

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090517\  
 Data File : BF098272.D  
 Acq On : 5 Sep 2017 15:04  
 Operator : SJ/JU  
 Sample : I5073-08  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-4-COMP

Manual Integrations  
 APPROVED

Sohil  
 9/6/2017 5:04:19 PM

Quant Time: Sep 06 01:35:13 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 106337   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.99  | 136  | 412657   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.73  | 164  | 180917   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 354332   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.85 | 240  | 239026   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.26 | 264  | 197536   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.31  | 112  | 774846   | 110.84 | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 1084258  | 114.15 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 645923   | 85.03  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.53 | 330  | 210015   | 133.79 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 947131   | 76.92  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.80 | 244  | 845705   | 73.78  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.46  | 163  | 126839   | 9.591  | ng    | 98       |
| 70) Phenanthrene            | 11.24 | 178  | 44811    | 2.373  | ng    | 95       |
| 74) Fluoranthene            | 12.43 | 202  | 89352    | 4.534  | ng    | 98       |
| 77) Pyrene                  | 12.66 | 202  | 97061    | 4.965  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.84 | 228  | 55708    | 3.889  | ng    | 96       |
| 82) Chrysene                | 13.87 | 228  | 46063m   | 3.232  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.62 | 276  | 25517    | 2.434  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 14.86 | 252  | 61806m   | 4.964  | ng    |          |
| 89) Benzo(a)pyrene          | 15.20 | 252  | 39242    | 3.560  | ng    | 98       |
| 91) Benzo(g,h,i)perylene    | 17.03 | 276  | 33586    | 3.587  | ng    | 92       |

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

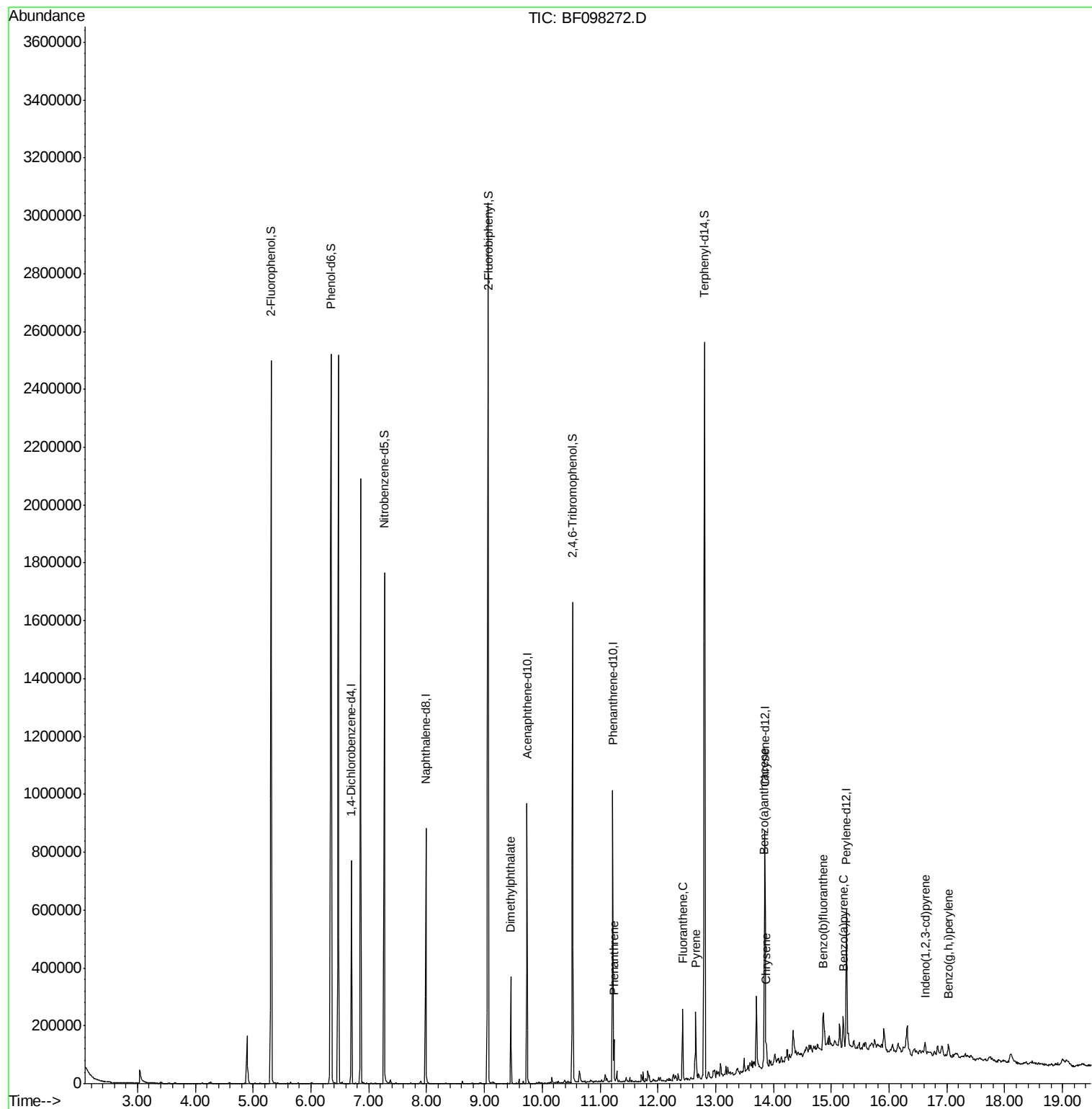
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090517\  
Data File : BF098272.D  
Acq On : 5 Sep 2017 15:04  
Operator : SJ/JU  
Sample : I5073-08  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

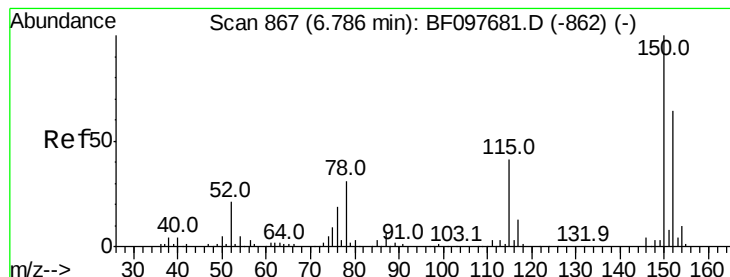
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-4-COMP

Manual Integrations  
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Quant Time: Sep 06 01:35:13 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 17:28:20 2017  
Response via : Initial Calibration





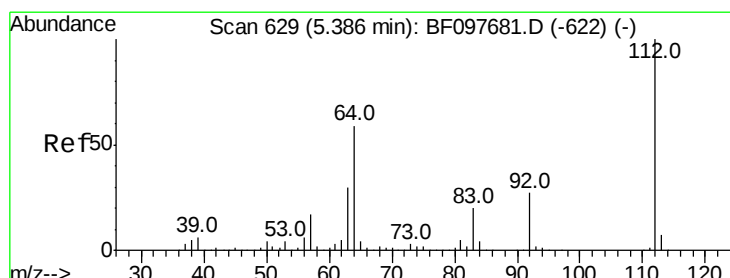
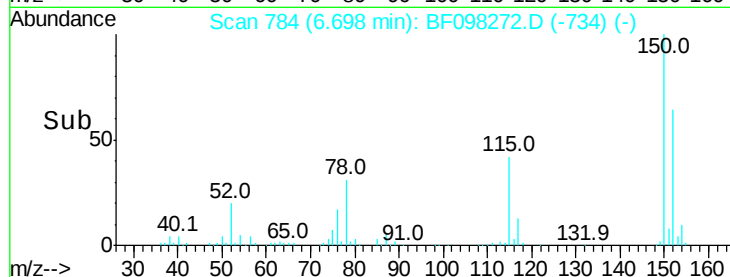
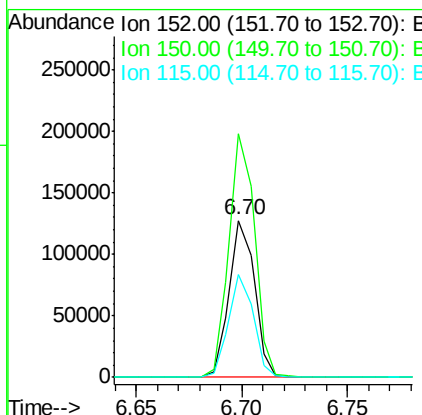
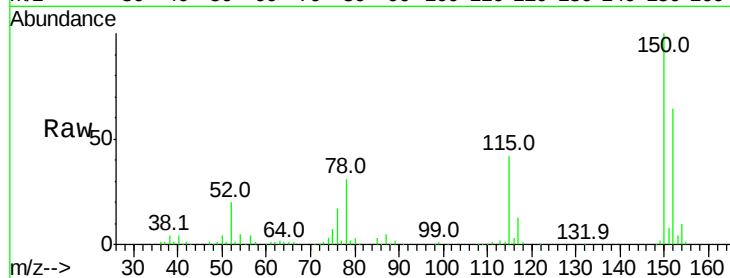
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.70 min Scan# 784  
 Delta R.T. -0.01 min  
 Lab File: BF098272.D  
 Acq: 5 Sep 2017 15:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-4-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 126.2 | 189.2 |
| 115     | 65.9  | 52.2  | 78.2  |

