

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\  
 Data File : BF116401.D  
 Acq On : 19 Aug 2019 21:28  
 Operator : HP/JU  
 Sample : K4277-09  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-22

Manual Integrations  
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 8/22/2019 12:45:29 PM

Quant Time: Aug 20 02:32:21 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 06:03:31 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 83341    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.09  | 136  | 334259   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.83  | 164  | 181750   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.32 | 188  | 342920   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12            | 13.96 | 240  | 320638   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12            | 15.42 | 264  | 323810   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 367365   | 73.79  | ng    | 0.00     |
| 7) Phenol-d6                | 6.45  | 99   | 519863   | 82.77  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 309645   | 53.47  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 132282   | 75.07  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 580375   | 59.81  | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.90 | 244  | 747822   | 49.15  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.55  | 163  | 133740   | 10.807 | ng    | 99       |
| 71) Phenanthrene            | 11.35 | 178  | 245274   | 13.991 | ng    | 98       |
| 72) Anthracene              | 11.41 | 178  | 46927    | 2.645  | ng    | 97       |
| 75) Fluoranthene            | 12.53 | 202  | 534378   | 29.117 | ng    | 98       |
| 78) Pyrene                  | 12.76 | 202  | 518831   | 21.466 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.95 | 228  | 246367   | 12.021 | ng    | 98       |
| 83) Chrysene                | 13.99 | 228  | 226209   | 11.369 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.89 | 276  | 101211   | 6.057  | ng    | 92       |
| 88) Benzo(b)fluoranthene    | 15.00 | 252  | 264630m  | 14.134 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.03 | 252  | 81048m   | 4.444  | ng    |          |
| 90) Benzo(a)pyrene          | 15.36 | 252  | 185012   | 11.054 | ng    | 99       |
| 92) Benzo(a,h,i)perylene    | 17.33 | 276  | 95035    | 6.679  | ng    | 97       |

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

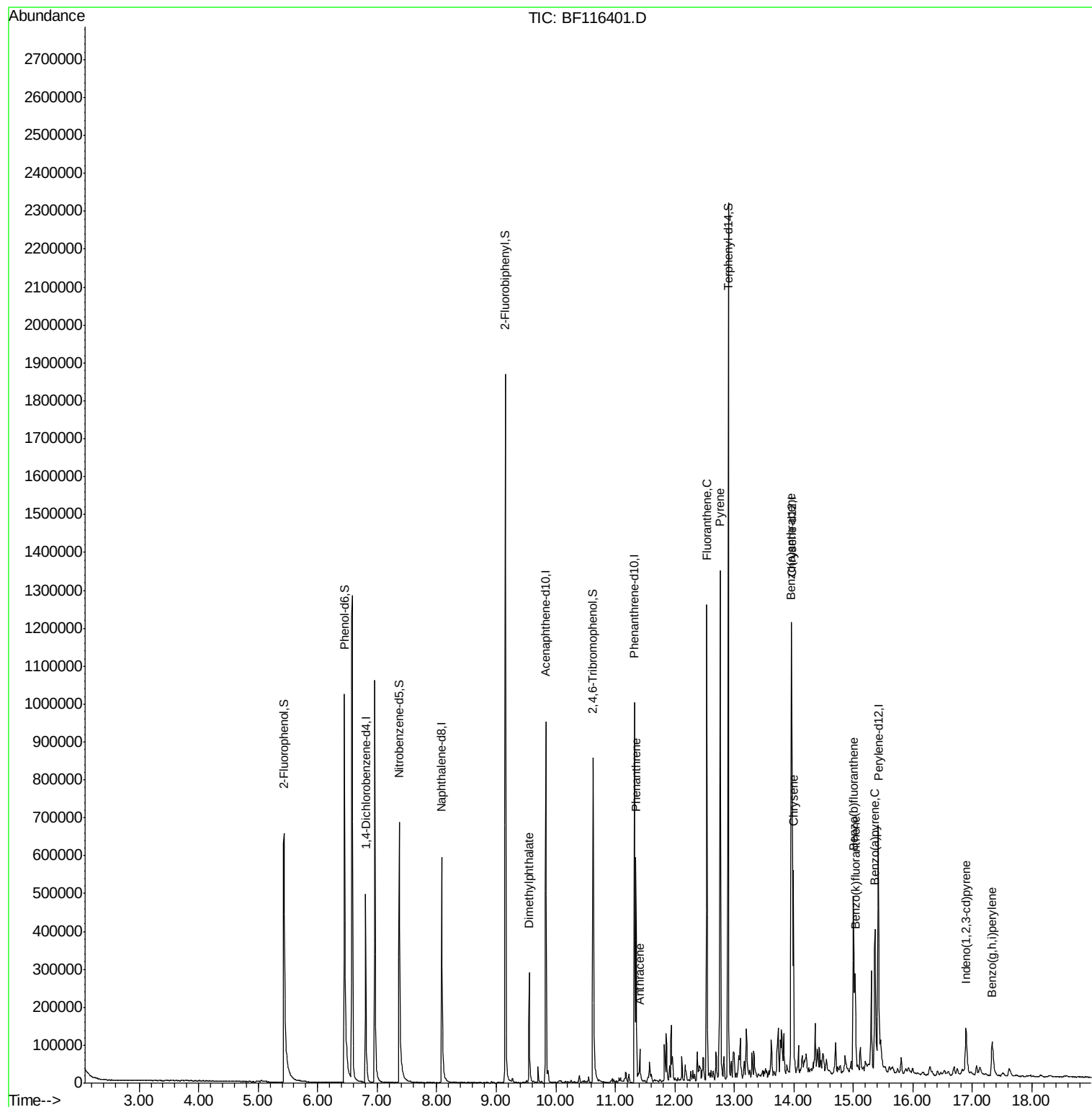
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\  
Data File : BF116401.D  
Acq On : 19 Aug 2019 21:28  
Operator : HP/JU  
Sample : K4277-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

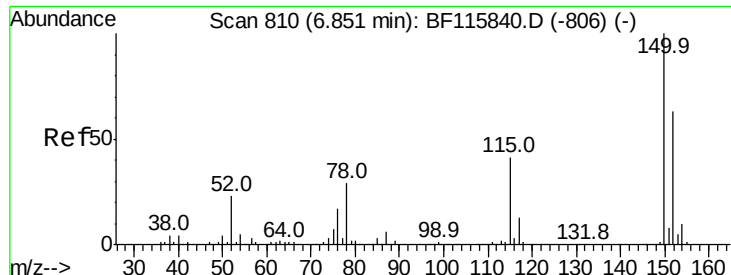
Instrument :  
BNA\_F  
ClientSampleId :  
TP-22

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Quant Time: Aug 20 02:32:21 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 06:03:31 2019  
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#1

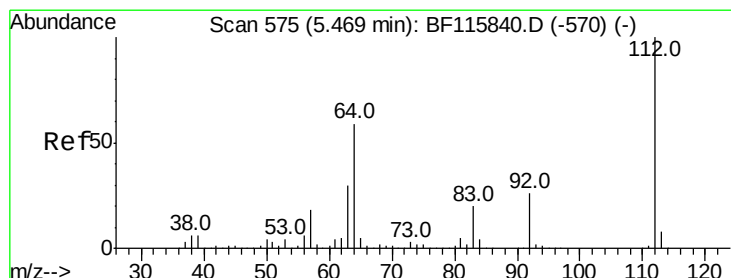
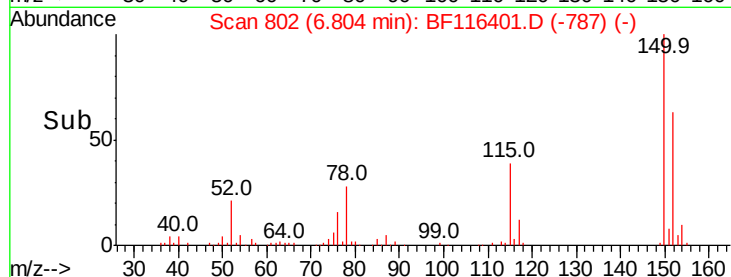
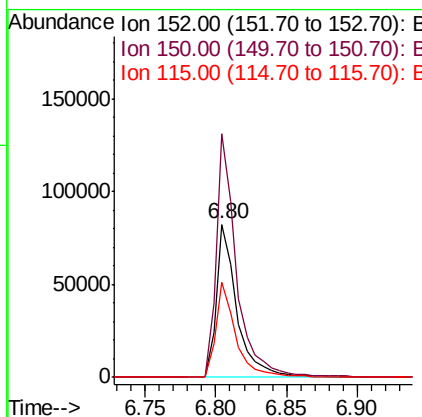
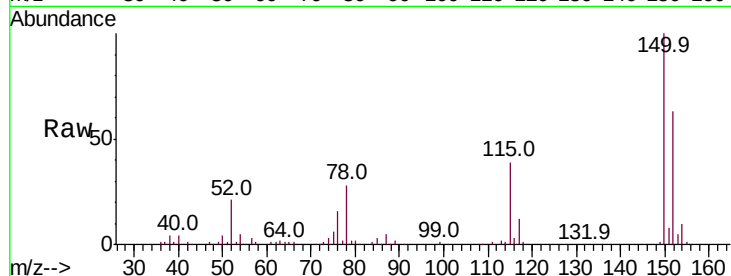
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

