

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080218\  
 Data File : BF107919.D  
 Acq On : 2 Aug 2018 19:45  
 Operator : JU/SJ  
 Sample : J4260-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-LINER-RO-135

Manual Integrations  
 APPROVED

Sohil  
 8/3/2018 12:53:28 PM

Quant Time: Aug 03 03:43:18 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 30 17:48:53 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 117678   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.24  | 136  | 511321   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 10.00 | 164  | 189531   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.49 | 188  | 340075   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 14.14 | 240  | 359038   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.68 | 264  | 278575   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.61  | 112  | 153678   | 22.19  | ng    | 0.02     |
| 7) Phenol-d6                | 6.61  | 99   | 326845   | 35.82  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 206251   | 23.24  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 54770    | 21.27  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 483480   | 35.55  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.07 | 244  | 490611   | 29.63  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 51) Acenaphthene            | 10.02 | 154  | 50123    | 4.279  | ng    | 98       |
| 54) Dibenzofuran            | 10.21 | 168  | 38923    | 2.150  | ng    | 93       |
| 57) Fluorene                | 10.55 | 166  | 55860    | 3.970  | ng    | 94       |
| 70) Phenanthrene            | 11.51 | 178  | 339521   | 21.026 | ng    | 97       |
| 71) Anthracene              | 11.57 | 178  | 80247m   | 4.308  | ng    |          |
| 74) Fluoranthene            | 12.71 | 202  | 218622   | 11.524 | ng    | 94       |
| 77) Pyrene                  | 12.94 | 202  | 149226   | 5.772  | ng    | 98       |

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

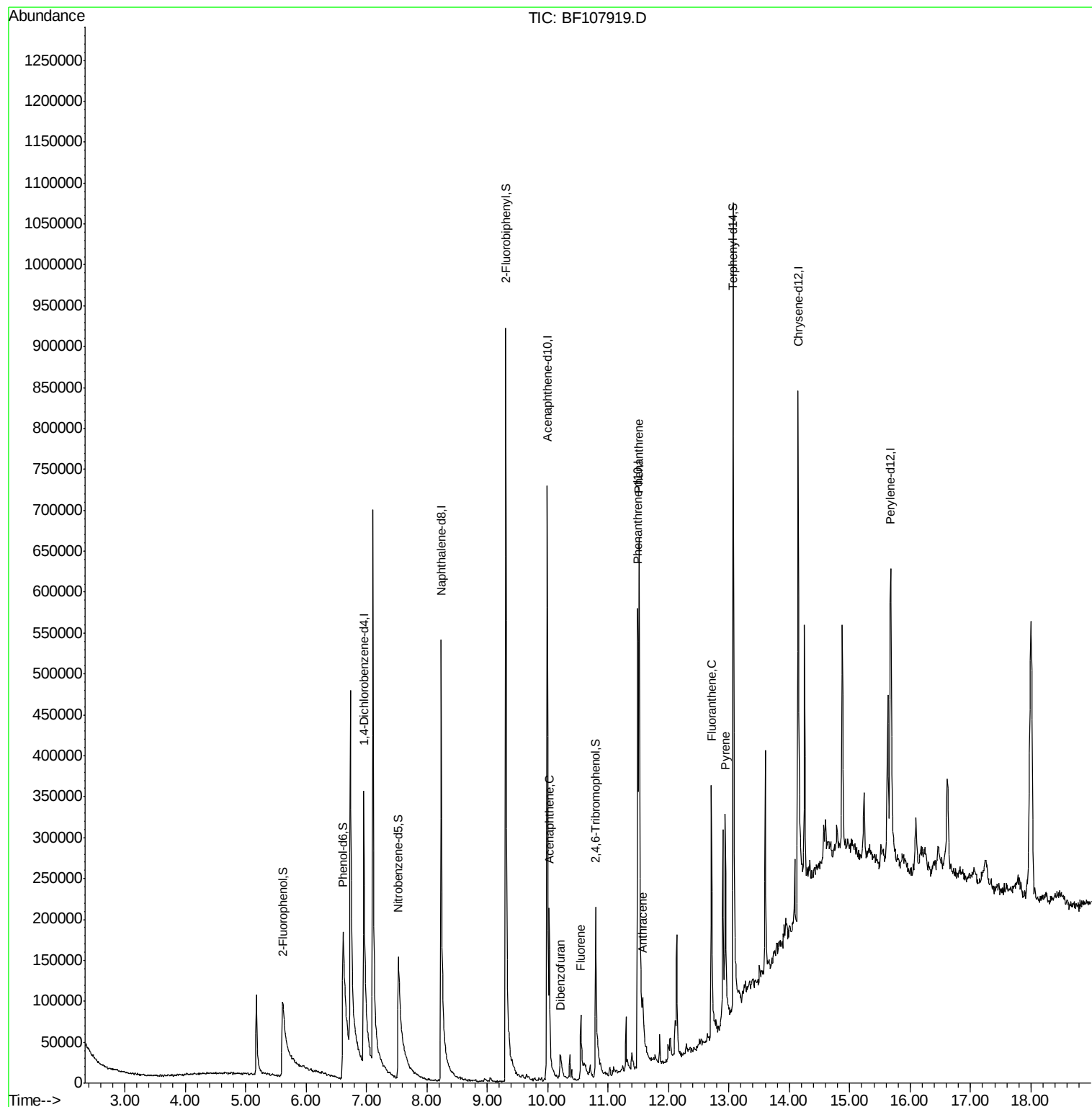
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080218\  
Data File : BF107919.D  
Acq On : 2 Aug 2018 19:45  
Operator : JU/SJ  
Sample : J4260-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

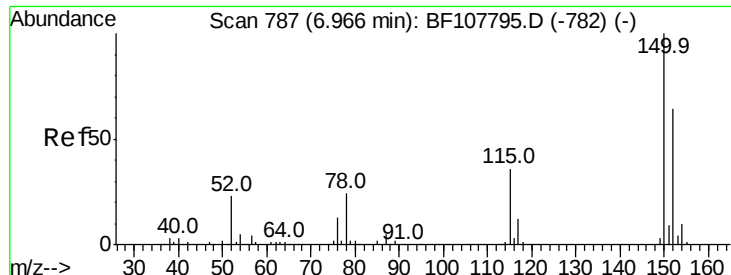
Instrument :  
BNA\_F  
ClientSampleId :  
TS-LINER-RO-135

Manual Integrations  
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Quant Time: Aug 03 03:43:18 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 30 17:48:53 2018  
Response via : Initial Calibration





