

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\  
 Data File : BF116534.D  
 Acq On : 25 Aug 2019 16:14  
 Operator : HP/JU  
 Sample : K4475-10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-2-C

Manual Integrations  
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 8/29/2019 7:53:14 AM

Quant Time: Aug 26 07:28:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 13:38:31 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.89  | 152  | 147238   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.16  | 136  | 554741   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.92  | 164  | 256932   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.40 | 188  | 350326   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.03 | 240  | 213734   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.50 | 264  | 235499   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.51  | 112  | 691139   | 68.59 | ng    | 0.01     |
| 7) Phenol-d6                | 6.51  | 99   | 913440   | 73.93 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 573968   | 56.61 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.70 | 330  | 195246   | 88.50 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.24  | 172  | 1171345  | 73.42 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.99 | 244  | 1057034  | 92.38 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.63  | 163  | 126595   | 7.062 | ng    | 99       |
| 71) Phenanthrene            | 11.42 | 178  | 55781    | 2.923 | ng    | 94       |
| 75) Fluoranthene            | 12.61 | 202  | 100100   | 5.073 | ng    | 91       |
| 78) Pyrene                  | 12.84 | 202  | 89907    | 5.260 | ng    | 95       |
| 81) Benzo(a)anthracene      | 14.02 | 228  | 47489    | 3.431 | ng    | # 91     |
| 83) Chrysene                | 14.06 | 228  | 42612    | 3.037 | ng    | # 94     |
| 86) Indeno(1,2,3-cd)pyrene  | 16.96 | 276  | 35083    | 2.919 | ng    | # 90     |
| 88) Benzo(b)fluoranthene    | 15.07 | 252  | 62389m   | 4.288 | ng    |          |
| 90) Benzo(a)pyrene          | 15.43 | 252  | 42738    | 3.324 | ng    | # 93     |
| 92) Benzo(g,h,i)perylene    | 17.40 | 276  | 32946    | 3.271 | ng    | 98       |

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

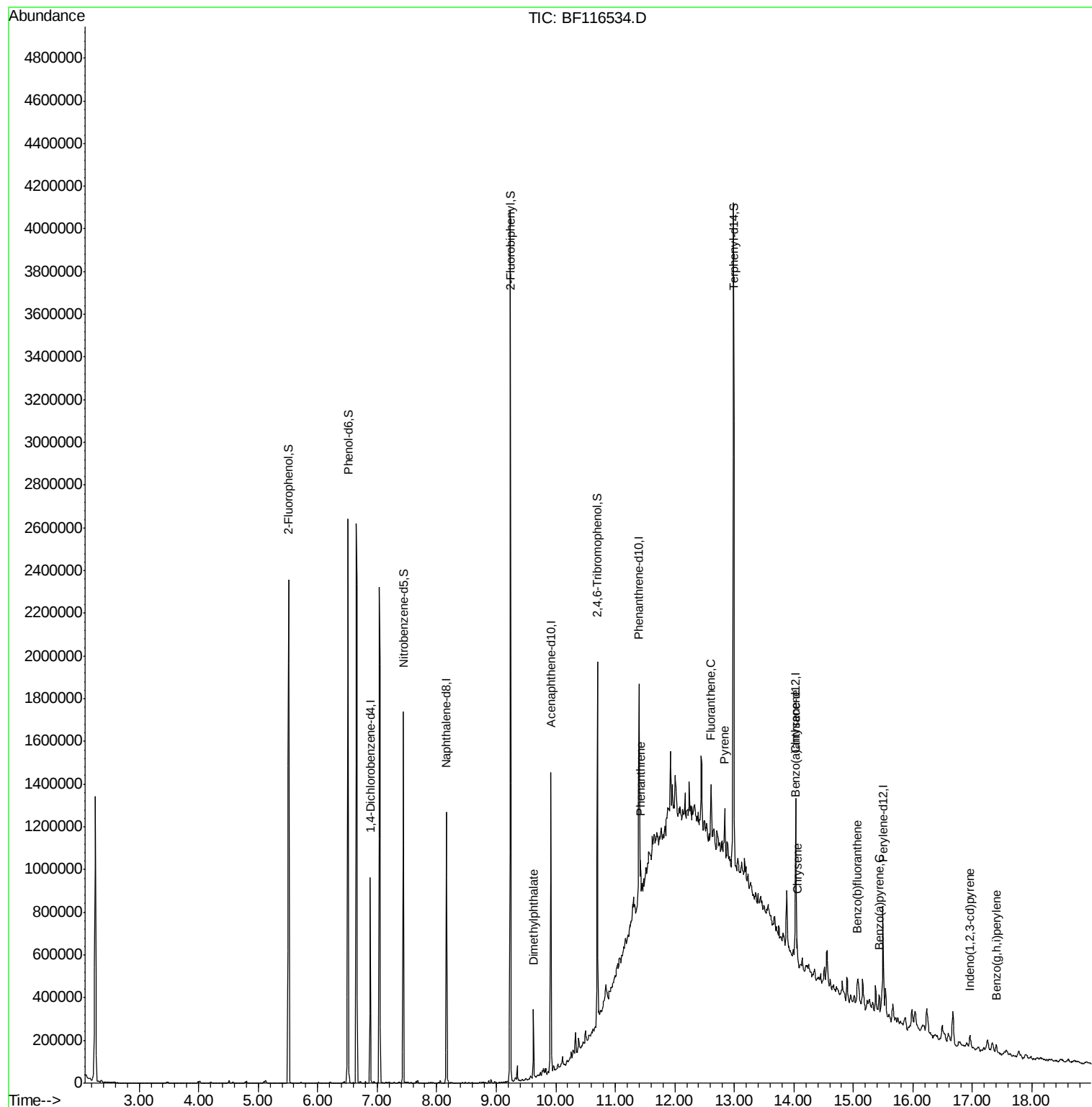
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\  
Data File : BF116534.D  
Acq On : 25 Aug 2019 16:14  
Operator : HP/JU  
Sample : K4475-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

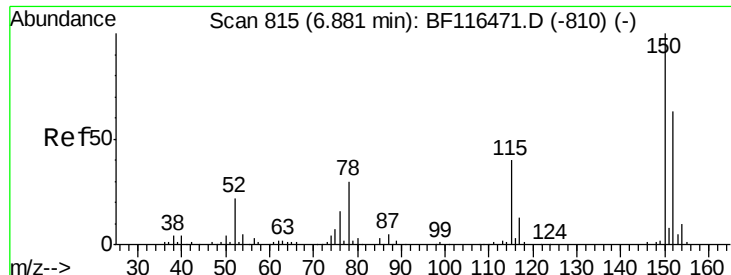
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Aug 26 07:28:49 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 23 13:38:31 2019  
Response via : Initial Calibration





#1

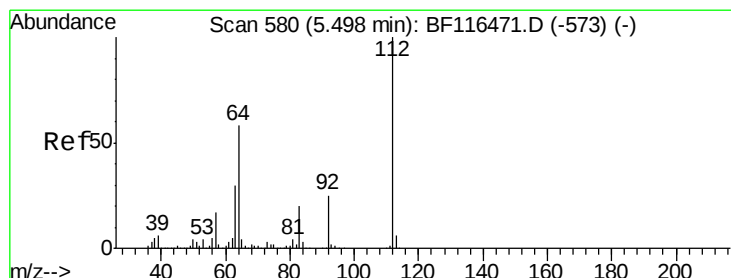
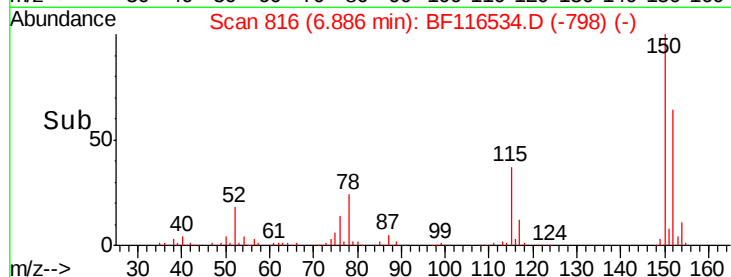
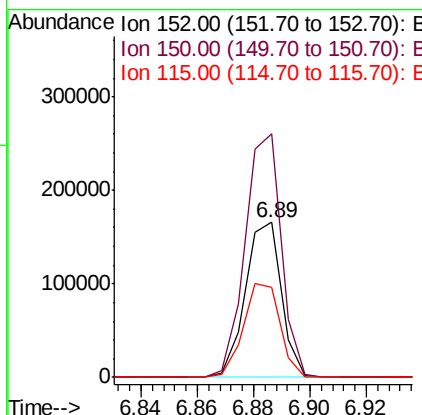
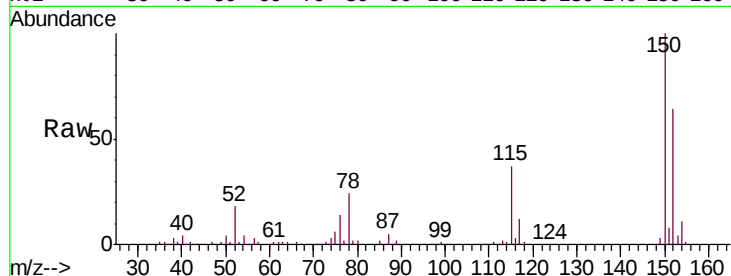
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 816  
Delta R.T. 0.01 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

