

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041318\  
 Data File : BF104503.D  
 Acq On : 14 Apr 2018 4:23  
 Operator : JU/SJ  
 Sample : J2335-03DL 20X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S2DL

Manual Integrations  
 APPROVED

Sohil  
 4/16/2018 3:10:44 PM

Quant Time: Apr 16 13:21:13 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 13 17:38:31 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 123781   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.09  | 136  | 494760   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.85  | 164  | 206852   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.34 | 188  | 295934   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.98 | 240  | 226944   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.45 | 264  | 172756   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 44491    | 5.50   | ng    | 0.00     |
| 7) Phenol-d6                | 6.44  | 99   | 55376    | 5.57   | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 30498    | 4.03   | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330  | 8431     | 3.93   | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 59618    | 4.55   | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.92 | 244  | 41011    | 4.12   | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 48) Acenaphthylene          | 9.71  | 152  | 48594    | 2.257  | ng    | 97       |
| 54) Dibenzofuran            | 10.05 | 168  | 76326    | 4.168  | ng    | 100      |
| 57) Fluorene                | 10.40 | 166  | 110728   | 8.308  | ng    | 99       |
| 70) Phenanthrene            | 11.36 | 178  | 553289   | 33.573 | ng    | 99       |
| 71) Anthracene              | 11.41 | 178  | 72714    | 4.340  | ng    | 100      |
| 72) Carbazole               | 11.57 | 167  | 72385    | 4.422  | ng    | 99       |
| 74) Fluoranthene            | 12.56 | 202  | 439924   | 25.549 | ng    | 96       |
| 77) Pyrene                  | 12.78 | 202  | 318780   | 18.950 | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.97 | 228  | 125379   | 9.248  | ng    | 97       |
| 82) Chrysene                | 14.01 | 228  | 134093   | 9.629  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.90 | 276  | 40366m   | 3.412  | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.02 | 252  | 133797m  | 12.263 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.05 | 252  | 31937m   | 3.100  | ng    |          |
| 89) Benzo(a)pyrene          | 15.39 | 252  | 72382    | 7.414  | ng    | 97       |
| 91) Benzo(a,h,i)perylene    | 17.33 | 276  | 31864    | 4.102  | ng    | 98       |

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

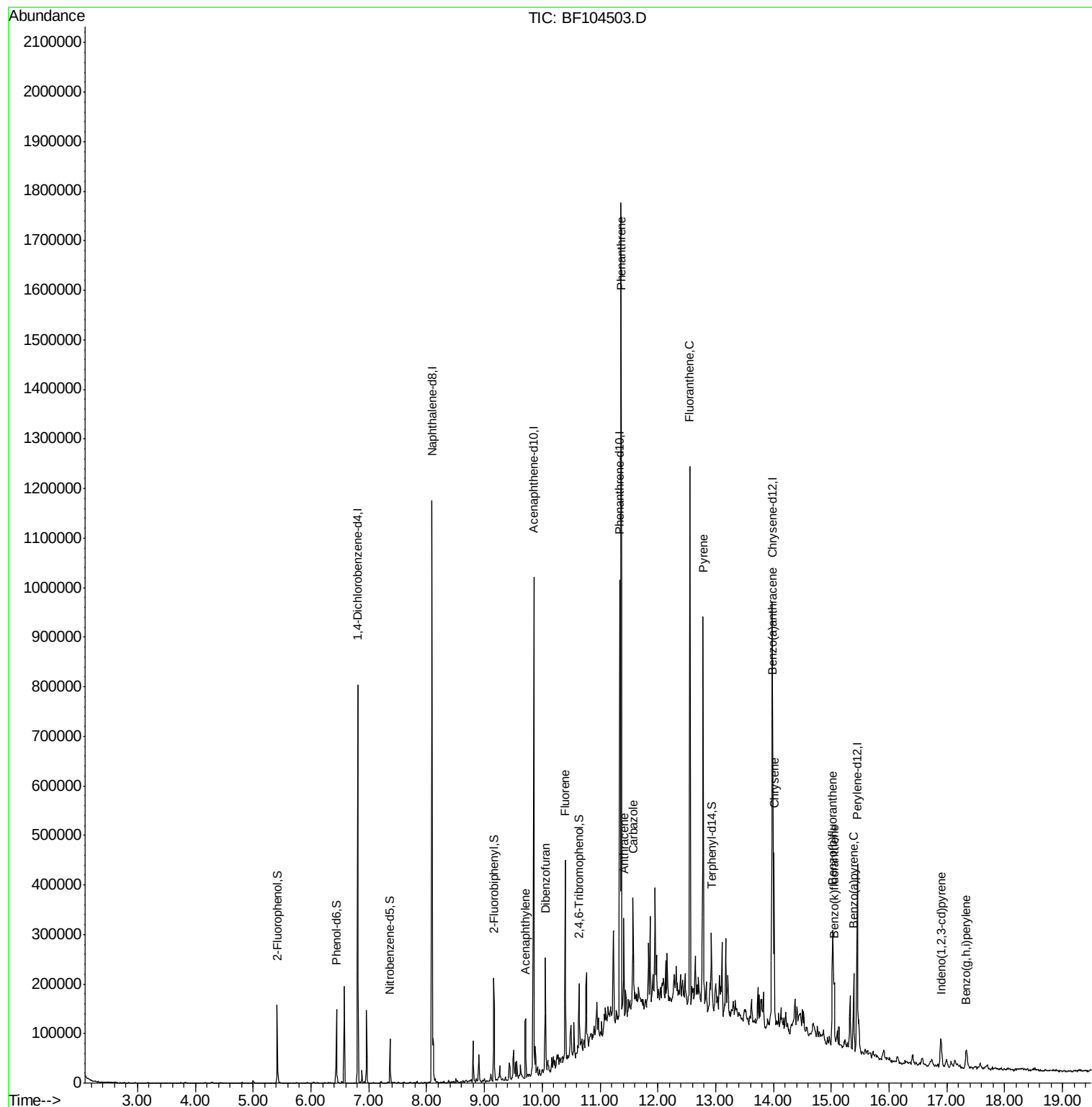
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041318\  
Data File : BF104503.D  
Acq On : 14 Apr 2018 4:23  
Operator : JU/SJ  
Sample : J2335-03DL 20X  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

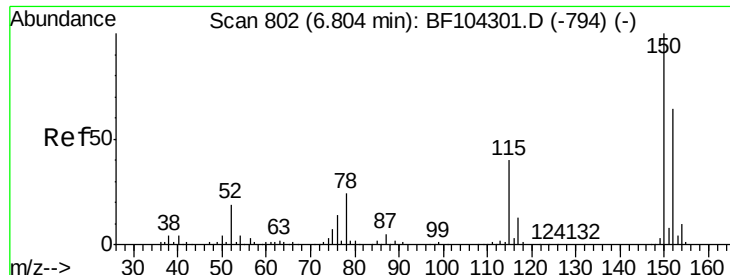
Instrument :  
BNA\_F  
ClientSampleId :  
S2DL

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Sohil  
4/16/2018 3:10:44 PM

Quant Time: Apr 16 13:21:13 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 13 17:38:31 2018  
Response via : Initial Calibration





#1

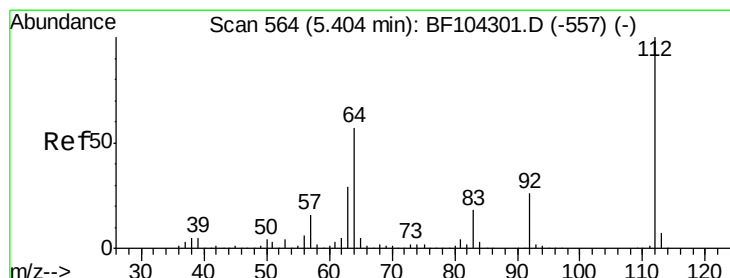
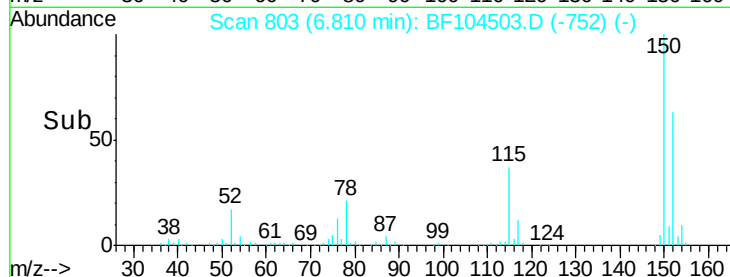
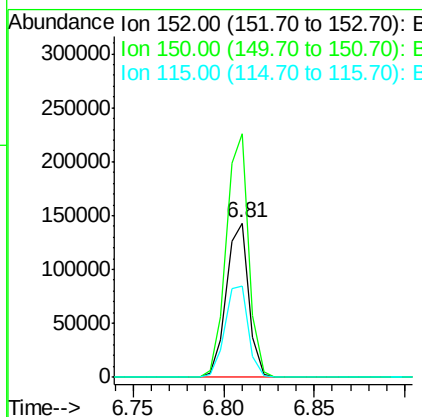
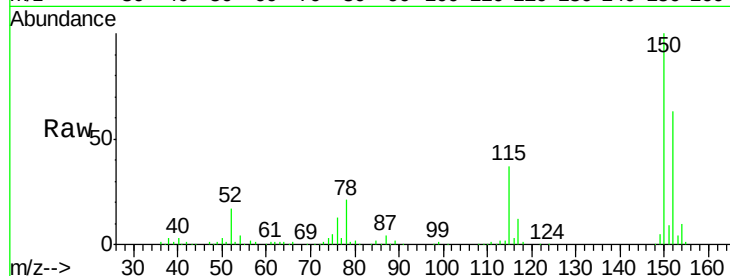
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

Instrument :  
 BNA\_F  
 ClientSampled :  
 S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 124.6 | 186.8 |
| 115     | 59.1  | 50.1  | 75.1  |

