

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\  
 Data File : BF109349.D  
 Acq On : 26 Sep 2018 20:48  
 Operator : JU/SJ  
 Sample : J4773-17  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-092518-D

Manual Integrations  
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Sohil  
 9/27/2018 1:31:36 PM

Quant Time: Sep 27 09:39:36 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.71  | 152  | 88215    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.99  | 136  | 288495   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.74  | 164  | 120644   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 248023   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.84 | 240  | 268458   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.24 | 264  | 210238   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 416853   | 77.83  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 505957   | 74.03  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 304028   | 62.21  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 114100   | 95.94  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 475671   | 59.46  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 530860   | 48.53  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.46  | 163  | 154821   | 17.644 | ng    | 98       |
| 70) Phenanthrene            | 11.24 | 178  | 38739    | 3.128  | ng    | 97       |
| 74) Fluoranthene            | 12.42 | 202  | 57635    | 4.355  | ng    | 96       |
| 77) Pyrene                  | 12.64 | 202  | 71468    | 3.715  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.83 | 228  | 34155    | 2.112  | ng    | 95       |
| 82) Chrysene                | 13.87 | 228  | 33916    | 2.116  | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 14.84 | 252  | 28736m   | 2.487  | ng    |          |
| 89) Benzo(a)pyrene          | 15.18 | 252  | 21127    | 2.030  | ng    | # 91     |

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

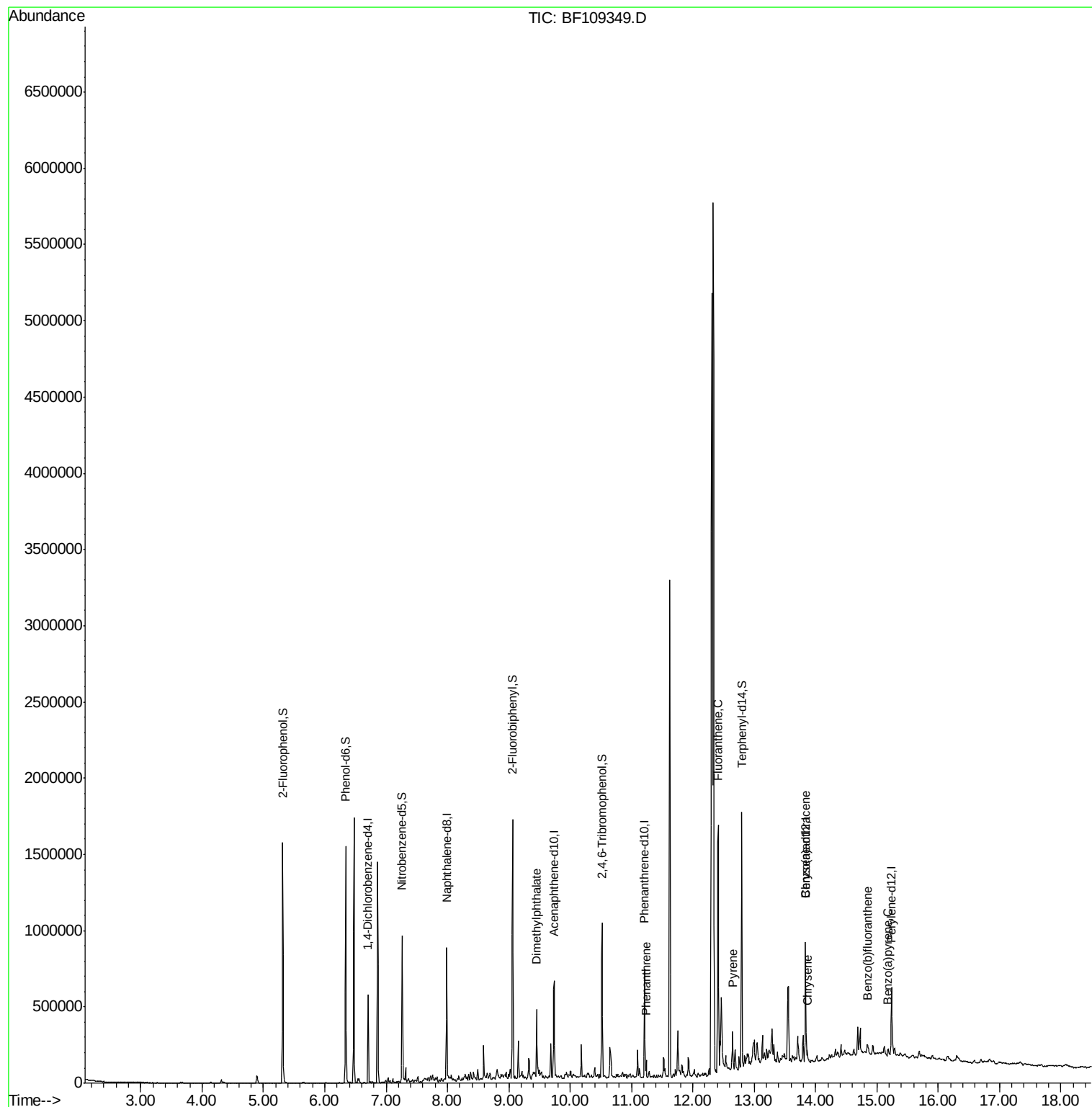
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\  
Data File : BF109349.D  
Acq On : 26 Sep 2018 20:48  
Operator : JU/SJ  
Sample : J4773-17  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

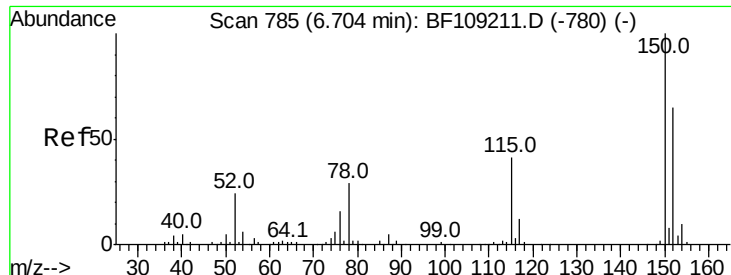
Instrument :  
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CL-02-092518-D

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 22 13:32:18 2018  
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#1

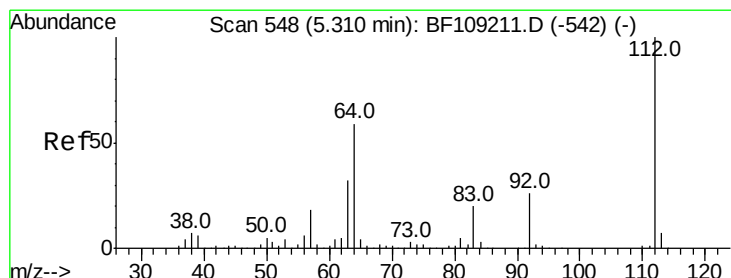
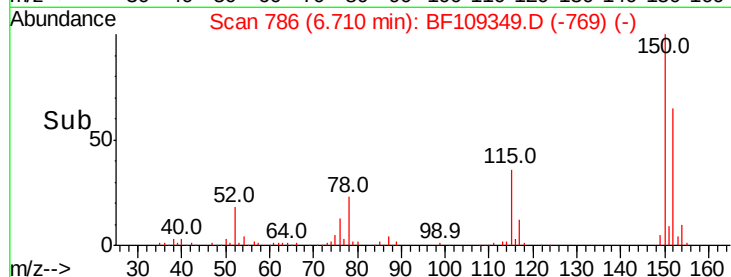
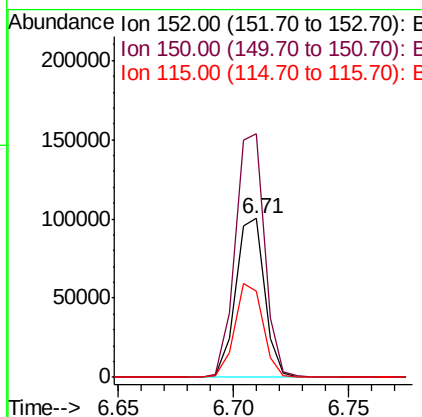
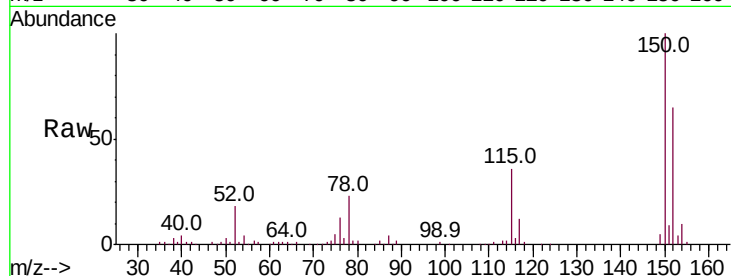
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.71 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092518-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.5 | 124.6 | 186.8 |
| 115     | 54.6  | 50.1  | 75.1  |