Instrument :  
BNA\_F  
ClientSampleId :  
T1-2-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.3 | 126.7 | 190.1 |
| 115     | 58.5  | 50.9  | 76.3  |

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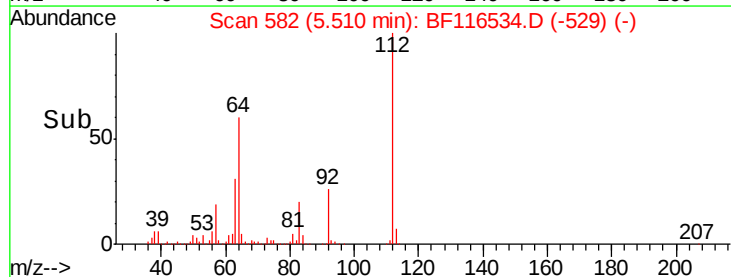
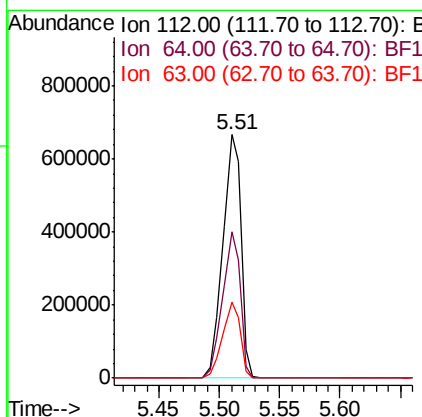
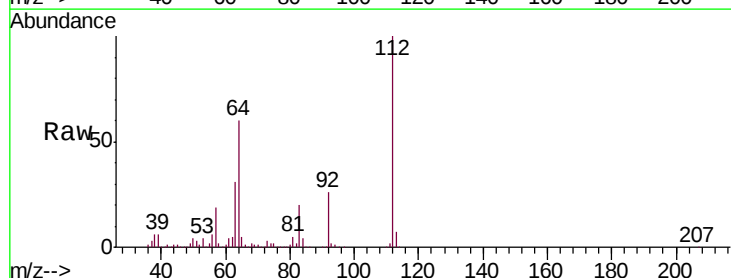
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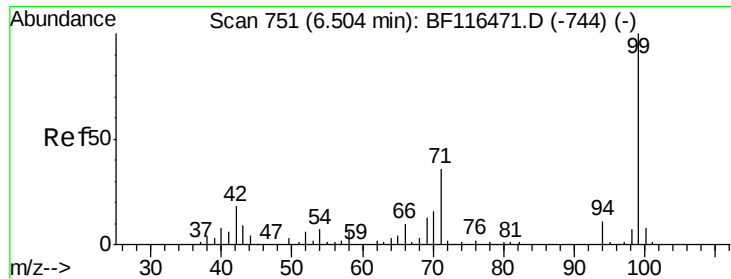


#5

2-Fluorophenol  
Concen: 68.587 ng  
RT: 5.51 min Scan# 582  
Delta R.T. 0.01 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.0  | 46.3  | 69.5  |
| 63      | 31.4  | 24.2  | 36.4  |





#7

Phenol-d6

Concen: 73.928 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116534.D

Acq: 25 Aug 2019 16:14

Instrument :

BNA\_F

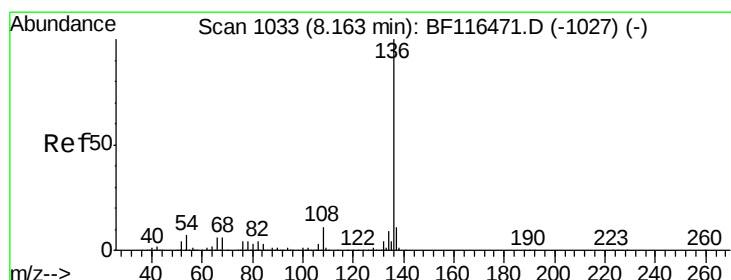
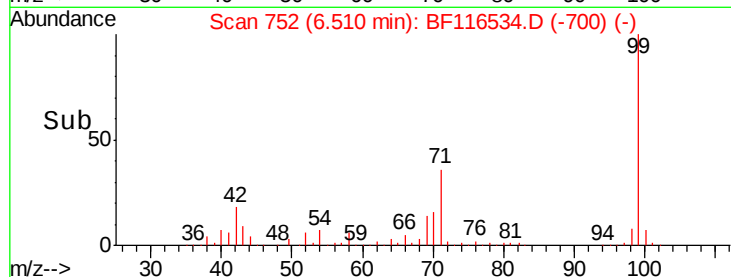
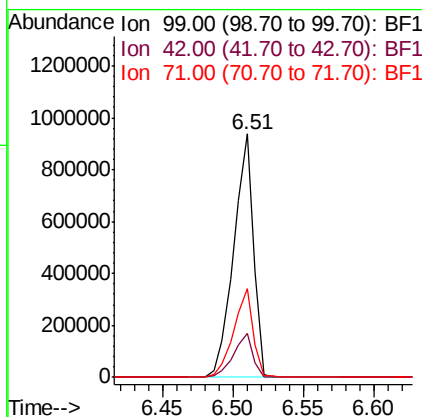
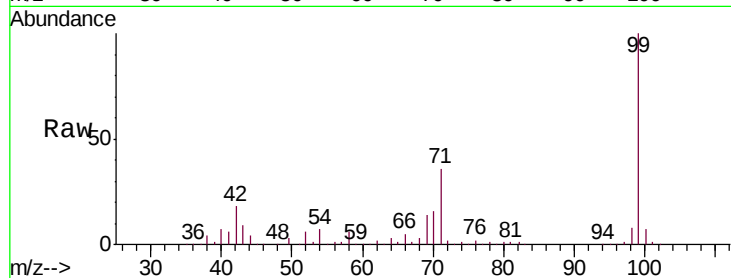
ClientSampleId :

T1-2-C

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 913440 |       |       |
| 42      | 18.2 | 14.6  | 21.8   |       |       |
| 71      | 36.5 | 28.5  | 42.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

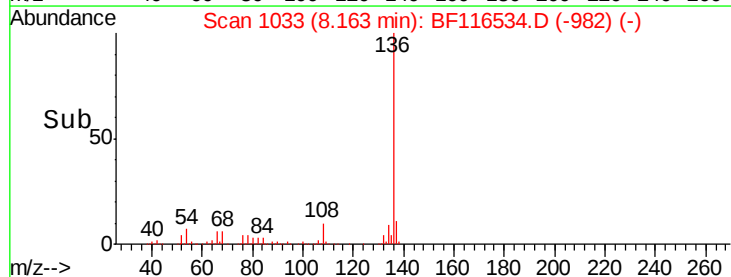
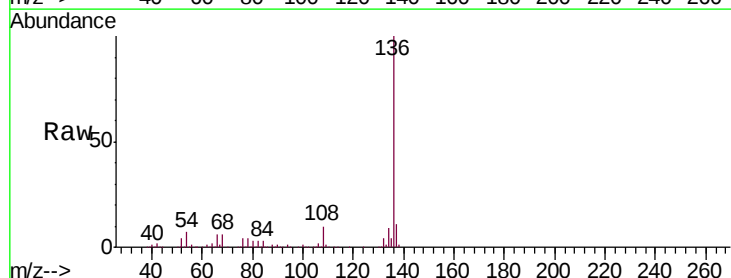
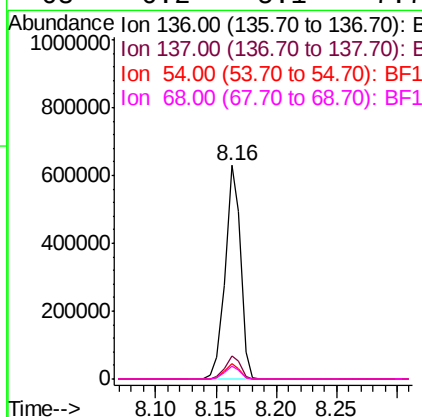
RT: 8.16 min Scan# 1033

