

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\  
 Data File : BF116402.D  
 Acq On : 19 Aug 2019 21:55  
 Operator : HP/JU  
 Sample : K4277-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-20

Manual Integrations  
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 8/22/2019 12:45:31 PM

Quant Time: Aug 20 02:35:49 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  | 90042    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.09  | 136  | 356508   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.83  | 164  | 194016   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.32 | 188  | 365397   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12            | 13.96 | 240  | 333534   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12            | 15.42 | 264  | 341095   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 423545   | 78.75 | ng    | -0.01    |
| 7) Phenol-d6                | 6.45  | 99   | 590723   | 87.05 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 358560   | 58.06 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 154153   | 81.95 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 597880   | 57.72 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.90 | 244  | 712408   | 45.01 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.55  | 163  | 89670    | 6.788 | ng    | 99       |
| 71) Phenanthrene            | 11.35 | 178  | 104832   | 5.612 | ng    | 97       |
| 75) Fluoranthene            | 12.54 | 202  | 145152   | 7.422 | ng    | 100      |
| 78) Pyrene                  | 12.77 | 202  | 129472   | 5.150 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.95 | 228  | 61534    | 2.886 | ng    | 97       |
| 83) Chrysene                | 13.99 | 228  | 64208    | 3.102 | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 15.01 | 252  | 64812m   | 3.286 | ng    |          |
| 90) Benzo(a)pyrene          | 15.37 | 252  | 44421    | 2.520 | ng    | 99       |

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

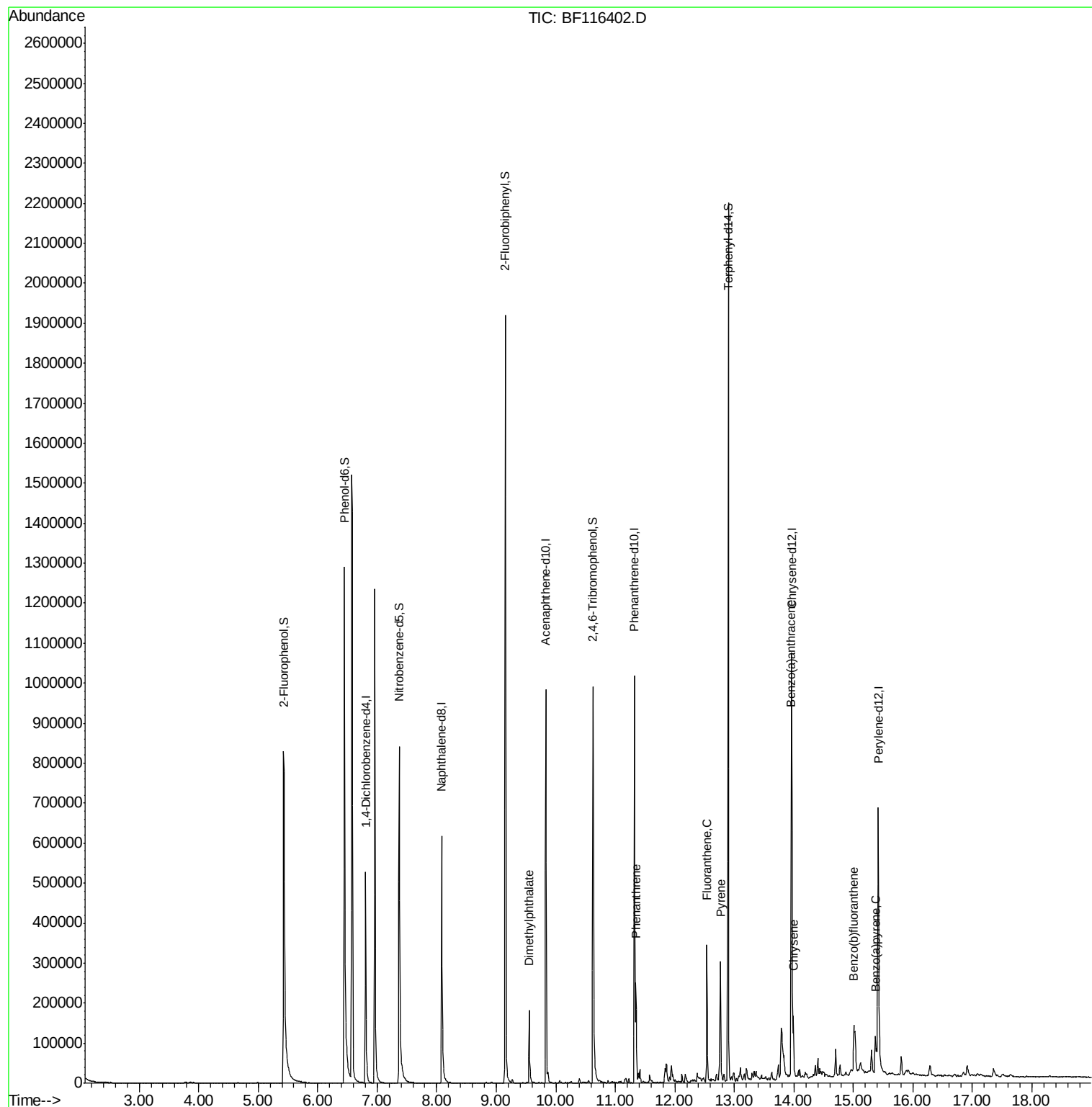
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\  
Data File : BF116402.D  
Acq On : 19 Aug 2019 21:55  
Operator : HP/JU  
Sample : K4277-05  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

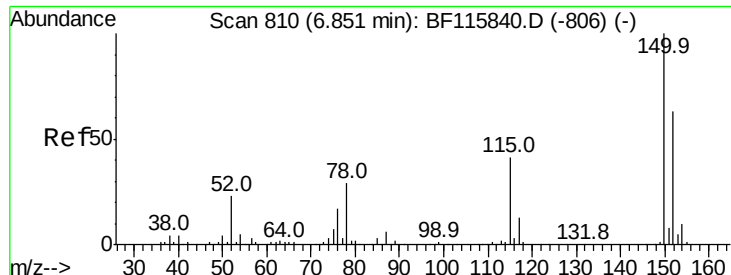
Instrument :  
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ClientSampleId :  
TP-20

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Quant Time: Aug 20 02:35:49 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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#1

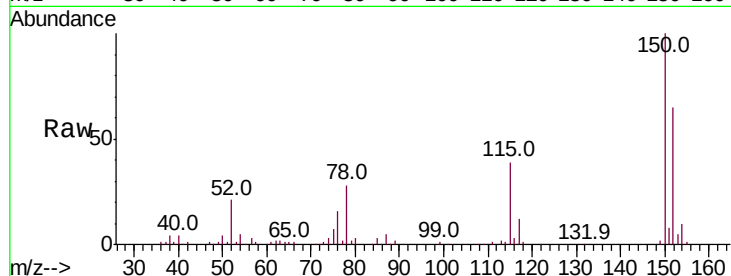
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.6 | 126.2 | 189.2 |
| 115     | 60.0  | 49.9  | 74.9  |