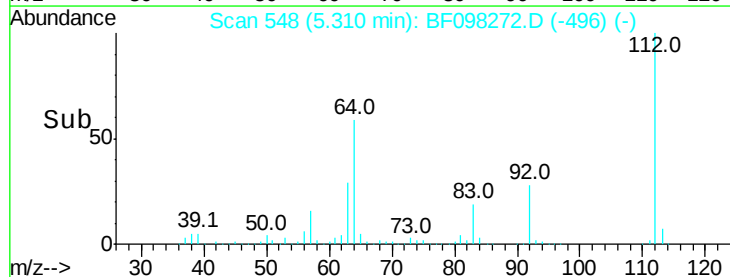
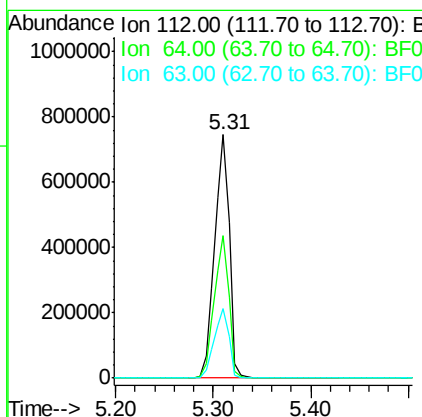
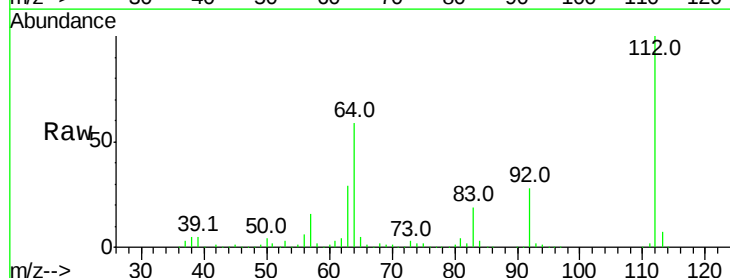
Manual Integrations  
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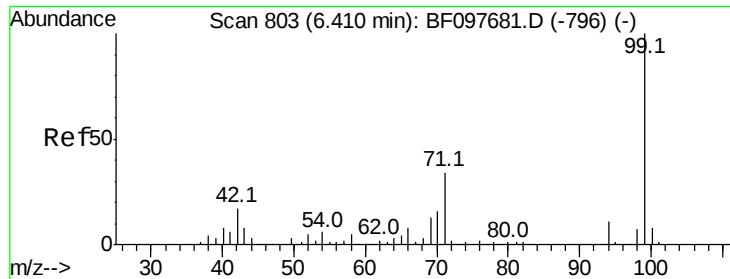
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#5  
 2-Fluorophenol  
 Concen: 110.836 ng  
 RT: 5.31 min Scan# 548  
 Delta R.T. 0.01 min  
 Lab File: BF098272.D  
 Acq: 5 Sep 2017 15:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.5  | 46.0  | 69.0  |
| 63      | 28.6  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 114.149 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

Instrument :

BNA\_F

ClientSampled :

TP-3-4-COMP

Tot Ion: 99 Resp: 1084258

Ion Ratio Lower Upper

99 100

42 14.1 13.5 20.3

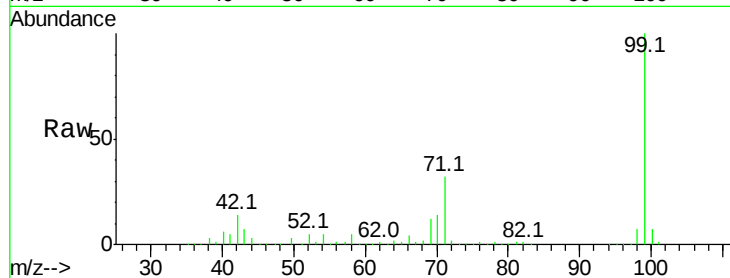
71 31.8 24.5 36.7

Manual Integrations

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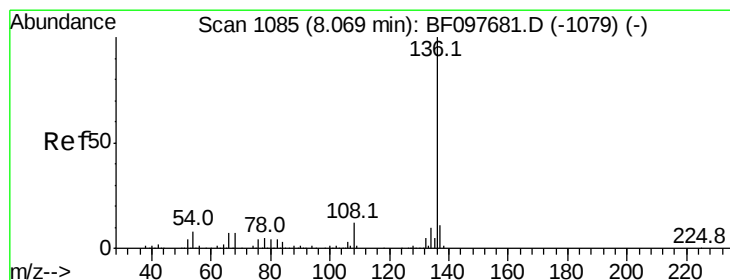
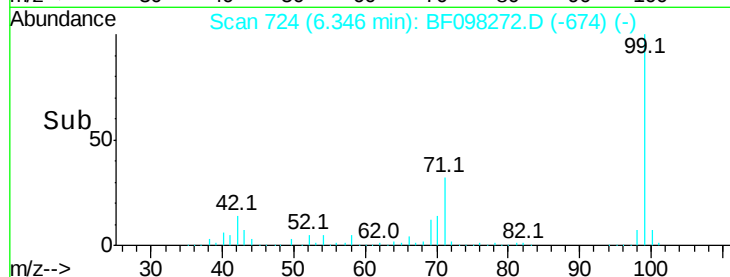
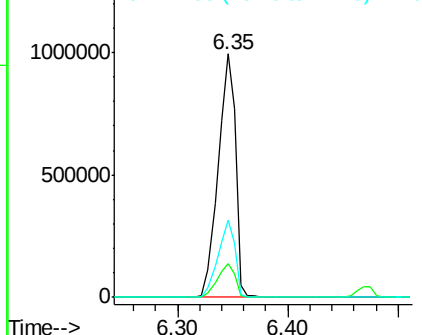
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1003

Delta R.T. 0.00 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

Tgt Ion: 136 Resp: 412657

Ion Ratio Lower Upper

136 100

137 10.3 8.5 12.7

54 6.7 4.9 7.3

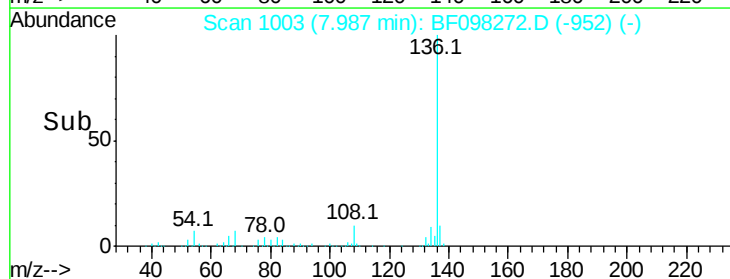
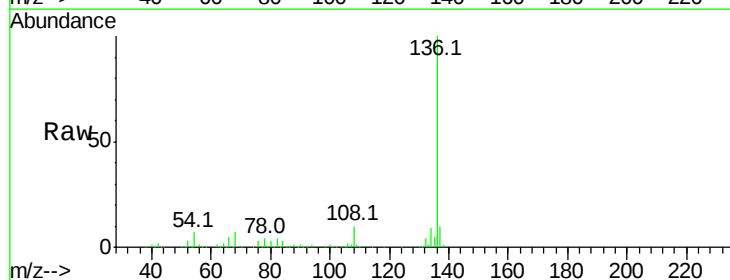
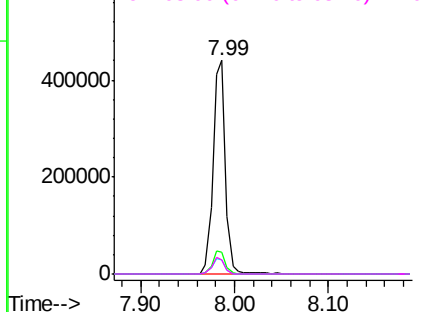
68 6.9 4.1 6.1#

