

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053117\  
 Data File : BF095568.D  
 Acq On : 31 May 2017 17:27  
 Operator : SJ/MA  
 Sample : I3329-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-3(0-3)

Manual Integrations  
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 6/1/2017 2:19:58 PM

Quant Time: Jun 01 05:07:30 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 01 04:09:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.55  | 152  | 112346   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 9.58  | 136  | 467026   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 12.41 | 164  | 227105   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 14.81 | 188  | 357327   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 18.51 | 240  | 227311   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 20.18 | 264  | 209993   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 728745   | 108.15 | ng    | 0.00     |
| 7) Phenol-d6                | 7.10  | 99   | 925342   | 114.45 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.46  | 82   | 545522   | 73.66  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 13.71 | 330  | 189718   | 102.00 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 11.36 | 172  | 951347   | 60.29  | ng    | 0.00     |
| 78) Terphenyl-d14           | 17.16 | 244  | 680460   | 65.93  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 48) Acenaphthylene          | 12.18 | 152  | 90560    | 3.74   | ng    | 99       |
| 49) Dimethylphthalate       | 12.05 | 163  | 382845   | 20.53  | ng    | 99       |
| 57) Fluorene                | 13.31 | 166  | 39232    | 2.26   | ng    | 94       |
| 70) Phenanthrene            | 14.85 | 178  | 530896   | 25.86  | ng    | 97       |
| 71) Anthracene              | 14.94 | 178  | 135864   | 6.48   | ng    | 97       |
| 72) Carbazole               | 15.24 | 167  | 47678    | 2.50   | ng    | 98       |
| 74) Fluoranthene            | 16.61 | 202  | 823595   | 39.11  | ng    | 99       |
| 77) Pyrene                  | 16.91 | 202  | 770194   | 45.30  | ng    | 98       |
| 80) Benzo(a)anthracene      | 18.49 | 228  | 307658   | 23.26  | ng    | 95       |
| 82) Chrysene                | 18.54 | 228  | 284460   | 22.24  | ng    | 100      |
| 85) Indeno(1,2,3-cd)pyrene  | 21.42 | 276  | 161418   | 15.54  | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 19.77 | 252  | 342580m  | 26.40  | ng    |          |
| 88) Benzo(k)fluoranthene    | 19.80 | 252  | 114969m  | 9.19   | ng    |          |
| 89) Benzo(a)pyrene          | 20.12 | 252  | 265501   | 22.17  | ng    | 99       |
| 90) Dibenzo(a,h)anthracene  | 21.42 | 278  | 39031m   | 3.95   | ng    |          |
| 91) Benzo(g,h,i)perylene    | 21.78 | 276  | 149532   | 15.41  | ng    | 98       |

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

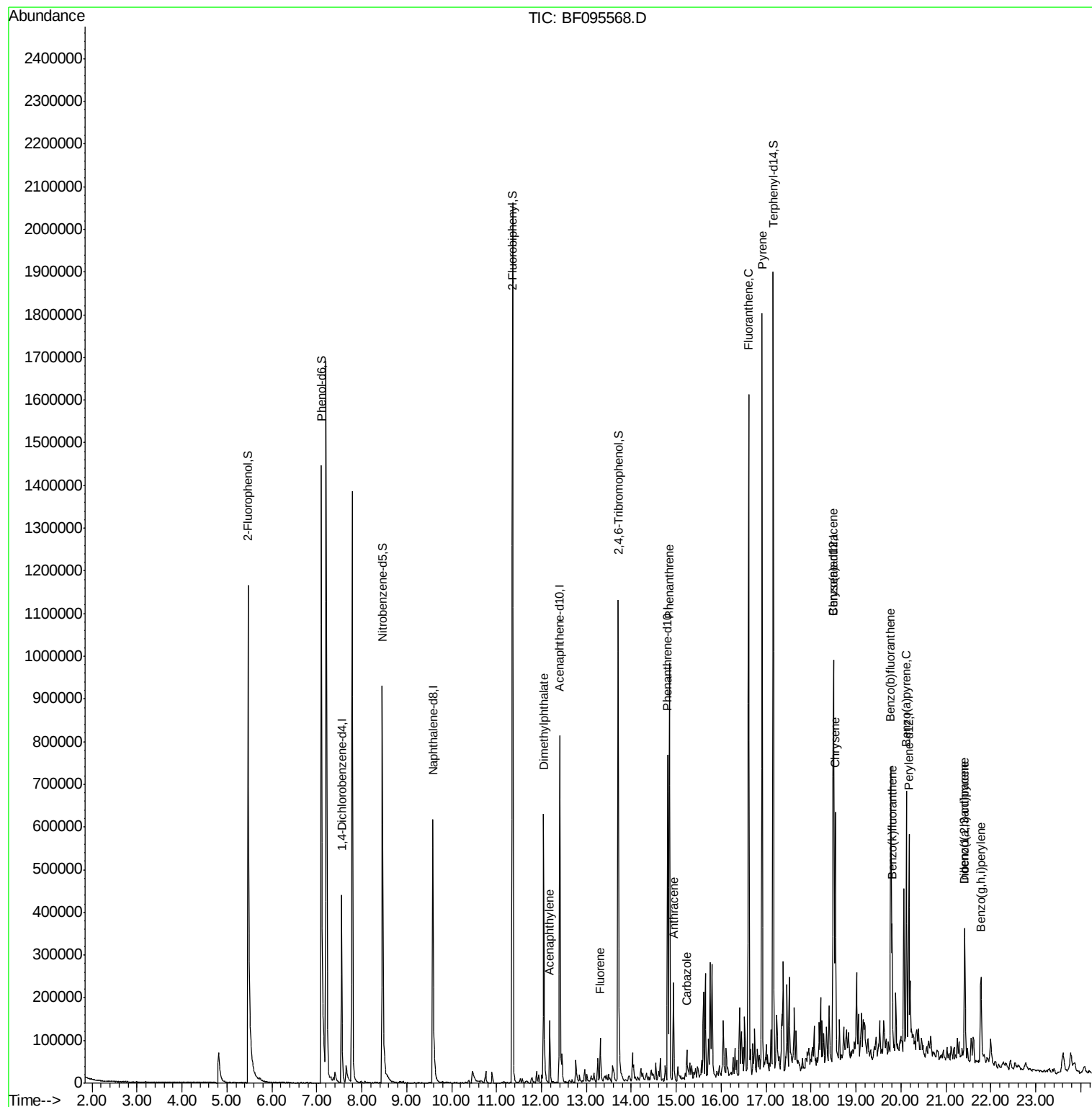
Data Path : Z:\HPCHEM1\BNA F\DATA\BF053117\  
Data File : BF095568.D  
Acq On : 31 May 2017 17:27  
Operator : SJ/MA  
Sample : I3329-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
B-3(0-3)

Manual Integrations  
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Quant Time: Jun 01 05:07:30 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 01 04:09:22 2017  
Response via : Initial Calibration





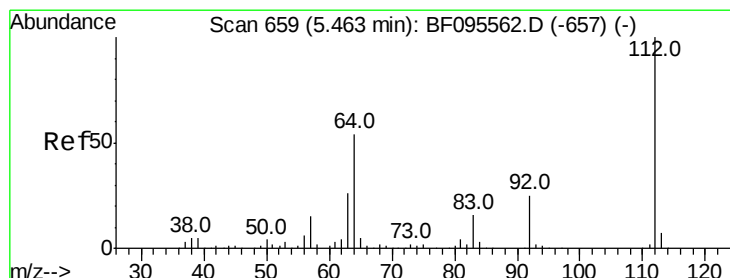
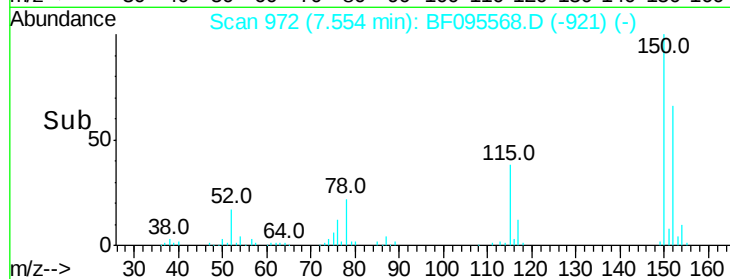
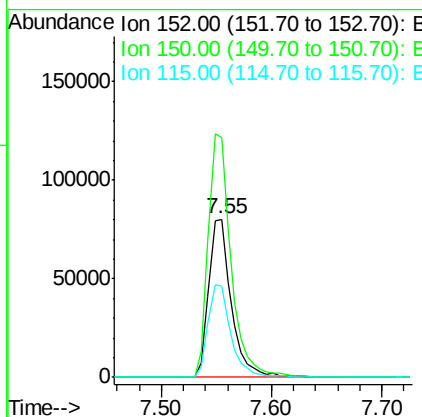
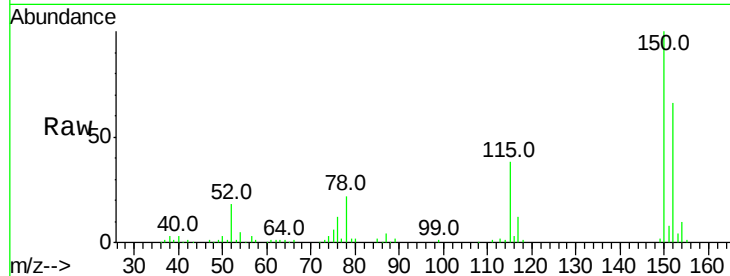
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.55 min Scan# 972  
 Delta R.T. -0.00 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.2 | 126.2 | 189.2 |
| 115     | 57.7  | 52.2  | 78.2  |