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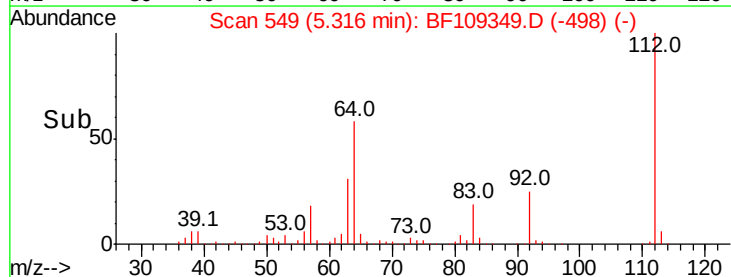
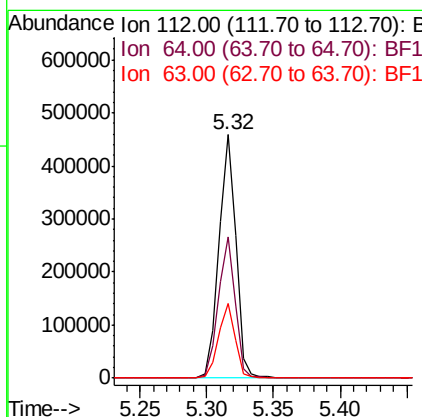
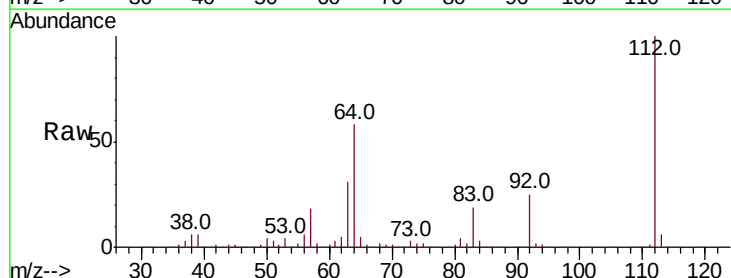
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9/27/2018 1:31:36 PM

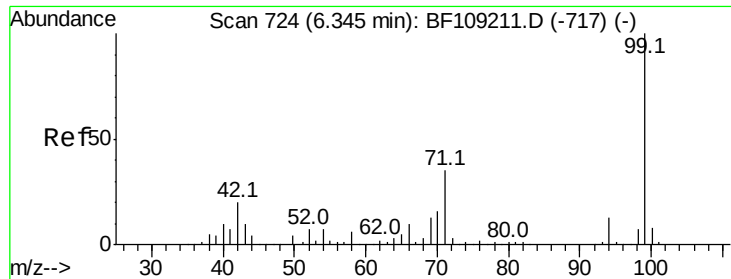


#5

2-Fluorophenol  
Concen: 77.831 ng  
RT: 5.32 min Scan# 549  
Delta R.T. -0.00 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.0  | 47.9  | 71.9  |
| 63      | 30.6  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 74.032 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF109349.D

Acq: 26 Sep 2018 20:48

Instrument :

BNA\_F

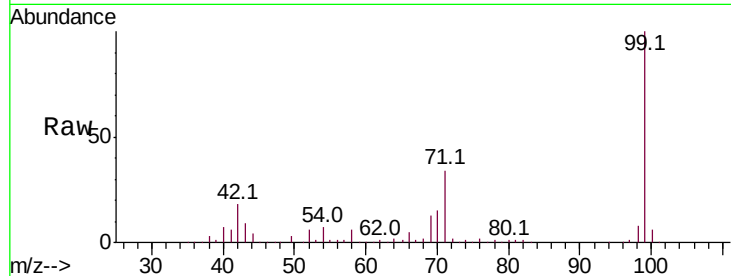
ClientSampled :

CL-02-092518-D

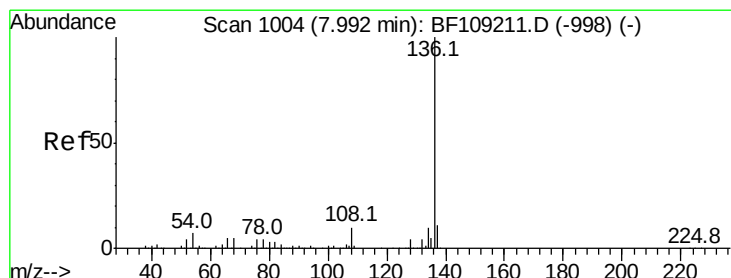
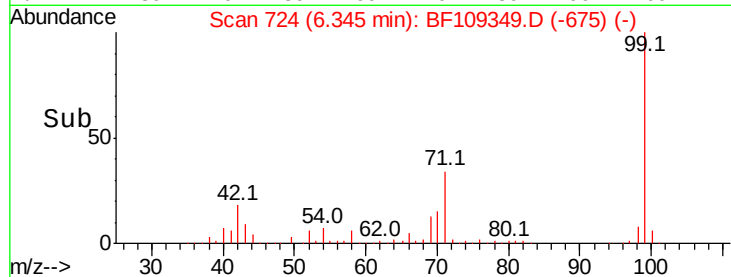
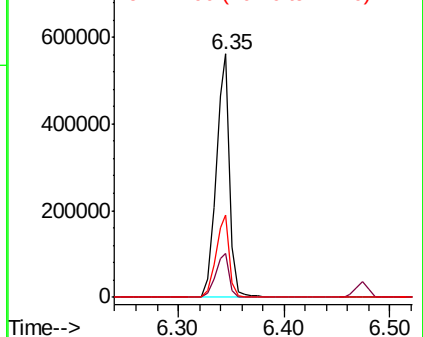
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 505957 |       |       |
| 42      | 18.1 | 14.5  | 21.7   |       |       |
| 71      | 33.7 | 25.4  | 38.0   |       |       |

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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1003