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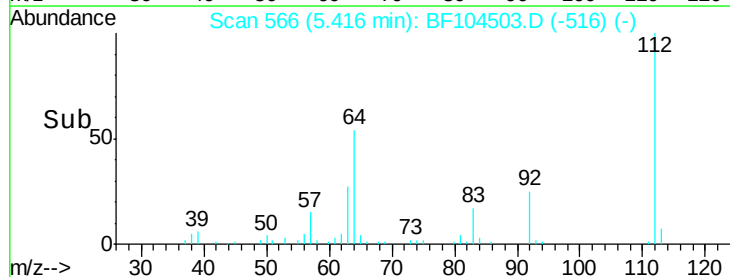
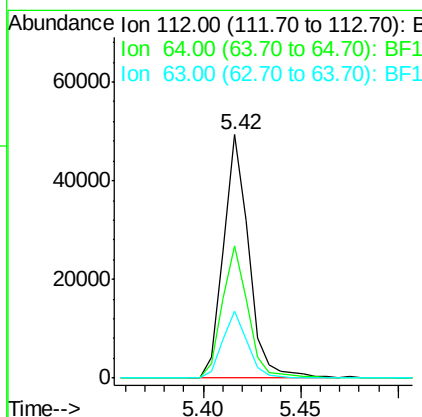
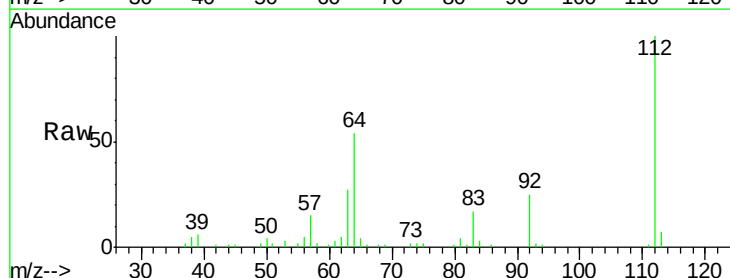
Sohil  
 4/16/2018 3:10:44 PM

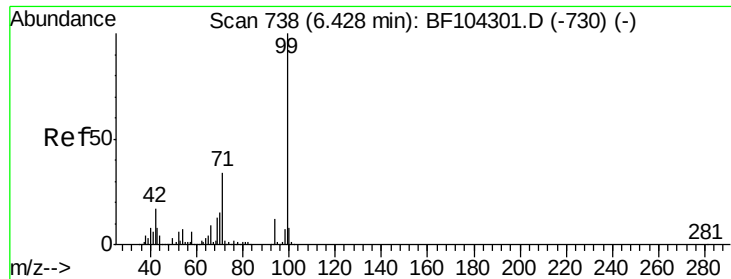


#5

2-Fluorophenol  
 Concen: 5.496 ng  
 RT: 5.42 min Scan# 566  
 Delta R.T. -0.01 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 47.9  | 71.9  |
| 63      | 27.3  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 5.567 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

Instrument :

BNA\_F

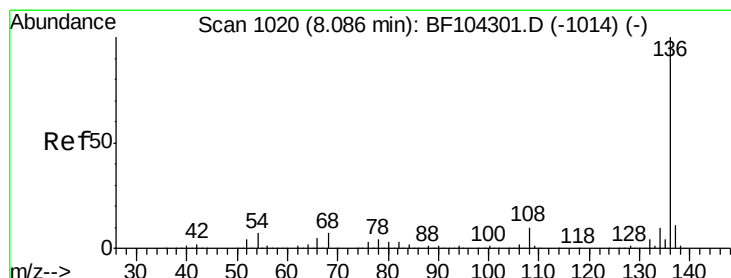
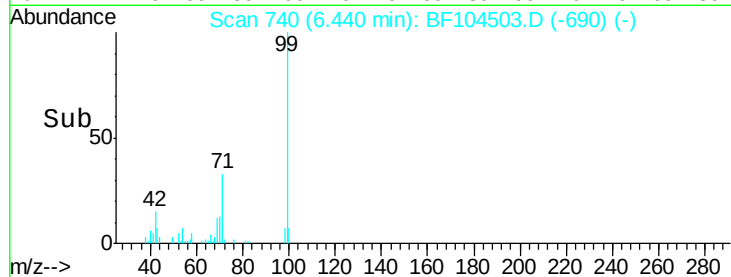
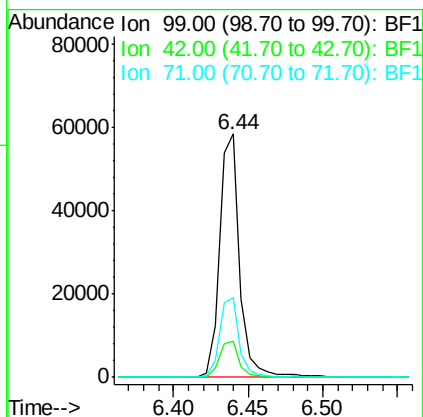
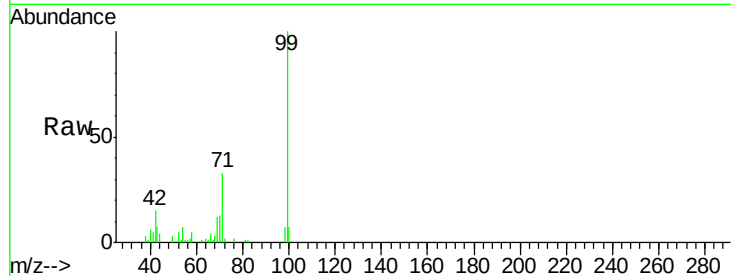
ClientSampleId :

S2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 55376 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 14.9  | 14.5  | 21.7  |
| 71        | 32.7  | 25.4  | 38.0  |

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#21

Naphthalene-d8

Concen: 20.000 ng

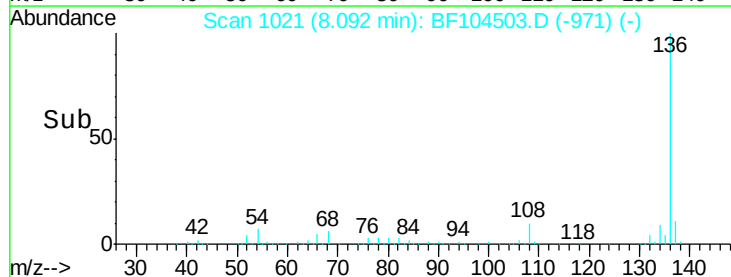
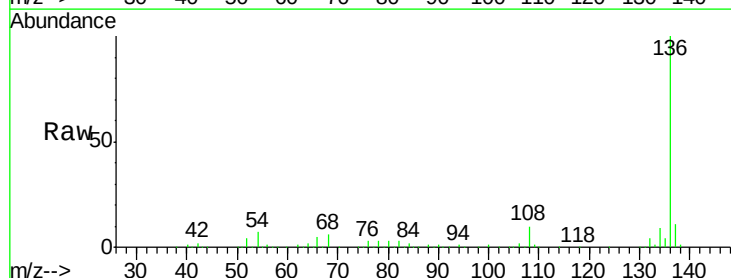
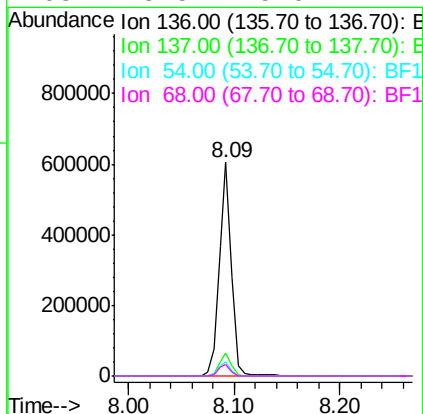
RT: 8.09 min Scan# 1021

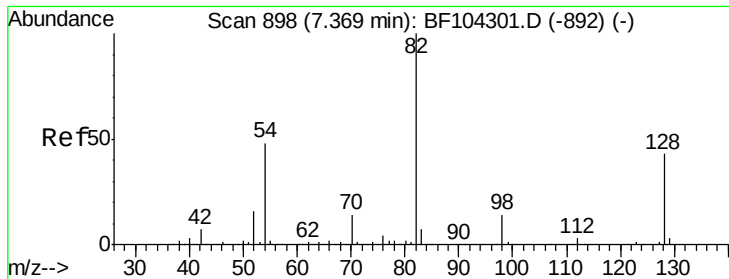
Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 494760 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.9   | 13.3   |
| 54        | 6.7   | 6.6   | 9.8    |
| 68        | 5.5   | 5.0   | 7.4    |





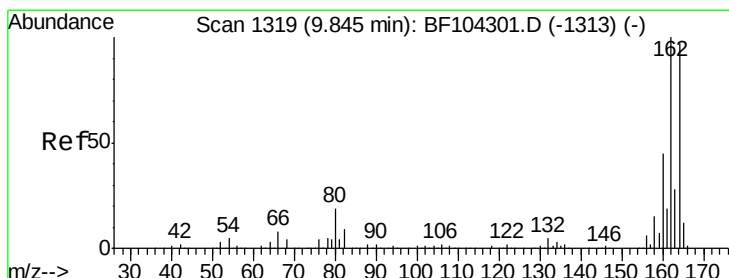
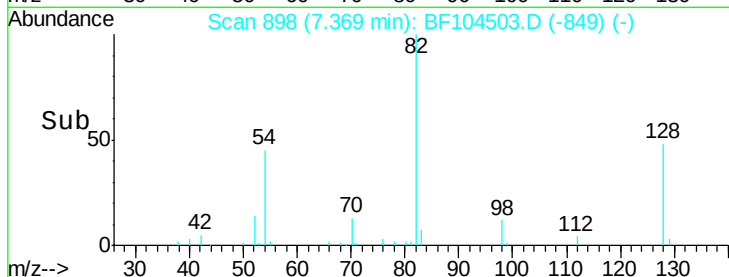
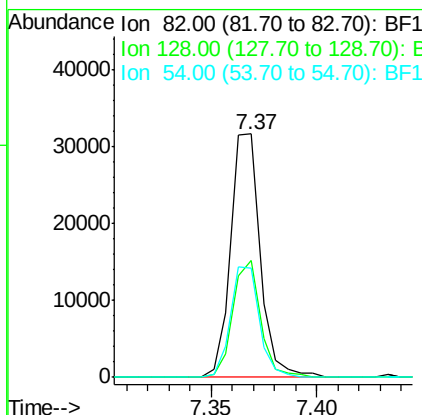
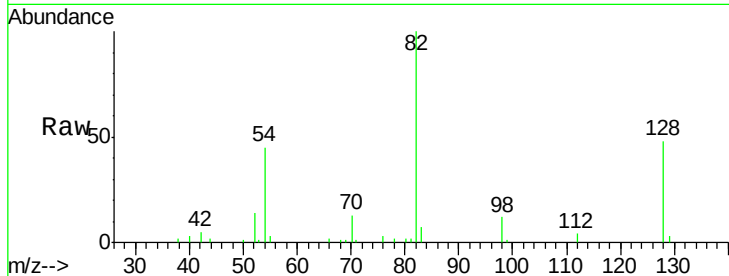
#23  
 Nitrobenzene-d5  
 Concen: 4.025 ng  
 RT: 7.37 min Scan# 898  
 Delta R.T. -0.01 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