#1

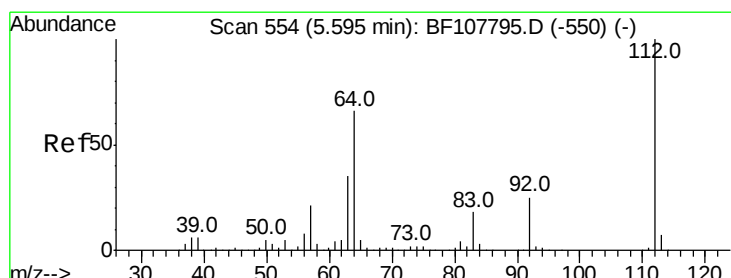
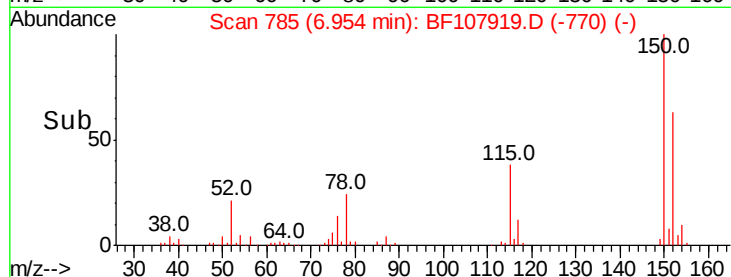
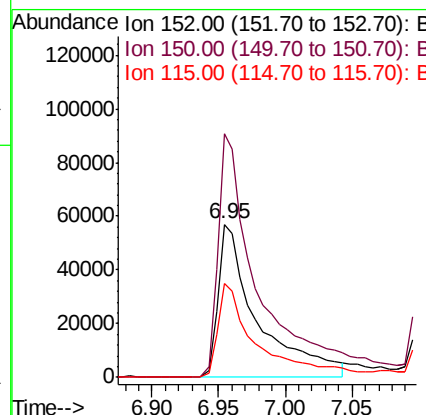
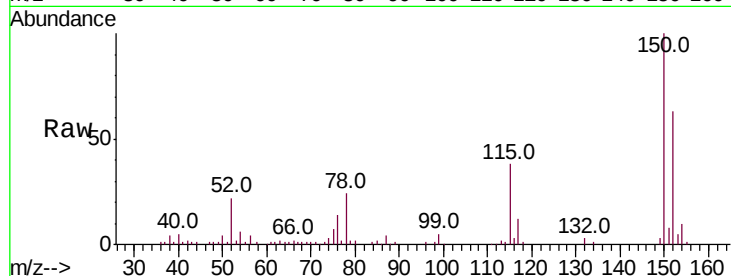
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

Instrument :  
BNA\_F  
ClientSampleId :  
TS-LINER-RO-135

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.2 | 124.6 | 186.8 |
| 115     | 61.2  | 50.1  | 75.1  |

Manual Integrations  
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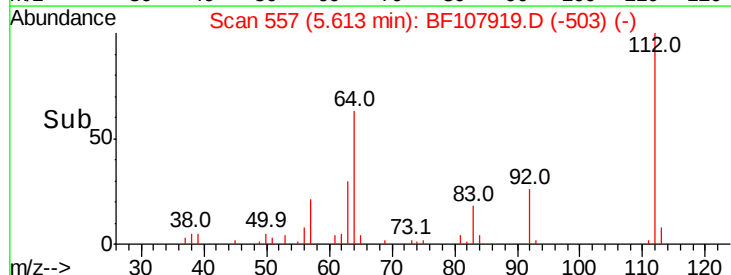
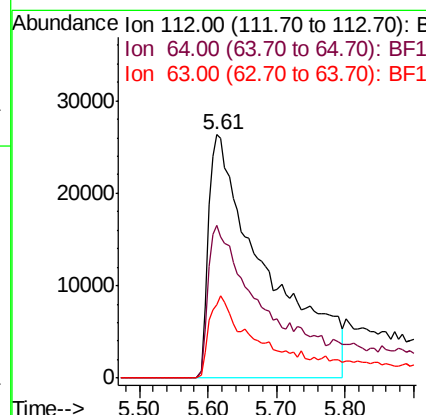
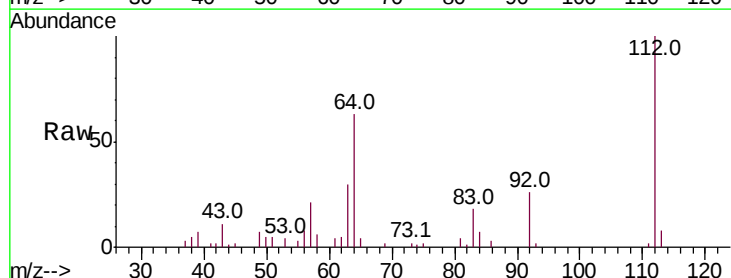
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8/3/2018 12:53:28 PM

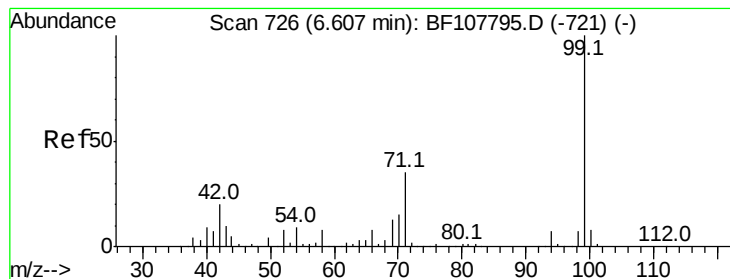


#5

2-Fluorophenol  
Concen: 22.195 ng  
RT: 5.61 min Scan# 557  
Delta R.T. 0.02 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.7  | 47.9  | 71.9  |
| 63      | 30.4  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 35.817 ng

RT: 6.61 min Scan# 727

Delta R.T. 0.01 min

Lab File: BF107919.D

Acq: 2 Aug 2018 19:45

Instrument :

BNA\_F

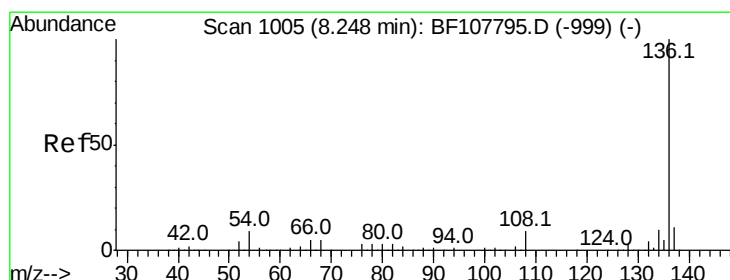
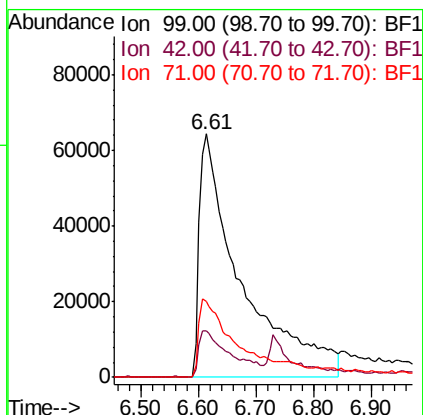
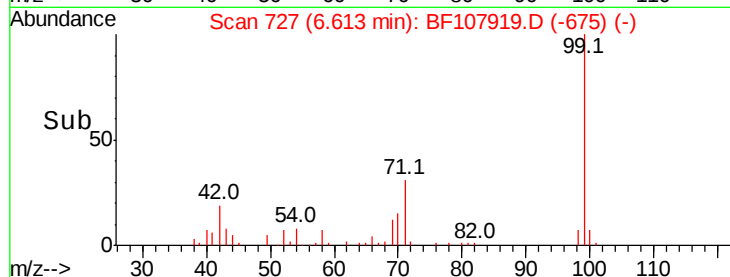
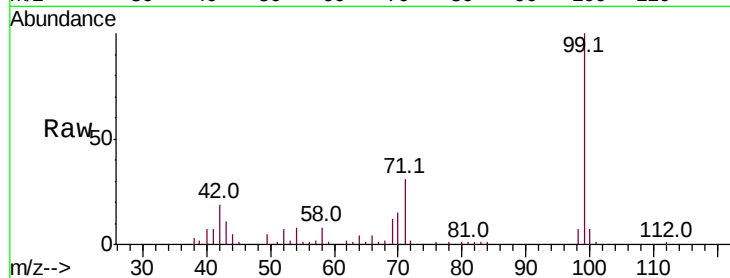
ClientSampleId :

