

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\  
 Data File : BF120502.D  
 Acq On : 2 Jun 2020 18:35  
 Operator : JU/CG  
 Sample : L2798-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM98-COMP-2020-0-6

Manual Integrations  
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Quant Time: Jun 02 19:34:49 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 02 11:37:51 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 176454   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.13  | 136  | 601451   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.88  | 164  | 268019   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.37 | 188  | 461163   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.01 | 240  | 368118   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.47 | 264  | 317484   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 667919   | 72.14  | ng    | 0.00     |
| 7) Phenol-d6                | 6.48  | 99   | 825912   | 72.37  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 576646   | 62.72  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 203395   | 81.90  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1066208  | 67.50  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.96 | 244  | 1053612  | 63.69  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.59  | 163  | 190693   | 11.381 | ng    | 99       |
| 71) Phenanthrene            | 11.39 | 178  | 160577   | 7.902  | ng    | 98       |
| 72) Anthracene              | 11.44 | 178  | 50020    | 2.453  | ng    | 97       |
| 75) Fluoranthene            | 12.58 | 202  | 377040   | 17.244 | ng    | 99       |
| 78) Pyrene                  | 12.81 | 202  | 371744   | 14.521 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.00 | 228  | 199293   | 10.101 | ng    | 97       |
| 83) Chrysene                | 14.04 | 228  | 188318   | 9.105  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.93 | 276  | 103131   | 5.939  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.04 | 252  | 255584m  | 14.494 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.07 | 252  | 59614m   | 3.621  | ng    |          |
| 90) Benzo(a)pyrene          | 15.41 | 252  | 158796   | 10.295 | ng    | 98       |
| 92) Benzo(a,h,i)perylene    | 17.37 | 276  | 97295    | 6.968  | ng    | 97       |

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

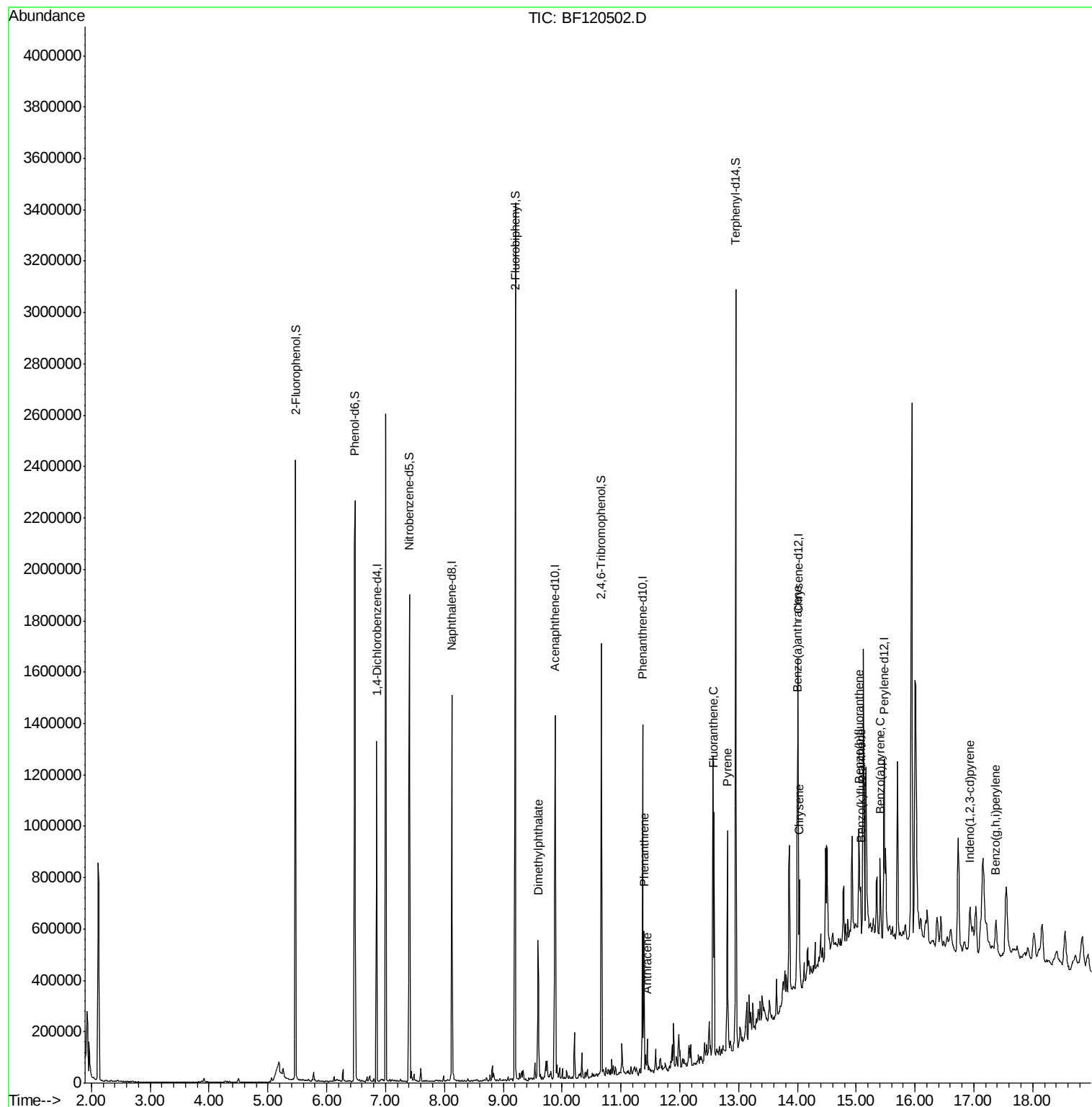
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\  
Data File : BF120502.D  
Acq On : 2 Jun 2020 18:35  
Operator : JU/CG  
Sample : L2798-08  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

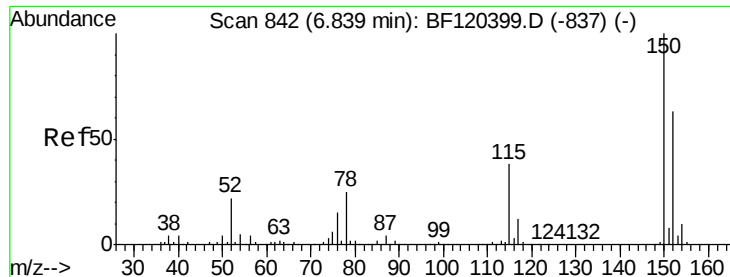
Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

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Quant Time: Jun 02 19:34:49 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 02 11:37:51 2020  
Response via : Initial Calibration





#1

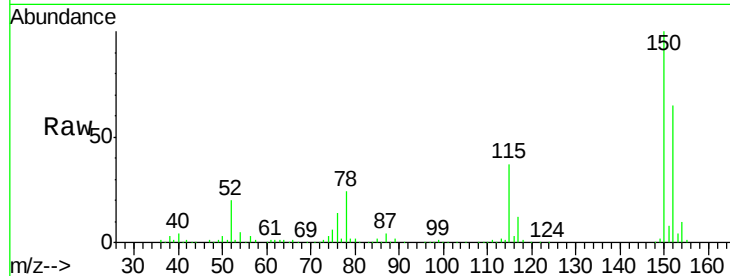
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 843  
Delta R.T. -0.00 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.0 | 126.7 | 190.1 |
| 115     | 56.9  | 46.2  | 69.2  |

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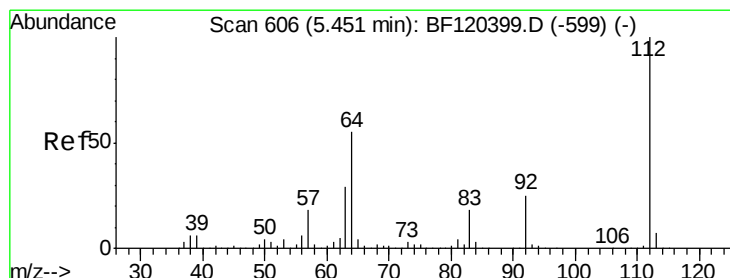
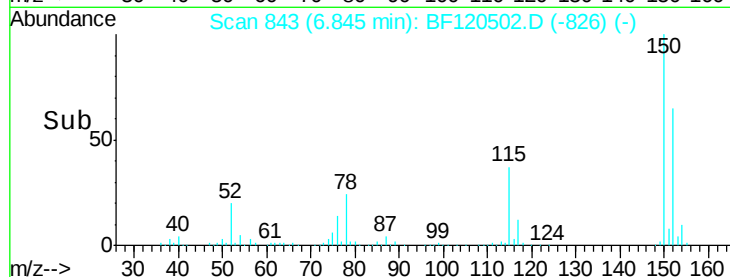
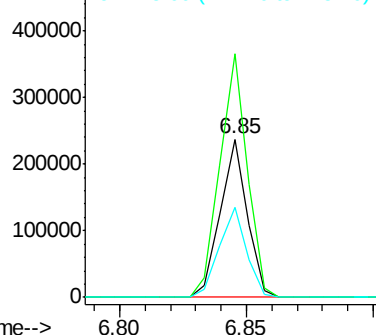