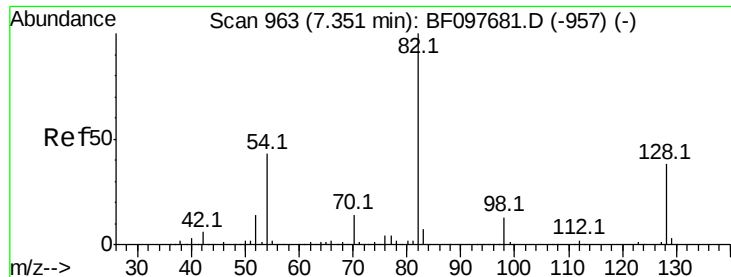
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





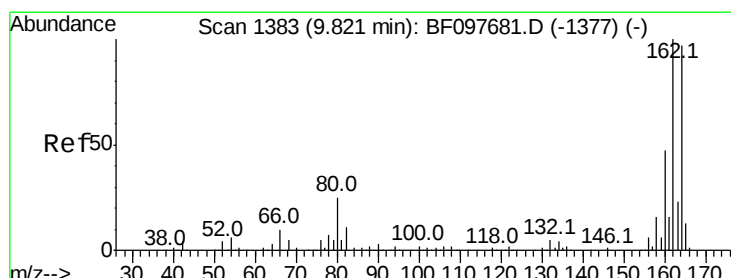
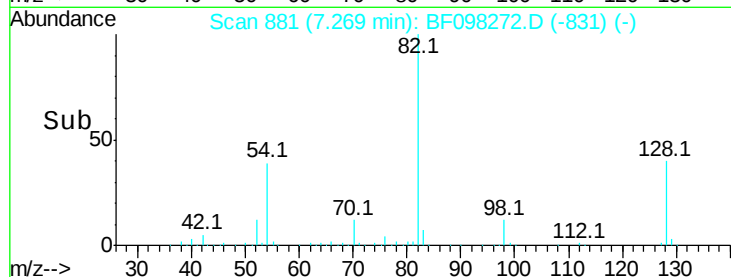
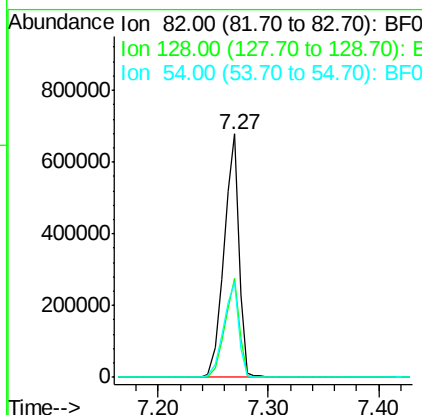
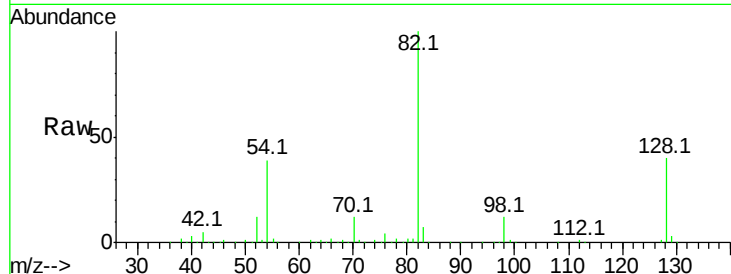
#23  
 Nitrobenzene-d5  
 Concen: 85.033 ng  
 RT: 7.27 min Scan# 881  
 Delta R.T. -0.01 min  
 Lab File: BF098272.D  
 Acq: 5 Sep 2017 15:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-4-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.5  | 34.0  | 51.0  |
| 54      | 39.2  | 42.2  | 63.2  |

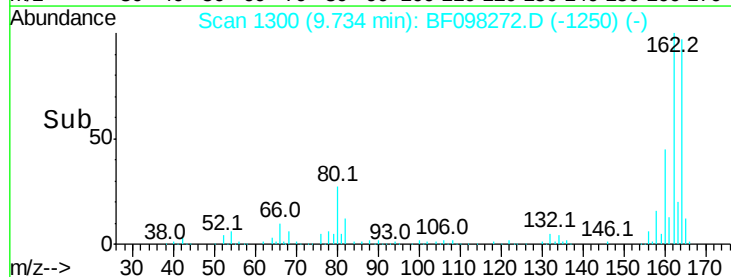
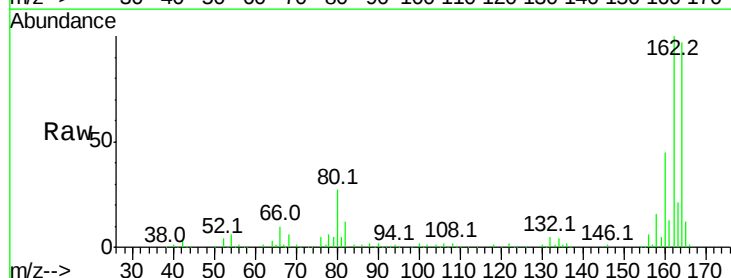
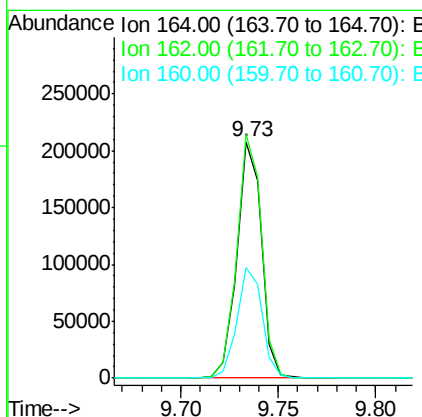
Manual Integrations  
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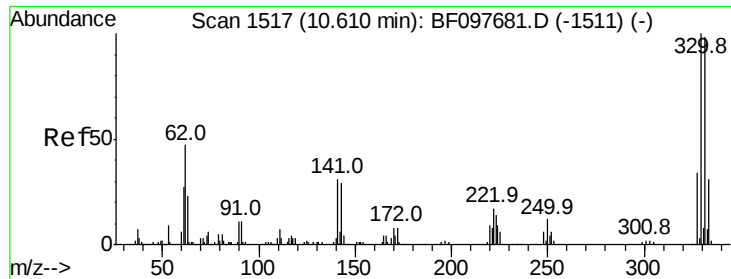
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF098272.D  
 Acq: 5 Sep 2017 15:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.0 | 82.6  | 123.8 |
| 160     | 46.5  | 36.2  | 54.2  |