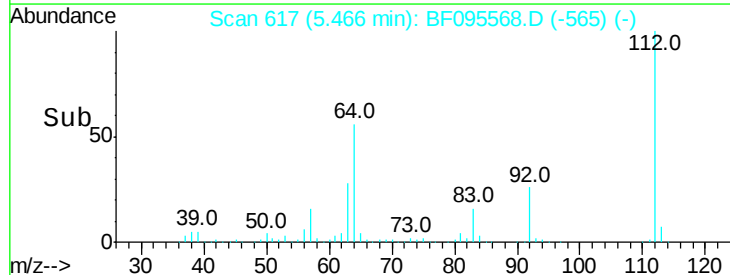
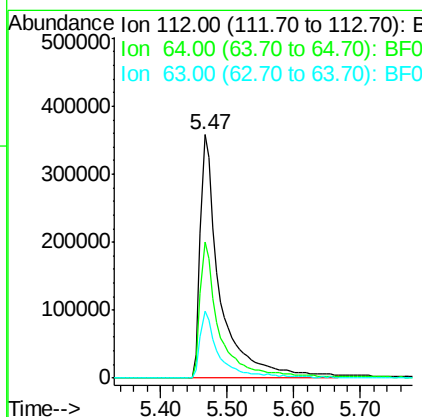
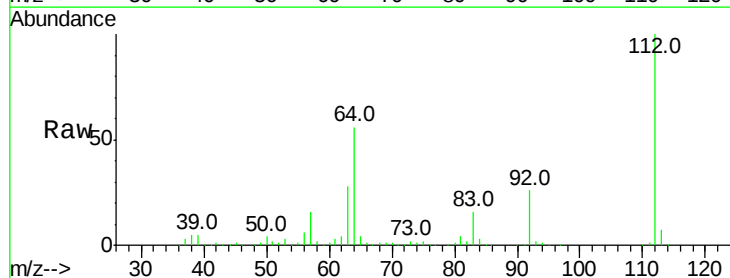
Manual Integrations  
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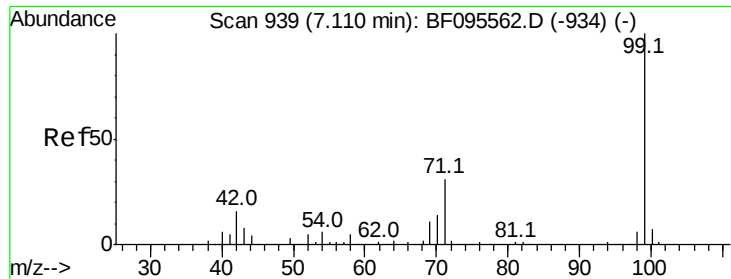
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#5  
 2-Fluorophenol  
 Concen: 108.15 ng  
 RT: 5.47 min Scan# 617  
 Delta R.T. 0.00 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.9  | 46.0  | 69.0  |
| 63      | 27.5  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 114.45 ng

RT: 7.10 min Scan# 895

Delta R.T. -0.01 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

Instrument :

BNA\_F

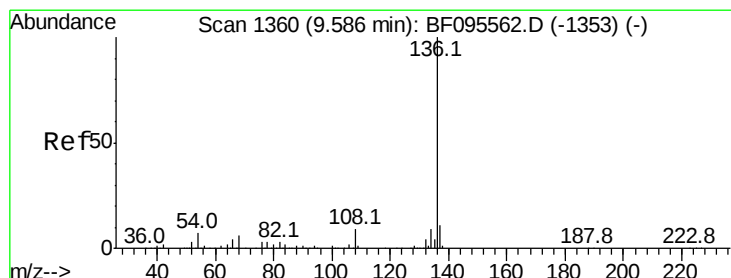
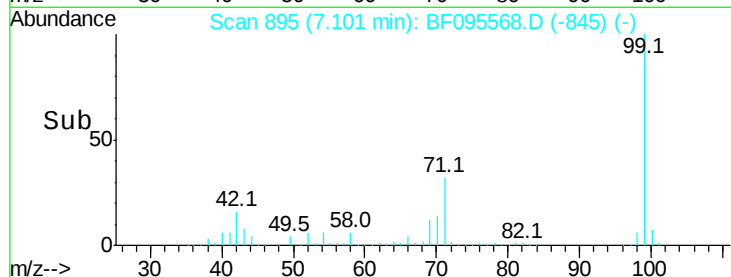
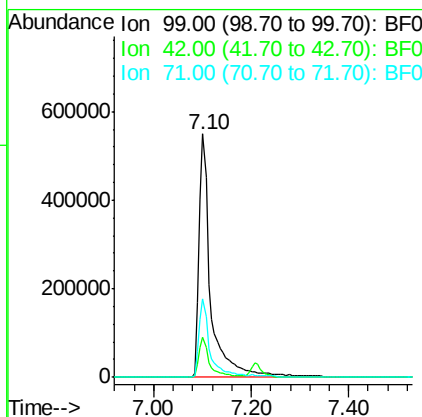
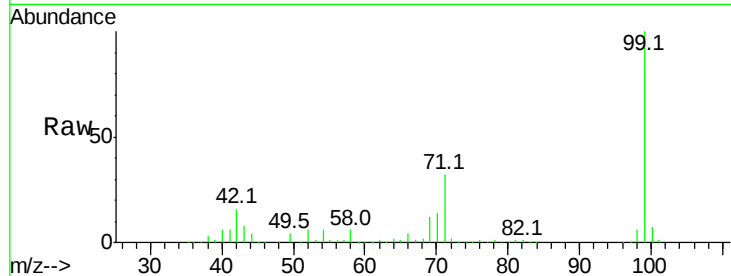
ClientSampleId :

B-3(0-3)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 925342 |       |       |
| 42      | 16.4 | 13.5  | 20.3   |       |       |
| 71      | 32.3 | 24.5  | 36.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

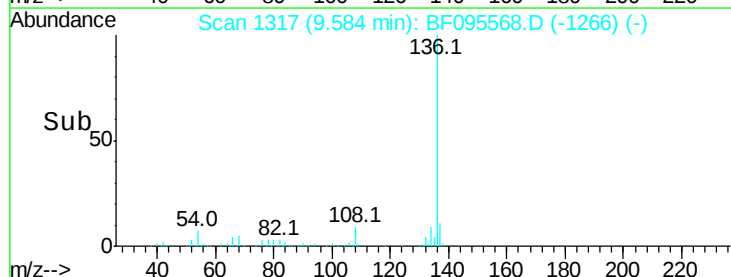
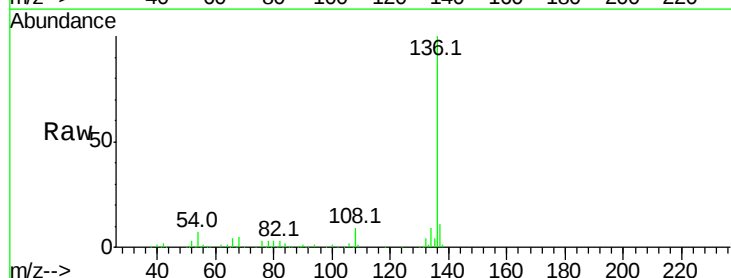
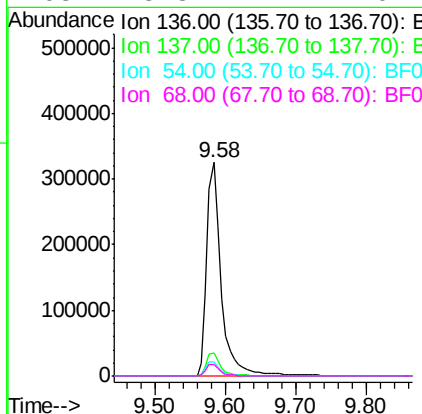
RT: 9.58 min Scan# 1317

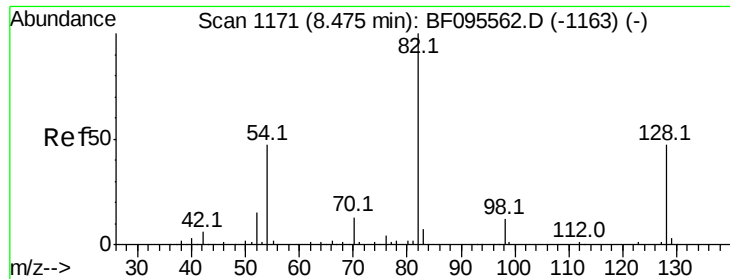
Delta R.T. -0.00 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 467026 |       |       |
| 137     | 10.6 | 8.5   | 12.7   |       |       |
| 54      | 6.8  | 4.9   | 7.3    |       |       |
| 68      | 5.3  | 4.1   | 6.1    |       |       |





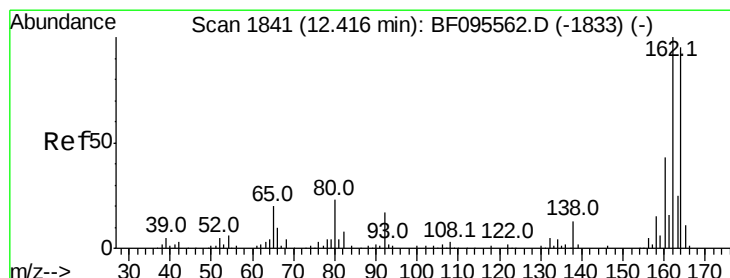
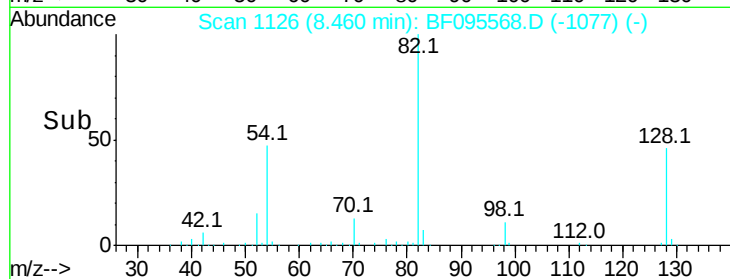
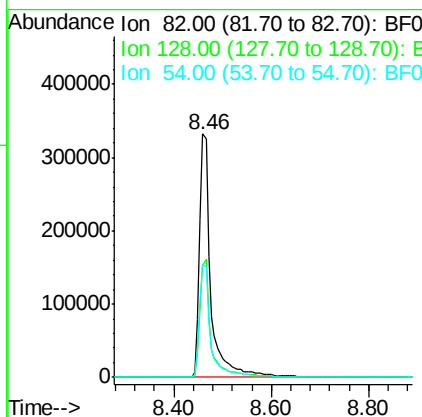
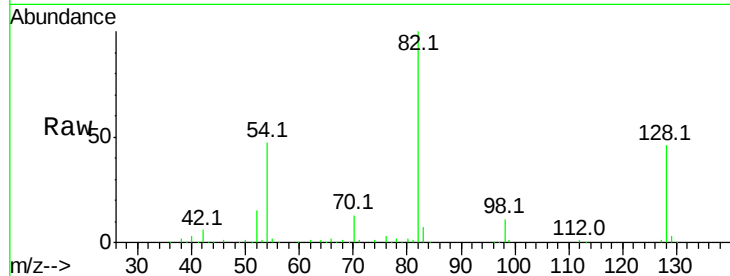
#23  
 Nitrobenzene-d5  
 Concen: 73.66 ng  
 RT: 8.46 min Scan# 1126  
 Delta R.T. -0.01 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

Instrument :  
 BNA\_F  
 ClientSampled :  
 B-3(0-3)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 46.0  | 34.0 | 51.0  |       |
| 54      | 46.6  | 42.2 | 63.2  |       |