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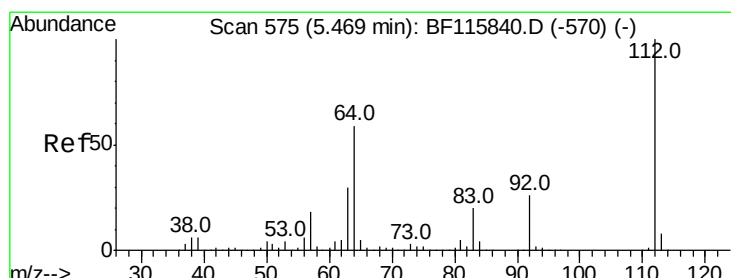
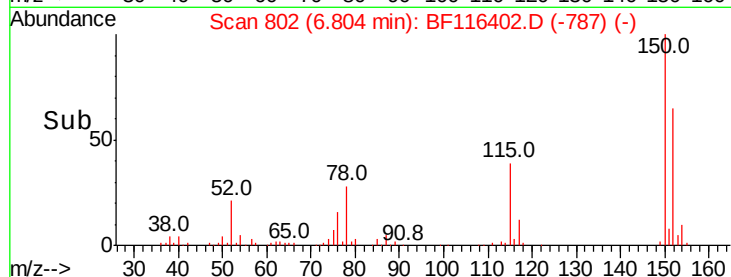
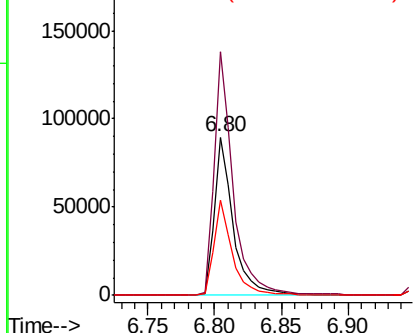


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

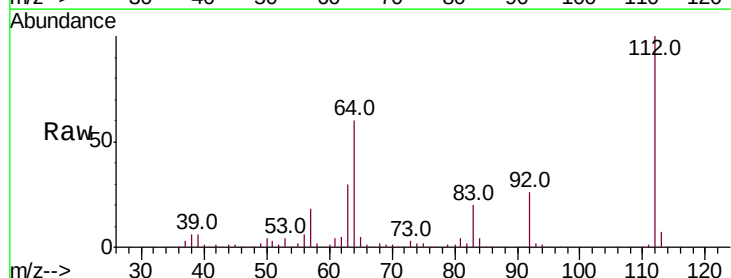
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 78.746 ng  
RT: 5.43 min Scan# 568  
Delta R.T. -0.01 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.0  | 45.4  | 68.2  |
| 63      | 30.3  | 23.7  | 35.5  |

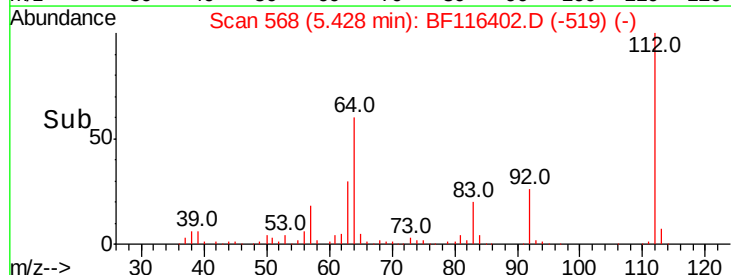
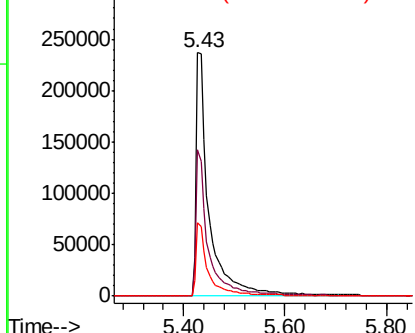


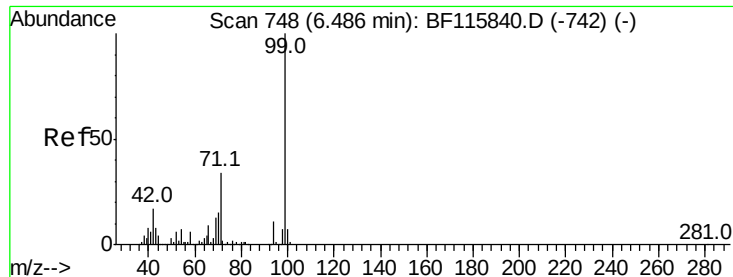
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 87.049 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.02 min

Lab File: BF116402.D

Acq: 19 Aug 2019 21:55

Instrument :

BNA\_F

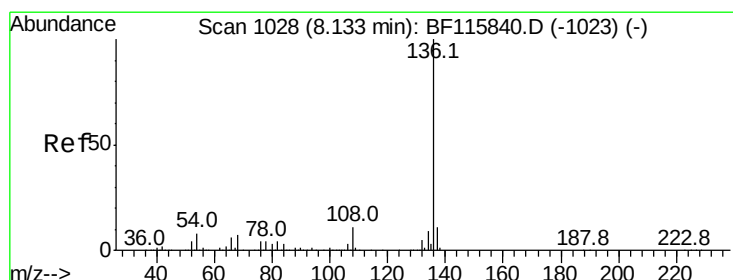
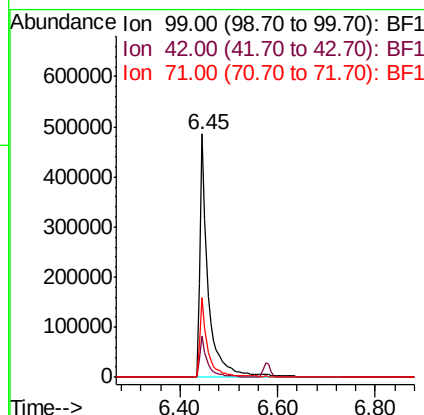
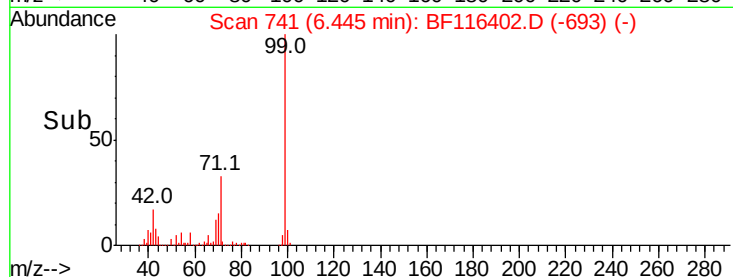
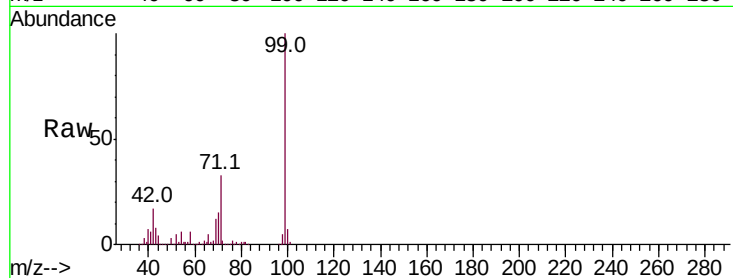
ClientSampled :

TP-20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 590723 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.9  | 13.8  | 20.8   |
| 71        | 32.6  | 27.3  | 40.9   |

