

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097176.D  
 Acq On : 29 Jul 2017 1:37  
 Operator : SJ/JU  
 Sample : I4456-09  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15-SS-6

Manual Integrations  
 APPROVED

Sohil  
 7/31/2017 6:52:26 PM

Quant Time: Jul 31 15:44:17 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 112896   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8          | 7.77  | 136  | 385420   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10        | 9.51  | 164  | 156956   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10        | 10.99 | 188  | 221073   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12            | 13.62 | 240  | 185858   | 20.00  | ng    | -0.01     |
| 86) Perylene-d12            | 14.96 | 264  | 143426   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.09  | 112  | 691109   | 92.28  | ng    | -0.01     |
| 7) Phenol-d6                | 6.15  | 99   | 847220   | 99.09  | ng    | -0.02     |
| 23) Nitrobenzene-d5         | 7.05  | 82   | 487143   | 74.15  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 101355   | 81.73  | ng    | -0.02     |
| 44) 2-Fluorobiphenyl        | 8.85  | 172  | 579881   | 62.70  | ng    | -0.02     |
| 78) Terphenyl-d14           | 12.57 | 244  | 355464   | 38.99  | ng    | -0.02     |
| Target Compounds            |       |      |          |        |       |           |
| 49) Dimethylphthalate       | 9.25  | 163  | 98307    | 8.248  | ng    | Qvalue 99 |
| 51) Acenaphthene            | 9.55  | 154  | 23494    | 2.634  | ng    | 97        |
| 57) Fluorene                | 10.06 | 166  | 21266    | 2.382  | ng    | # 96      |
| 70) Phenanthrene            | 11.01 | 178  | 261031   | 22.037 | ng    | 99        |
| 71) Anthracene              | 11.06 | 178  | 64958    | 5.354  | ng    | 98        |
| 72) Carbazole               | 11.22 | 167  | 33962    | 2.846  | ng    | 97        |
| 74) Fluoranthene            | 12.19 | 202  | 434342   | 37.430 | ng    | 97        |
| 77) Pyrene                  | 12.42 | 202  | 384737   | 25.286 | ng    | 99        |
| 80) Benzo(a)anthracene      | 13.60 | 228  | 192174   | 15.980 | ng    | 99        |
| 82) Chrysene                | 13.64 | 228  | 197426   | 16.813 | ng    | 97        |
| 85) Indeno(1,2,3-cd)pyrene  | 16.18 | 276  | 68106    | 6.764  | ng    | 98        |
| 87) Benzo(b)fluoranthene    | 14.60 | 252  | 230892m  | 26.780 | ng    |           |
| 88) Benzo(k)fluoranthene    | 14.63 | 252  | 52154m   | 6.348  | ng    |           |
| 89) Benzo(a)pyrene          | 14.91 | 252  | 135650   | 17.191 | ng    | # 96      |
| 90) Dibenzo(a,h)anthracene  | 16.19 | 278  | 19315m   | 2.985  | ng    |           |
| 91) Benzo(g,h,i)perylene    | 16.54 | 276  | 64153    | 9.454  | ng    | 98        |

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

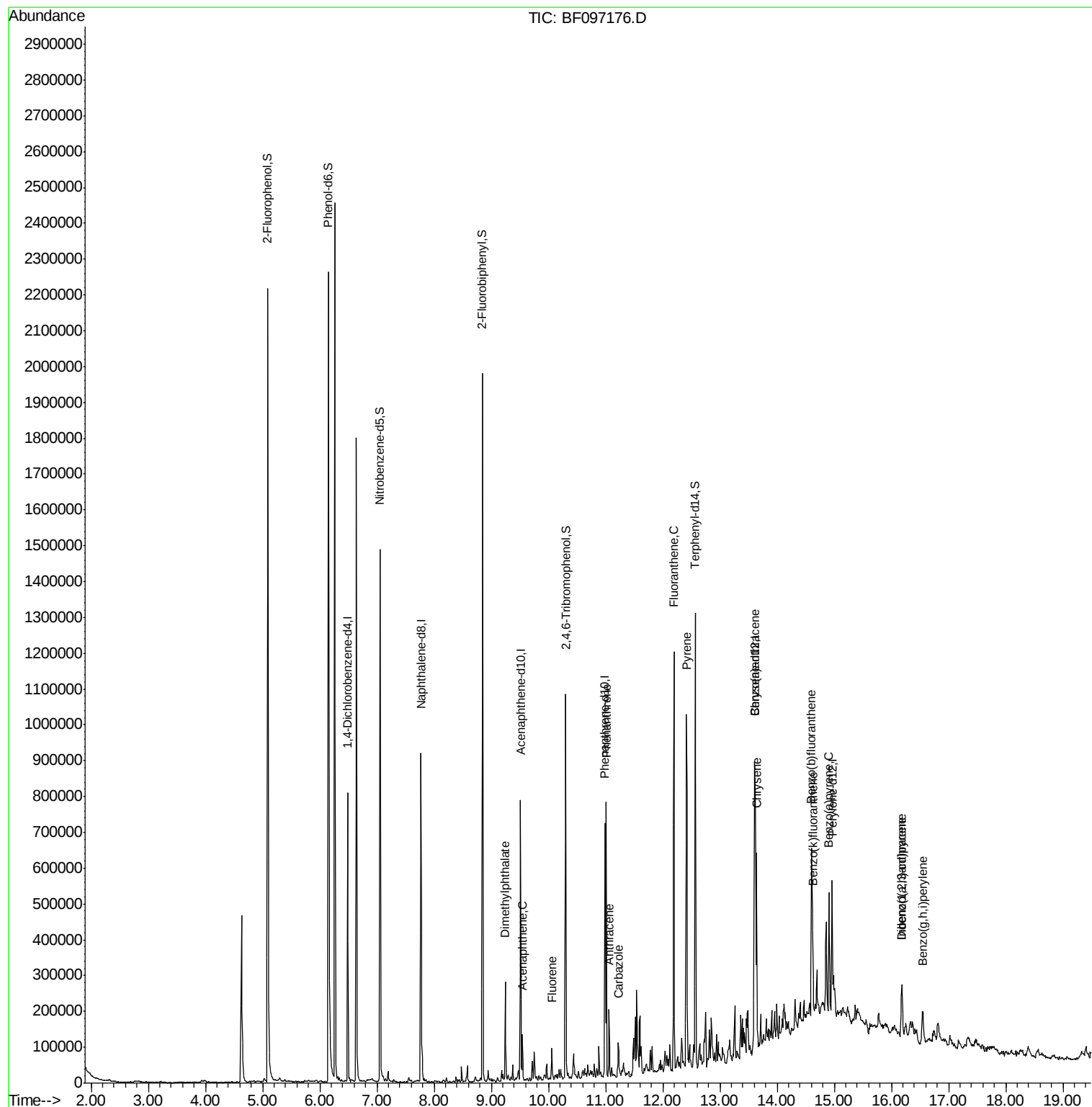
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
Data File : BF097176.D  
Acq On : 29 Jul 2017 1:37  
Operator : SJ/JU  
Sample : I4456-09  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

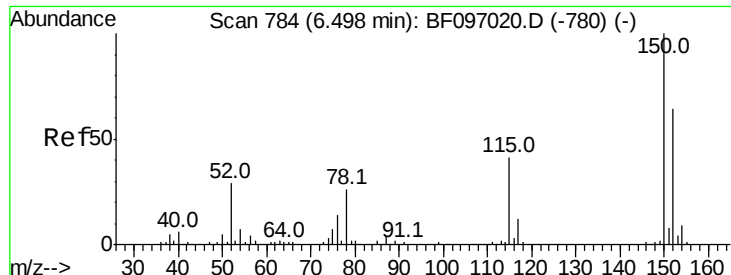
Instrument :  
BNA\_F  
ClientSampled :  
TP-15-SS-6

Manual Integrations  
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Quant Time: Jul 31 15:44:17 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 14:11:51 2017  
Response via : Initial Calibration





#1

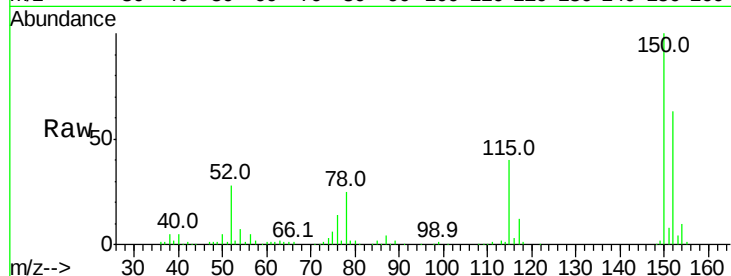
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 126.2 | 189.2 |
| 115     | 63.5  | 52.2  | 78.2  |

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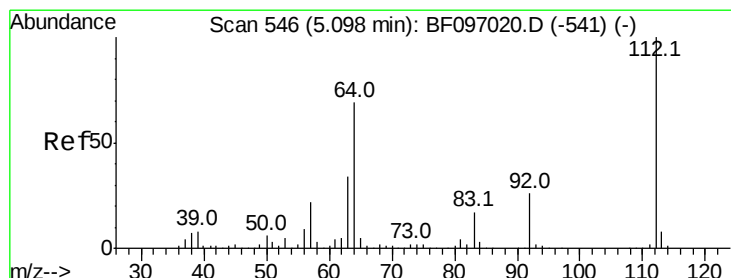
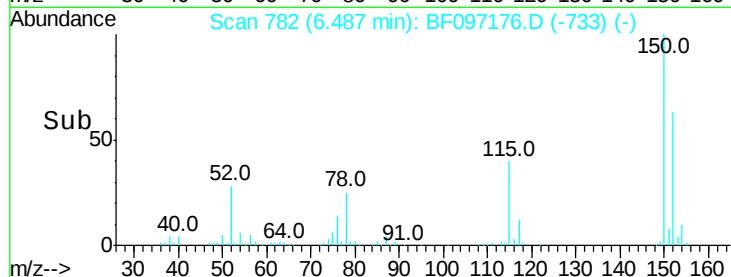
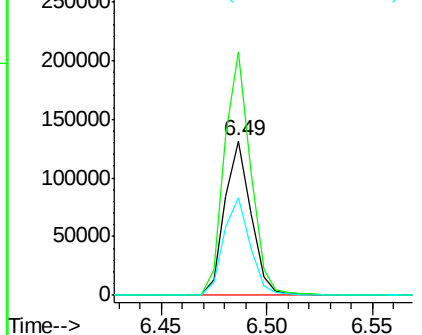


