

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060420\  
 Data File : BF120533.D  
 Acq On : 4 Jun 2020 15:06  
 Operator : JU/CG  
 Sample : L2839-14  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM103-COMP-2020-0-6

Manual Integrations  
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 6/5/2020 11:57:19 AM

Quant Time: Jun 05 04:00:56 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 03 14:26:17 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 134553   | 20.00  | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.11  | 136  | 664006   | 20.00  | ng    | -0.01      |
| 39) Acenaphthene-d10        | 9.86  | 164  | 325452   | 20.00  | ng    | -0.02      |
| 64) Phenanthrene-d10        | 11.35 | 188  | 584368   | 20.00  | ng    | -0.01      |
| 76) Chrysene-d12            | 13.99 | 240  | 378682   | 20.00  | ng    | -0.02      |
| 86) Perylene-d12            | 15.45 | 264  | 407953   | 20.00  | ng    | -0.01      |
| System Monitoring Compounds |       |      |          |        |       |            |
| 5) 2-Fluorophenol           | 5.45  | 112  | 806271   | 114.20 | ng    | 0.00       |
| 7) Phenol-d6                | 6.46  | 99   | 837939   | 96.29  | ng    | -0.01      |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 514275   | 50.66  | ng    | -0.02      |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 292506   | 97.00  | ng    | -0.01      |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 1428831  | 74.49  | ng    | -0.01      |
| 79) Terphenyl-d14           | 12.94 | 244  | 1263636  | 74.25  | ng    | -0.01      |
| Target Compounds            |       |      |          |        |       |            |
| 50) Dimethylphthalate       | 9.58  | 163  | 187159   | 9.199  | ng    | Qvalue 100 |
| 71) Phenanthrene            | 11.37 | 178  | 381843   | 14.829 | ng    | 97         |
| 72) Anthracene              | 11.43 | 178  | 225308   | 8.721  | ng    | 98         |
| 75) Fluoranthene            | 12.57 | 202  | 714960   | 25.805 | ng    | 99         |
| 78) Pyrene                  | 12.79 | 202  | 625835   | 23.764 | ng    | 98         |
| 81) Benzo(a)anthracene      | 13.99 | 228  | 337508   | 16.630 | ng    | 98         |
| 83) Chrysene                | 14.02 | 228  | 393953   | 18.515 | ng    | 98         |
| 87) Indeno(1,2,3-cd)pyrene  | 16.89 | 276  | 189048   | 8.473  | ng    | 94         |
| 88) Benzo(b)fluoranthene    | 15.03 | 252  | 436608m  | 19.269 | ng    |            |
| 89) Benzo(k)fluoranthene    | 15.05 | 252  | 129555m  | 6.125  | ng    |            |
| 90) Benzo(a)pyrene          | 15.39 | 252  | 298451   | 15.058 | ng    | 99         |
| 91) Dibenzo(a,h)anthracene  | 16.90 | 278  | 48547m   | 2.669  | ng    |            |
| 92) Benzo(a,h,i)perylene    | 17.33 | 276  | 166880   | 9.301  | ng    | 99         |

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

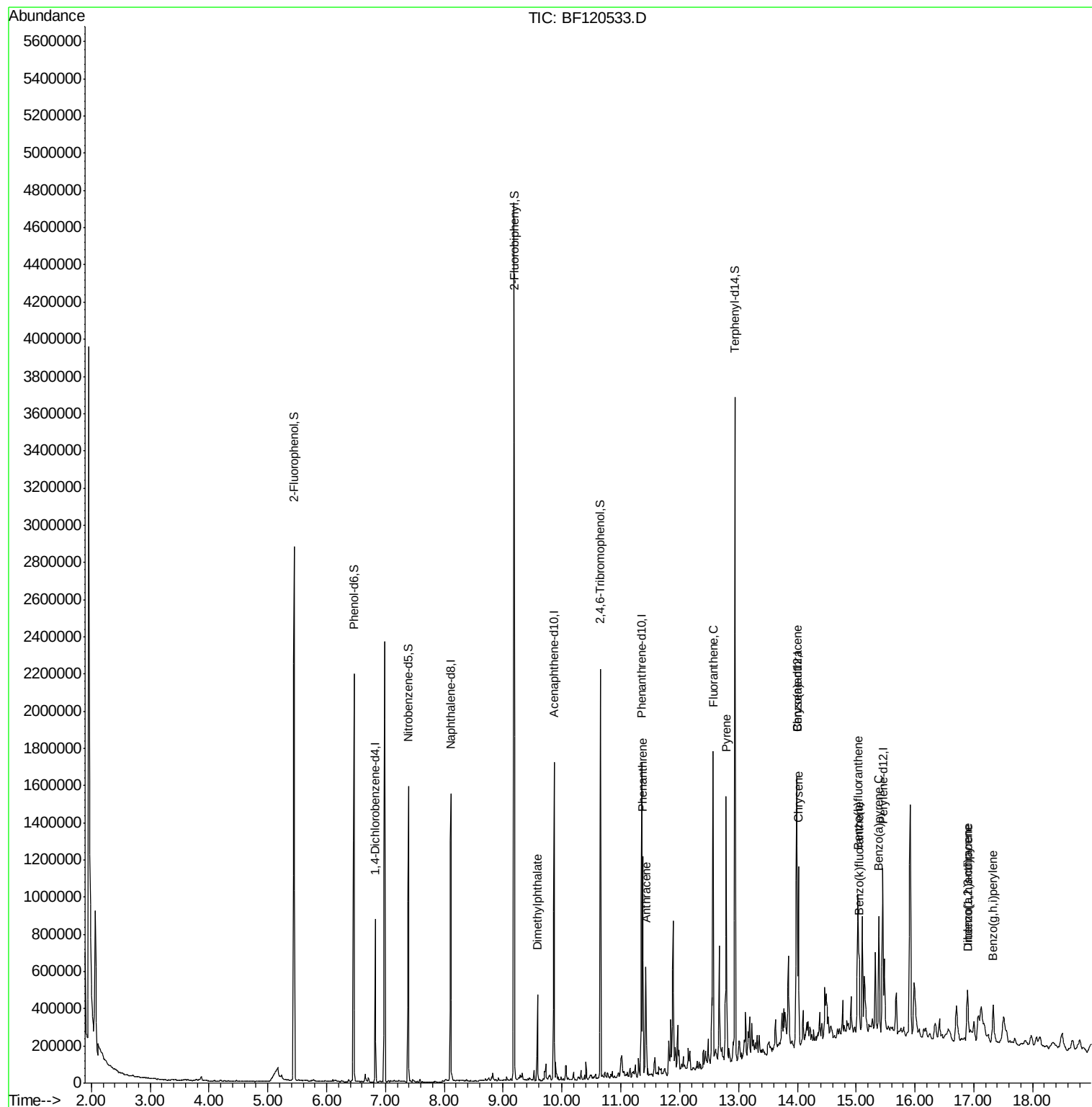
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060420\  
Data File : BF120533.D  
Acq On : 4 Jun 2020 15:06  
Operator : JU/CG  
Sample : L2839-14  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

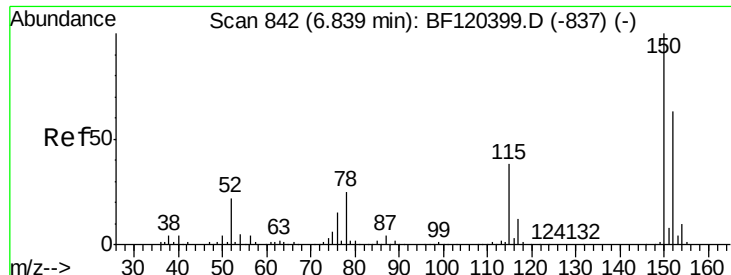
Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

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Quant Time: Jun 05 04:00:56 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 03 14:26:17 2020  
Response via : Initial Calibration