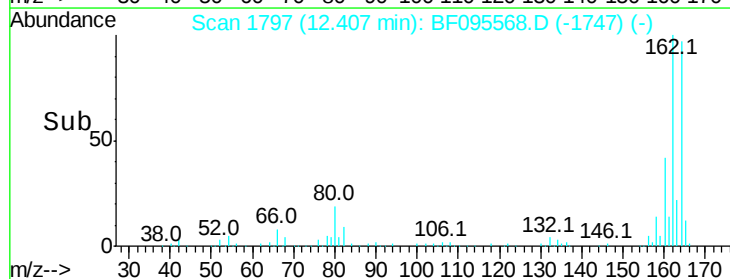
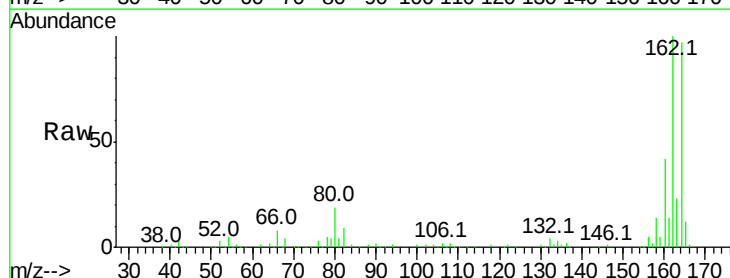
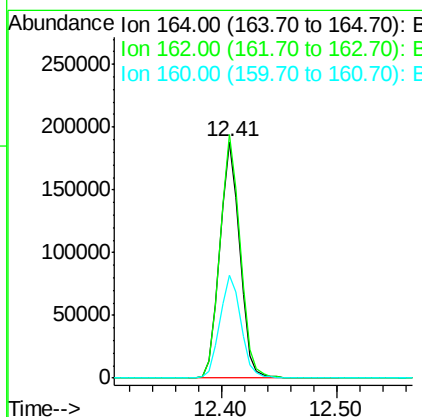
Manual Integrations  
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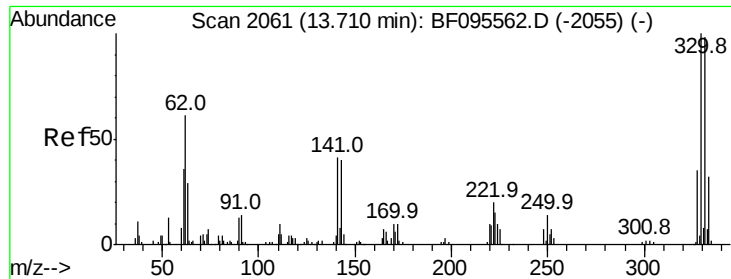
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.41 min Scan# 1797  
 Delta R.T. -0.01 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 103.1 | 82.6 | 123.8 |       |
| 160     | 43.3  | 36.2 | 54.2  |       |





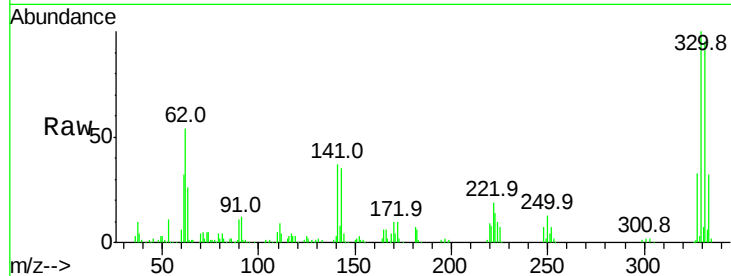
#41  
 2,4,6-Tribromophenol  
 Concen: 102.00 ng  
 RT: 13.71 min Scan# 2018  
 Delta R.T. -0.00 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-3(0-3)

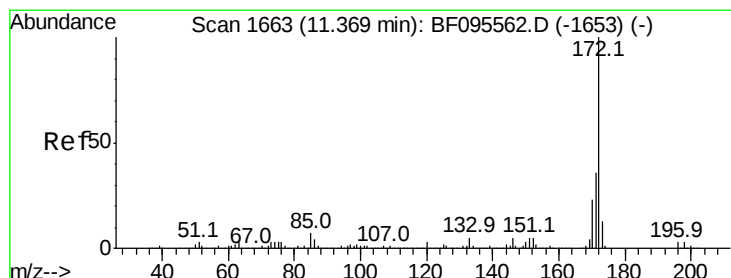
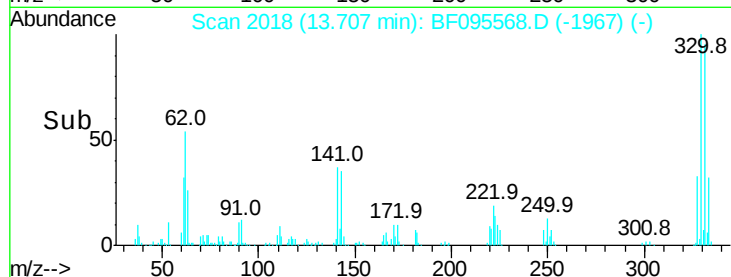
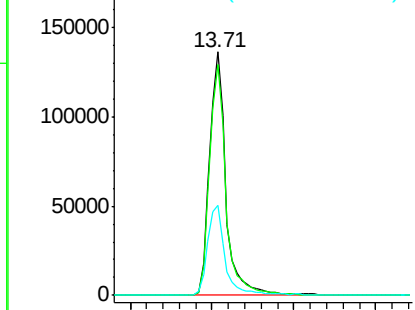
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 189718 |       |       |
| 332     | 95.3  | 76.6   | 115.0 |       |
| 141     | 39.7  | 31.4   | 47.2  |       |

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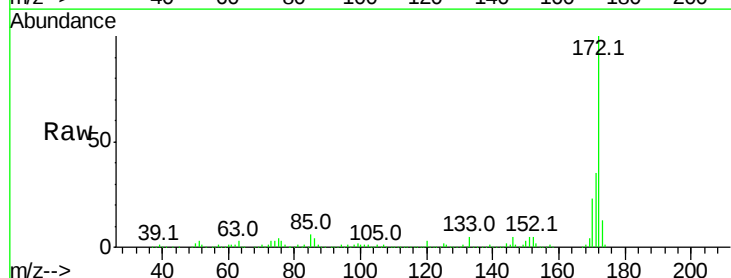


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

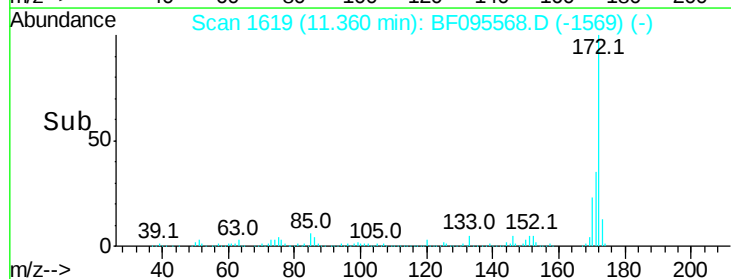
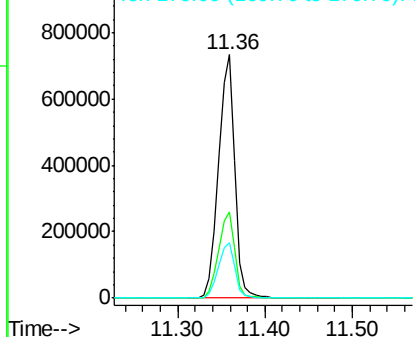


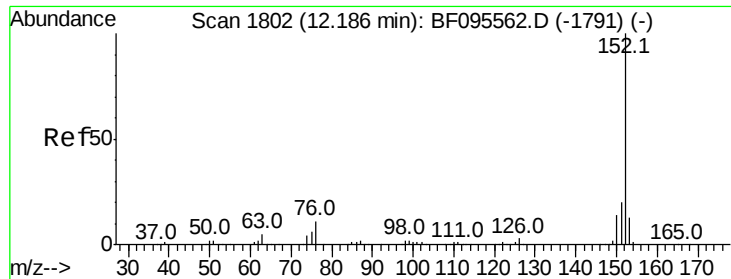
#44  
 2-Fluorobiphenyl  
 Concen: 60.29 ng  
 RT: 11.36 min Scan# 1619  
 Delta R.T. -0.01 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 951347 |       |       |
| 171     | 35.5  | 29.6   | 44.4  |       |
| 170     | 23.0  | 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





#48

Acenaphthylene

Concen: 3.74 ng

RT: 12.18 min Scan# 1759

Delta R.T. -0.00 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

Instrument :

BNA\_F

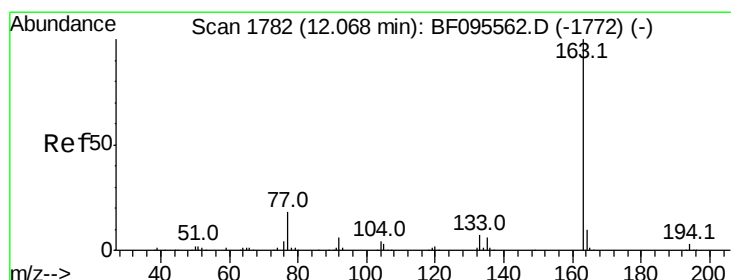
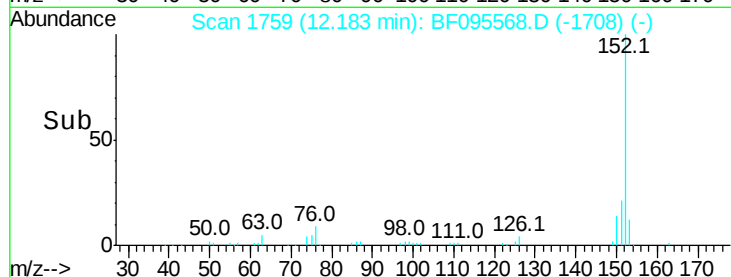
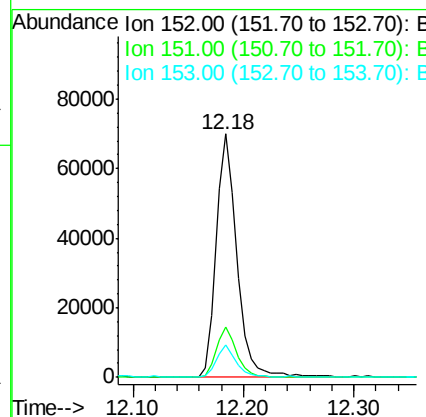
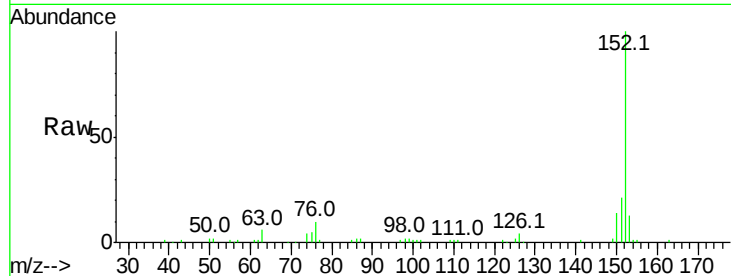
ClientSampleId :