Instrument :  
 BNA\_F  
 ClientSampled :  
 S2DL

| Tot Ion   | 82   | Resp  | 30498 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 48.1 | 36.1  | 54.1  |
| 54        | 44.9 | 41.4  | 62.2  |

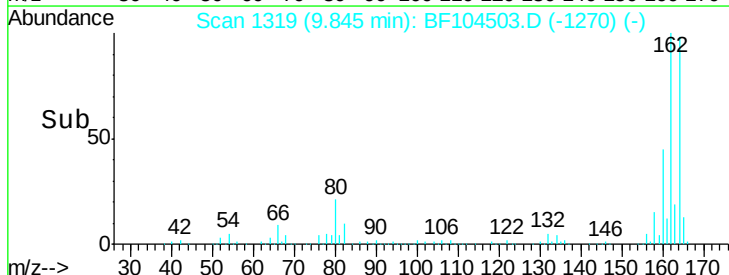
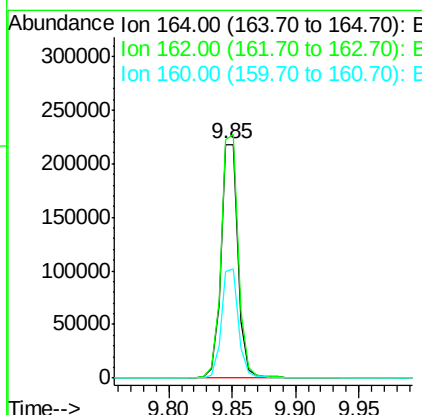
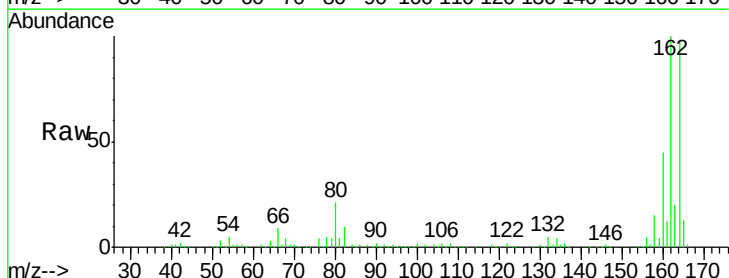
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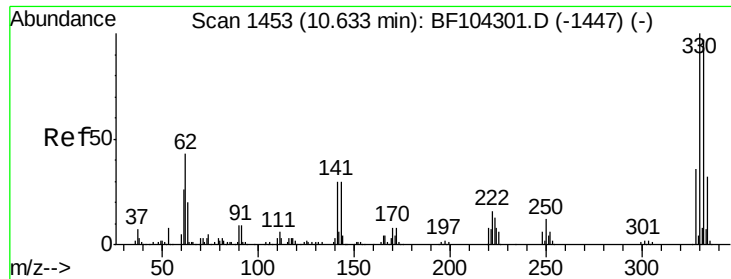
Sohil  
 4/16/2018 3:10:44 PM



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.01 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

| Tgt Ion   | 164   | Resp  | 206852 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 102.2 | 86.1  | 129.1  |
| 160       | 45.7  | 38.3  | 57.5   |





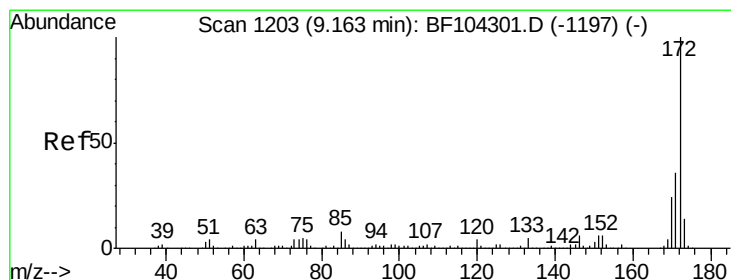
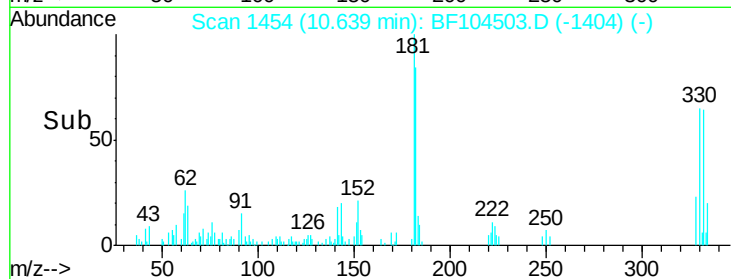
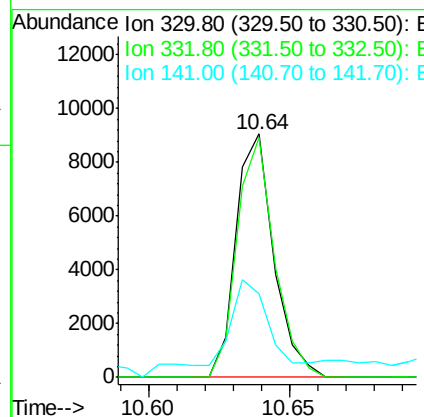
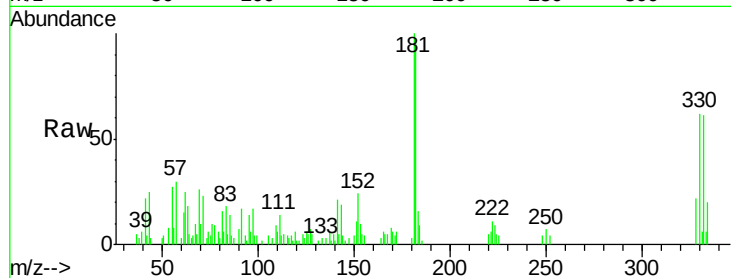
#41  
 2,4,6-Tribromophenol  
 Concen: 3.929 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

Instrument :  
 BNA\_F  
 ClientSampled :  
 S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.0  | 115.6 |
| 141     | 51.2  | 29.9  | 44.9  |

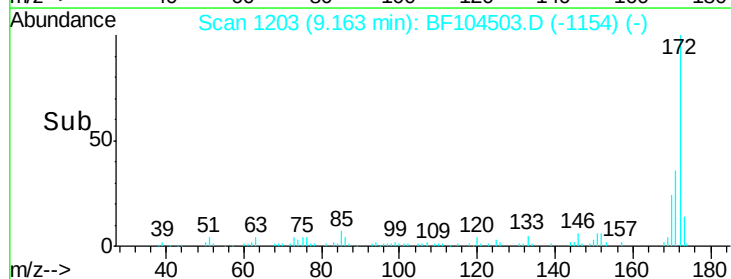
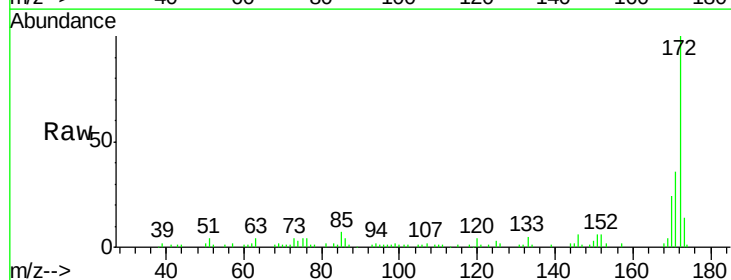
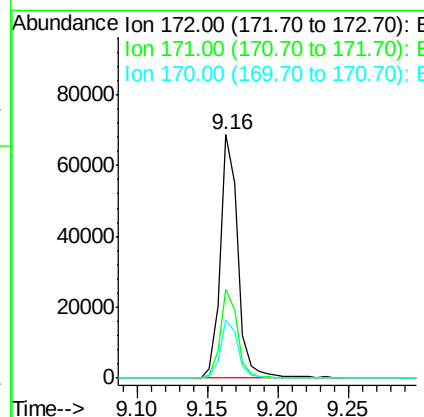
Manual Integrations  
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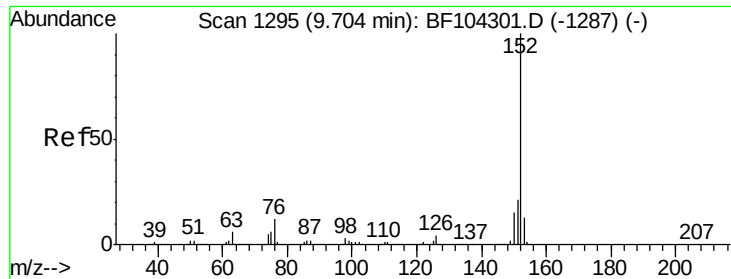
Sohil  
 4/16/2018 3:10:44 PM



#44  
 2-Fluorobiphenyl  
 Concen: 4.553 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.01 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 23.6  | 19.6  | 29.4  |





#48

Acenaphthylene

Concen: 2.257 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

Instrument :