Instrument :  
BNA\_F  
ClientSampleId :  
TP-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.8 | 126.2 | 189.2 |
| 115     | 62.0  | 49.9  | 74.9  |

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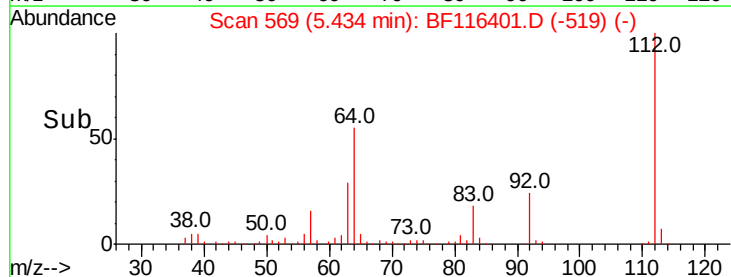
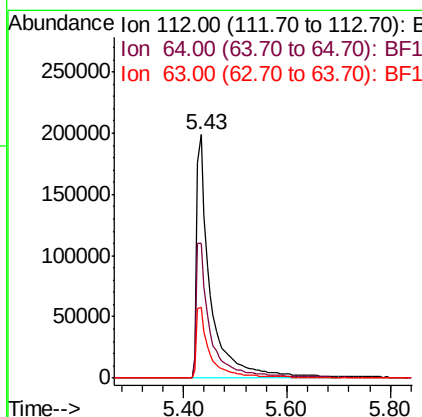
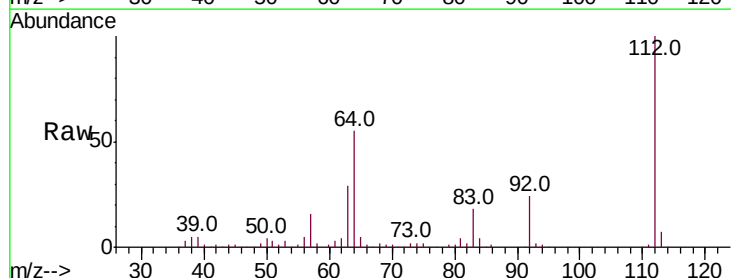
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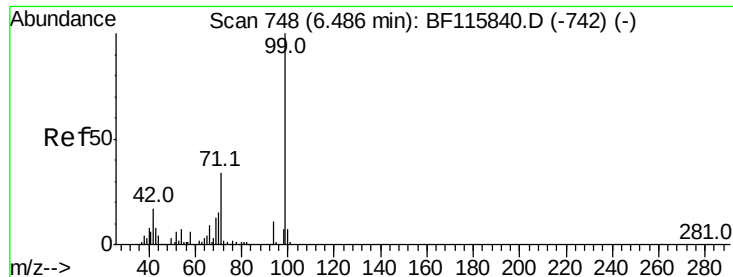


#5

2-Fluorophenol  
Concen: 73.792 ng  
RT: 5.43 min Scan# 569  
Delta R.T. -0.01 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.3  | 45.4  | 68.2  |
| 63      | 29.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 82.766 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.02 min

Lab File: BF116401.D

Acq: 19 Aug 2019 21:28

Instrument :

BNA\_F

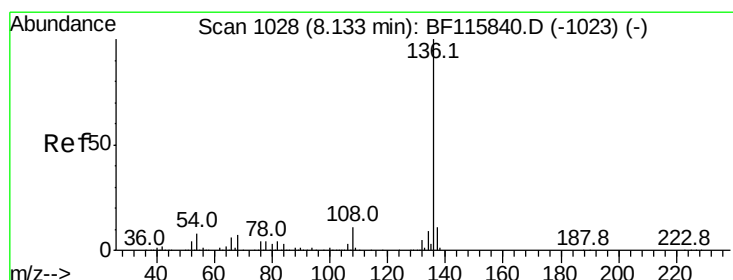
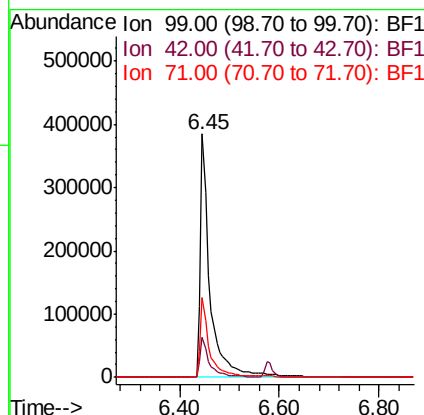
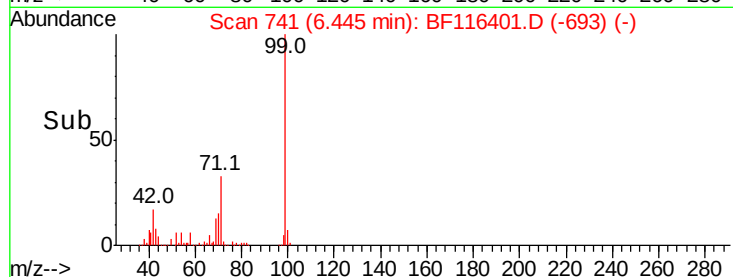
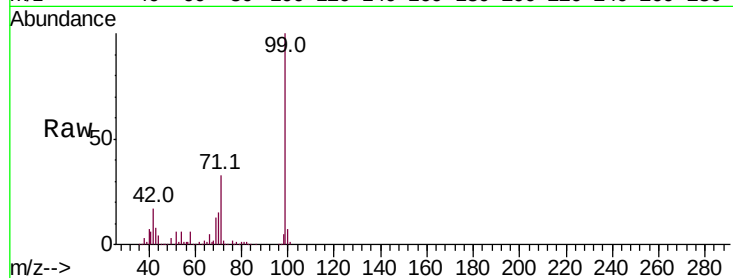
ClientSampled :

TP-22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 519863 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.7  | 13.8  | 20.8   |
| 71        | 32.8  | 27.3  | 40.9   |

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#21

Naphthalene-d8

Concen: 20.000 ng

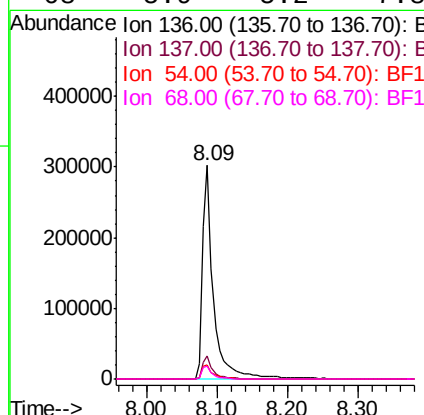
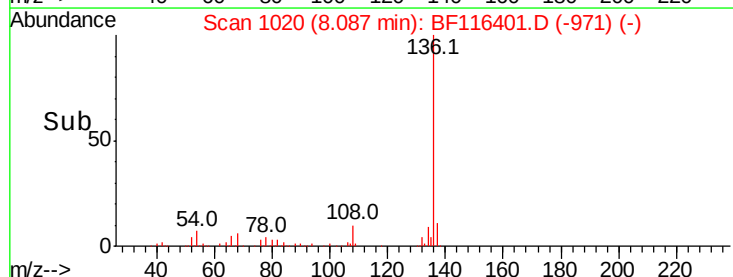
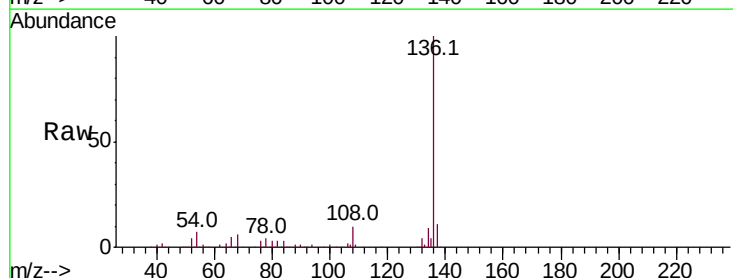
RT: 8.09 min Scan# 1020

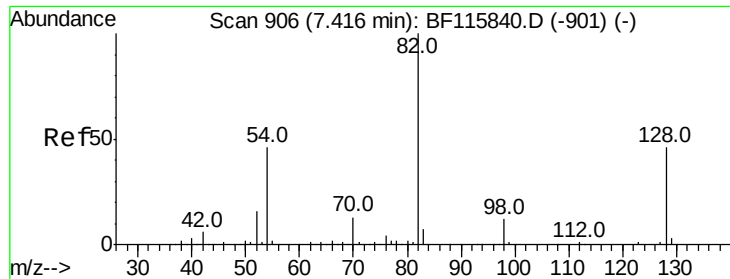
Delta R.T. -0.01 min

Lab File: BF116401.D

Acq: 19 Aug 2019 21:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 334259 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 9.0   | 13.4   |
| 54        | 6.7   | 5.8   | 8.6    |
| 68        | 5.9   | 5.2   | 7.8    |