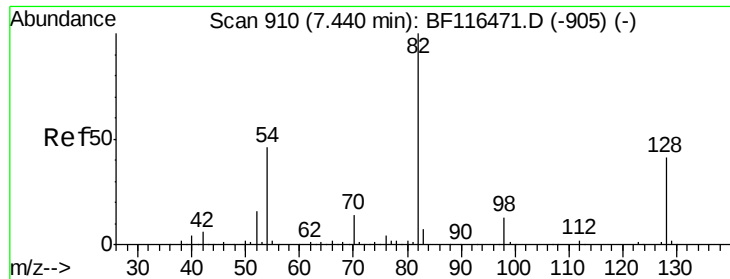
Delta R.T. -0.00 min

Lab File: BF116534.D

Acq: 25 Aug 2019 16:14

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 554741 |       |       |
| 137     | 10.8 | 9.0   | 13.4   |       |       |
| 54      | 7.1  | 5.8   | 8.6    |       |       |
| 68      | 6.2  | 5.1   | 7.7    |       |       |





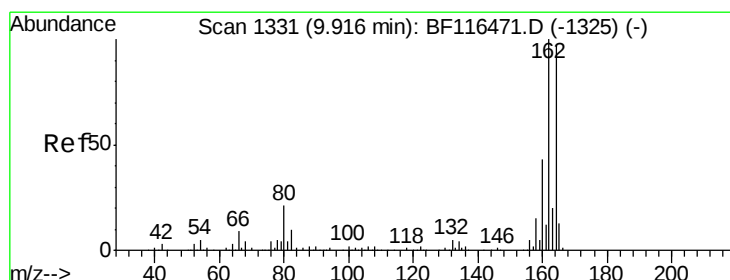
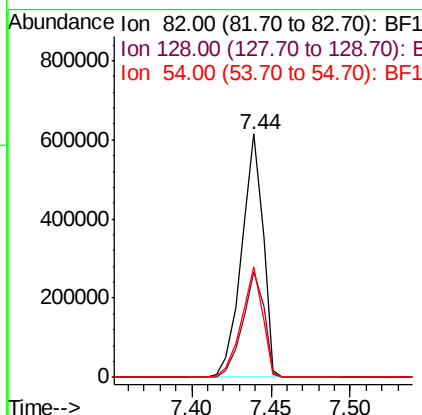
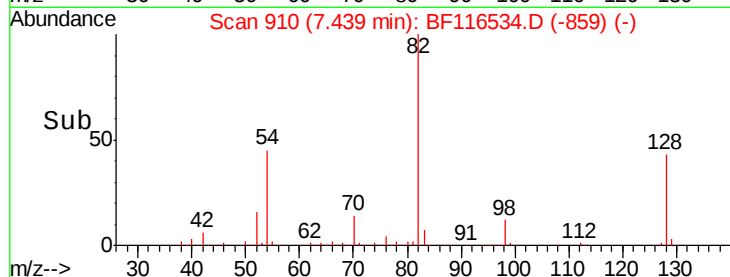
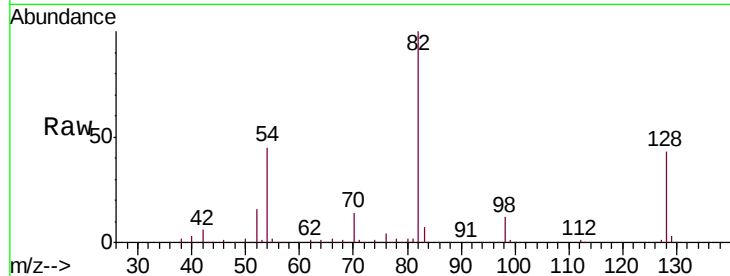
#23  
Nitrobenzene-d5  
Concen: 56.606 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.00 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

Instrument :  
BNA\_F  
ClientSampled :  
T1-2-C

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.1  | 32.2 | 48.4  |       |
| 54      | 45.2  | 36.5 | 54.7  |       |

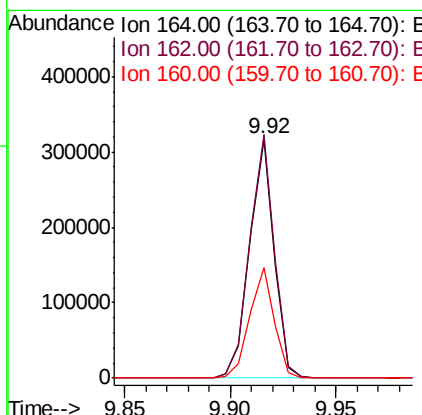
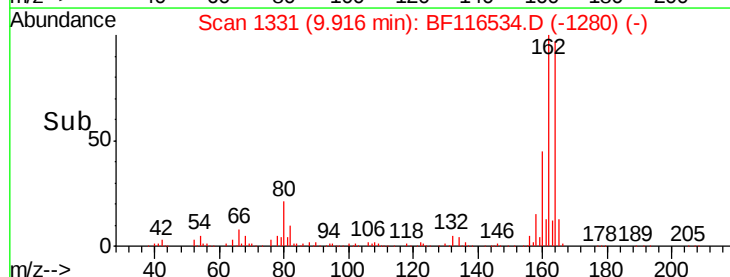
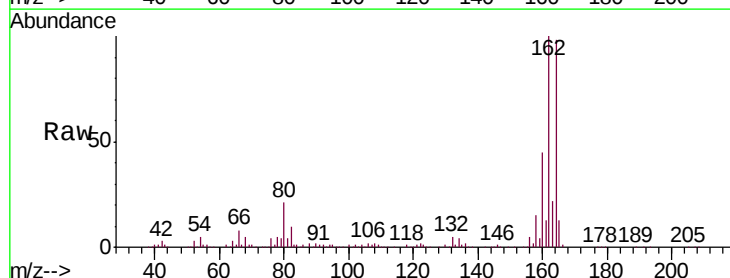
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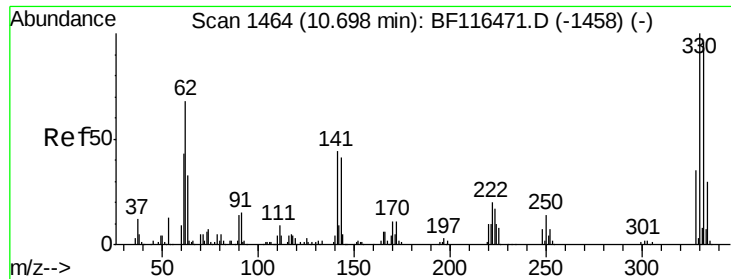
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.00 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.8 | 82.6 | 123.8 |       |
| 160     | 46.1  | 35.8 | 53.8  |       |