TS-LINER-RO-135

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 326845 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.1  | 14.5  | 21.7   |
| 71        | 31.0  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

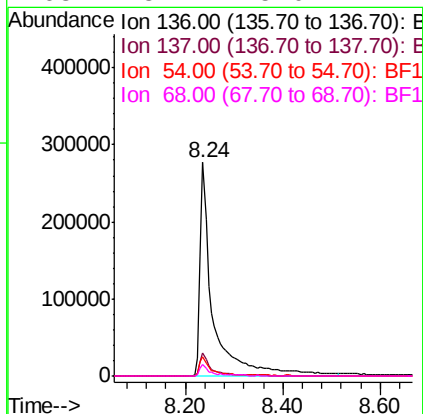
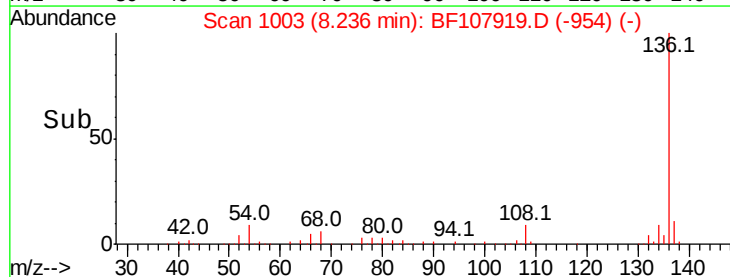
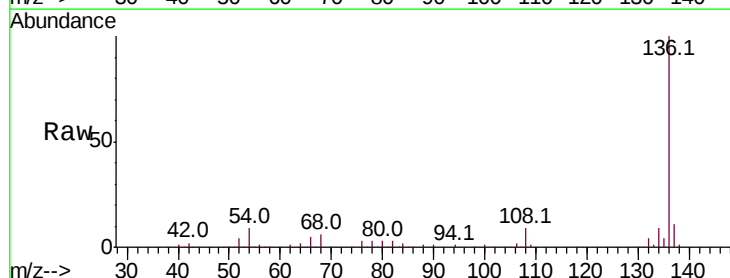
RT: 8.24 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF107919.D

Acq: 2 Aug 2018 19:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 511321 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 8.9   | 13.3   |
| 54        | 9.3   | 6.6   | 9.8    |
| 68        | 5.7   | 5.0   | 7.4    |





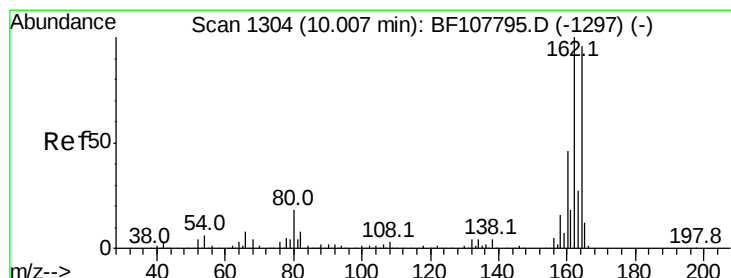
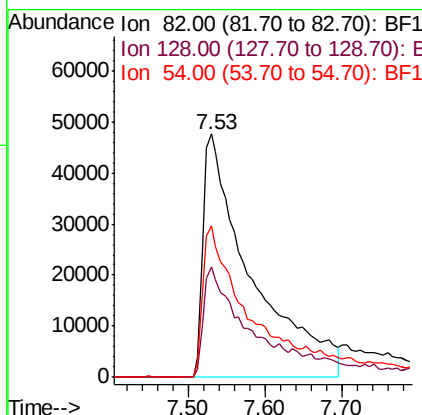
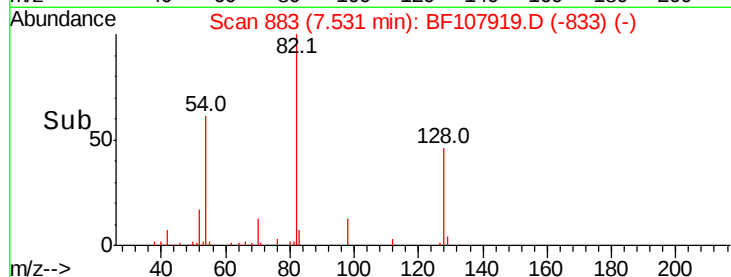
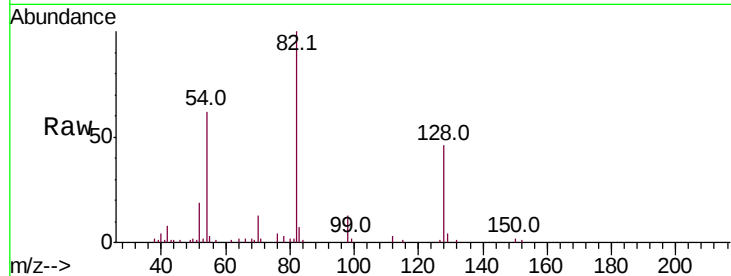
#23  
 Nitrobenzene-d5  
 Concen: 23.238 ng  
 RT: 7.53 min Scan# 883  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-LINER-RO-135

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.6  | 36.1  | 54.1  |
| 54      | 62.4  | 41.4  | 62.2# |

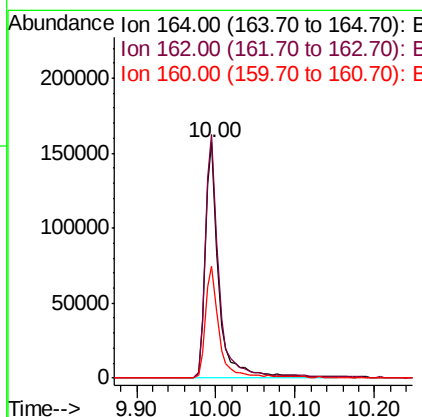
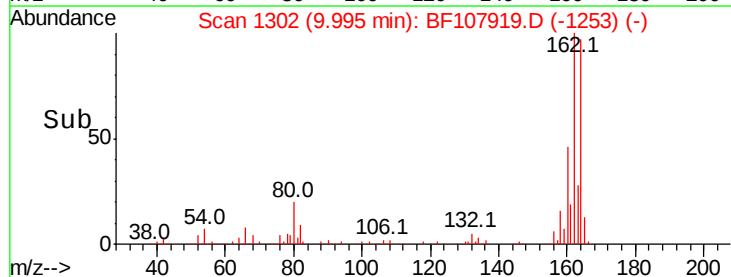
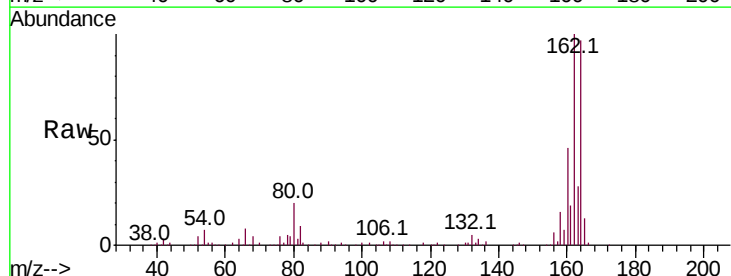
Manual Integrations  
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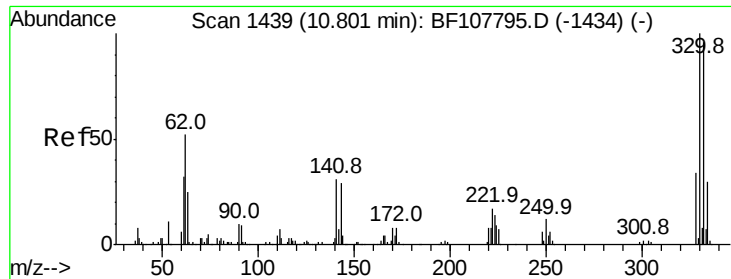
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.00 min Scan# 1302  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.4 | 86.1  | 129.1 |
| 160     | 47.3  | 38.3  | 57.5  |