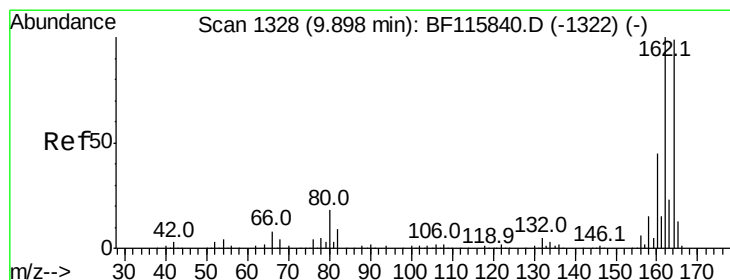
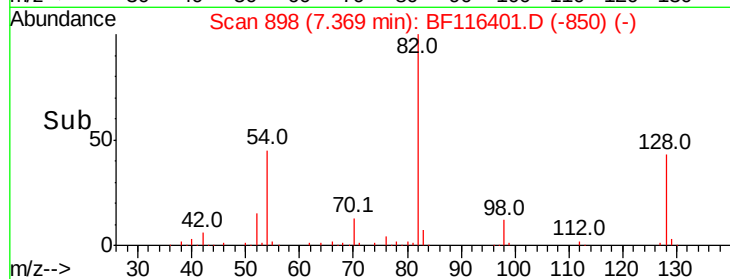
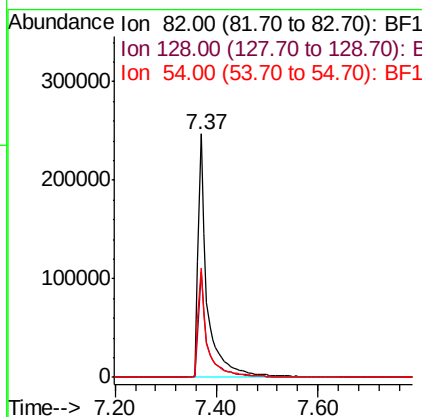
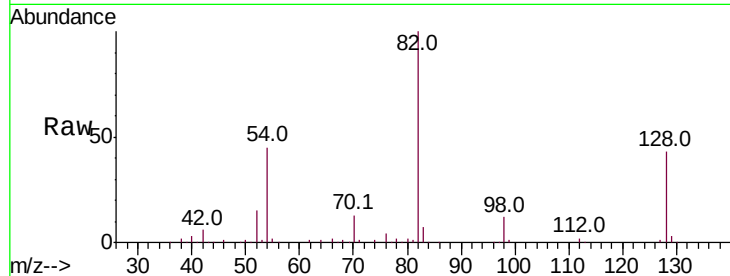
#23  
 Nitrobenzene-d5  
 Concen: 53.473 ng  
 RT: 7.37 min Scan# 898  
 Delta R.T. -0.02 min  
 Lab File: BF116401.D  
 Acq: 19 Aug 2019 21:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.2  | 36.5  | 54.7  |
| 54      | 45.0  | 36.0  | 54.0  |

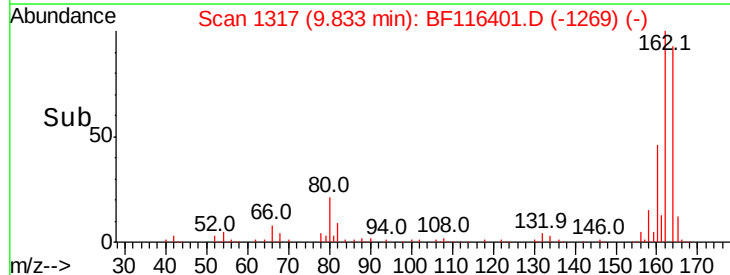
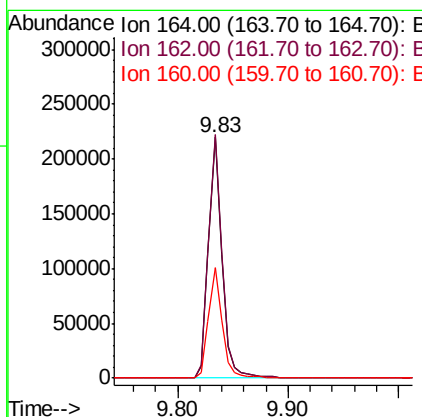
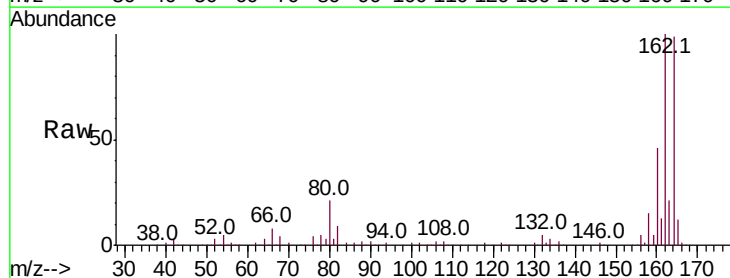
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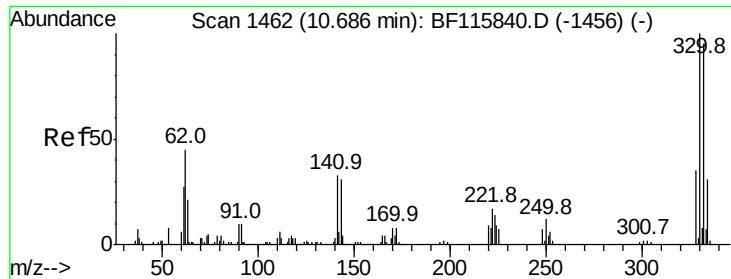
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.02 min  
 Lab File: BF116401.D  
 Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.2 | 82.6  | 124.0 |
| 160     | 46.0  | 37.6  | 56.4  |





#42

2,4,6-Tribromophenol

Concen: 75.070 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF116401.D

Acq: 19 Aug 2019 21:28

Instrument :

BNA\_F

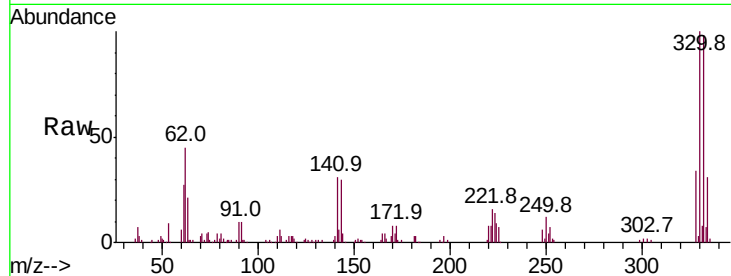
ClientSampleId :

TP-22

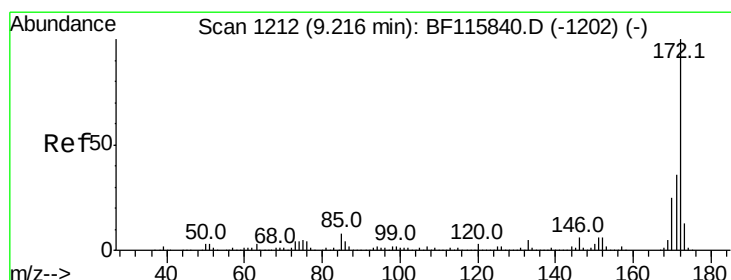
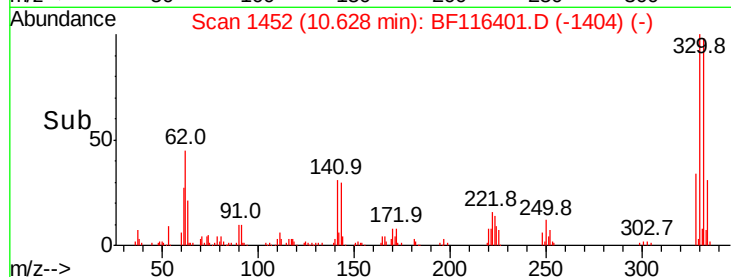
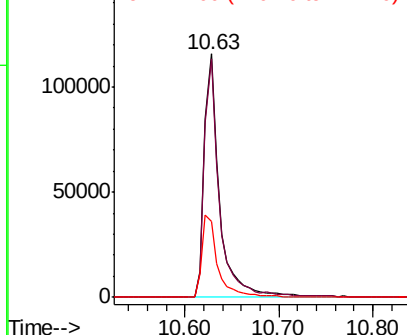
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 132282 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.0  | 76.8  | 115.2  |
| 141       | 35.4  | 26.3  | 39.5   |

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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



