

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092817\  
 Data File : BF098933.D  
 Acq On : 29 Sep 2017 3:36  
 Operator : SJ/JU  
 Sample : I5515-01 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-092817

Manual Integrations  
 APPROVED

Sohil  
 9/29/2017 6:04:57 PM

Quant Time: Sep 29 04:06:30 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|---------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.92  | 152  | 114608   | 20.00   | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.20  | 136  | 402097   | 20.00   | ng    | 0.00       |
| 38) Acenaphthene-d10        | 9.96  | 164  | 141638   | 20.00   | ng    | 0.00       |
| 63) Phenanthrene-d10        | 11.45 | 188  | 244251   | 20.00   | ng    | 0.00       |
| 75) Chrysene-d12            | 14.09 | 240  | 222627   | 20.00   | ng    | 0.00       |
| 86) Perylene-d12            | 15.59 | 264  | 169075   | 20.00   | ng    | 0.01       |
| System Monitoring Compounds |       |      |          |         |       |            |
| 5) 2-Fluorophenol           | 5.53  | 112  | 168979   | 23.47   | ng    | -0.01      |
| 7) Phenol-d6                | 6.53  | 99   | 186550   | 21.00   | ng    | -0.01      |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 101277   | 16.15   | ng    | -0.01      |
| 41) 2,4,6-Tribromophenol    | 10.74 | 330  | 22324    | 19.26   | ng    | -0.01      |
| 44) 2-Fluorobiphenyl        | 9.27  | 172  | 168968   | 19.92   | ng    | -0.01      |
| 78) Terphenyl-d14           | 13.03 | 244  | 151164   | 15.44   | ng    | 0.00       |
| Target Compounds            |       |      |          |         |       |            |
| 31) Naphthalene             | 8.22  | 128  | 482140   | 25.530  | ng    | Qvalue 100 |
| 37) 2-Methylnaphthalene     | 8.91  | 142  | 121095   | 9.864   | ng    | 100        |
| 45) 1,1'-Biphenyl           | 9.37  | 154  | 32808    | 2.695   | ng    | 97         |
| 48) Acenaphthylene          | 9.82  | 152  | 80008    | 5.718   | ng    | 99         |
| 49) Dimethylphthalate       | 9.66  | 163  | 21810    | 2.040   | ng    | # 98       |
| 51) Acenaphthene            | 9.99  | 154  | 190163   | 21.456  | ng    | 100        |
| 54) Dibenzofuran            | 10.16 | 168  | 223898   | 18.974  | ng    | 96         |
| 57) Fluorene                | 10.50 | 166  | 285863   | 30.139  | ng    | 99         |
| 70) Phenanthrene            | 11.47 | 178  | 1750143  | 133.863 | ng    | 99         |
| 71) Anthracene              | 11.52 | 178  | 656373   | 49.066  | ng    | 100        |
| 72) Carbazole               | 11.67 | 167  | 253361   | 19.341  | ng    | 100        |
| 74) Fluoranthene            | 12.67 | 202  | 2169344  | 163.860 | ng    | 99         |
| 77) Pvrene                  | 12.90 | 202  | 1919681  | 113.081 | ng    | 98         |
| 80) Benzo(a)anthracene      | 14.08 | 228  | 1024800  | 76.020  | ng    | 97         |
| 82) Chrysene                | 14.12 | 228  | 843010   | 65.685  | ng    | 98         |
| 85) Indeno(1,2,3-cd)pyrene  | 17.10 | 276  | 317762   | 30.951  | ng    | 96         |
| 87) Benzo(b)fluoranthene    | 15.15 | 252  | 952132m  | 91.591  | ng    |            |
| 88) Benzo(k)fluoranthene    | 15.17 | 252  | 248536m  | 24.206  | ng    |            |
| 89) Benzo(a)pvrene          | 15.53 | 252  | 606862   | 63.597  | ng    | 96         |
| 90) Dibenzo(a,h)anthracene  | 17.11 | 278  | 76839    | 10.062  | ng    | # 87       |
| 91) Benzo(g,h,i)perylene    | 17.57 | 276  | 291236   | 38.581  | ng    | 96         |

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

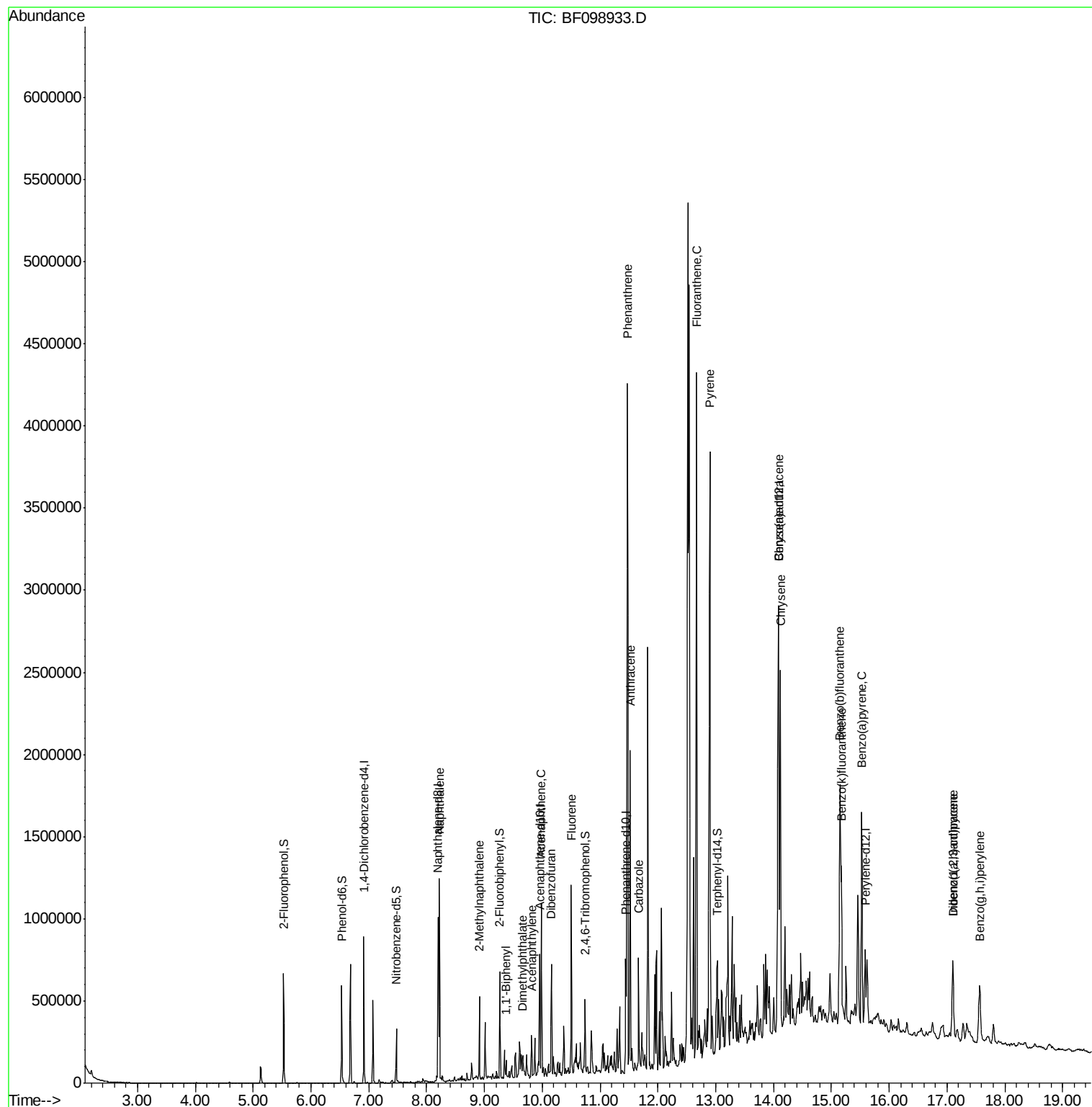
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092817\  
Data File : BF098933.D  
Acq On : 29 Sep 2017 3:36  
Operator : SJ/JU  
Sample : I5515-01 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

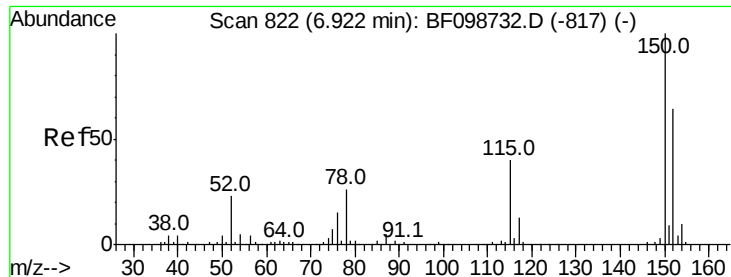
Instrument :  
BNA\_F  
ClientSampleID :  
HD-02-092817

Manual Integrations  
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9/29/2017 6:04:57 PM

Quant Time: Sep 29 04:06:30 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 23 13:50:58 2017  
Response via : Initial Calibration





#1

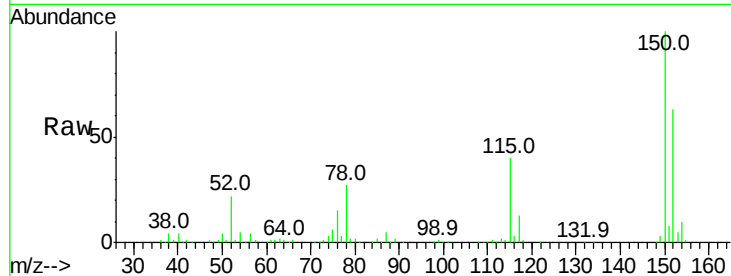
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.7 | 124.6 | 186.8 |
| 115     | 63.1  | 50.1  | 75.1  |

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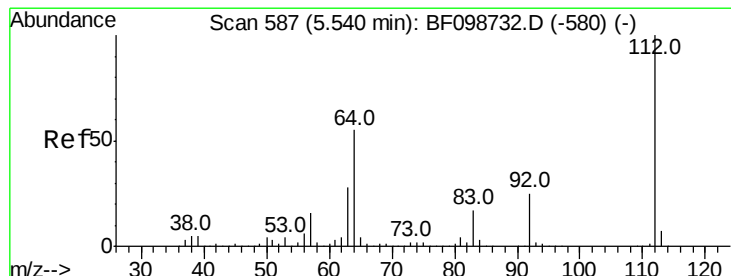
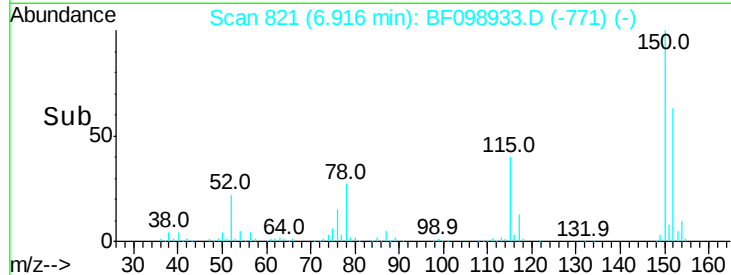
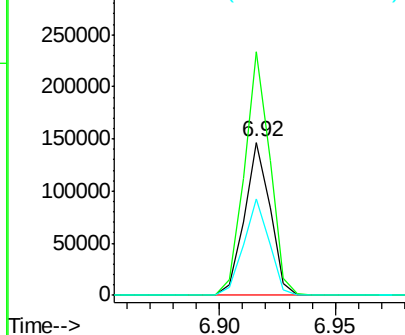


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

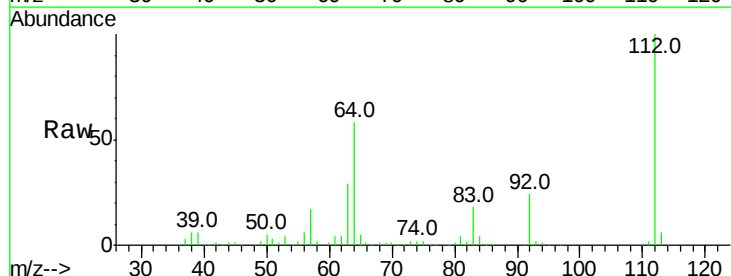
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 23.471 ng  
RT: 5.53 min Scan# 585  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.1  | 47.9  | 71.9  |
| 63      | 29.2  | 23.7  | 35.5  |