B-3(0-3)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 90560 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.6  | 16.8  | 25.2  |
| 153       | 13.4  | 10.8  | 16.2  |

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#49

Dimethylphthalate

Concen: 20.53 ng

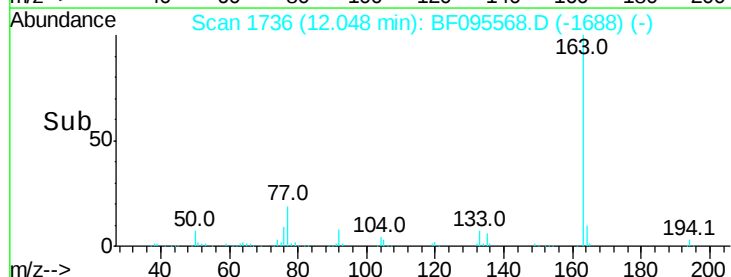
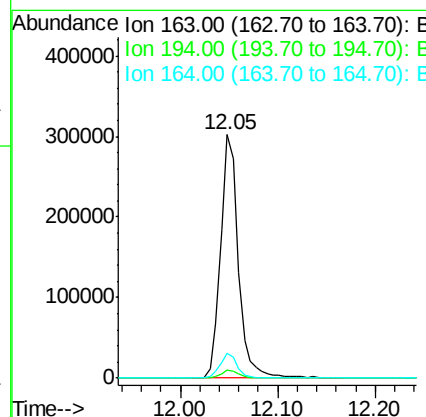
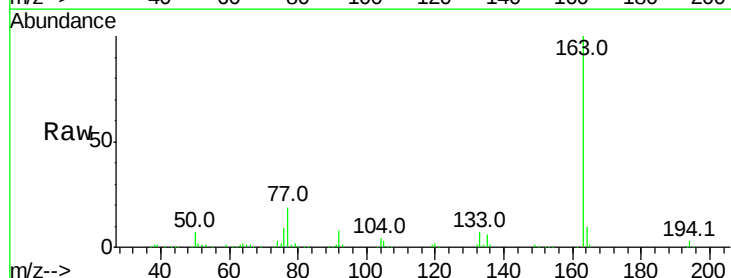
RT: 12.05 min Scan# 1736

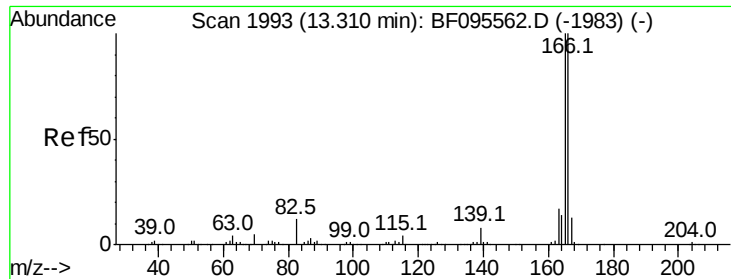
Delta R.T. -0.02 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 382845 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.2   | 2.6   | 4.0    |
| 164       | 10.1  | 8.4   | 12.6   |





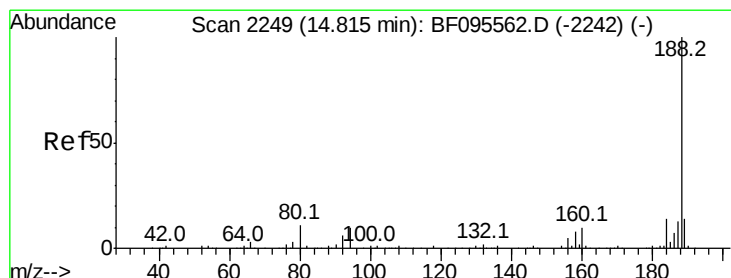
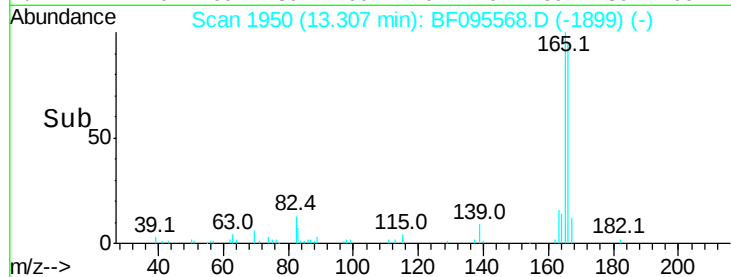
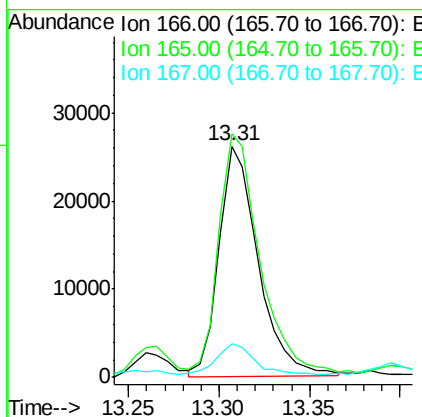
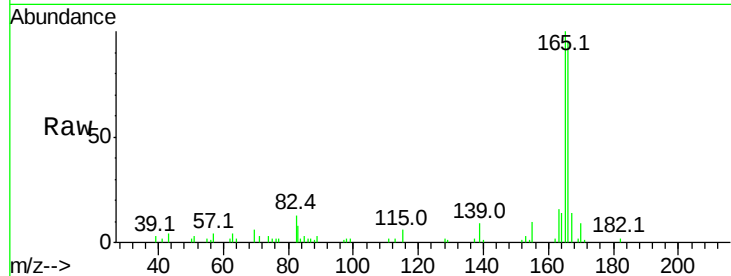
#57  
**Fluorene**  
 Concen: 2.26 ng  
 RT: 13.31 min Scan# 1950  
 Delta R.T. -0.00 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 105.3 | 78.8  | 118.2 |
| 167     | 14.5  | 10.6  | 16.0  |

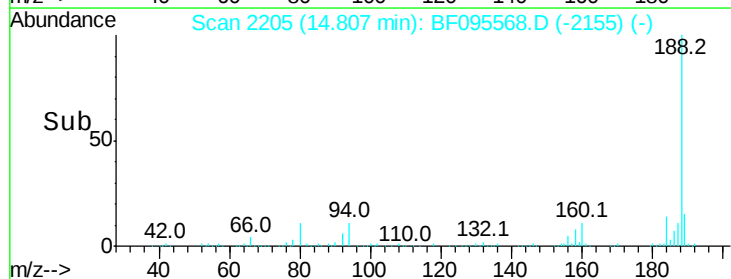
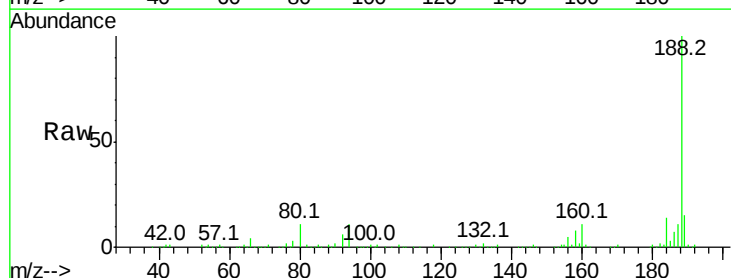
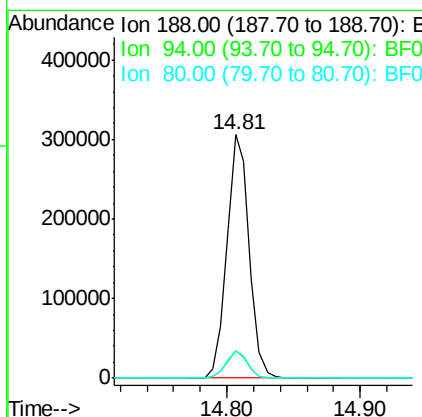
Manual Integrations  
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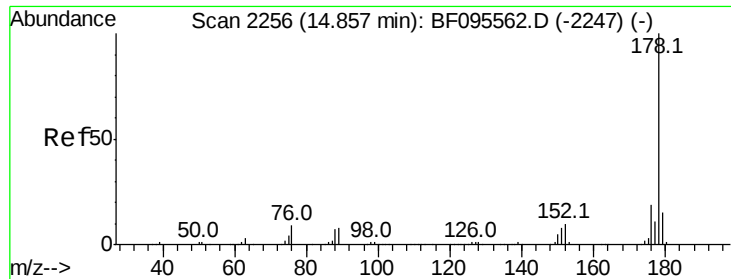
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#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 14.81 min Scan# 2205  
 Delta R.T. -0.01 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.1  | 9.4   | 14.2  |
| 80      | 11.0  | 10.2  | 15.2  |