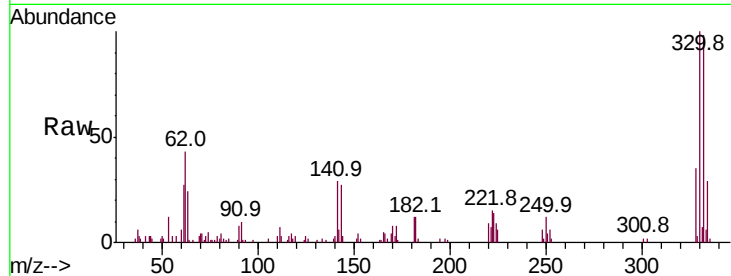
#41  
 2,4,6-Tribromophenol  
 Concen: 21.267 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-LINER-RO-135

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 92.3  | 77.0  | 115.6 |
| 141     | 28.1  | 29.9  | 44.9# |

Manual Integrations  
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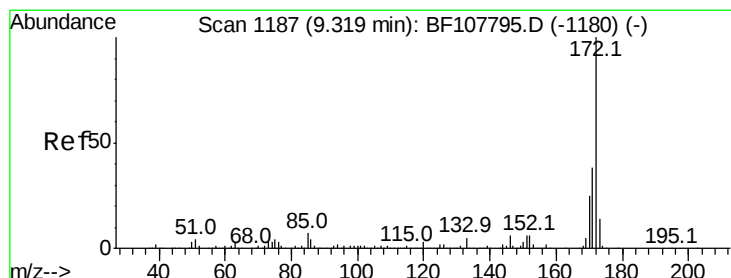
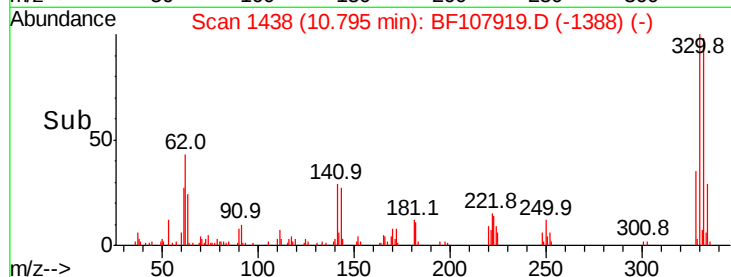
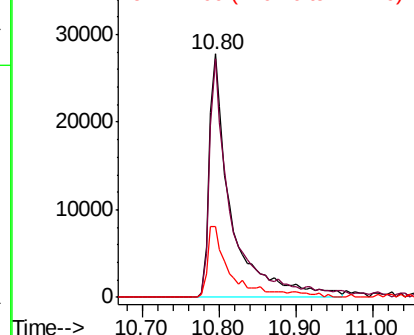


Abundance

Ion 329.80 (329.50 to 330.50): E

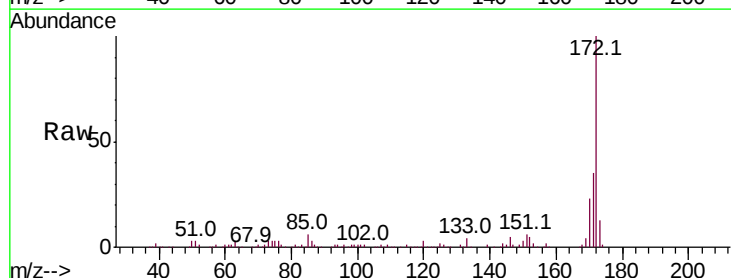
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 35.547 ng  
 RT: 9.31 min Scan# 1185  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 29.7  | 44.5  |
| 170     | 23.2  | 19.6  | 29.4  |

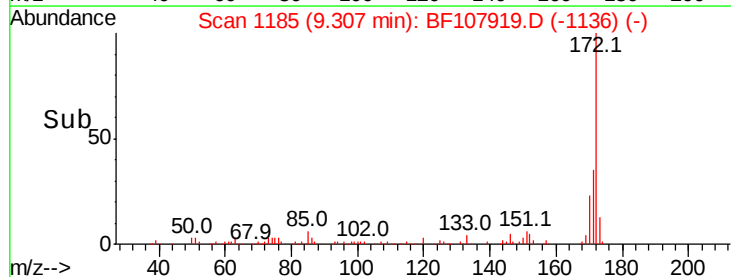
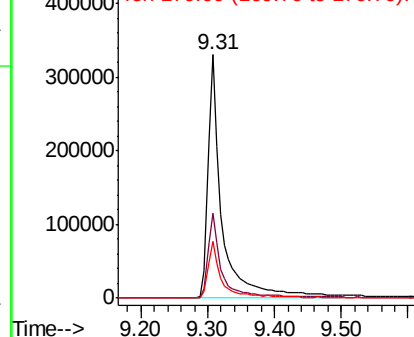