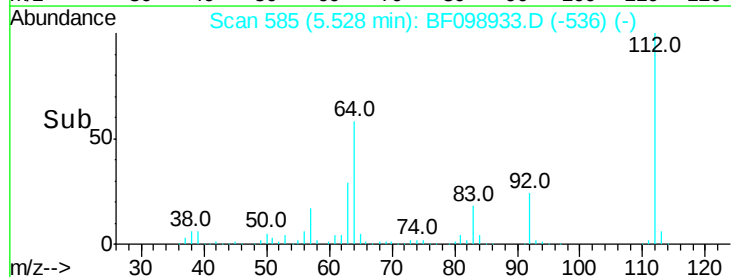
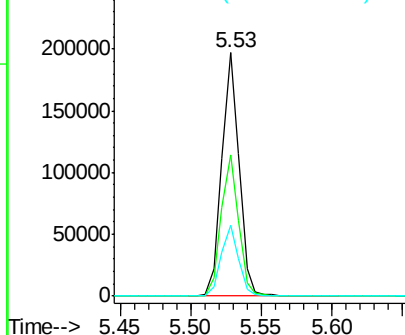


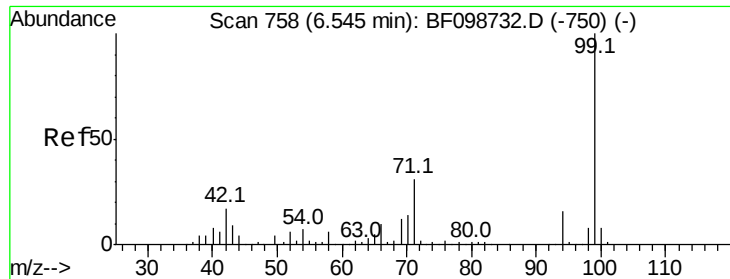
Abundance

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: 21.005 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

Instrument :

BNA\_F

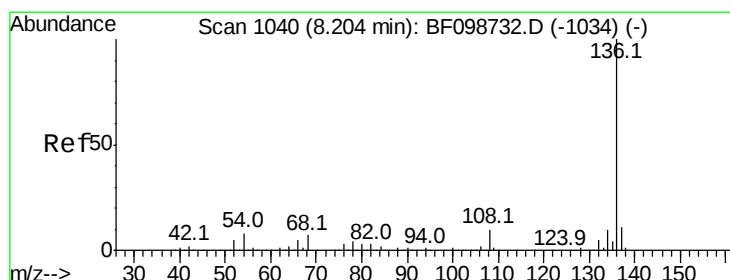
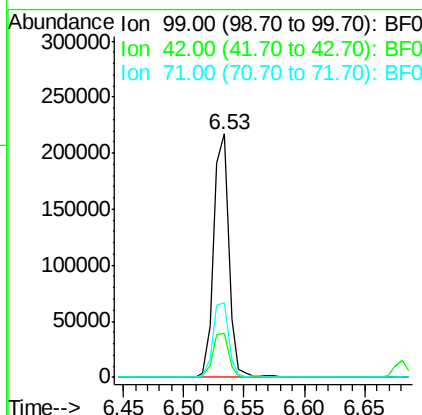
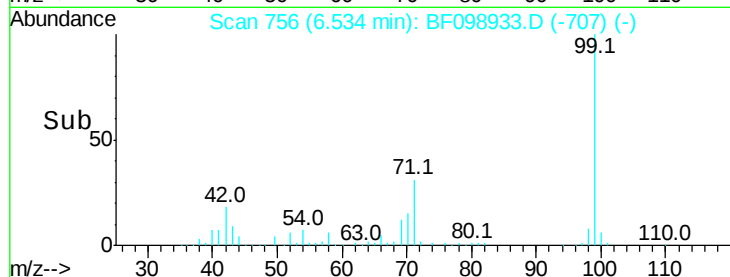
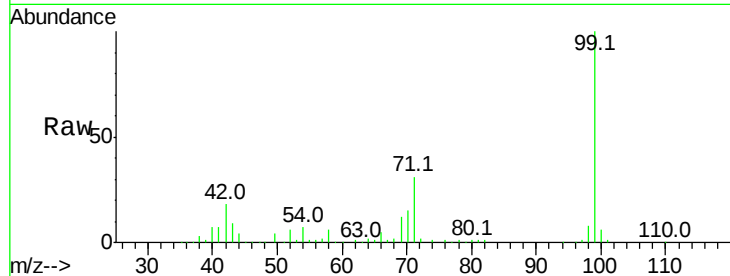
ClientSampleId :

HD-02-092817

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 99      | 100   | 186550 |       |       |
| 42      | 17.9  | 14.5   | 21.7  |       |
| 71      | 30.8  | 25.4   | 38.0  |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

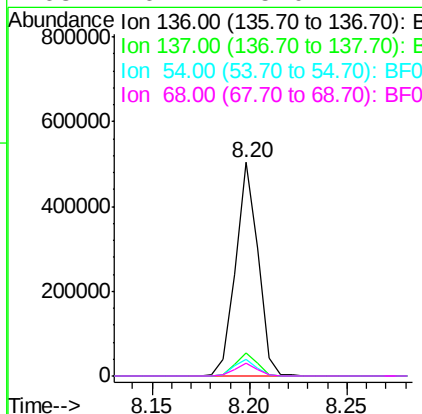
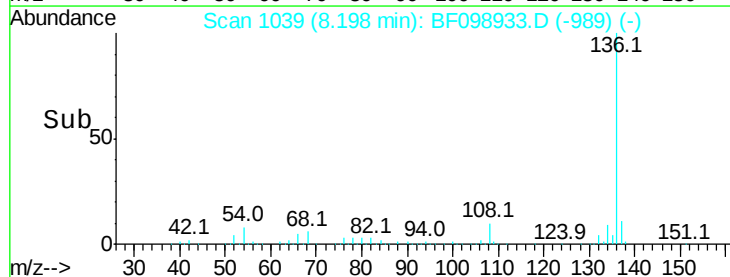
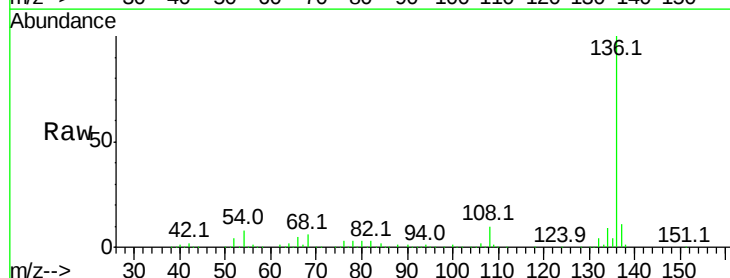
RT: 8.20 min Scan# 1039

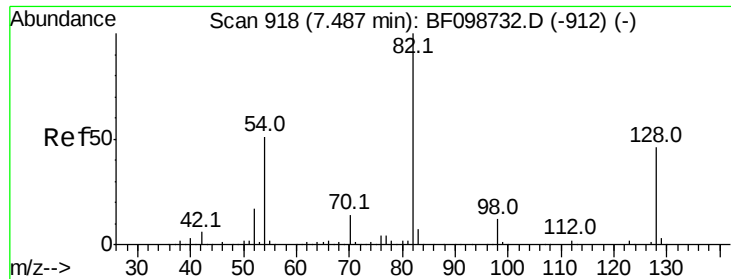
Delta R.T. -0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 402097 |       |       |
| 137     | 10.9  | 8.9    | 13.3  |       |
| 54      | 7.8   | 6.6    | 9.8   |       |
| 68      | 6.2   | 5.0    | 7.4   |       |





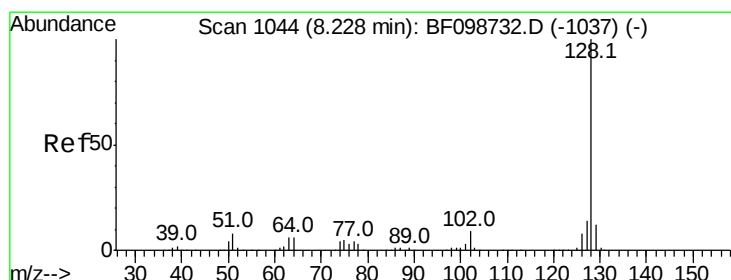
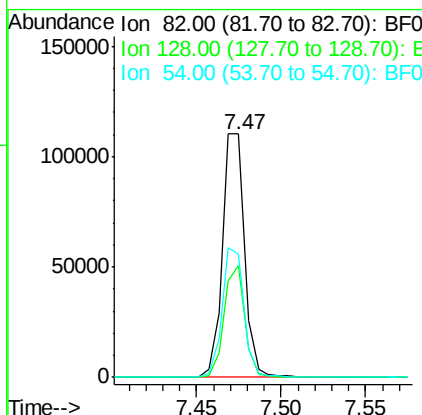
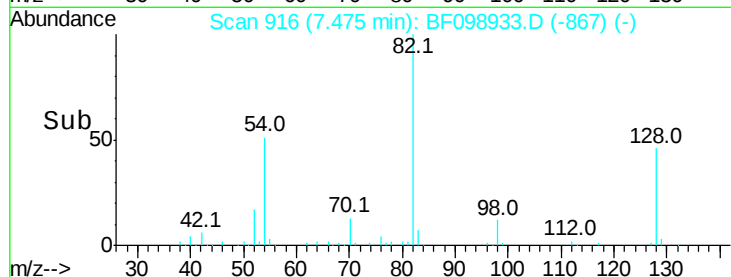
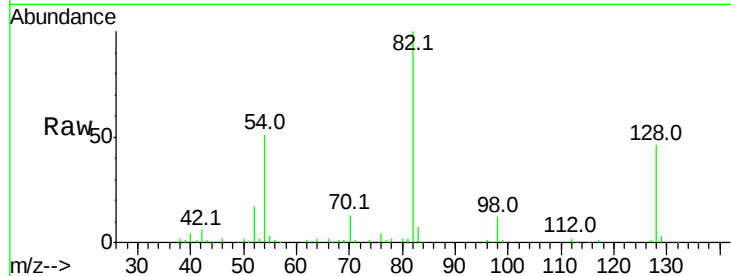
#23  
Nitrobenzene-d5  
Concen: 16.153 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 46.0  | 36.1 | 54.1  |       |
| 54      | 50.7  | 41.4 | 62.2  |       |

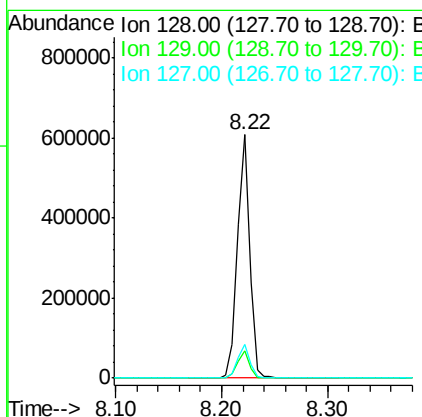
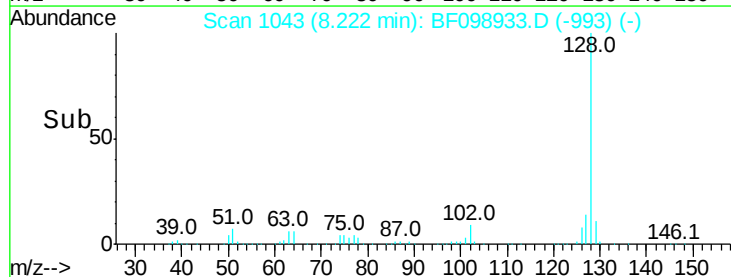
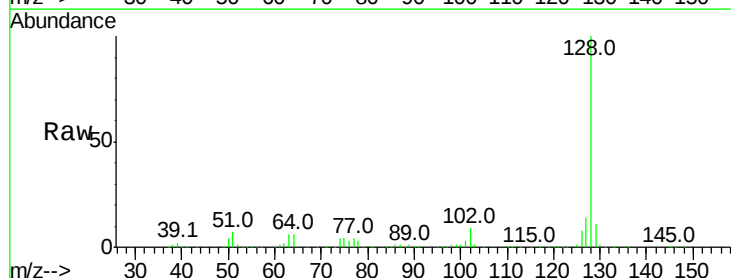
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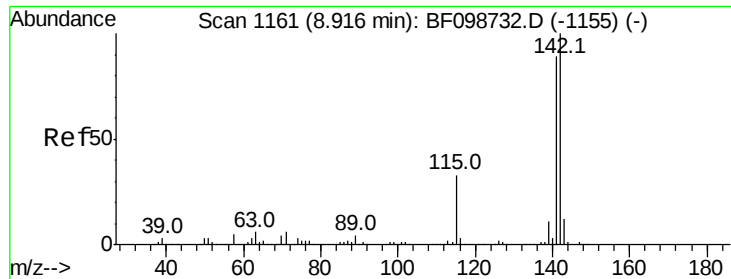
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#31  
Naphthalene  
Concen: 25.530 ng  
RT: 8.22 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 11.1  | 8.8  | 13.2  |       |
| 127     | 13.7  | 10.9 | 16.3  |       |