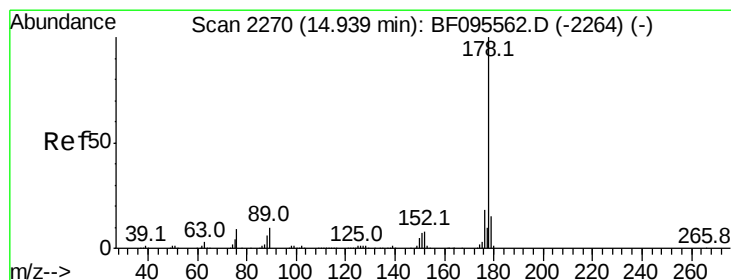
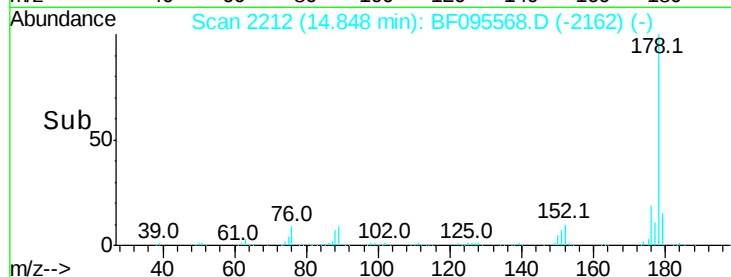
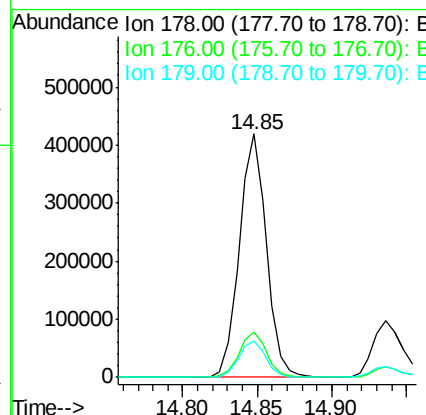
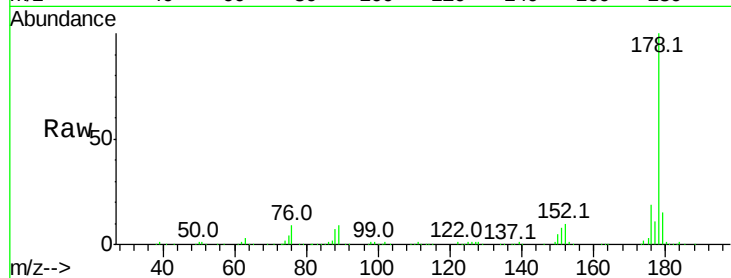
#70  
Phenanthrene  
Concen: 25.86 ng  
RT: 14.85 min Scan# 2212  
Delta R.T. -0.01 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

Instrument :  
BNA\_F  
ClientSampled :  
B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 16.2  | 24.4  |
| 179     | 15.1  | 12.6  | 19.0  |

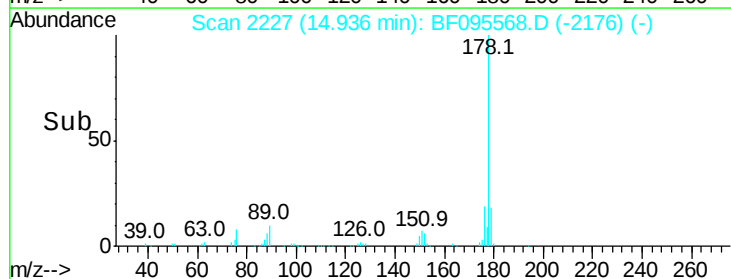
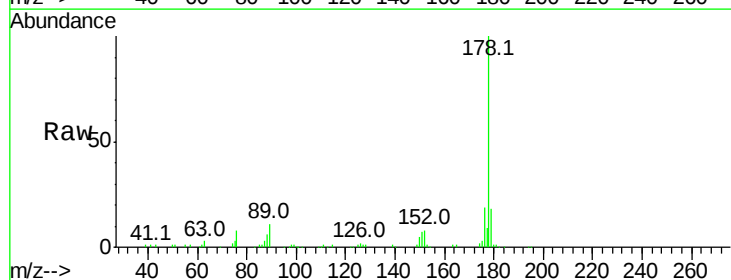
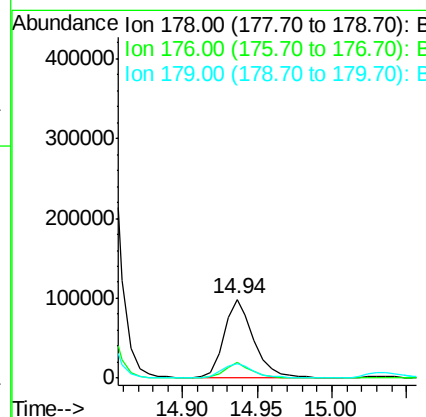
Manual Integrations  
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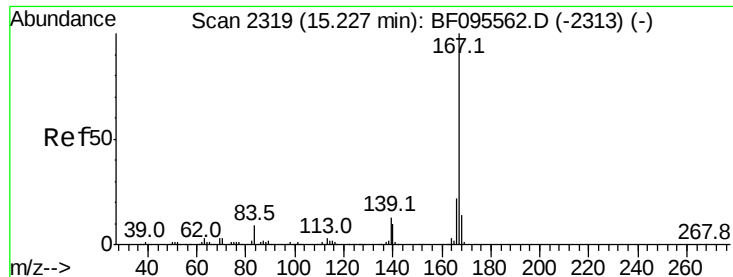
mohammad  
6/1/2017 2:19:58 PM



#71  
Anthracene  
Concen: 6.48 ng  
RT: 14.94 min Scan# 2227  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.8  | 23.8  |
| 179     | 18.2  | 12.7  | 19.1  |





#72

Carbazole

Concen: 2.50 ng

RT: 15.24 min Scan# 2278

Delta R.T. 0.01 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

Instrument :

BNA\_F

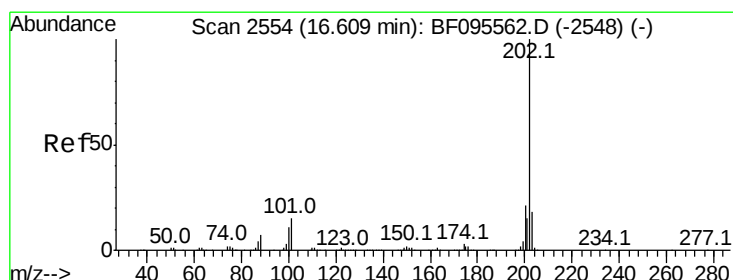
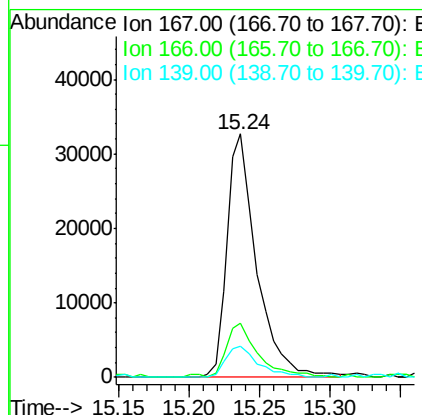
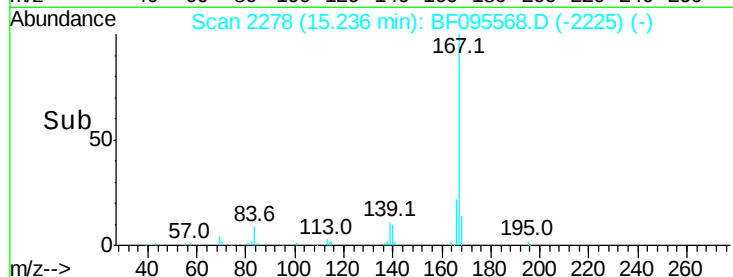
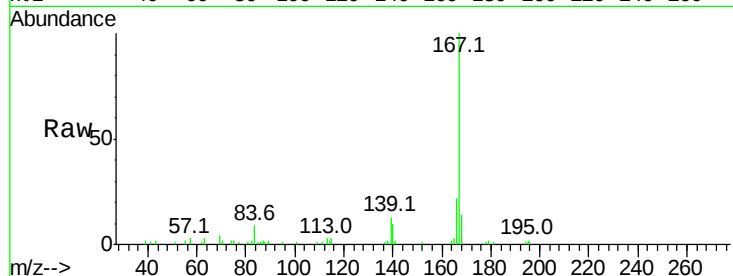
ClientSampleId :

B-3(0-3)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 47678 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.5  | 18.1  | 27.1  |
| 139       | 12.7  | 11.7  | 17.5  |

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#74

Fluoranthene

Concen: 39.11 ng

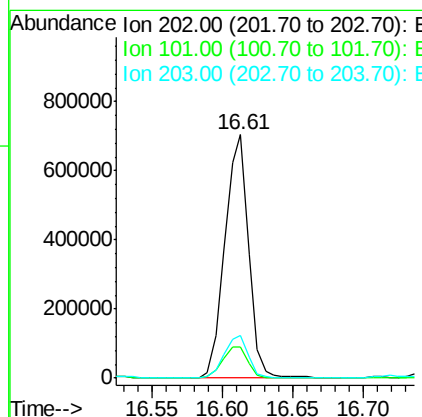
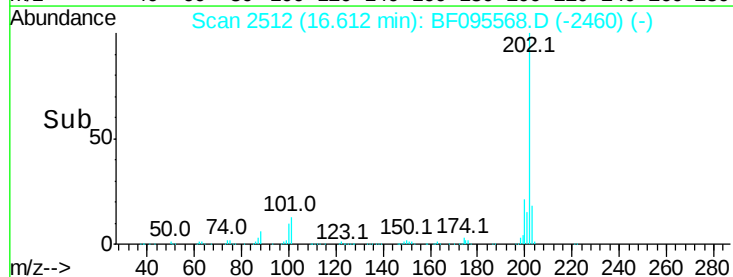
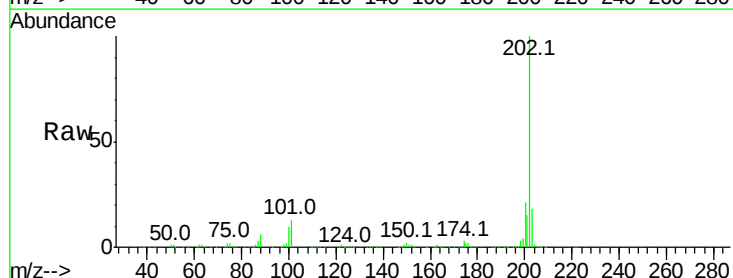
RT: 16.61 min Scan# 2512

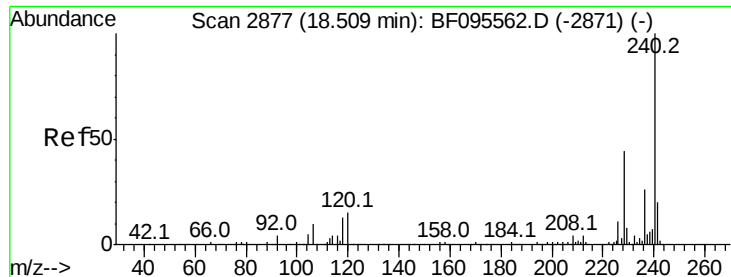
Delta R.T. 0.00 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 823595 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.8  | 0.0   | 33.2   |
| 203       | 17.7  | 0.0   | 38.1   |