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

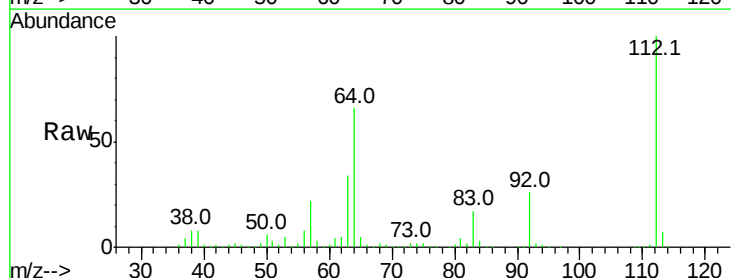
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 92.283 ng  
RT: 5.09 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.5  | 46.0  | 69.0  |
| 63      | 34.1  | 23.4  | 35.0  |

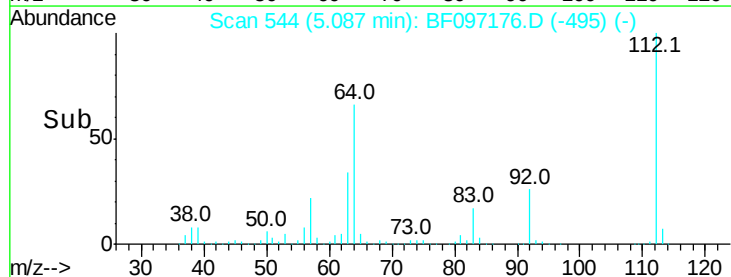
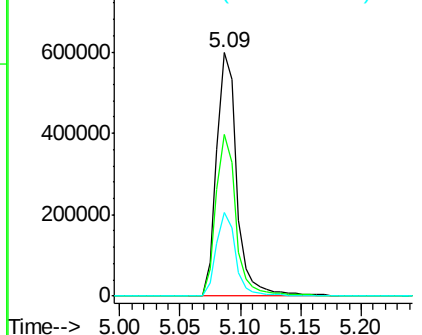


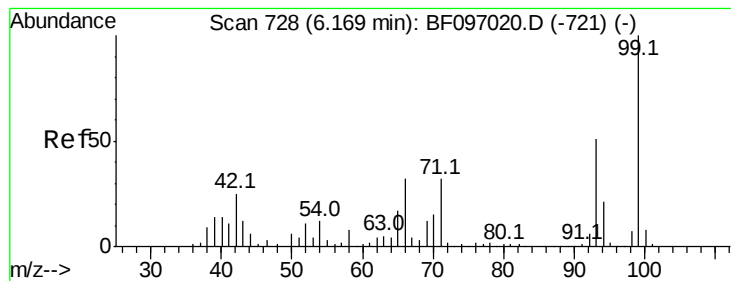
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 99.095 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097176.D

Acq: 29 Jul 2017 1:37

Instrument :

BNA\_F

ClientSampleId :

TP-15-SS-6

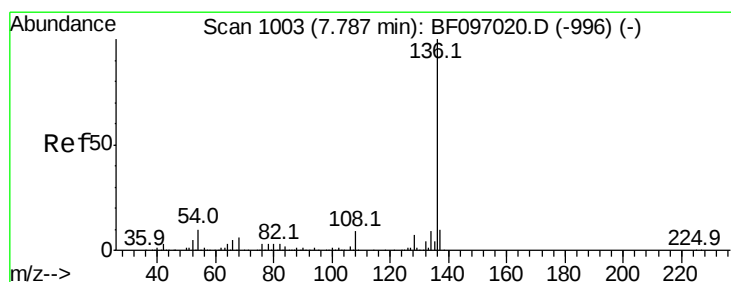
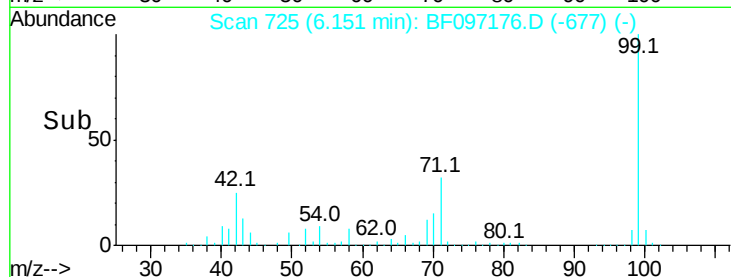
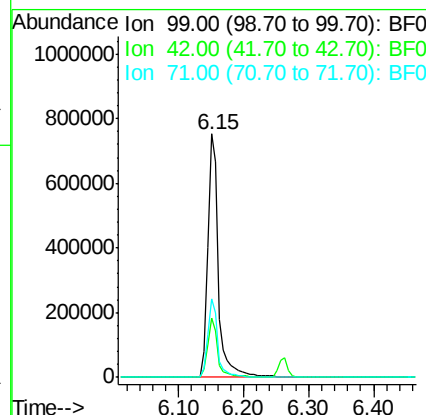
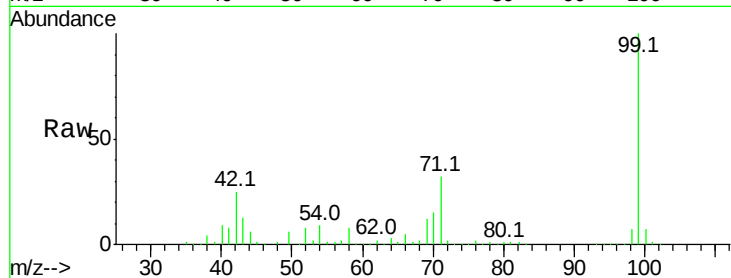
Tot Ion: 99 Resp: 847220

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 24.6  | 13.5  | 20.3# |
| 71  | 32.4  | 24.5  | 36.7  |

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.77 min Scan# 1000

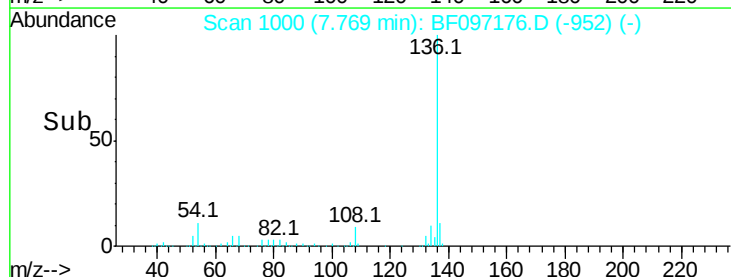
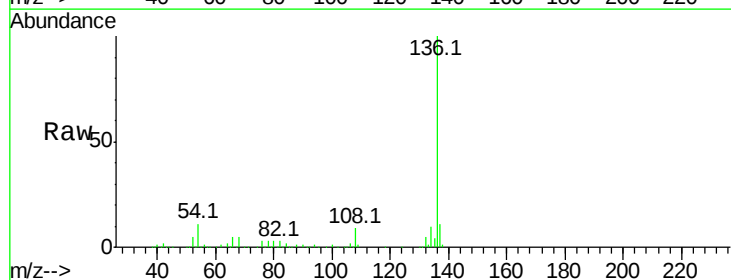
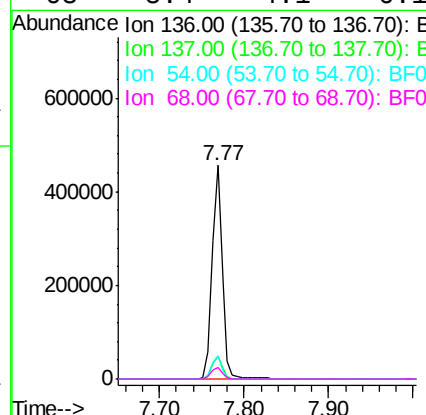
Delta R.T. -0.02 min

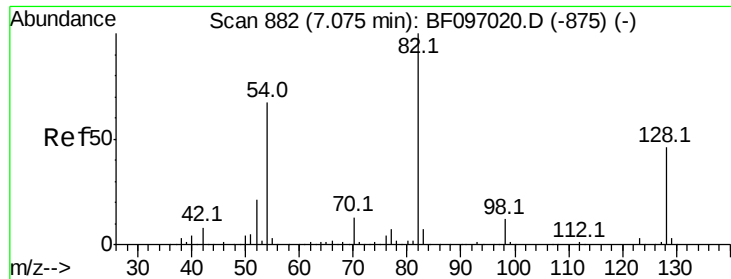
Lab File: BF097176.D

Acq: 29 Jul 2017 1:37

Tgt Ion: 136 Resp: 385420

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.5   | 12.7  |
| 54  | 10.6  | 4.9   | 7.3#  |
| 68  | 5.4   | 4.1   | 6.1   |





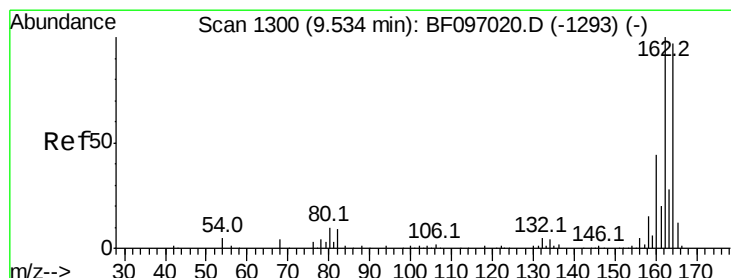
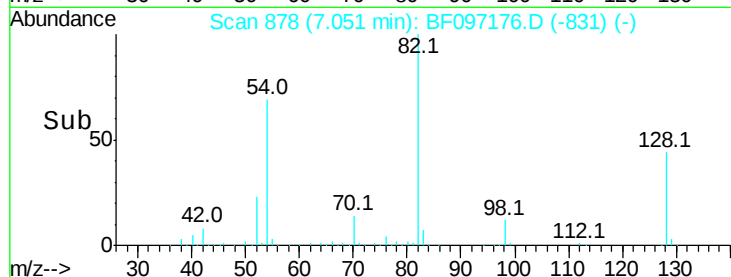
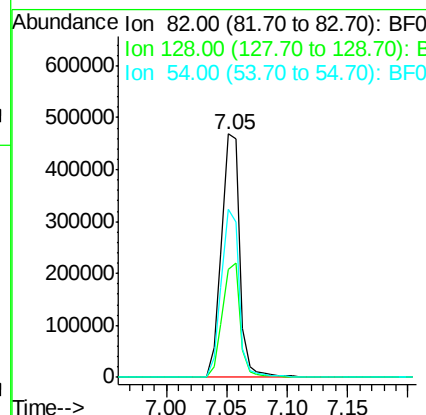
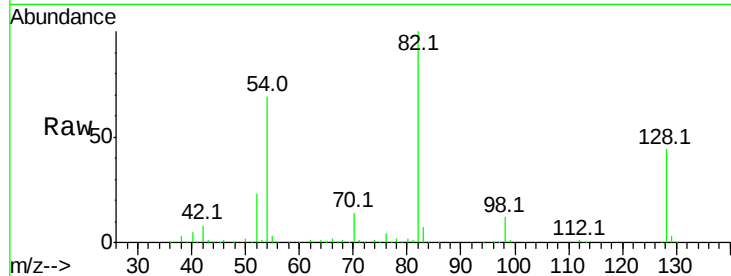
#23  
 Nitrobenzene-d5  
 Concen: 74.147 ng  
 RT: 7.05 min Scan# 878  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.4  | 34.0  | 51.0  |
| 54      | 69.2  | 42.2  | 63.2# |