#45

2-Fluorobiphenyl

Concen: 59.812 ng

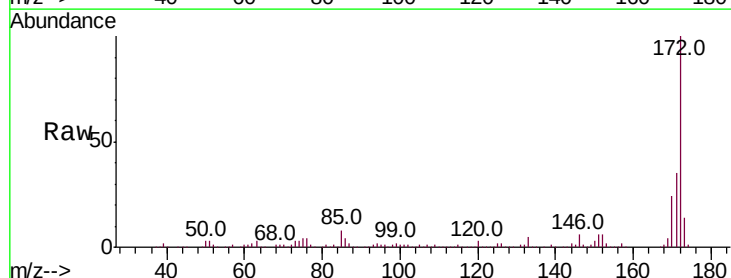
RT: 9.15 min Scan# 1201

Delta R.T. -0.02 min

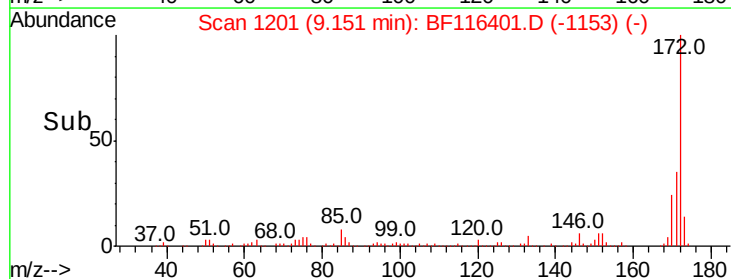
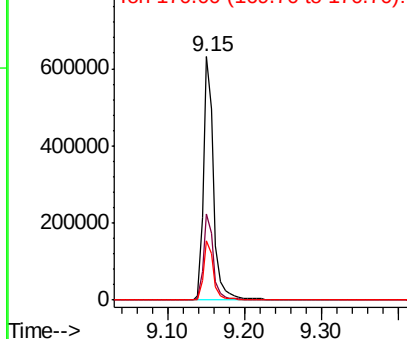
Lab File: BF116401.D

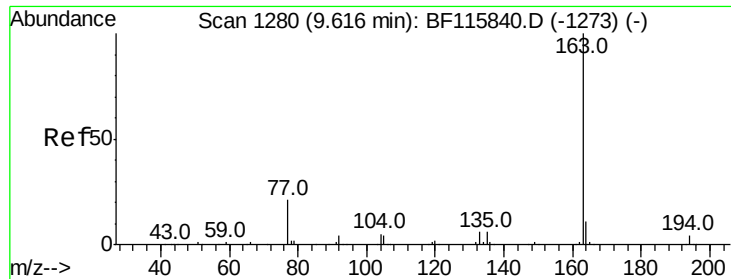
Acq: 19 Aug 2019 21:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 580375 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.5  | 29.6  | 44.4   |
| 170       | 24.3  | 20.1  | 30.1   |



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





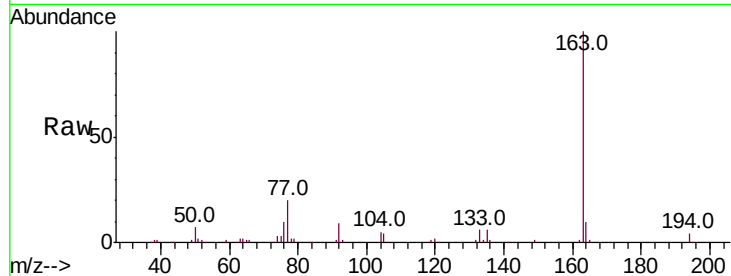
#50  
Dimethylphthalate  
Concen: 10.807 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

Instrument :  
BNA\_F  
ClientSampleId :  
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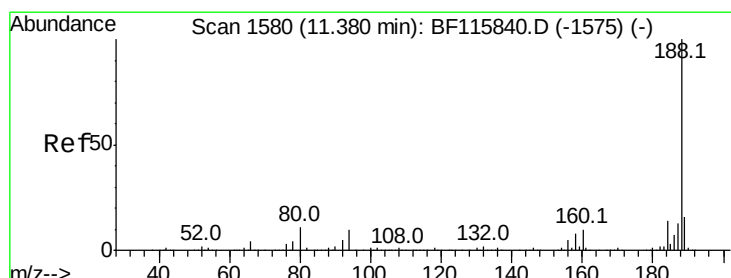
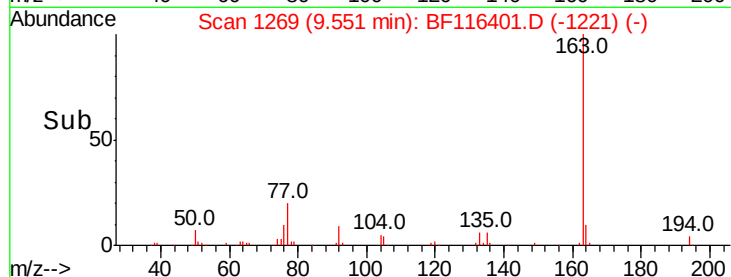
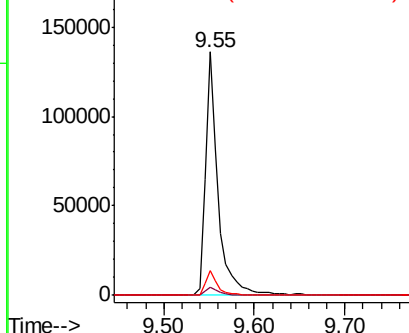
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 133740 |       |       |
| 194     | 3.6   |        | 3.0   | 4.6   |
| 164     | 10.0  |        | 8.4   | 12.6  |

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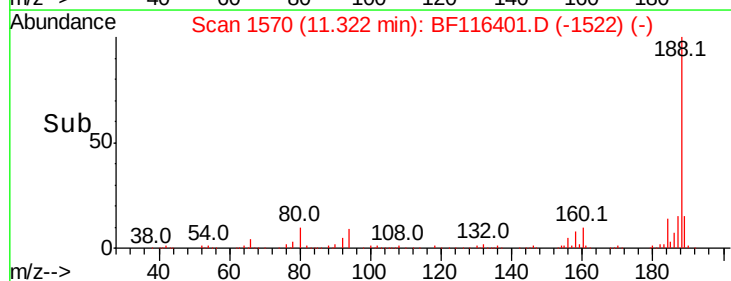
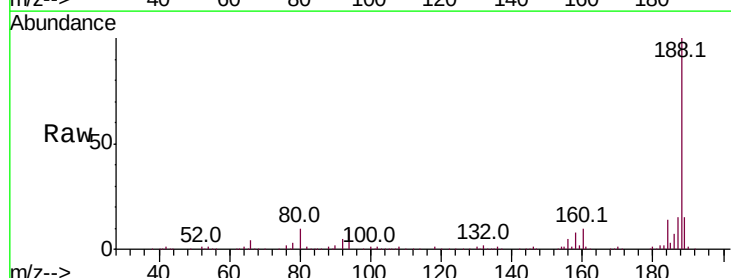
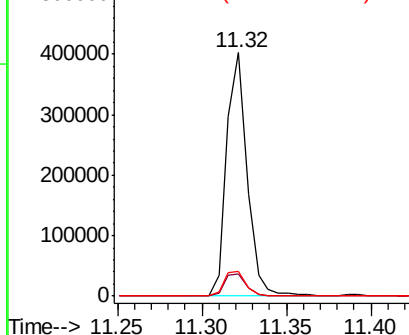
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

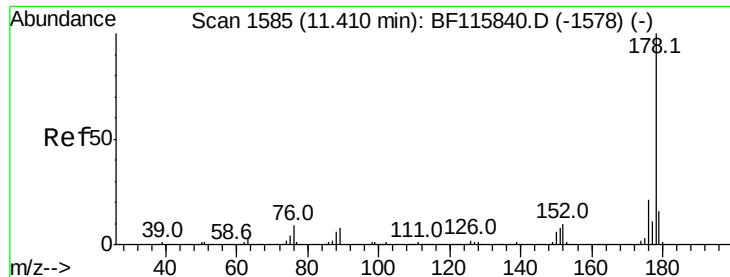


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 342920 |       |       |
| 94      | 9.3   |        | 8.1   | 12.1  |
| 80      | 10.3  |        | 8.7   | 13.1  |