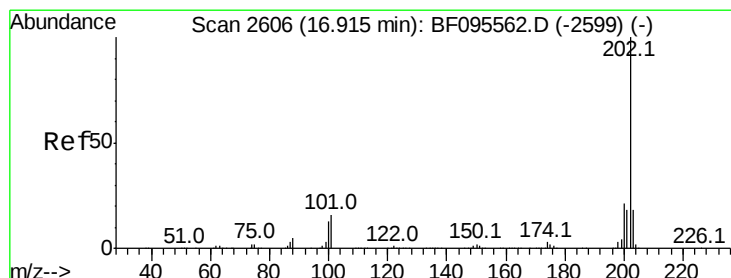
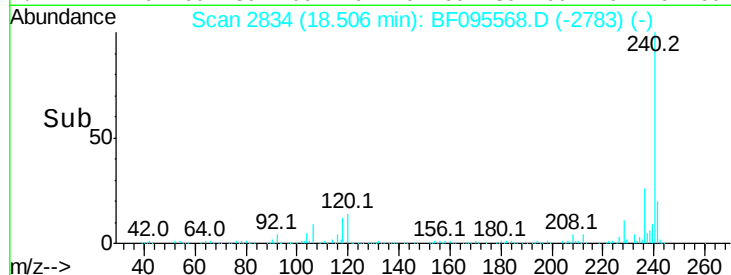
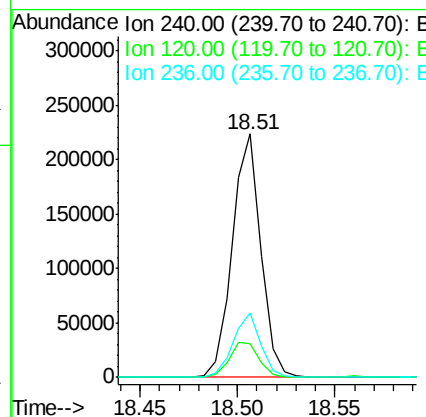
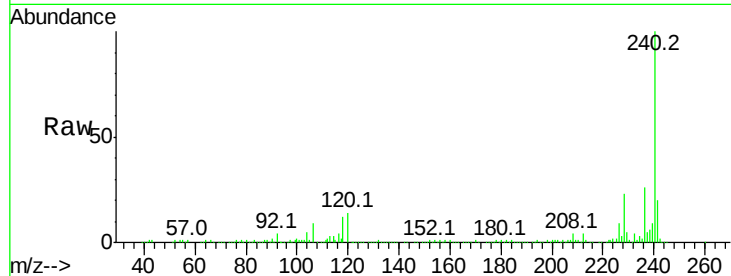
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.51 min Scan# 2834  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

Instrument :  
BNA\_F  
ClientSampleId :  
B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.8  | 5.8   | 8.8#  |
| 236     | 26.5  | 20.5  | 30.7  |

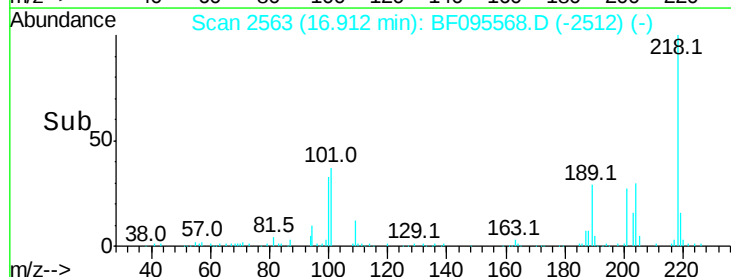
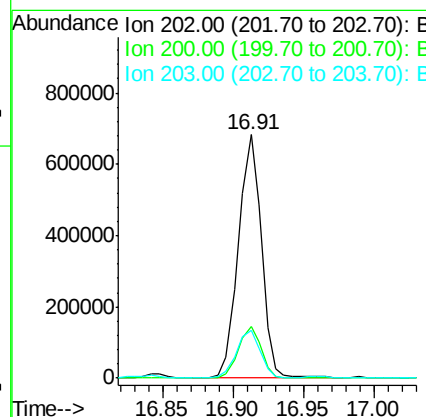
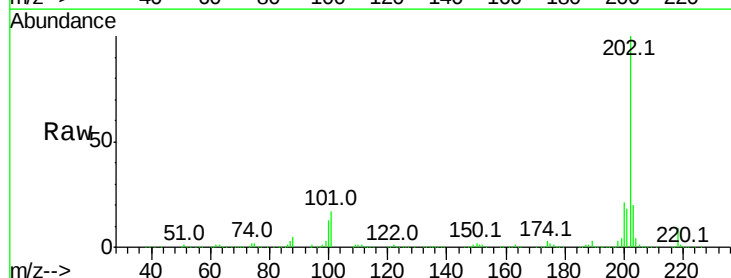
Manual Integrations  
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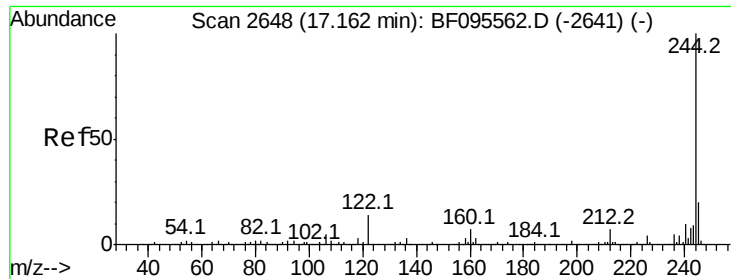
mohammad  
6/1/2017 2:19:58 PM



#77  
Pyrene  
Concen: 45.30 ng  
RT: 16.91 min Scan# 2563  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 17.6  | 26.4  |
| 203     | 19.7  | 14.4  | 21.6  |





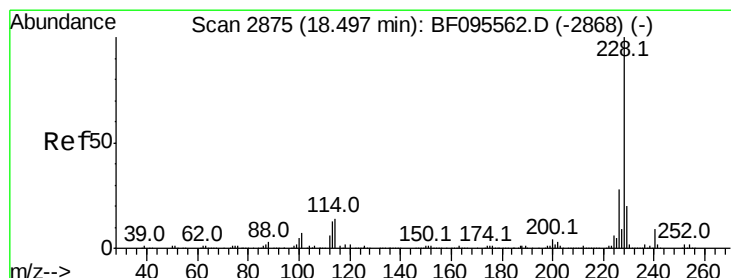
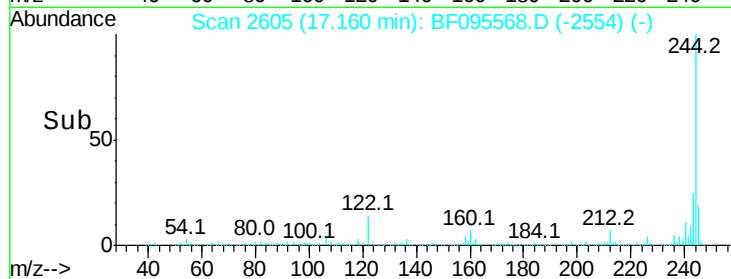
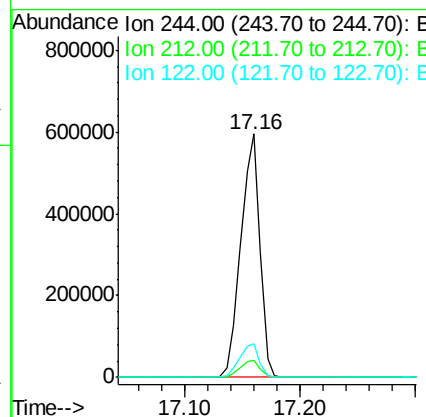
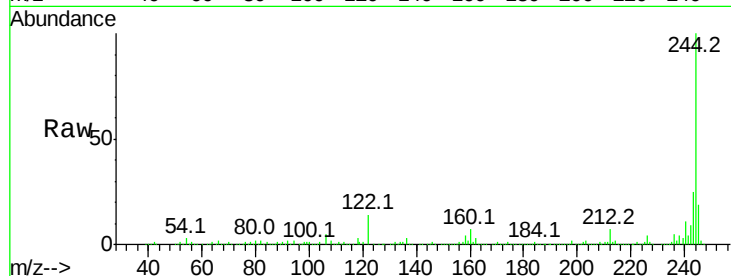
#78  
 Terphenyl-d14  
 Concen: 65.93 ng  
 RT: 17.16 min Scan# 2605  
 Delta R.T. -0.00 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-3(0-3)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 244     | 100   |      |       |       |
| 212     | 7.0   | 6.0  | 9.0   |       |
| 122     | 13.8  | 10.3 | 15.5  |       |

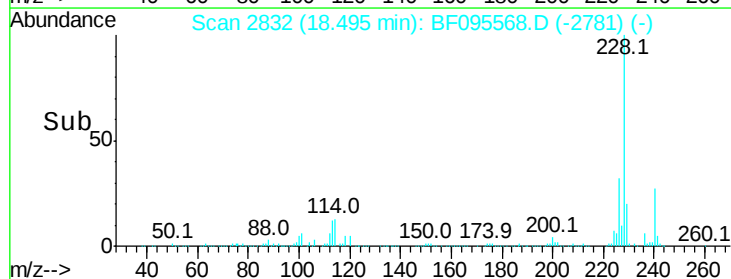
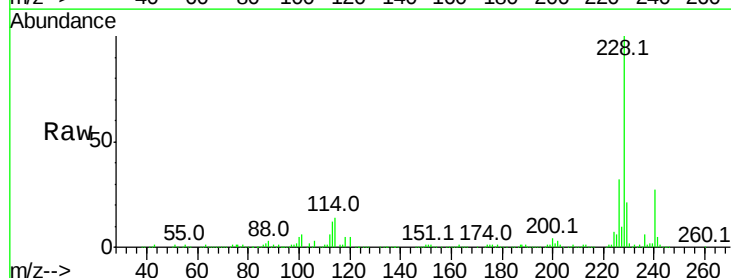
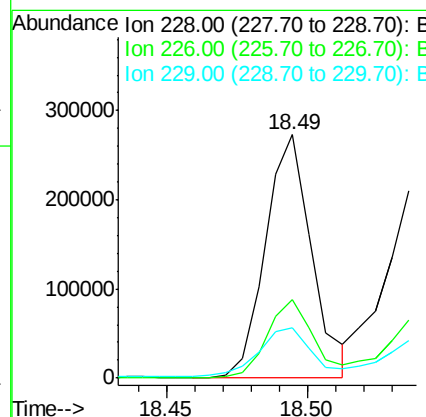
Manual Integrations  
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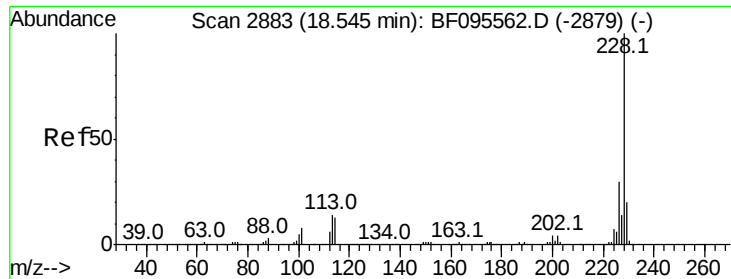
mohammad  
 6/1/2017 2:19:58 PM