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#21

Naphthalene-d8

Concen: 20.000 ng

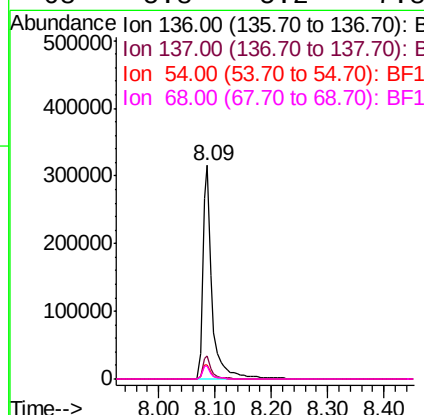
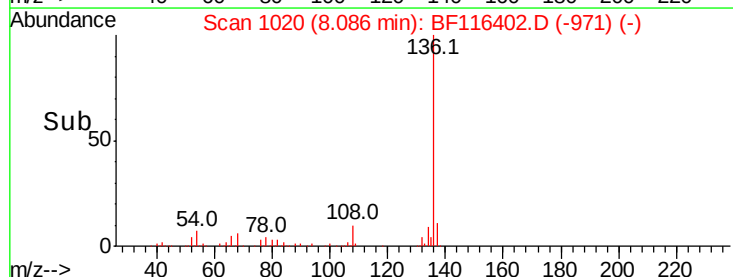
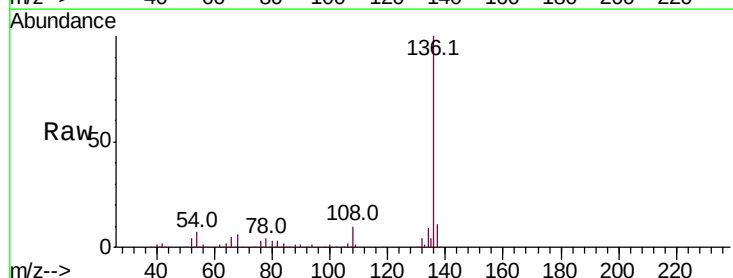
RT: 8.09 min Scan# 1020

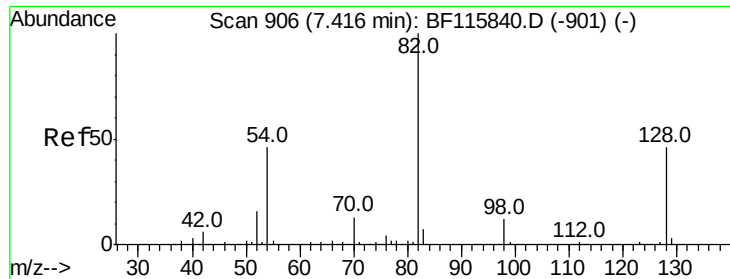
Delta R.T. -0.01 min

Lab File: BF116402.D

Acq: 19 Aug 2019 21:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 356508 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.9  | 9.0   | 13.4   |
| 54        | 6.6   | 5.8   | 8.6    |
| 68        | 5.8   | 5.2   | 7.8    |





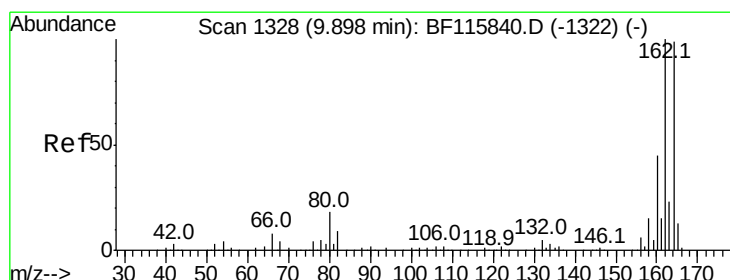
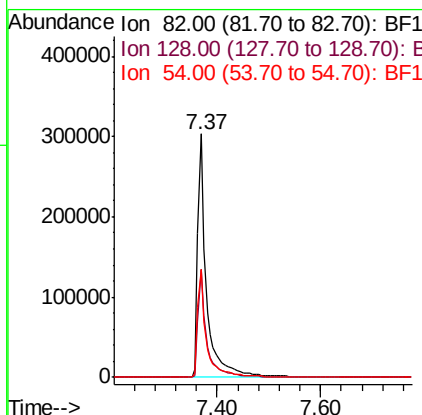
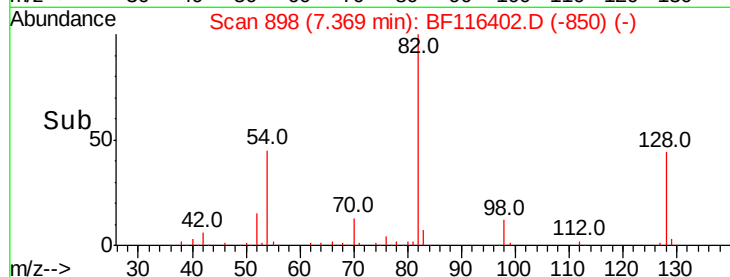
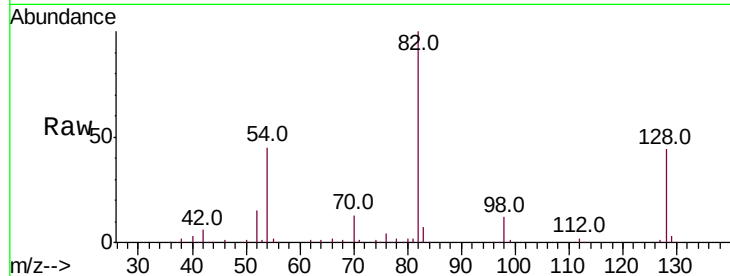
#23  
Nitrobenzene-d5  
Concen: 58.055 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.02 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

Instrument :  
BNA\_F  
ClientSampled :  
TP-20

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 44.1  | 36.5 | 54.7  |       |
| 54      | 44.5  | 36.0 | 54.0  |       |

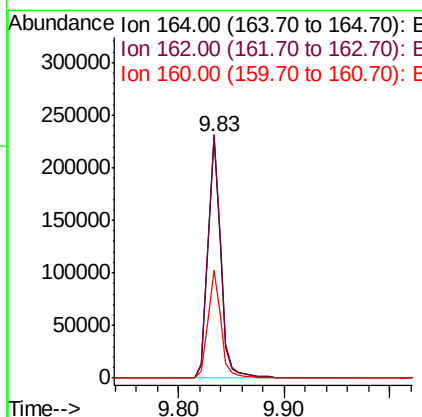
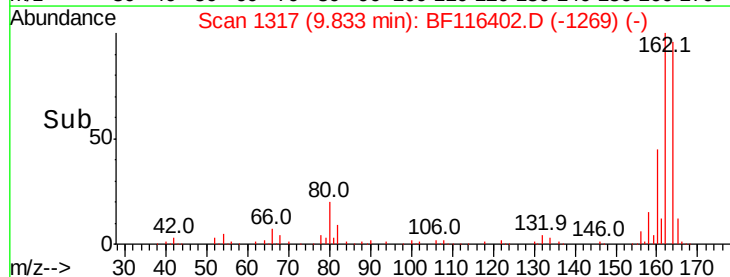
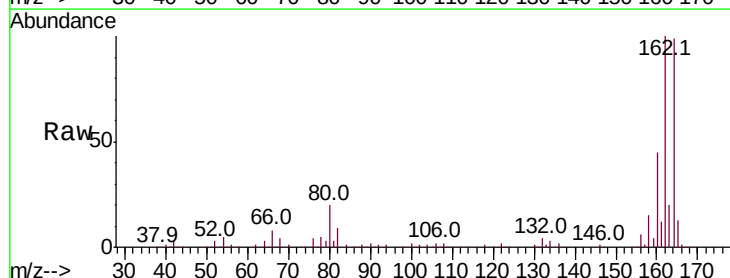
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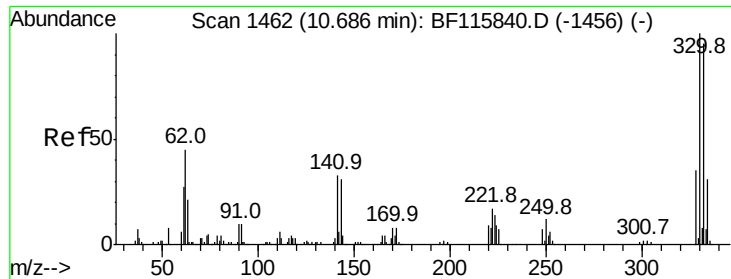
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.02 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 100.9 | 82.6 | 124.0 |       |
| 160     | 45.0  | 37.6 | 56.4  |       |