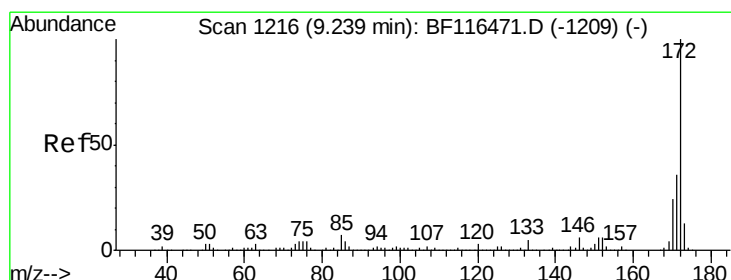
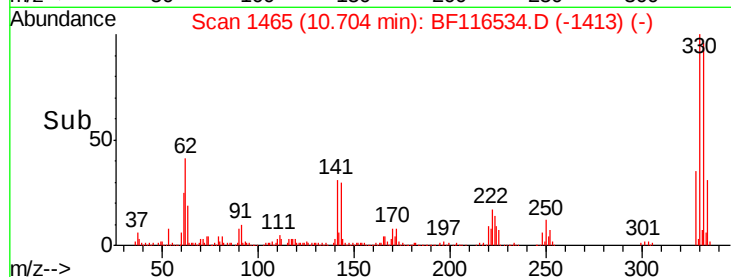
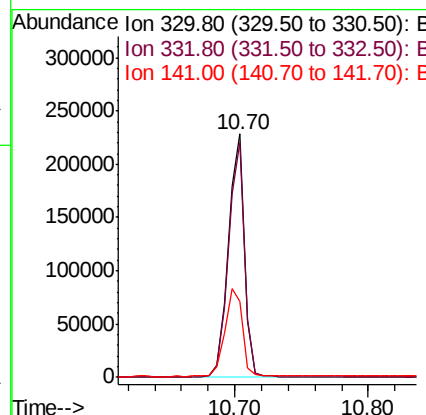
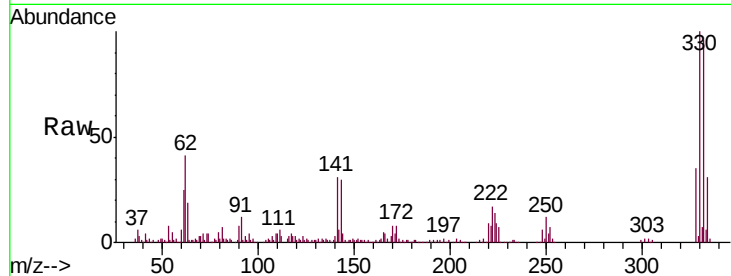
#42  
 2,4,6-Tribromophenol  
 Concen: 88.499 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. 0.01 min  
 Lab File: BF116534.D  
 Acq: 25 Aug 2019 16:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-2-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 77.2  | 115.8 |
| 141     | 39.0  | 33.3  | 49.9  |

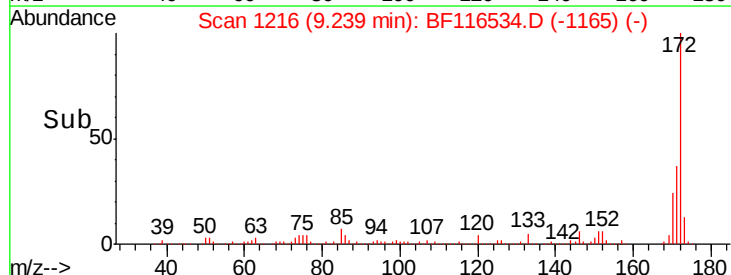
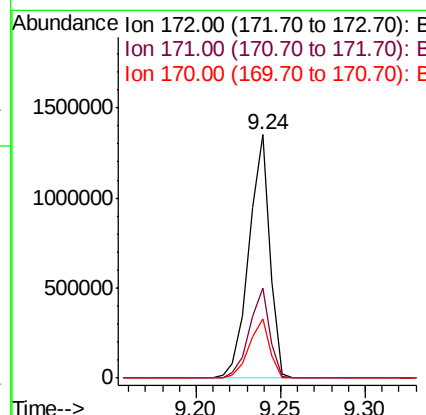
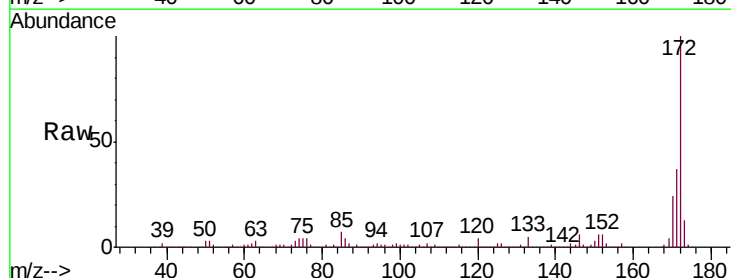
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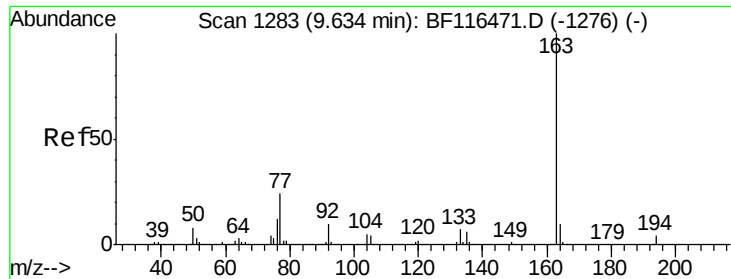
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#45  
 2-Fluorobiphenyl  
 Concen: 73.418 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.00 min  
 Lab File: BF116534.D  
 Acq: 25 Aug 2019 16:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.0  | 28.9  | 43.3  |
| 170     | 24.2  | 19.4  | 29.0  |





#50

Dimethylphthalate

Concen: 7.062 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF116534.D

Acq: 25 Aug 2019 16:14

Instrument :

BNA\_F

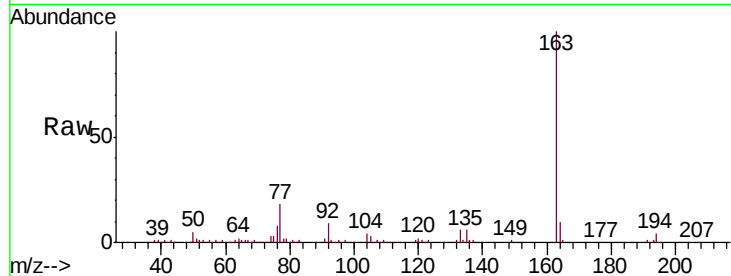
ClientSampleId :

T1-2-C

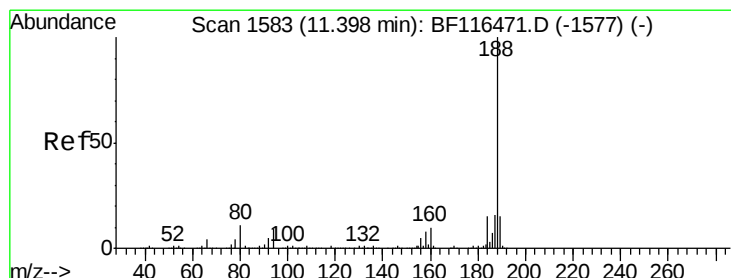
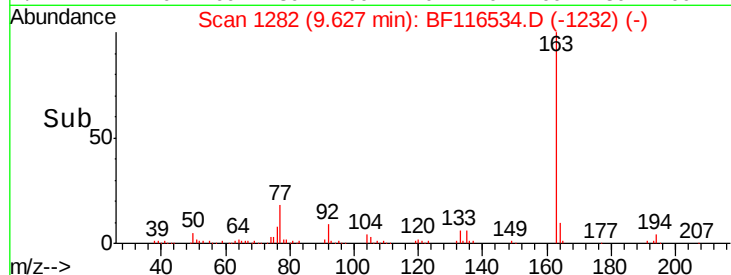
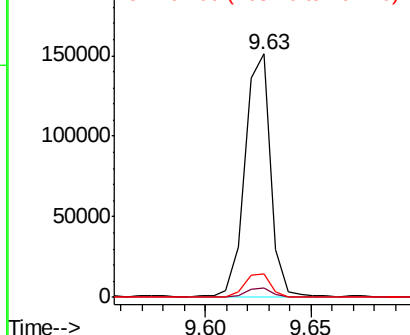
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 126595 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.7   | 2.9   | 4.3    |
| 164       | 9.8   | 8.2   | 12.2   |

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Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

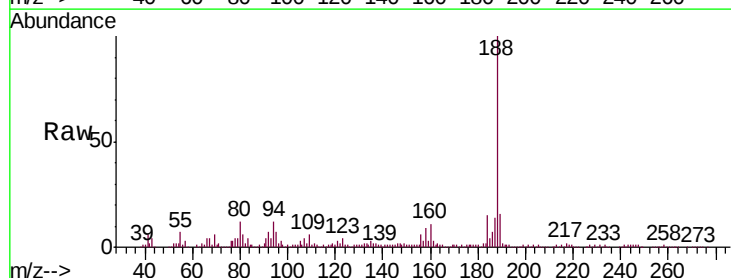
RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