#80  
 Benzo(a)anthracene  
 Concen: 23.26 ng  
 RT: 18.49 min Scan# 2832  
 Delta R.T. -0.00 min  
 Lab File: BF095568.D  
 Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 32.0  | 22.6 | 33.8  |       |
| 229     | 20.8  | 16.3 | 24.5  |       |





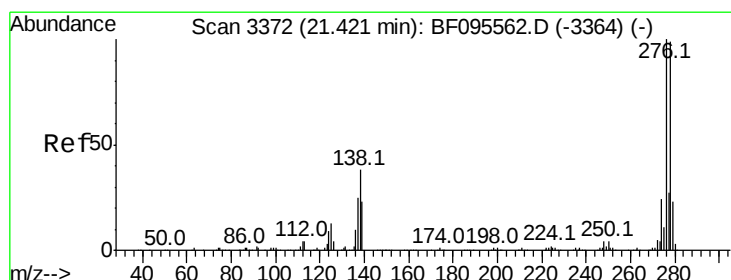
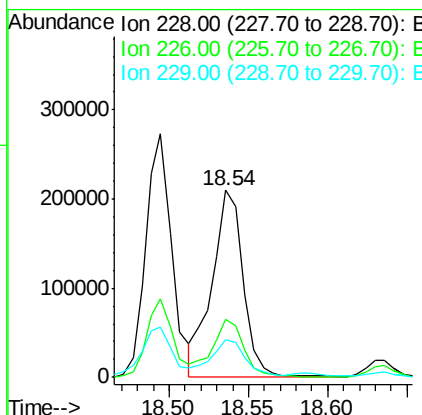
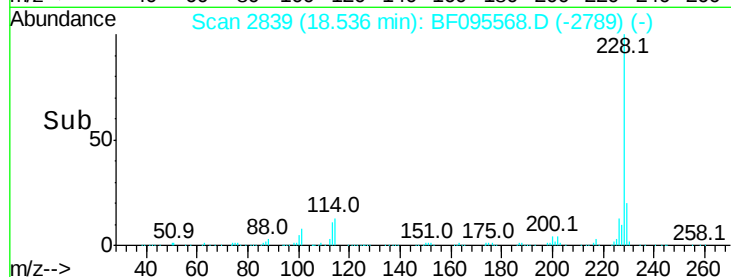
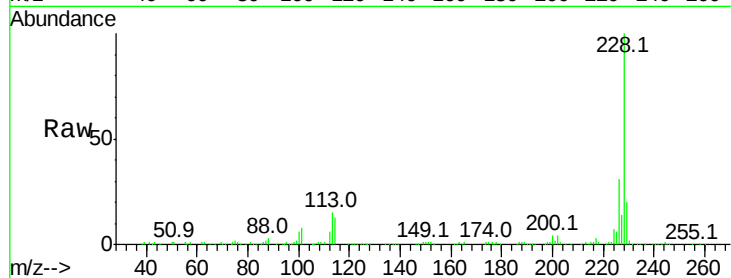
#82  
Chrysene  
Concen: 22.24 ng  
RT: 18.54 min Scan# 2839  
Delta R.T. -0.01 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

Instrument :  
BNA\_F  
ClientSampleId :  
B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 24.9  | 37.3  |
| 229     | 20.1  | 15.8  | 23.6  |

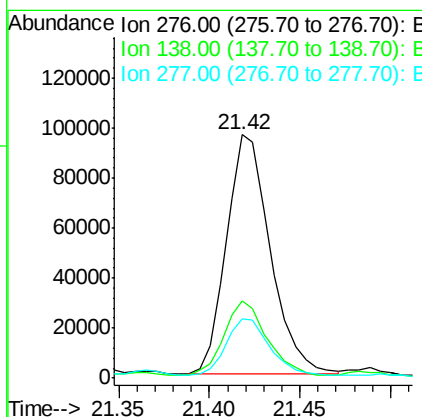
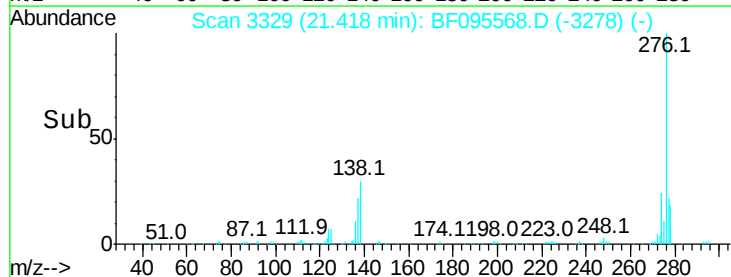
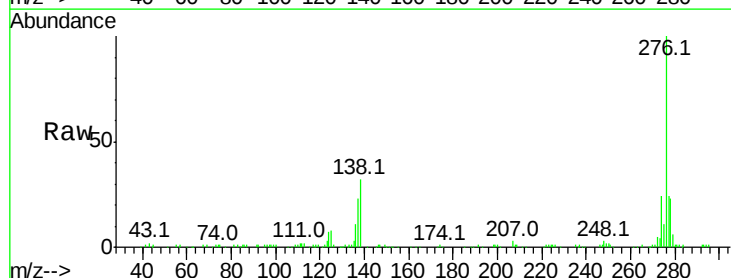
Manual Integrations  
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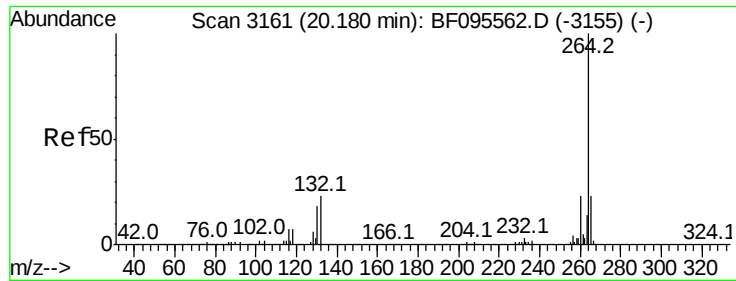
mohammad  
6/1/2017 2:19:58 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 15.54 ng  
RT: 21.42 min Scan# 3329  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.6  | 27.8  | 41.6  |
| 277     | 24.3  | 20.2  | 30.4  |





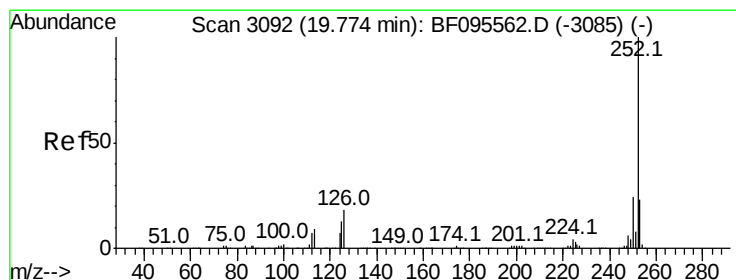
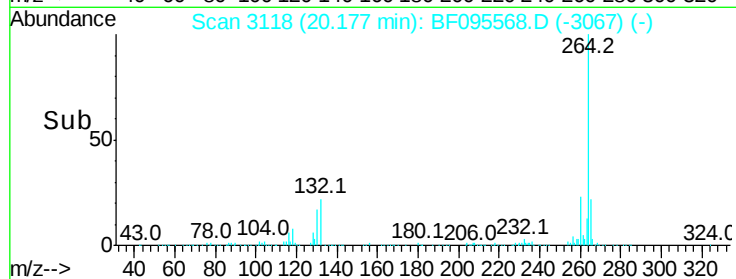
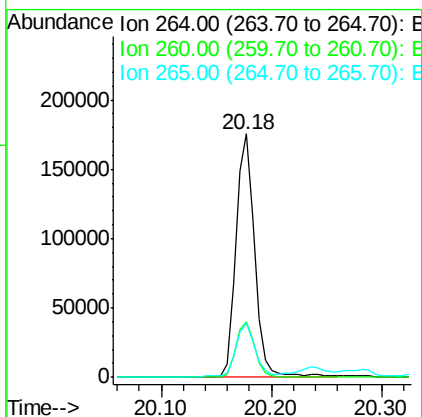
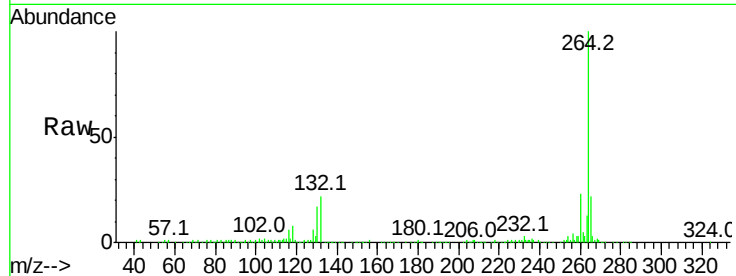
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.18 min Scan# 3118  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

Instrument :  
BNA\_F  
ClientSampleId :  
B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 19.5  | 29.3  |
| 265     | 22.3  | 17.2  | 25.8  |