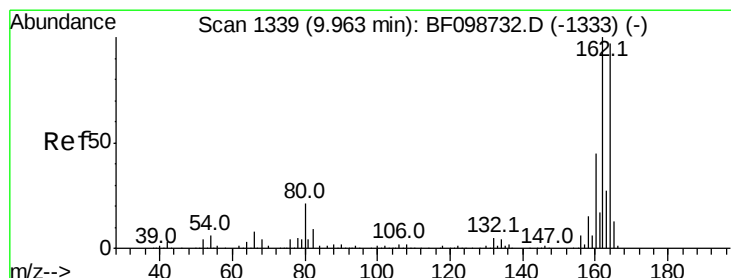
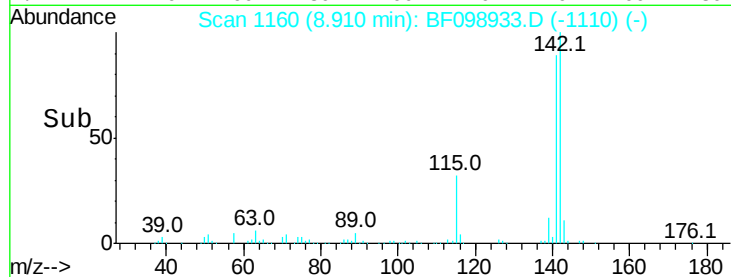
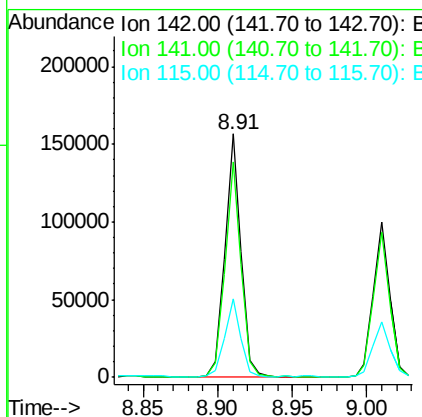
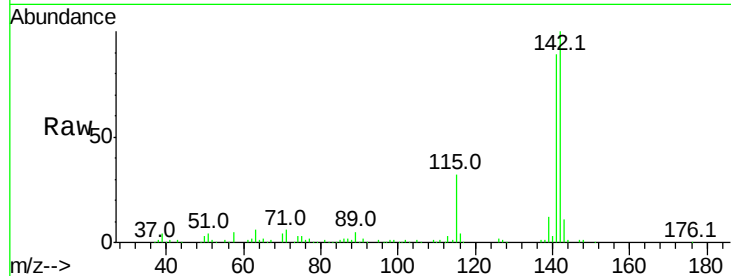
#37  
2-Methylnaphthalene  
Concen: 9.864 ng  
RT: 8.91 min Scan# 1160  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 121095 |       |       |
| 141     | 88.6  | 70.8   | 106.2 |       |
| 115     | 32.2  | 26.1   | 39.1  |       |

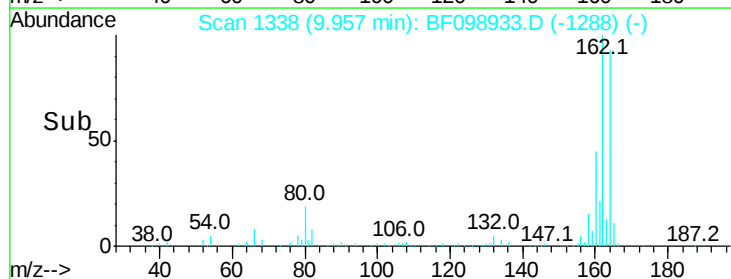
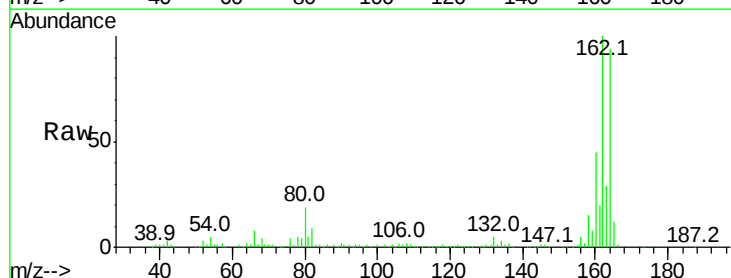
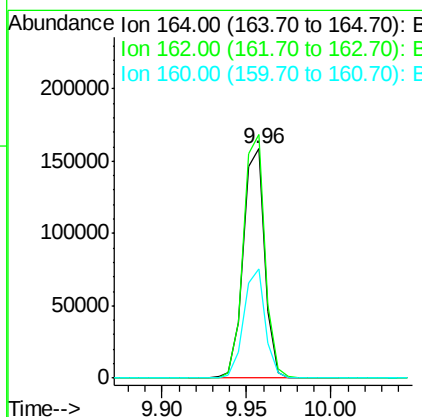
Manual Integrations  
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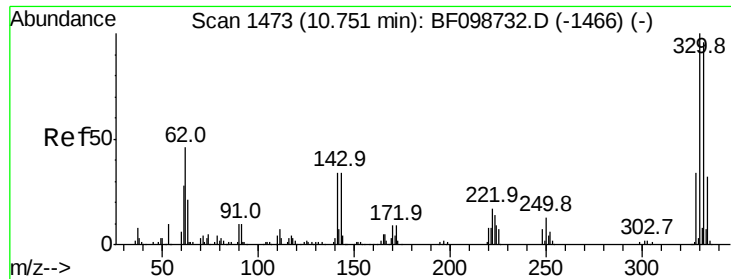
Sohil  
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.96 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 141638 |       |       |
| 162     | 106.2 | 86.1   | 129.1 |       |
| 160     | 47.8  | 38.3   | 57.5  |       |





#41

2,4,6-Tribromophenol

Concen: 19.262 ng

RT: 10.74 min Scan# 1471

Delta R.T. -0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

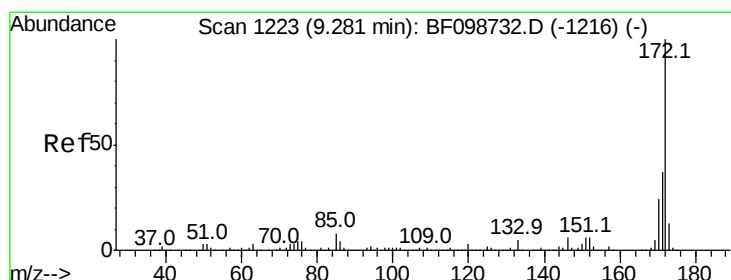
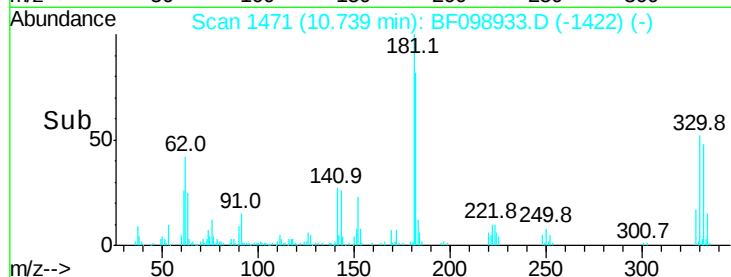
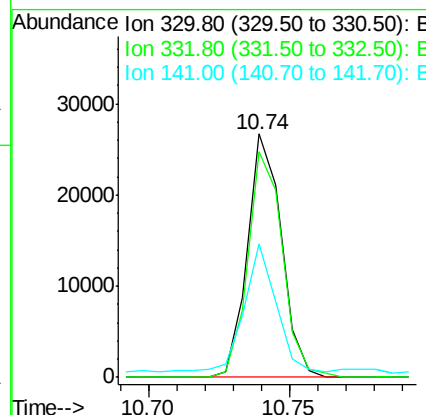
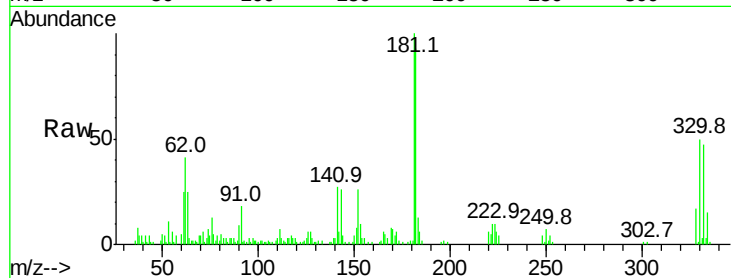
HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.0  | 77.0  | 115.6 |
| 141     | 49.9  | 29.9  | 44.9  |

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#44

2-Fluorobiphenyl

Concen: 19.915 ng

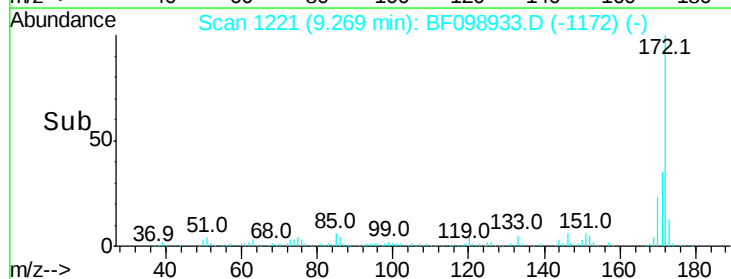
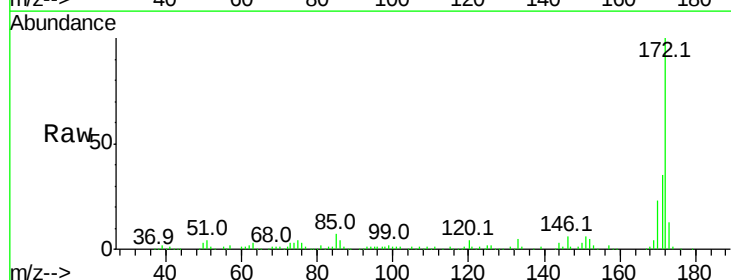
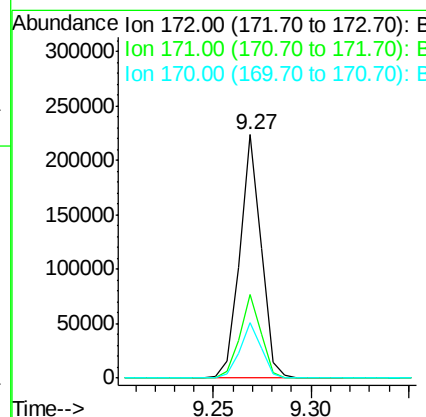
RT: 9.27 min Scan# 1221

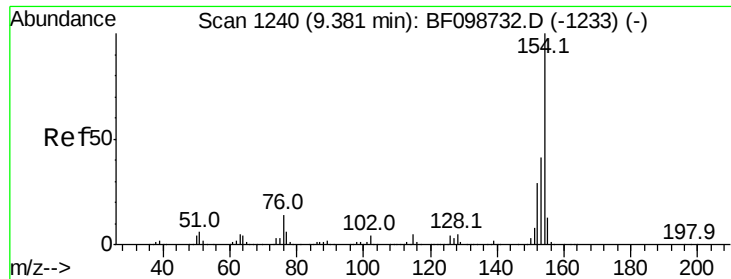
Delta R.T. -0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 29.7  | 44.5  |
| 170     | 22.9  | 19.6  | 29.4  |