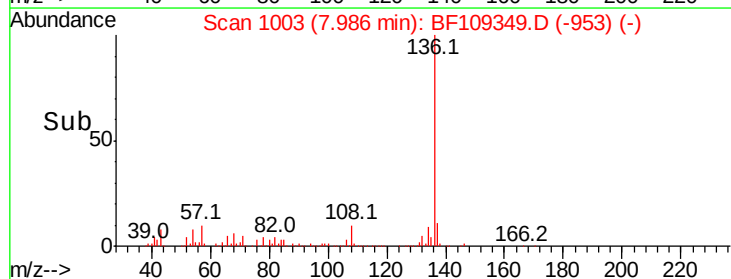
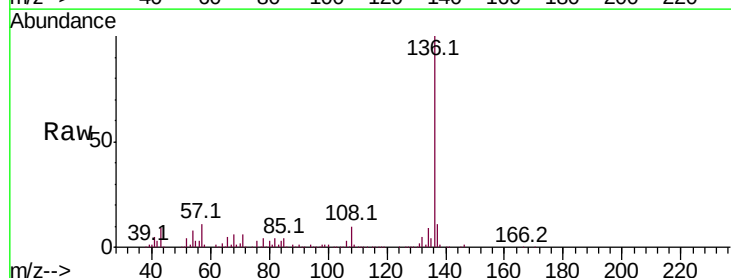
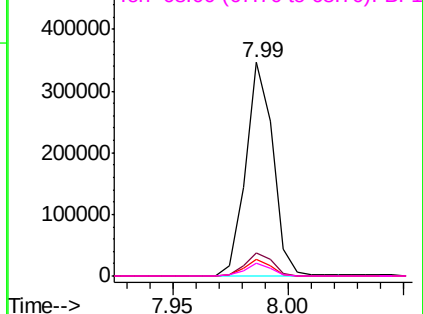
Delta R.T. -0.01 min

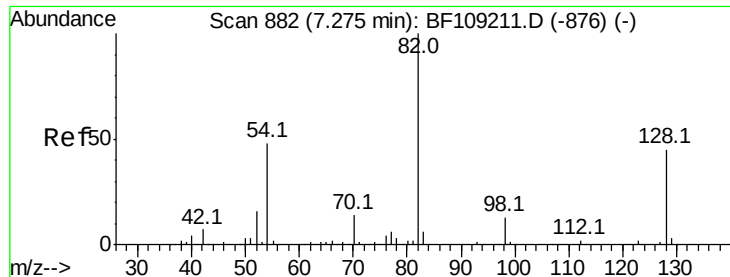
Lab File: BF109349.D

Acq: 26 Sep 2018 20:48

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 288495 |       |       |
| 137     | 10.7 | 8.9   | 13.3   |       |       |
| 54      | 7.6  | 6.6   | 9.8    |       |       |
| 68      | 6.1  | 5.0   | 7.4    |       |       |

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): BF1  
Ion 68.00 (67.70 to 68.70): BF1





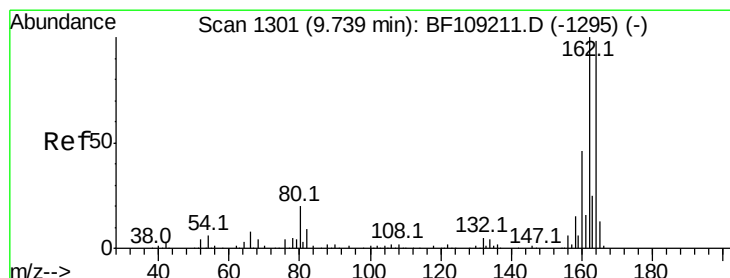
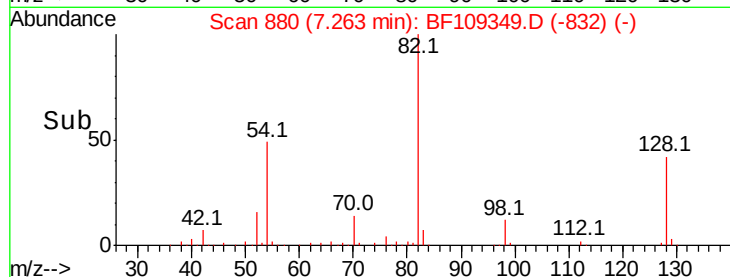
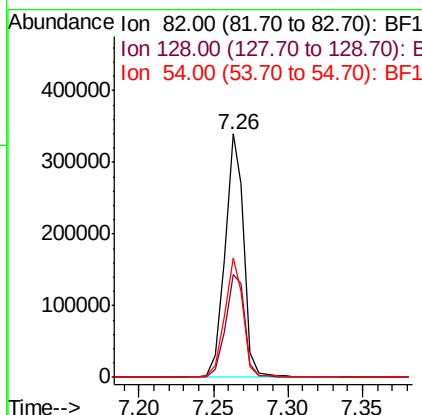
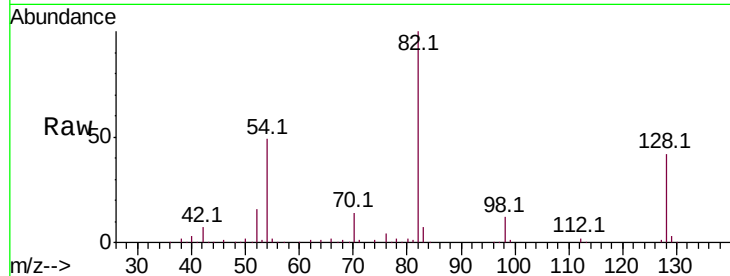
#23  
 Nitrobenzene-d5  
 Concen: 62.210 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.02 min  
 Lab File: BF109349.D  
 Acq: 26 Sep 2018 20:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-092518-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.4  | 36.1  | 54.1  |
| 54      | 49.1  | 41.4  | 62.2  |

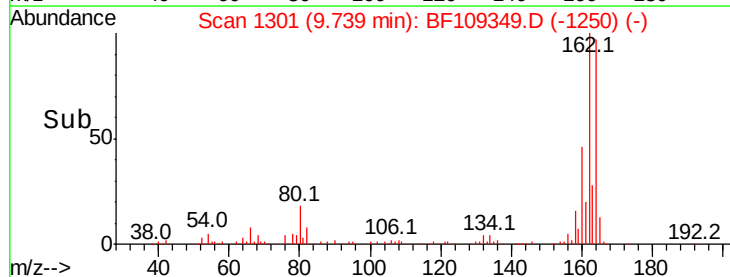
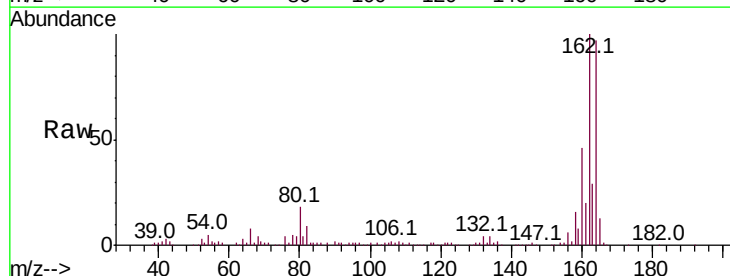
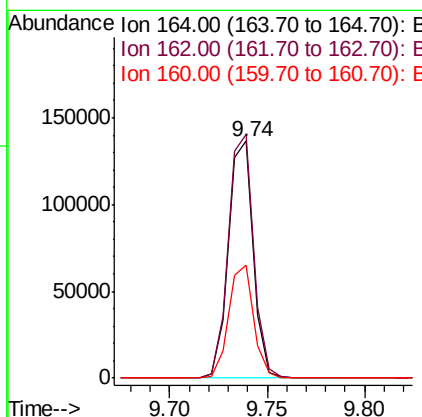
Manual Integrations  
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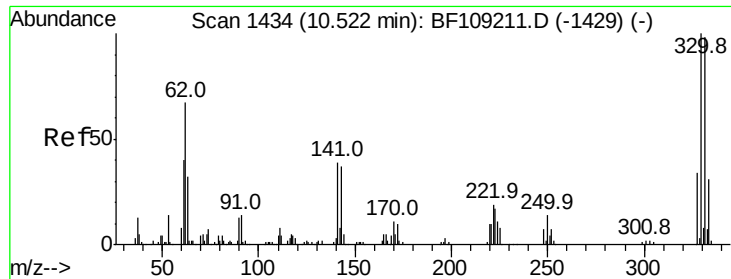
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.74 min Scan# 1301  
 Delta R.T. -0.00 min  
 Lab File: BF109349.D  
 Acq: 26 Sep 2018 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.9 | 86.1  | 129.1 |
| 160     | 47.6  | 38.3  | 57.5  |