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





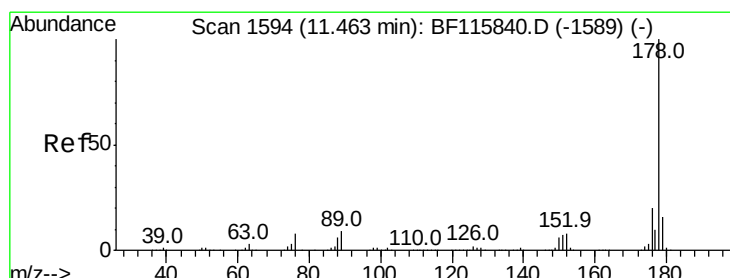
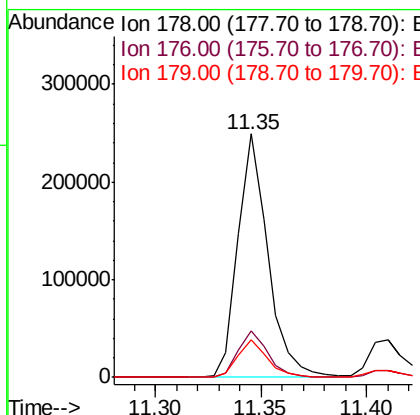
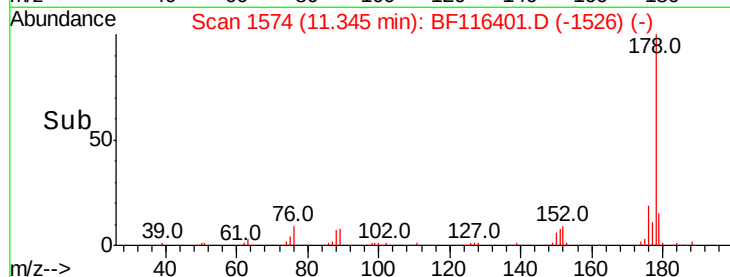
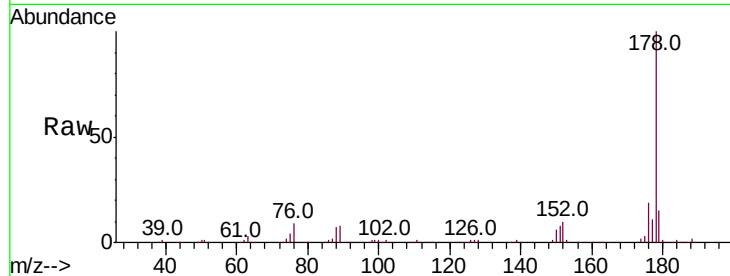
#71  
Phenanthrene  
Concen: 13.991 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

Instrument :  
BNA\_F  
ClientSampleId :  
TP-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 16.6  | 24.8  |
| 179     | 15.4  | 12.5  | 18.7  |

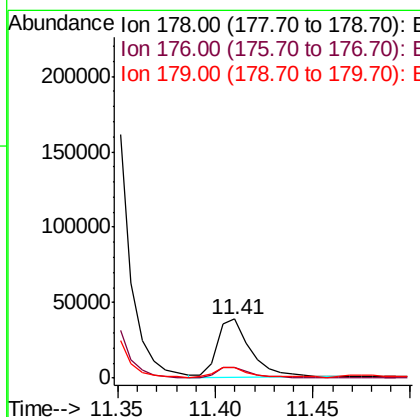
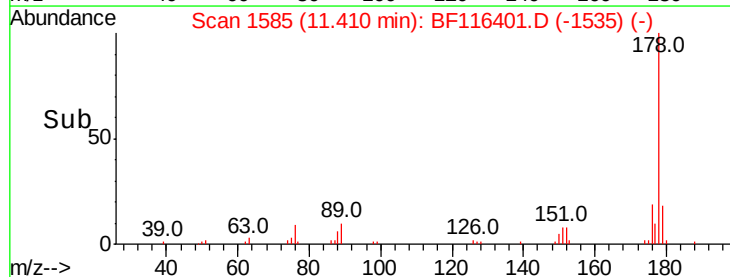
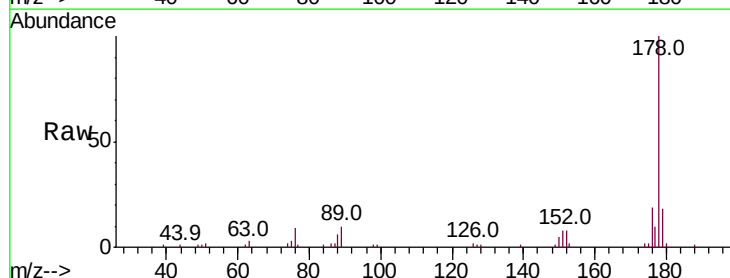
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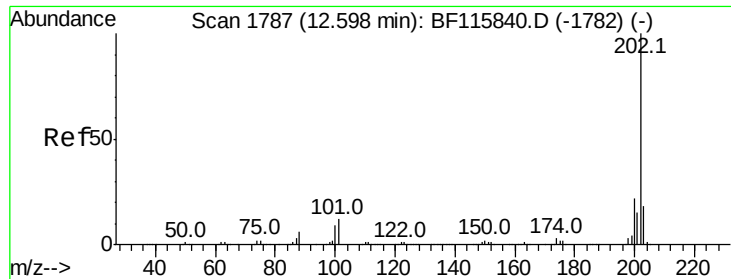


#72  
Anthracene  
Concen: 2.645 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.01 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.7  | 23.5  |
| 179     | 18.4  | 13.0  | 19.6  |







#75

Fluoranthene

Concen: 29.117 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.02 min

Lab File: BF116401.D

Acq: 19 Aug 2019 21:28

Instrument :

BNA\_F

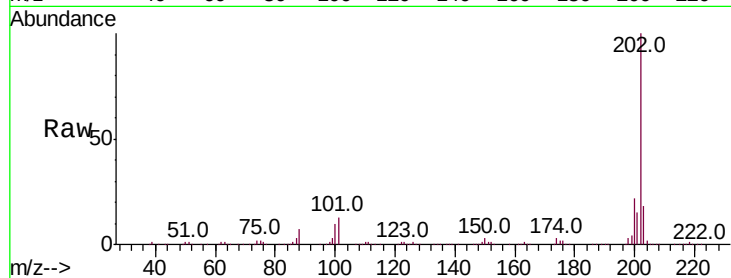
ClientSampleId :

TP-22

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 534378 |       |       |
| 101     | 13.0  |        | 0.0   | 31.2  |
| 203     | 18.0  |        | 0.0   | 37.8  |

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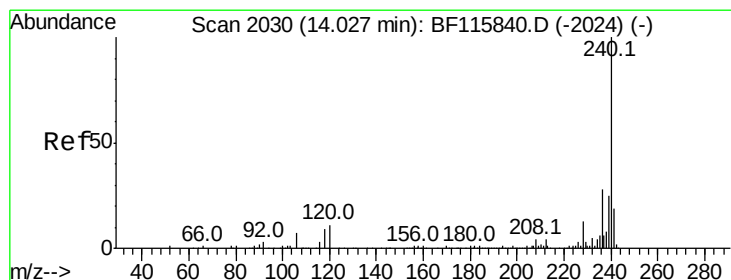
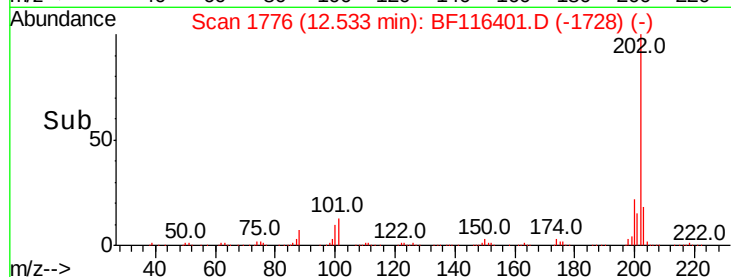
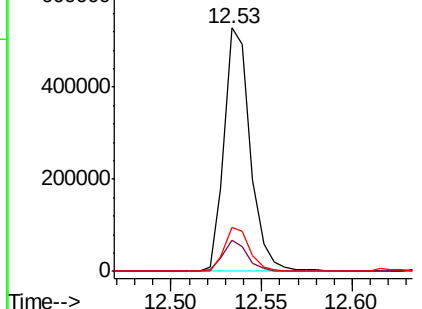
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116401.D

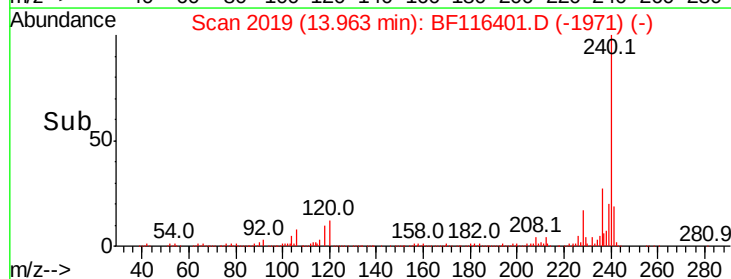
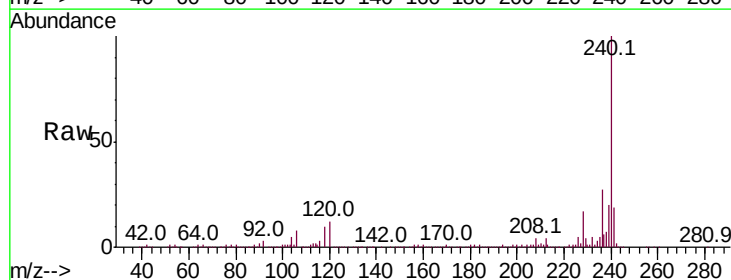
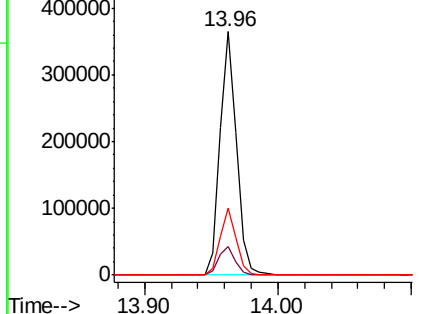
Acq: 19 Aug 2019 21:28

