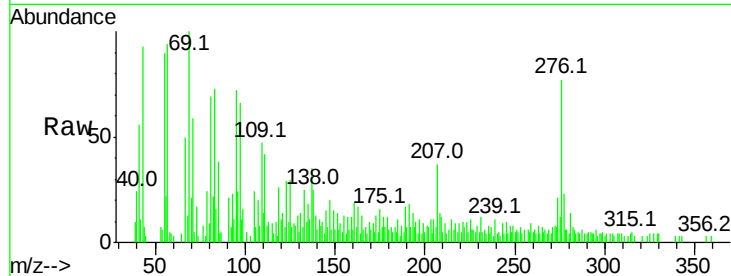
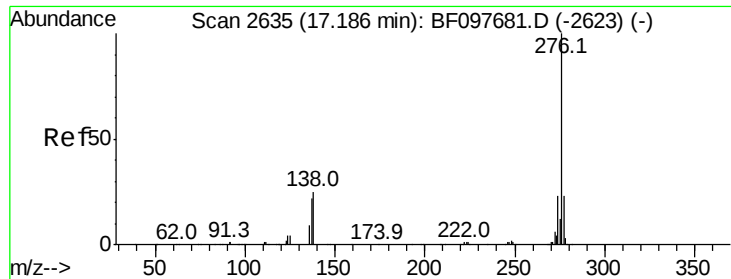
Delta R.T. 0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 34286 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.0  | 17.5  | 26.3# |
| 125       | 23.3  | 11.0  | 16.4# |





#91

Benzo(a,h,i)perylene

Concen: 2.601 ng

RT: 17.12 min Scan# 2555

Delta R.T. 0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA\_F

ClientSampled :

HR-06-081817

Tot Ion:276 Resp: 17289

Ion Ratio Lower Upper

276 100

277 29.6 18.6 28.0#

138 32.7 25.4 38.0

Manual Integrations  
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Sohil

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