#41

2,4,6-Tribromophenol

Concen: 95.939 ng

RT: 10.52 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF109349.D

Acq: 26 Sep 2018 20:48

Instrument :

BNA\_F

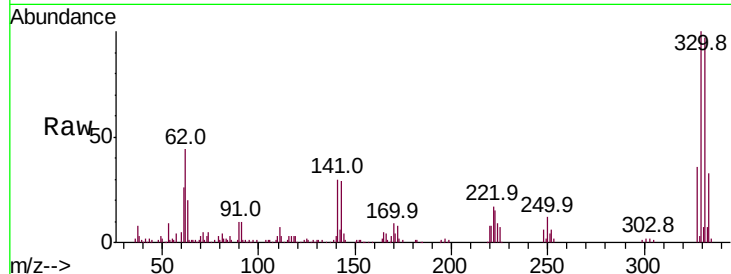
ClientSampled :

CL-02-092518-D

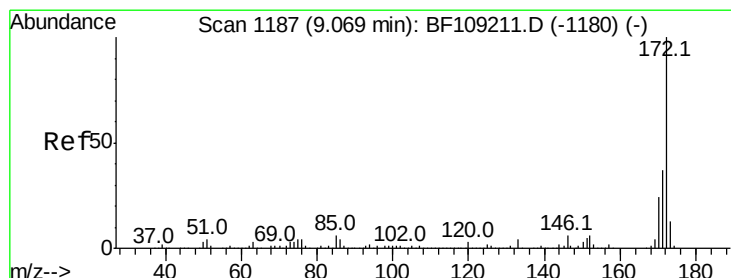
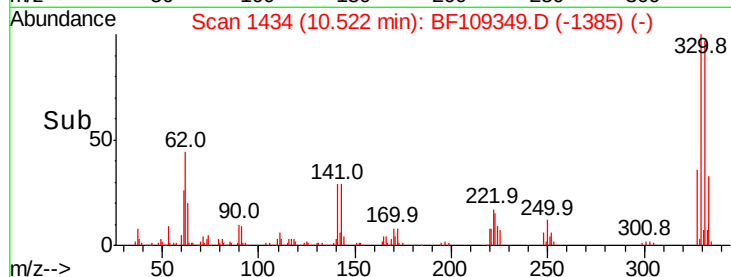
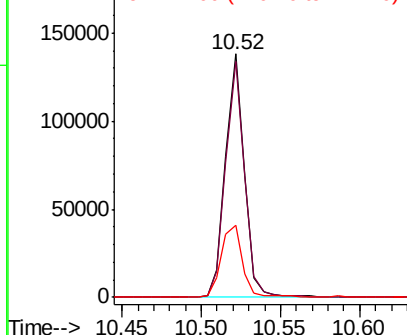
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 114100 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.4  | 77.0  | 115.6  |
| 141       | 34.8  | 29.9  | 44.9   |

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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: 59.464 ng

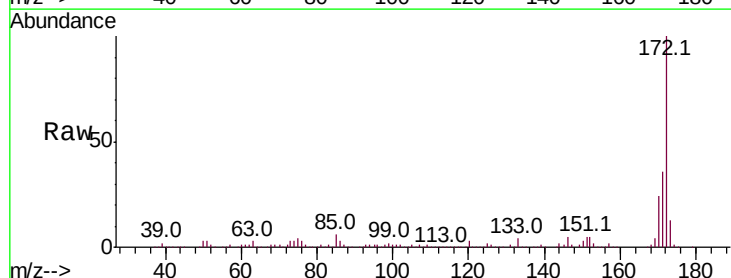
RT: 9.06 min Scan# 1186

Delta R.T. -0.01 min

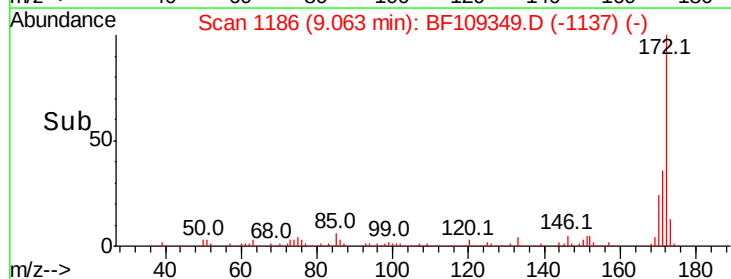
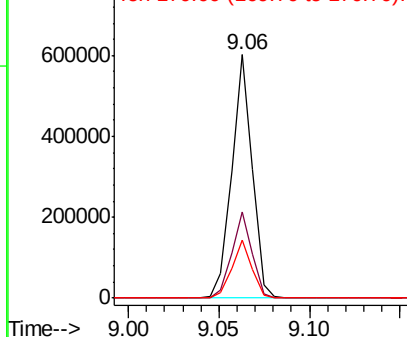
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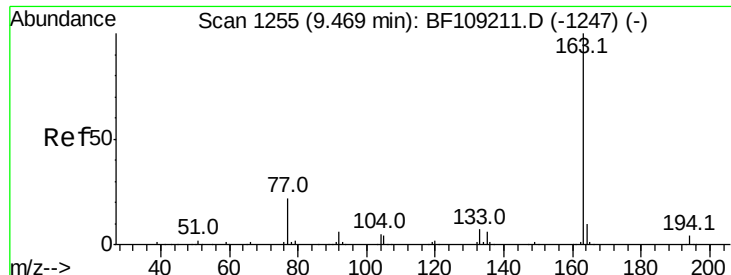
Acq: 26 Sep 2018 20:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 475671 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.6  | 29.7  | 44.5   |
| 170       | 23.7  | 19.6  | 29.4   |