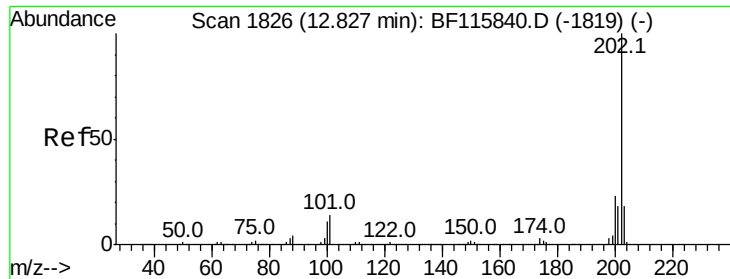
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 320638 |       |       |
| 120     | 11.7  |        | 10.7  | 16.1  |
| 236     | 27.4  |        | 22.2  | 33.2  |

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





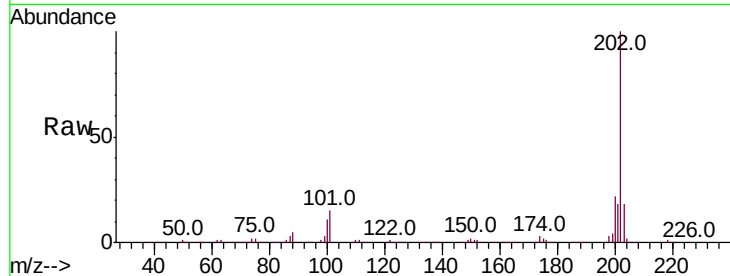
#78  
Pvrene  
Concen: 21.466 ng  
RT: 12.76 min Scan# 1815  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

Instrument :  
BNA\_F  
ClientSampleId :  
TP-22

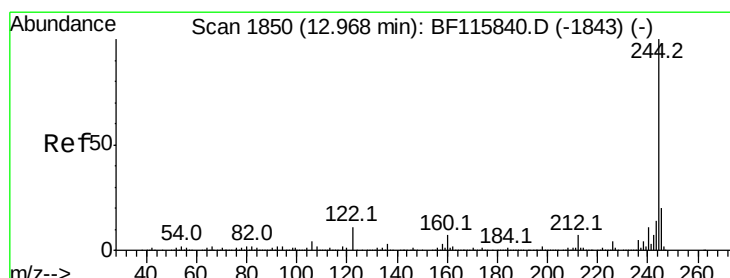
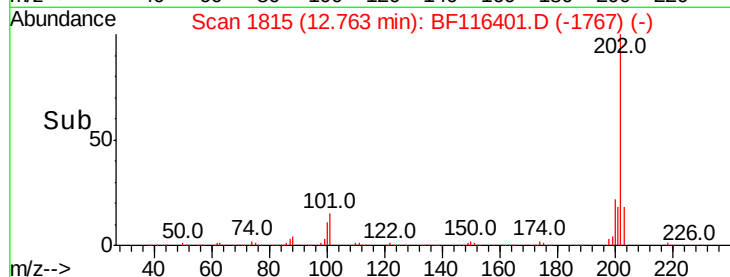
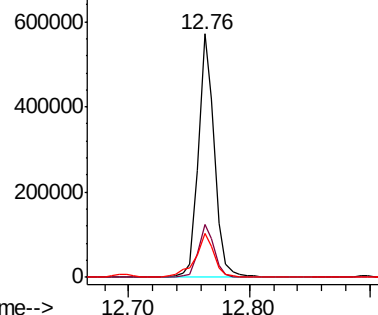
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.9  | 18.0       | 27.0  |
| 203     | 17.9  | 14.1       | 21.1  |

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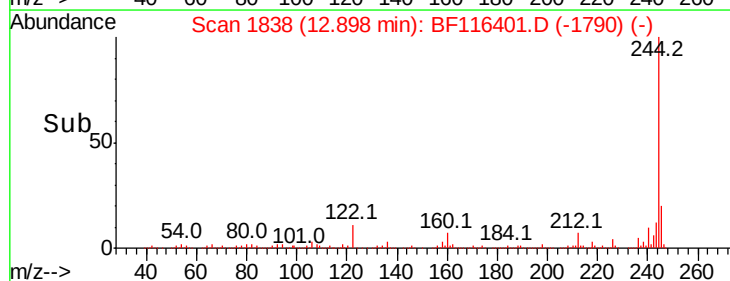
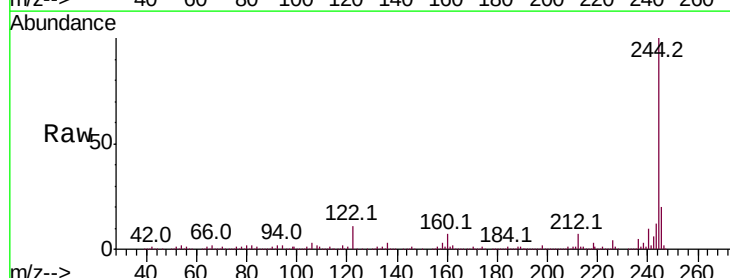
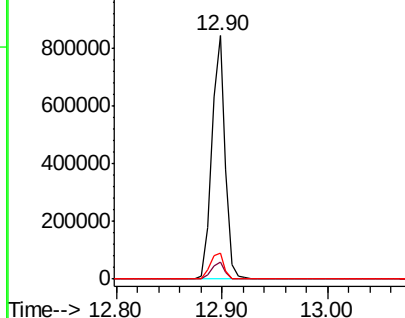
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

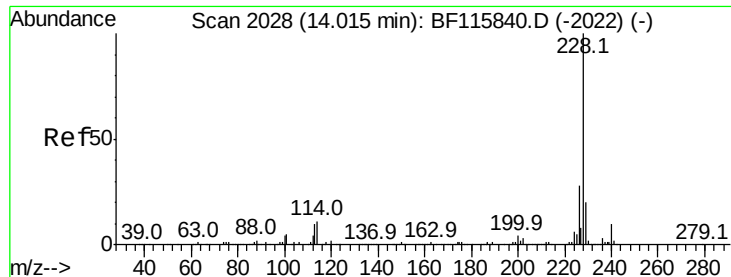


#79  
Terphenyl-d14  
Concen: 49.145 ng  
RT: 12.90 min Scan# 1838  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.8   | 5.8        | 8.8   |
| 122     | 10.9  | 9.0        | 13.4  |

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





#81

Benzo(a)anthracene

Concen: 12.021 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF116401.D

Acq: 19 Aug 2019 21:28

Instrument :

BNA\_F

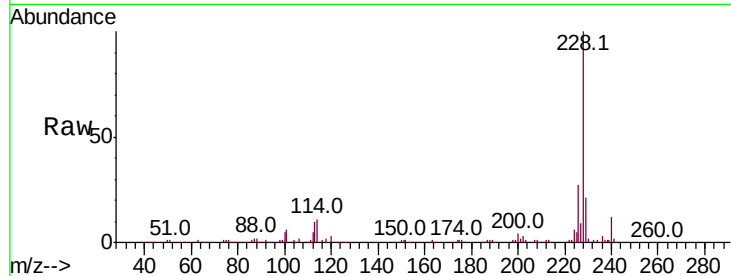
ClientSampleId :

TP-22

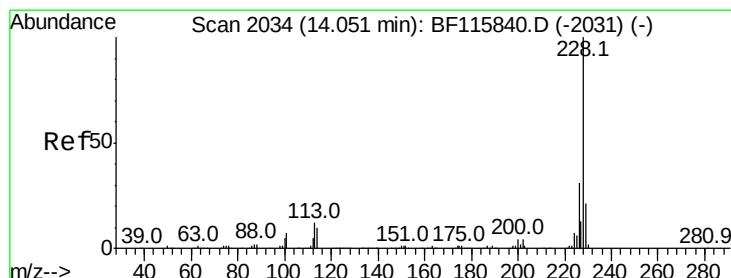
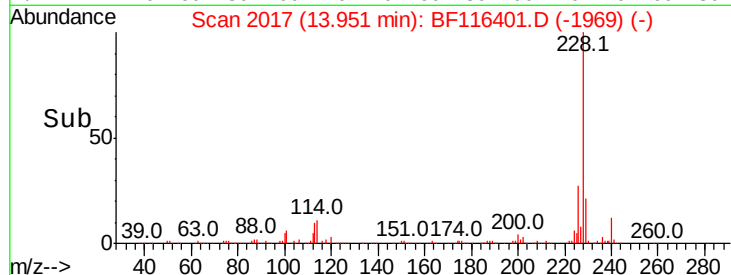
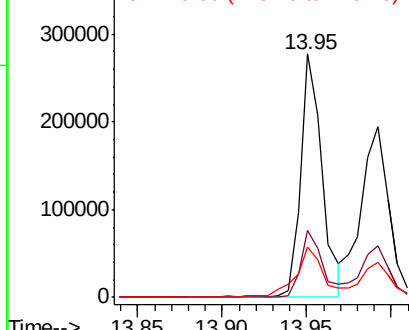
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 246367 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.5  | 22.7  | 34.1   |
| 229       | 20.9  | 16.2  | 24.4   |