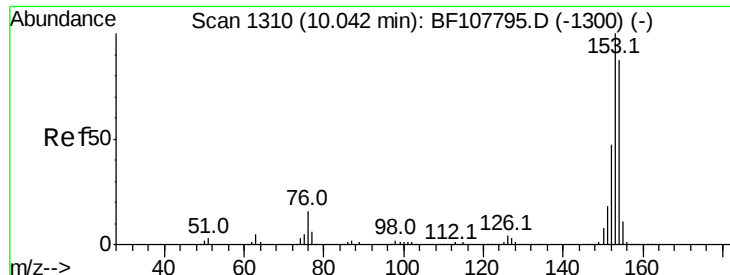
Abundance

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





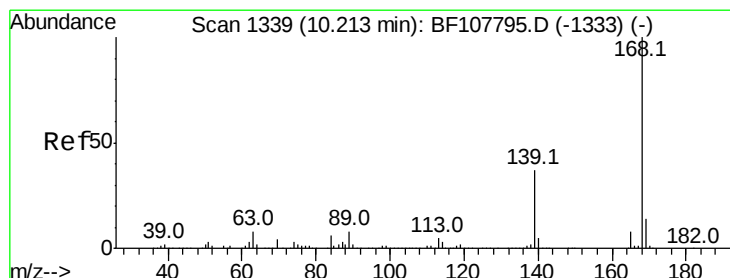
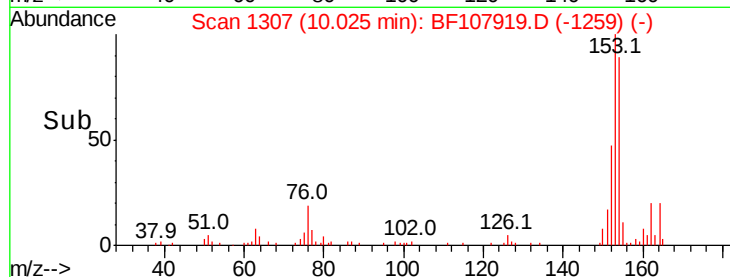
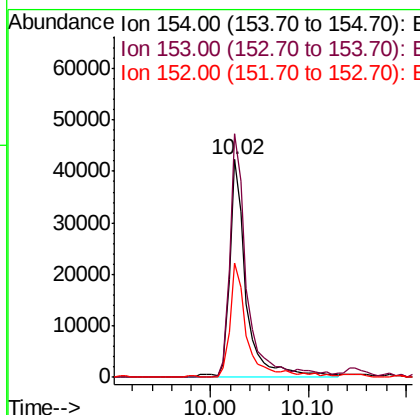
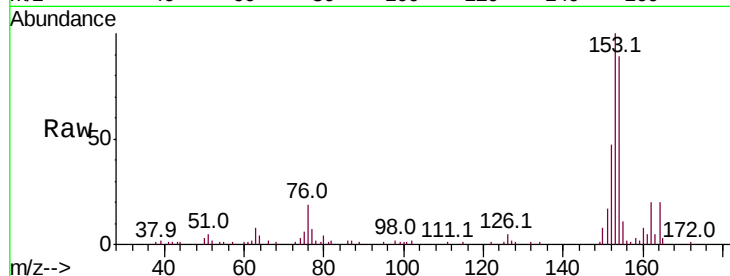
#51  
Acenaphthene  
Concen: 4.279 ng  
RT: 10.02 min Scan# 1307  
Delta R.T. -0.02 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

Instrument :  
BNA\_F  
ClientSampleId :  
TS-LINER-RO-135

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.0 | 91.2  | 136.8 |
| 152     | 52.4  | 43.8  | 65.8  |

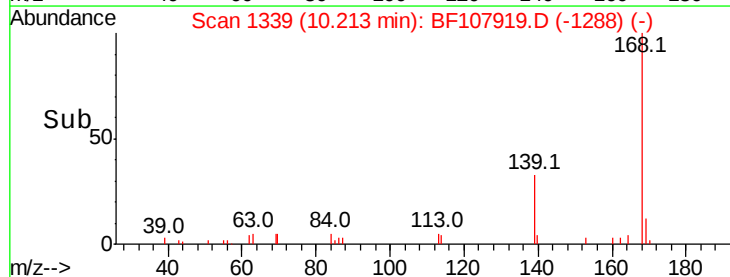
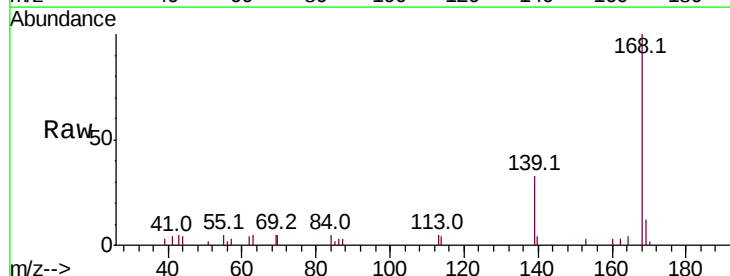
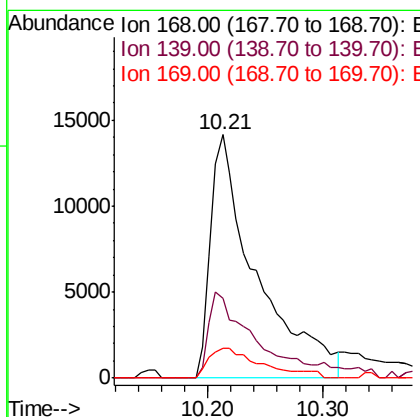
Manual Integrations  
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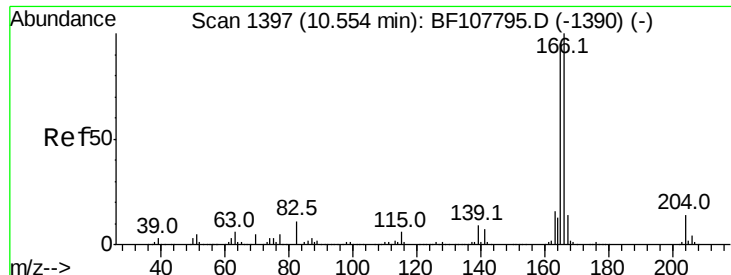
Sohil  
8/3/2018 12:53:28 PM



#54  
Dibenzofuran  
Concen: 2.150 ng  
RT: 10.21 min Scan# 1339  
Delta R.T. 0.00 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 32.9  | 30.1  | 45.1  |
| 169     | 12.4  | 10.9  | 16.3  |





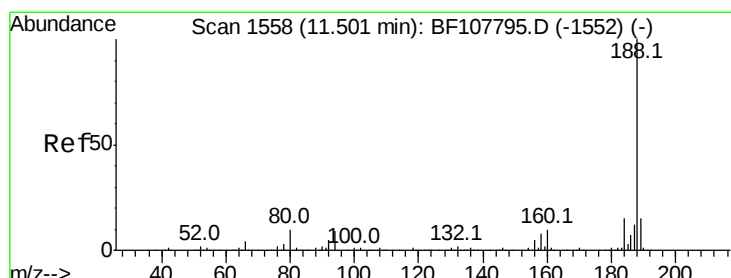
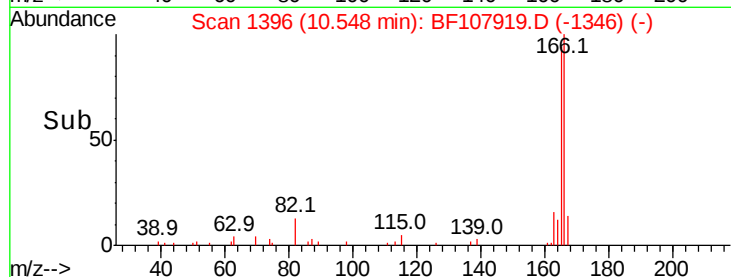
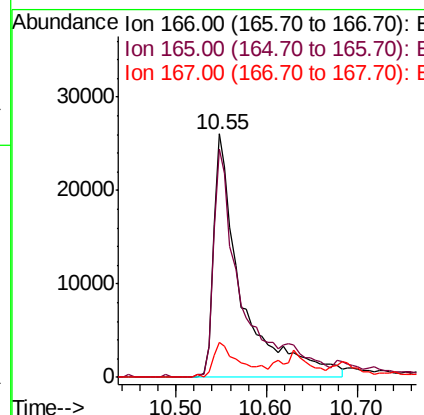
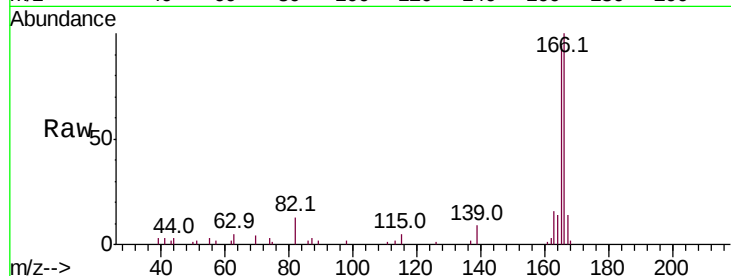
#57  
**Fluorene**  
 Concen: 3.970 ng  
 RT: 10.55 min Scan# 1396  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-LINER-RO-135