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

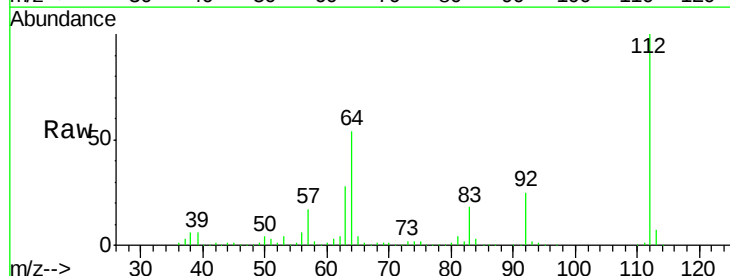
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 72.137 ng  
RT: 5.47 min Scan# 609  
Delta R.T. 0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.9  | 46.3  | 69.5  |
| 63      | 28.1  | 24.2  | 36.2  |

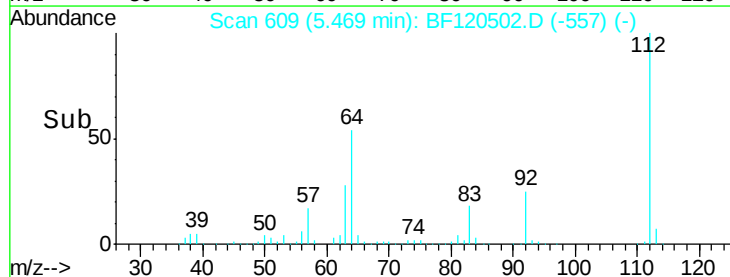
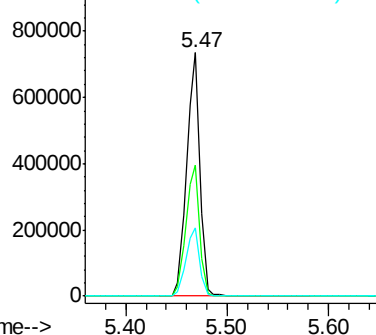


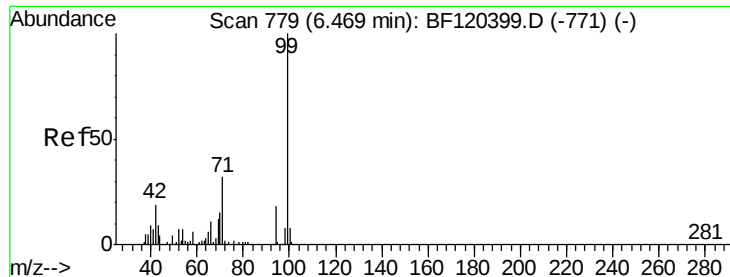
Abundance

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: 72.369 ng

RT: 6.48 min Scan# 781

Delta R.T. -0.00 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

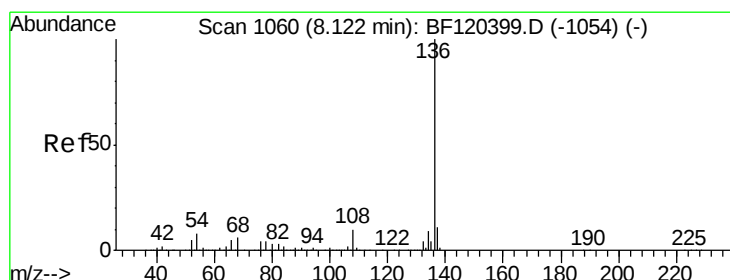
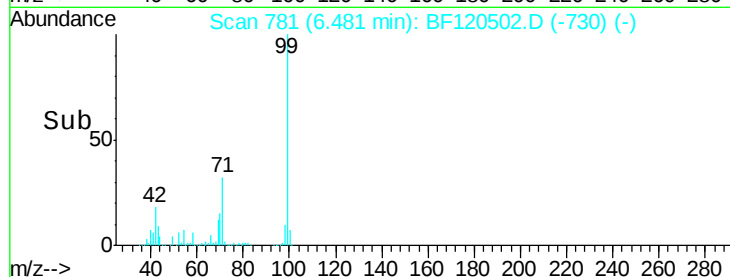
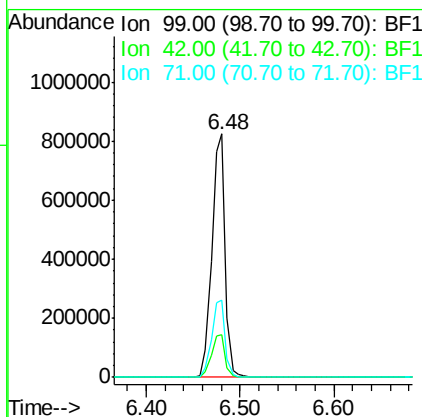
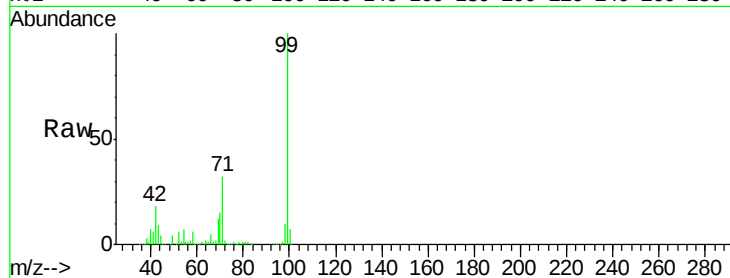
ClientSampleId :

NM98-COMP-2020-0-6

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 825912 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 17.8  | 15.1  | 22.7   |
| 71       | 31.8  | 26.2  | 39.4   |

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#21

Naphthalene-d8

Concen: 20.000 ng

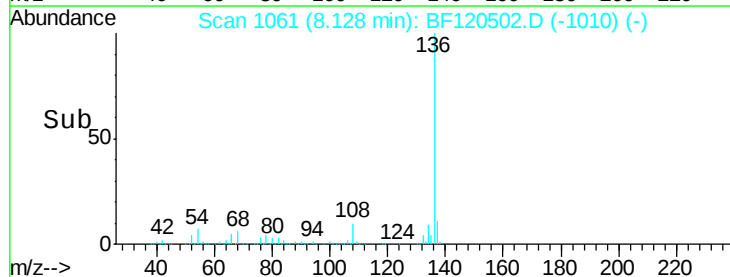
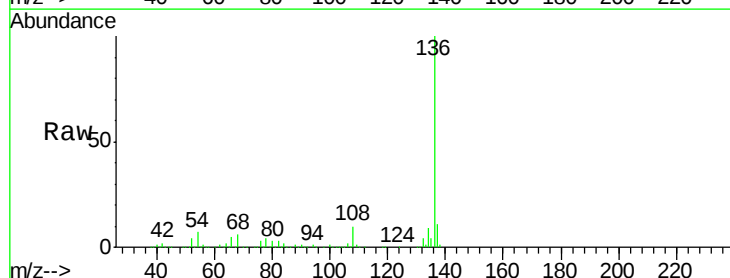
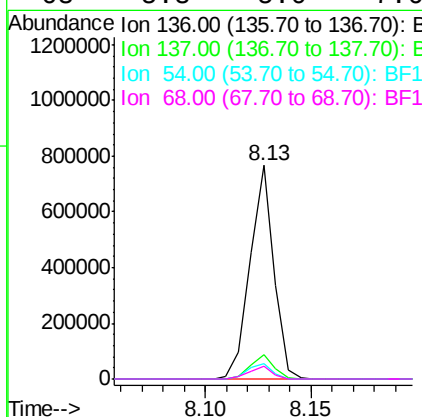
RT: 8.13 min Scan# 1061

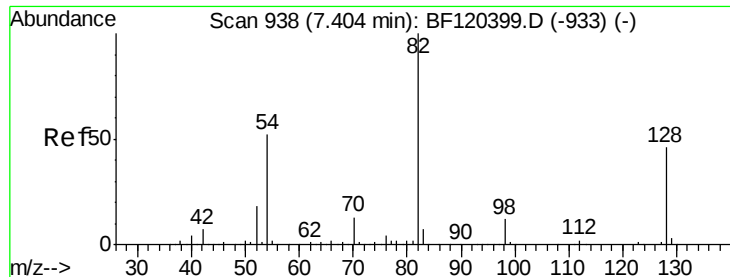
Delta R.T. -0.00 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 601451 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.0   | 13.6   |
| 54       | 7.4   | 6.2   | 9.4    |
| 68       | 5.8   | 5.0   | 7.6    |