#42

2,4,6-Tribromophenol

Concen: 81.951 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF116402.D

Acq: 19 Aug 2019 21:55

Instrument :

BNA\_F

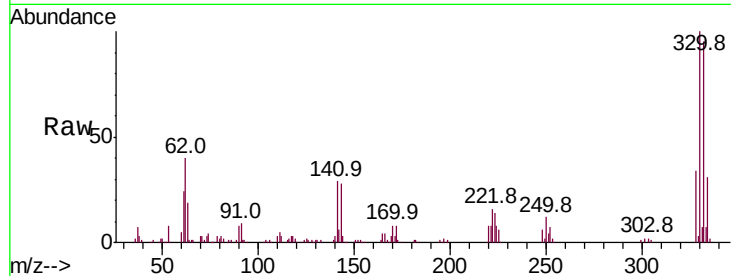
ClientSampled :

TP-20

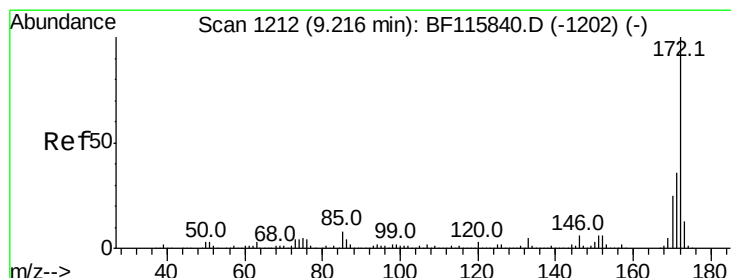
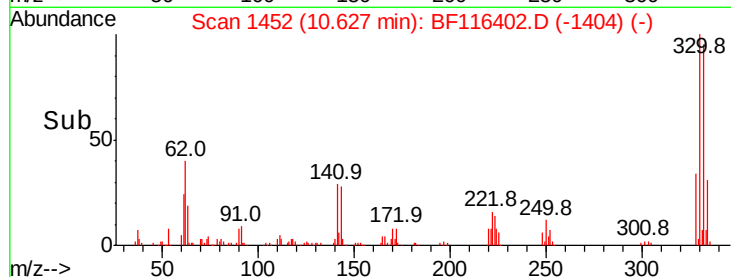
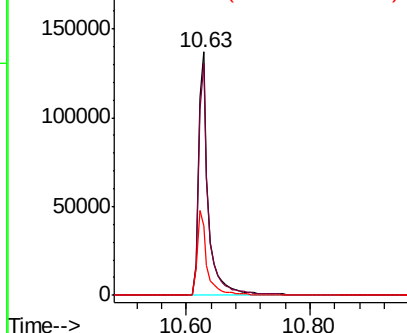
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 154153 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.6  | 76.8  | 115.2  |
| 141       | 34.3  | 26.3  | 39.5   |

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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: 57.721 ng

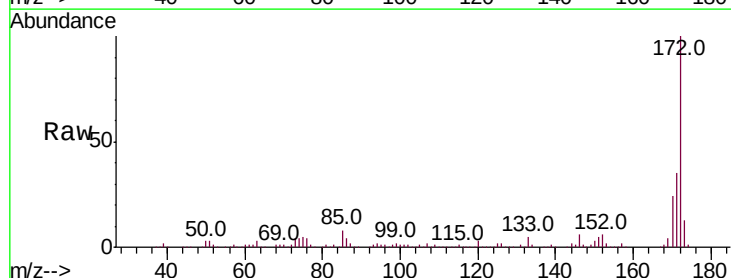
RT: 9.15 min Scan# 1201

Delta R.T. -0.02 min

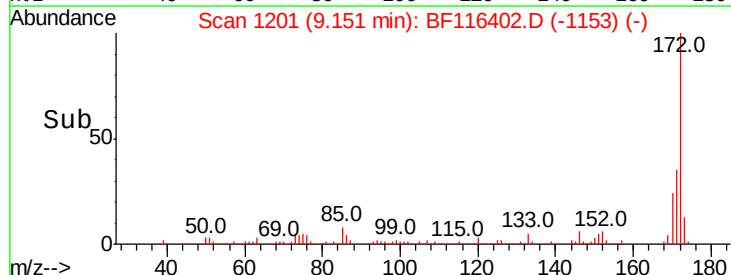
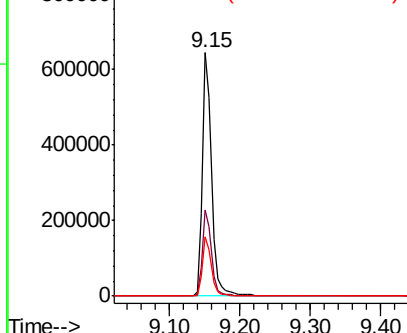
Lab File: BF116402.D

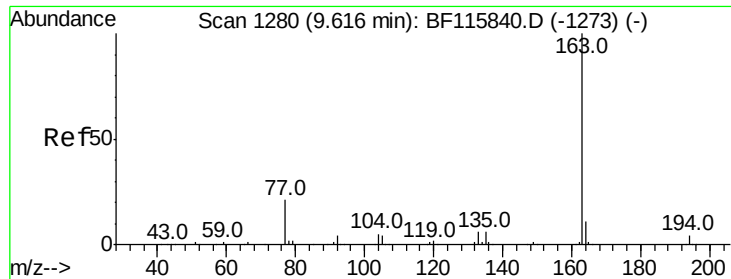
Acq: 19 Aug 2019 21:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 597880 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.3  | 29.6  | 44.4   |
| 170       | 24.4  | 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





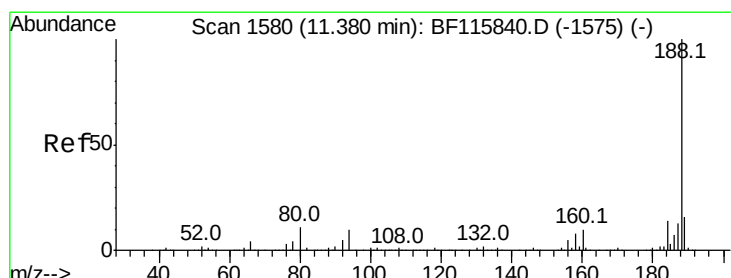
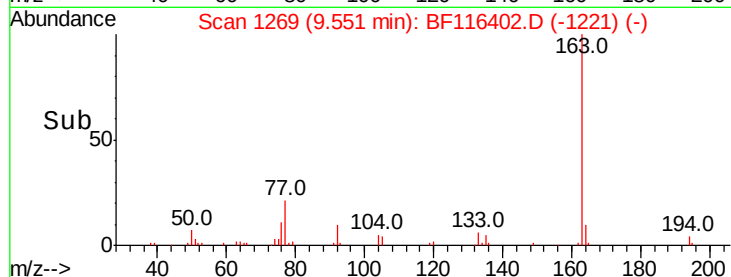
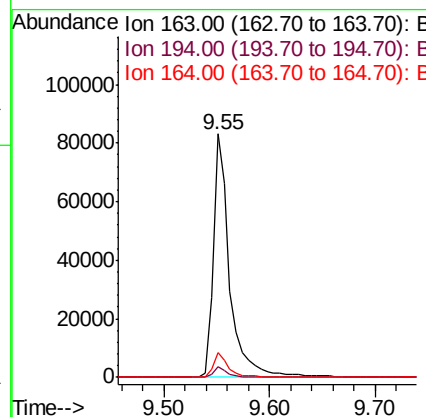
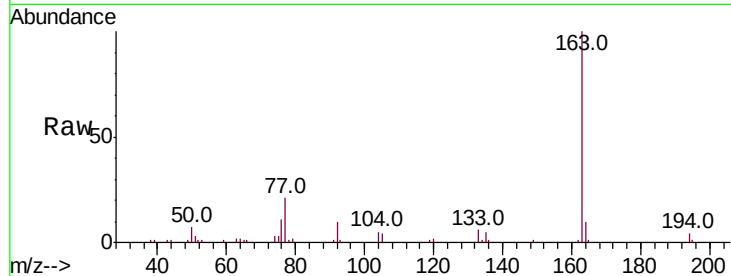
#50  
Dimethylphthalate  
Concen: 6.788 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.02 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