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





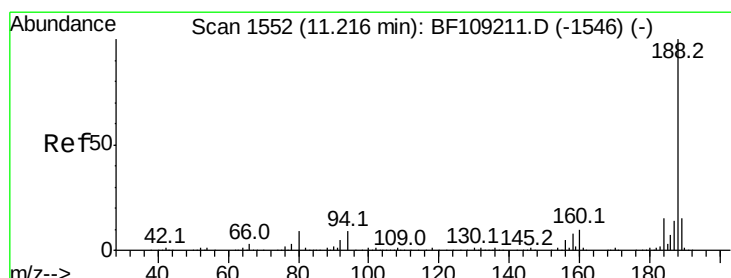
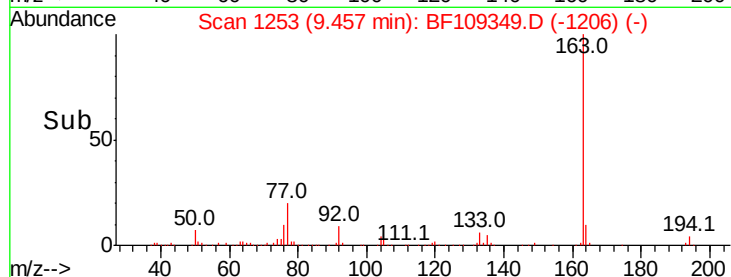
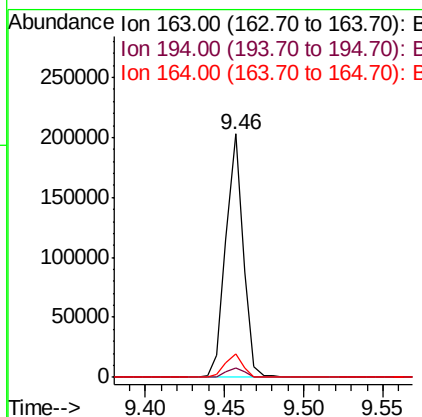
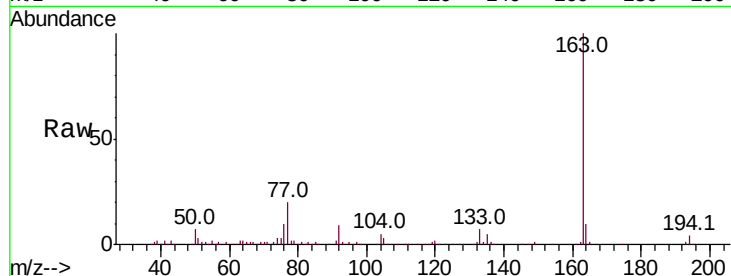
#49  
Dimethylphthalate  
Concen: 17.644 ng  
RT: 9.46 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092518-D

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 154821 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.9   | 2.7   | 4.1    |
| 164       | 9.5   | 8.2   | 12.2   |

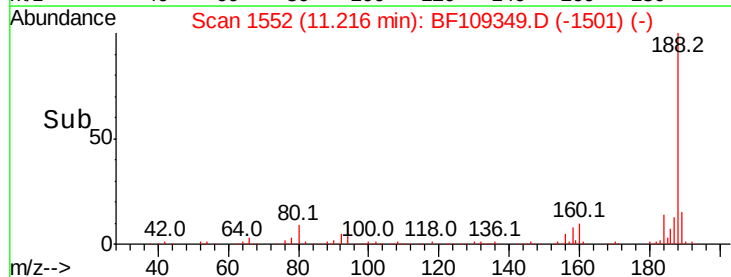
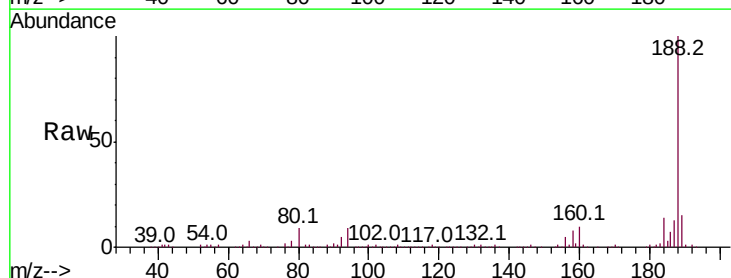
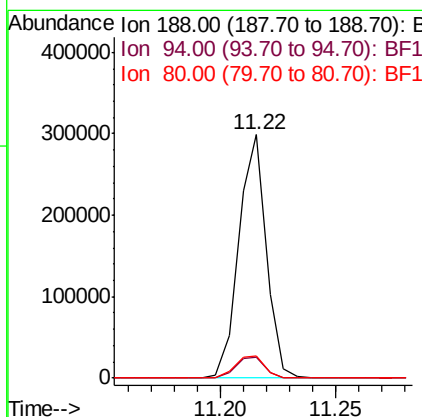
Manual Integrations  
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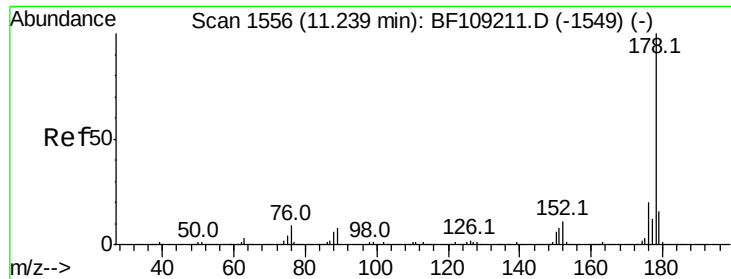
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. -0.00 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 248023 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.5   | 8.5   | 12.7   |
| 80        | 9.0   | 9.2   | 13.8#  |





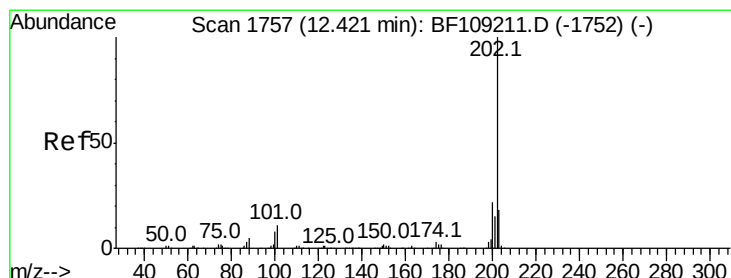
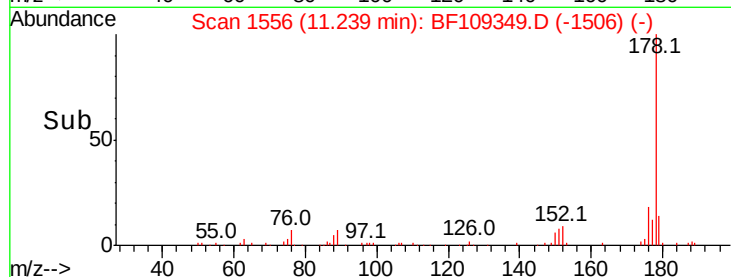
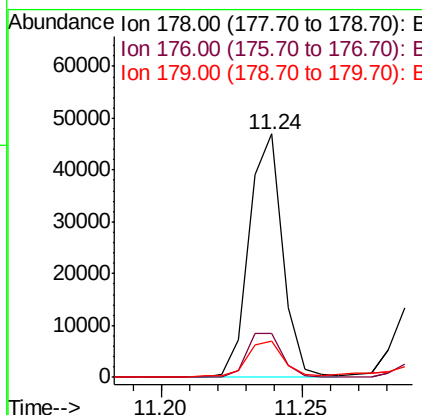
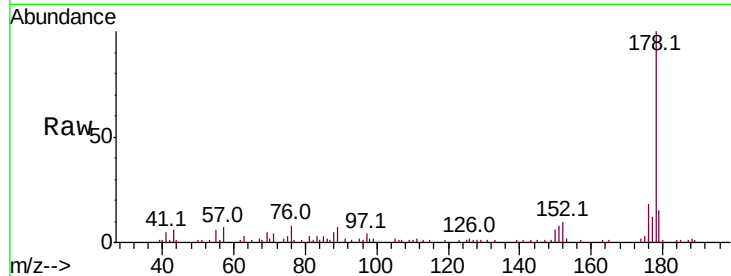
#70  
Phenanthrene  
Concen: 3.128 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092518-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.8  | 23.8  |
| 179     | 15.0  | 13.0  | 19.6  |