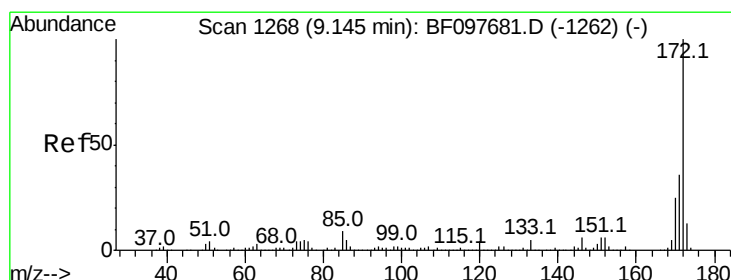
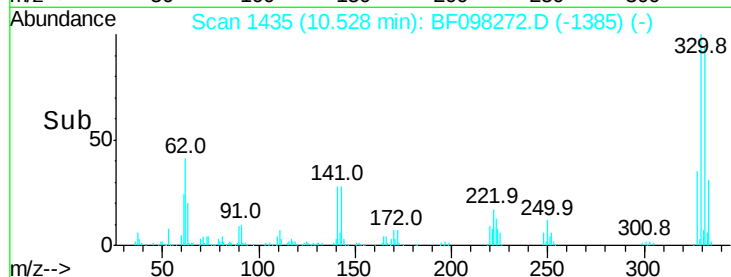
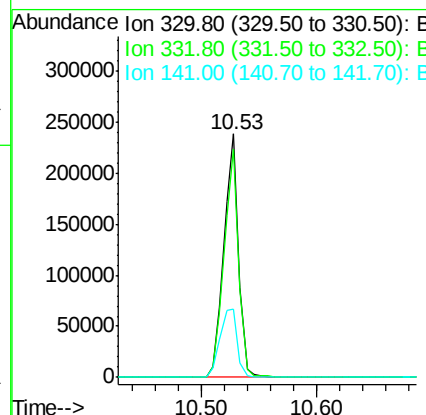
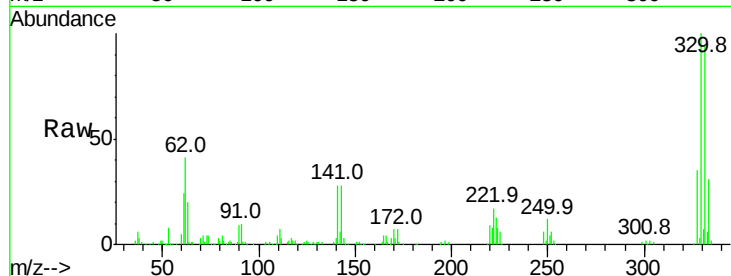
#41  
 2,4,6-Tribromophenol  
 Concen: 133.789 ng  
 RT: 10.53 min Scan# 1435  
 Delta R.T. -0.01 min  
 Lab File: BF098272.D  
 Acq: 5 Sep 2017 15:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-4-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 210015 |       |       |
| 332     | 93.9  | 76.6   | 115.0 |       |
| 141     | 33.1  | 31.4   | 47.2  |       |

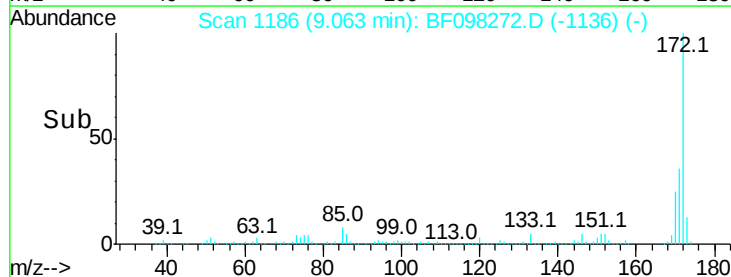
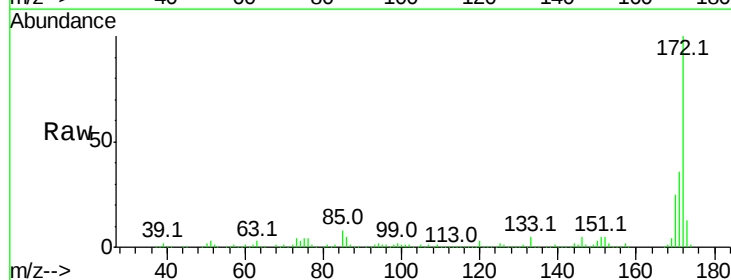
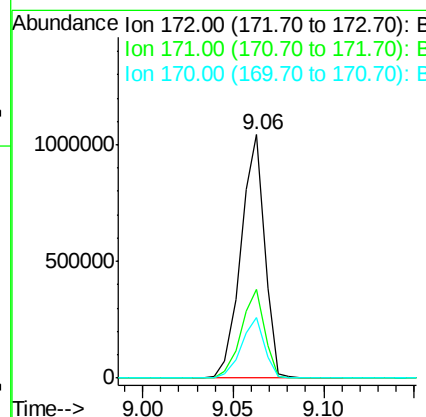
Manual Integrations  
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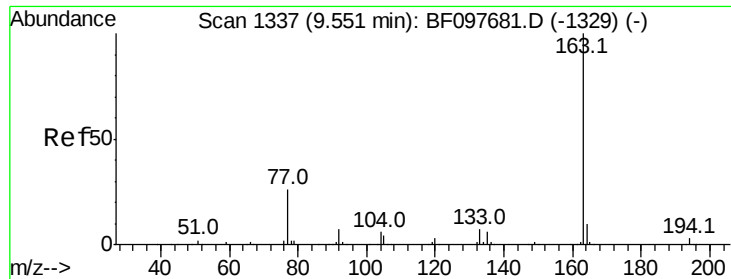
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#44  
 2-Fluorobiphenyl  
 Concen: 76.915 ng  
 RT: 9.06 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF098272.D  
 Acq: 5 Sep 2017 15:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 947131 |       |       |
| 171     | 36.4  | 29.6   | 44.4  |       |
| 170     | 24.8  | 19.8   | 29.8  |       |





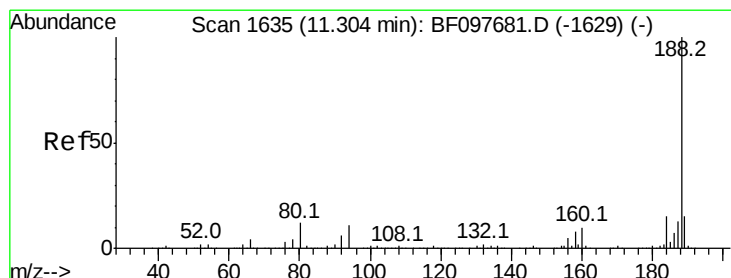
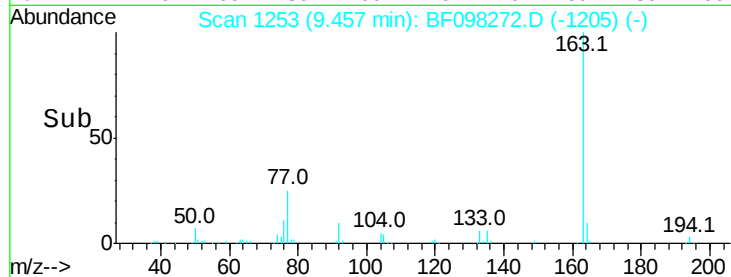
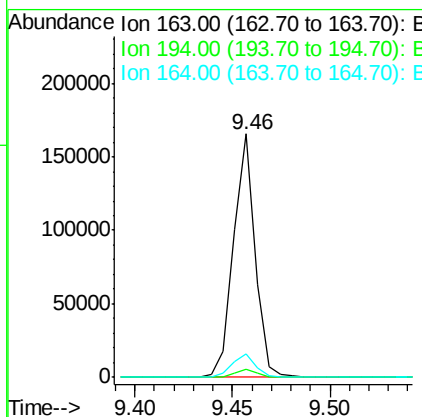
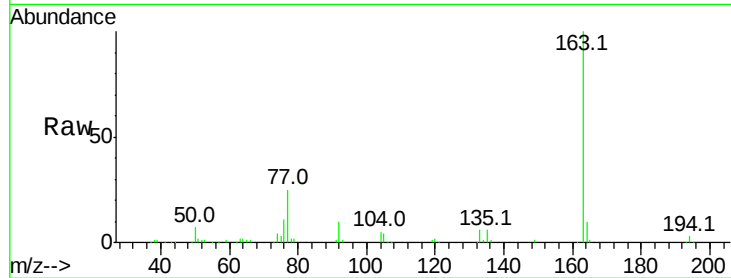
#49  
Dimethylphthalate  
Concen: 9.591 ng  
RT: 9.46 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-4-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 126839 |       |       |
| 194     | 3.4   | 2.6    | 4.0   |       |
| 164     | 9.7   | 8.4    | 12.6  |       |