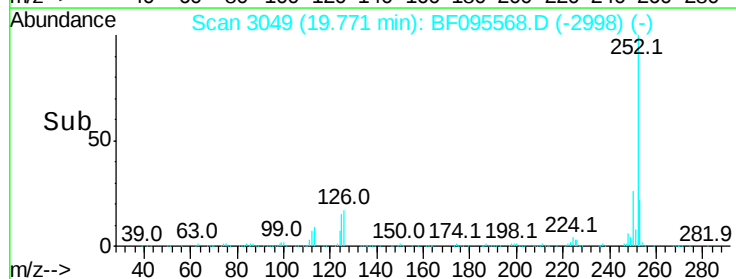
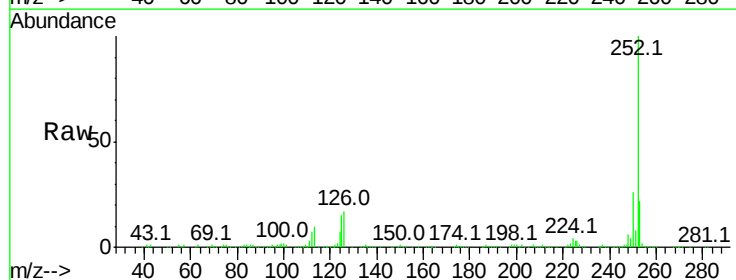
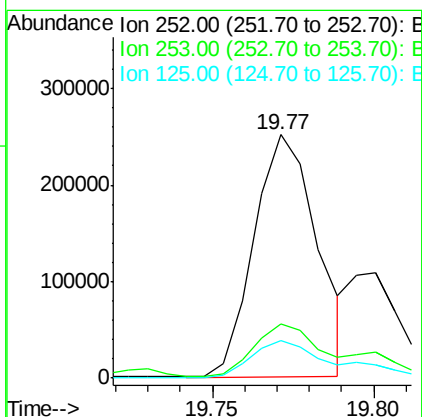
Manual Integrations  
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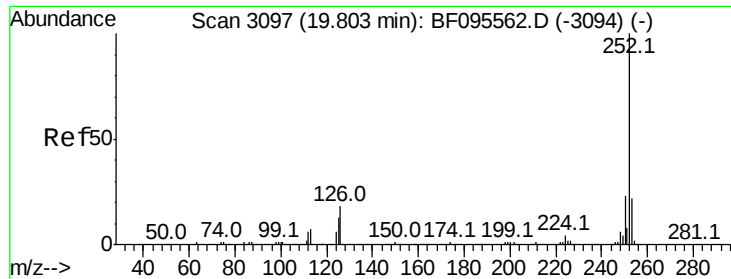
mohammad  
6/1/2017 2:19:58 PM



#87  
Benzo(b)fluoranthene  
Concen: 26.40 ng m  
RT: 19.77 min Scan# 3049  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.1  | 27.1  |
| 125     | 15.3  | 9.8   | 14.8# |





#88

Benzo(k)fluoranthene

Concen: 9.19 ng

RT: 19.80 min Scan# 3054

Delta R.T. -0.00 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

Instrument :

BNA\_F

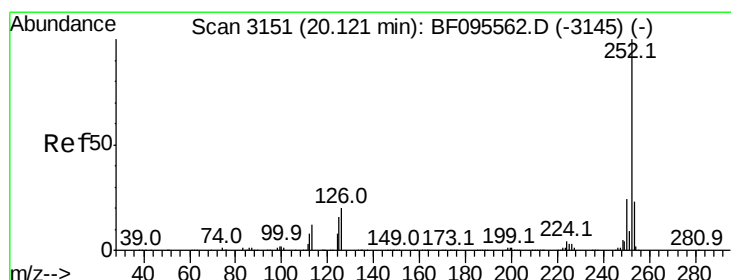
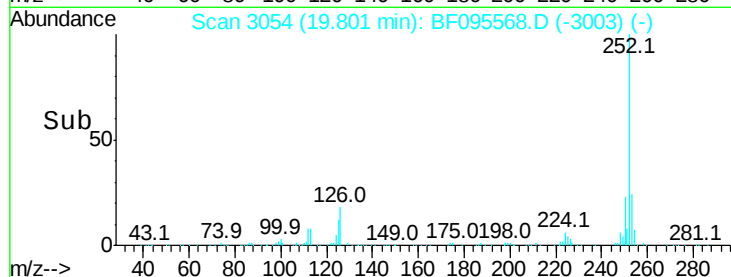
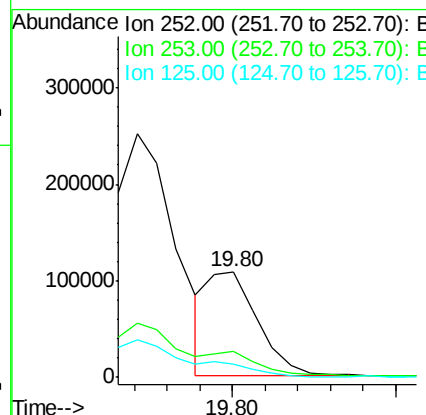
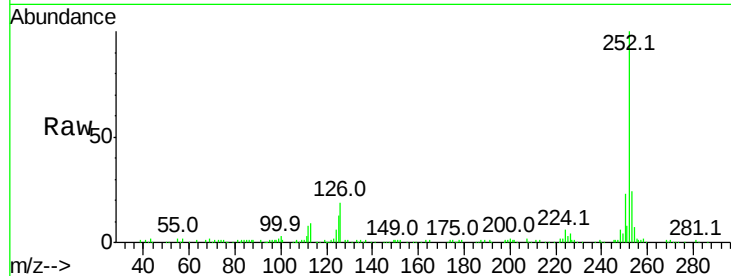
ClientSampleId :

B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 18.4  | 27.6  |
| 125     | 12.9  | 13.1  | 19.7  |

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#89

Benzo(a)pyrene

Concen: 22.17 ng

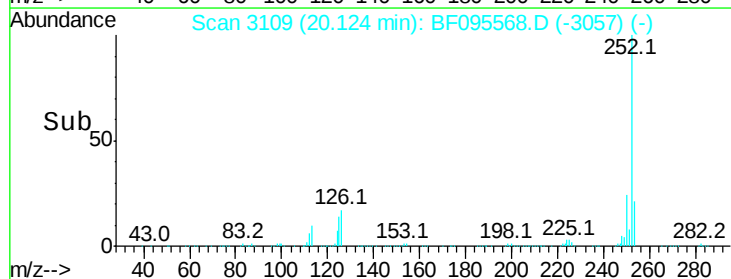
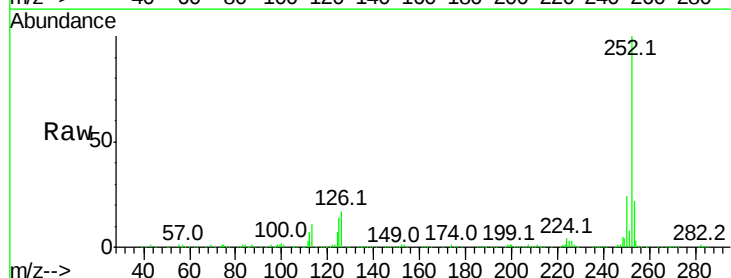
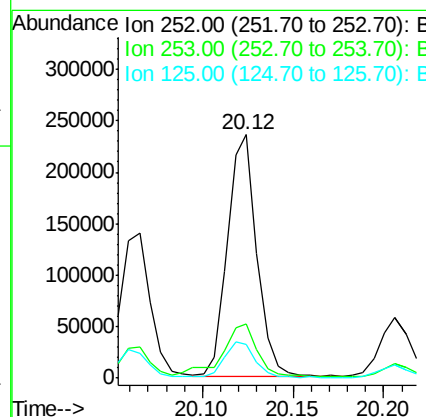
RT: 20.12 min Scan# 3109

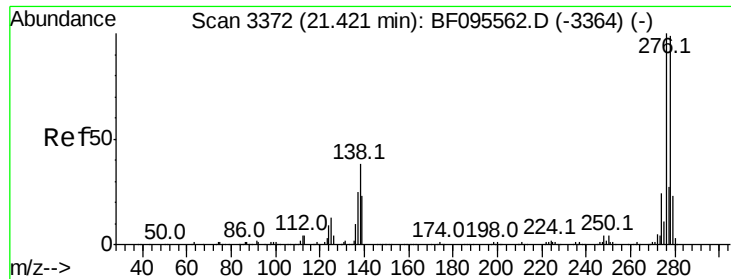
Delta R.T. 0.00 min

Lab File: BF095568.D

Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.5  | 26.3  |
| 125     | 13.8  | 11.0  | 16.4  |





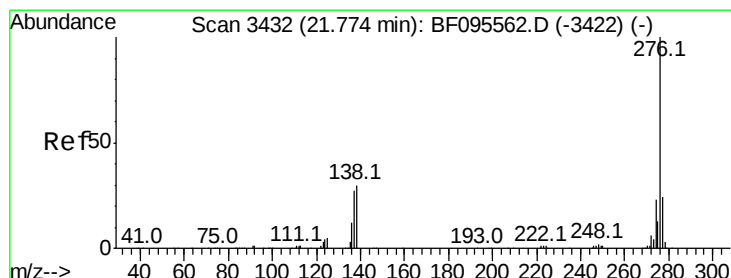
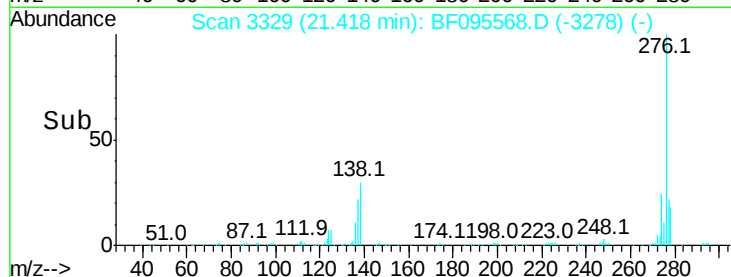
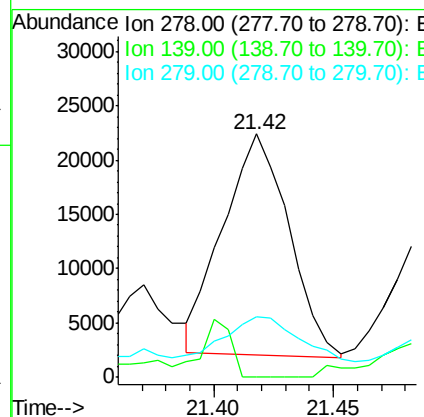
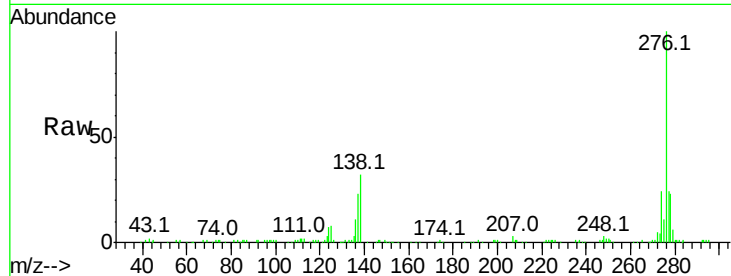
#90  
Dibenzo(a,h)anthracene  
Concen: 3.95 ng/ml  
RT: 21.42 min Scan# 3329  
Delta R.T. -0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

Instrument :  
BNA\_F  
ClientSampled :  
B-3(0-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 16.6  | 24.8# |
| 279     | 25.1  | 19.3  | 28.9  |

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#91  
Benzo(g,h,i)perylene  
Concen: 15.41 ng/ml  
RT: 21.78 min Scan# 3390  
Delta R.T. 0.00 min  
Lab File: BF095568.D  
Acq: 31 May 2017 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.8  | 18.6  | 28.0  |
| 138     | 32.0  | 25.4  | 38.0  |