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 93.5  | 79.8  | 119.8 |
| 167     | 14.1  | 10.6  | 16.0  |

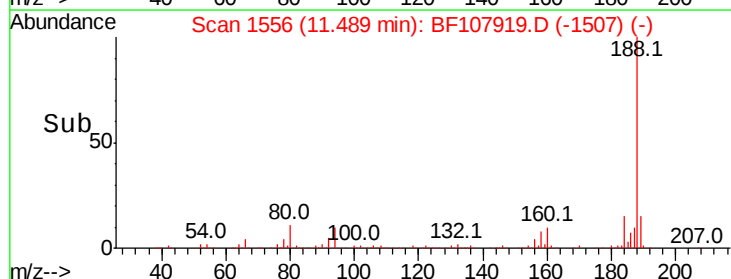
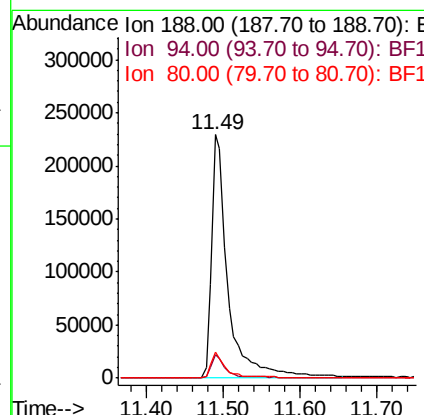
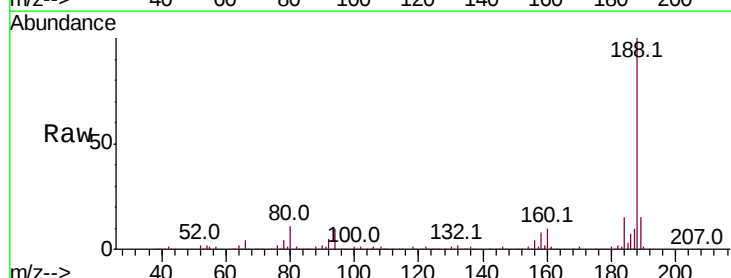
Manual Integrations  
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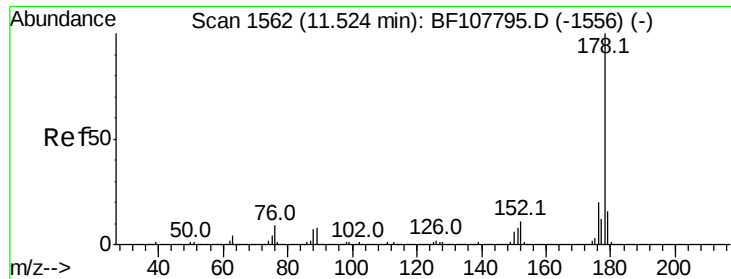
Sohil  
 8/3/2018 12:53:28 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.49 min Scan# 1556  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 8.5   | 12.7  |
| 80      | 10.6  | 9.2   | 13.8  |





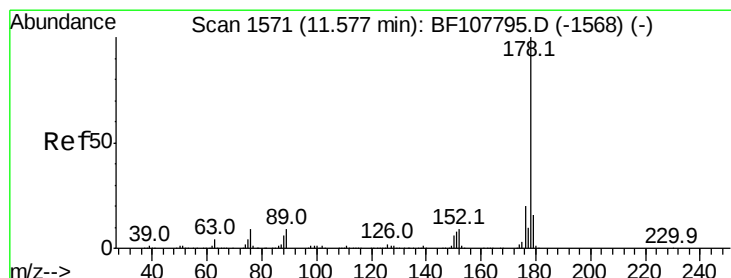
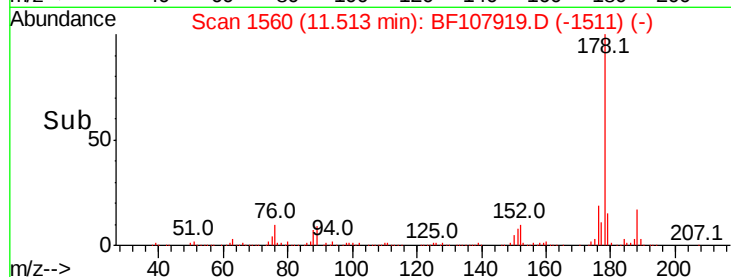
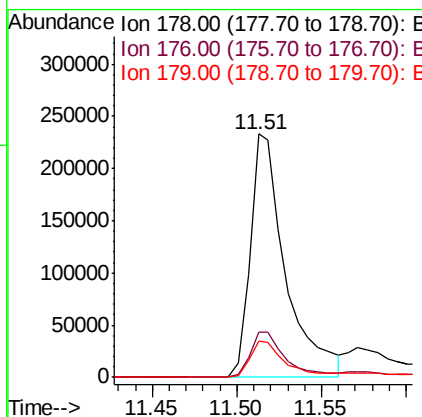
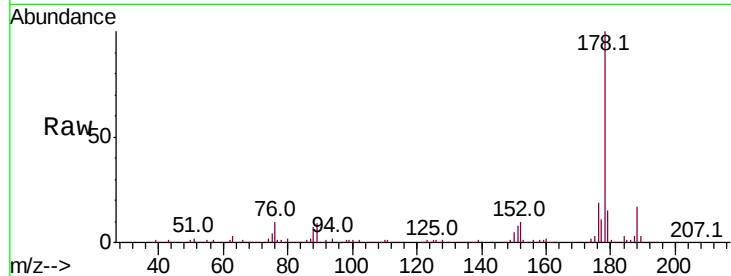
#70  
Phenanthrene  
Concen: 21.026 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

Instrument :  
BNA\_F  
ClientSampleId :  
TS-LINER-RO-135

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.8  | 23.8  |
| 179     | 14.7  | 13.0  | 19.6  |