#1

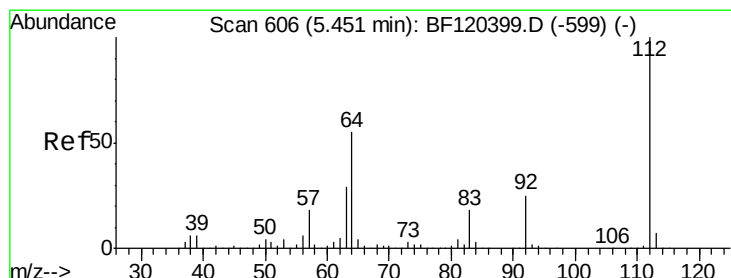
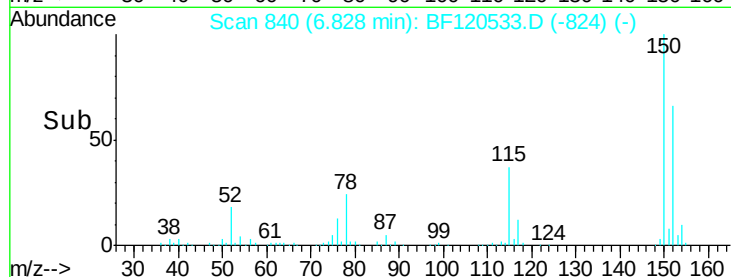
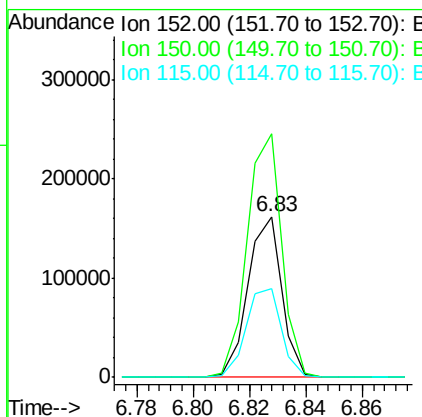
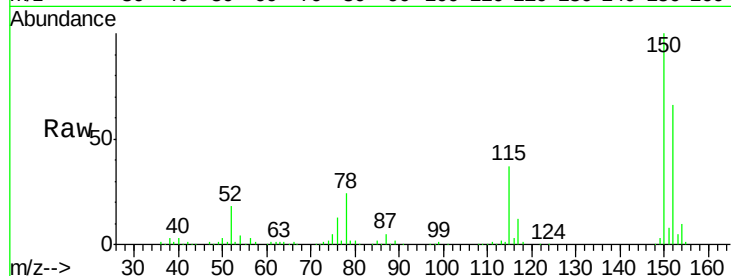
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.4 | 127.1 | 190.7 |
| 115     | 55.3  | 48.7  | 73.1  |

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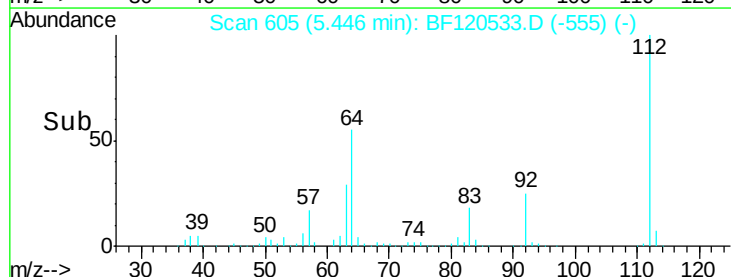
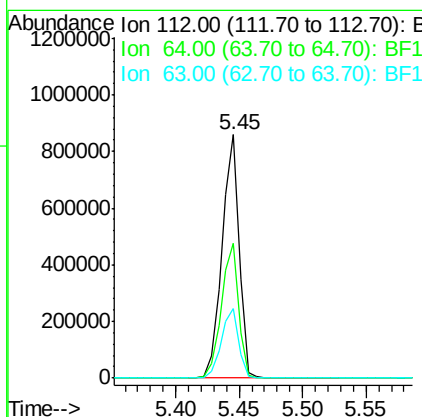
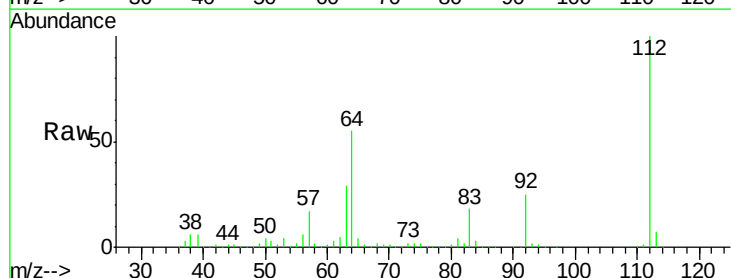
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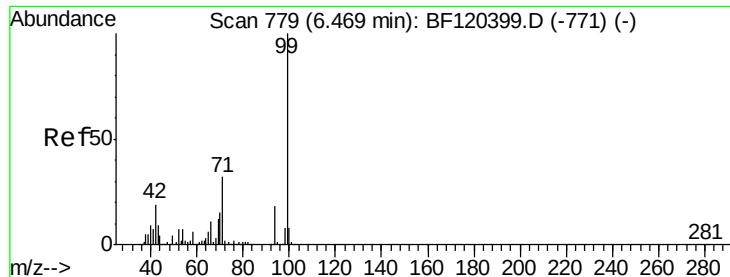


#5

2-Fluorophenol  
Concen: 114.197 ng  
RT: 5.45 min Scan# 605  
Delta R.T. -0.01 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.1  | 45.8  | 68.8  |
| 63      | 28.8  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 96.288 ng

RT: 6.46 min Scan# 778

Delta R.T. -0.01 min

Lab File: BF120533.D

Acq: 4 Jun 2020 15:06

Instrument :

BNA\_F

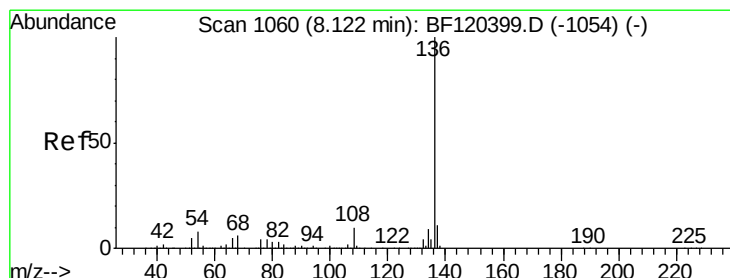
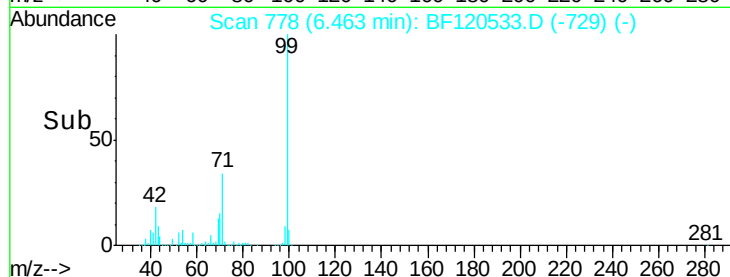
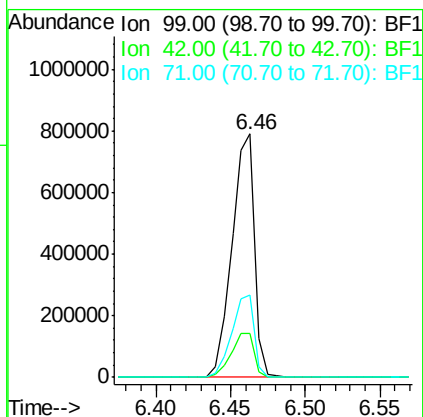
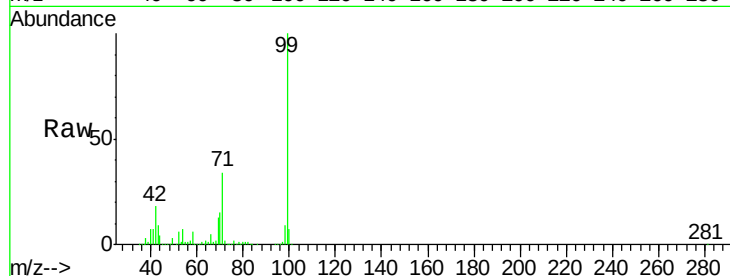
ClientSampleId :

NM103-COMP-2020-0-6

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 837939 |       |       |
| 42      | 18.0 | 15.0  | 22.4   |       |       |
| 71      | 33.6 | 26.3  | 39.5   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