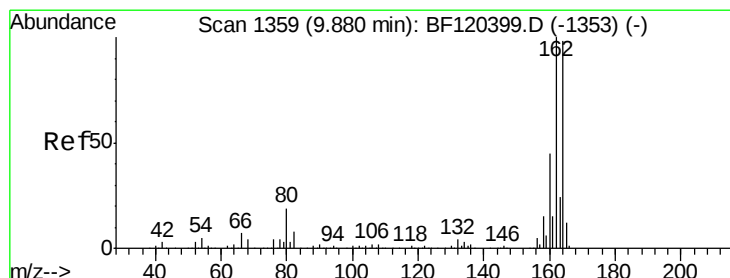
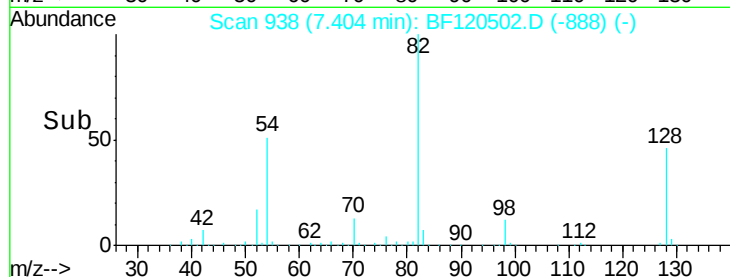
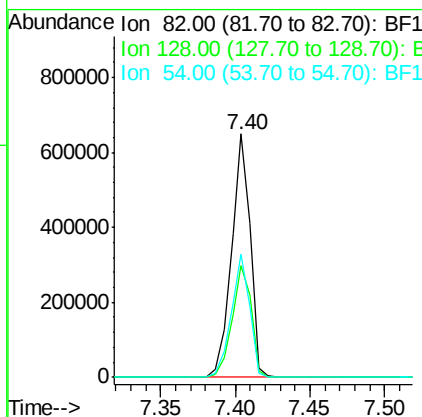
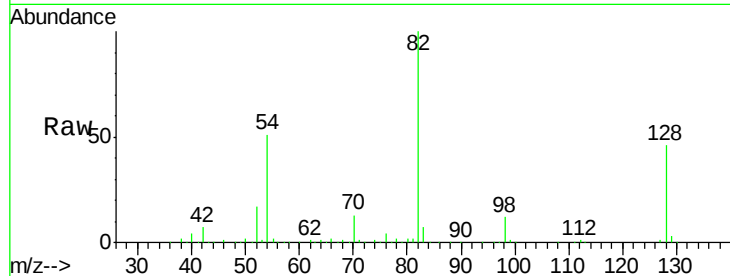
#23  
 Nitrobenzene-d5  
 Concen: 62.715 ng  
 RT: 7.40 min Scan# 938  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.1  | 37.0  | 55.6  |
| 54      | 50.8  | 41.0  | 61.4  |

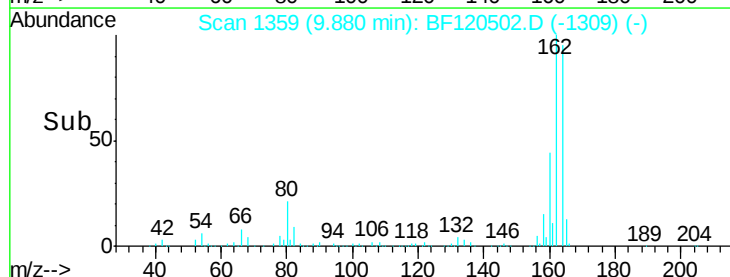
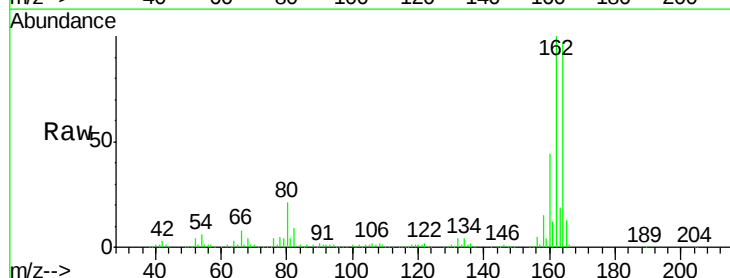
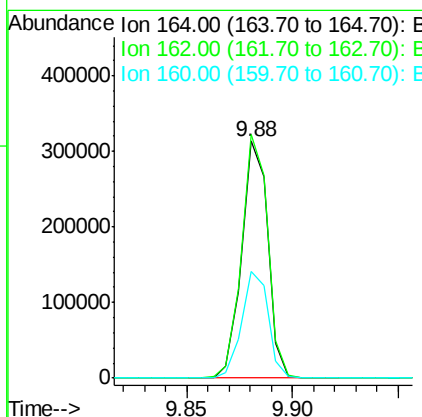
Manual Integrations  
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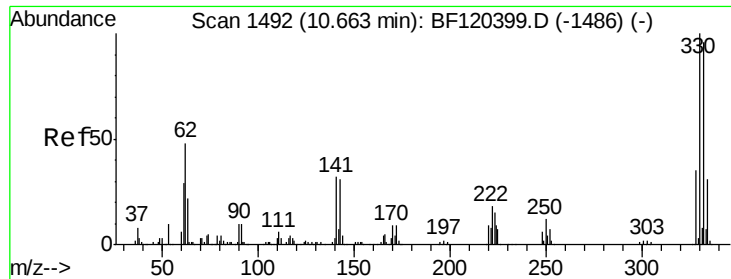
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.88 min Scan# 1359  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.7 | 81.9  | 122.9 |
| 160     | 45.1  | 37.4  | 56.0  |





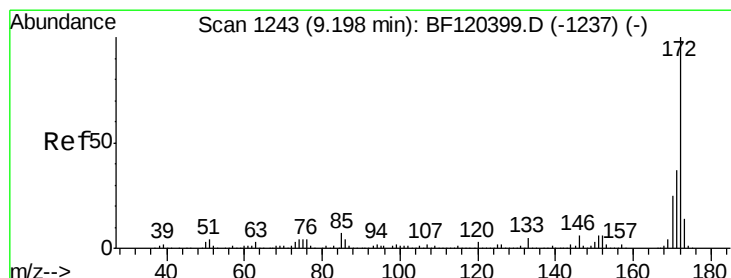
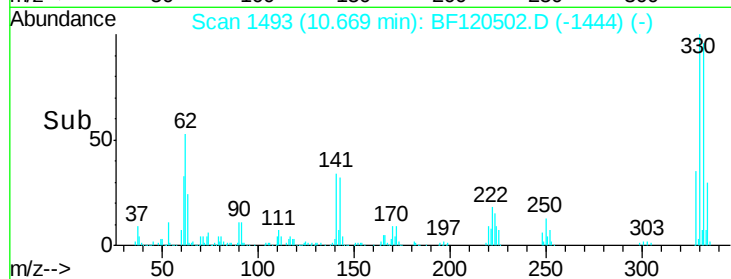
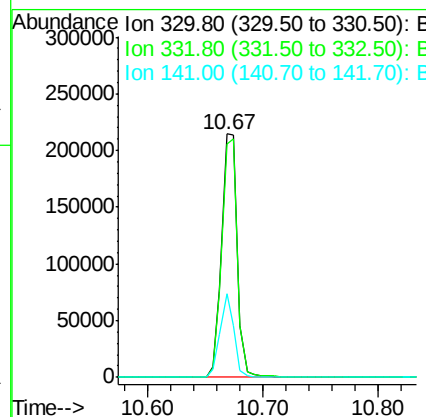
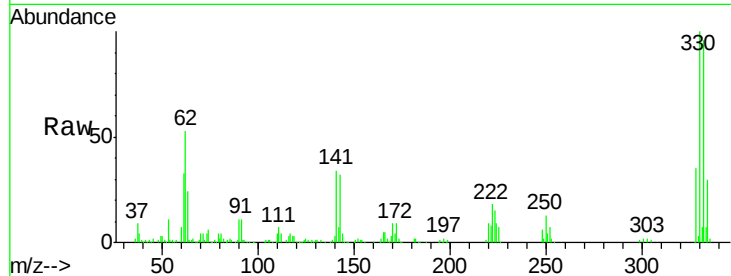
#42  
 2,4,6-Tribromophenol  
 Concen: 81.905 ng  
 RT: 10.67 min Scan# 1493  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 76.8  | 115.2 |
| 141     | 30.5  | 23.9  | 35.9  |