Instrument :  
BNA\_F  
ClientSampled :  
TP-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.0   | 4.6   |
| 164     | 10.2  | 8.4   | 12.6  |

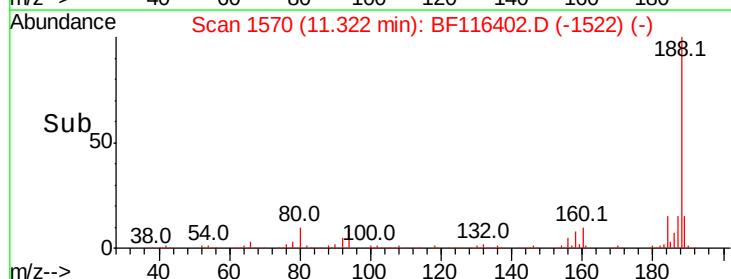
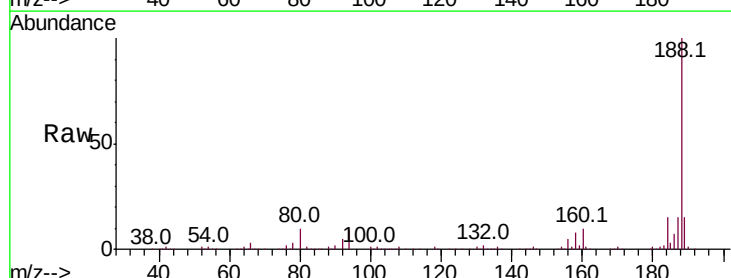
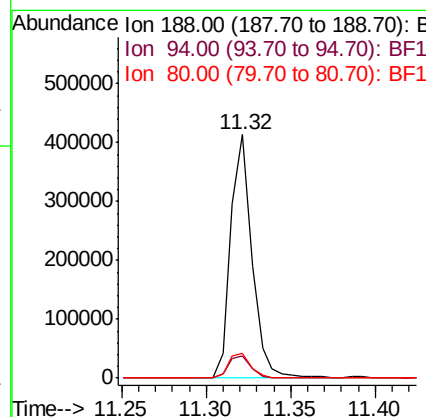
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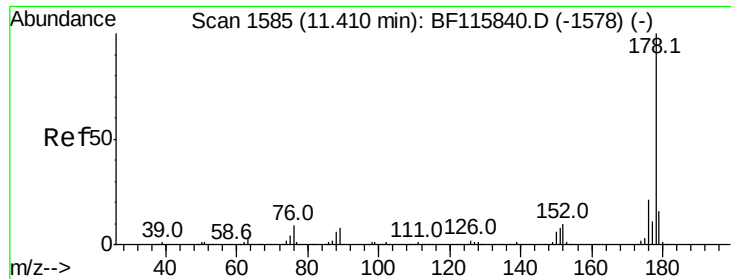
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.02 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.3   | 8.1   | 12.1  |
| 80      | 9.9   | 8.7   | 13.1  |





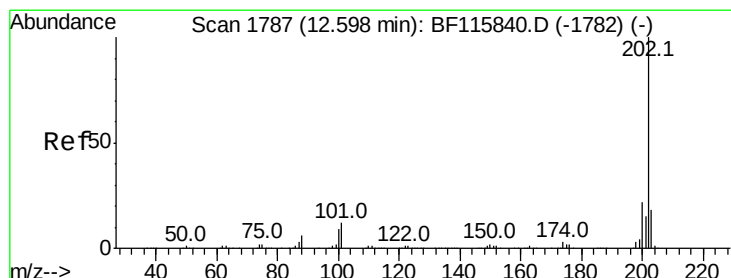
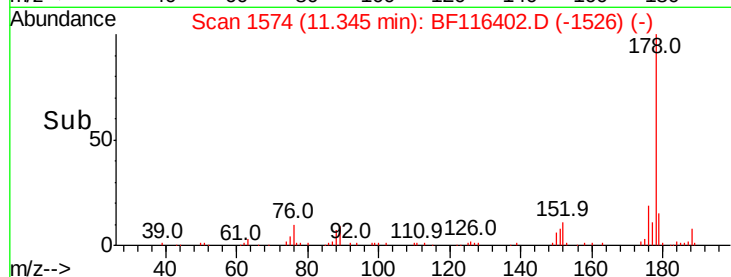
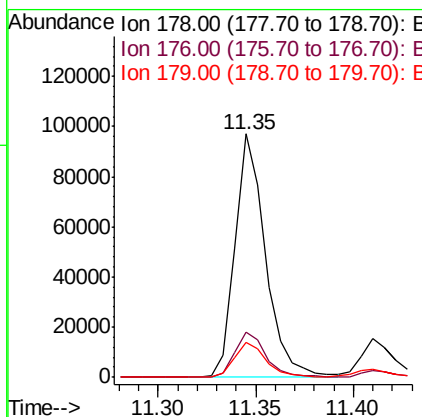
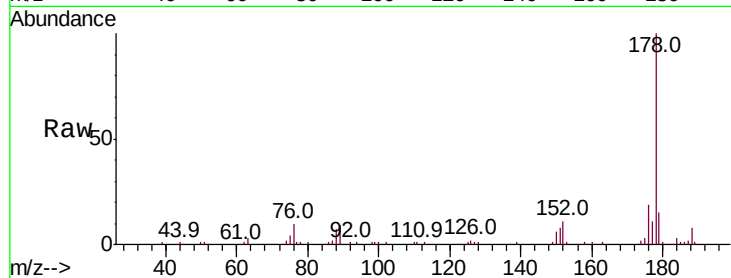
#71  
Phenanthrene  
Concen: 5.612 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.02 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 16.6  | 24.8  |
| 179     | 14.6  | 12.5  | 18.7  |