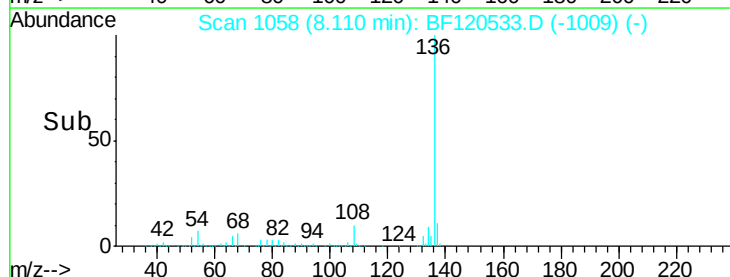
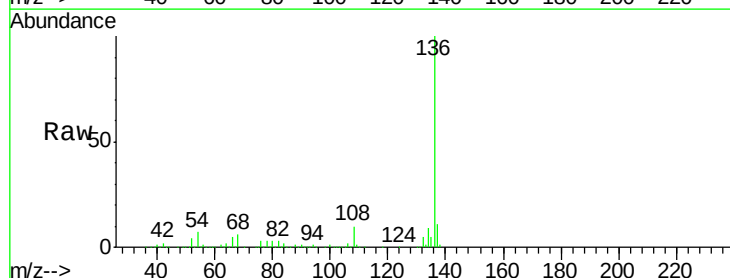
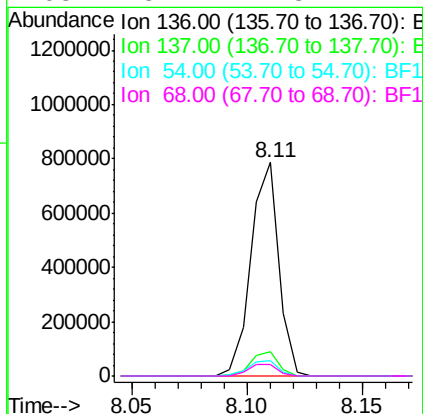
RT: 8.11 min Scan# 1058

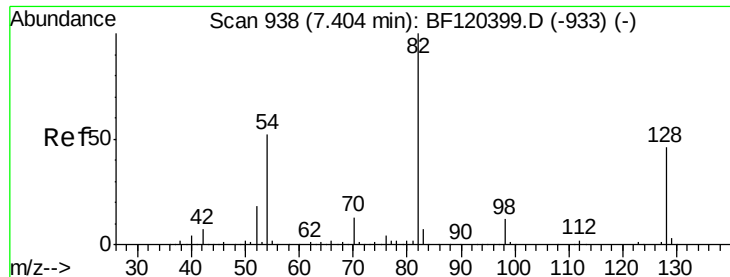
Delta R.T. -0.01 min

Lab File: BF120533.D

Acq: 4 Jun 2020 15:06

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 664006 |       |       |
| 137     | 11.2 | 9.0   | 13.4   |       |       |
| 54      | 7.1  | 6.0   | 9.0    |       |       |
| 68      | 5.7  | 4.8   | 7.2    |       |       |





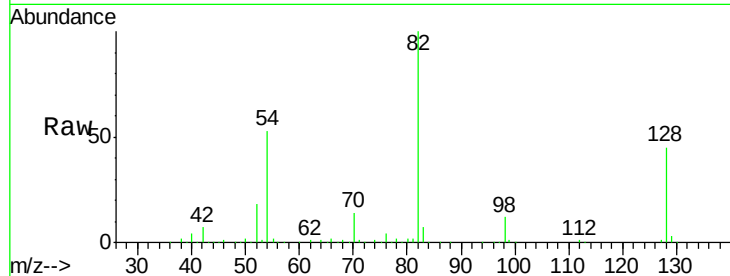
#23  
Nitrobenzene-d5  
Concen: 50.663 ng  
RT: 7.39 min Scan# 935  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

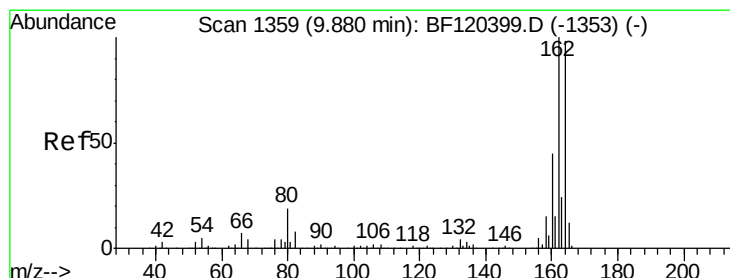
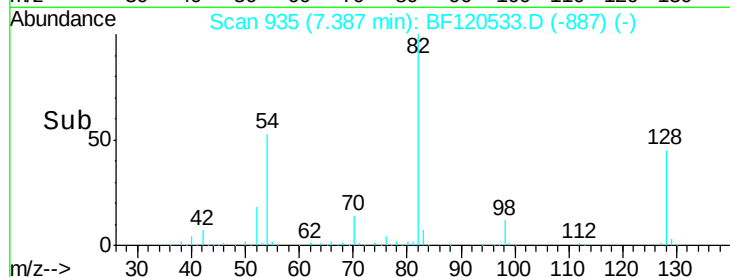
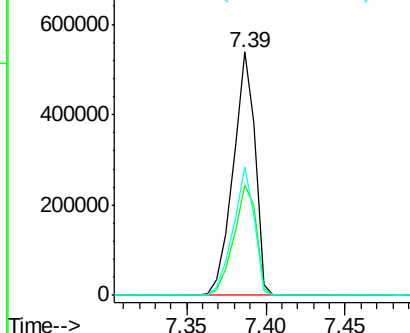
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.2  | 37.4  | 56.0  |
| 54      | 52.5  | 40.7  | 61.1  |

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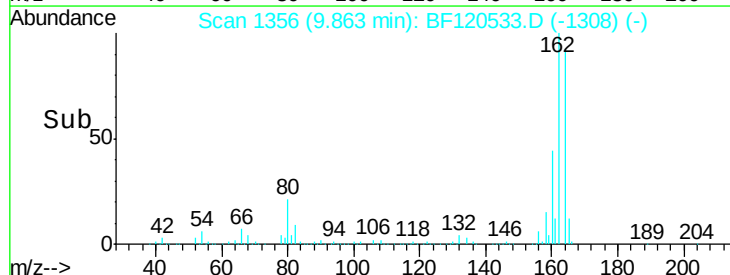
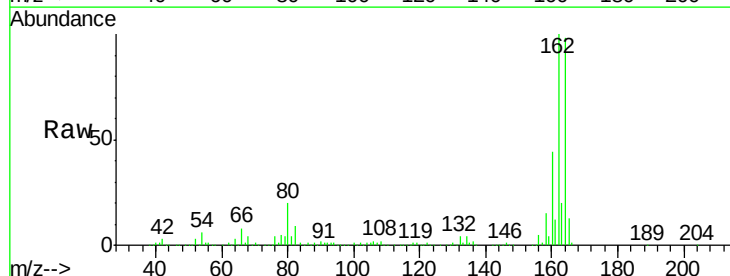
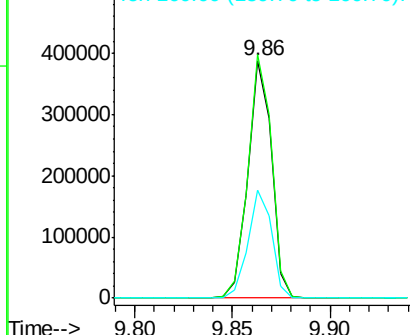
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

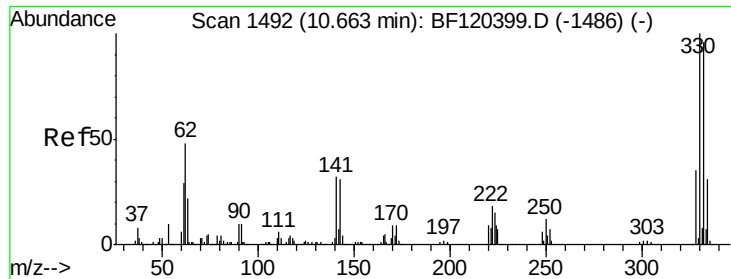


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.86 min Scan# 1356  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.5 | 81.8  | 122.6 |
| 160     | 45.3  | 37.3  | 55.9  |

Abundance Ion 164.00 (163.70 to 164.70): BF1  
Ion 162.00 (161.70 to 162.70): BF1  
Ion 160.00 (159.70 to 160.70): BF1