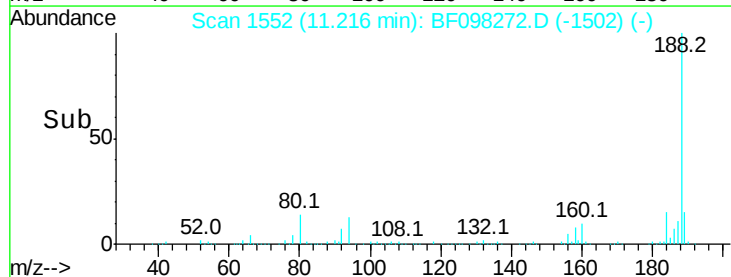
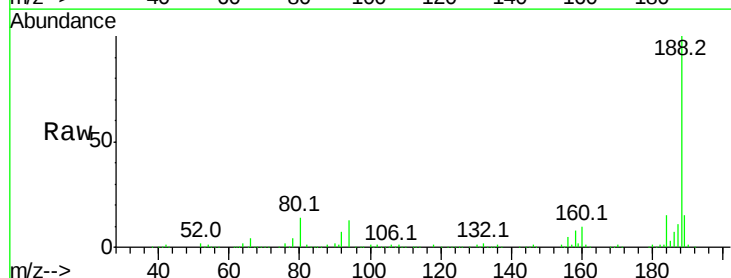
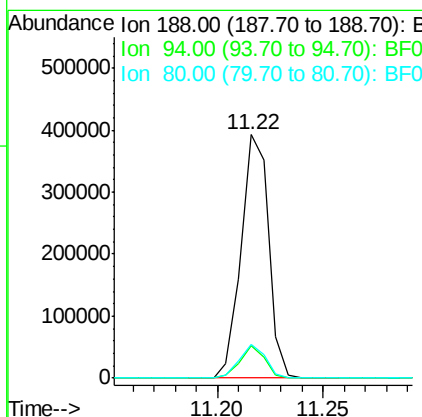
Manual Integrations  
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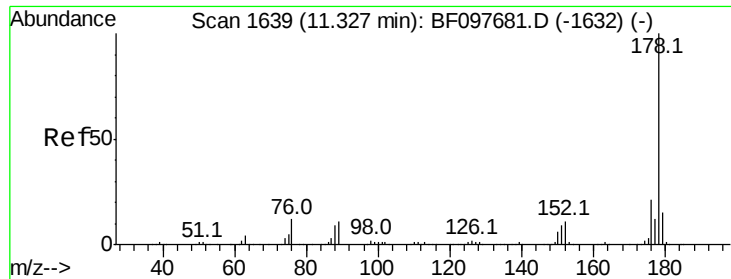
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9/6/2017 5:04:19 PM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.01 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 354332 |       |       |
| 94      | 13.1  | 9.4    | 14.2  |       |
| 80      | 13.6  | 10.2   | 15.2  |       |





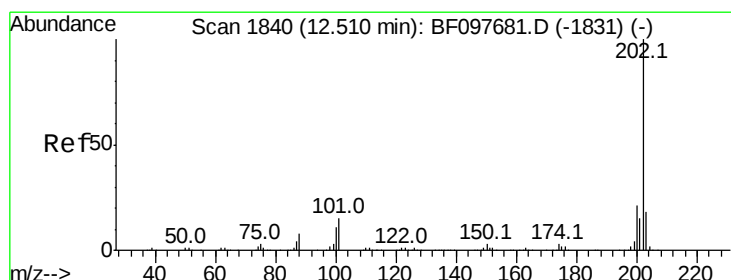
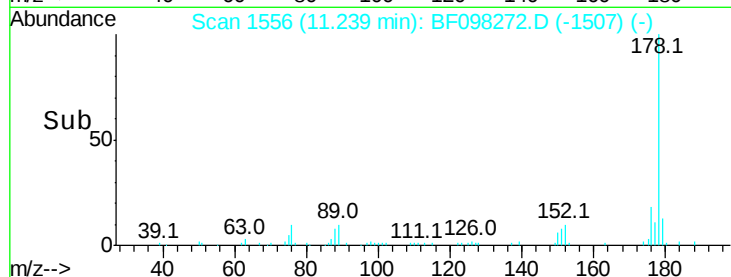
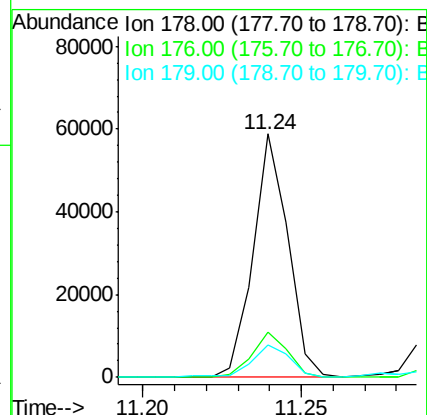
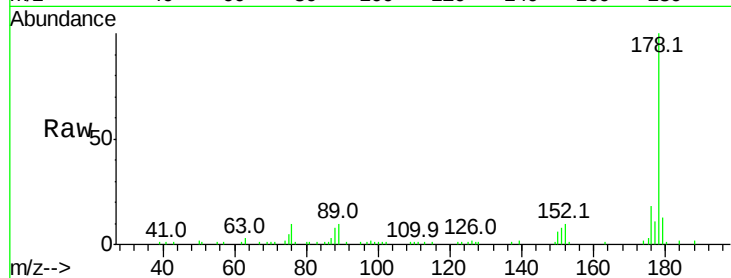
#70  
Phenanthrene  
Concen: 2.373 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-4-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 16.2  | 24.4  |
| 179     | 13.5  | 12.6  | 19.0  |

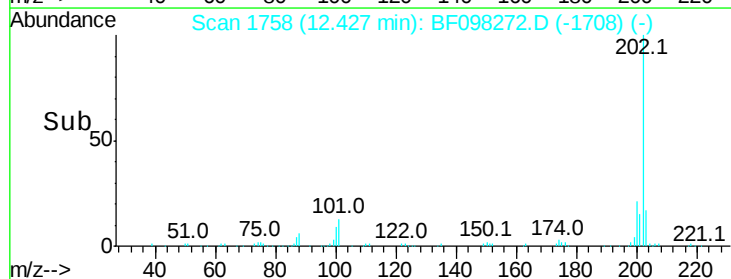
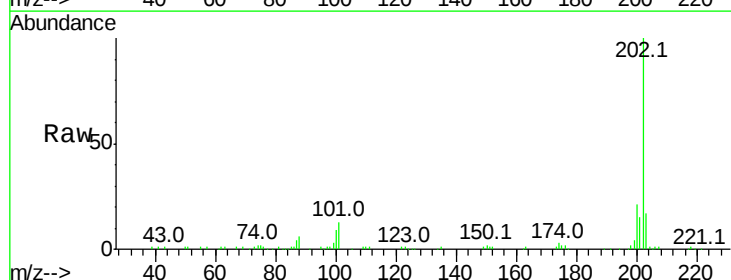
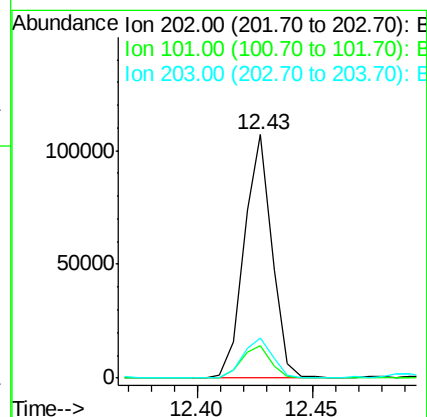
Manual Integrations  
APPROVED

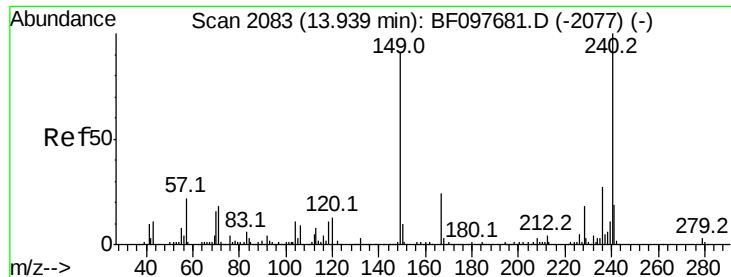
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#74  
Fluoranthene  
Concen: 4.534 ng  
RT: 12.43 min Scan# 1758  
Delta R.T. -0.01 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.2  | 0.0   | 33.2  |
| 203     | 16.6  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

Instrument :

BNA\_F

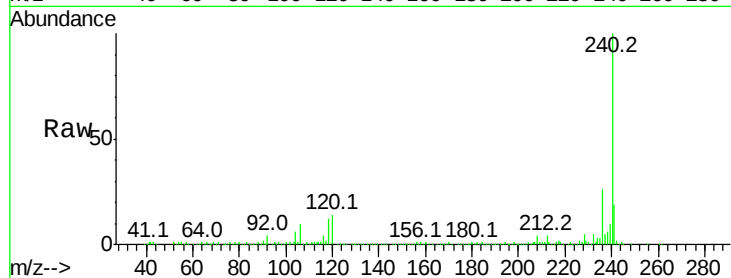
ClientSampleId :