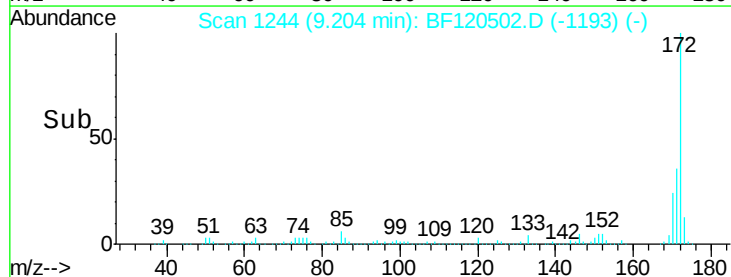
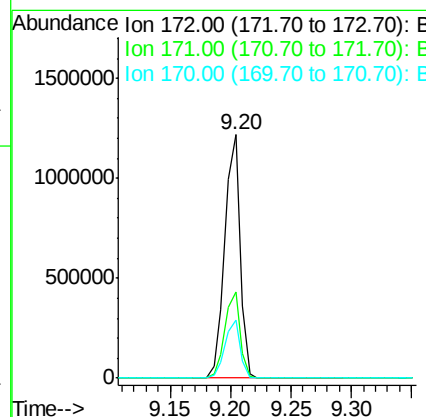
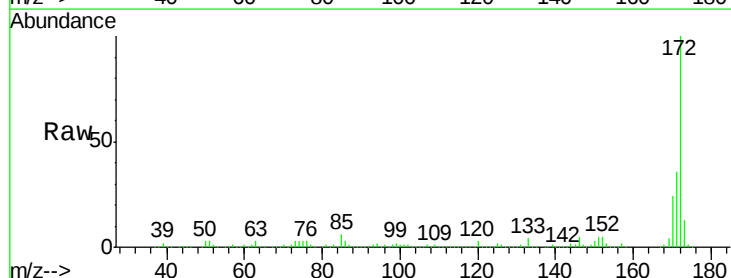
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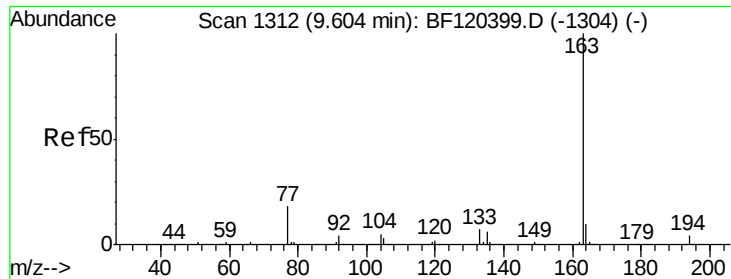
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#45  
 2-Fluorobiphenyl  
 Concen: 67.496 ng  
 RT: 9.20 min Scan# 1244  
 Delta R.T. -0.00 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.4  | 44.2  |
| 170     | 23.8  | 19.9  | 29.9  |





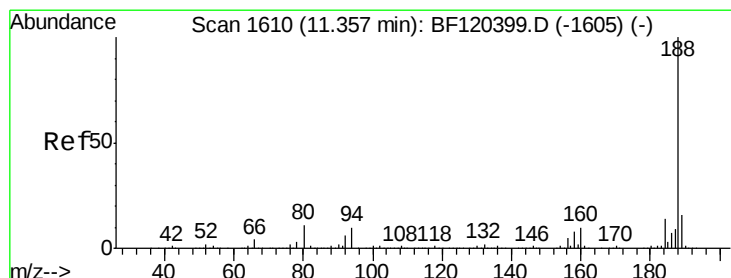
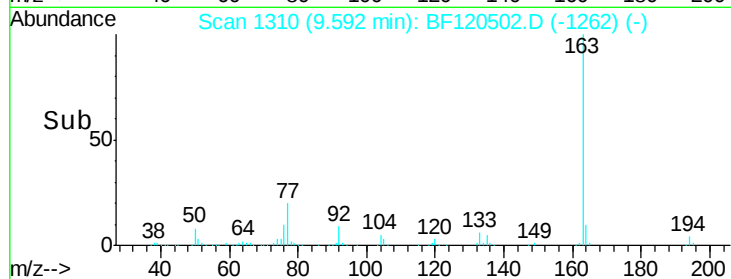
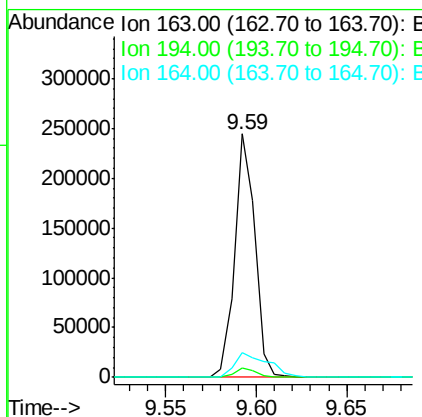
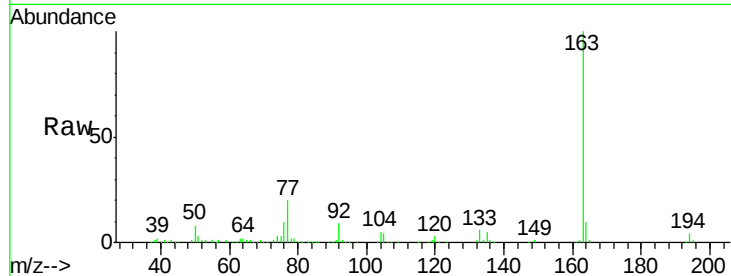
#50  
Dimethylphthalate  
Concen: 11.381 ng  
RT: 9.59 min Scan# 1310  
Delta R.T. -0.02 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 190693 |       |       |
| 194     | 3.6   |        | 3.3   | 4.9   |
| 164     | 10.1  |        | 8.2   | 12.2  |

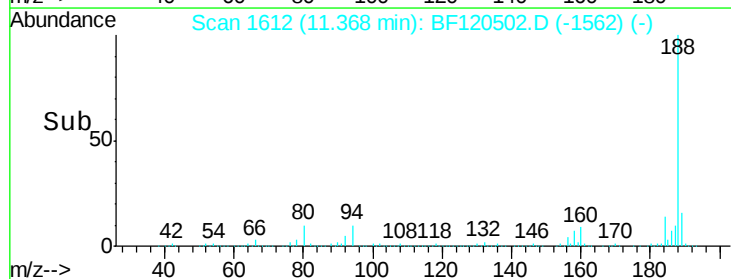
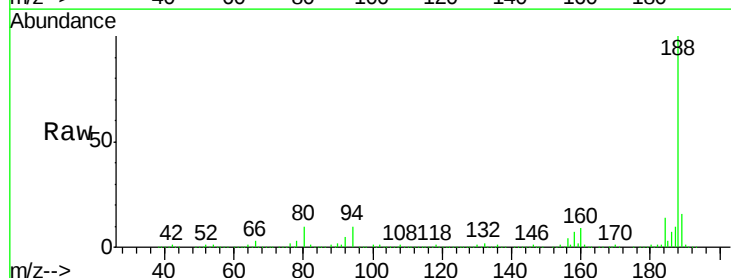
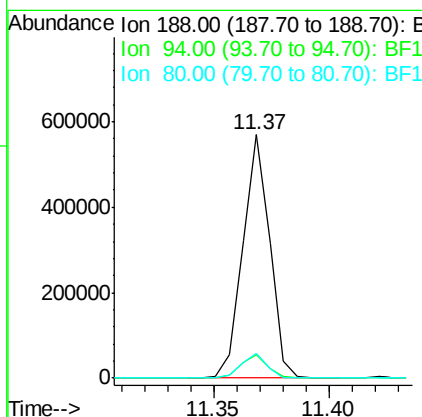
Manual Integrations  
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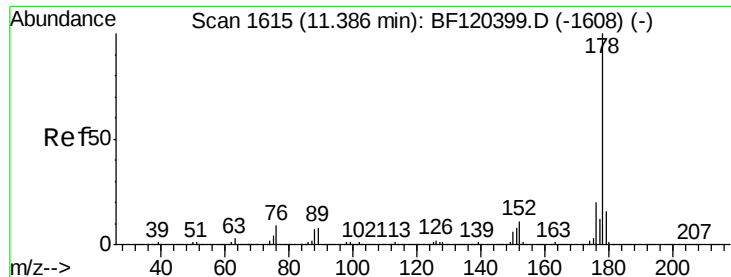
mohammad  
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.37 min Scan# 1612  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 461163 |       |       |
| 94      | 9.5   |        | 6.6   | 10.0  |
| 80      | 10.2  |        | 7.1   | 10.7  |