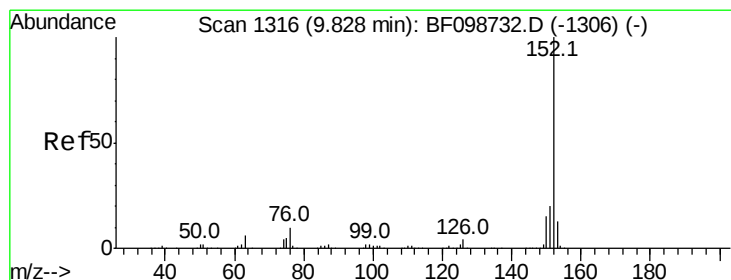
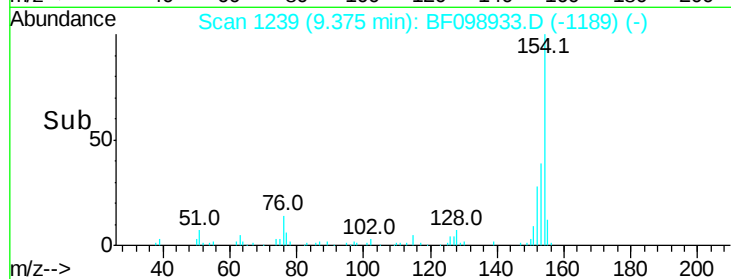
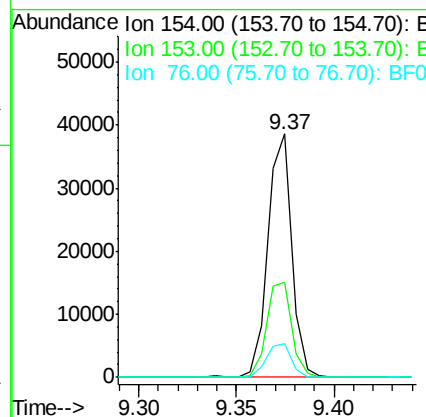
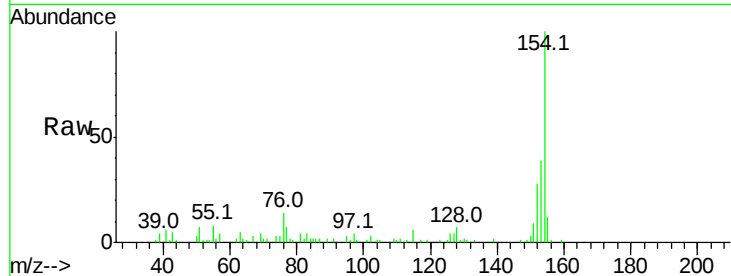
#45  
 1,1'-Biphenyl  
 Concen: 2.695 ng  
 RT: 9.37 min Scan# 1239  
 Delta R.T. -0.01 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-092817

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 39.1  | 21.3 | 61.3  |       |
| 76      | 13.6  | 0.0  | 34.0  |       |

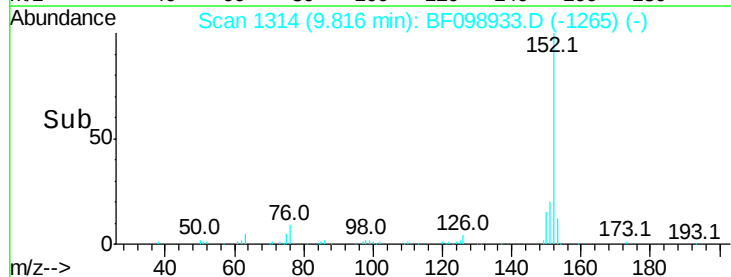
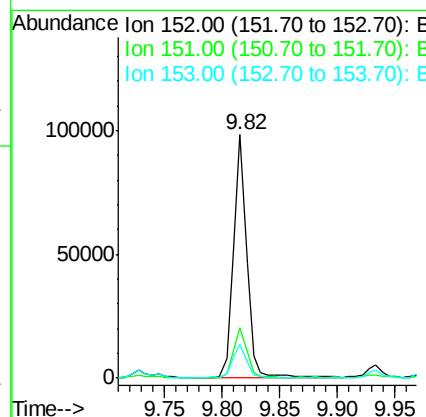
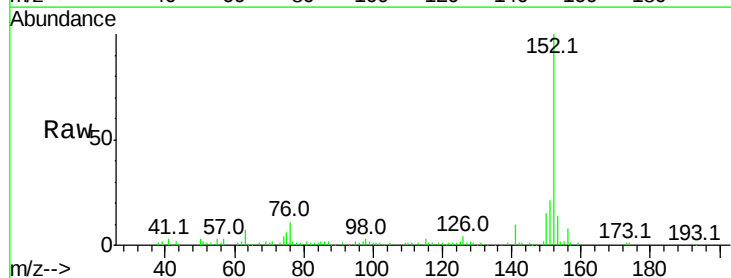
Manual Integrations  
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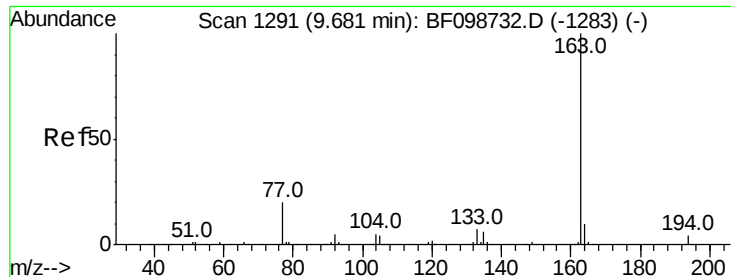
Sohil  
 9/29/2017 6:04:57 PM



#48  
 Acenaphthylene  
 Concen: 5.718 ng  
 RT: 9.82 min Scan# 1314  
 Delta R.T. -0.01 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 152     | 100   |      |       |       |
| 151     | 20.6  | 16.3 | 24.5  |       |
| 153     | 13.9  | 10.7 | 16.1  |       |





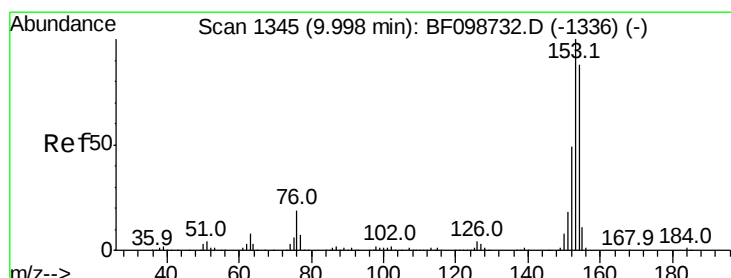
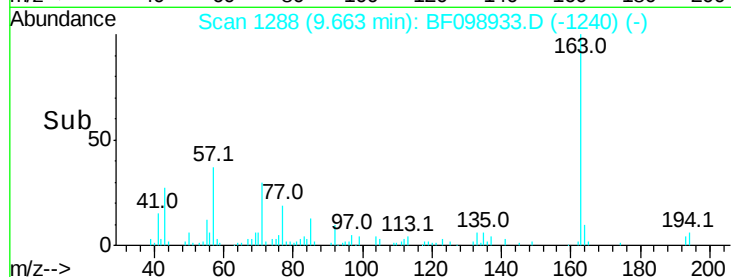
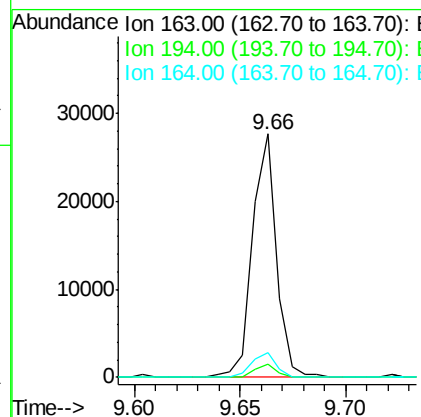
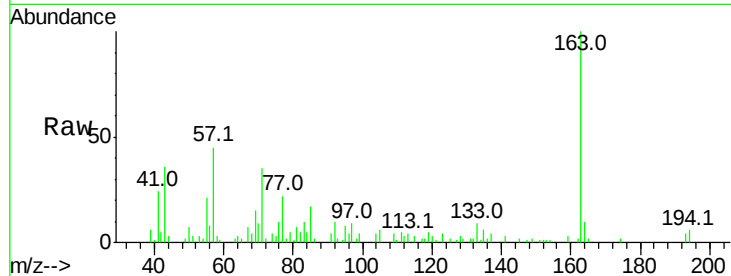
#49  
Dimethylphthalate  
Concen: 2.040 ng  
RT: 9.66 min Scan# 1288  
Delta R.T. -0.02 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 21810 |       |       |
| 194     | 5.7   |       | 2.7   | 4.1#  |
| 164     | 10.1  |       | 8.2   | 12.2  |

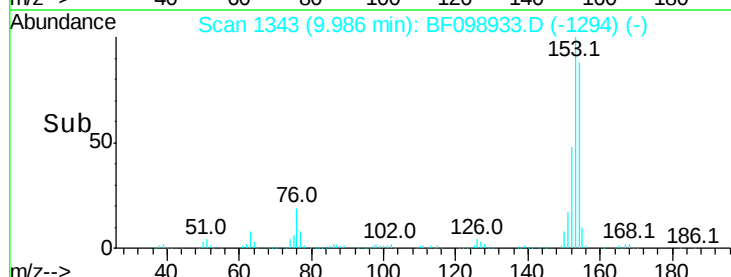
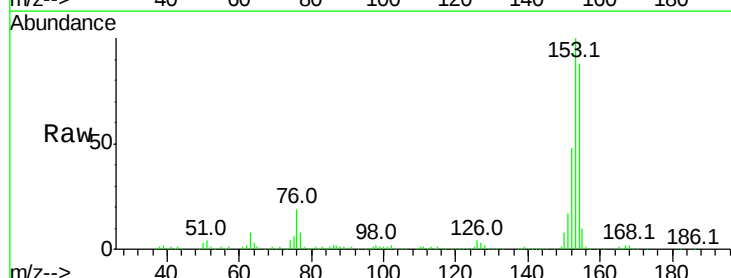
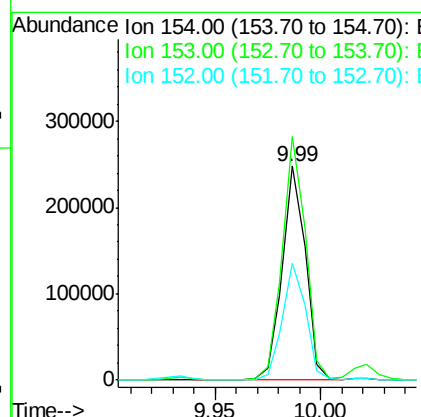
Manual Integrations  
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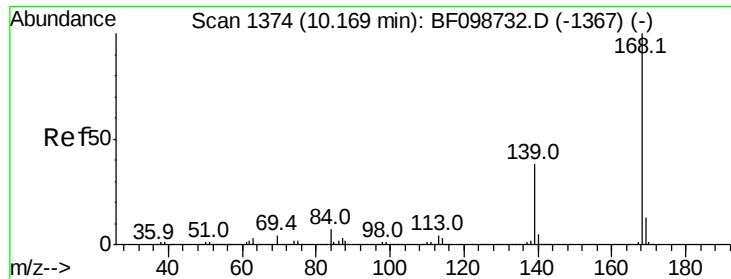
Sohil  
9/29/2017 6:04:57 PM



#51  
Acenaphthene  
Concen: 21.456 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 190163 |       |       |
| 153     | 113.9 |        | 91.2  | 136.8 |
| 152     | 54.4  |        | 43.8  | 65.8  |





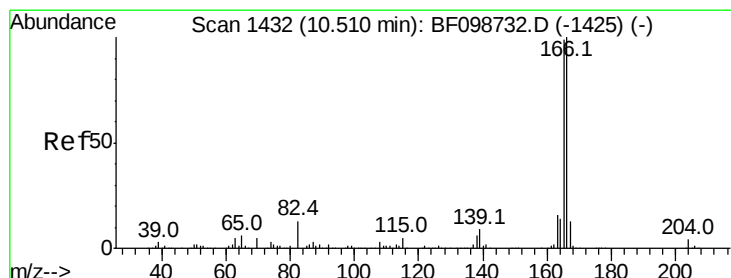
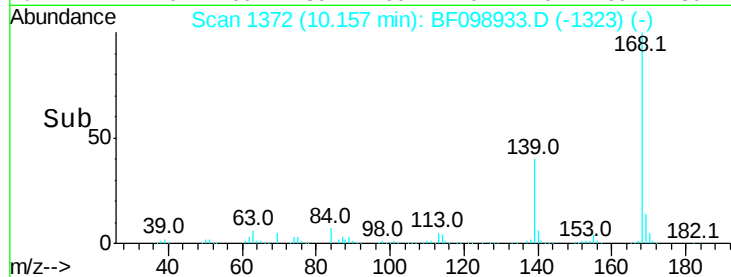
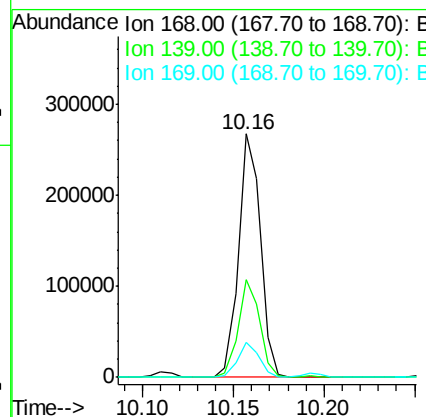
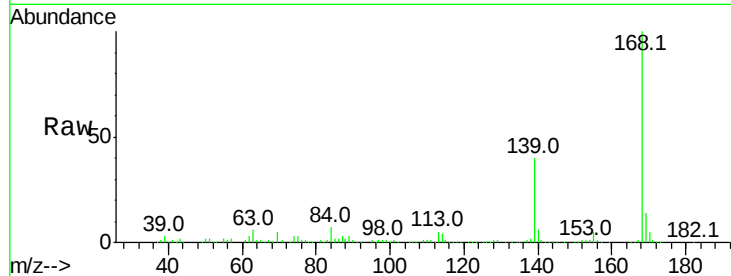
#54  
Dibenzenofuran  
Concen: 18.974 ng  
RT: 10.16 min Scan# 1372  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.2  | 30.1  | 45.1  |
| 169     | 14.3  | 10.9  | 16.3  |