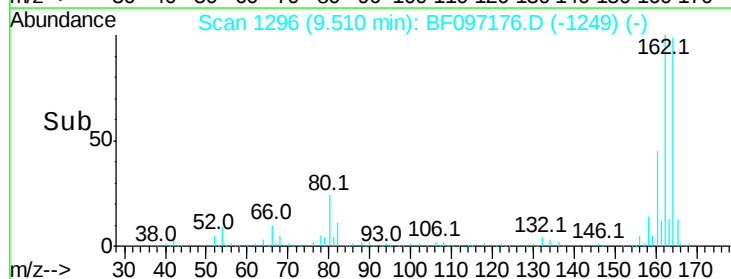
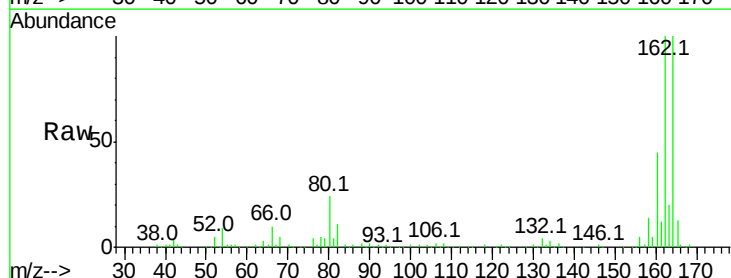
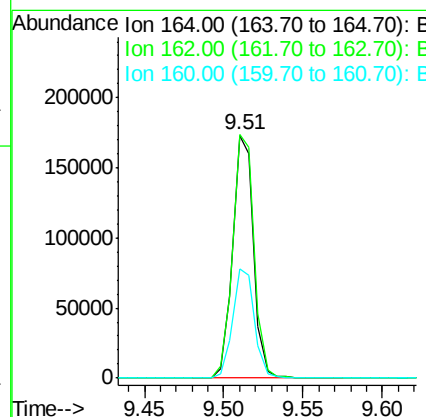
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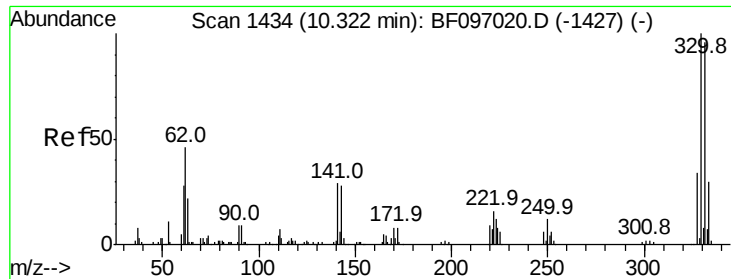
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.51 min Scan# 1296  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.2 | 82.6  | 123.8 |
| 160     | 45.2  | 36.2  | 54.2  |





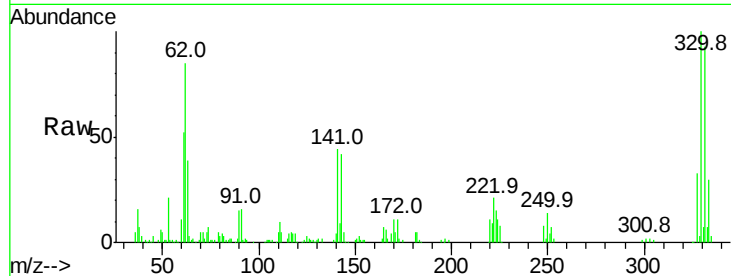
#41  
 2,4,6-Tribromophenol  
 Concen: 81.731 ng  
 RT: 10.30 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-15-SS-6

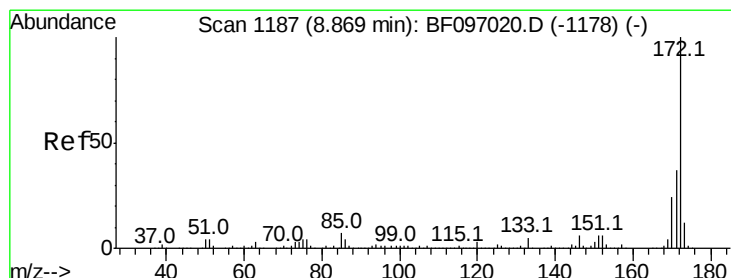
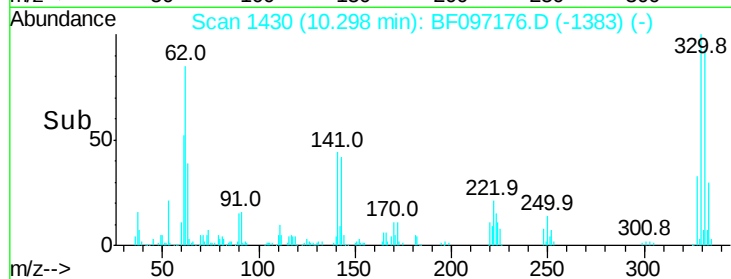
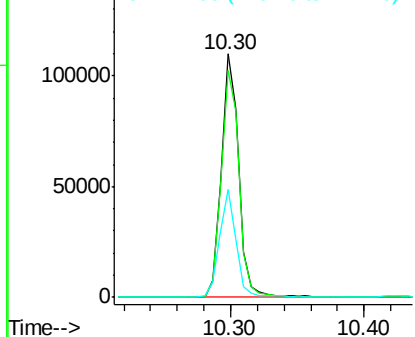
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.5  | 76.6 | 115.0 |       |
| 141     | 43.0  | 31.4 | 47.2  |       |

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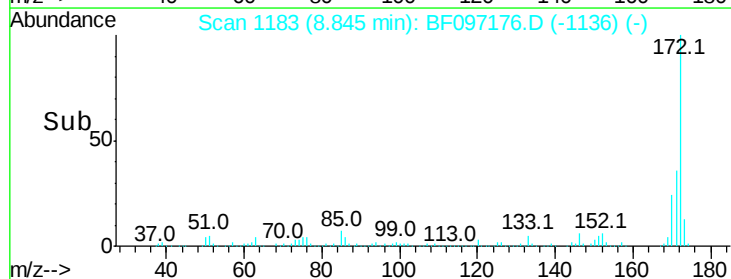
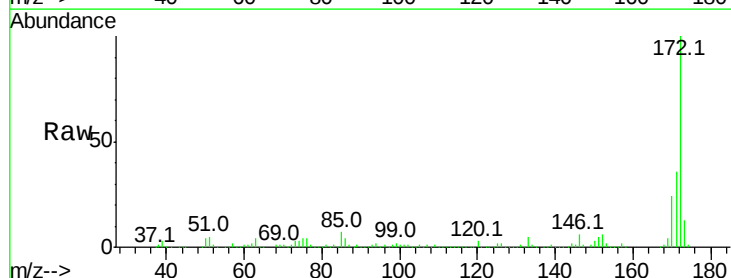
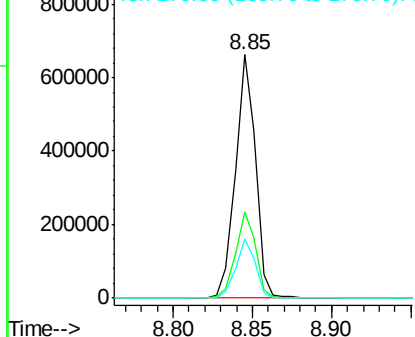
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

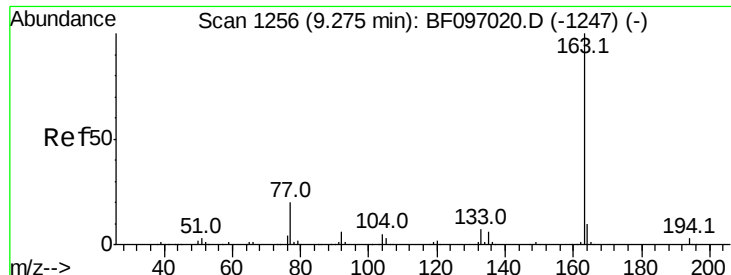


#44  
 2-Fluorobiphenyl  
 Concen: 62.700 ng  
 RT: 8.85 min Scan# 1183  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.6  | 29.6 | 44.4  |       |
| 170     | 24.1  | 19.8 | 29.8  |       |

Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





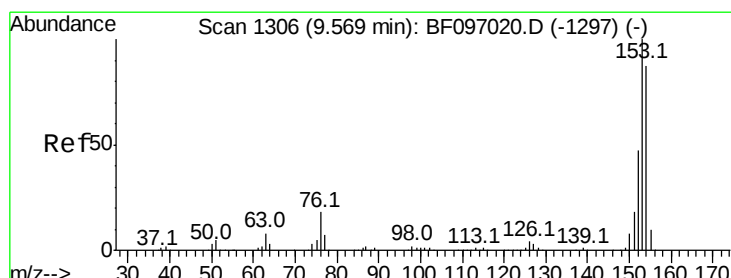
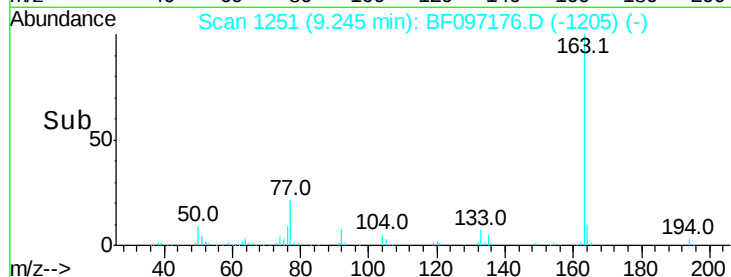
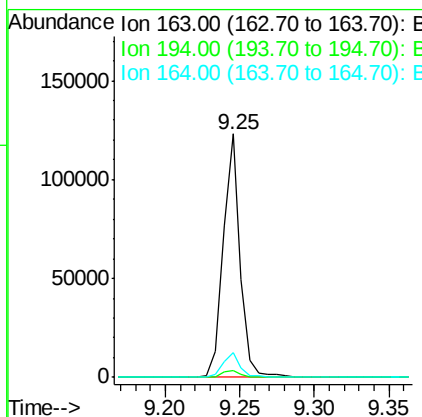
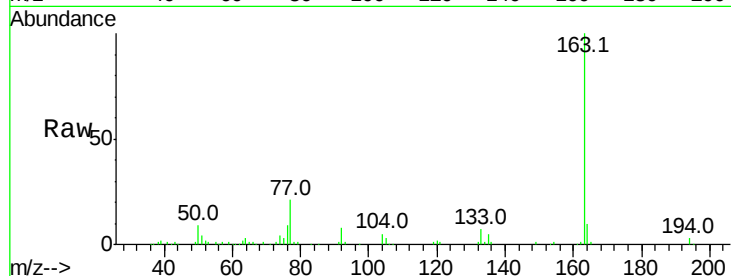
#49  
Dimethylphthalate  
Concen: 8.248 ng  
RT: 9.25 min Scan# 1251  
Delta R.T. -0.03 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15-SS-6