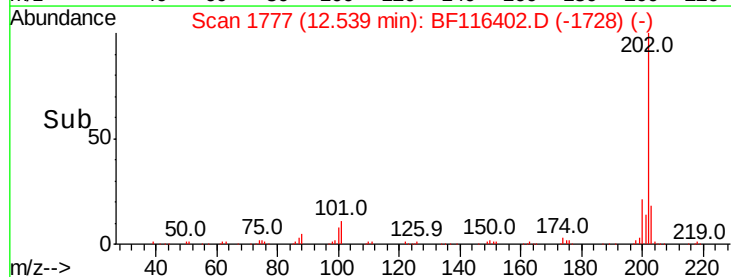
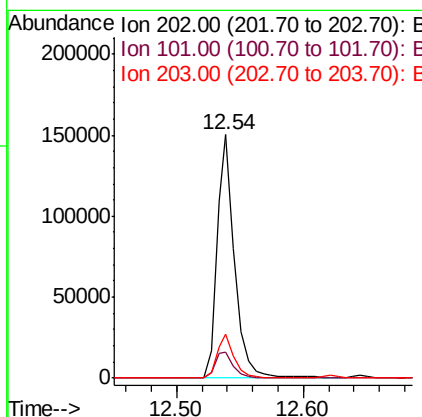
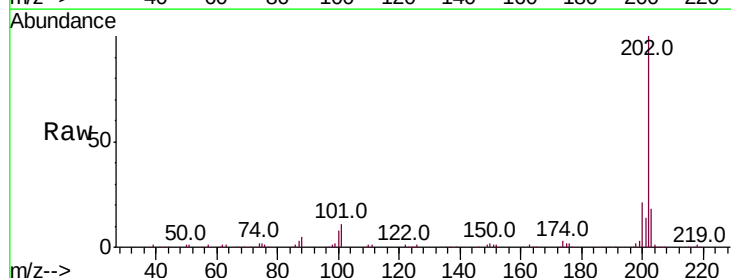
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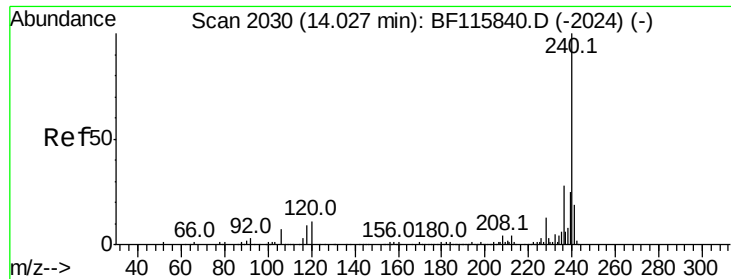


#75  
Fluoranthene  
Concen: 7.422 ng  
RT: 12.54 min Scan# 1777  
Delta R.T. -0.01 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.9  | 0.0   | 31.2  |
| 203     | 17.8  | 0.0   | 37.8  |







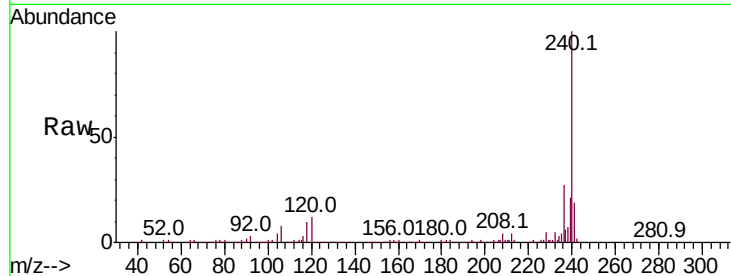
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.96 min Scan# 2019  
 Delta R.T. -0.02 min  
 Lab File: BF116402.D  
 Acq: 19 Aug 2019 21:55

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-20

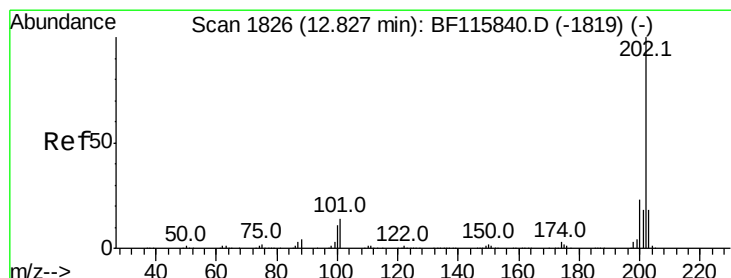
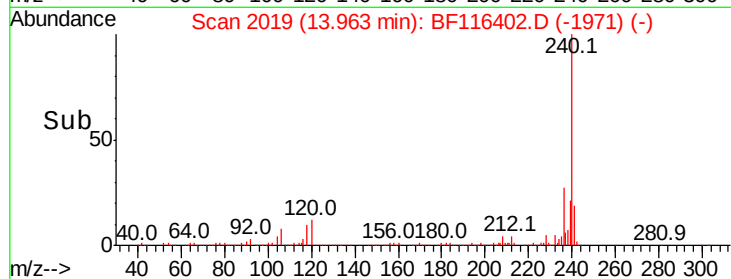
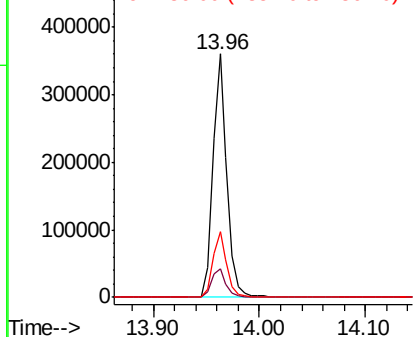
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 333534 |       |       |
| 120     | 11.7  | 10.7   | 16.1  |       |
| 236     | 27.0  | 22.2   | 33.2  |       |

Manual Integrations  
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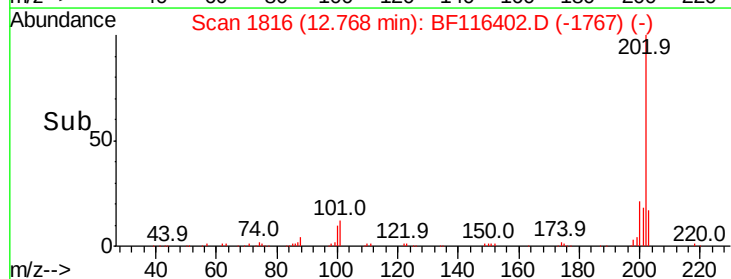
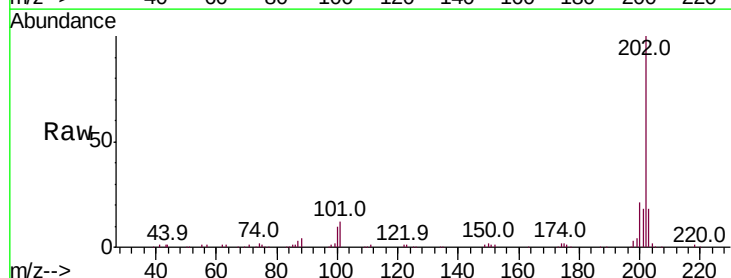
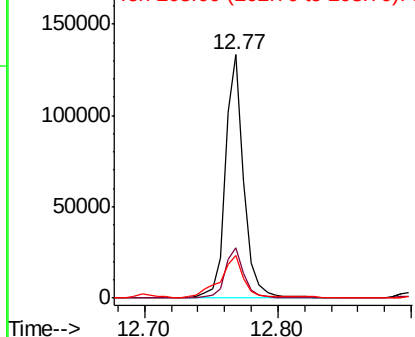
Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

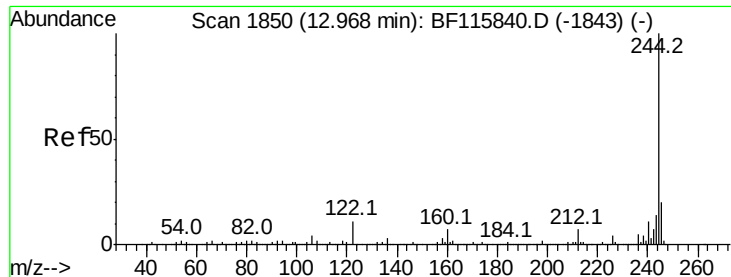


#78  
 Pyrene  
 Concen: 5.150 ng  
 RT: 12.77 min Scan# 1816  
 Delta R.T. -0.01 min  
 Lab File: BF116402.D  
 Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 129472 |       |       |
| 200     | 20.6  | 18.0   | 27.0  |       |
| 203     | 17.7  | 14.1   | 21.1  |       |