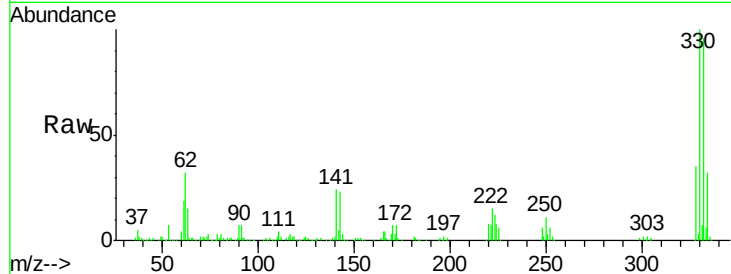
#42  
 2,4,6-Tribromophenol  
 Concen: 97.002 ng  
 RT: 10.66 min Scan# 1491  
 Delta R.T. -0.01 min  
 Lab File: BF120533.D  
 Acq: 4 Jun 2020 15:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM103-COMP-2020-0-6

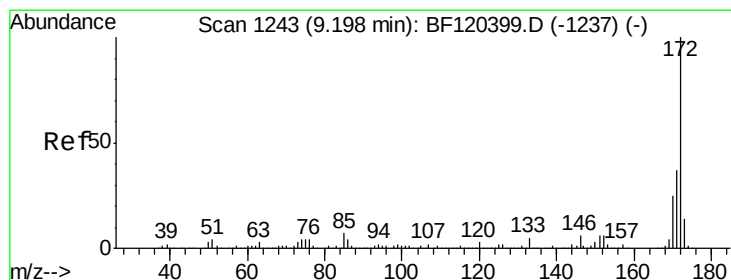
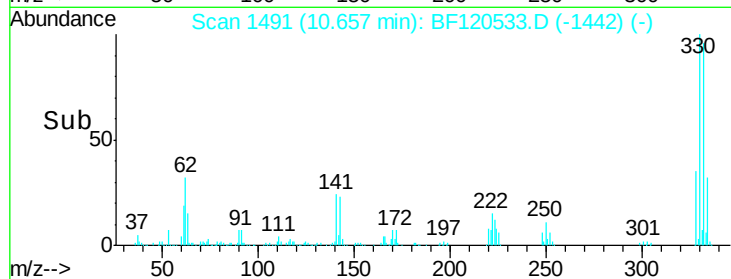
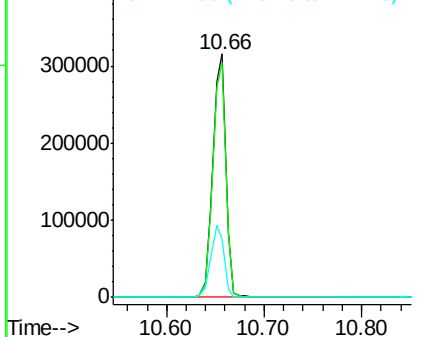
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 292506 |       |       |
| 332     | 97.0  |        | 77.4  | 116.2 |
| 141     | 29.9  |        | 23.5  | 35.3  |

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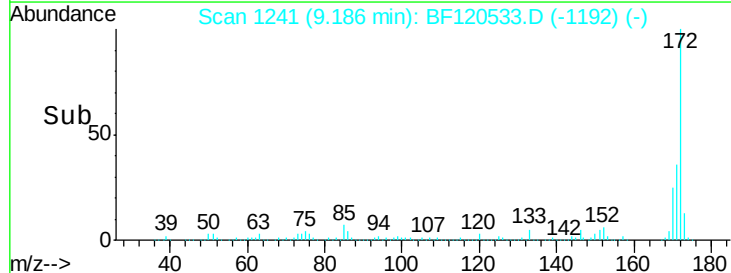
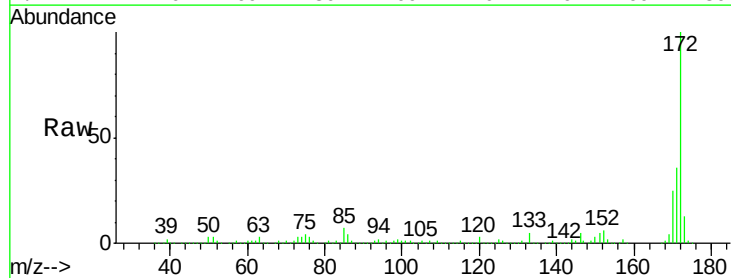
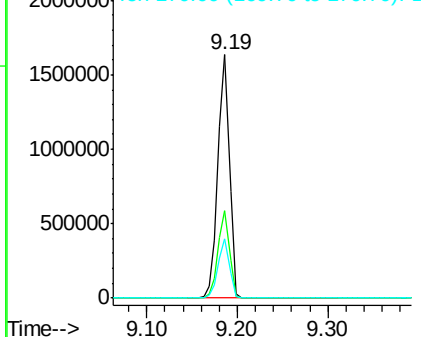
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

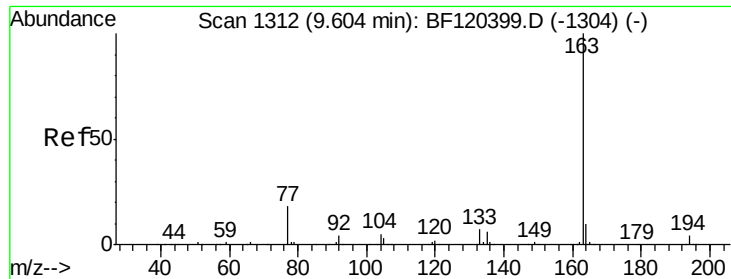


#45  
 2-Fluorobiphenyl  
 Concen: 74.490 ng  
 RT: 9.19 min Scan# 1241  
 Delta R.T. -0.01 min  
 Lab File: BF120533.D  
 Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1428831 |       |       |
| 171     | 36.1  |         | 29.2  | 43.8  |
| 170     | 24.5  |         | 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





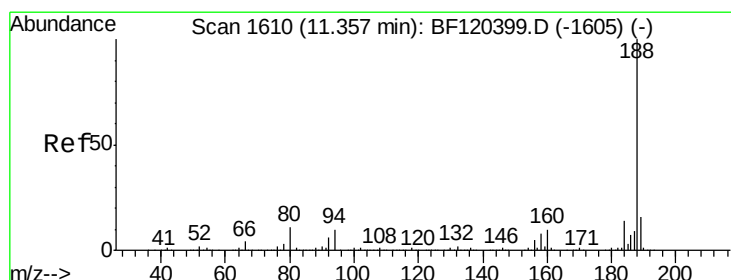
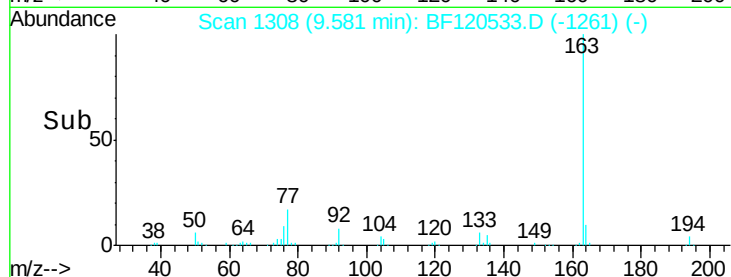
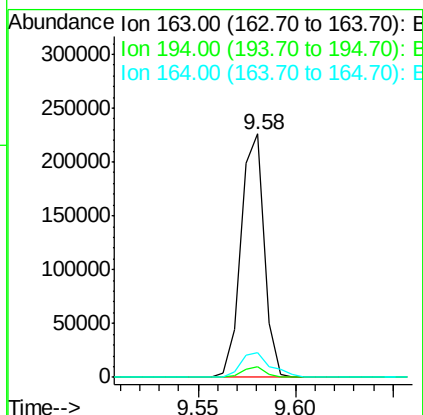
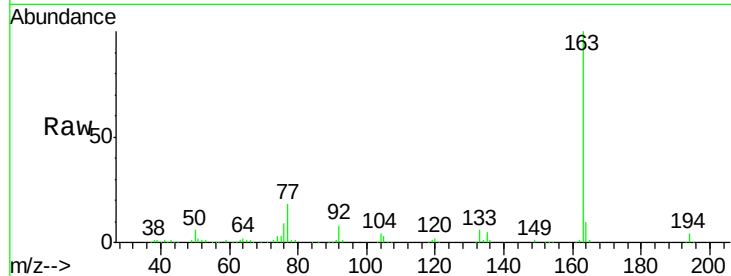
#50  
Dimethylphthalate  
Concen: 9.199 ng  
RT: 9.58 min Scan# 1308  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 187159 |       |       |
| 194     | 4.2   |        | 3.1   | 4.7   |
| 164     | 10.2  |        | 8.2   | 12.4  |