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.0   | 2.6  | 4.0   |       |
| 164     | 10.3  | 8.4  | 12.6  |       |

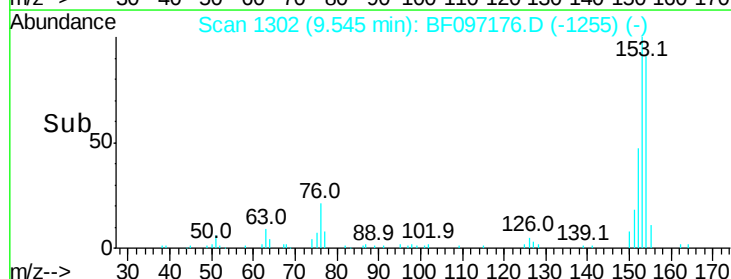
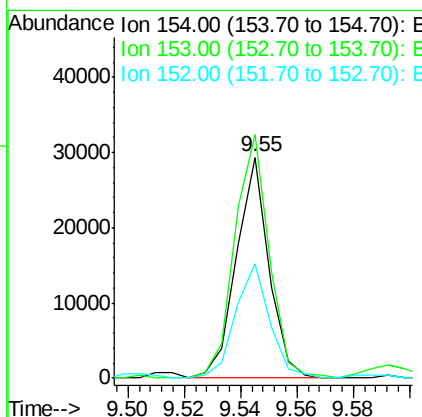
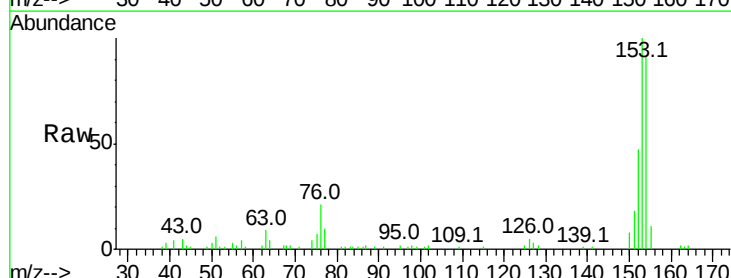
Manual Integrations  
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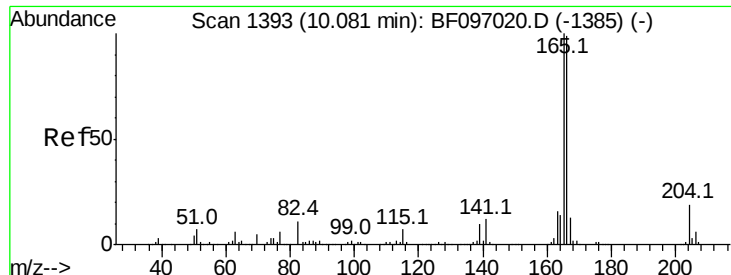
Sohil  
7/31/2017 6:52:26 PM



#51  
Acenaphthene  
Concen: 2.634 ng  
RT: 9.55 min Scan# 1302  
Delta R.T. -0.02 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 110.2 | 90.5 | 135.7 |       |
| 152     | 51.5  | 43.6 | 65.4  |       |





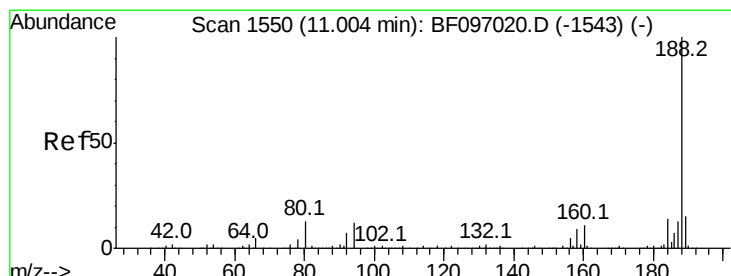
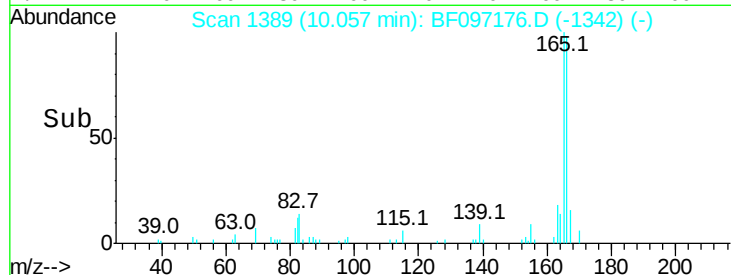
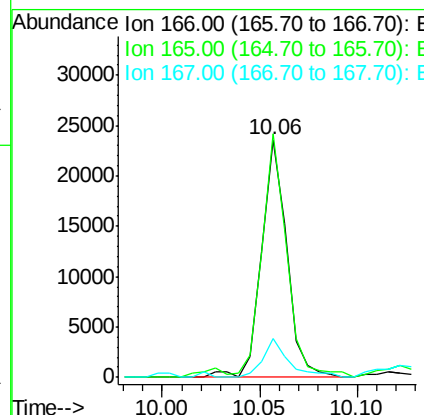
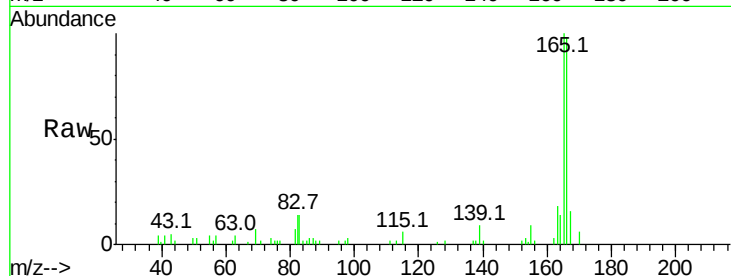
#57  
**Fluorene**  
 Concen: 2.382 ng  
 RT: 10.06 min Scan# 1389  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 102.5 | 78.8  | 118.2 |
| 167     | 16.1  | 10.6  | 16.0  |

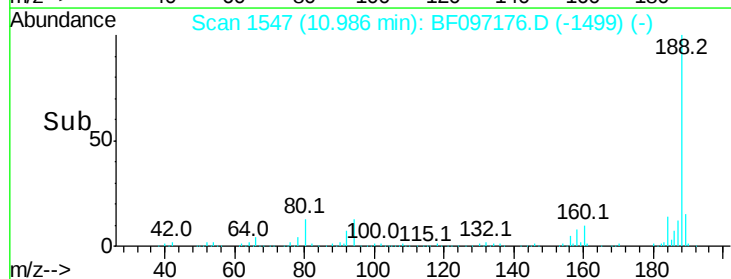
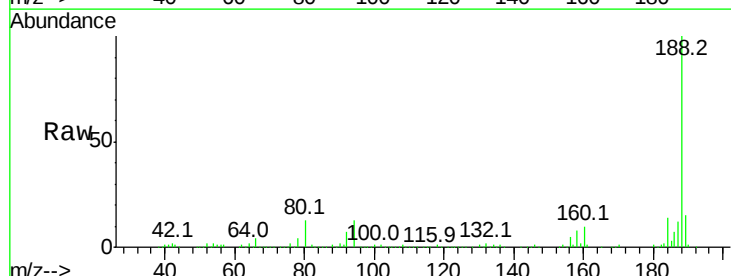
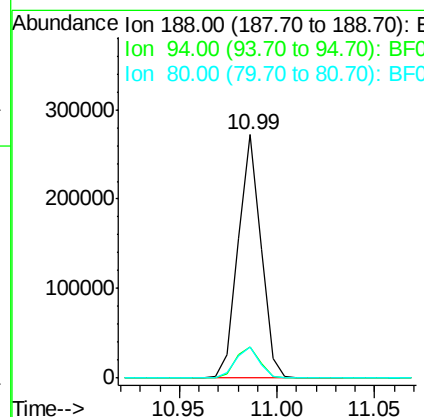
Manual Integrations  
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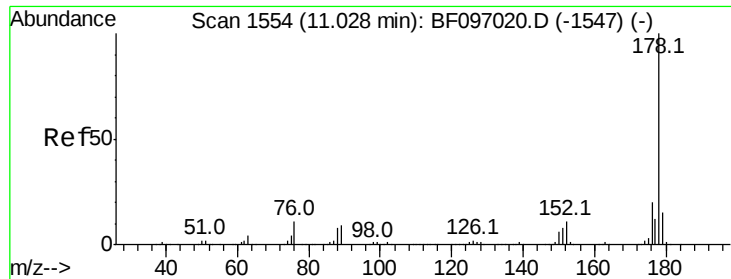
Sohil  
 7/31/2017 6:52:26 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 10.99 min Scan# 1547  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.6  | 9.4   | 14.2  |
| 80      | 12.8  | 10.2  | 15.2  |