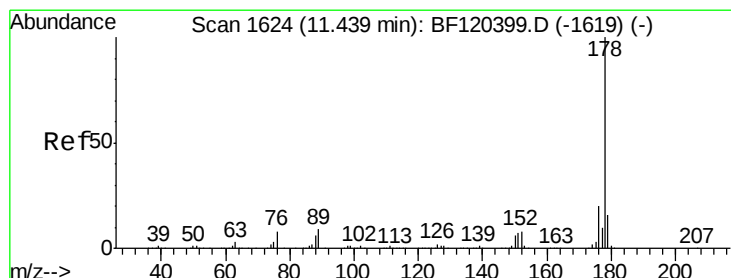
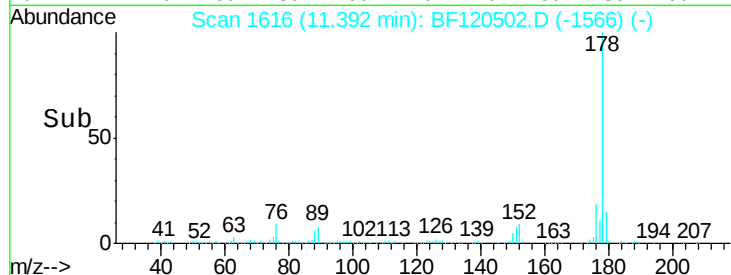
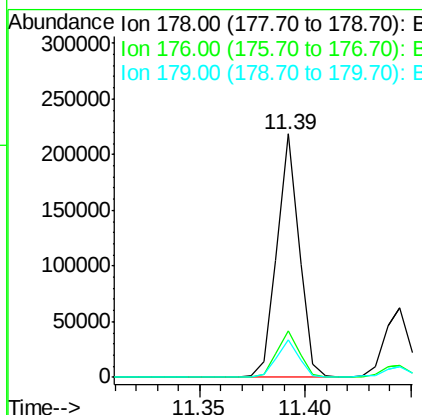
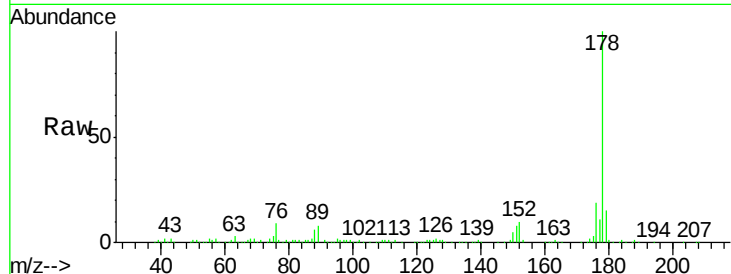
#71  
Phenanthrene  
Concen: 7.902 ng  
RT: 11.39 min Scan# 1616  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 16.2  | 24.2  |
| 179     | 15.3  | 12.8  | 19.2  |

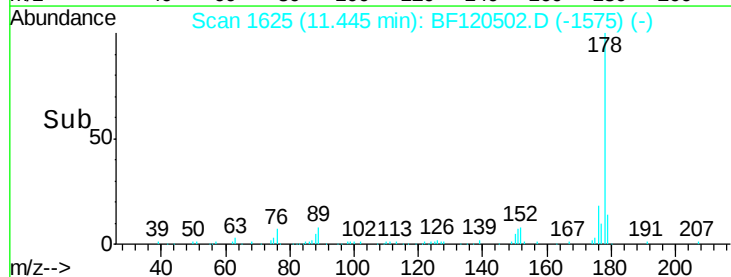
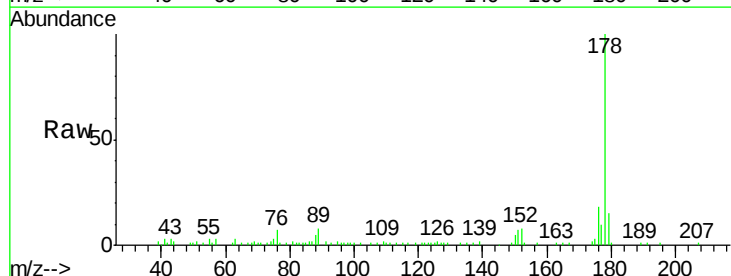
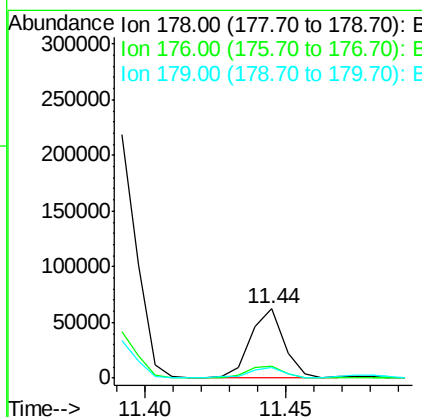
Manual Integrations  
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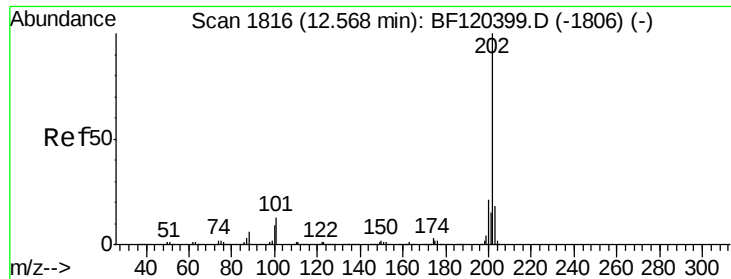
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#72  
Anthracene  
Concen: 2.453 ng  
RT: 11.44 min Scan# 1625  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 15.9  | 23.9  |
| 179     | 14.7  | 12.7  | 19.1  |





#75

Fluoranthene

Concen: 17.244 ng

RT: 12.58 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

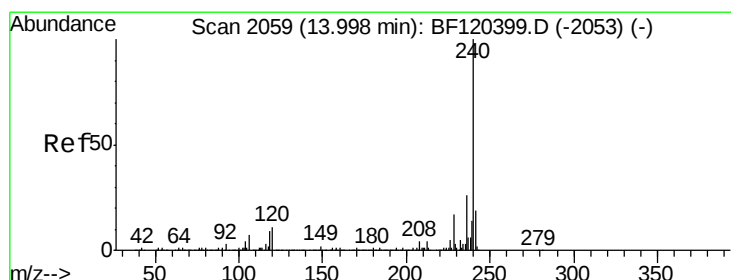
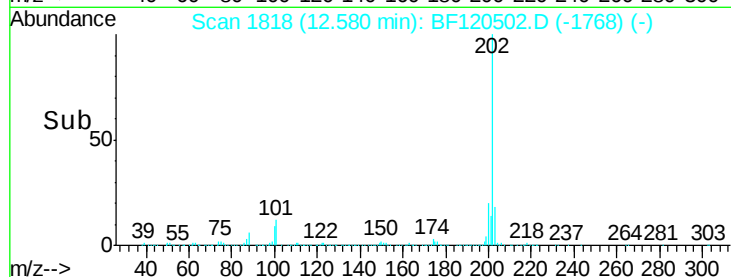
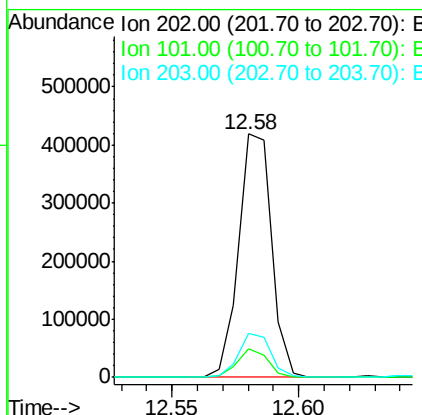
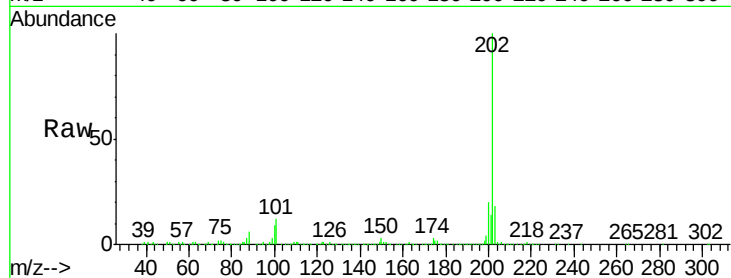
ClientSampleId :

NM98-COMP-2020-0-6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 377040 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.9  | 0.0   | 31.4   |
| 203       | 18.1  | 0.0   | 38.8   |

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#76

Chrysene-d12

Concen: 20.000 ng

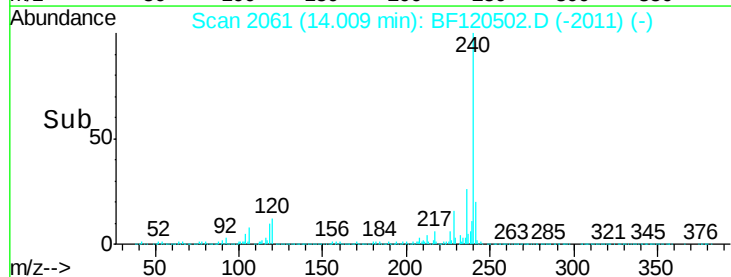
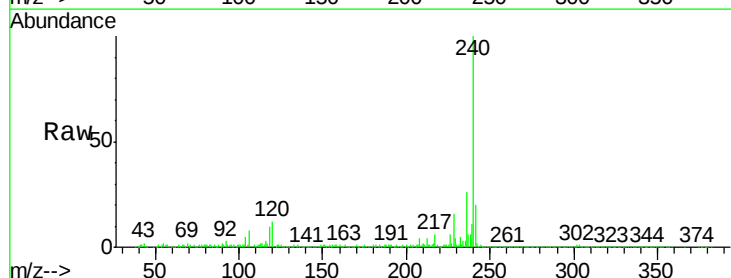
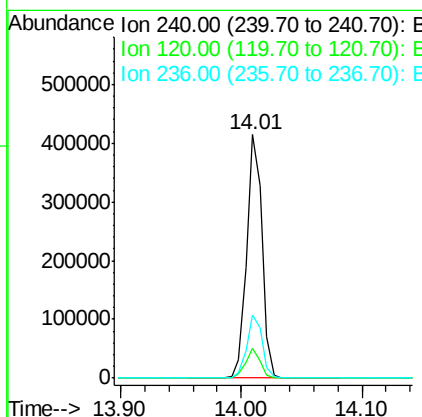
RT: 14.01 min Scan# 2061