BNA\_F

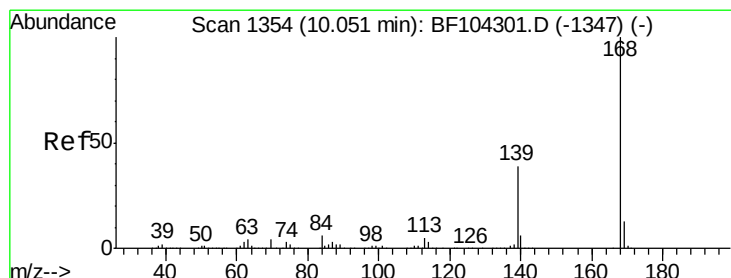
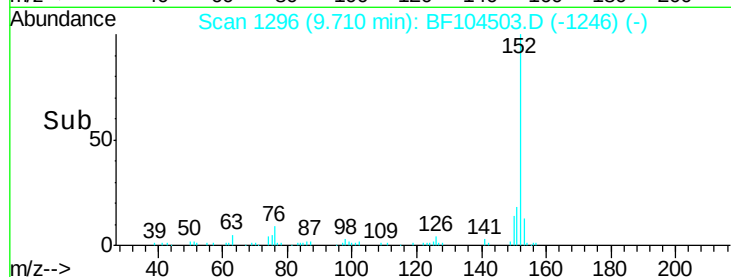
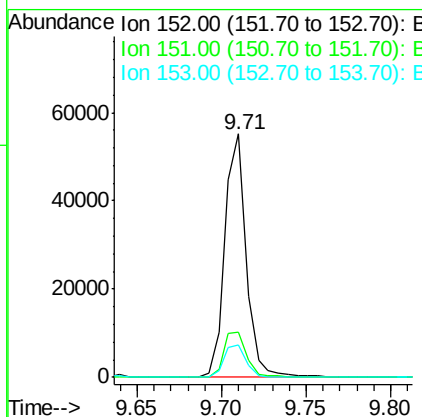
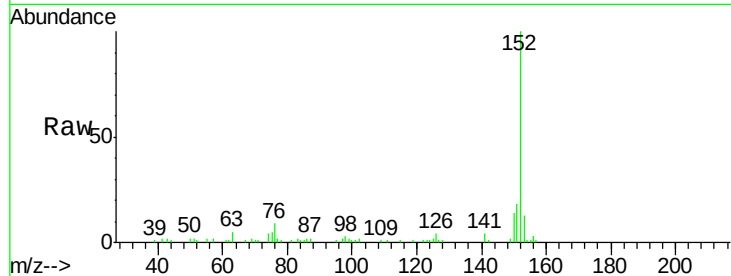
ClientSampleId :

S2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 48594 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 18.4  | 16.3  | 24.5  |
| 153       | 13.1  | 10.7  | 16.1  |

Manual Integrations  
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#54

Dibenzofuran

Concen: 4.168 ng

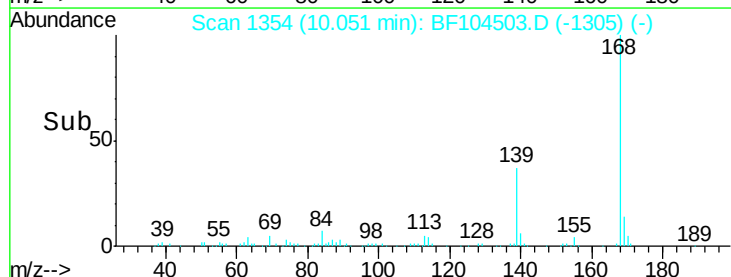
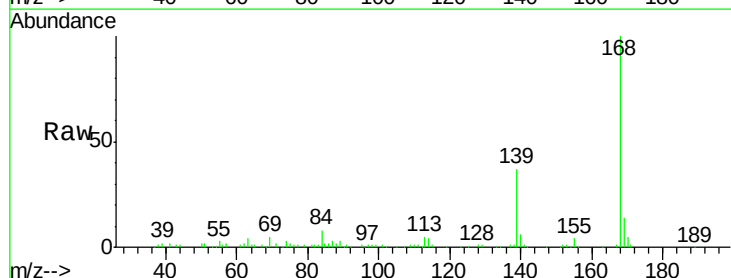
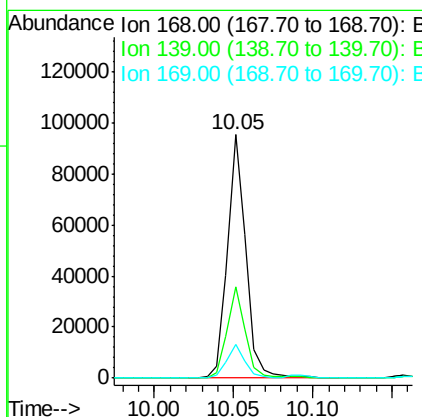
RT: 10.05 min Scan# 1354

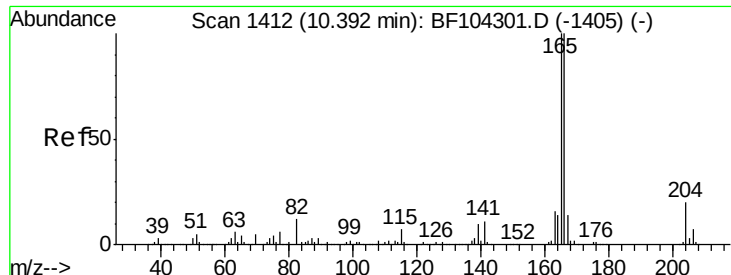
Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 76326 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 37.5  | 30.1  | 45.1  |
| 169       | 14.0  | 10.9  | 16.3  |





#57

Fluorene

Concen: 8.308 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

Instrument :

BNA\_F

ClientSampleId :

S2DL

Tot Ion:166 Resp: 110728

Ion Ratio Lower Upper

166 100

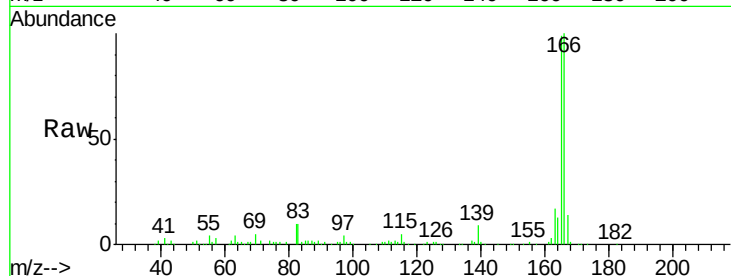
165 99.1 79.8 119.8

167 13.8 10.6 16.0

Manual Integrations  
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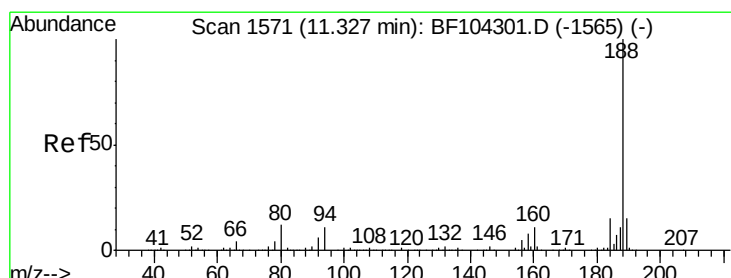
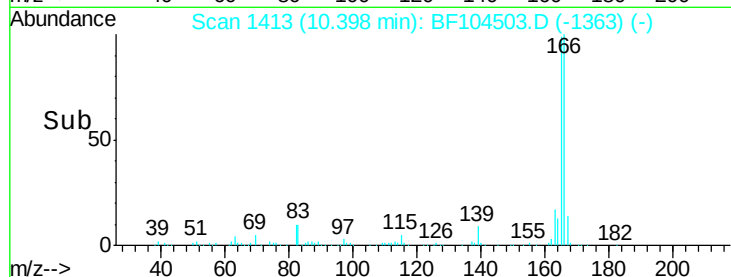
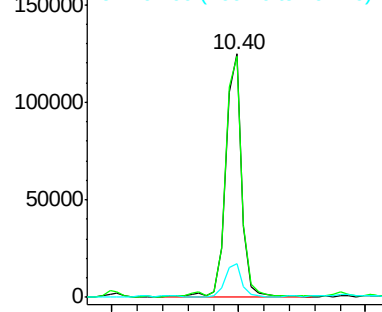
4/16/2018 3:10:44 PM



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

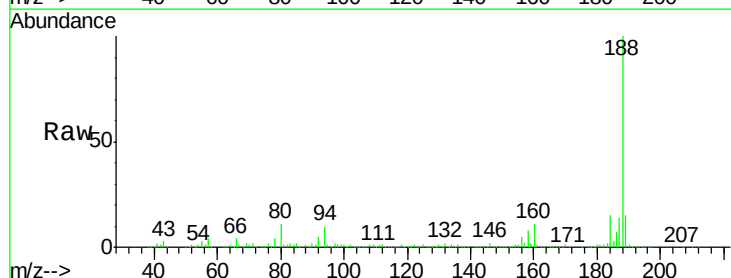
Tgt Ion:188 Resp: 295934

Ion Ratio Lower Upper

188 100

94 10.0 8.5 12.7

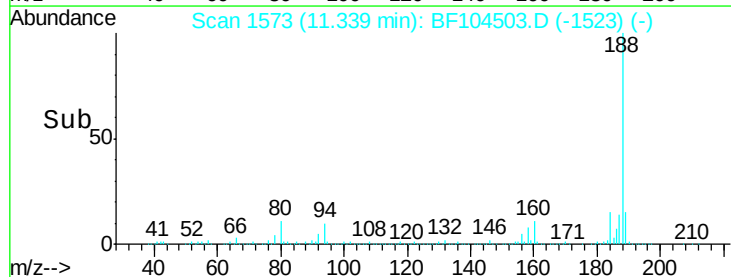
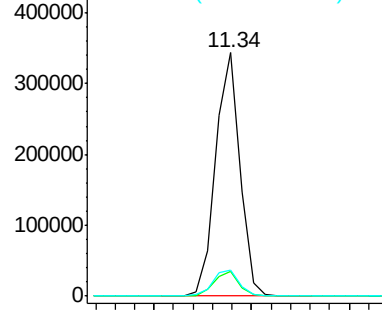
80 10.6 9.2 13.8