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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



#83

Chrysene

Concen: 11.369 ng

RT: 13.99 min Scan# 2024

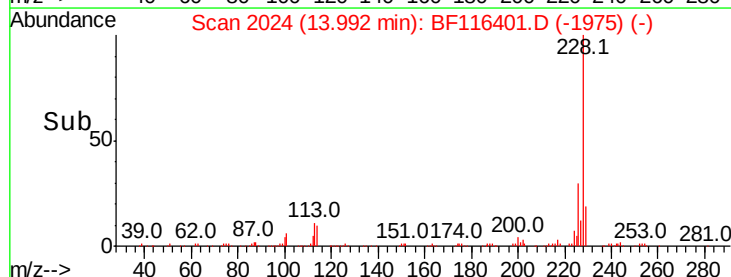
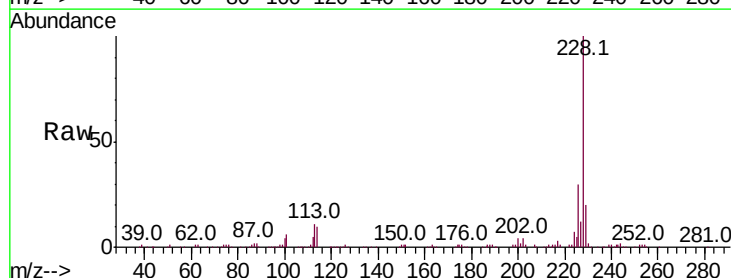
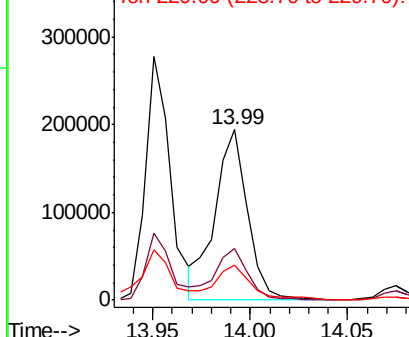
Delta R.T. -0.01 min

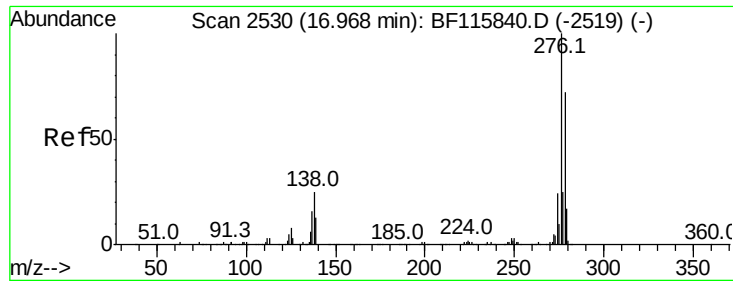
Lab File: BF116401.D

Acq: 19 Aug 2019 21:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 226209 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.3  | 25.5  | 38.3   |
| 229       | 20.3  | 16.6  | 24.8   |

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





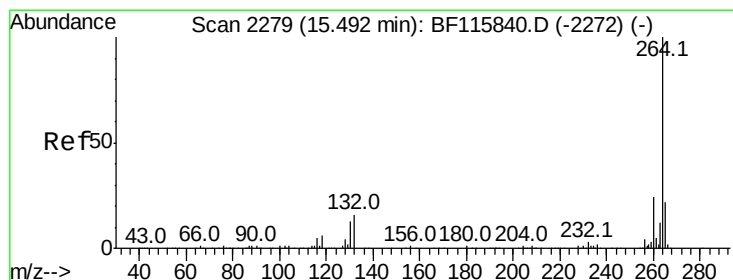
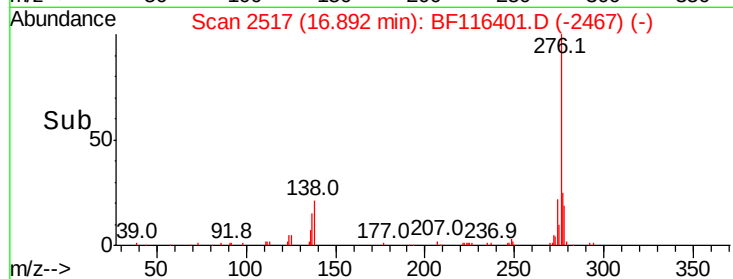
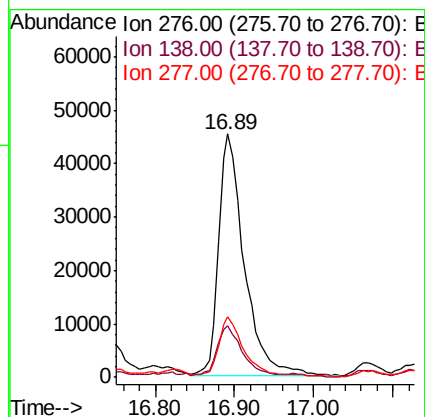
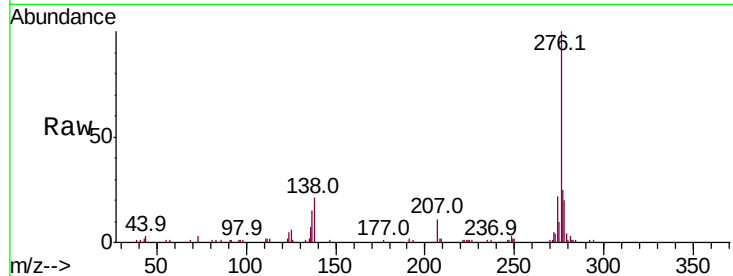
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.057 ng  
 RT: 16.89 min Scan# 2517  
 Delta R.T. -0.01 min  
 Lab File: BF116401.D  
 Acq: 19 Aug 2019 21:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.5  | 20.4  | 30.6  |
| 277     | 22.4  | 20.0  | 30.0  |

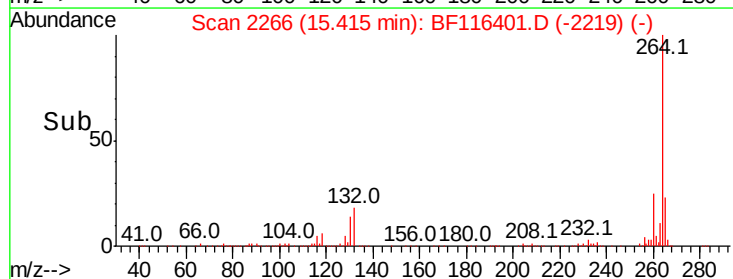
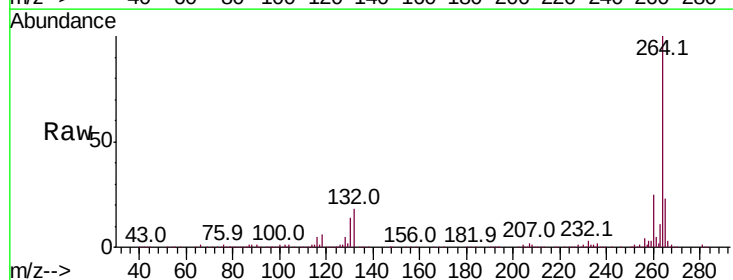
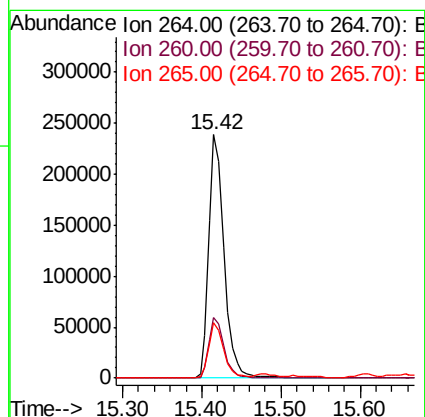
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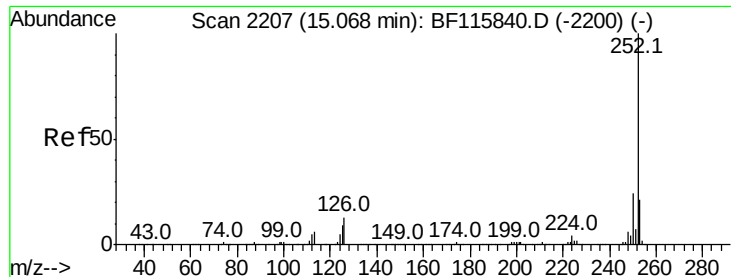
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#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2266  
 Delta R.T. -0.02 min  
 Lab File: BF116401.D  
 Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.7  | 29.5  |
| 265     | 22.8  | 17.4  | 26.0  |