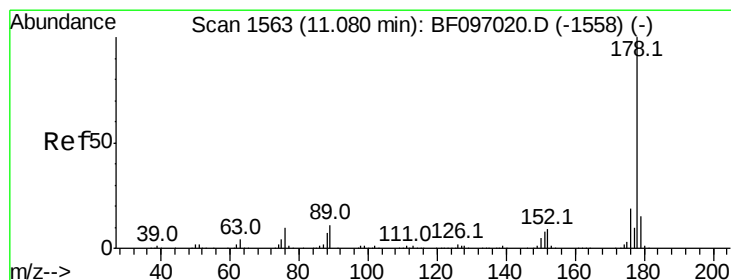
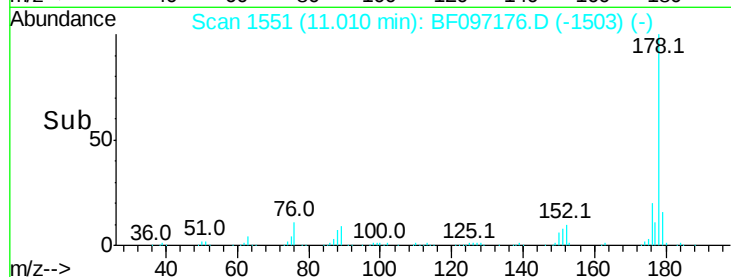
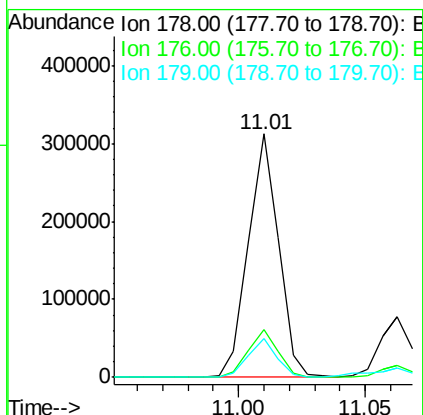
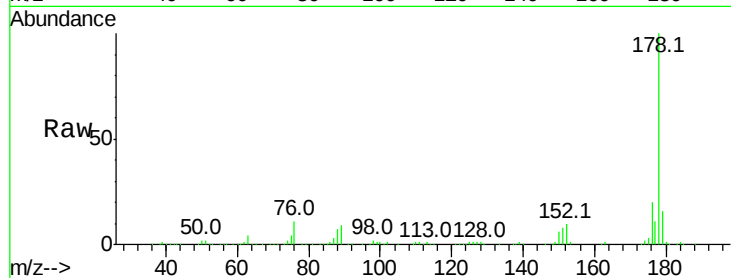
#70  
Phenanthrene  
Concen: 22.037 ng  
RT: 11.01 min Scan# 1551  
Delta R.T. -0.02 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 16.2  | 24.4  |
| 179     | 15.8  | 12.6  | 19.0  |

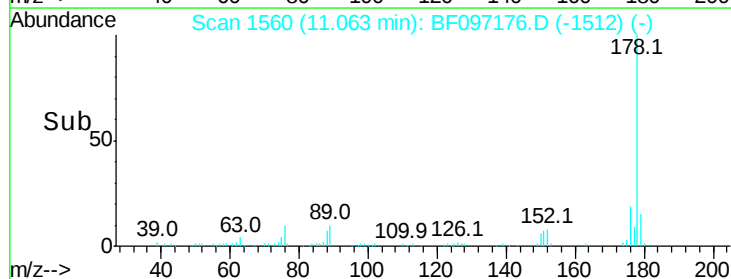
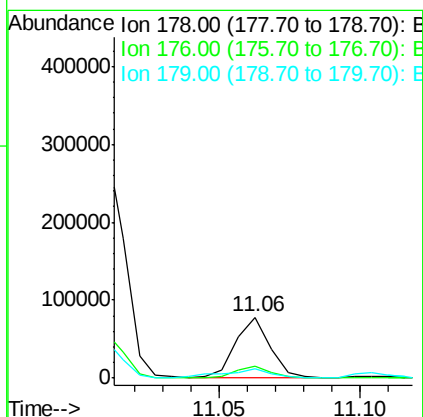
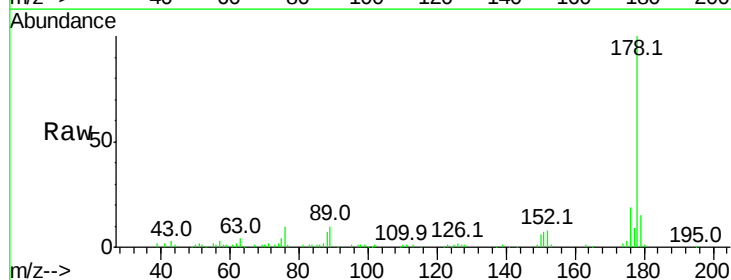
Manual Integrations  
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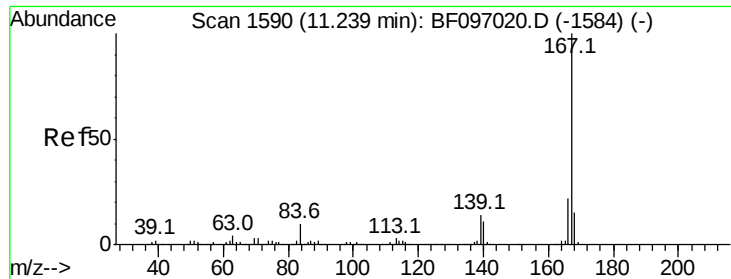
Sohil  
7/31/2017 6:52:26 PM



#71  
Anthracene  
Concen: 5.354 ng  
RT: 11.06 min Scan# 1560  
Delta R.T. -0.02 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.8  | 23.8  |
| 179     | 14.6  | 12.7  | 19.1  |





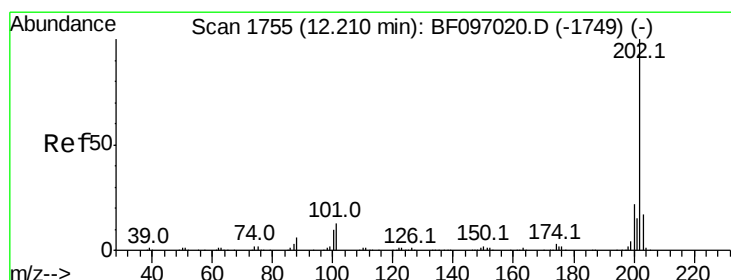
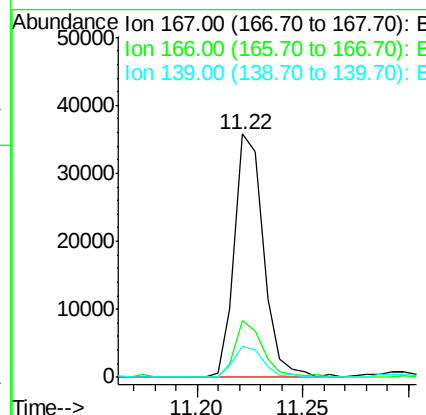
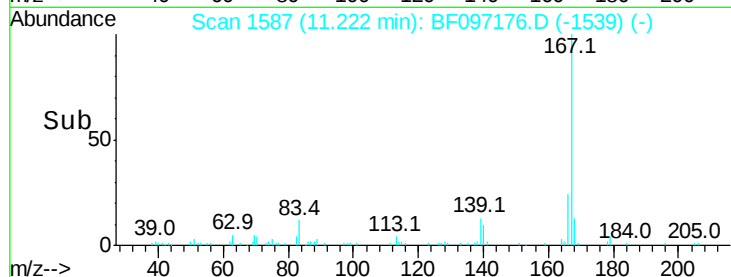
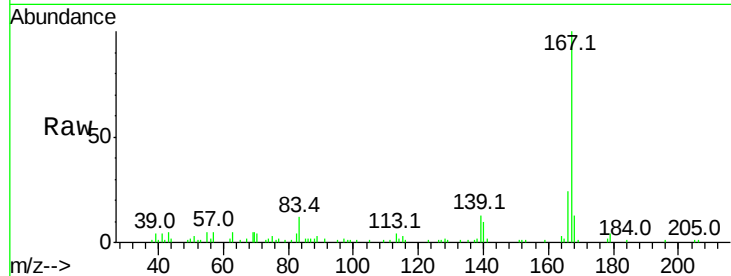
#72  
 Carbazole  
 Concen: 2.846 ng  
 RT: 11.22 min Scan# 1587  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15-SS-6

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 167     | 100   |      |       |       |
| 166     | 23.5  | 18.1 | 27.1  |       |
| 139     | 13.0  | 11.7 | 17.5  |       |

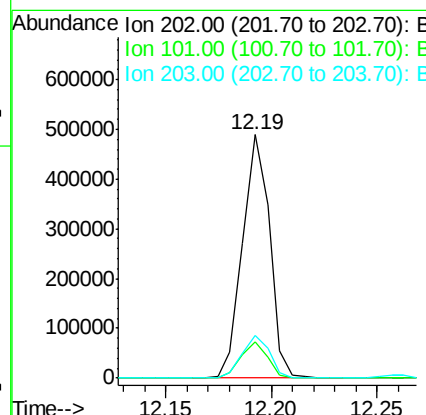
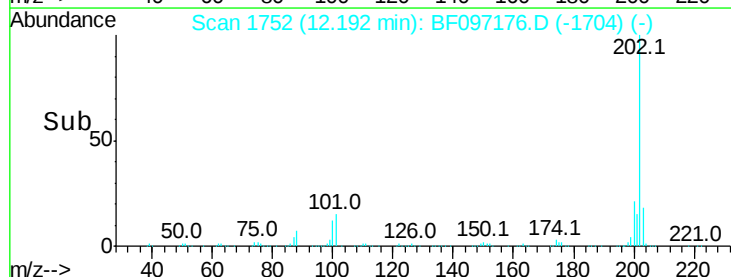
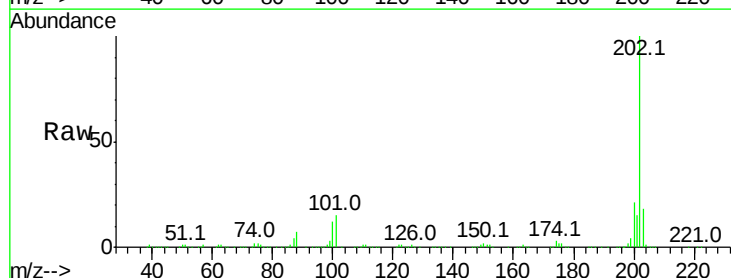
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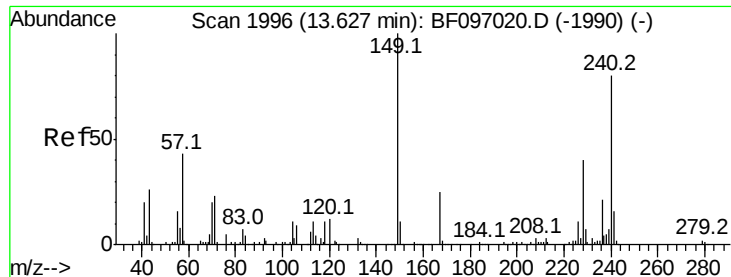
Sohil  
 7/31/2017 6:52:26 PM



#74  
 Fluoranthene  
 Concen: 37.430 ng  
 RT: 12.19 min Scan# 1752  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 15.0  | 0.0  | 33.2  |       |
| 203     | 17.6  | 0.0  | 38.1  |       |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BF097176.D

Acq: 29 Jul 2017 1:37

Instrument :