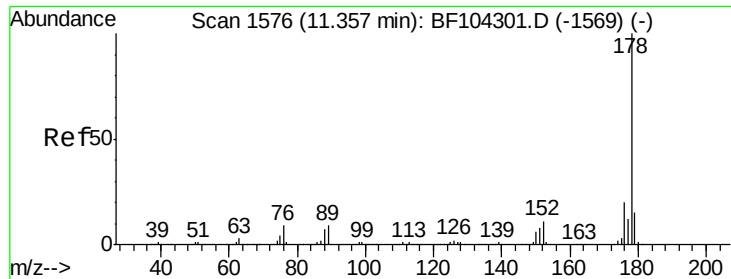
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1







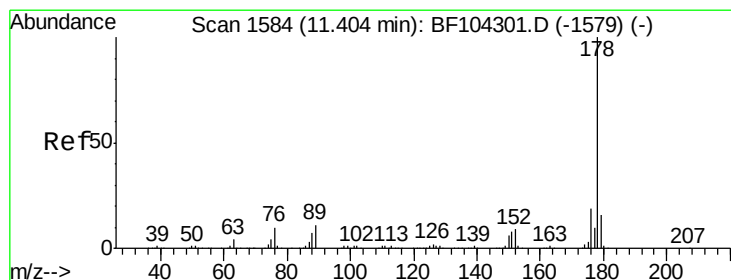
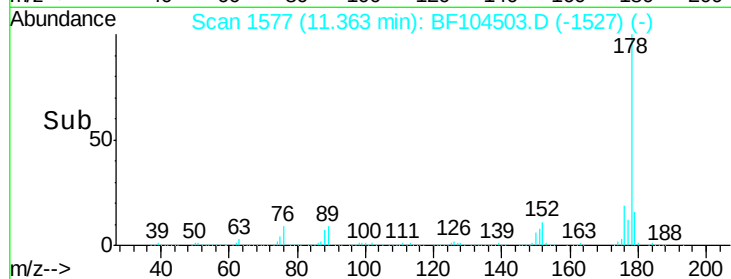
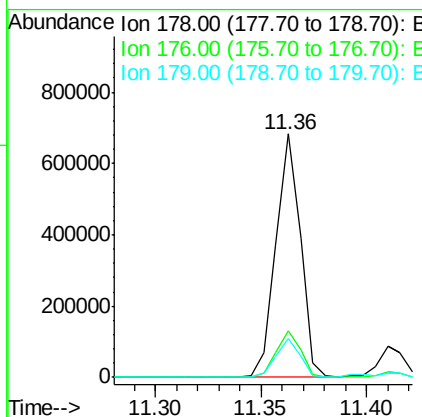
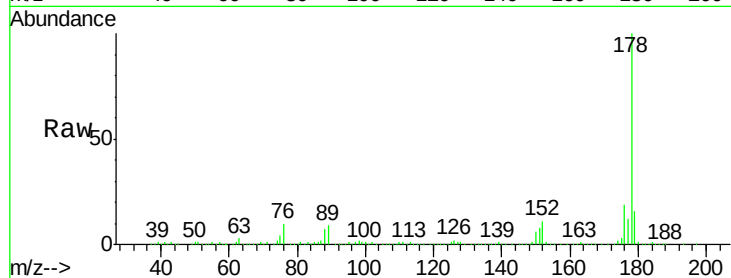
#70  
Phenanthrene  
Concen: 33.573 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

Instrument :  
BNA\_F  
ClientSampleId :  
S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.8  | 23.8  |
| 179     | 15.7  | 13.0  | 19.6  |

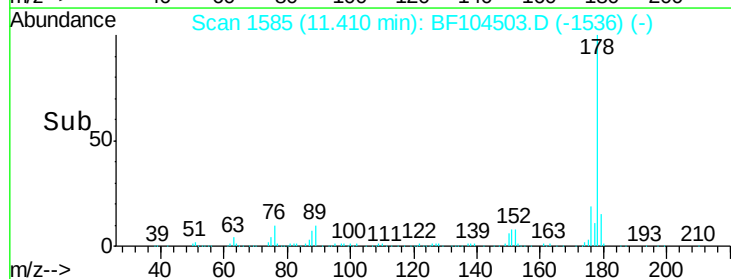
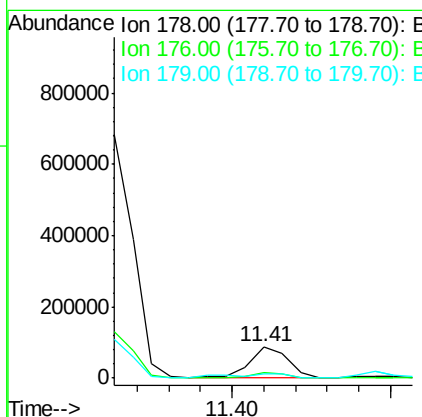
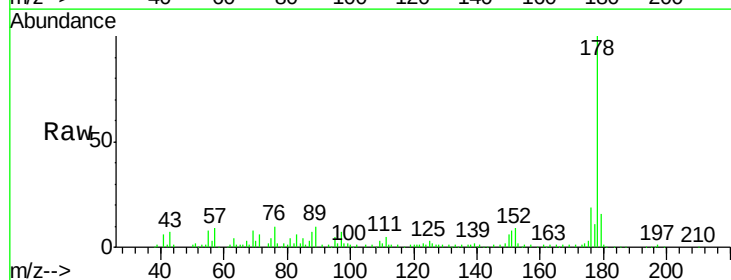
Manual Integrations  
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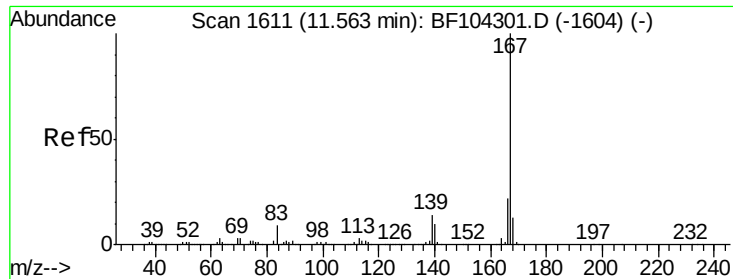
Sohil  
4/16/2018 3:10:44 PM



#71  
Anthracene  
Concen: 4.340 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

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





#72

Carbazole

Concen: 4.422 ng

RT: 11.57 min Scan# 1612

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

Instrument :

BNA\_F

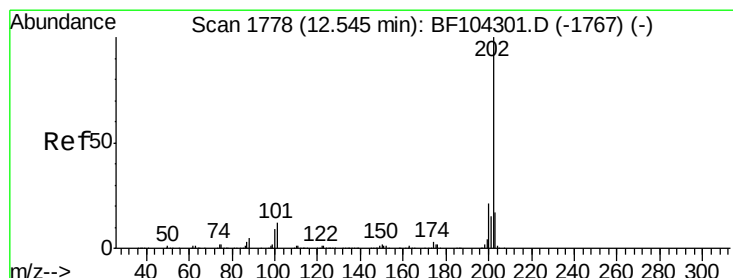
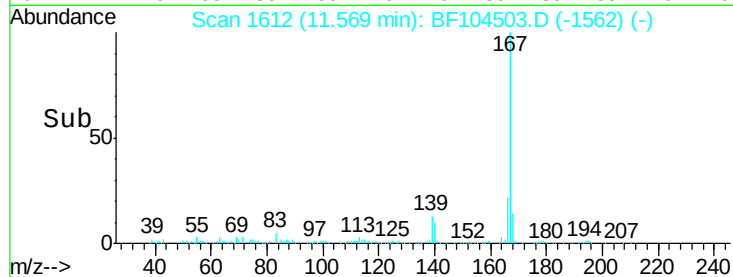
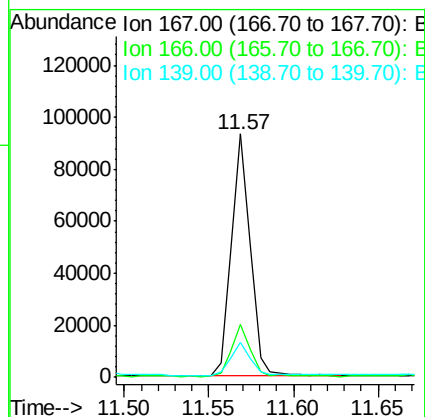
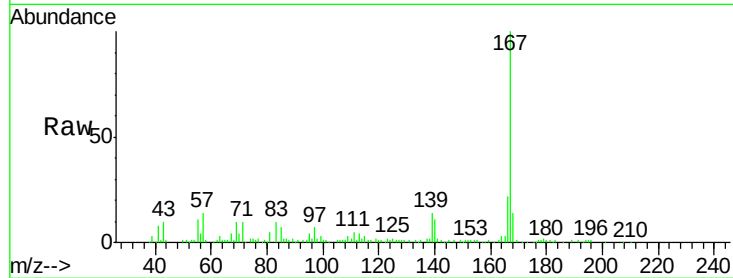
ClientSampleId :

S2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 72385 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.0  | 17.6  | 26.4  |
| 139       | 14.1  | 10.9  | 16.3  |

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4/16/2018 3:10:44 PM



#74

Fluoranthene

Concen: 25.549 ng

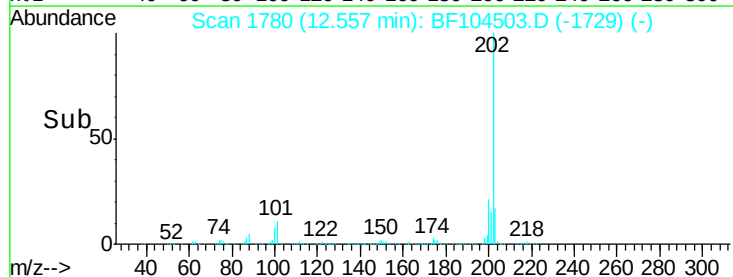
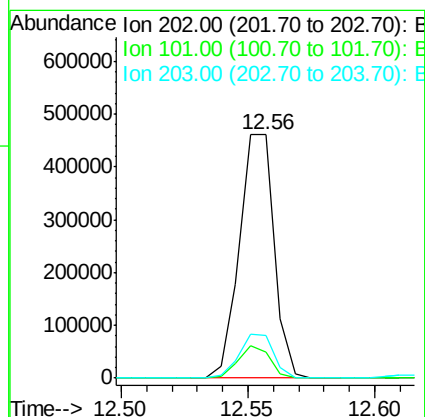
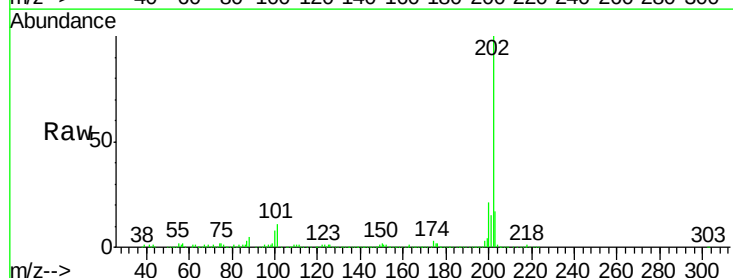
RT: 12.56 min Scan# 1780