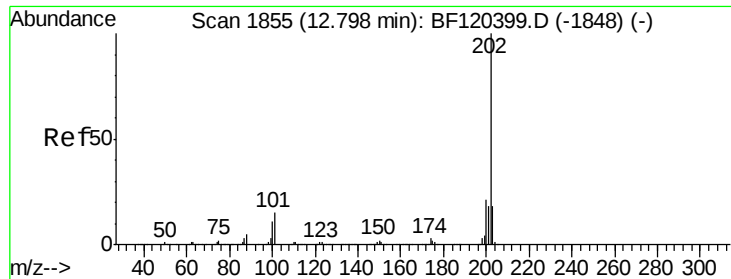
Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 368118 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.5  | 9.9   | 14.9   |
| 236       | 25.9  | 21.0  | 31.6   |





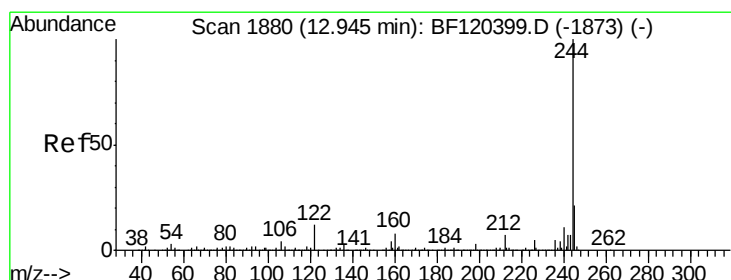
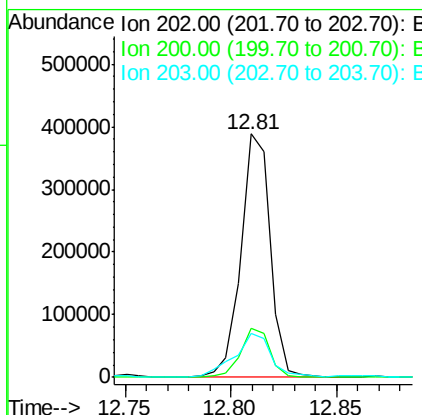
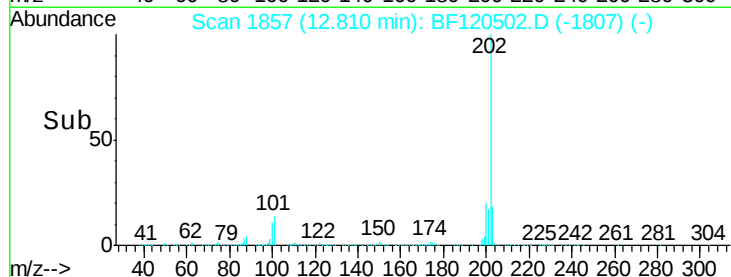
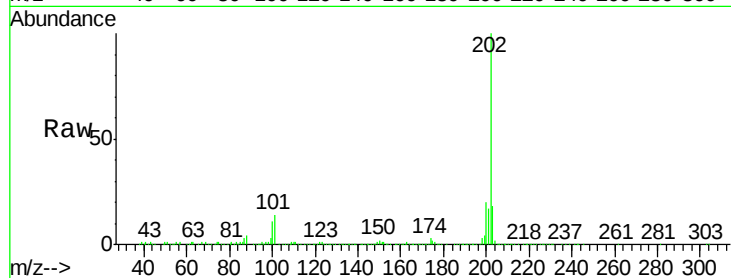
#78  
Pvrene  
Concen: 14.521 ng  
RT: 12.81 min Scan# 1857  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.9  | 17.0  | 25.6  |
| 203     | 17.9  | 14.6  | 22.0  |

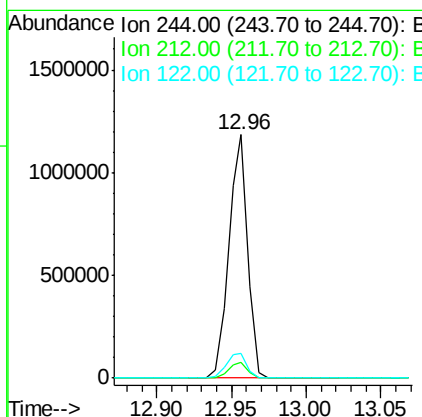
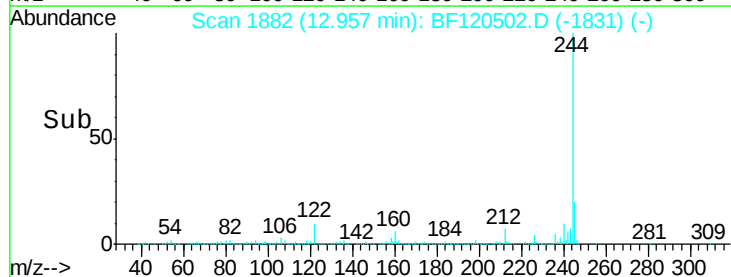
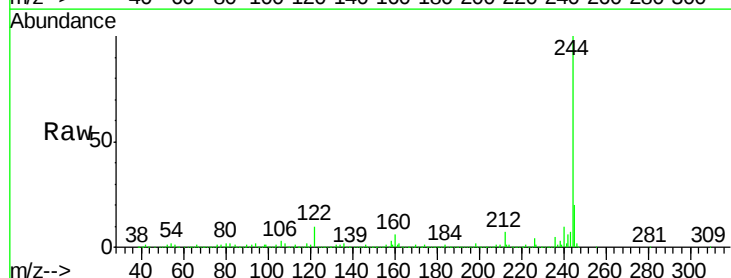
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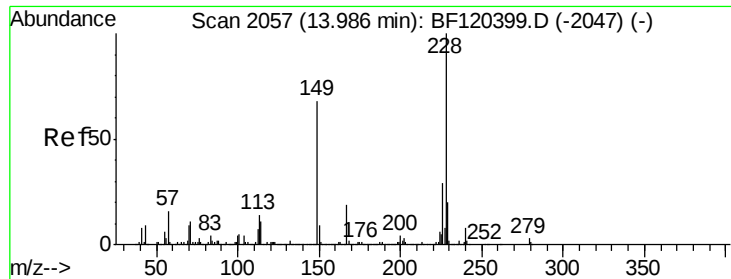
mohammad  
6/3/2020 4:36:28 PM



#79  
Terphenyl-d14  
Concen: 63.690 ng  
RT: 12.96 min Scan# 1882  
Delta R.T. -0.00 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.8   | 8.8   |
| 122     | 10.4  | 8.7   | 13.1  |





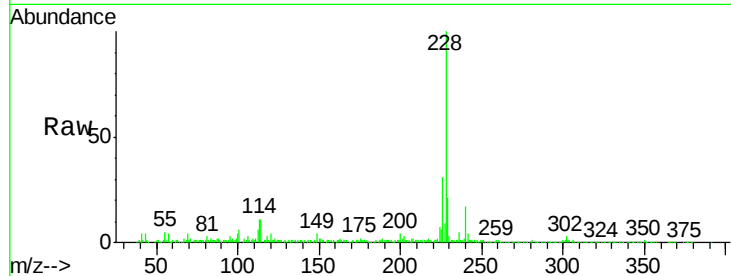
#81  
Benzo(a)anthracene  
Concen: 10.101 ng  
RT: 14.00 min Scan# 2059  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