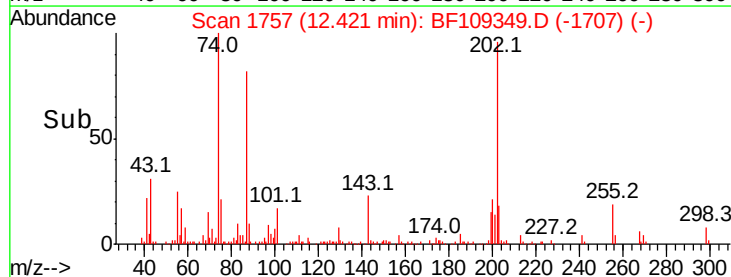
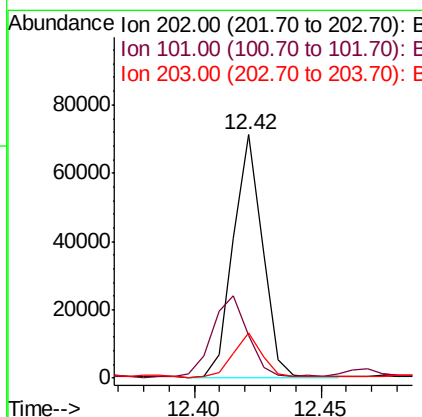
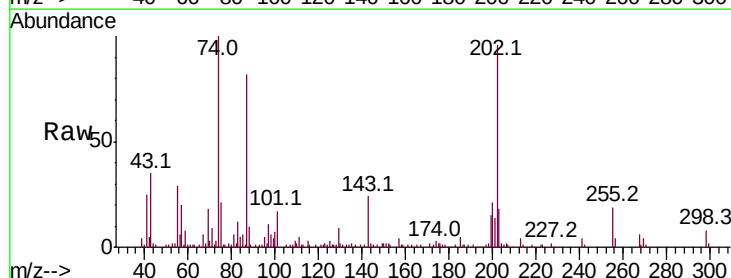
Manual Integrations  
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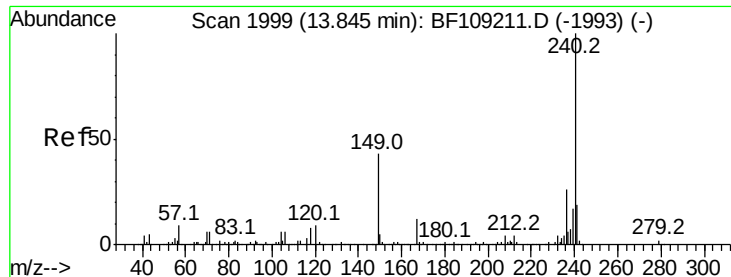


#74  
Fluoranthene  
Concen: 4.355 ng  
RT: 12.42 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.7  | 0.0   | 34.1  |
| 203     | 18.3  | 0.0   | 38.1  |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BF109349.D

Acq: 26 Sep 2018 20:48

Instrument :

BNA\_F

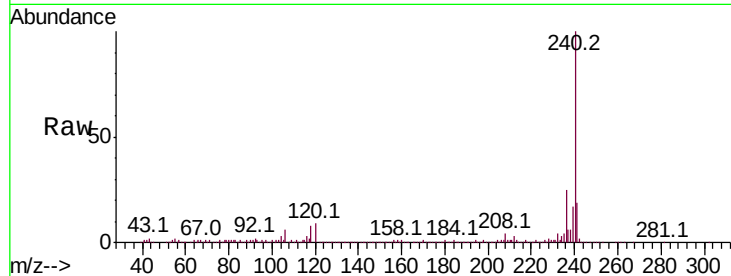
ClientSampleId :

CL-02-092518-D

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 268458 |       |       |
| 120     | 9.2   | 9.5    | 14.3# |       |
| 236     | 25.1  | 20.7   | 31.1  |       |

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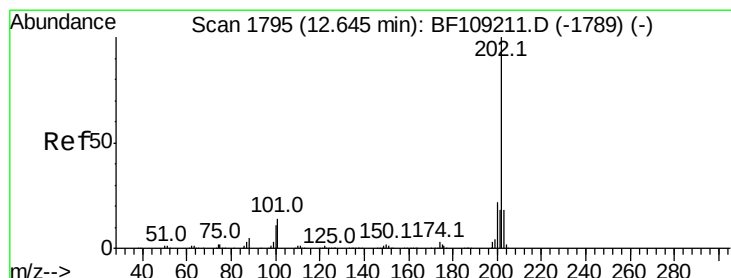
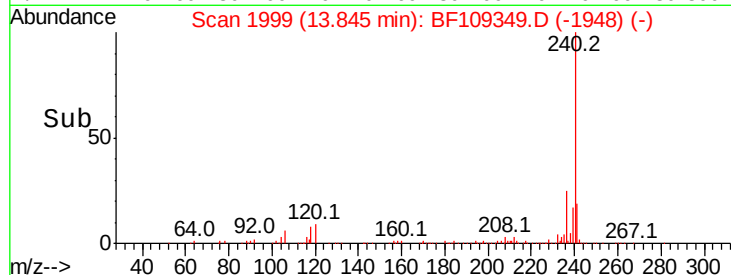
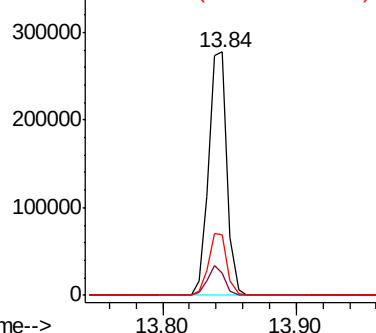
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 3.715 ng

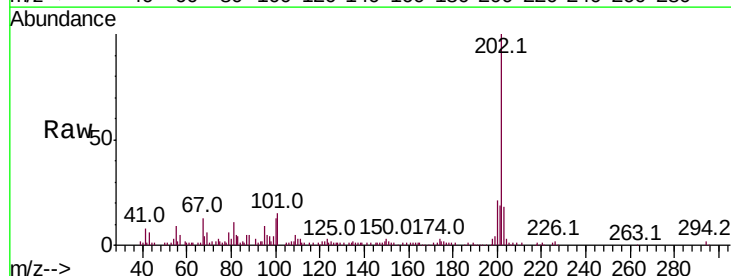
RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF109349.D

Acq: 26 Sep 2018 20:48

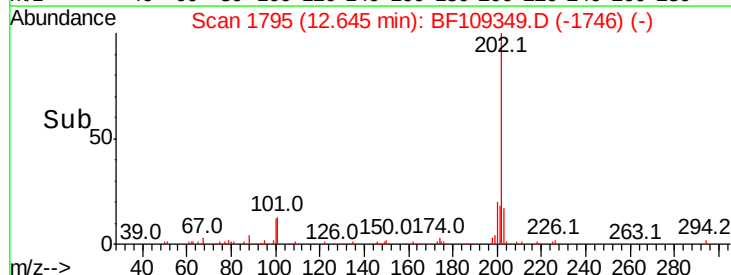
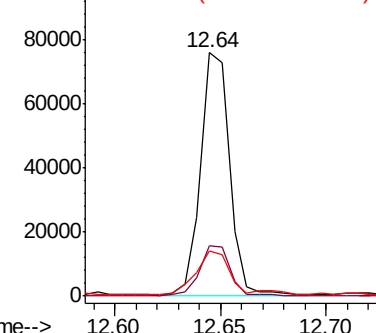
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 71468 |       |       |
| 200     | 20.5  | 17.4  | 26.2  |       |
| 203     | 18.3  | 14.3  | 21.5  |       |