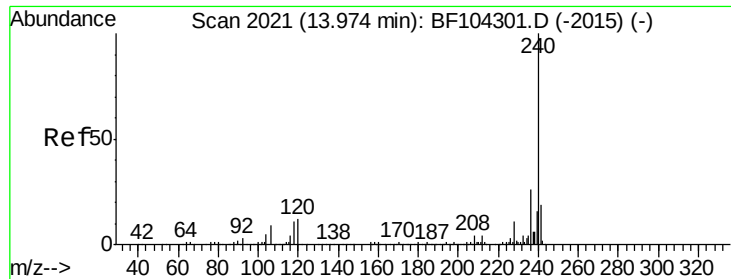
Delta R.T. 0.00 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 439924 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.8  | 0.0   | 34.1   |
| 203       | 17.4  | 0.0   | 38.1   |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

Instrument :

BNA\_F

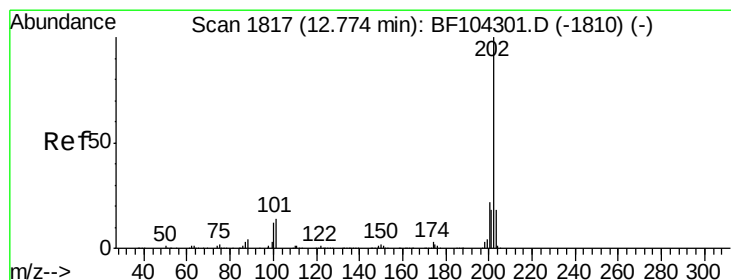
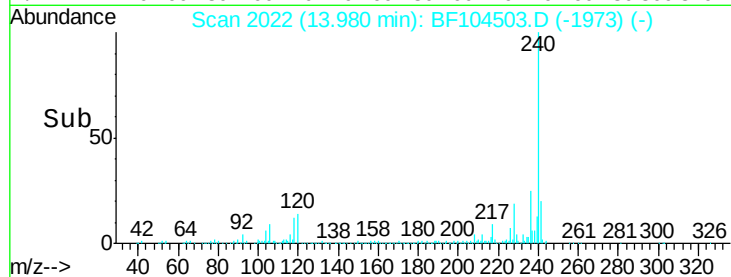
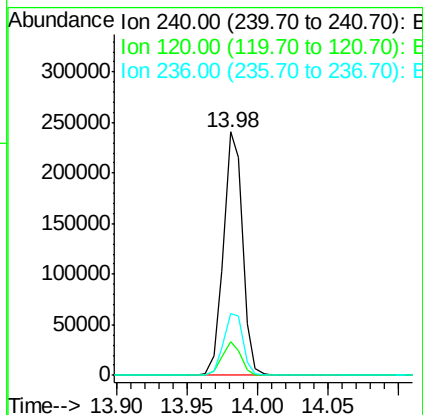
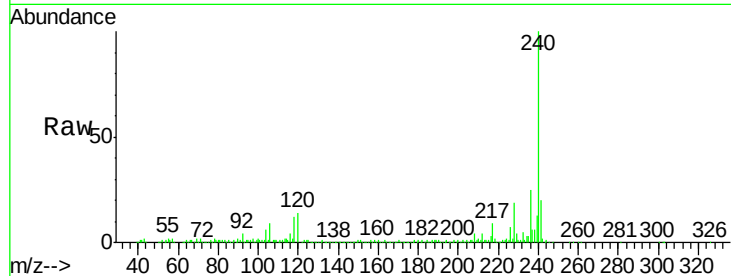
ClientSampled :

S2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 226944 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.8  | 9.5   | 14.3   |
| 236       | 25.2  | 20.7  | 31.1   |

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#77

Pyrene

Concen: 18.950 ng

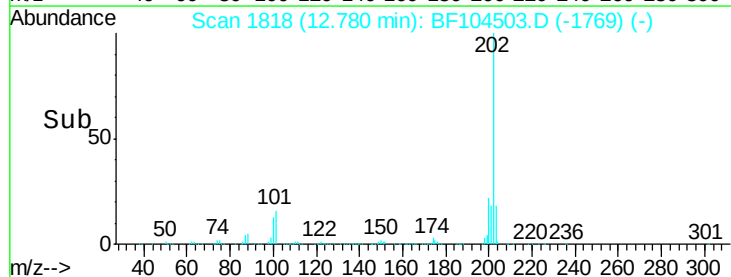
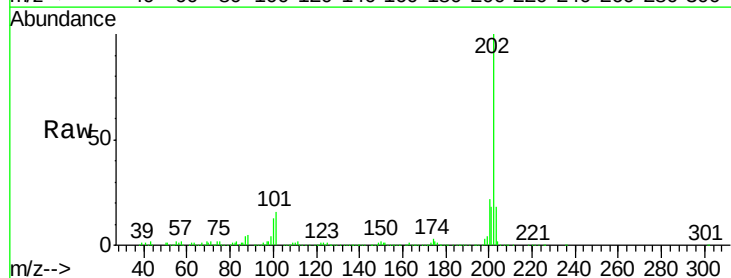
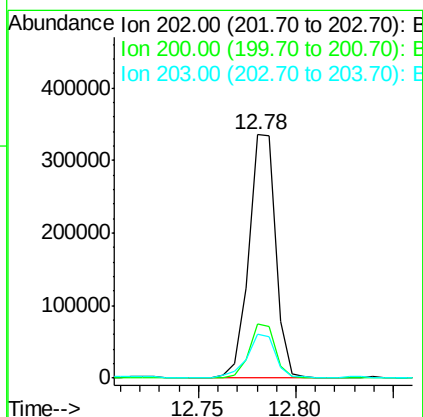
RT: 12.78 min Scan# 1818

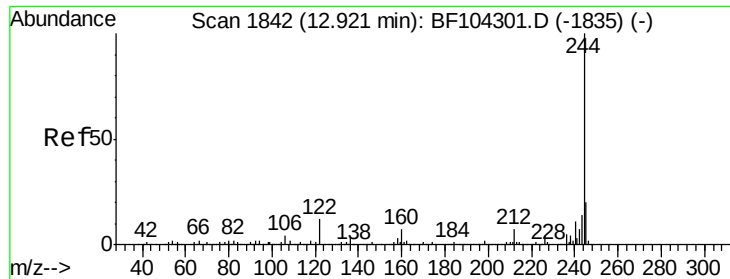
Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 318780 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 22.1  | 17.4  | 26.2   |
| 203       | 18.1  | 14.3  | 21.5   |





#78

Terphenyl-d14

Concen: 4.120 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.01 min

Lab File: BF104503.D

Acq: 14 Apr 2018 4:23

Instrument :

BNA\_F

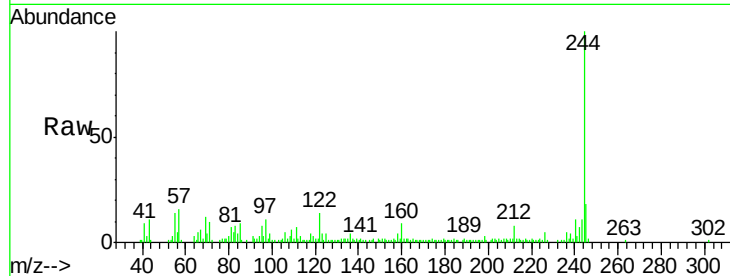
ClientSampled :

S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.3   | 5.4   | 8.0#  |
| 122     | 13.5  | 11.0  | 16.4  |

Manual Integrations  
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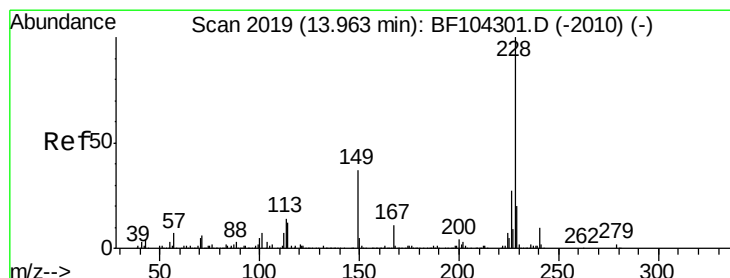
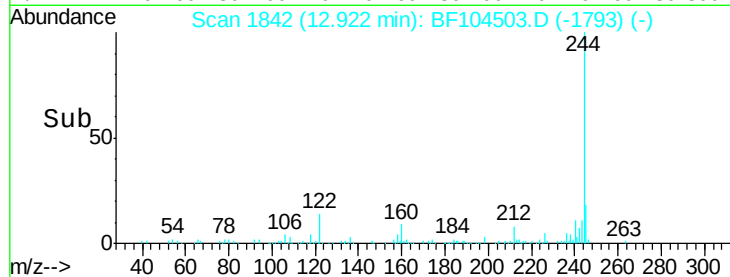
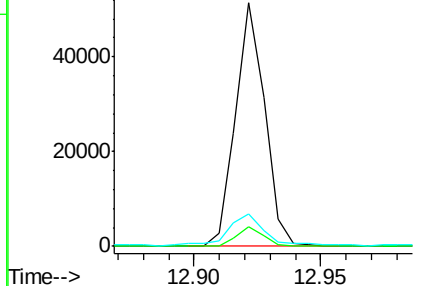
Sohil  
4/16/2018 3:10:44 PM



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: 9.248 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF104503.D