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





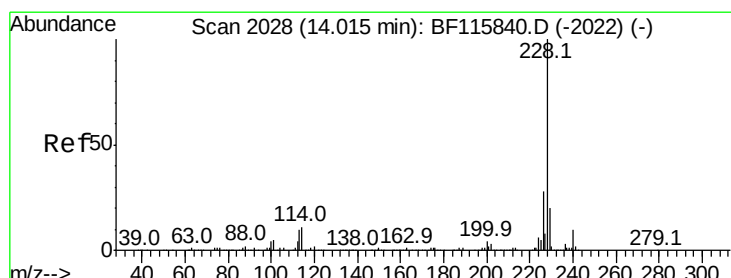
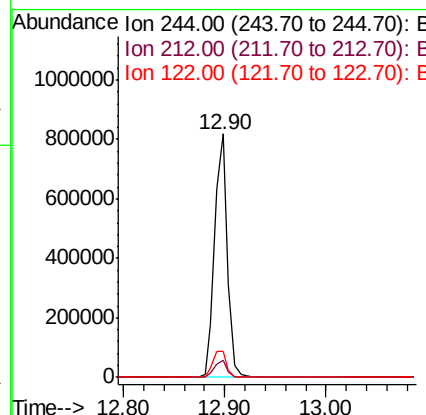
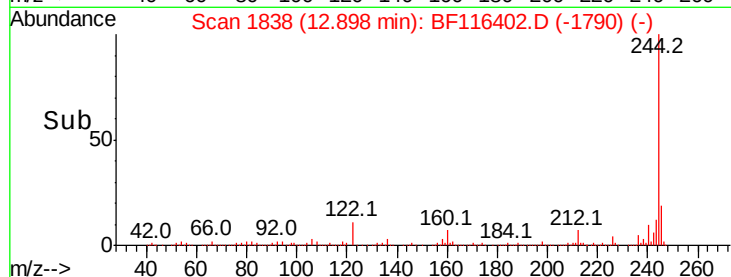
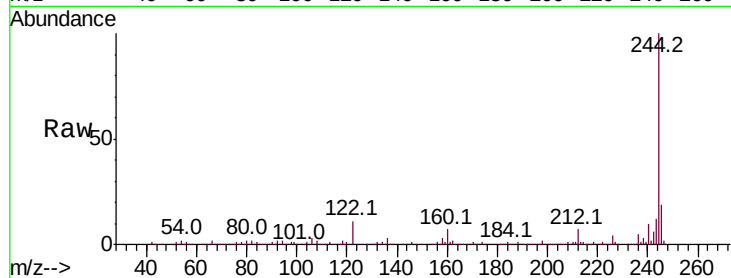
#79  
 Terphenyl-d14  
 Concen: 45.008 ng  
 RT: 12.90 min Scan# 1838  
 Delta R.T. -0.02 min  
 Lab File: BF116402.D  
 Acq: 19 Aug 2019 21:55

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-20

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

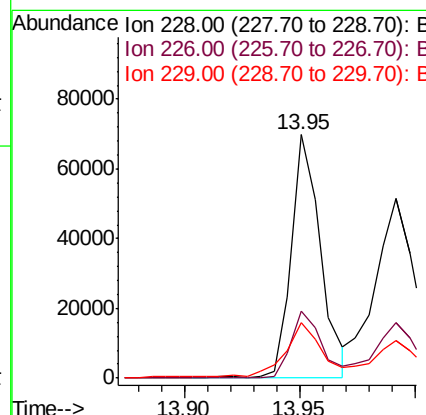
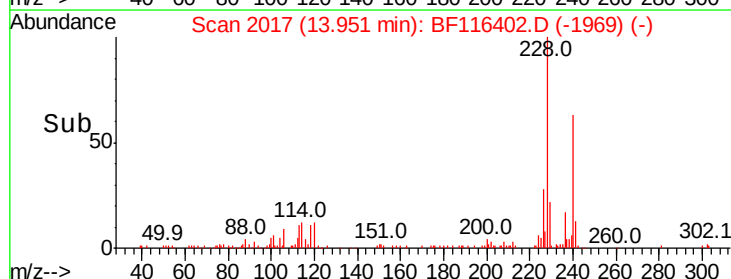
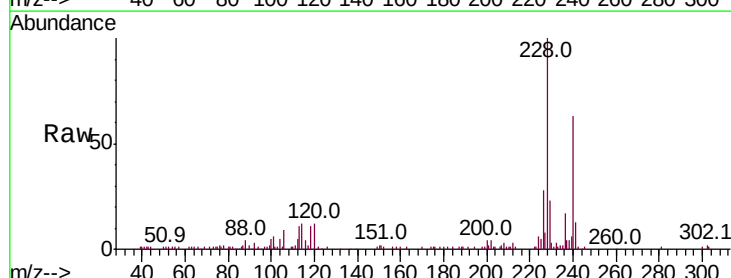
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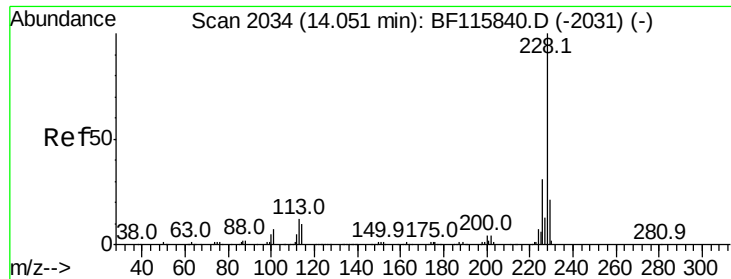
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#81  
 Benzo(a)anthracene  
 Concen: 2.886 ng  
 RT: 13.95 min Scan# 2017  
 Delta R.T. -0.02 min  
 Lab File: BF116402.D  
 Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.6  | 22.7  | 34.1  |
| 229     | 22.9  | 16.2  | 24.4  |