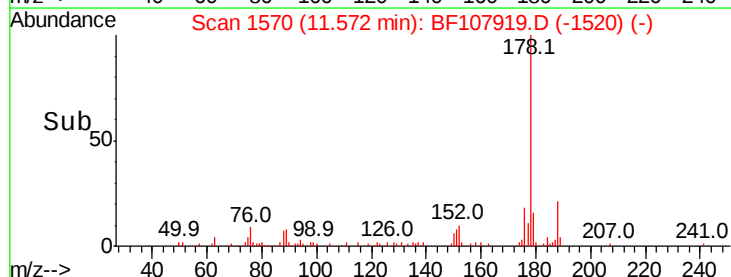
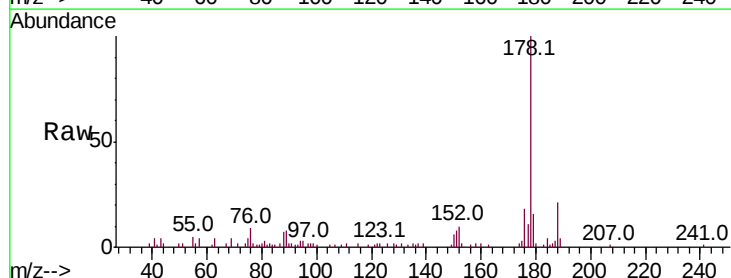
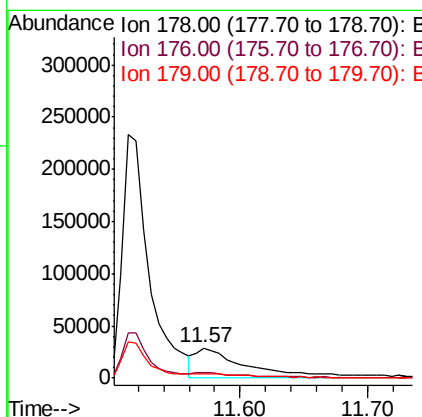
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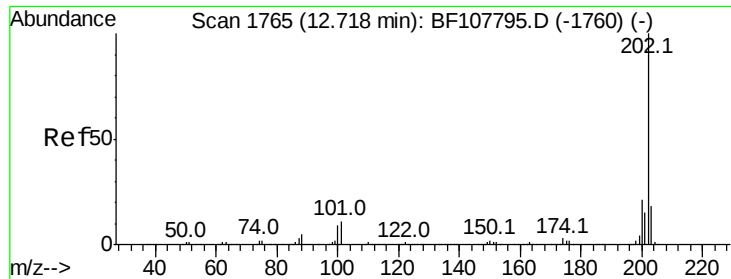
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#71  
Anthracene  
Concen: 4.308 ng m  
RT: 11.57 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.9  | 15.4  | 23.2  |
| 179     | 16.1  | 12.6  | 19.0  |





#74

Fluoranthene

Concen: 11.524 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF107919.D

Acq: 2 Aug 2018 19:45

Instrument :

BNA\_F

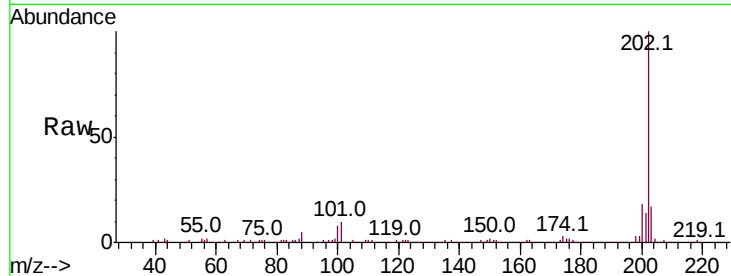
ClientSampleId :

TS-LINER-RO-135

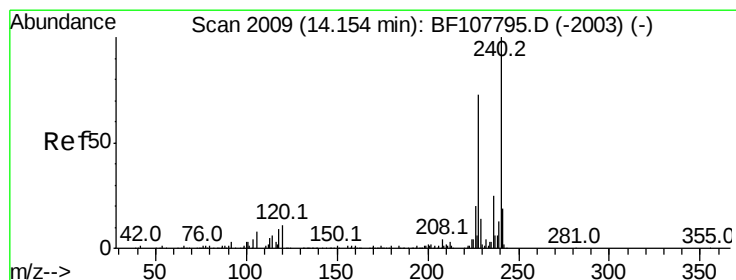
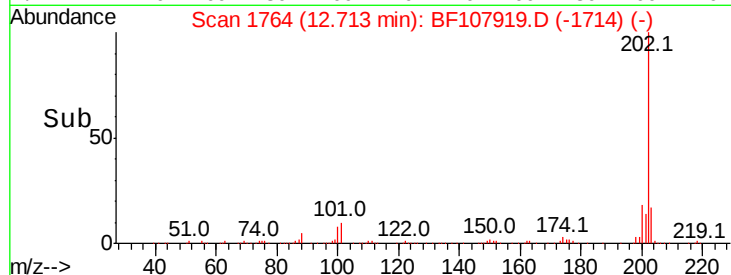
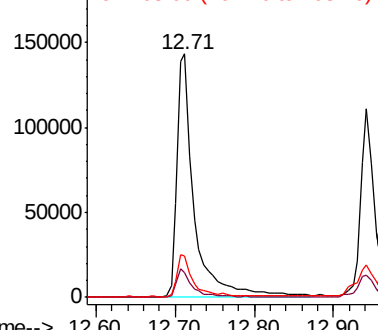
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 218622 |       |       |
| 101     | 10.0  | 0.0    | 34.1  |       |
| 203     | 16.7  | 0.0    | 38.1  |       |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

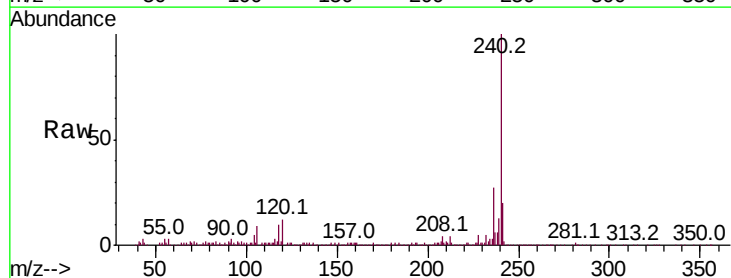
RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

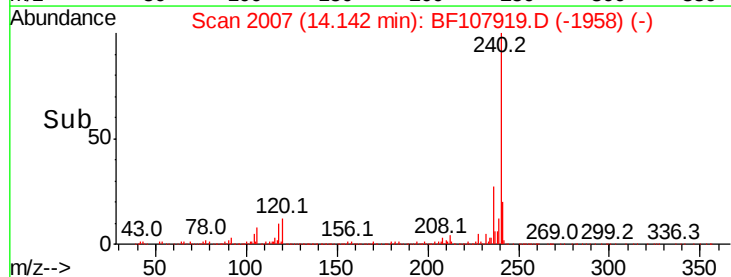
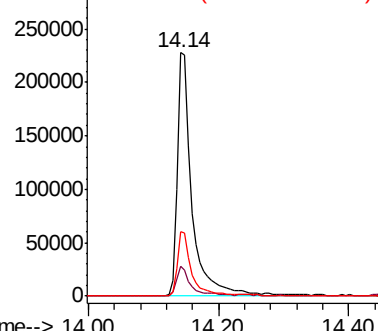
Lab File: BF107919.D

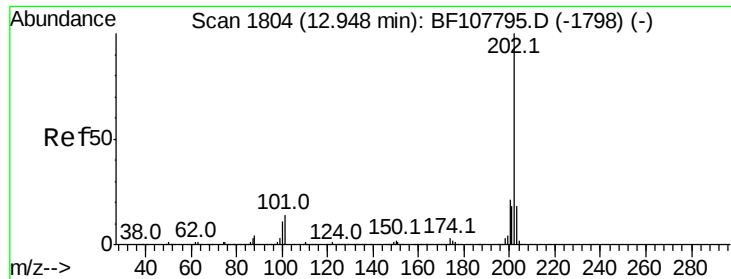
Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 359038 |       |       |
| 120     | 12.2  | 9.5    | 14.3  |       |
| 236     | 26.6  | 20.7   | 31.1  |       |