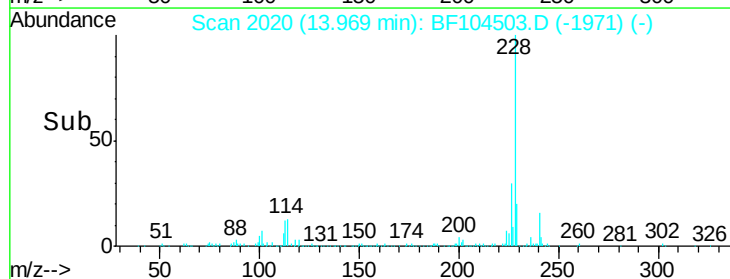
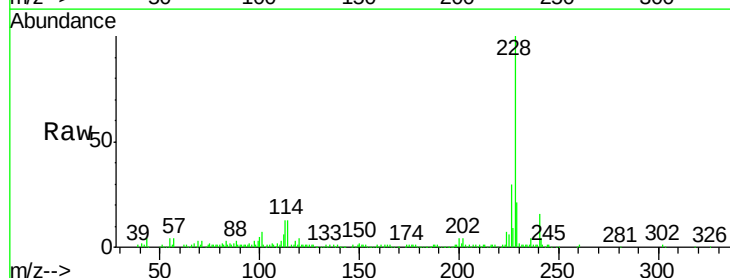
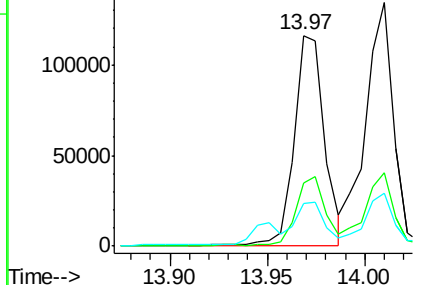
Acq: 14 Apr 2018 4:23

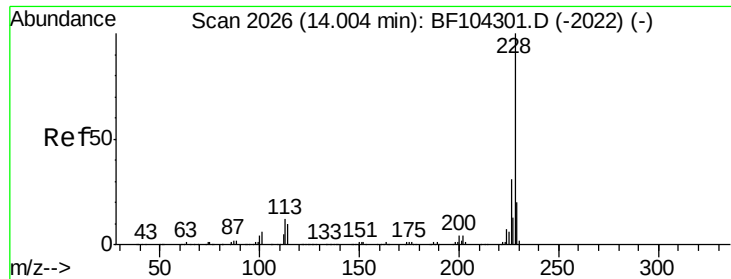
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 22.6  | 33.8  |
| 229     | 20.5  | 15.8  | 23.6  |

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





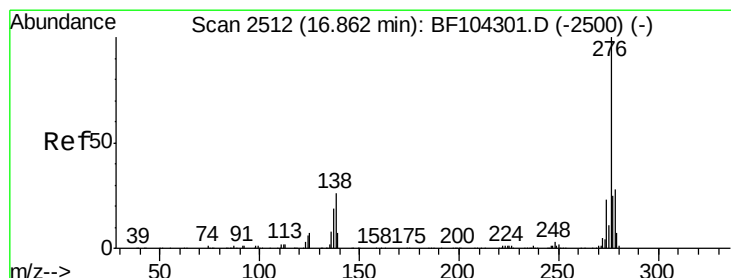
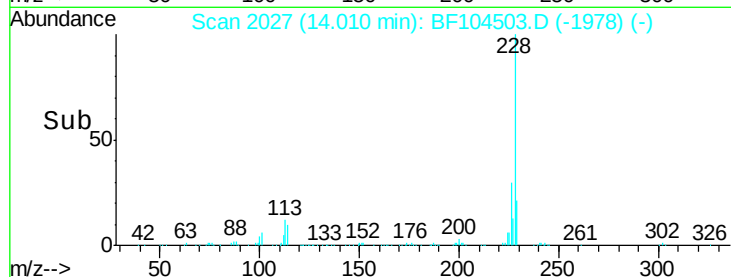
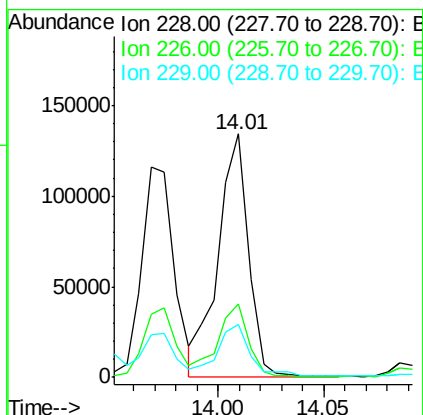
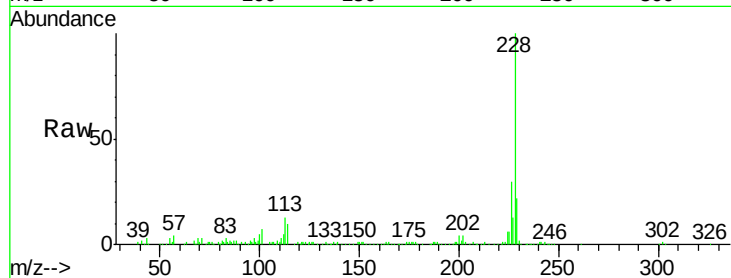
#82  
Chrysene  
Concen: 9.629 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

Instrument :  
BNA\_F  
ClientSampled :  
S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.0  | 37.6  |
| 229     | 21.7  | 16.2  | 24.4  |

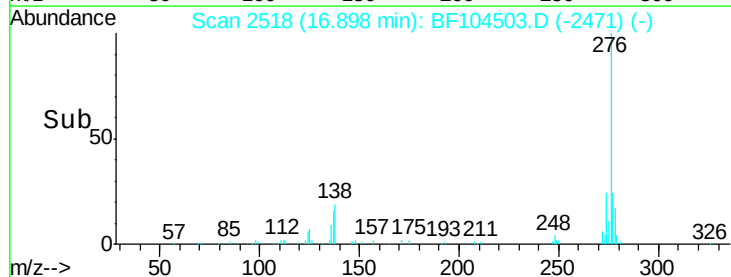
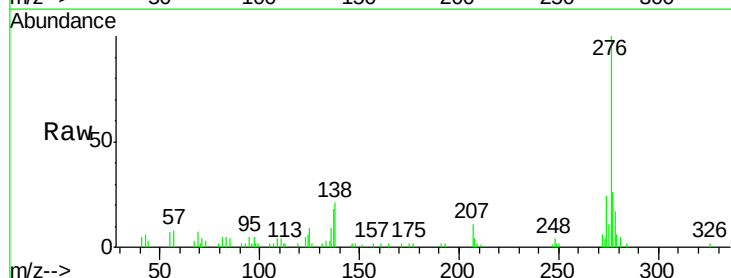
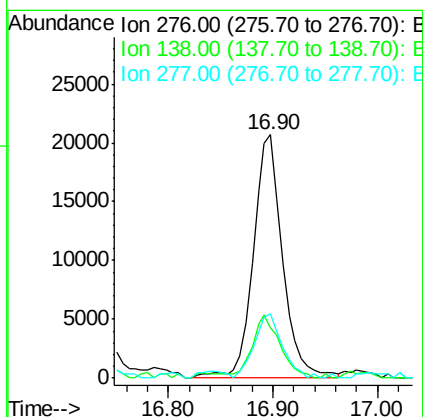
Manual Integrations  
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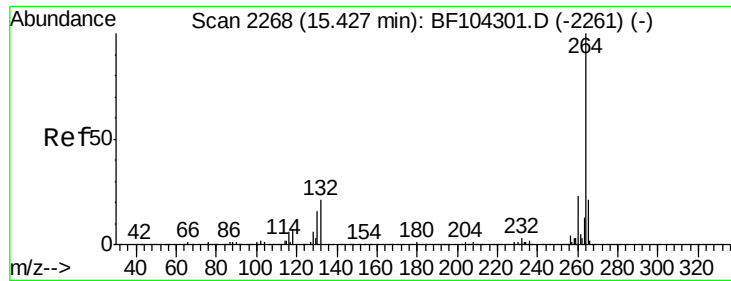
Sohil  
4/16/2018 3:10:44 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.412 ng m  
RT: 16.90 min Scan# 2518  
Delta R.T. -0.02 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 6.0   | 25.0  | 37.6# |
| 277     | 5.5   | 20.1  | 30.1# |





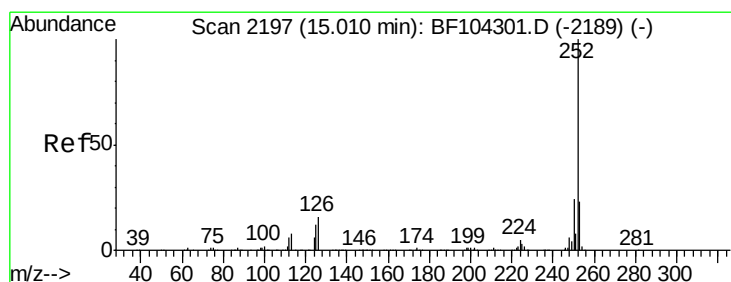
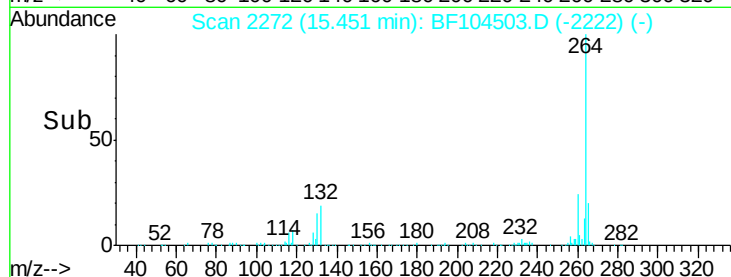
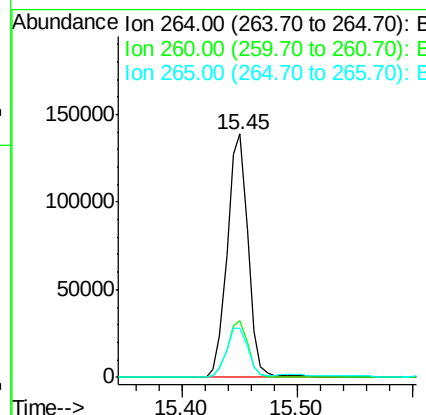
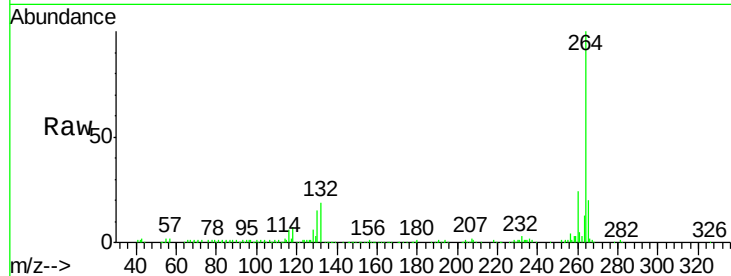
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