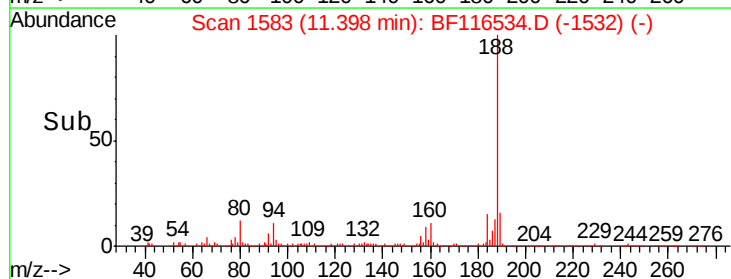
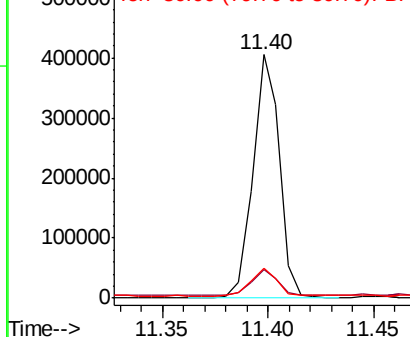
Lab File: BF116534.D

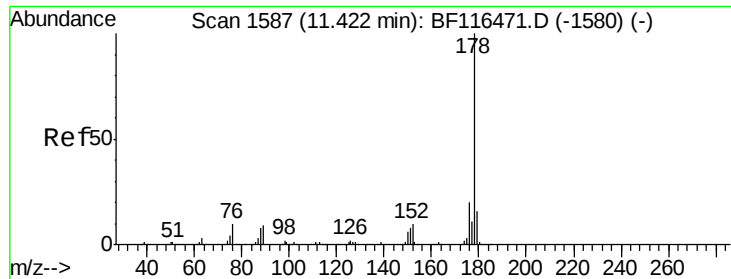
Acq: 25 Aug 2019 16:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 350326 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.9  | 7.4   | 11.2#  |
| 80        | 12.2  | 8.6   | 12.8   |



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





#71

Phenanthrene

Concen: 2.923 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BF116534.D

Acq: 25 Aug 2019 16:14

Instrument :

BNA\_F

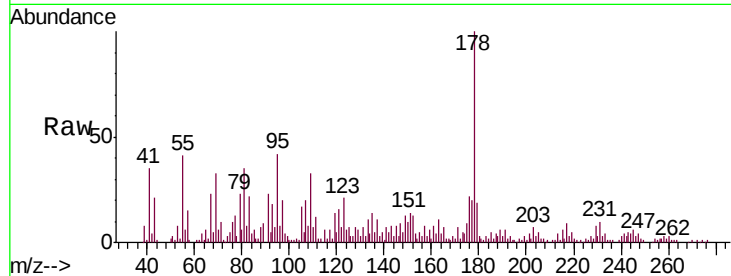
ClientSampled :

T1-2-C

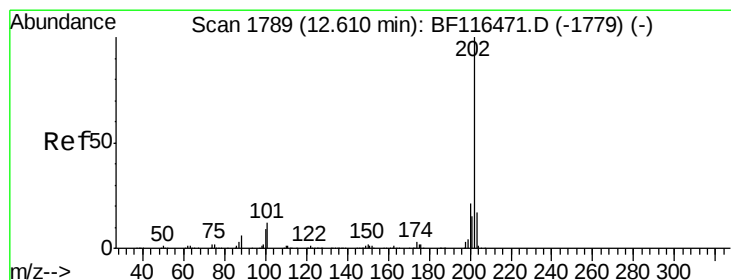
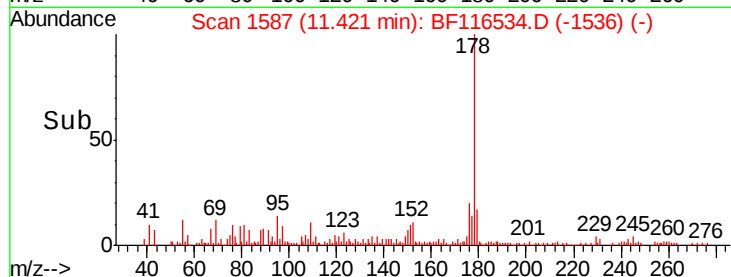
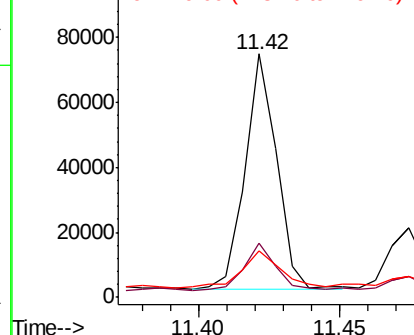
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 55781 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 22.3  | 15.8  | 23.6  |
| 179       | 19.0  | 12.8  | 19.2  |

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 5.073 ng

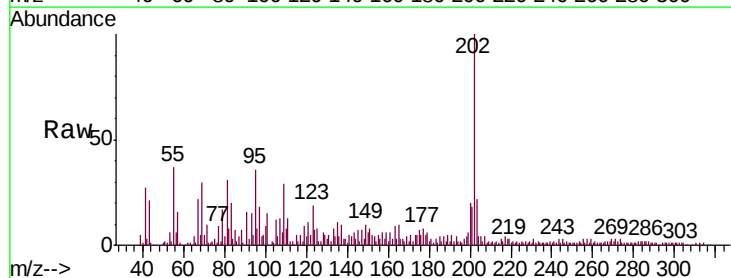
RT: 12.61 min Scan# 1789

Delta R.T. -0.00 min

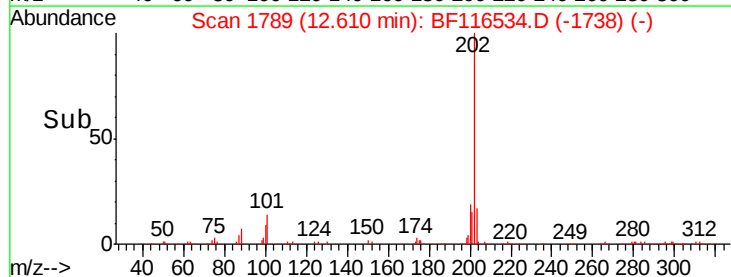
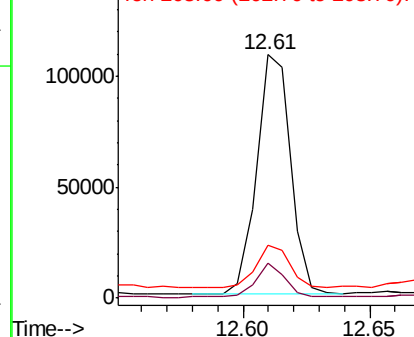
Lab File: BF116534.D

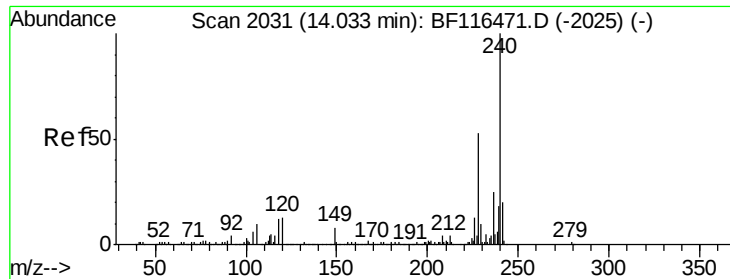
Acq: 25 Aug 2019 16:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 100100 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 14.5  | 0.0   | 31.5   |
| 203       | 21.8  | 0.0   | 37.5   |



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





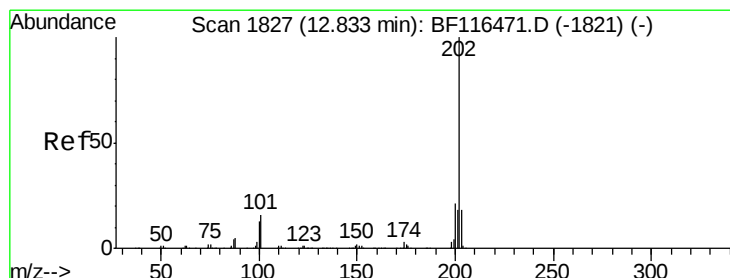
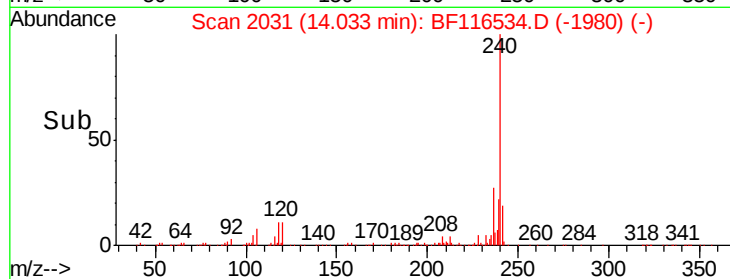
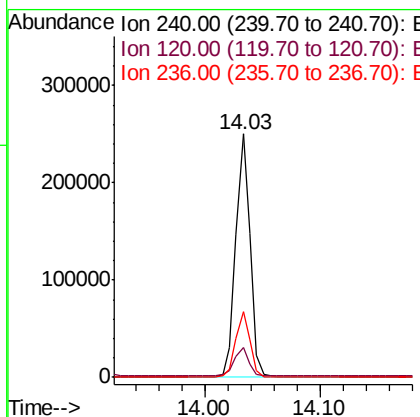
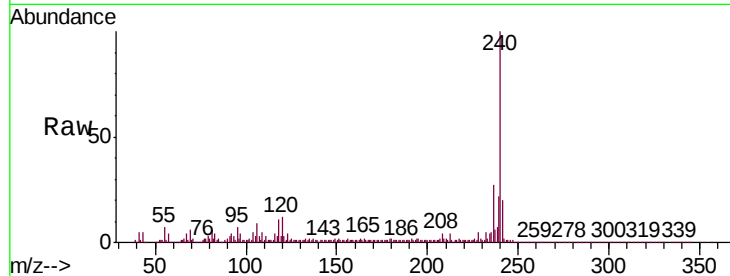
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.00 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