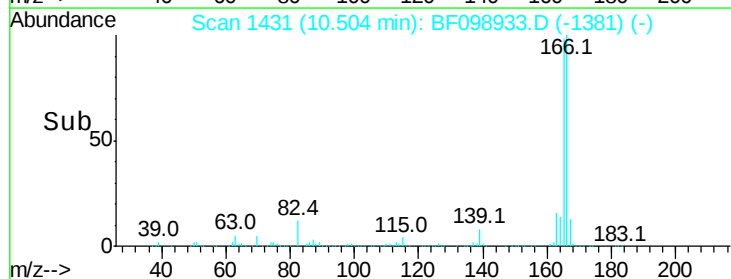
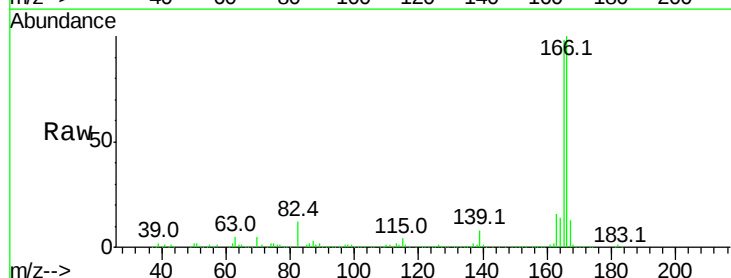
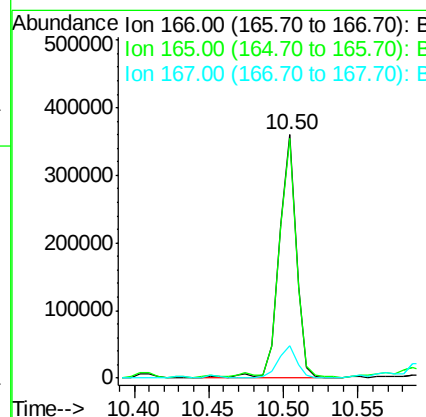
Manual Integrations  
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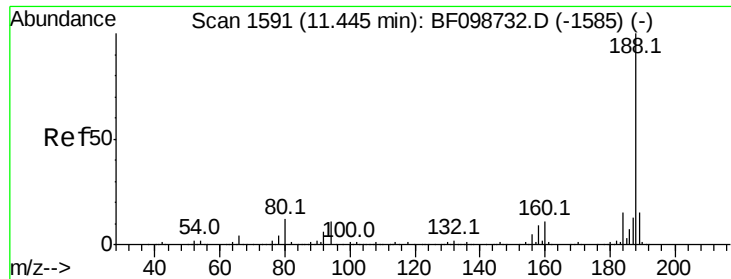
Sohil  
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#57  
Fluorene  
Concen: 30.139 ng  
RT: 10.50 min Scan# 1431  
Delta R.T. -0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.3  | 79.8  | 119.8 |
| 167     | 13.1  | 10.6  | 16.0  |





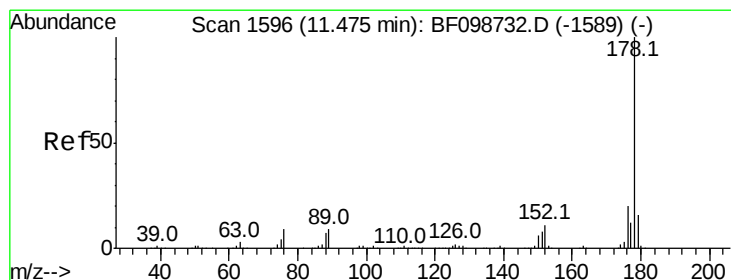
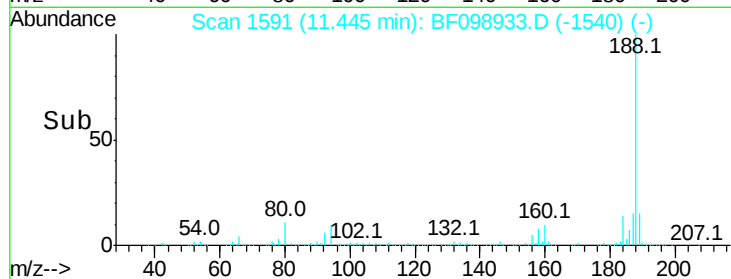
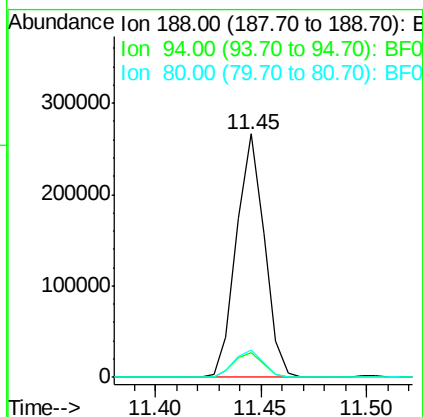
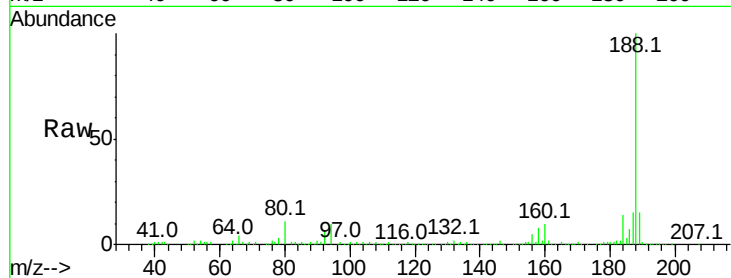
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.45 min Scan# 1591  
Delta R.T. -0.00 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 244251 |       |       |
| 94      | 10.1  | 8.5    | 12.7  |       |
| 80      | 11.2  | 9.2    | 13.8  |       |

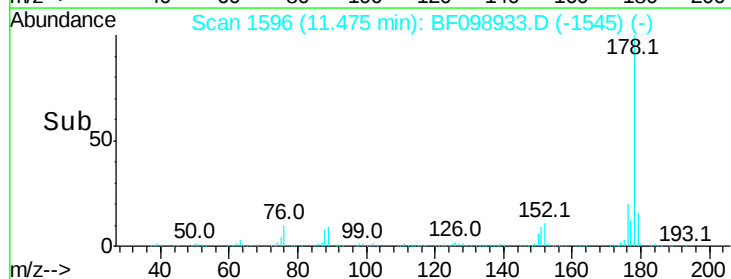
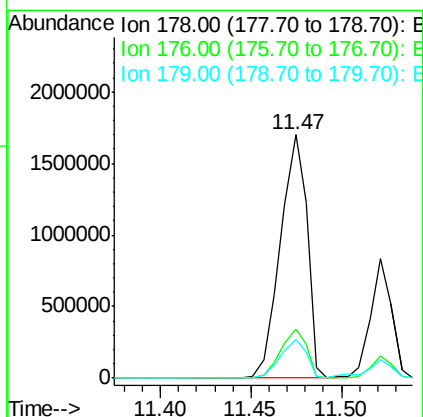
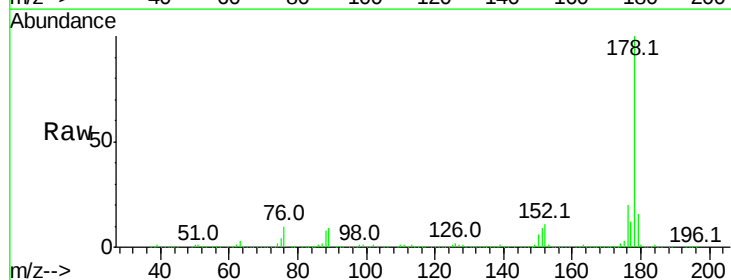
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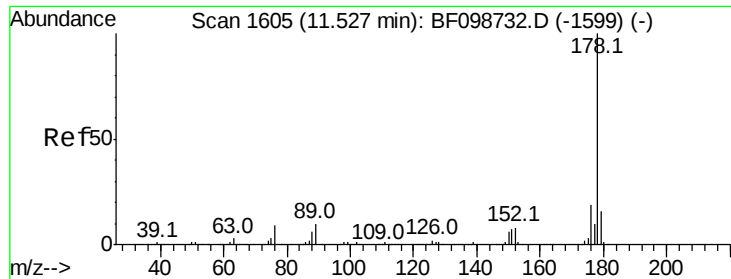
Sohil  
9/29/2017 6:04:57 PM



#70  
Phenanthrene  
Concen: 133.863 ng  
RT: 11.47 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1750143 |       |       |
| 176     | 20.1  | 15.8    | 23.8  |       |
| 179     | 16.0  | 13.0    | 19.6  |       |





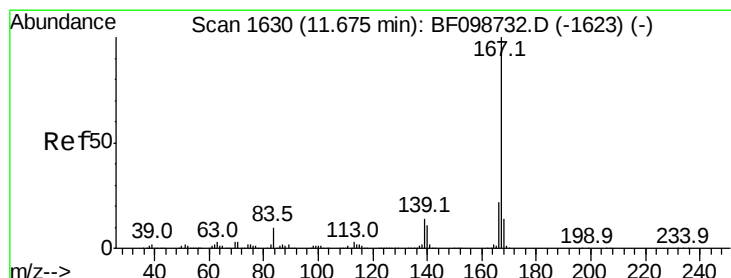
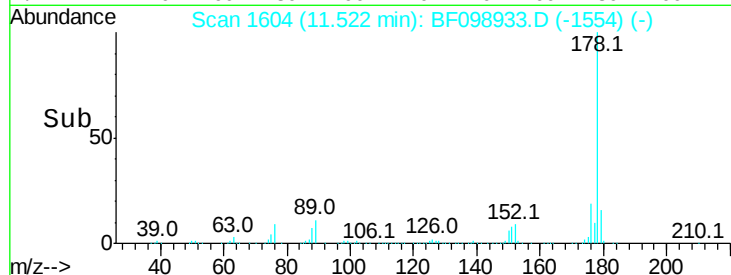
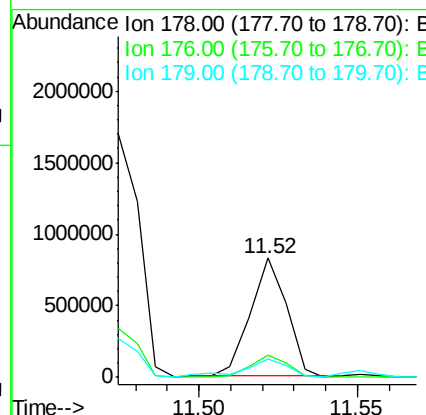
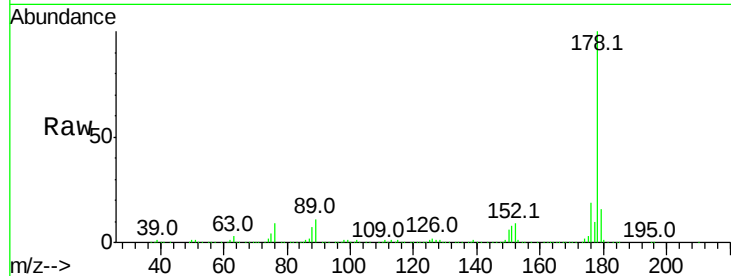
#71  
 Anthracene  
 Concen: 49.066 ng  
 RT: 11.52 min Scan# 1604  
 Delta R.T. -0.01 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.4  | 23.2  |
| 179     | 15.6  | 12.6  | 19.0  |