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





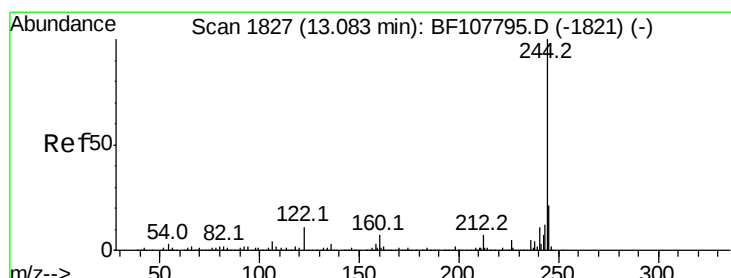
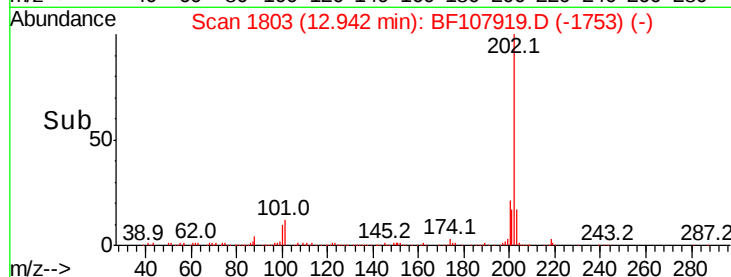
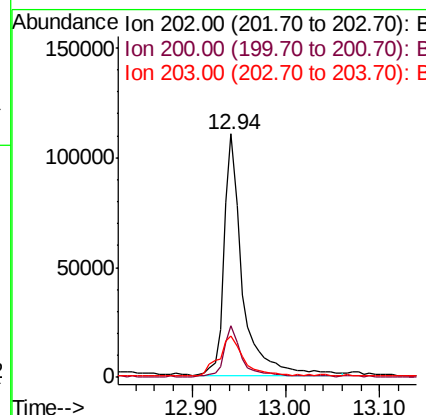
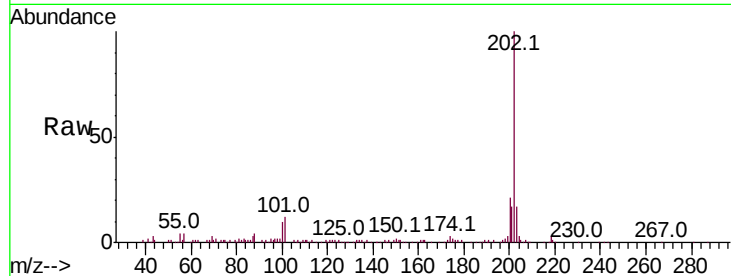
#77  
Pvrene  
Concen: 5.772 ng  
RT: 12.94 min Scan# 1803  
Delta R.T. -0.01 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

Instrument :  
BNA\_F  
ClientSampleId :  
TS-LINER-RO-135

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.1  | 17.4       | 26.2  |
| 203     | 17.1  | 14.3       | 21.5  |

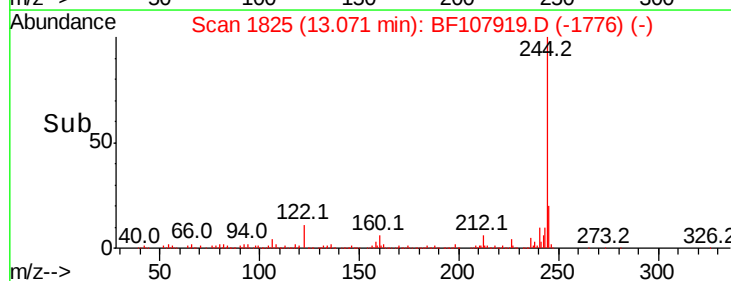
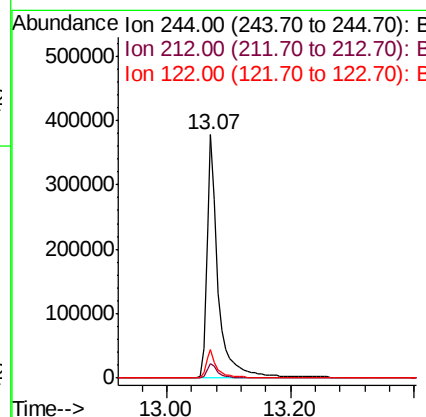
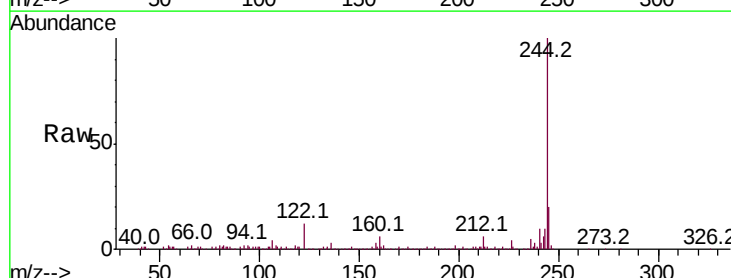
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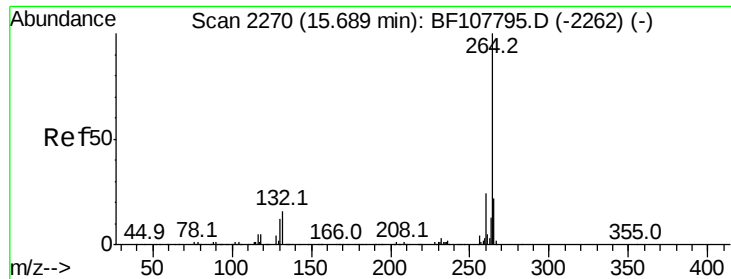
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#78  
Terphenyl-d14  
Concen: 29.631 ng  
RT: 13.07 min Scan# 1825  
Delta R.T. -0.01 min  
Lab File: BF107919.D  
Acq: 2 Aug 2018 19:45

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.0   | 5.4        | 8.0   |
| 122     | 11.6  | 11.0       | 16.4  |





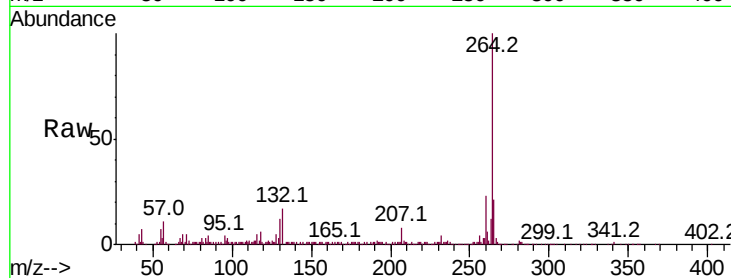
#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.68 min Scan# 2268  
 Delta R.T. -0.01 min  
 Lab File: BF107919.D  
 Acq: 2 Aug 2018 19:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-LINER-RO-135

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 278575 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.4  | 19.2  | 28.8   |
| 265       | 21.2  | 17.5  | 26.3   |

Manual Integrations  
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Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