BNA\_F

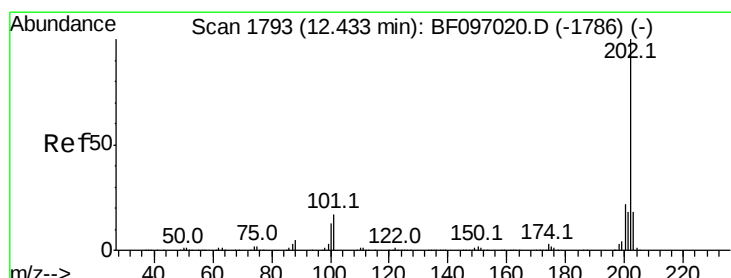
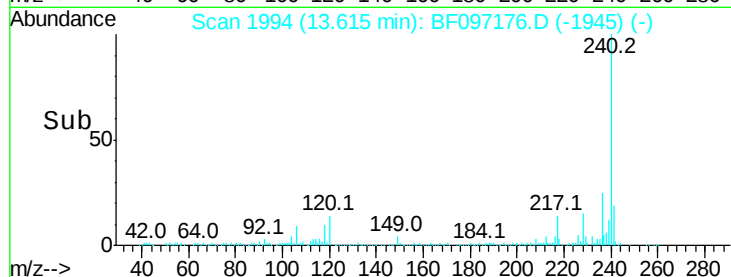
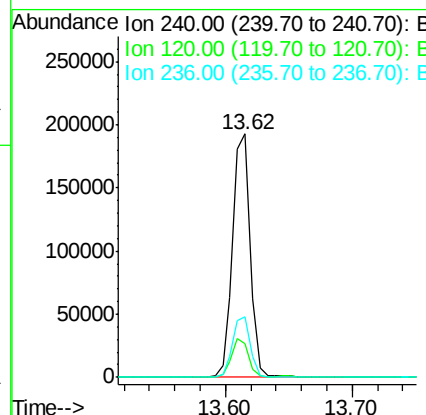
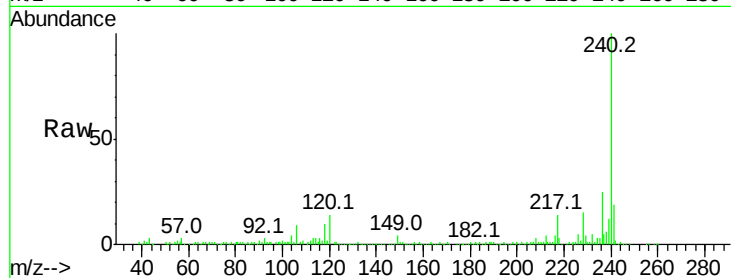
ClientSampled :

TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.8  | 5.8   | 8.8#  |
| 236     | 25.1  | 20.5  | 30.7  |

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#77

Pyrene

Concen: 25.286 ng

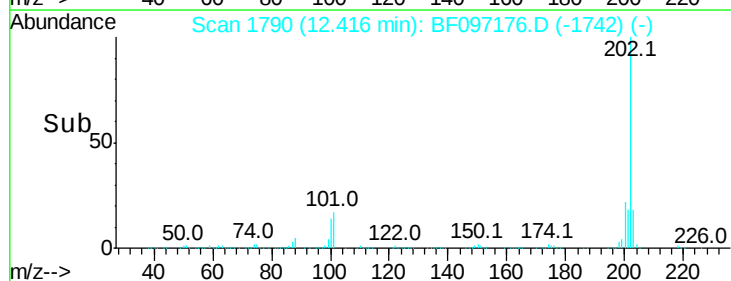
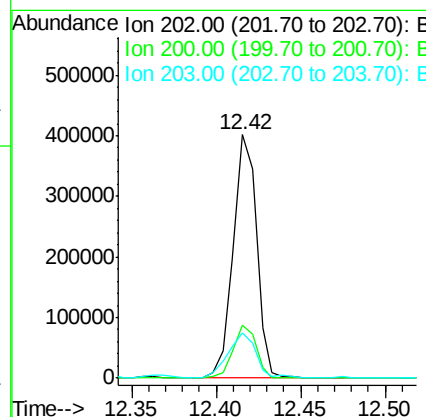
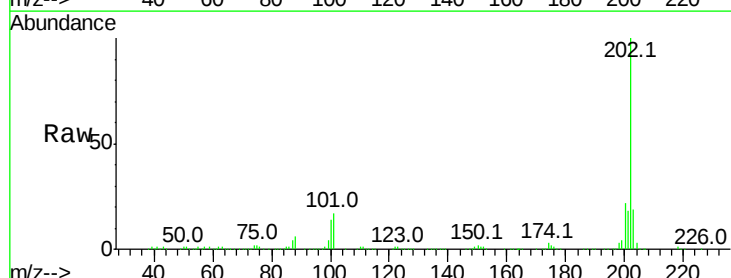
RT: 12.42 min Scan# 1790

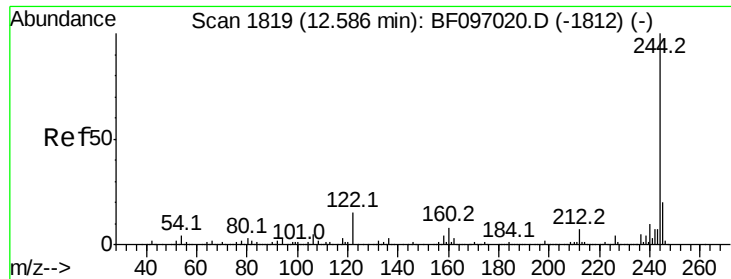
Delta R.T. -0.02 min

Lab File: BF097176.D

Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.7  | 17.6  | 26.4  |
| 203     | 18.8  | 14.4  | 21.6  |





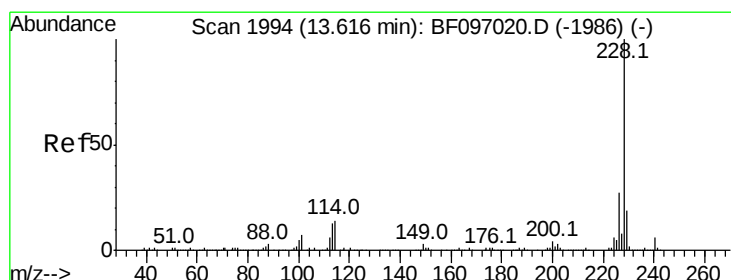
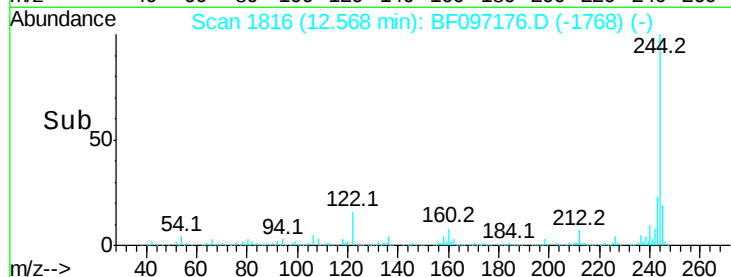
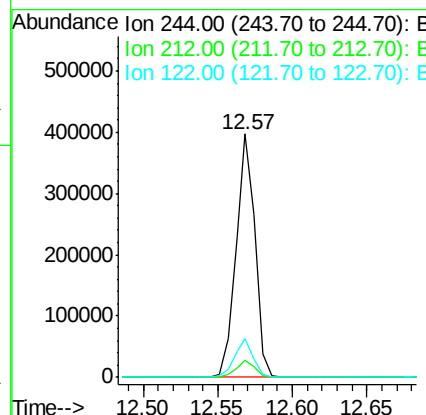
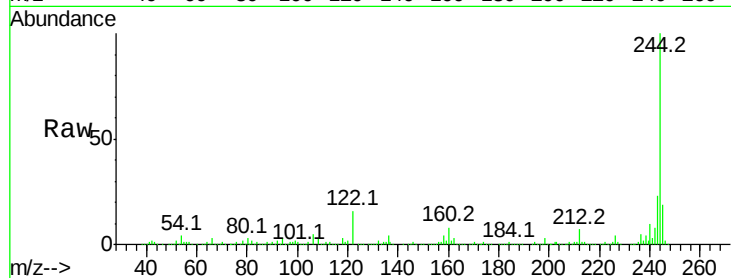
#78  
 Terphenyl-d14  
 Concen: 38.994 ng  
 RT: 12.57 min Scan# 1816  
 Delta R.T. -0.02 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.0   | 9.0   |
| 122     | 16.2  | 10.3  | 15.5  |

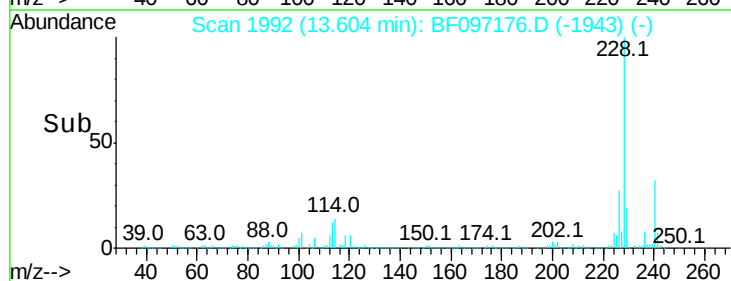
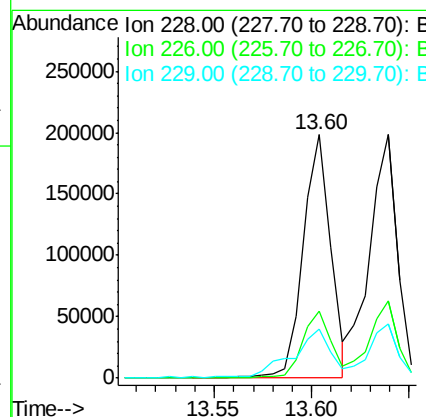
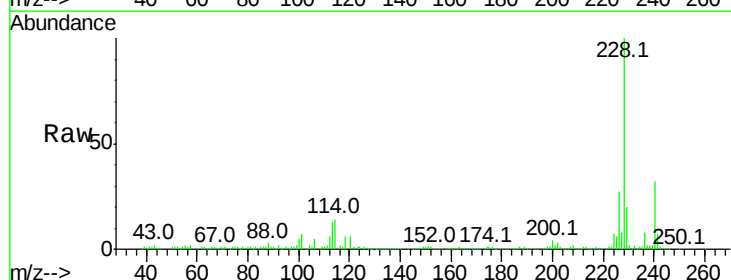
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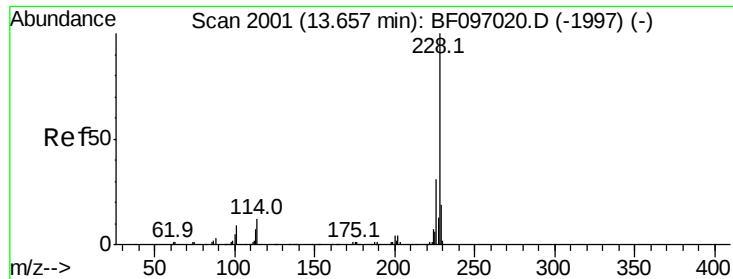
Sohil  
 7/31/2017 6:52:26 PM