Instrument :  
BNA\_F  
ClientSampleId :  
T1-2-C

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 213734 |       |       |
| 120     | 12.5  | 10.5   | 15.7  |       |
| 236     | 26.9  | 20.2   | 30.2  |       |

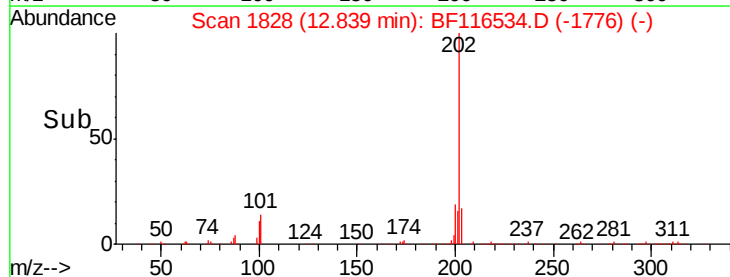
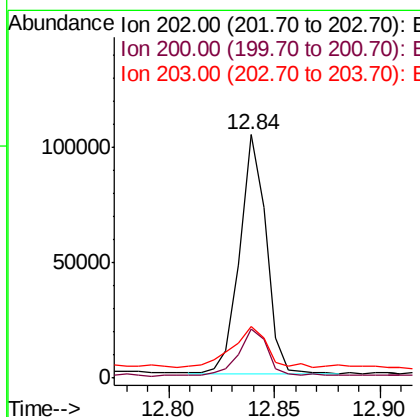
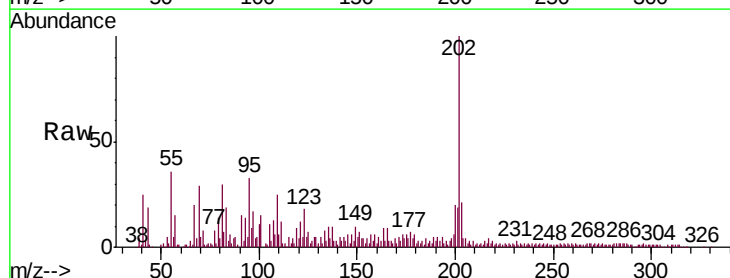
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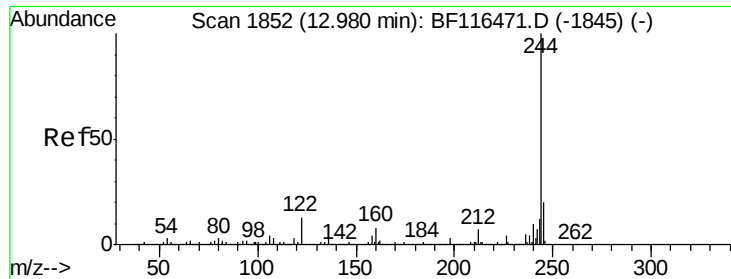
mohammad  
8/29/2019 7:53:14 AM



#78  
Pyrene  
Concen: 5.260 ng  
RT: 12.84 min Scan# 1828  
Delta R.T. 0.01 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 89907 |       |       |
| 200     | 20.1  | 17.0  | 25.4  |       |
| 203     | 21.1  | 14.2  | 21.4  |       |





#79  
 Terphenyl-d14  
 Concen: 92.378 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. 0.01 min  
 Lab File: BF116534.D  
 Acq: 25 Aug 2019 16:14

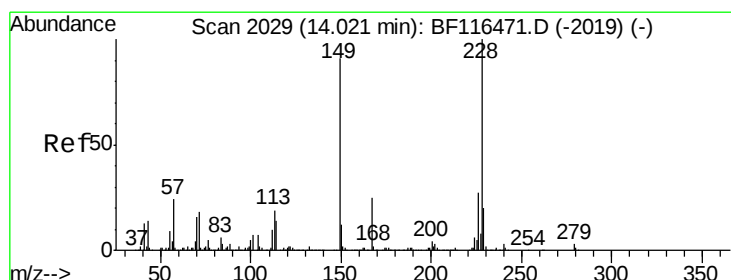
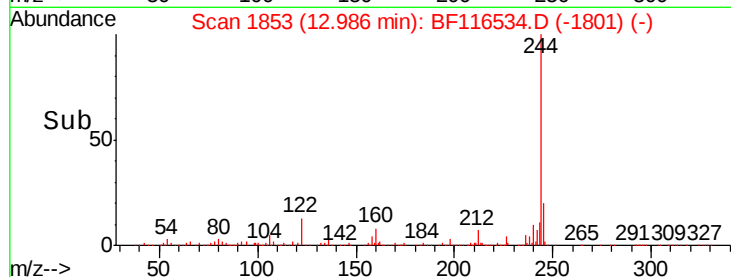
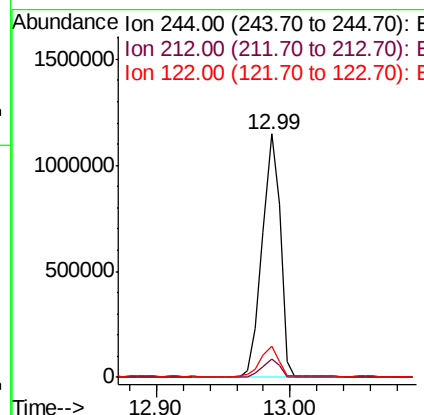
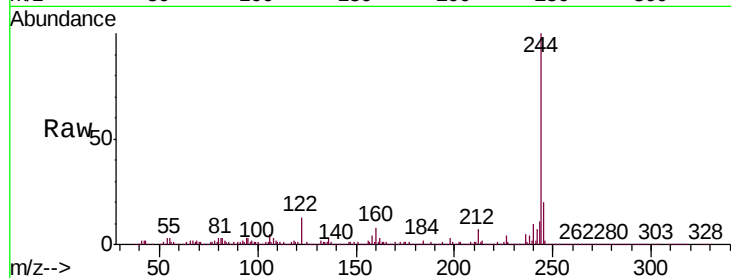
Instrument :  
 BNA\_F  
 ClientSampleId :  
 T1-2-C

Tot Ion:244 Resp: 1057034  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.4   | 5.7   | 8.5   |
| 122 | 13.0  | 10.2  | 15.4  |