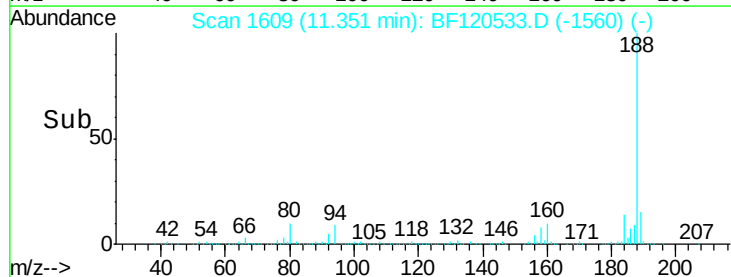
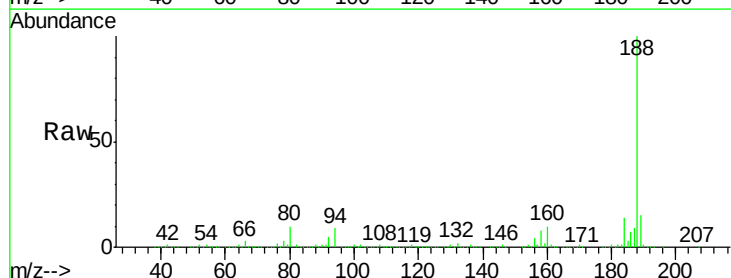
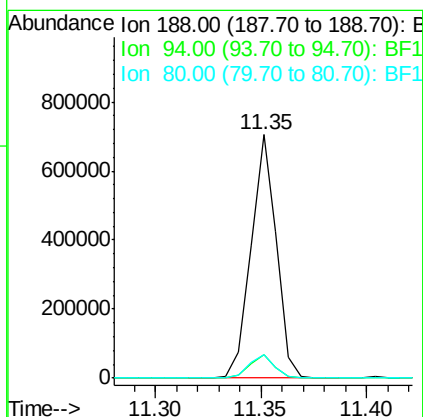
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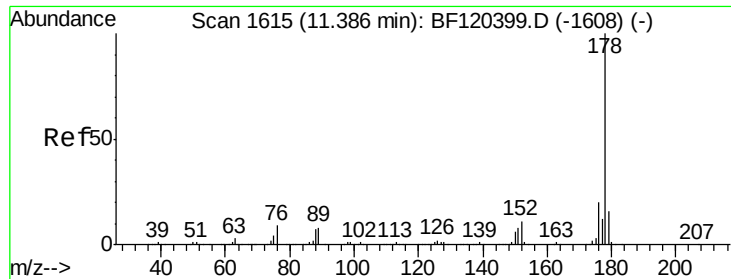
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.35 min Scan# 1609  
Delta R.T. -0.01 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 584368 |       |       |
| 94      | 9.4   |        | 7.5   | 11.3  |
| 80      | 9.7   |        | 7.9   | 11.9  |





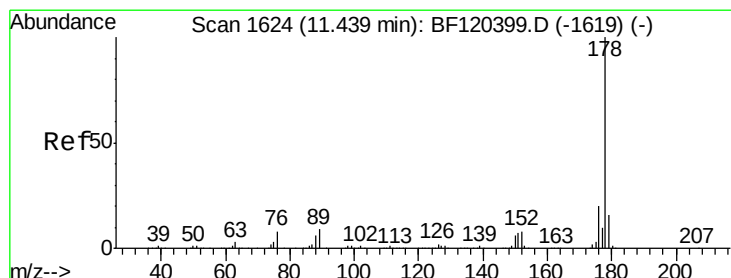
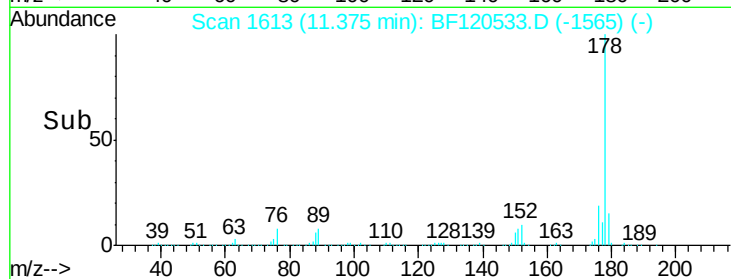
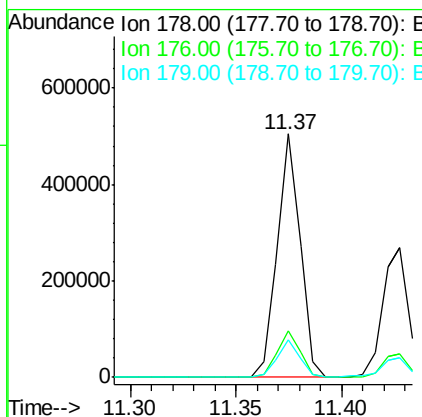
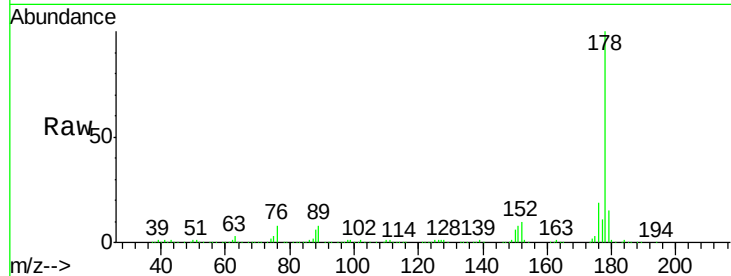
#71  
Phenanthrene  
Concen: 14.829 ng  
RT: 11.37 min Scan# 1613  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 16.6  | 24.8  |
| 179     | 15.4  | 13.0  | 19.4  |

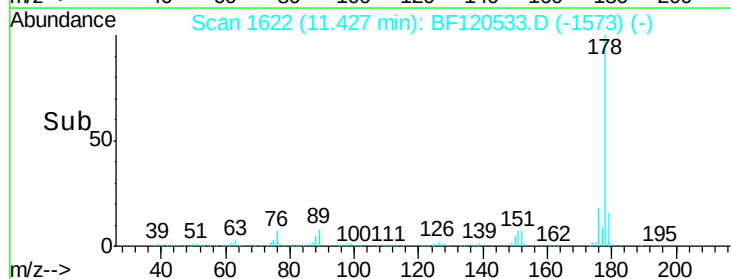
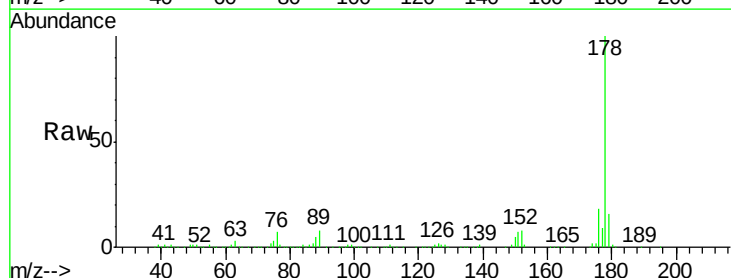
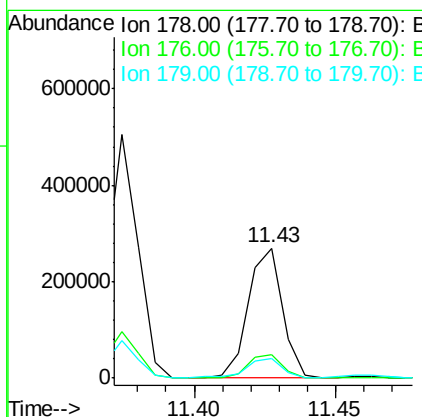
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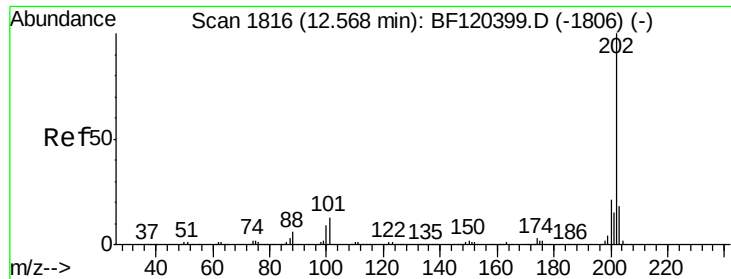


#72  
Anthracene  
Concen: 8.721 ng  
RT: 11.43 min Scan# 1622  
Delta R.T. -0.01 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.7  | 23.5  |
| 179     | 15.6  | 13.1  | 19.7  |