TP-3-4-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 239026 |       |       |
| 120     | 14.2  | 5.8    | 8.8#  |       |
| 236     | 26.0  | 20.5   | 30.7  |       |

Manual Integrations  
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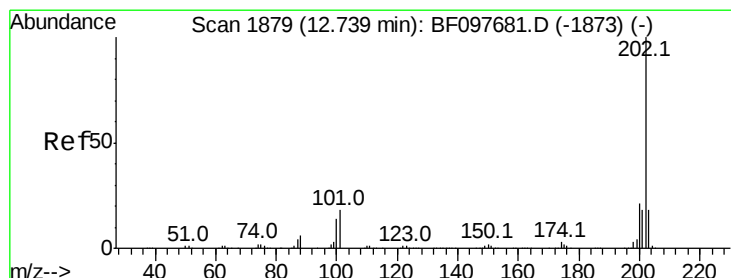
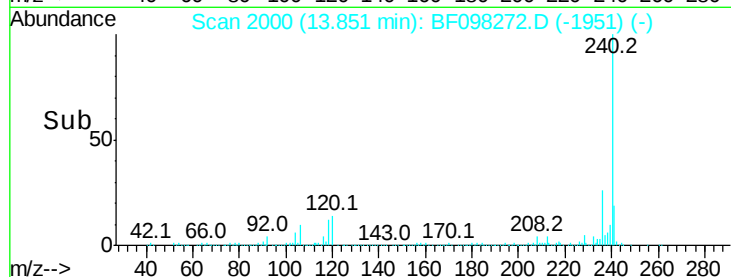
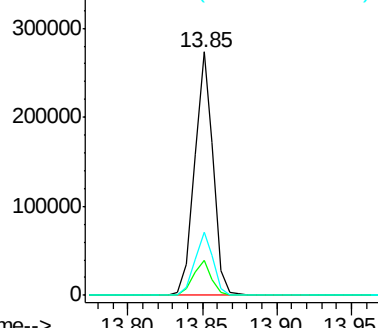
Sohil  
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 4.965 ng

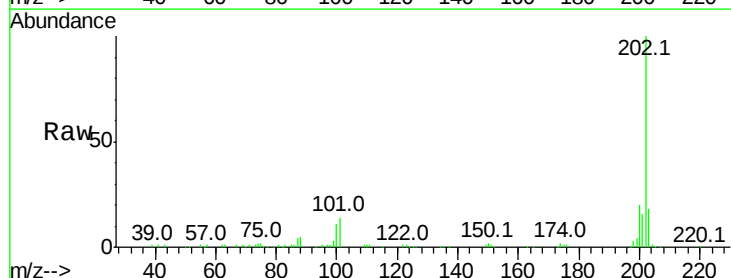
RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

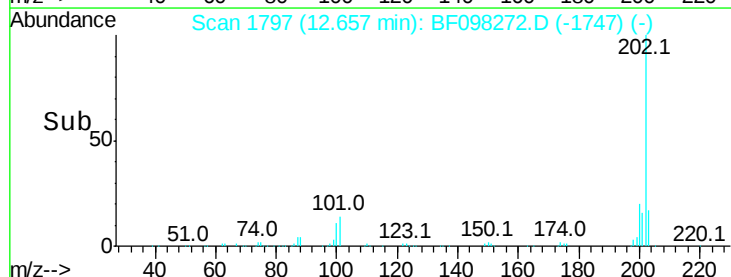
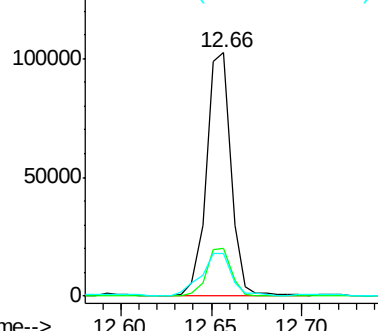
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 97061 |       |       |
| 200     | 19.8  | 17.6  | 26.4  |       |
| 203     | 17.6  | 14.4  | 21.6  |       |

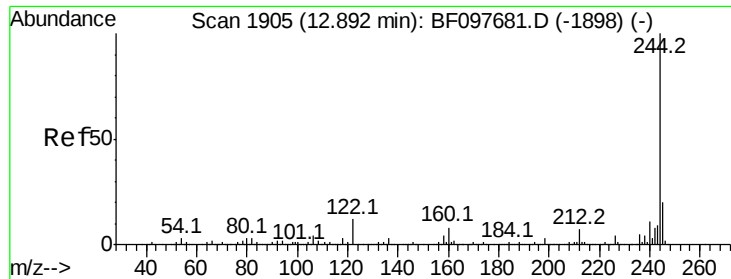


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 73.782 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

Instrument :

BNA\_F

ClientSampled :

TP-3-4-COMP

Tot Ion:244 Resp: 845705

Ion Ratio Lower Upper

244 100

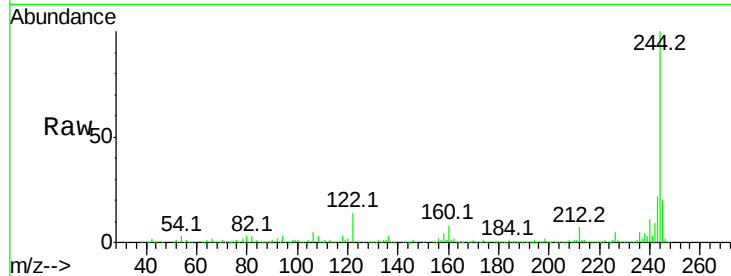
212 7.2 6.0 9.0

122 13.7 10.3 15.5

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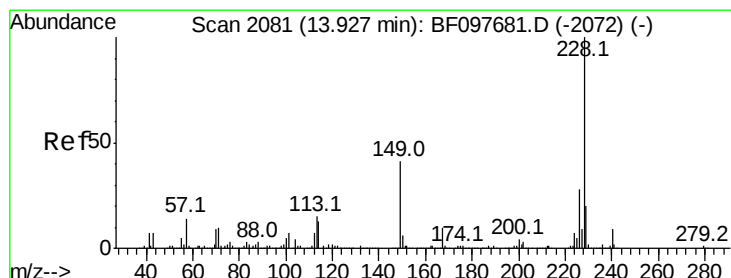
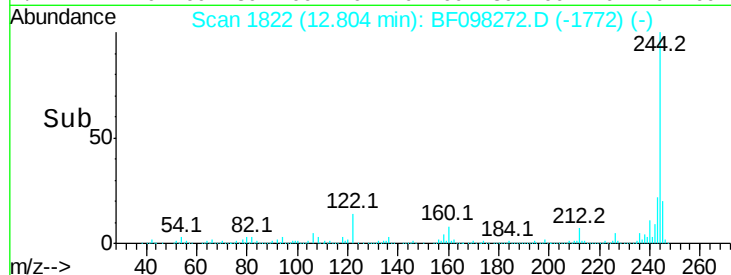
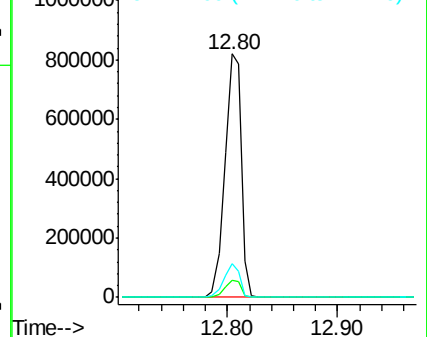
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.889 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