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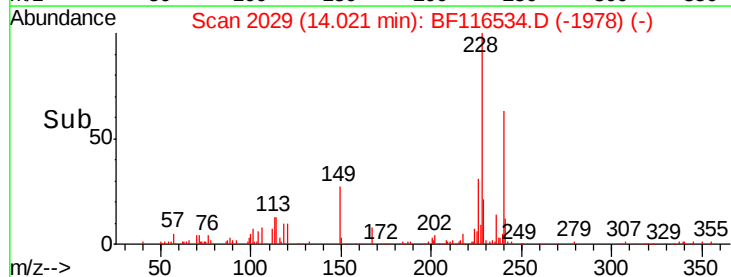
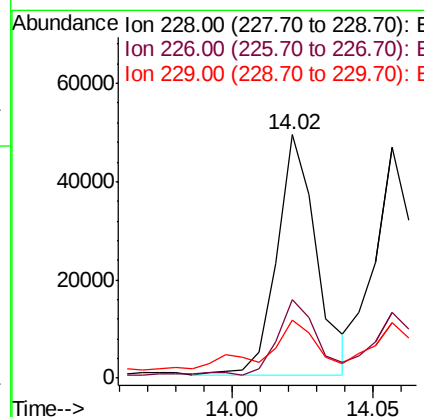
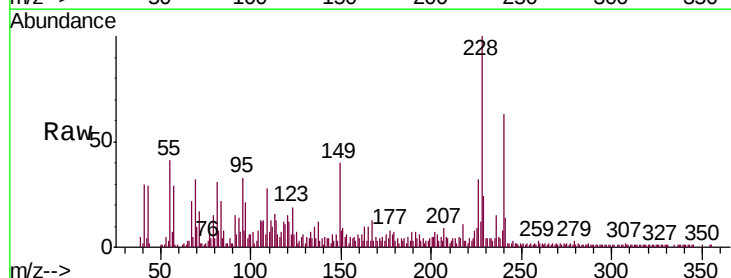
mohammad  
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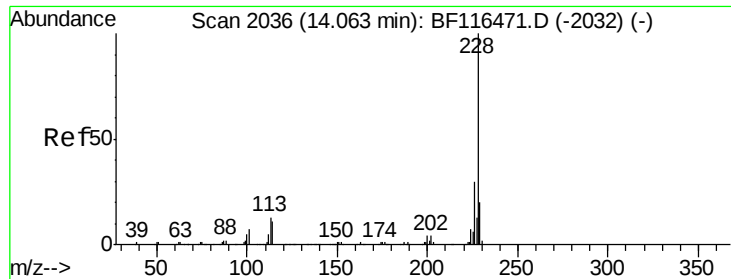


#81  
 Benzo(a)anthracene  
 Concen: 3.431 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.00 min  
 Lab File: BF116534.D  
 Acq: 25 Aug 2019 16:14

Tgt Ion:228 Resp: 47489  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.1  | 21.8  | 32.6  |
| 229 | 23.9  | 15.9  | 23.9# |





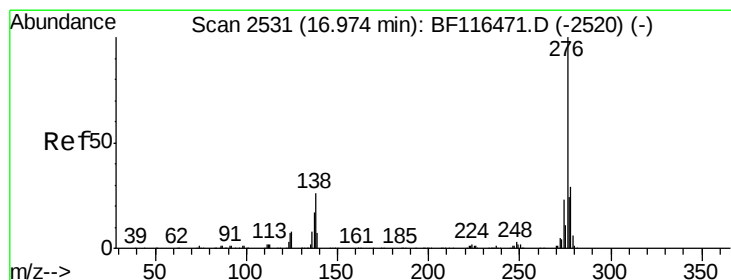
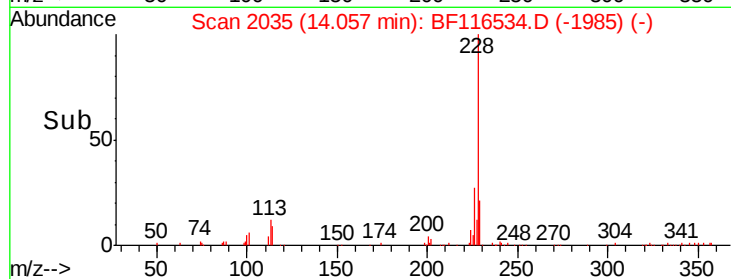
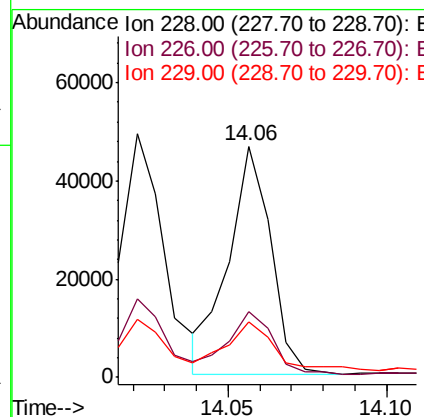
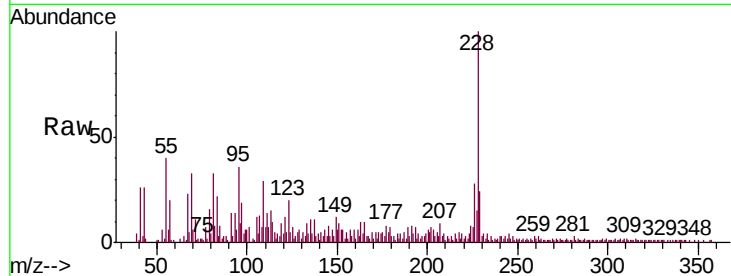
#83  
Chrysene  
Concen: 3.037 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.01 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

Instrument :  
BNA\_F  
ClientSampleId :  
T1-2-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 24.2  | 36.2  |
| 229     | 24.1  | 15.8  | 23.6  |

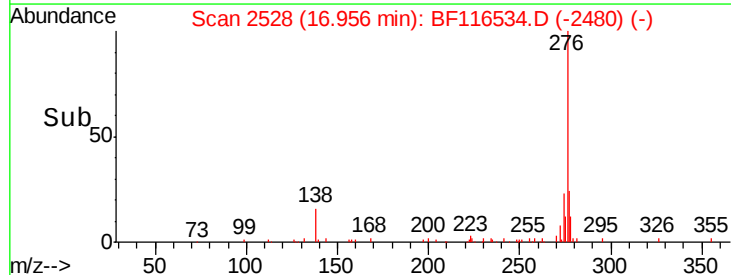
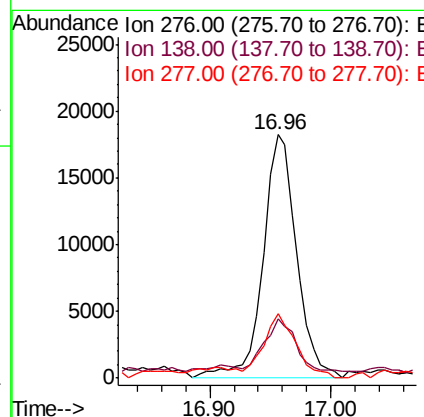
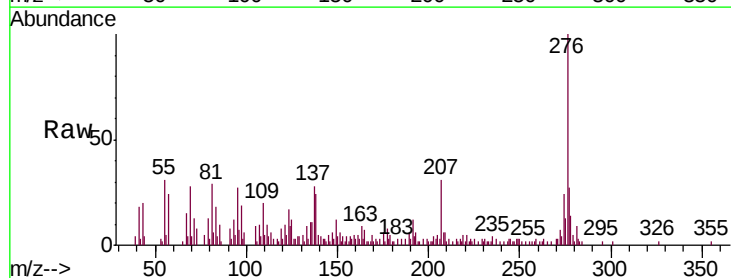
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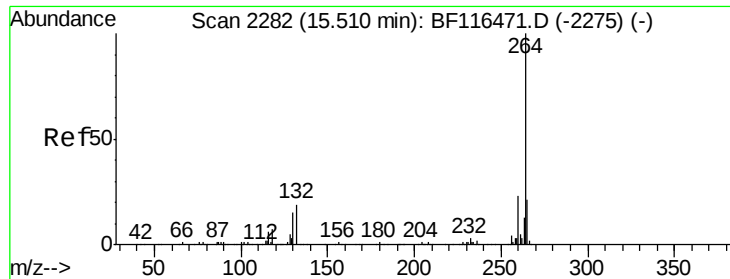
mohammad  
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#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.919 ng  
RT: 16.96 min Scan# 2528  
Delta R.T. -0.02 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.9  | 22.9  | 34.3  |
| 277     | 25.7  | 19.9  | 29.9  |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF116534.D

Acq: 25 Aug 2019 16:14

Instrument :

BNA\_F

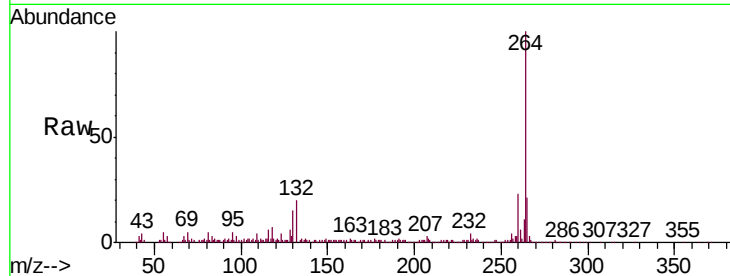
ClientSampled :