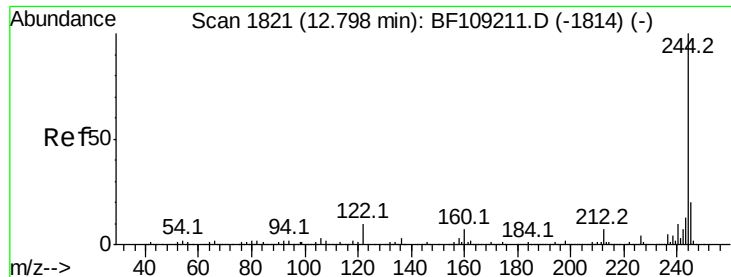


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





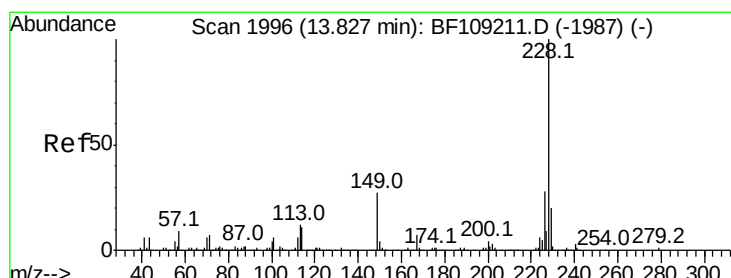
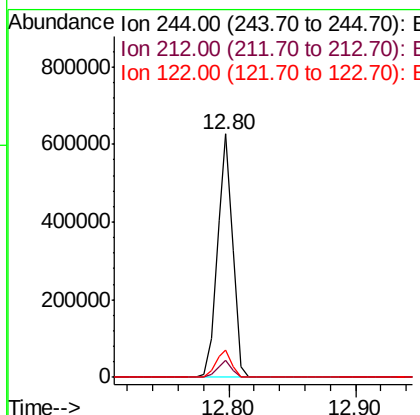
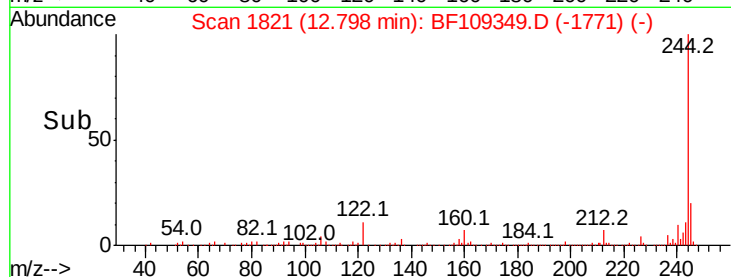
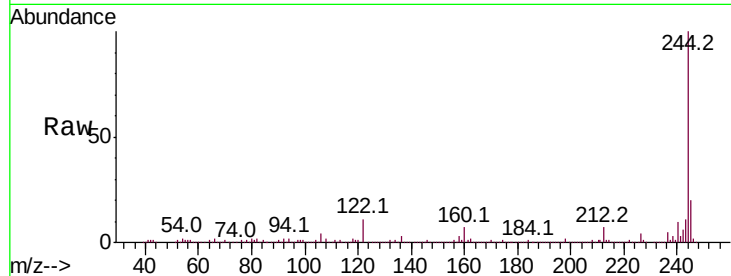
#78  
 Terphenyl-d14  
 Concen: 48.530 ng  
 RT: 12.80 min Scan# 1821  
 Delta R.T. -0.01 min  
 Lab File: BF109349.D  
 Acq: 26 Sep 2018 20:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-092518-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 11.2  | 11.0  | 16.4  |

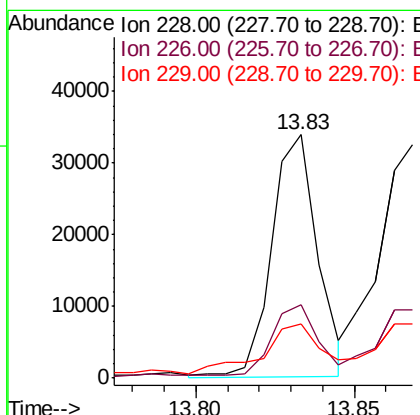
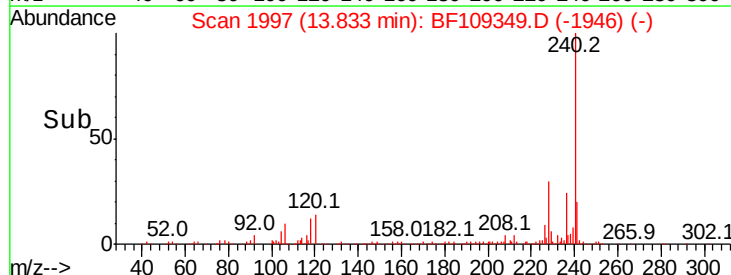
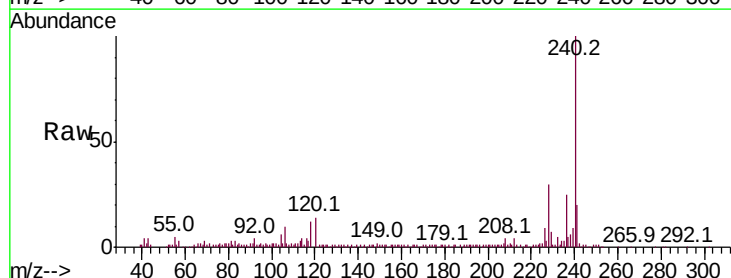
Manual Integrations  
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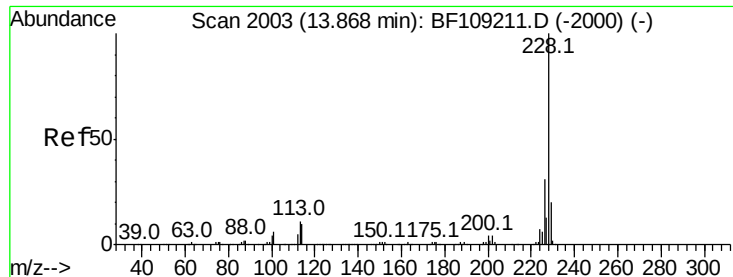
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#80  
 Benzo(a)anthracene  
 Concen: 2.112 ng  
 RT: 13.83 min Scan# 1997  
 Delta R.T. -0.00 min  
 Lab File: BF109349.D  
 Acq: 26 Sep 2018 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 22.6  | 33.8  |
| 229     | 22.5  | 15.8  | 23.6  |