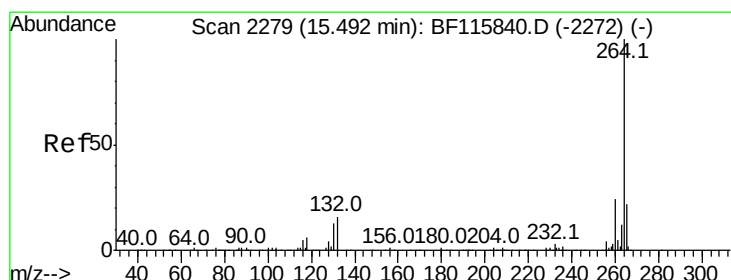
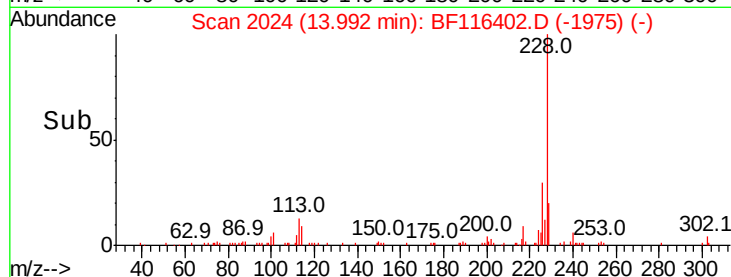
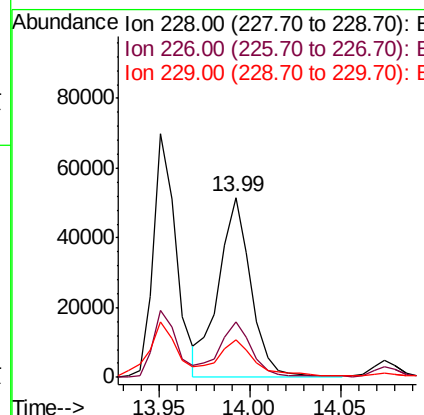
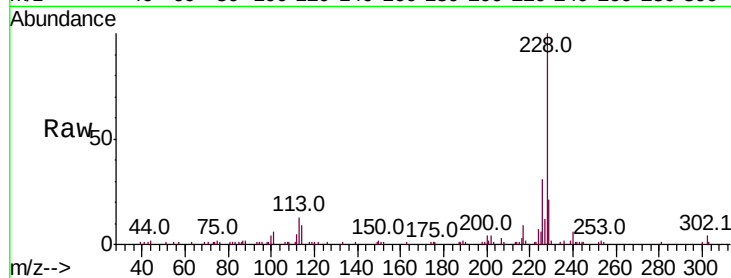
#83  
Chrysene  
Concen: 3.102 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.01 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
TP-20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 25.5  | 38.3  |
| 229     | 20.7  | 16.6  | 24.8  |

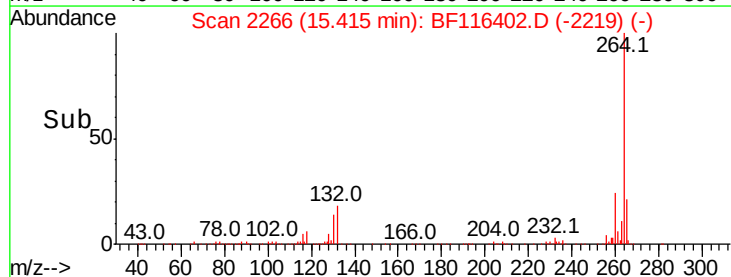
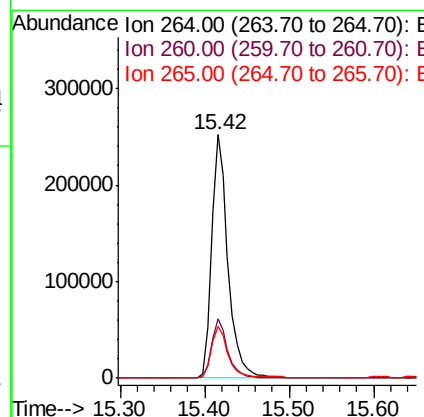
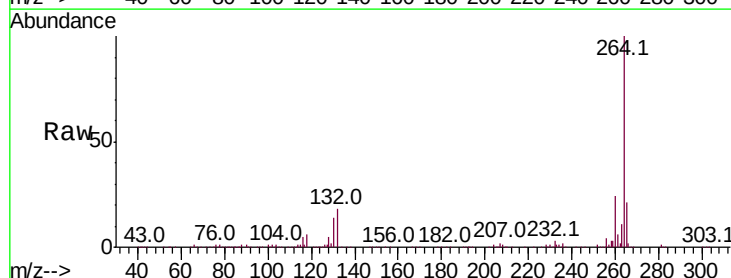
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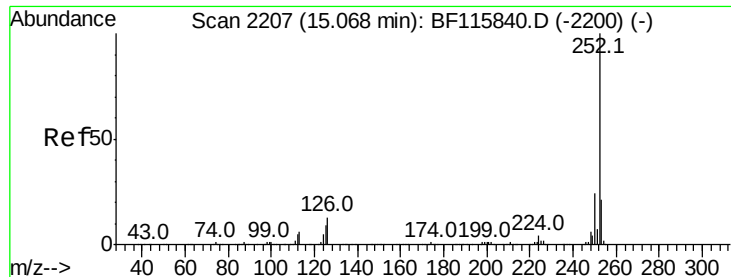
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2266  
Delta R.T. -0.02 min  
Lab File: BF116402.D  
Acq: 19 Aug 2019 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.7  | 29.5  |
| 265     | 21.1  | 17.4  | 26.0  |





#88

Benzo(b)fluoranthene

Concen: 3.286 ng

RT: 15.01 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BF116402.D

Acq: 19 Aug 2019 21:55

Instrument :

BNA\_F

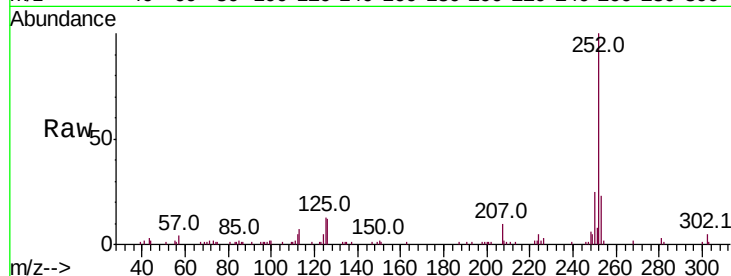
ClientSampleId :

TP-20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 64812 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.0  | 17.8  | 26.8  |
| 125       | 12.5  | 8.4   | 12.6  |

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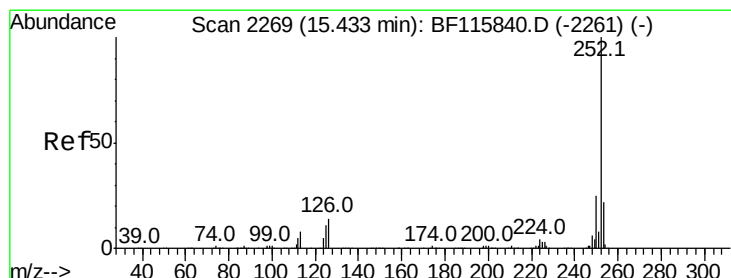
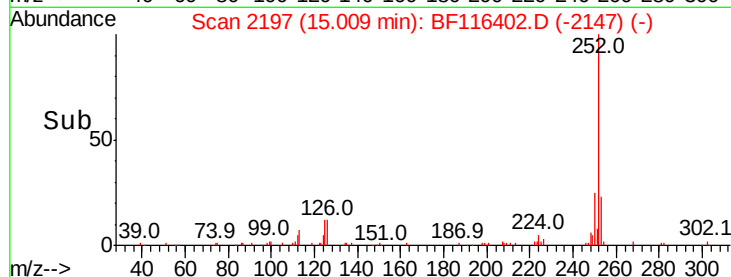
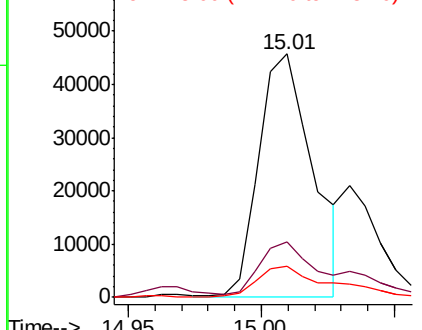


Abundance

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



#90

Benzo(a)pyrene

Concen: 2.520 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BF116402.D

Acq: 19 Aug 2019 21:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 44421 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 18.0  | 27.0  |
| 125       | 9.9   | 8.9   | 13.3  |

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