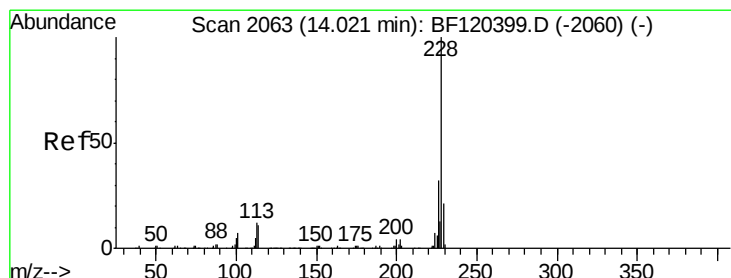
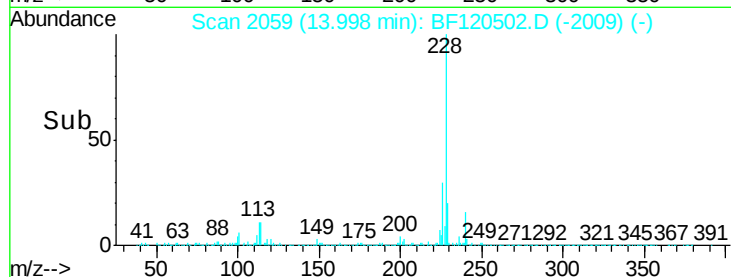
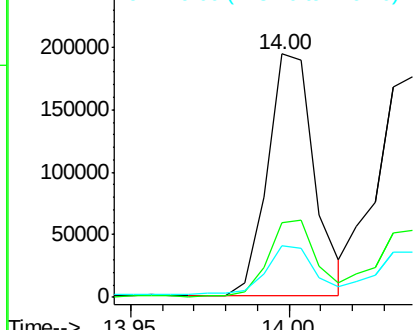
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 22.9  | 34.3  |
| 229     | 21.0  | 16.3  | 24.5  |

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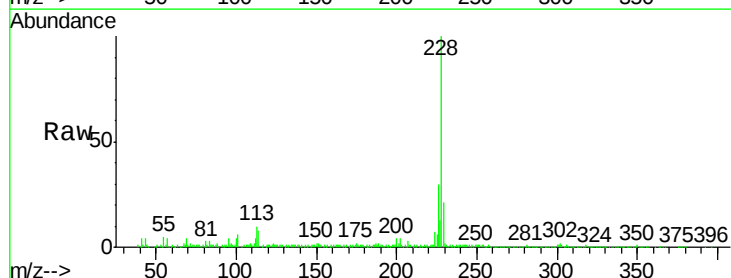


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

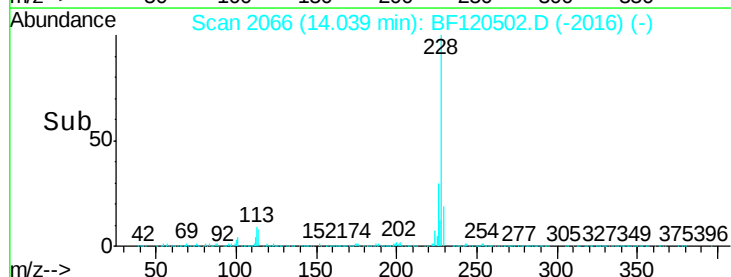
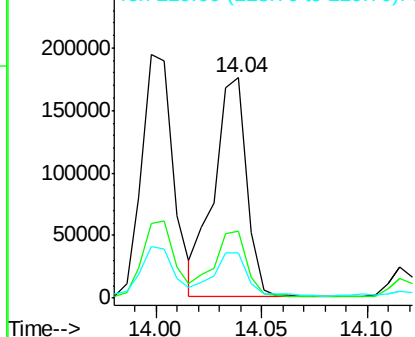


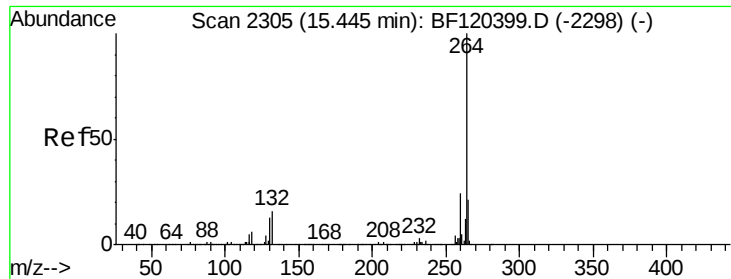
#83  
Chrysene  
Concen: 9.105 ng  
RT: 14.04 min Scan# 2066  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.7  | 38.5  |
| 229     | 20.6  | 16.4  | 24.6  |



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





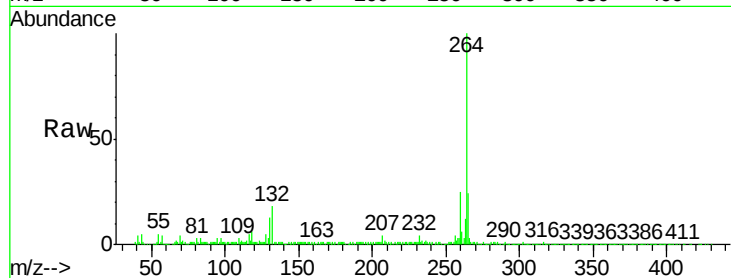
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2310  
Delta R.T. -0.00 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

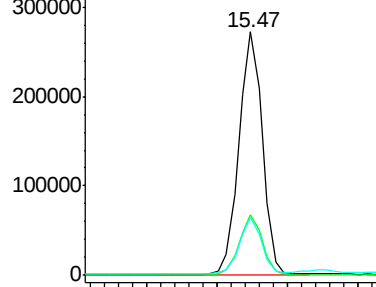
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.5  | 29.3  |
| 265     | 23.6  | 17.6  | 26.4  |

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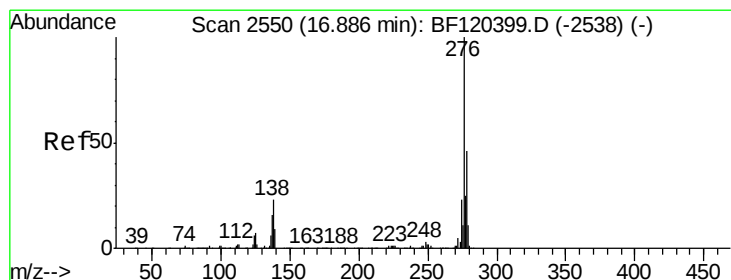
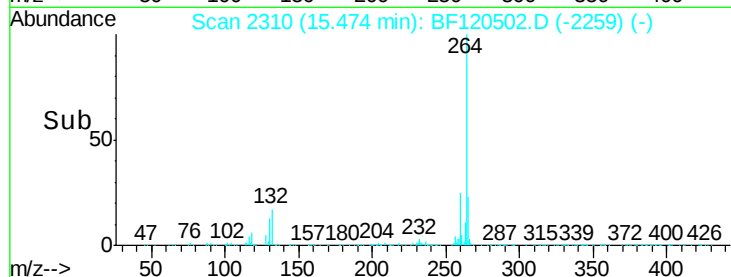
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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



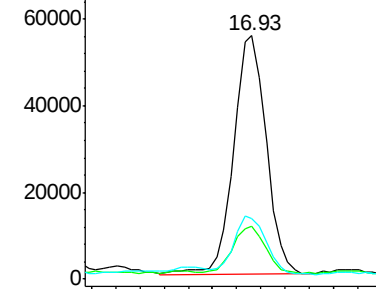
Time-->



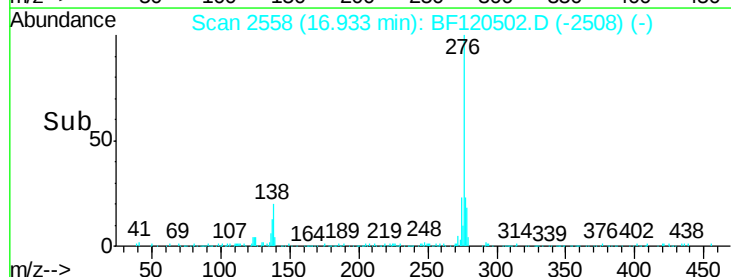
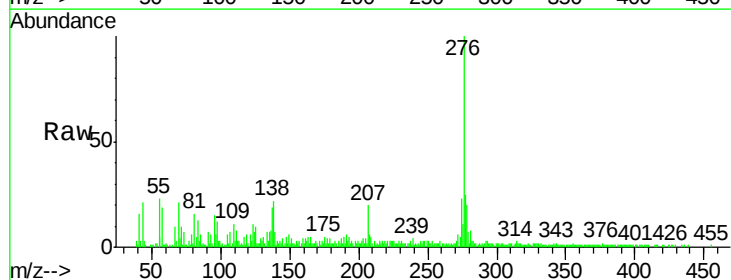
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.939 ng  
RT: 16.93 min Scan# 2558  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

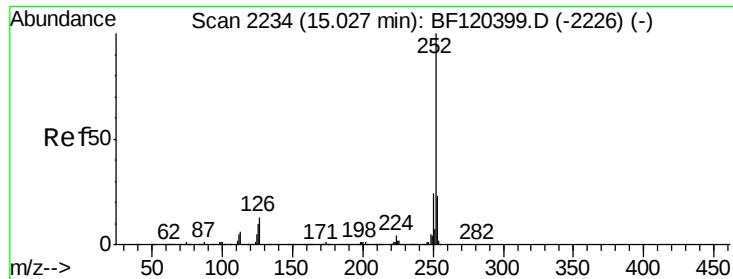
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.3  | 19.3  | 28.9  |
| 277     | 24.8  | 20.7  | 31.1  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