#75

Fluoranthene

Concen: 25.805 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF120533.D

Acq: 4 Jun 2020 15:06

Instrument :

BNA\_F

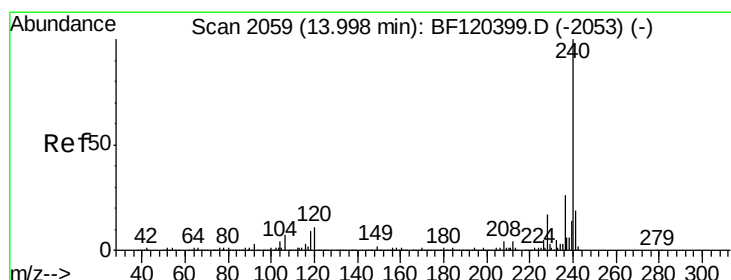
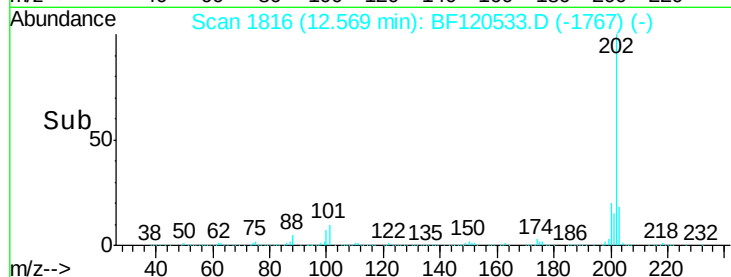
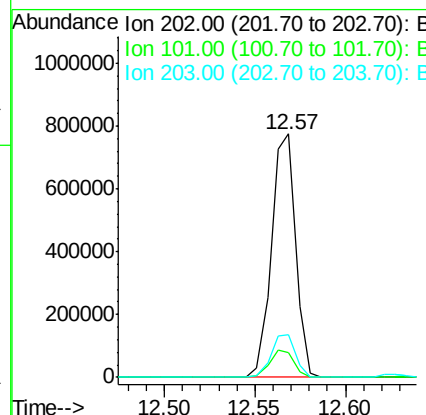
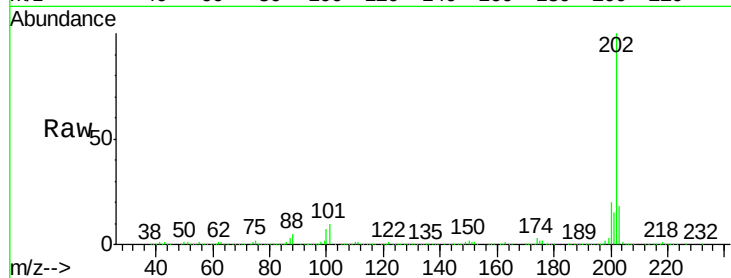
ClientSampleId :

NM103-COMP-2020-0-6

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.9   | 0.0        | 30.4  |
| 203     | 17.6  | 0.0        | 38.2  |

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#76

Chrysene-d12

Concen: 20.000 ng

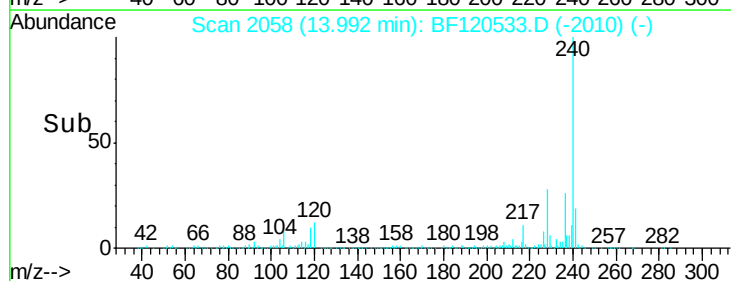
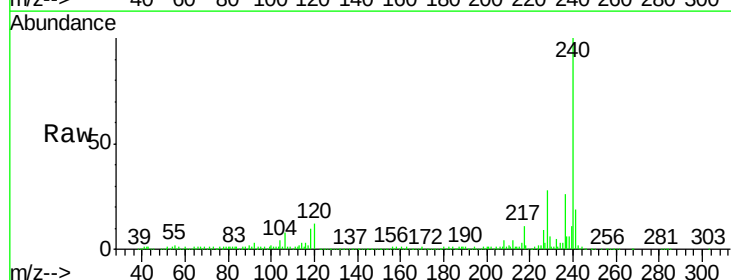
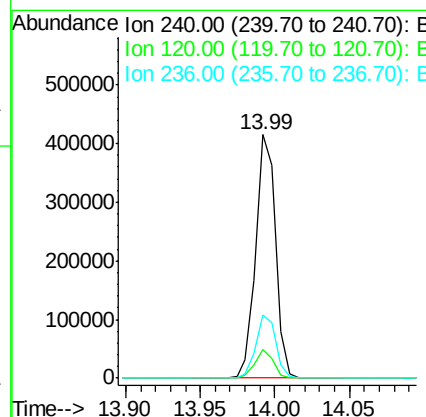
RT: 13.99 min Scan# 2058

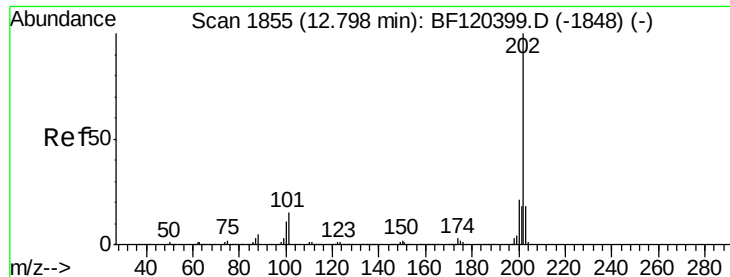
Delta R.T. -0.02 min

Lab File: BF120533.D

Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 11.8  | 7.9        | 11.9  |
| 236     | 26.1  | 21.1       | 31.7  |





#78

Pvrene

Concen: 23.764 ng

RT: 12.79 min Scan# 1854

Delta R.T. -0.02 min

Lab File: BF120533.D

Acq: 4 Jun 2020 15:06

Instrument :

BNA\_F

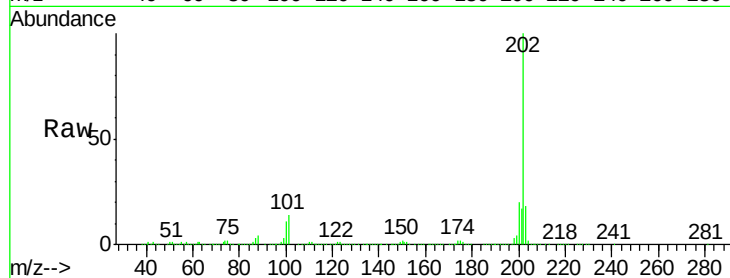
ClientSampleId :

NM103-COMP-2020-0-6

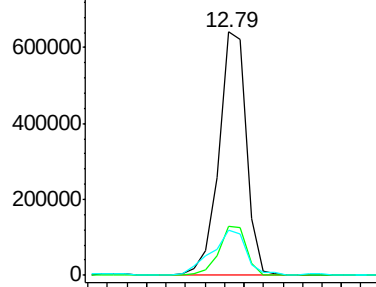
| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 200     | 20.1 | 17.3  | 25.9 |       |       |
| 203     | 18.4 | 14.5  | 21.7 |       |       |

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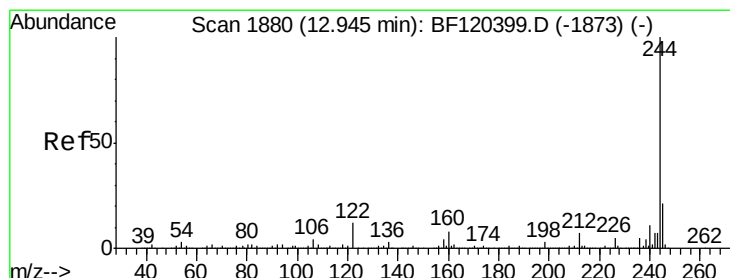
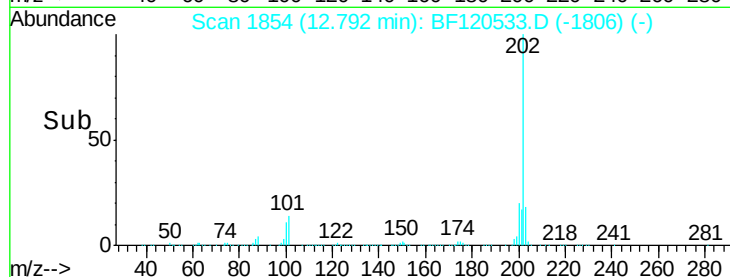
mohammad  
6/5/2020 11:57:19 AM