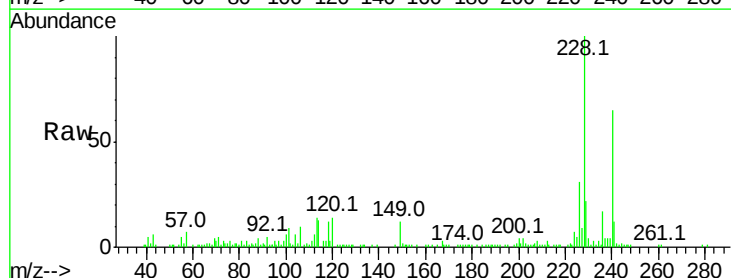
Tgt Ion:228 Resp: 55708

Ion Ratio Lower Upper

228 100

226 30.8 22.6 33.8

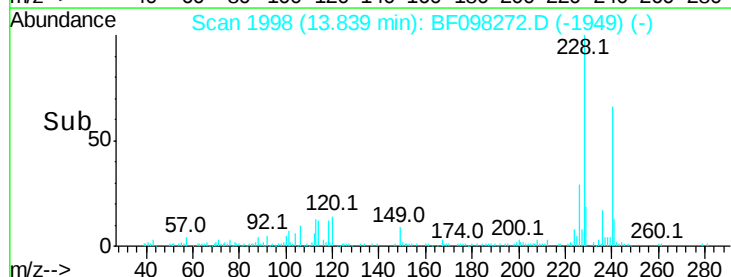
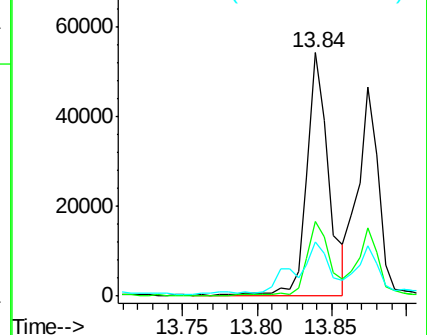
229 22.1 16.3 24.5

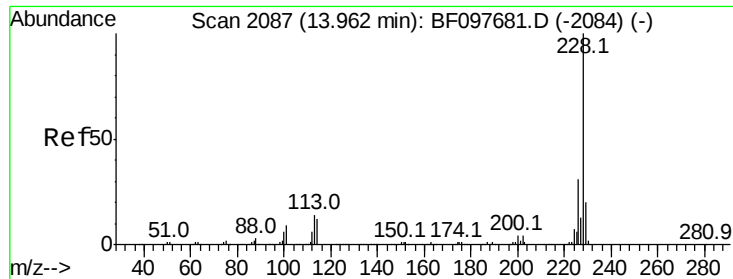


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.232 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

Instrument :

BNA\_F

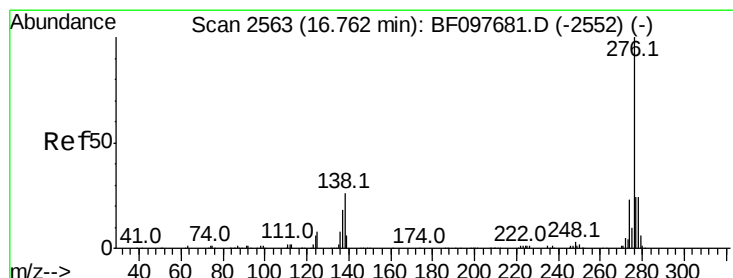
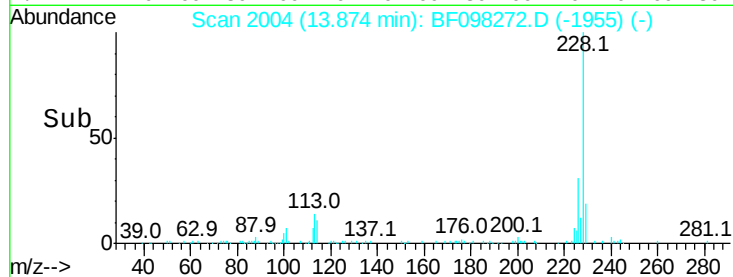
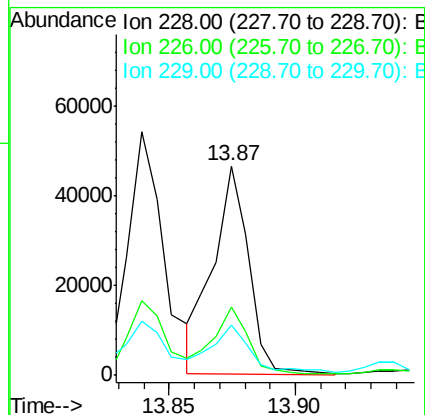
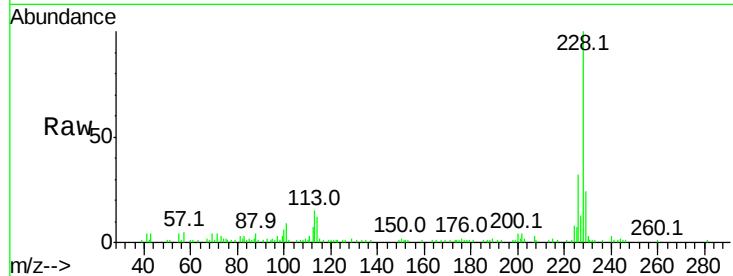
ClientSampleId :

TP-3-4-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 46063 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 32.4  | 24.9  | 37.3  |
| 229       | 23.9  | 15.8  | 23.6  |

Manual Integrations  
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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.434 ng

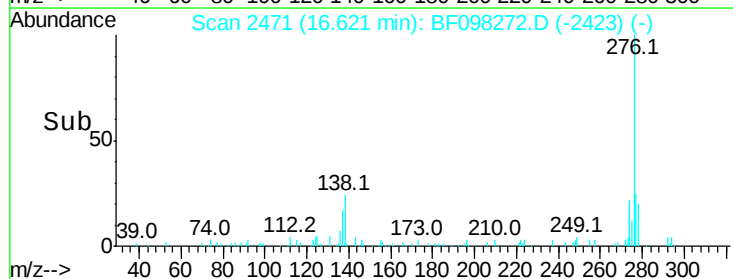
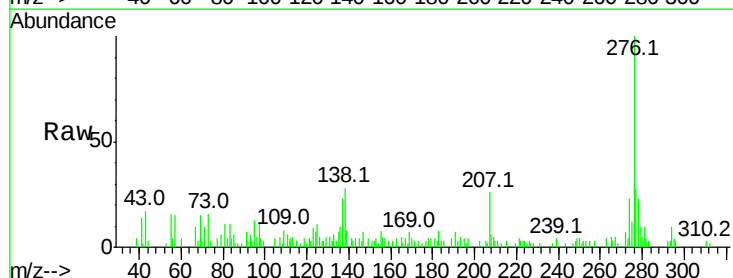
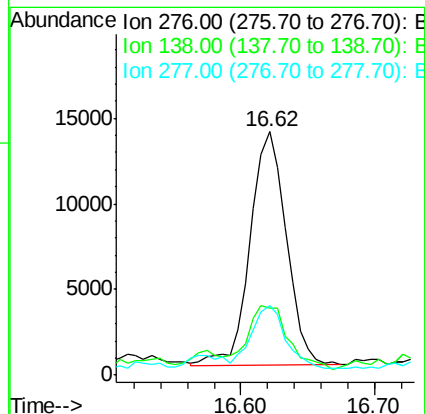
RT: 16.62 min Scan# 2471

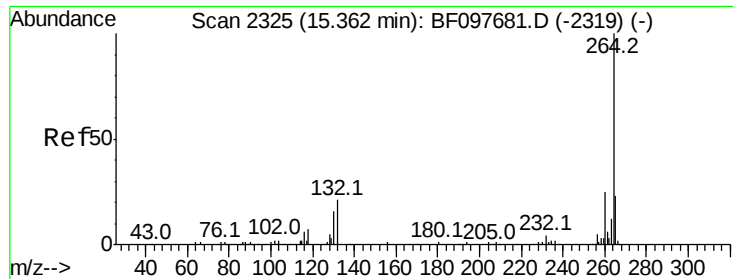
Delta R.T. -0.02 min

Lab File: BF098272.D

Acq: 5 Sep 2017 15:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 25517 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 31.1  | 27.8  | 41.6  |
| 277       | 25.7  | 20.2  | 30.4  |