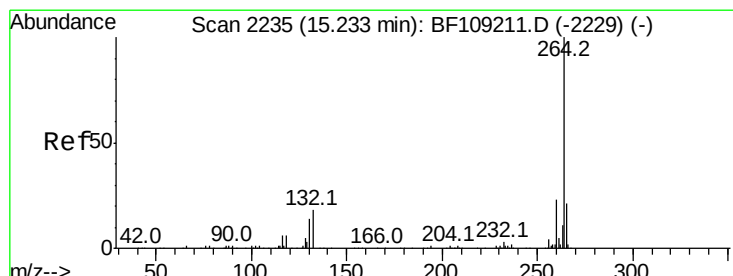
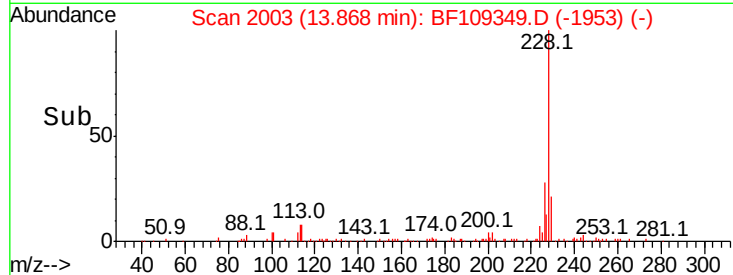
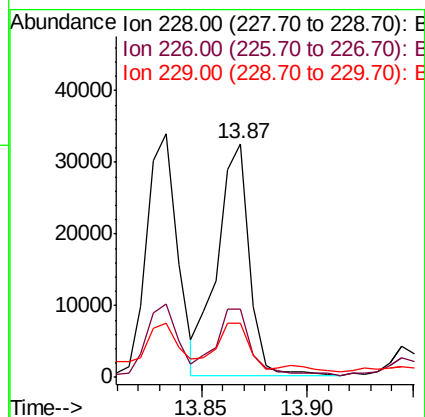
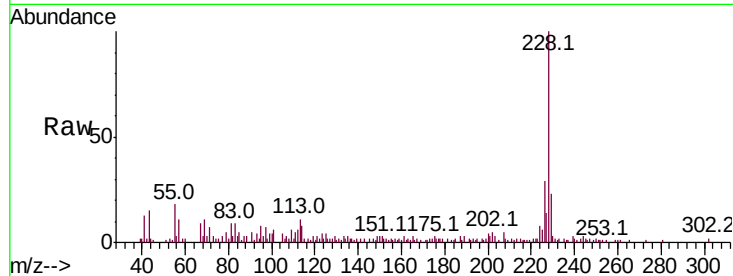
#82  
Chrysene  
Concen: 2.116 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.01 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092518-D

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 33916 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.1  | 25.0  | 37.6  |
| 229       | 23.2  | 16.2  | 24.4  |

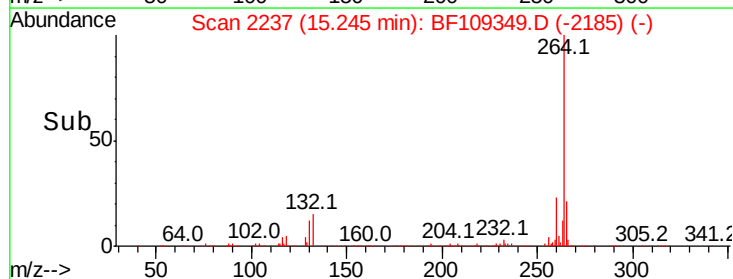
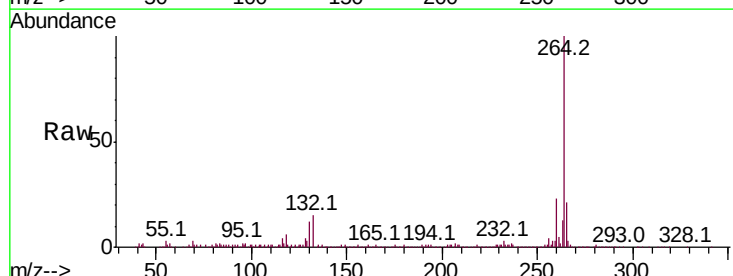
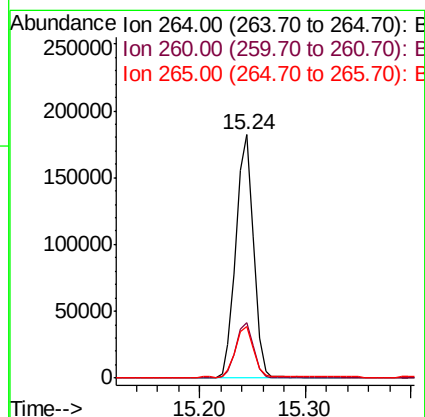
Manual Integrations  
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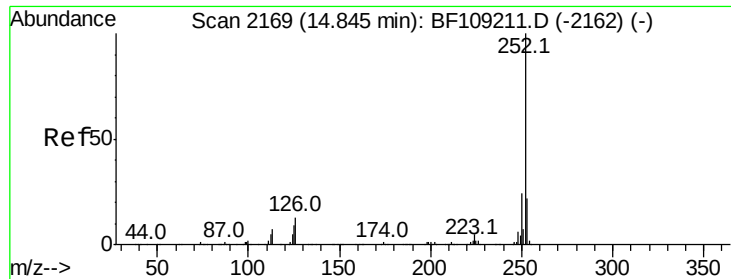
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.24 min Scan# 2237  
Delta R.T. 0.01 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 210238 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 22.8  | 19.2  | 28.8   |
| 265       | 21.2  | 17.5  | 26.3   |





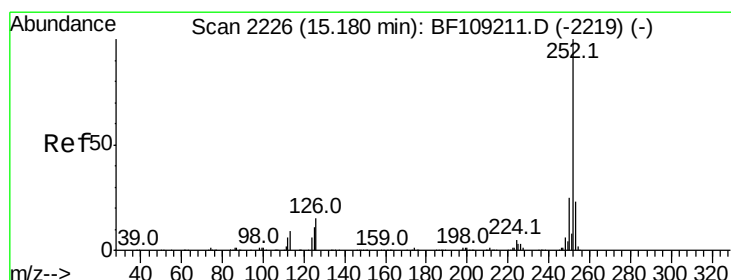
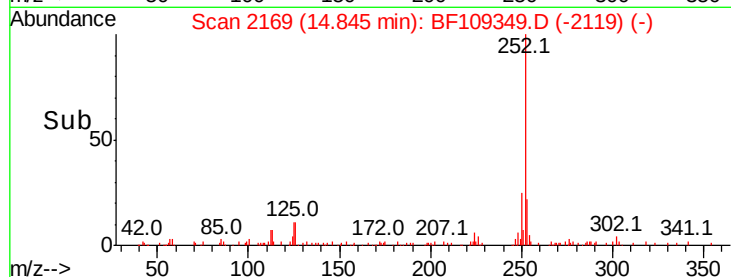
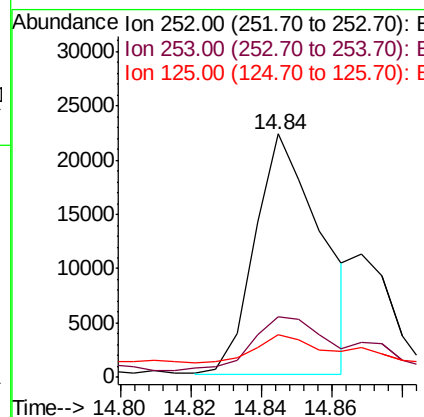
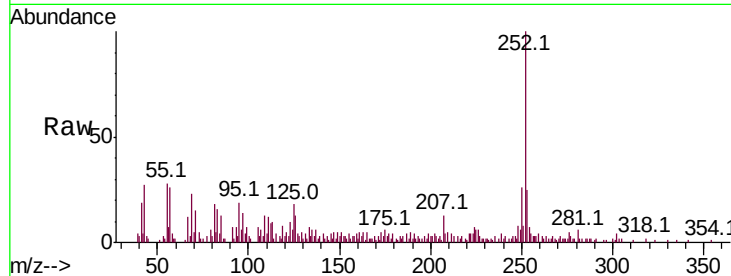
#87  
Benzo(b)fluoranthene  
Concen: 2.487 ng m  
RT: 14.84 min Scan# 2169  
Delta R.T. -0.01 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092518-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.0  | 25.6  |
| 125     | 17.8  | 9.0   | 13.6  |

Manual Integrations  
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#89  
Benzo(a)pyrene  
Concen: 2.030 ng  
RT: 15.18 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BF109349.D  
Acq: 26 Sep 2018 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.1  | 25.7  |
| 125     | 18.5  | 9.8   | 14.6  |