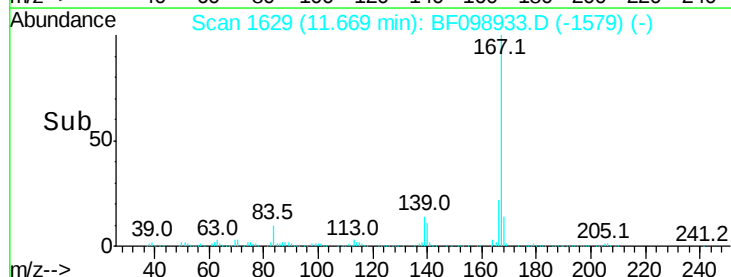
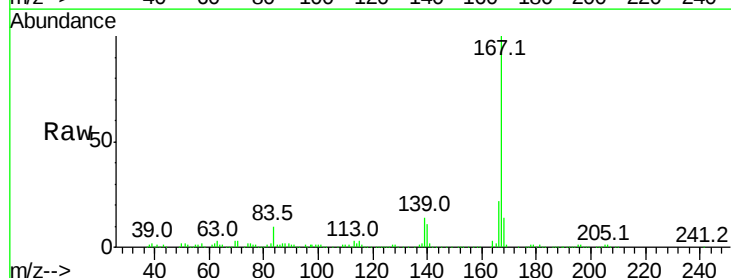
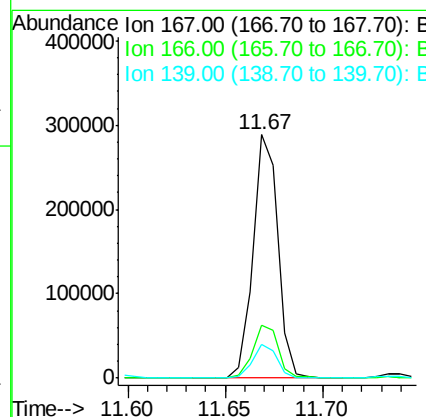
Manual Integrations  
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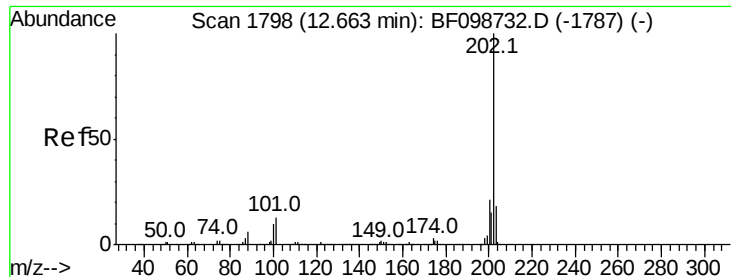
Sohil  
 9/29/2017 6:04:57 PM



#72  
 Carbazole  
 Concen: 19.341 ng  
 RT: 11.67 min Scan# 1629  
 Delta R.T. -0.01 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.9  | 17.6  | 26.4  |
| 139     | 14.0  | 10.9  | 16.3  |





#74

Fluoranthene

Concen: 163.860 ng

RT: 12.67 min Scan# 1800

Delta R.T. 0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

Instrument :

BNA\_F

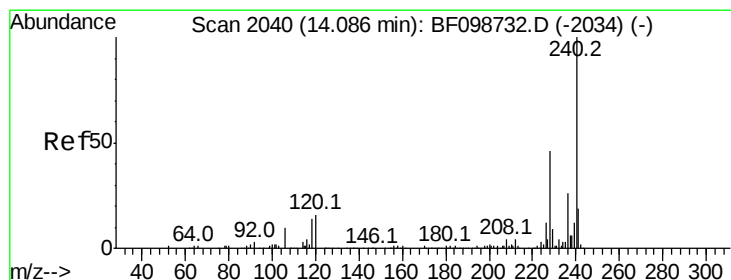
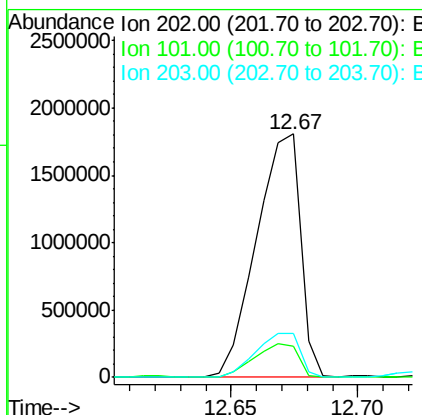
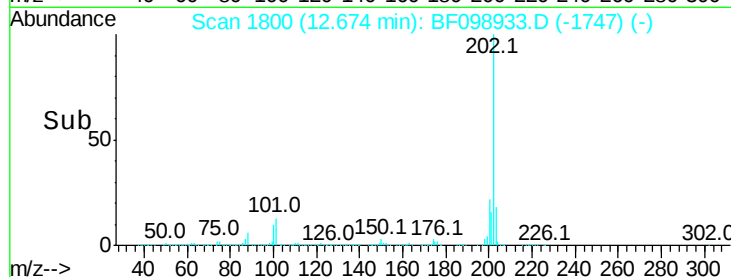
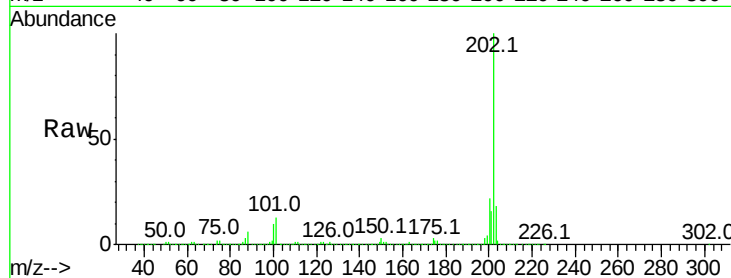
ClientSampleId :

HD-02-092817

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 2169344 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 12.9  | 0.0   | 34.1    |
| 203      | 18.1  | 0.0   | 38.1    |

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#75

Chrysene-d12

Concen: 20.000 ng

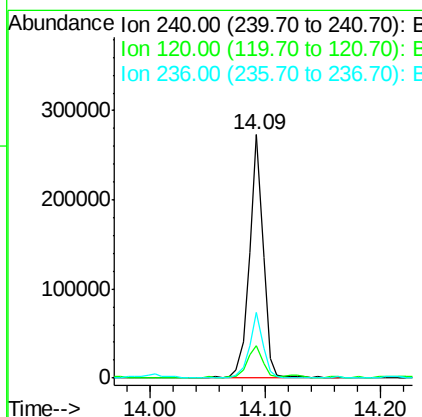
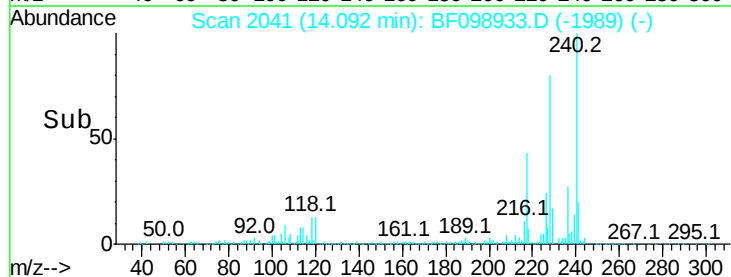
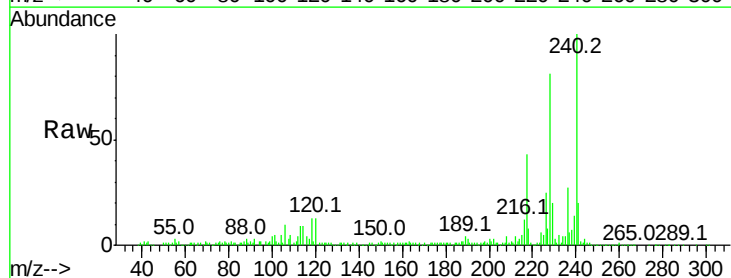
RT: 14.09 min Scan# 2041

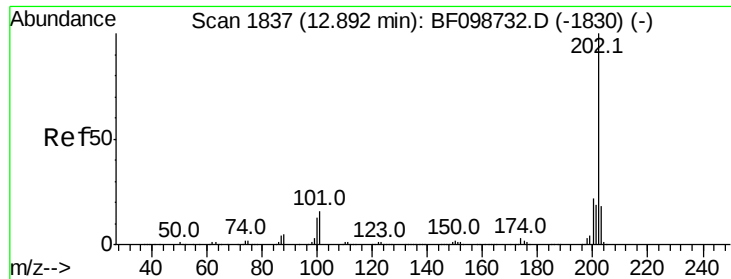
Delta R.T. 0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 222627 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 13.1  | 9.5   | 14.3   |
| 236      | 27.1  | 20.7  | 31.1   |





#77

Pvrene

Concen: 113.081 ng

RT: 12.90 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

Instrument :

BNA\_F

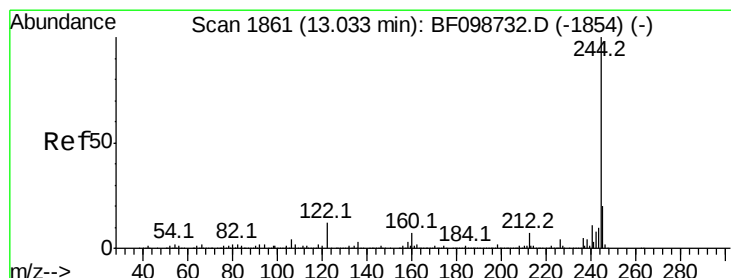
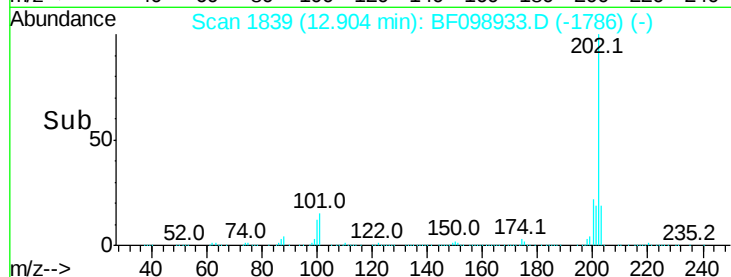
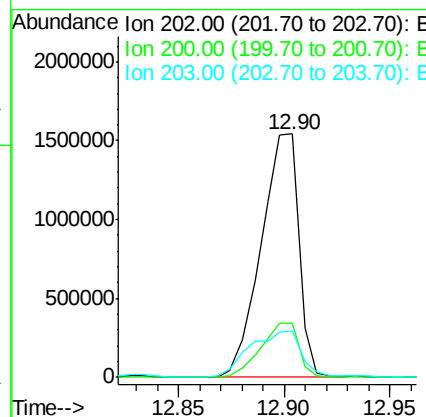
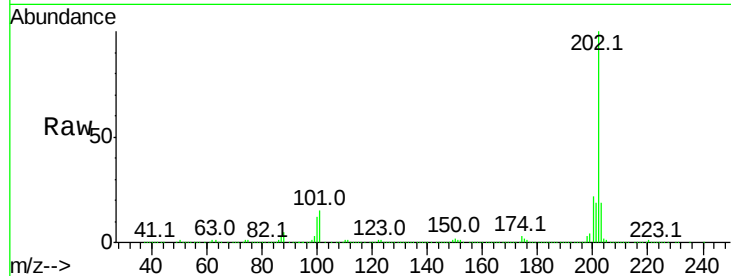
ClientSampleId :

HD-02-092817

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1919681 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 200      | 22.2  | 17.4  | 26.2    |
| 203      | 19.1  | 14.3  | 21.5    |

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#78

Terphenyl-d14

Concen: 15.442 ng

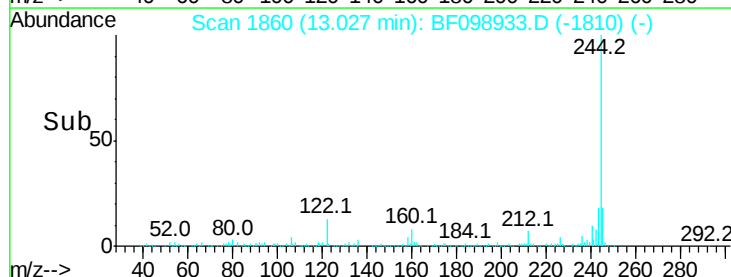
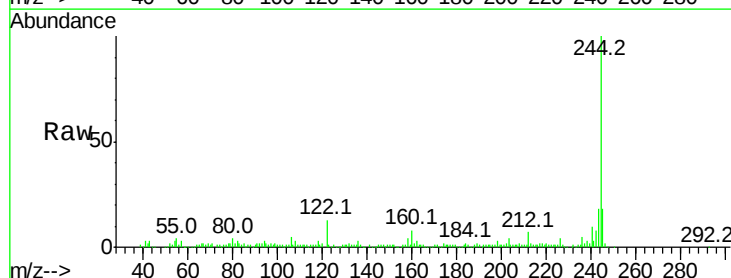
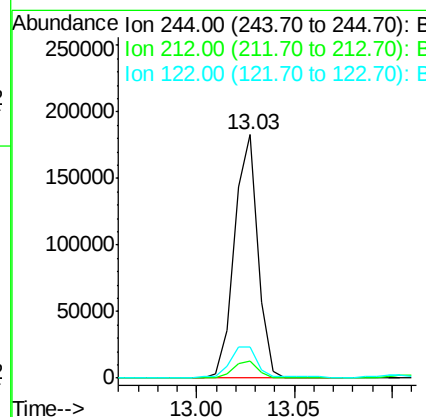
RT: 13.03 min Scan# 1860