Instrument :  
BNA\_F  
ClientSampled :  
S2DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 172756 |       |       |
| 260     | 23.5  | 19.2   | 28.8  |       |
| 265     | 20.3  | 17.5   | 26.3  |       |

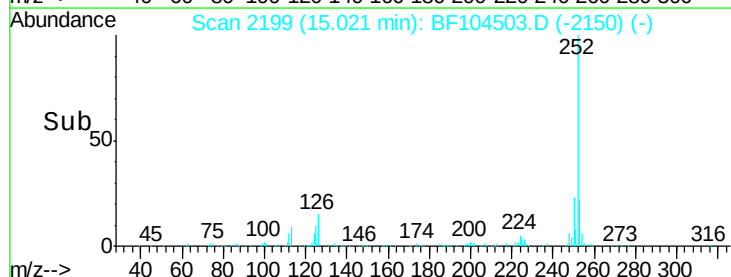
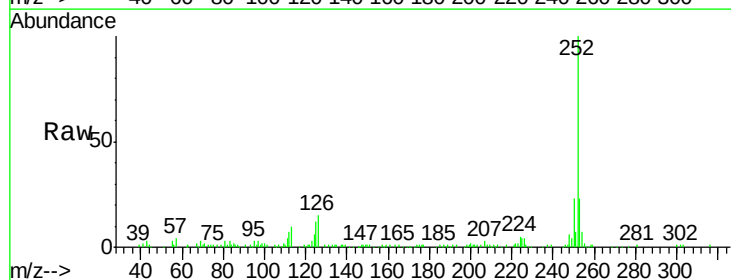
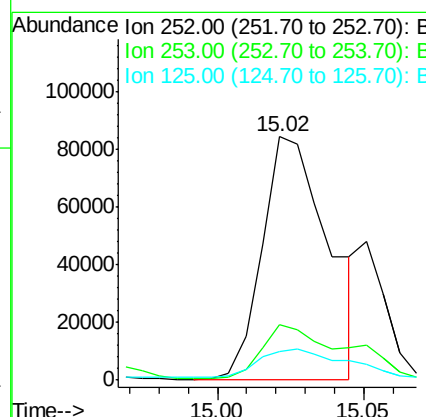
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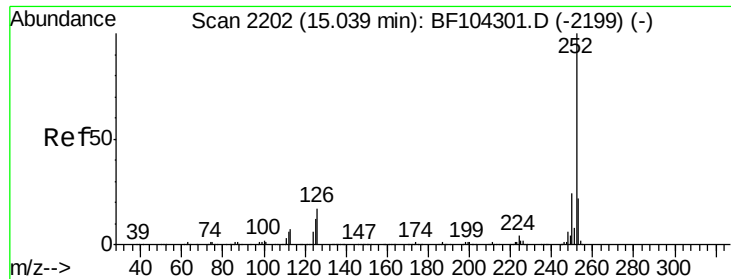
Sohil  
4/16/2018 3:10:44 PM



#87  
Benzo(b)fluoranthene  
Concen: 12.263 ng m  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 133797 |       |       |
| 253     | 22.9  | 17.0   | 25.6  |       |
| 125     | 12.0  | 9.0    | 13.6  |       |





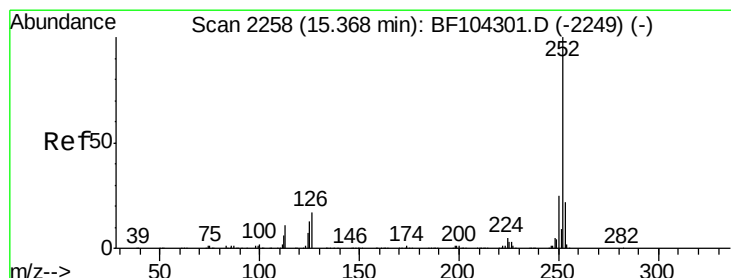
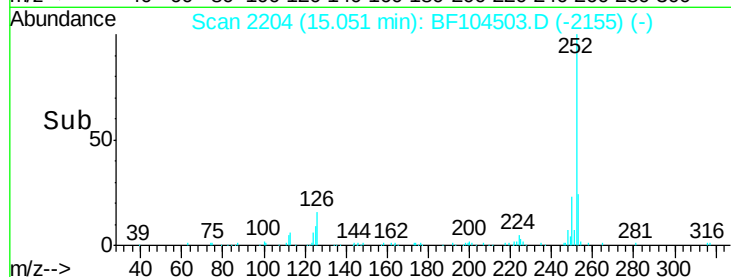
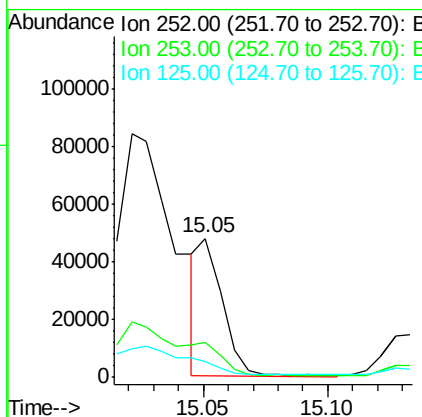
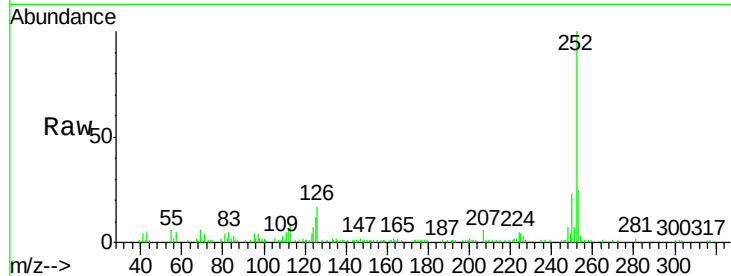
#88  
Benzo(k)fluoranthene  
Concen: 3.100 ng/mL  
RT: 15.05 min Scan# 2204  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

Instrument :  
BNA\_F  
ClientSampled :  
S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.9  | 26.9  |
| 125     | 11.6  | 10.2  | 15.2  |

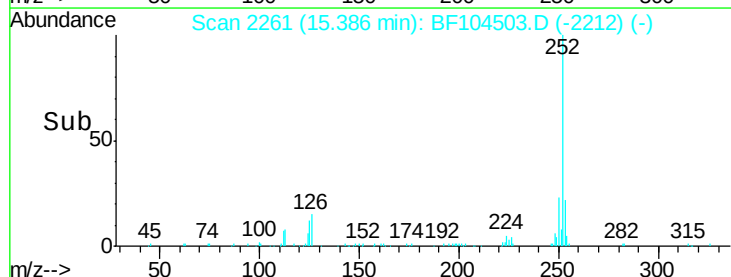
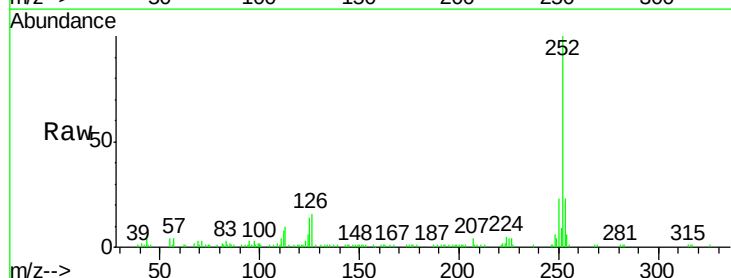
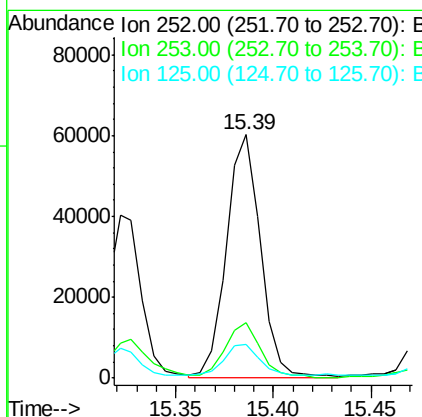
Manual Integrations  
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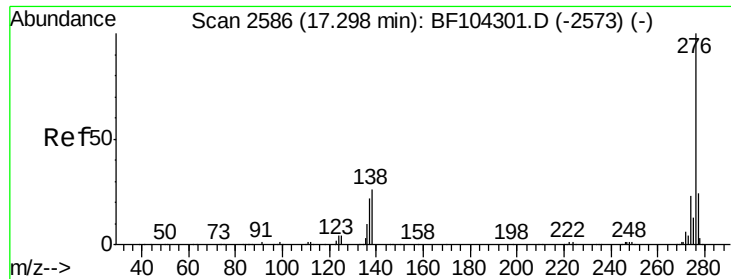
Sohil  
4/16/2018 3:10:44 PM



#89  
Benzo(a)pyrene  
Concen: 7.414 ng/mL  
RT: 15.39 min Scan# 2261  
Delta R.T. -0.01 min  
Lab File: BF104503.D  
Acq: 14 Apr 2018 4:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.1  | 25.7  |
| 125     | 13.9  | 9.8   | 14.6  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 4.102 ng  
 RT: 17.33 min Scan# 2592  
 Delta R.T. -0.03 min  
 Lab File: BF104503.D  
 Acq: 14 Apr 2018 4:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.9  | 17.9  | 26.9  |
| 138     | 26.5  | 21.8  | 32.8  |

Manual Integrations  
 APPROVED

Sohil  
 4/16/2018 3:10:44 PM