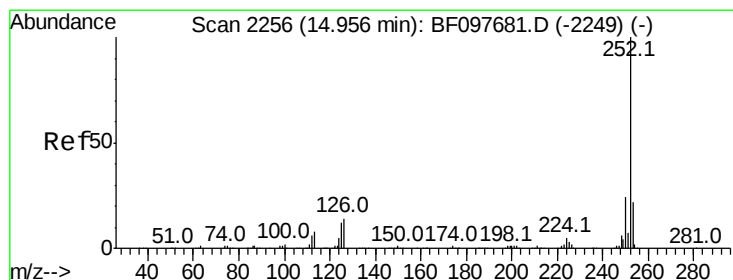
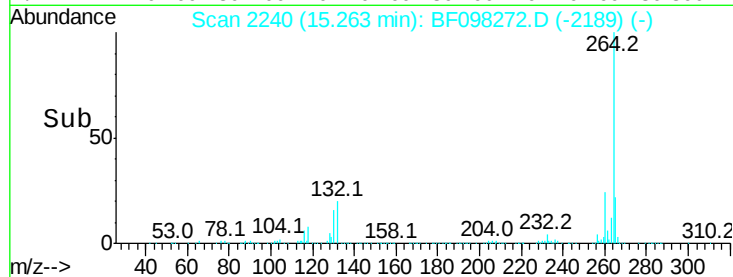
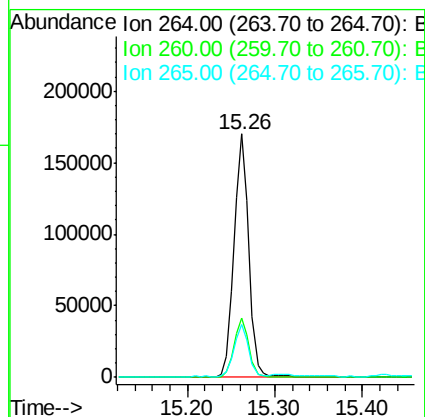
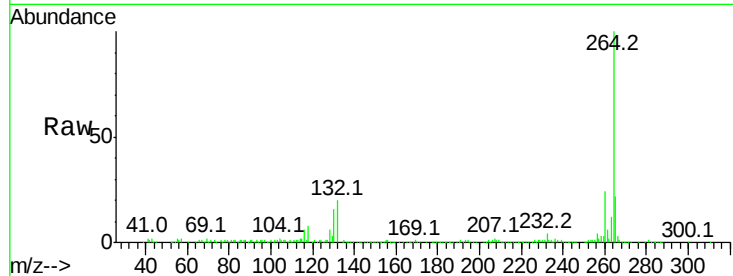
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.26 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-4-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.5  | 29.3  |
| 265     | 21.8  | 17.2  | 25.8  |

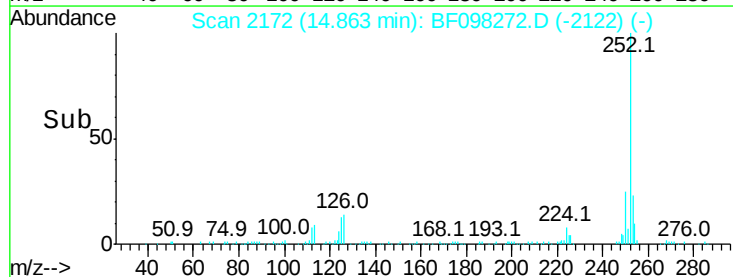
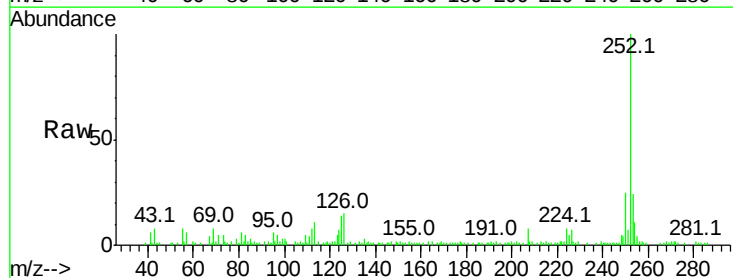
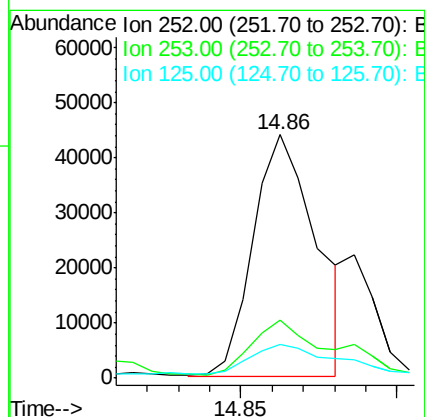
Manual Integrations  
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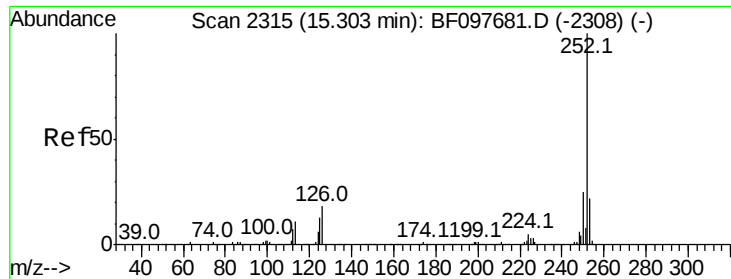
Sohil  
9/6/2017 5:04:19 PM



#87  
Benzo(b)fluoranthene  
Concen: 4.964 ng m  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.01 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.1  | 27.1  |
| 125     | 14.0  | 9.8   | 14.8  |





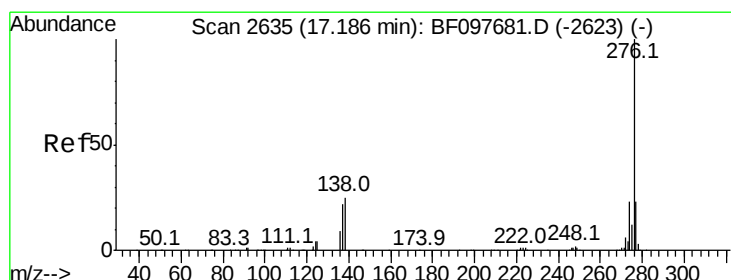
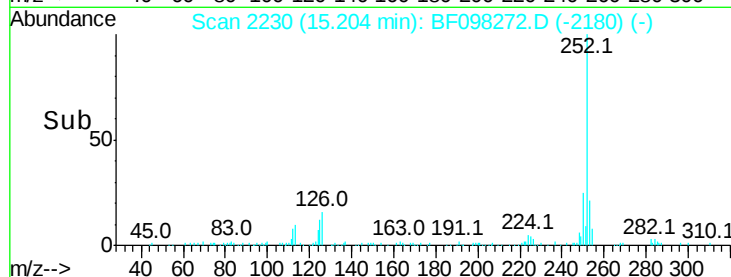
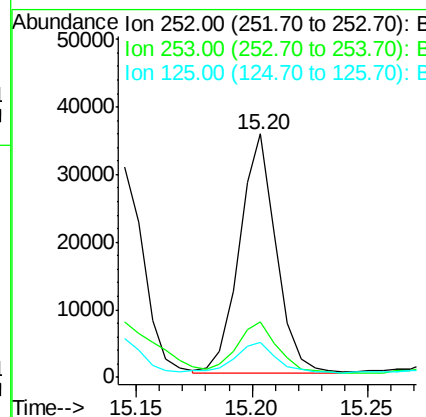
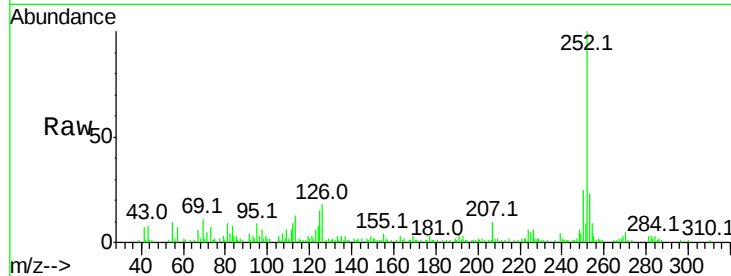
#89  
Benzo(a)pyrene  
Concen: 3.560 ng  
RT: 15.20 min Scan# 2230  
Delta R.T. -0.01 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-4-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 39242 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.9  | 17.5  | 26.3  |
| 125       | 14.6  | 11.0  | 16.4  |

Manual Integrations  
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9/6/2017 5:04:19 PM



#91  
Benzo(g,h,i)perylene  
Concen: 3.587 ng  
RT: 17.03 min Scan# 2541  
Delta R.T. -0.02 min  
Lab File: BF098272.D  
Acq: 5 Sep 2017 15:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 33586 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.8  | 18.6  | 28.0  |
| 138       | 26.5  | 25.4  | 38.0  |