Time-->





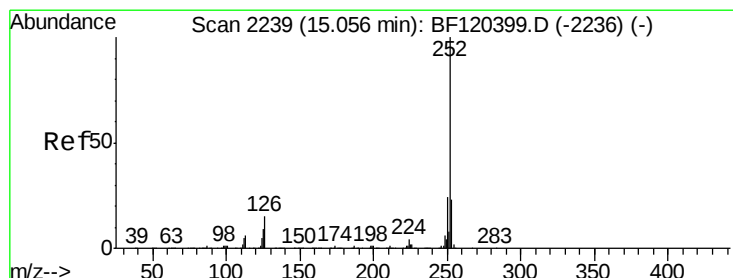
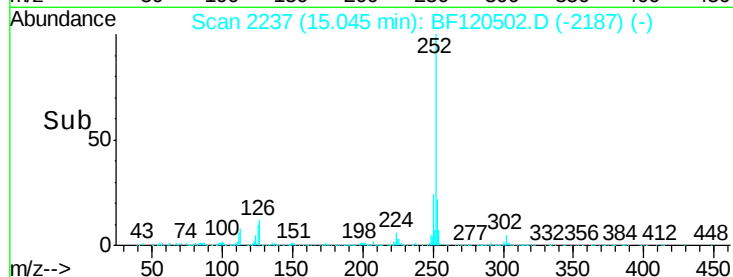
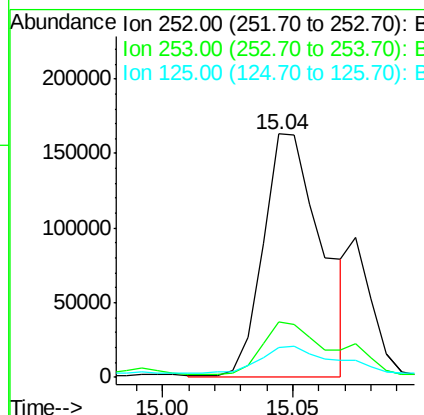
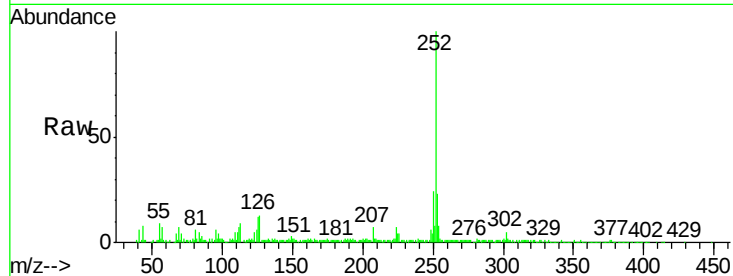
#88  
Benzo(b)fluoranthene  
Concen: 14.494 ng m  
RT: 15.04 min Scan# 2237  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.2  | 27.2  |
| 125     | 12.0  | 8.2   | 12.4  |

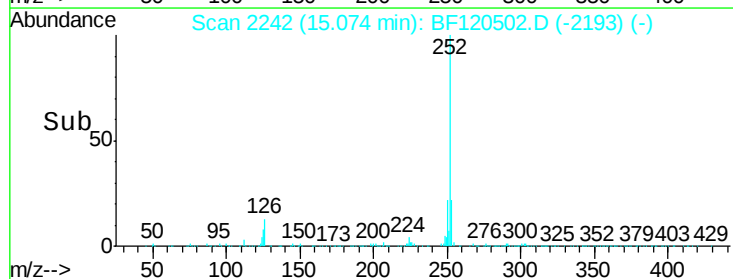
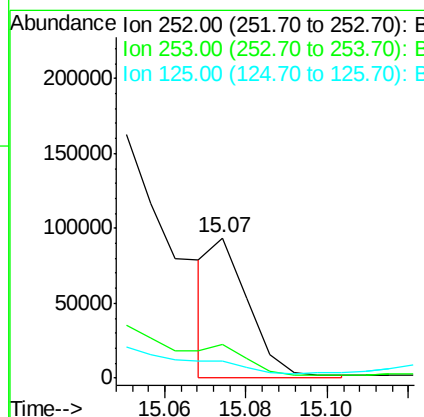
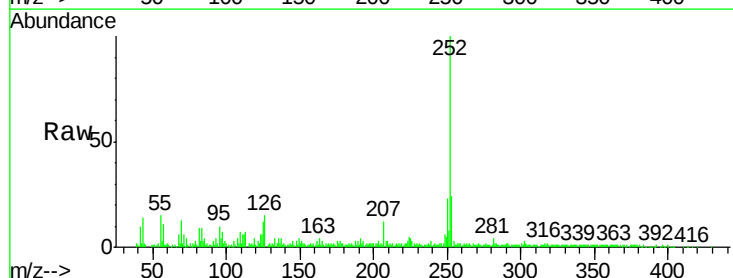
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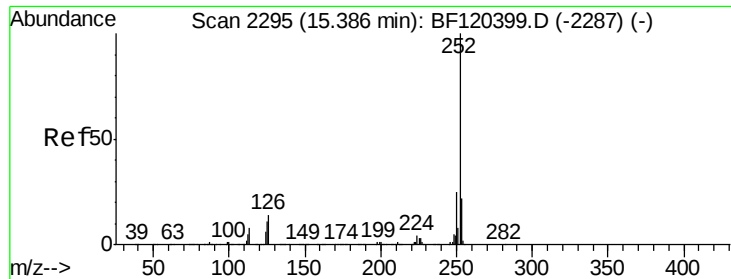
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#89  
Benzo(k)fluoranthene  
Concen: 3.621 ng m  
RT: 15.07 min Scan# 2242  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 17.8  | 26.6  |
| 125     | 12.2  | 7.1   | 10.7  |





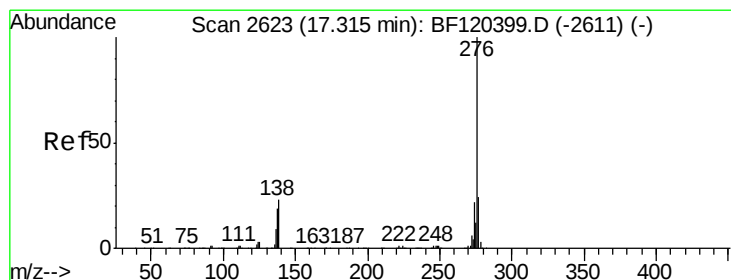
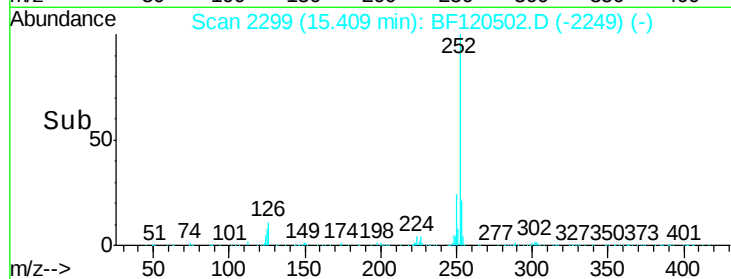
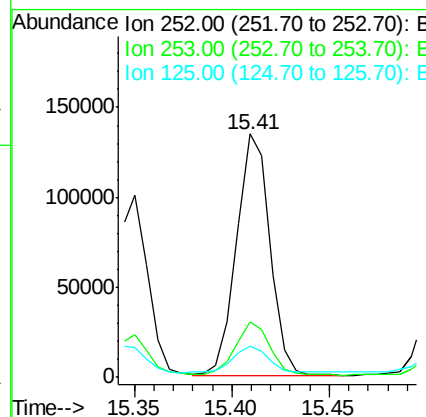
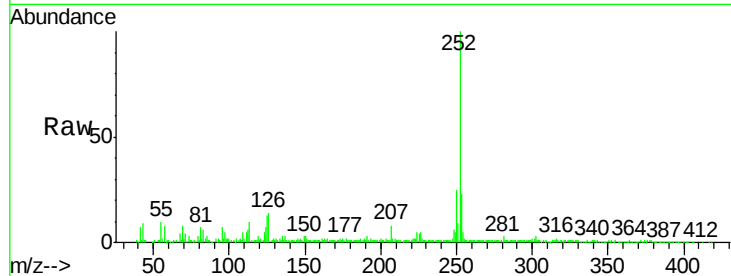
#90  
Benzo(a)pyrene  
Concen: 10.295 ng  
RT: 15.41 min Scan# 2299  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Instrument :  
BNA\_F  
ClientSampleId :  
NM98-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.9  | 26.9  |
| 125     | 13.0  | 9.0   | 13.4  |

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#92  
Benzo(g,h,i)perylene  
Concen: 6.968 ng  
RT: 17.37 min Scan# 2633  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.0  | 18.8  | 28.2  |
| 138     | 22.6  | 16.8  | 25.2  |