#80  
 Benzo(a)anthracene  
 Concen: 15.980 ng  
 RT: 13.60 min Scan# 1992  
 Delta R.T. -0.01 min  
 Lab File: BF097176.D  
 Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.4  | 22.6  | 33.8  |
| 229     | 20.0  | 16.3  | 24.5  |





#82

Chrysene

Concen: 16.813 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097176.D

Acq: 29 Jul 2017 1:37

Instrument :

BNA\_F

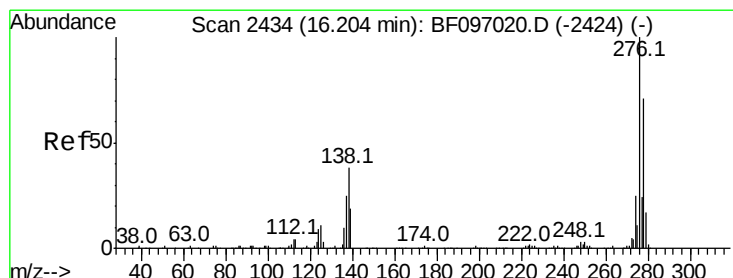
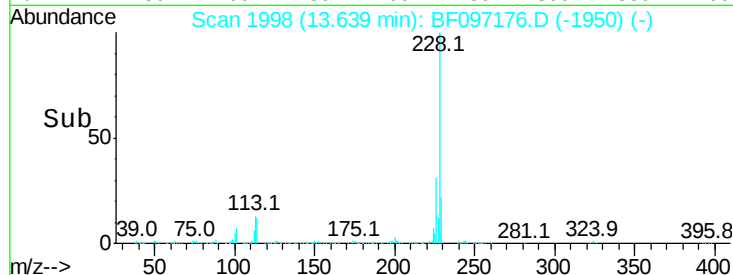
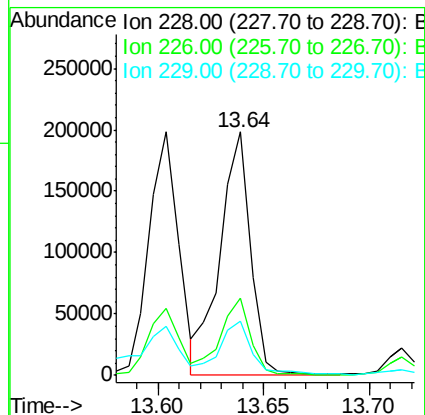
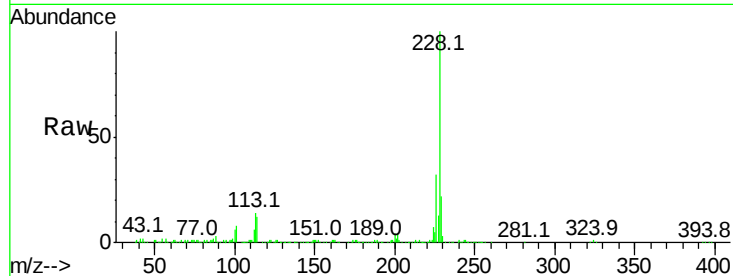
ClientSampleId :

TP-15-SS-6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 197426 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.7  | 24.9  | 37.3   |
| 229       | 22.3  | 15.8  | 23.6   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 6.764 ng

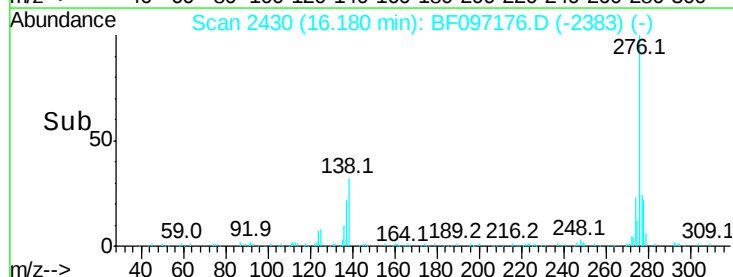
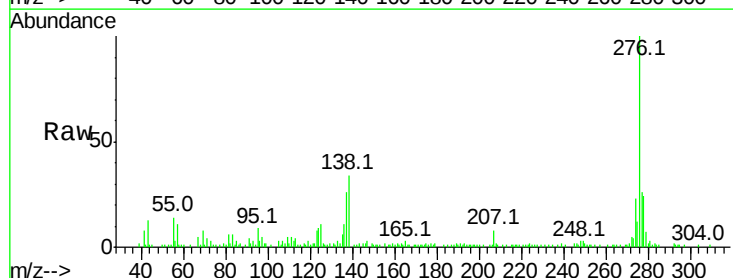
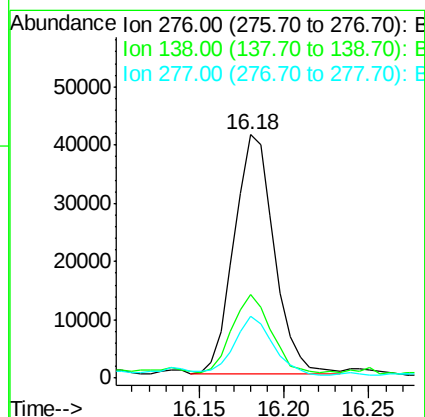
RT: 16.18 min Scan# 2430

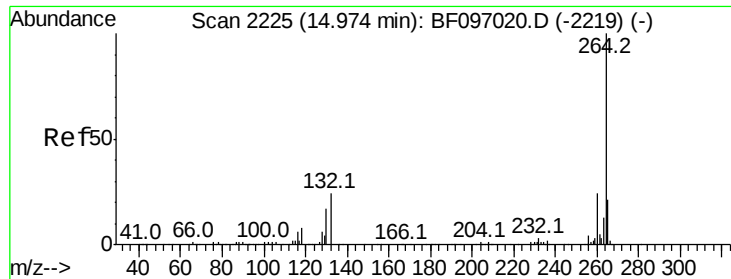
Delta R.T. -0.02 min

Lab File: BF097176.D

Acq: 29 Jul 2017 1:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 68106 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 33.0  | 27.8  | 41.6  |
| 277       | 25.4  | 20.2  | 30.4  |





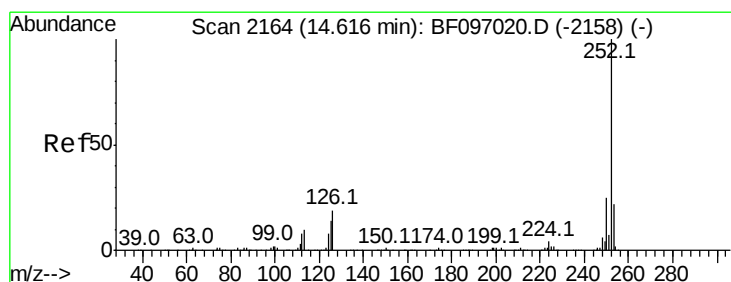
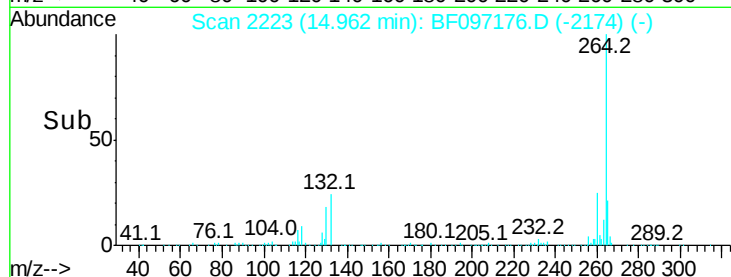
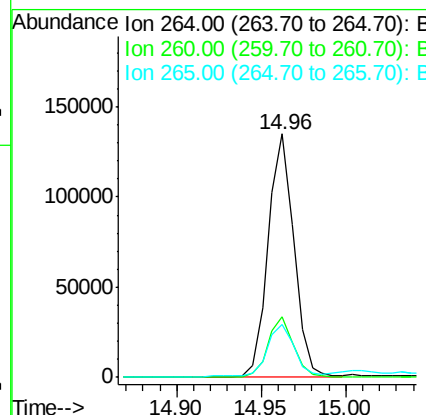
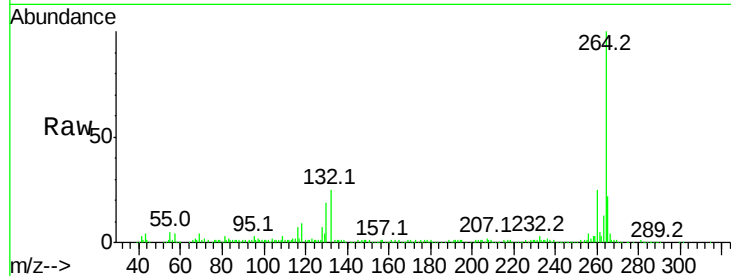
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 14.96 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.5  | 29.3  |
| 265     | 21.7  | 17.2  | 25.8  |