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



Time-->



#79

Terphenyl-d14

Concen: 74.255 ng

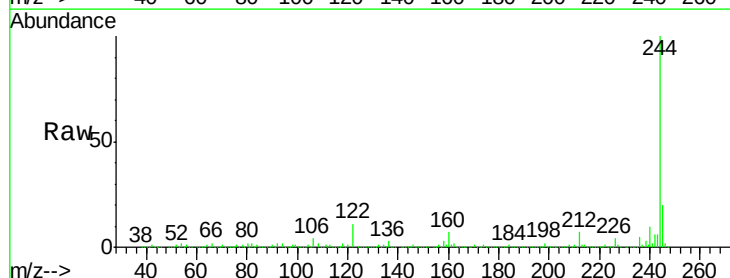
RT: 12.94 min Scan# 1879

Delta R.T. -0.01 min

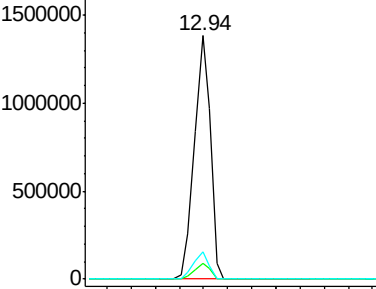
Lab File: BF120533.D

Acq: 4 Jun 2020 15:06

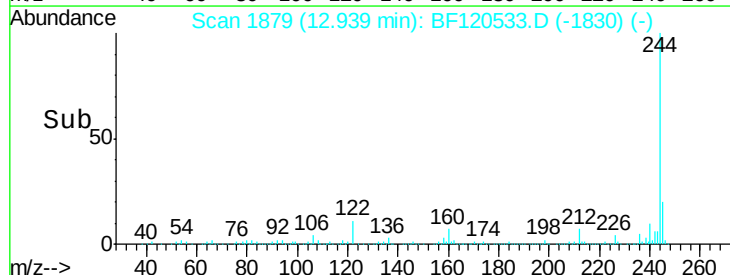
| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 244     | 100  |       |      |       |       |
| 212     | 6.7  | 5.8   | 8.8  |       |       |
| 122     | 11.1 | 8.2   | 12.4 |       |       |

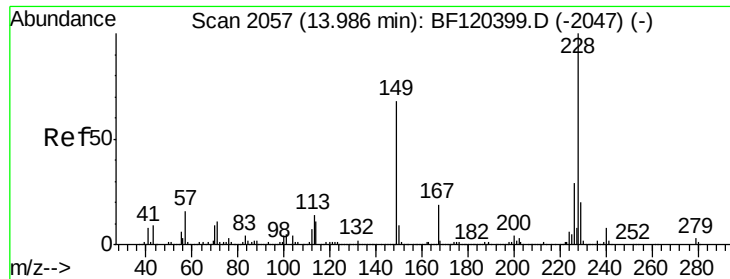


Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



Time-->





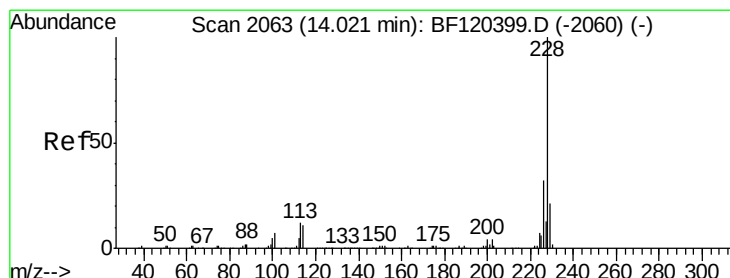
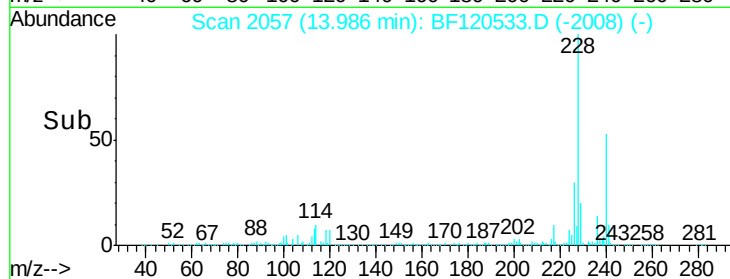
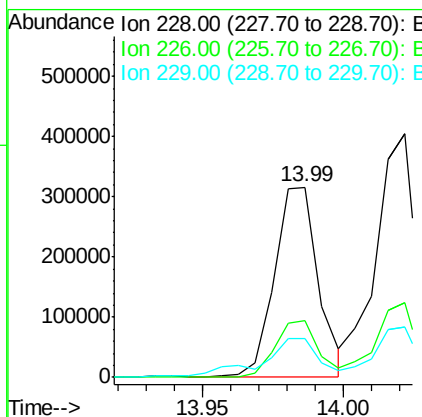
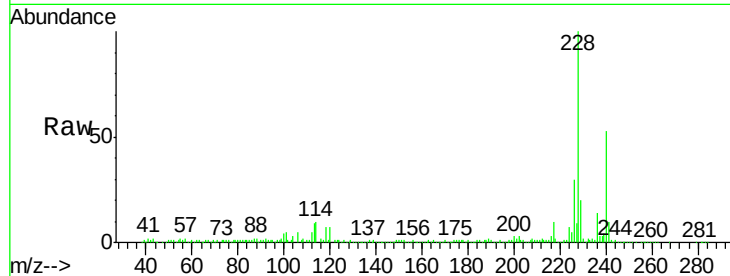
#81  
Benzo(a)anthracene  
Concen: 16.630 ng  
RT: 13.99 min Scan# 2057  
Delta R.T. -0.01 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 22.7  | 34.1  |
| 229     | 20.3  | 16.3  | 24.5  |

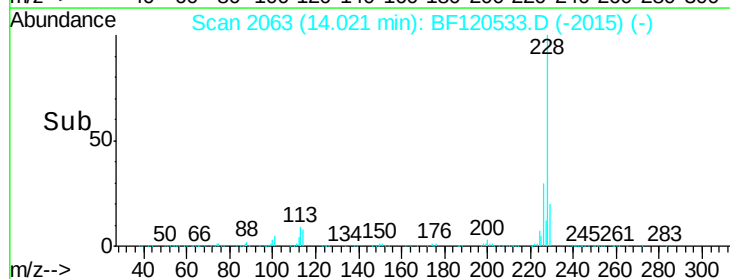
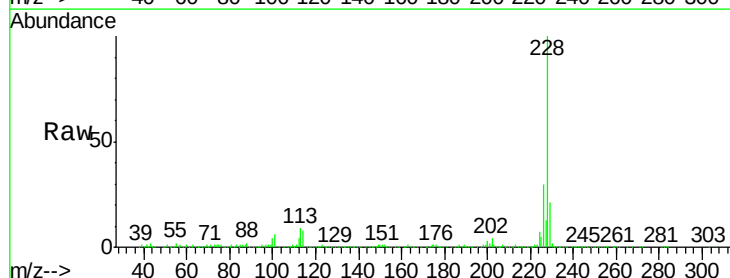
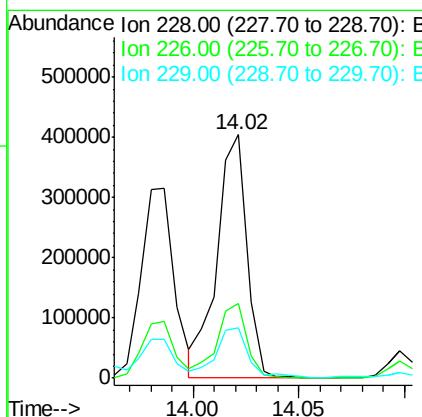
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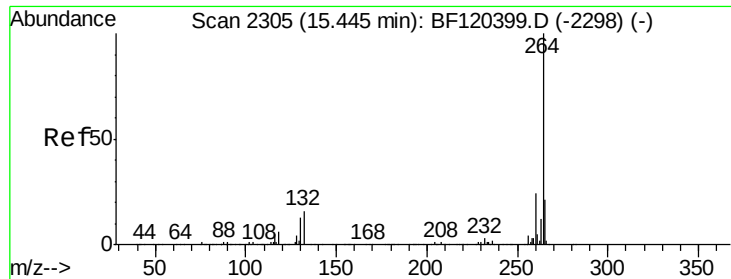
mohammad  
6/5/2020 11:57:19 AM