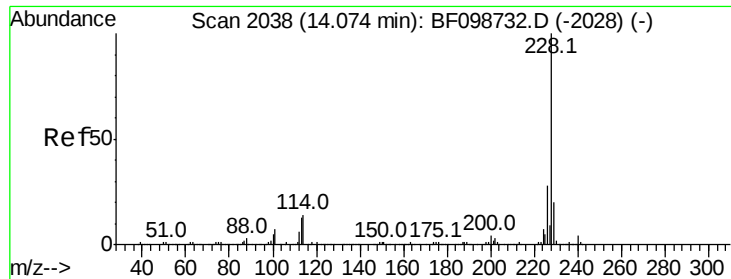
Delta R.T. -0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 151164 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.1   | 5.4   | 8.0    |
| 122      | 12.8  | 11.0  | 16.4   |





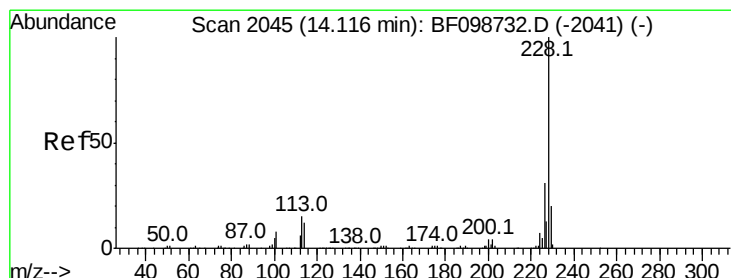
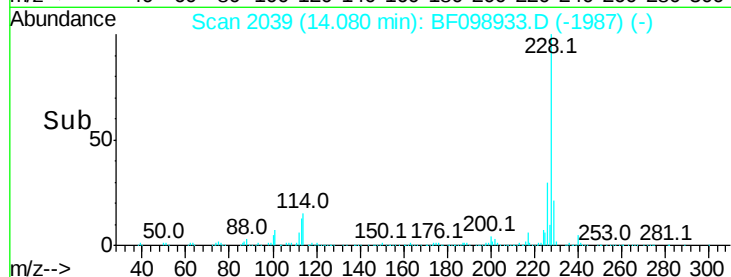
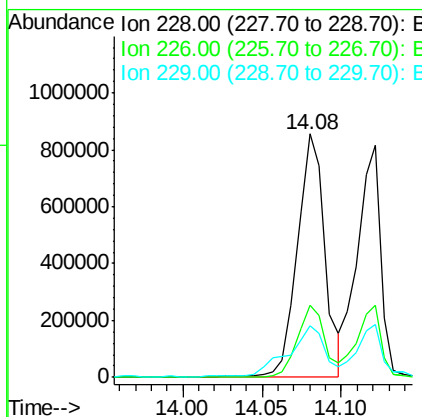
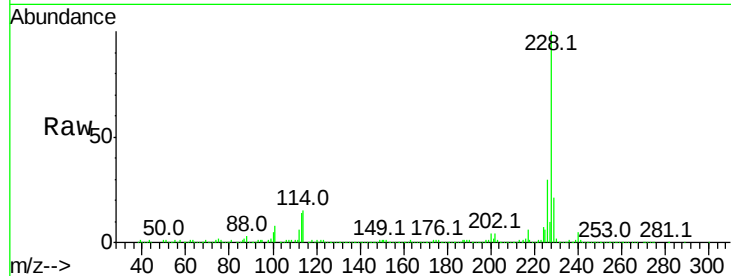
#80  
Benzo(a)anthracene  
Concen: 76.020 ng  
RT: 14.08 min Scan# 2039  
Delta R.T. 0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 22.6  | 33.8  |
| 229     | 21.1  | 15.8  | 23.6  |

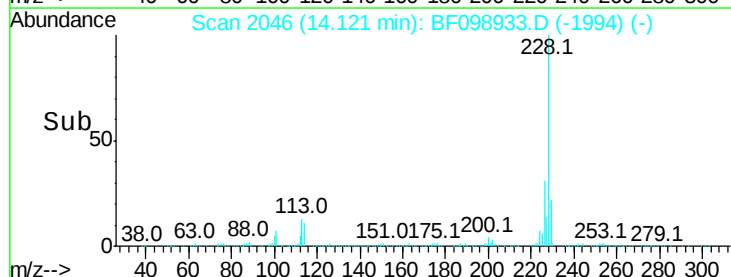
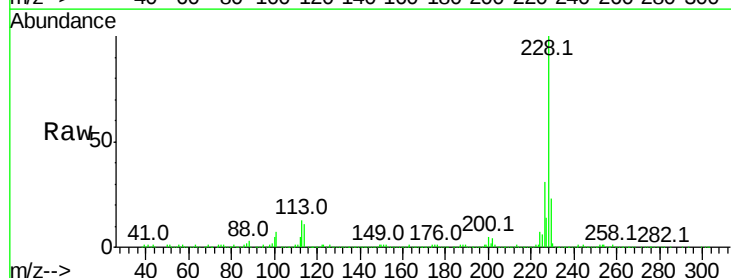
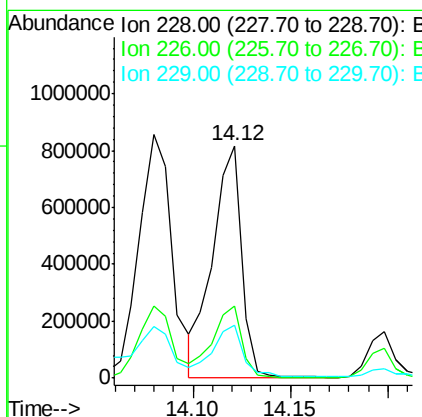
Manual Integrations  
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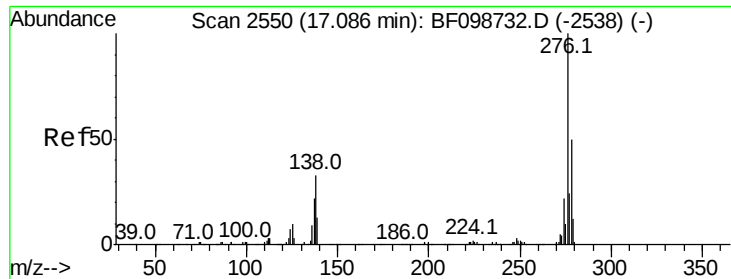
Sohil  
9/29/2017 6:04:57 PM



#82  
Chrysene  
Concen: 65.685 ng  
RT: 14.12 min Scan# 2046  
Delta R.T. 0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 25.0  | 37.6  |
| 229     | 22.8  | 16.2  | 24.4  |





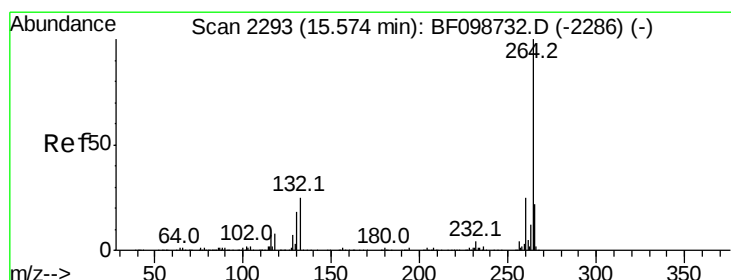
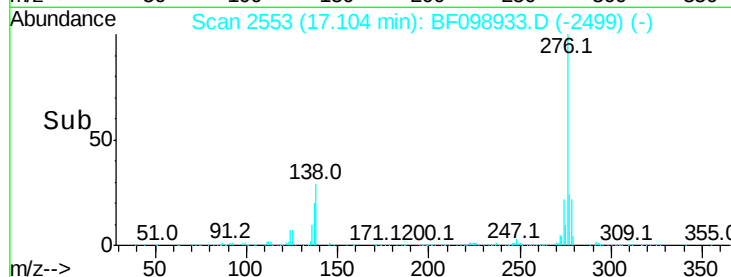
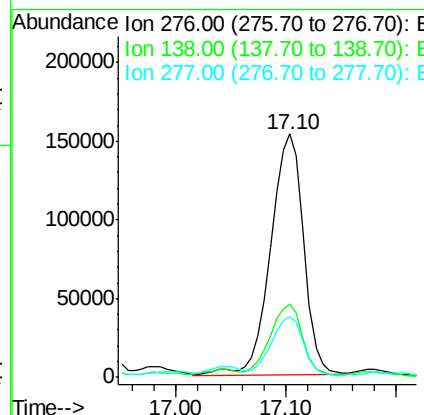
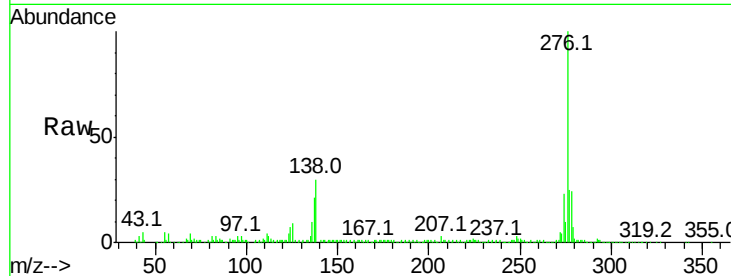
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 30.951 ng  
 RT: 17.10 min Scan# 2553  
 Delta R.T. 0.02 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.5  | 25.0  | 37.6  |
| 277     | 24.2  | 20.1  | 30.1  |

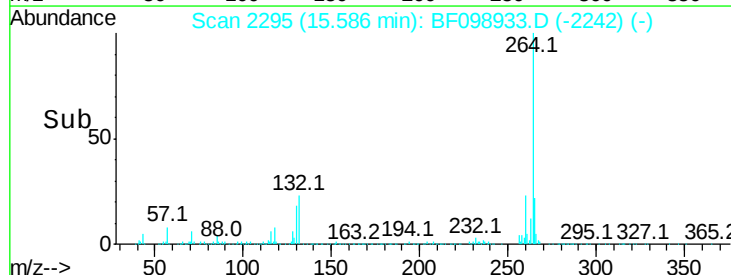
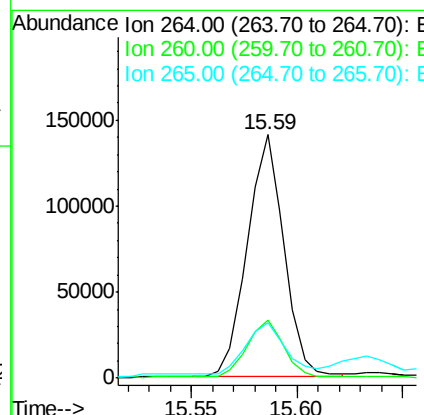
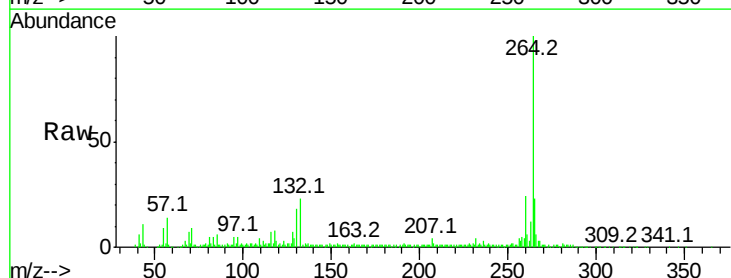
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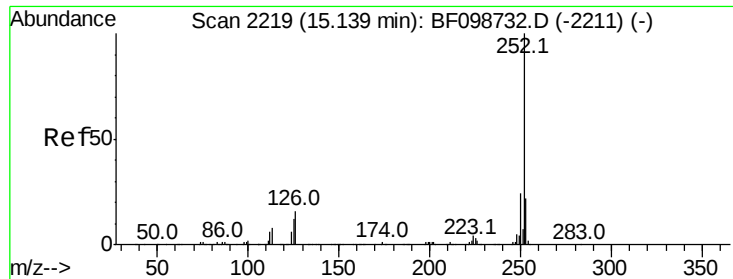
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.59 min Scan# 2295  
 Delta R.T. 0.01 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 22.9  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 91.591 ng m