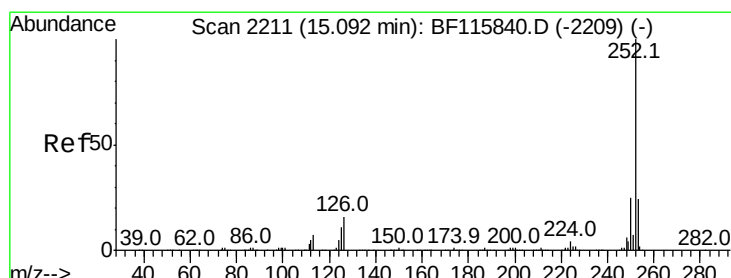
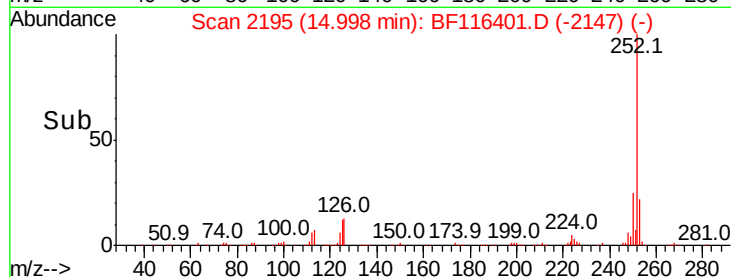
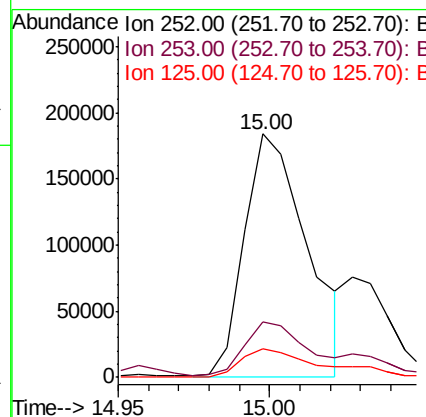
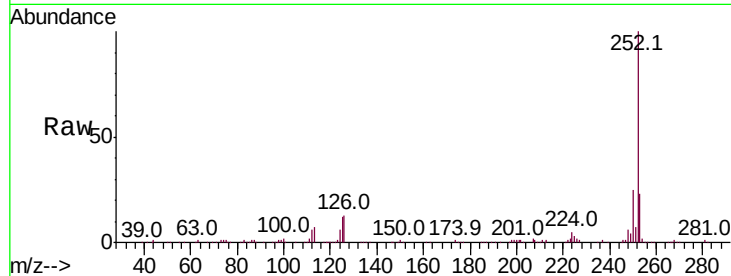
#88  
Benzo(b)fluoranthene  
Concen: 14.134 ng m  
RT: 15.00 min Scan# 2195  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

Instrument :  
BNA\_F  
ClientSampled :  
TP-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.8  | 26.8  |
| 125     | 11.7  | 8.4   | 12.6  |

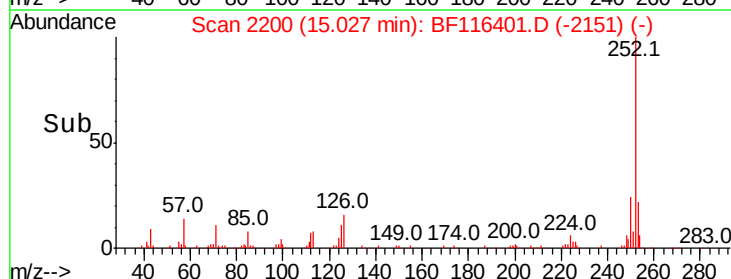
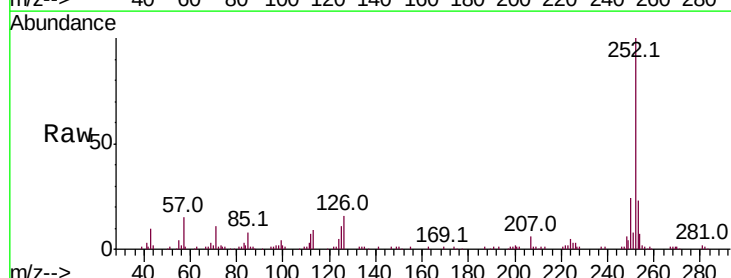
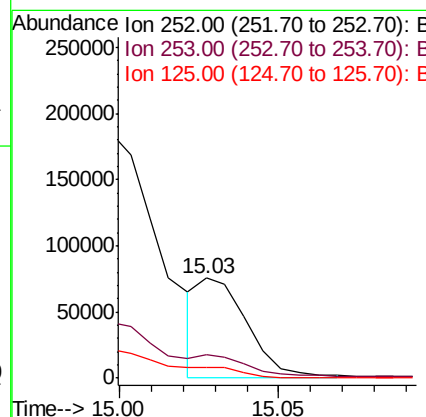
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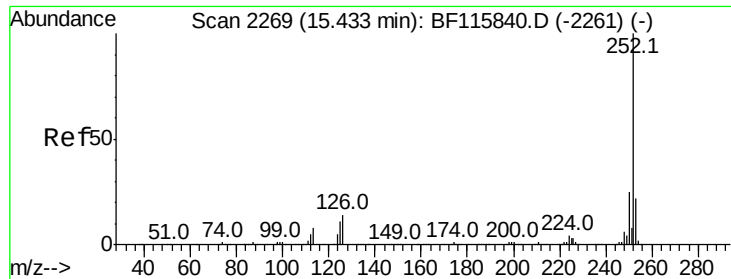
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#89  
Benzo(k)fluoranthene  
Concen: 4.444 ng m  
RT: 15.03 min Scan# 2200  
Delta R.T. -0.01 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.8  | 26.8  |
| 125     | 11.2  | 7.7   | 11.5  |





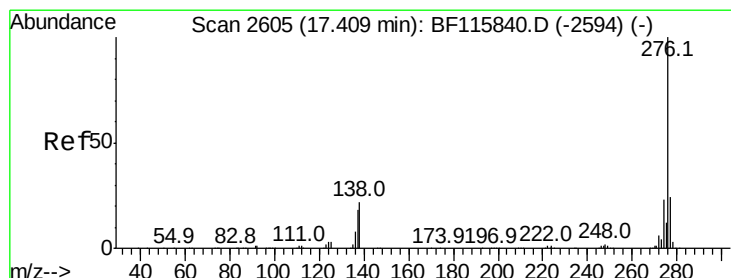
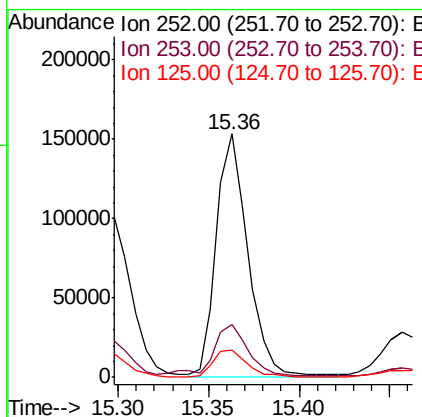
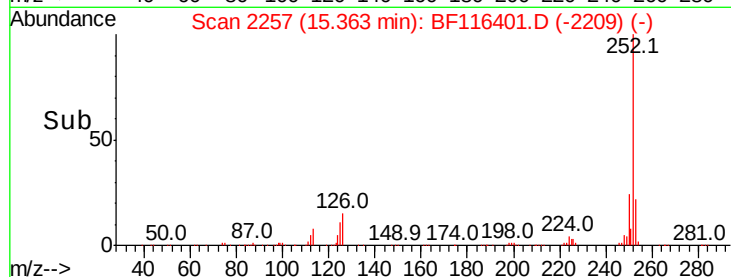
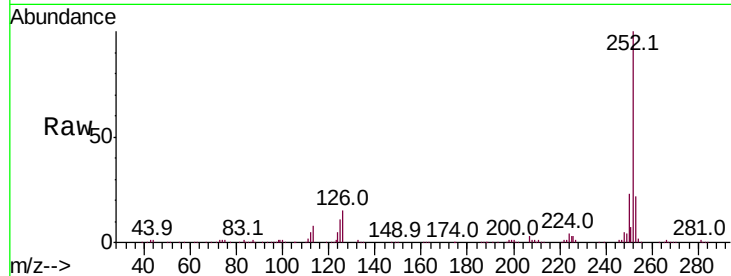
#90  
Benzo(a)pyrene  
Concen: 11.054 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. -0.02 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

Instrument :  
BNA\_F  
ClientSampleId :  
TP-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 18.0  | 27.0  |
| 125     | 11.2  | 8.9   | 13.3  |

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#92  
Benzo(g,h,i)perylene  
Concen: 6.679 ng  
RT: 17.33 min Scan# 2591  
Delta R.T. -0.01 min  
Lab File: BF116401.D  
Acq: 19 Aug 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.2  | 18.4  | 27.6  |
| 138     | 23.2  | 17.0  | 25.6  |