T1-2-C

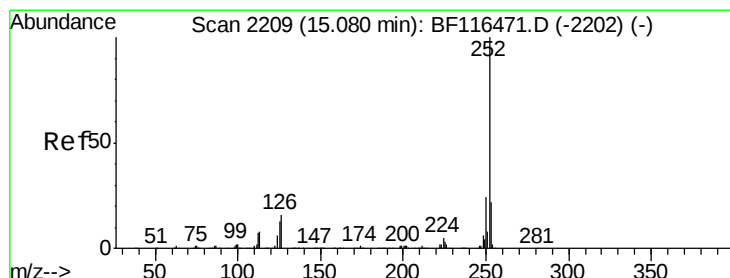
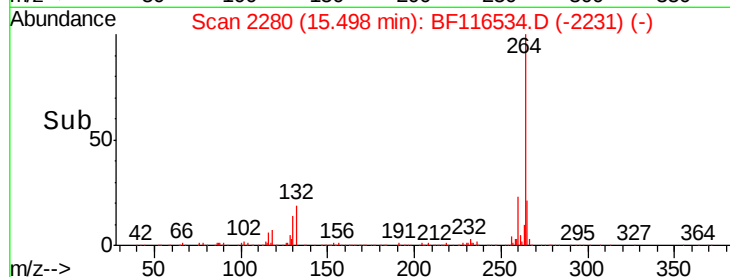
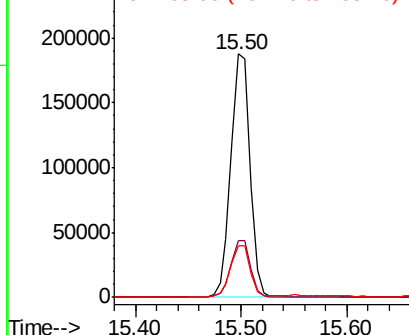
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 235499 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.2  | 18.8  | 28.2   |
| 265       | 21.3  | 17.1  | 25.7   |

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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



#88

Benzo(b)fluoranthene

Concen: 4.288 ng m

RT: 15.07 min Scan# 2207

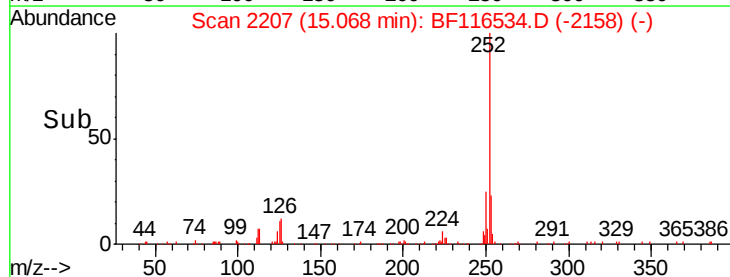
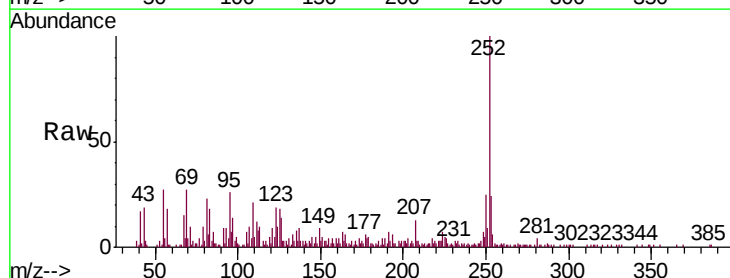
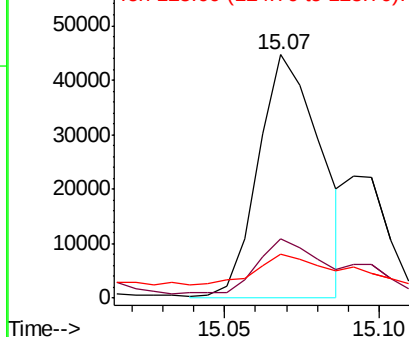
Delta R.T. -0.01 min

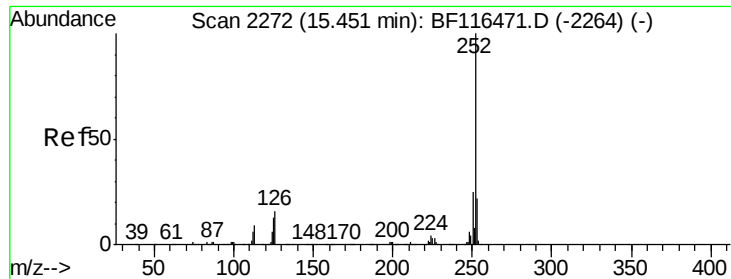
Lab File: BF116534.D

Acq: 25 Aug 2019 16:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 62389 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 17.5  | 26.3  |
| 125       | 18.2  | 10.1  | 15.1# |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





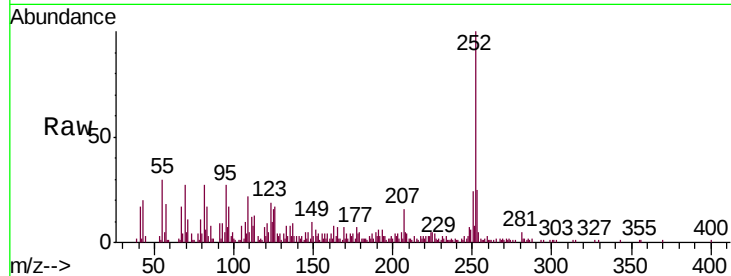
#90  
Benzo(a)pyrene  
Concen: 3.324 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. -0.02 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

Instrument :  
BNA\_F  
ClientSampled :  
T1-2-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.2  | 25.8  |
| 125     | 16.3  | 10.2  | 15.4  |

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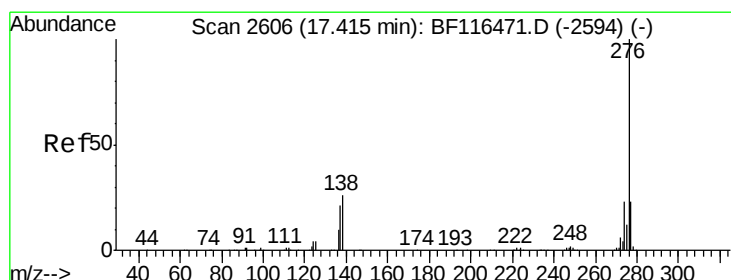
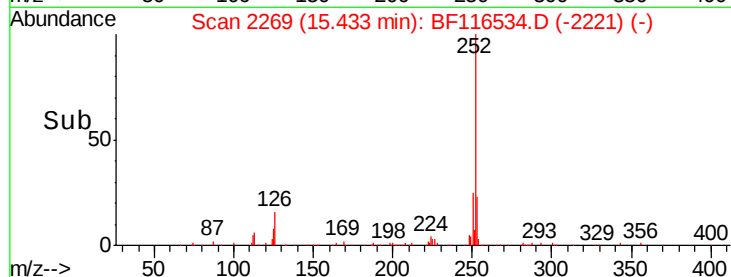
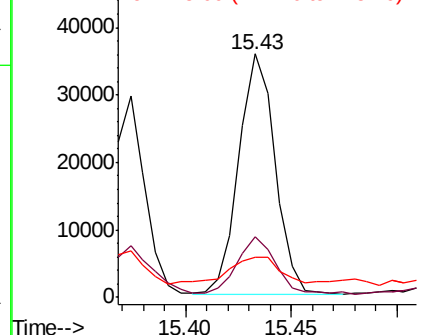


Abundance

Ion 252.00 (251.70 to 252.70): E

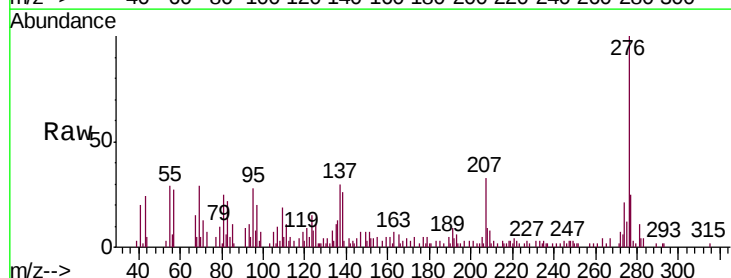
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 3.271 ng  
RT: 17.40 min Scan# 2604  
Delta R.T. -0.01 min  
Lab File: BF116534.D  
Acq: 25 Aug 2019 16:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.5  | 18.7  | 28.1  |
| 138     | 26.0  | 20.8  | 31.2  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