RT: 15.15 min Scan# 2221

Delta R.T. 0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

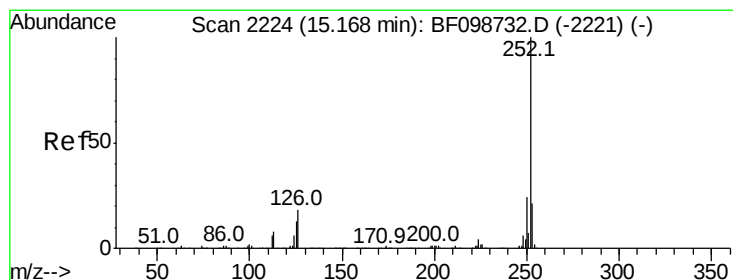
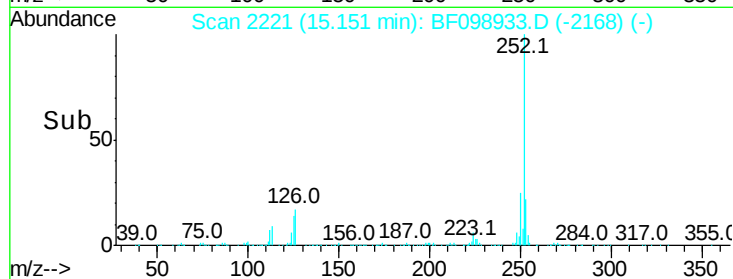
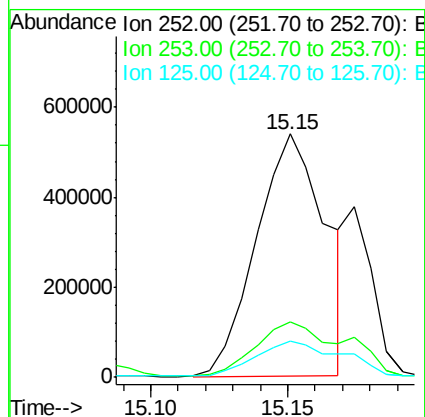
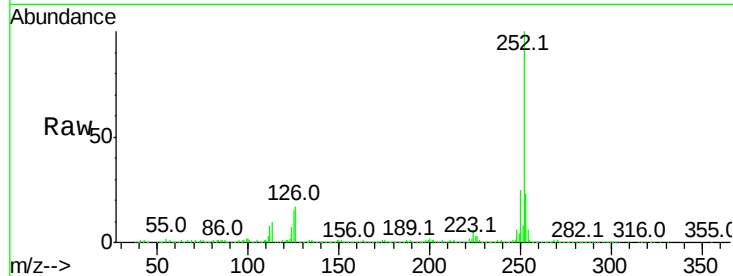
Instrument :  
BNA\_F

ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.0  | 25.6  |
| 125     | 14.8  | 9.0   | 13.6  |

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#88

Benzo(k)fluoranthene

Concen: 24.206 ng m

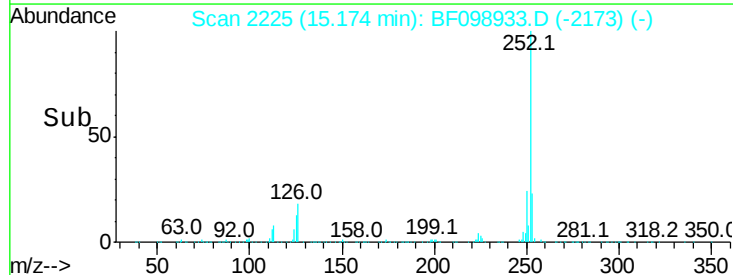
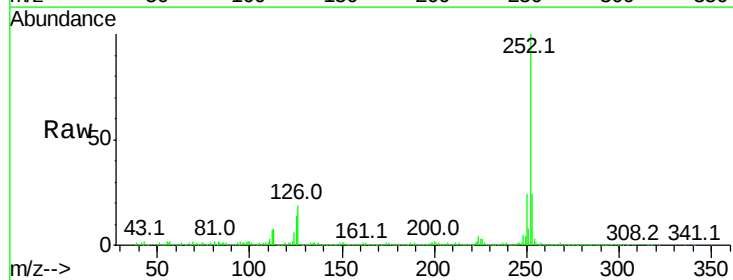
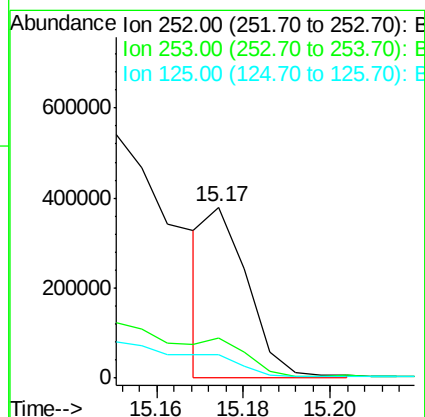
RT: 15.17 min Scan# 2225

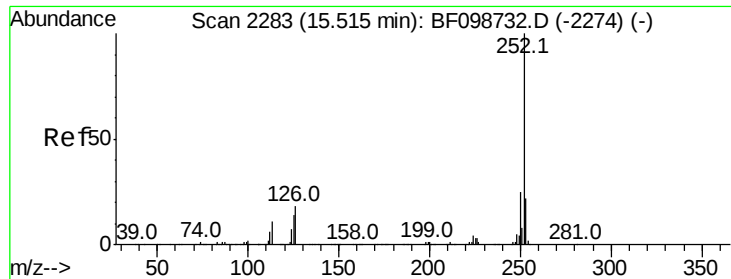
Delta R.T. 0.01 min

Lab File: BF098933.D

Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.9  | 26.9  |
| 125     | 13.8  | 10.2  | 15.2  |





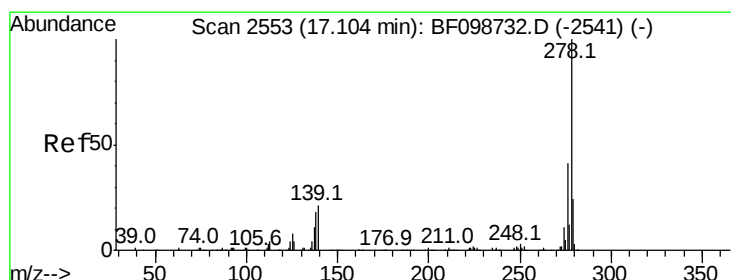
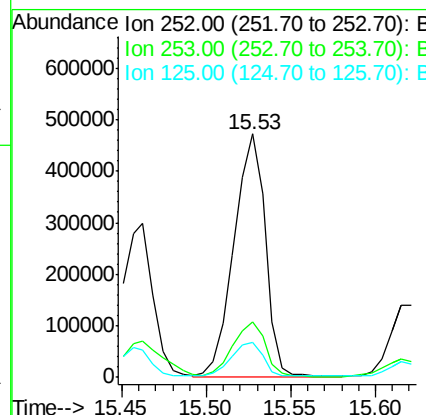
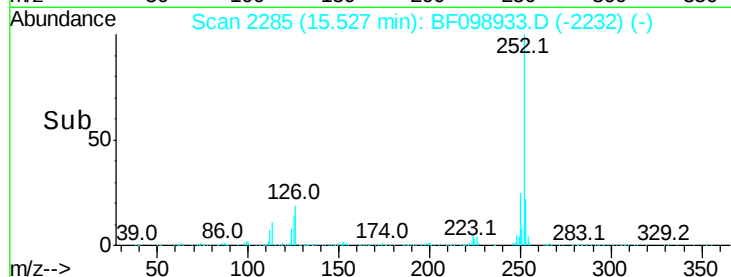
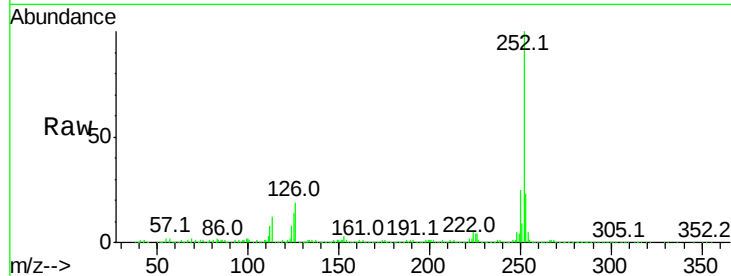
#89  
Benzo(a)pyrene  
Concen: 63.597 ng  
RT: 15.53 min Scan# 2285  
Delta R.T. 0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-092817

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 23.0  | 17.1 | 25.7  |       |
| 125     | 14.5  | 9.8  | 14.6  |       |

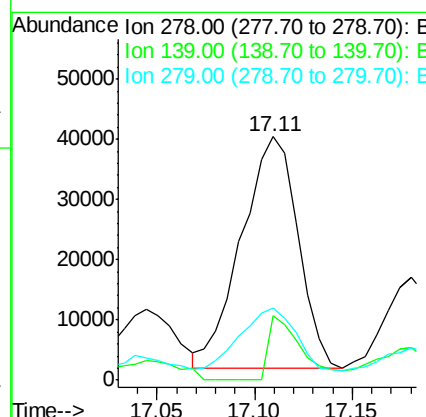
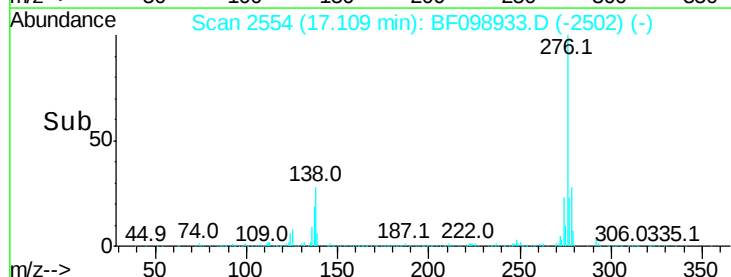
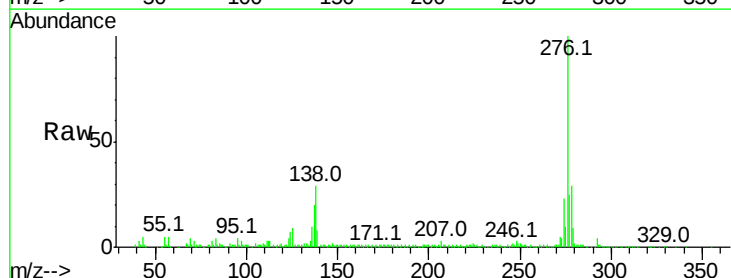
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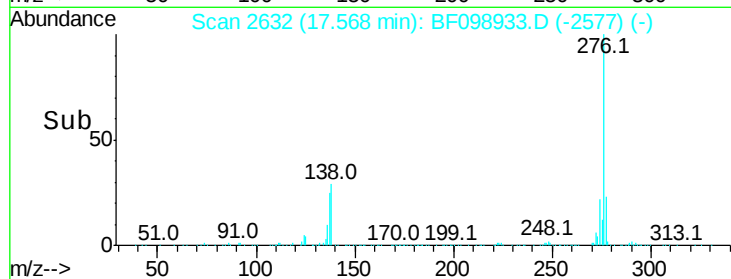
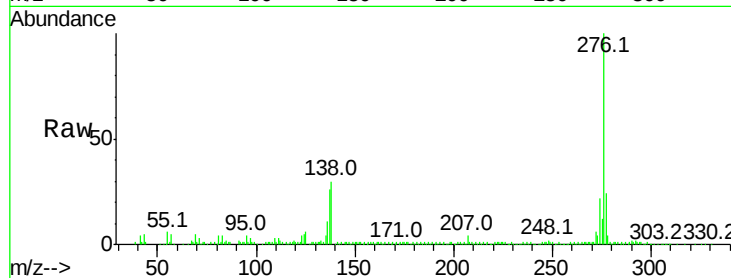
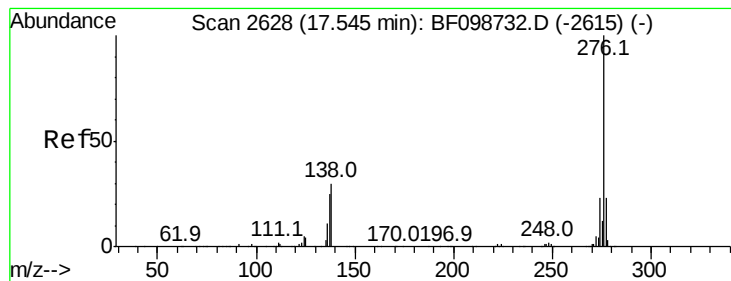
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#90  
Dibenzo(a,h)anthracene  
Concen: 10.062 ng  
RT: 17.11 min Scan# 2554  
Delta R.T. 0.01 min  
Lab File: BF098933.D  
Acq: 29 Sep 2017 3:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 278     | 100   |      |       |       |
| 139     | 26.7  | 15.9 | 23.9# |       |
| 279     | 29.8  | 19.0 | 28.4# |       |





#91  
 Benzo(a,h,i)perylene  
 Concen: 38.581 ng  
 RT: 17.57 min Scan# 2632  
 Delta R.T. 0.02 min  
 Lab File: BF098933.D  
 Acq: 29 Sep 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-092817

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 17.9  | 26.9  |
| 138     | 29.6  | 21.8  | 32.8  |

Manual Integrations  
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