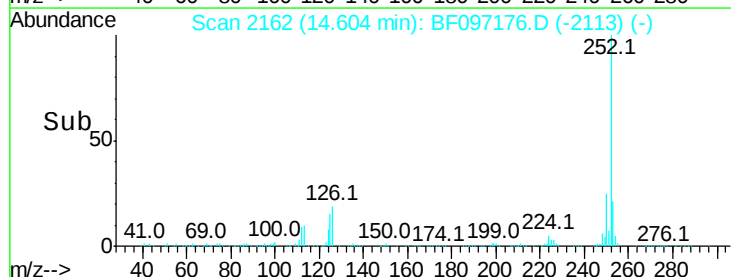
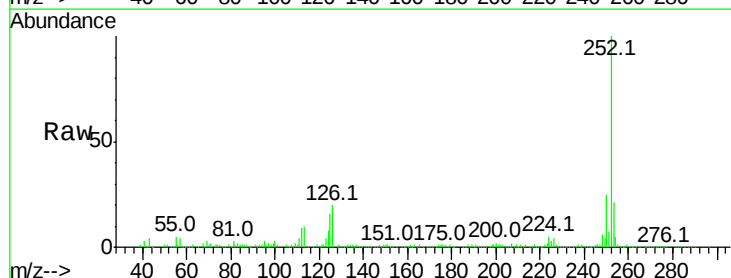
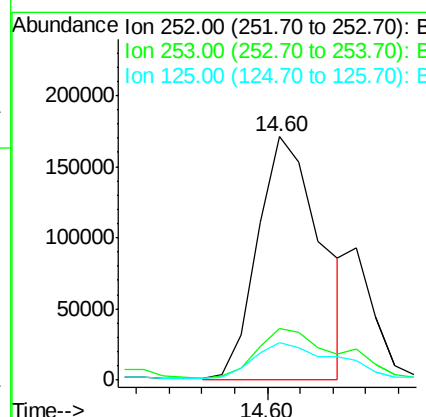
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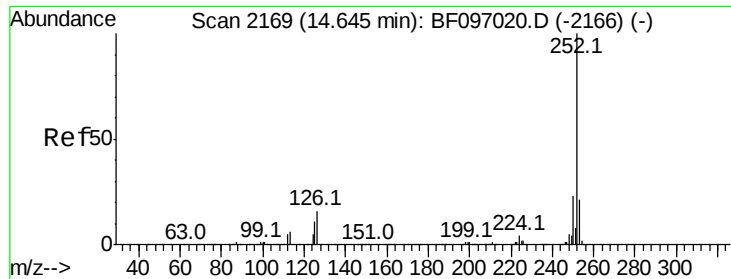
Sohil  
7/31/2017 6:52:26 PM



#87  
Benzo(b)fluoranthene  
Concen: 26.780 ng m  
RT: 14.60 min Scan# 2162  
Delta R.T. -0.01 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 18.1  | 27.1  |
| 125     | 15.6  | 9.8   | 14.8  |





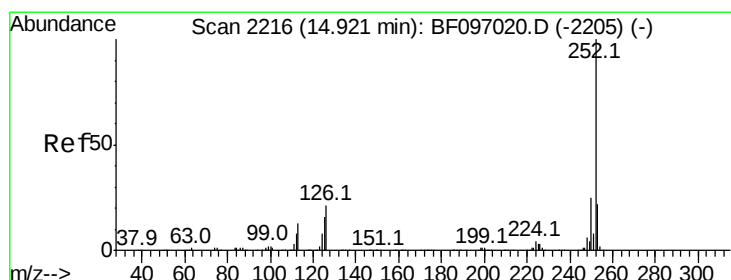
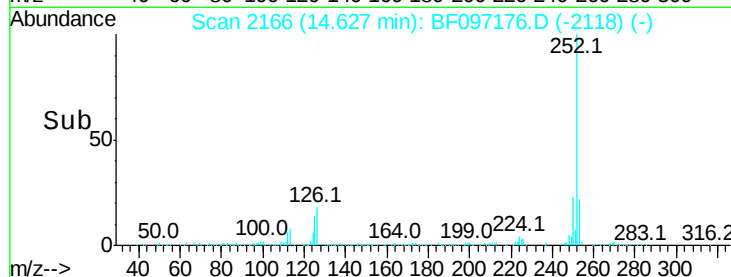
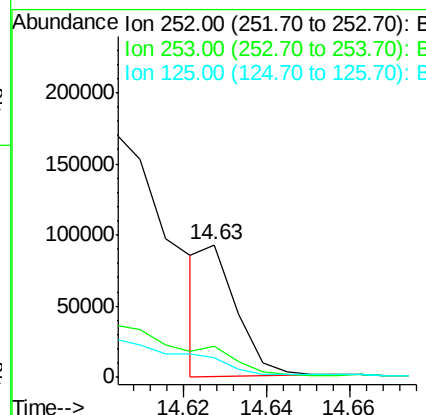
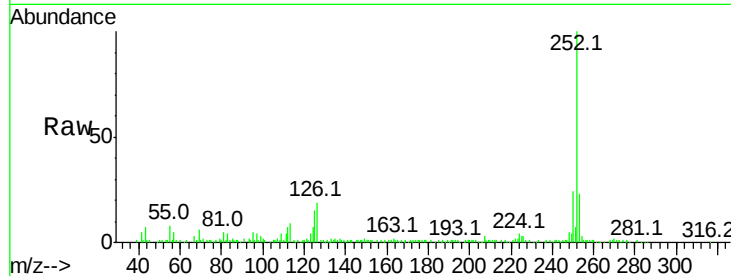
#88  
Benzo(k)fluoranthene  
Concen: 6.348 ng m  
RT: 14.63 min Scan# 2166  
Delta R.T. -0.02 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.4  | 27.6  |
| 125     | 15.0  | 13.1  | 19.7  |

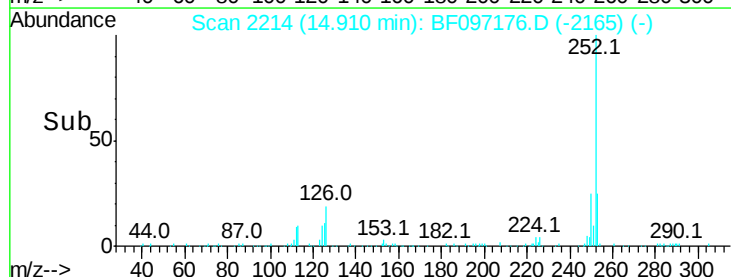
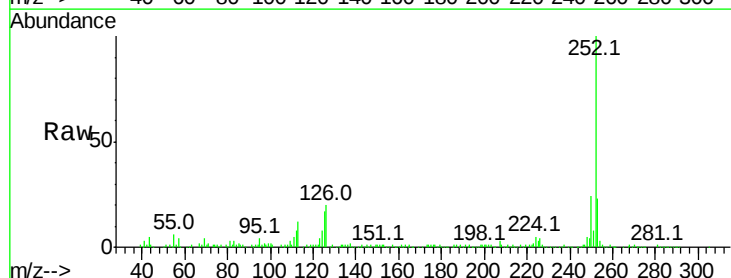
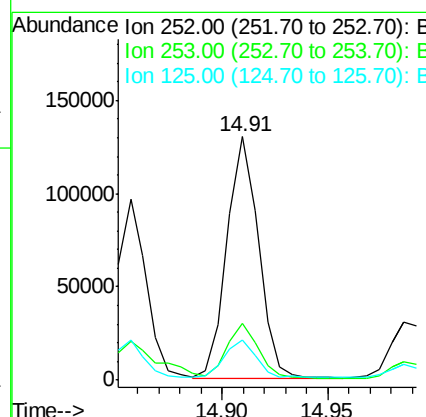
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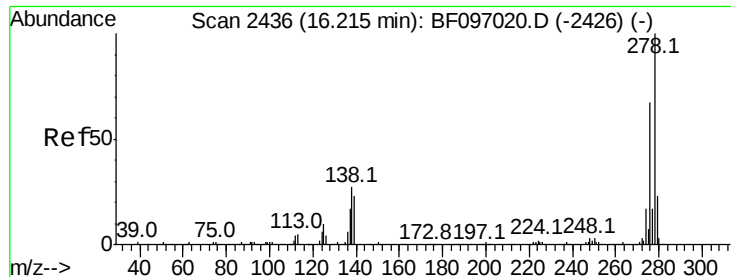
Sohil  
7/31/2017 6:52:26 PM



#89  
Benzo(a)pyrene  
Concen: 17.191 ng  
RT: 14.91 min Scan# 2214  
Delta R.T. -0.01 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.5  | 26.3  |
| 125     | 16.6  | 11.0  | 16.4  |





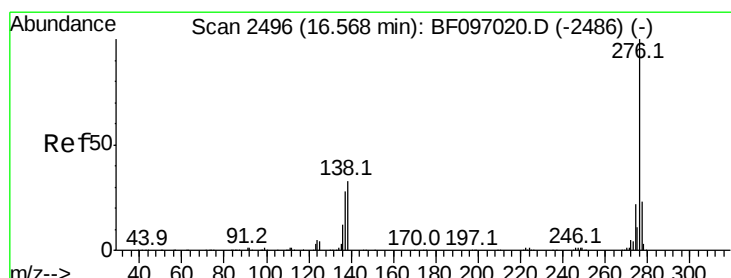
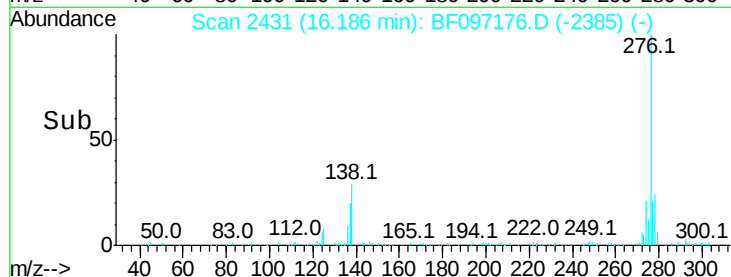
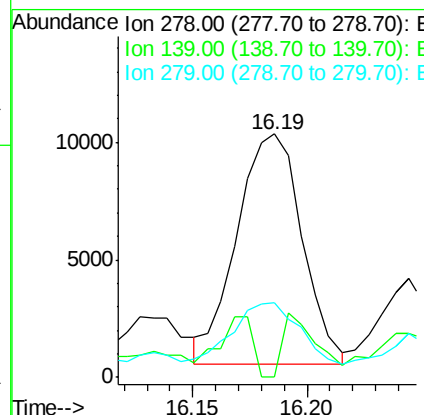
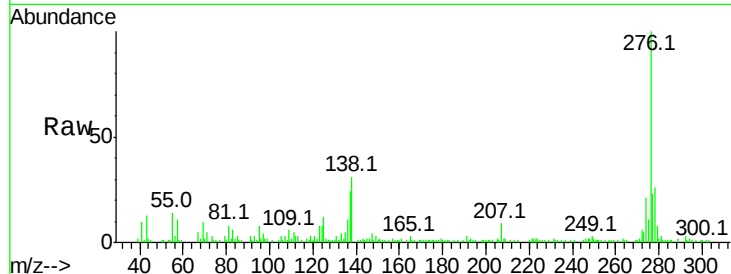
#90  
Dibenzo(a,h)anthracene  
Concen: 2.985 ng/mL  
RT: 16.19 min Scan# 2431  
Delta R.T. -0.03 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15-SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 16.6  | 24.8# |
| 279     | 30.9  | 19.3  | 28.9# |

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#91  
Benzo(g,h,i)perylene  
Concen: 9.454 ng/mL  
RT: 16.54 min Scan# 2492  
Delta R.T. -0.02 min  
Lab File: BF097176.D  
Acq: 29 Jul 2017 1:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 18.6  | 28.0  |
| 138     | 30.6  | 25.4  | 38.0  |