#83  
Chrysene  
Concen: 18.515 ng  
RT: 14.02 min Scan# 2063  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.2  | 37.8  |
| 229     | 20.9  | 16.1  | 24.1  |





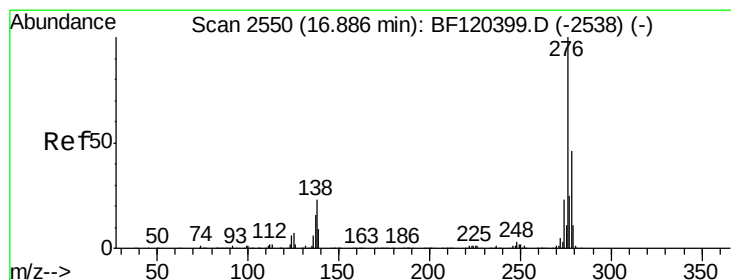
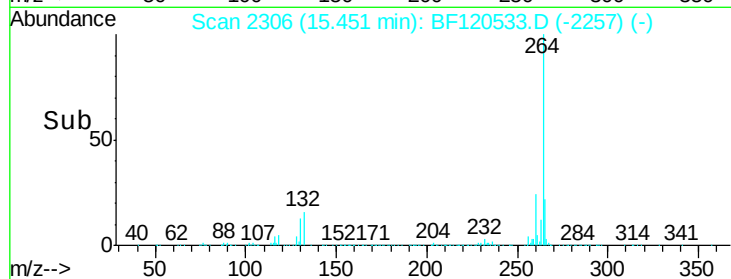
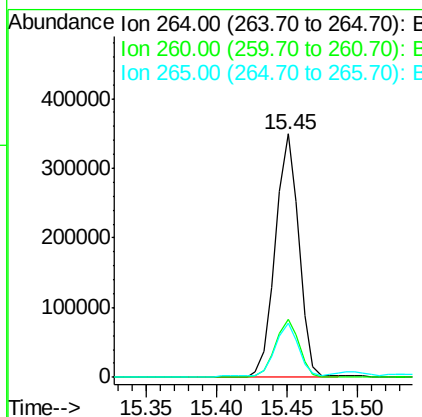
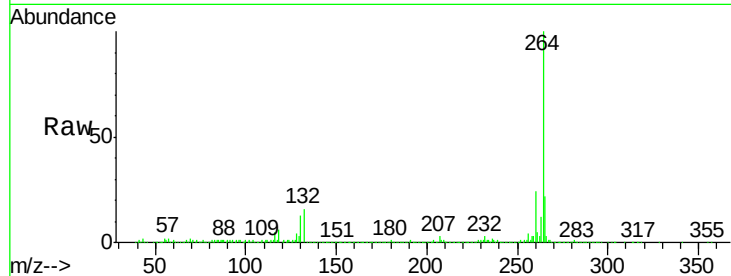
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2306  
Delta R.T. -0.01 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.8  | 29.8  |
| 265     | 22.1  | 17.5  | 26.3  |

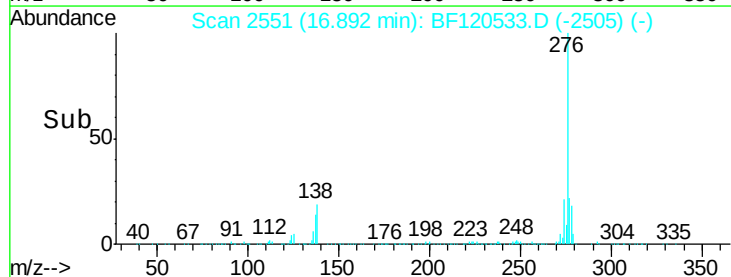
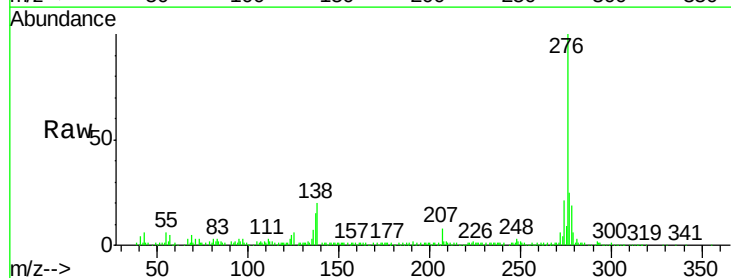
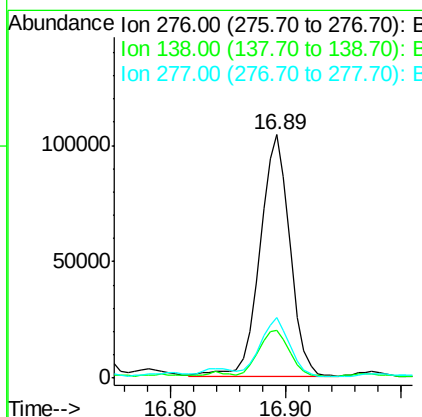
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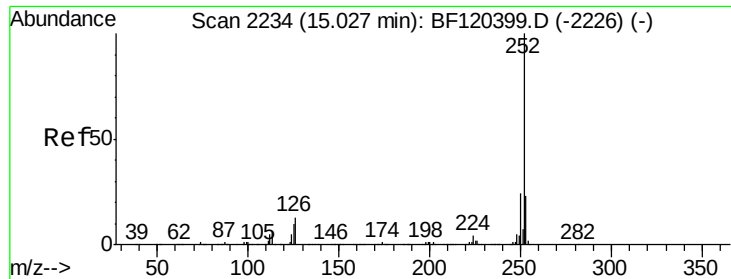
mohammad  
6/5/2020 11:57:19 AM



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 8.473 ng  
RT: 16.89 min Scan# 2551  
Delta R.T. -0.03 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.7  | 19.2  | 28.8  |
| 277     | 23.8  | 20.4  | 30.6  |





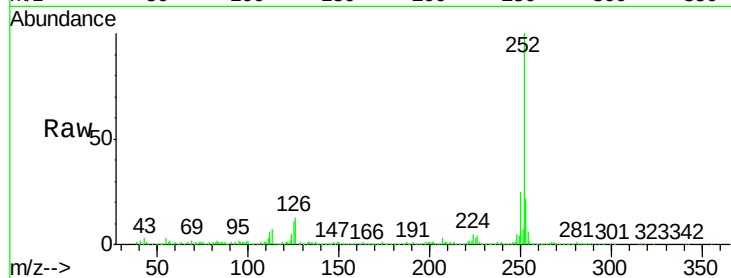
#88  
Benzo(b)fluoranthene  
Concen: 19.269 ng m  
RT: 15.03 min Scan# 2234  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.2  | 27.2  |
| 125     | 10.6  | 7.6   | 11.4  |

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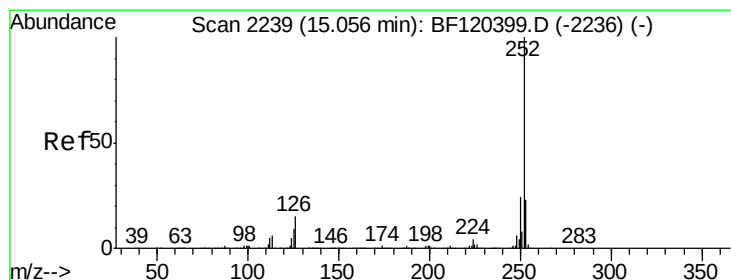
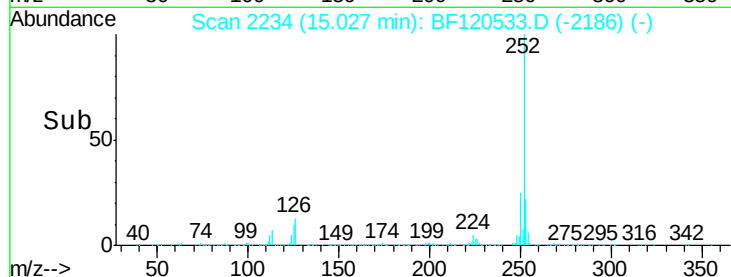
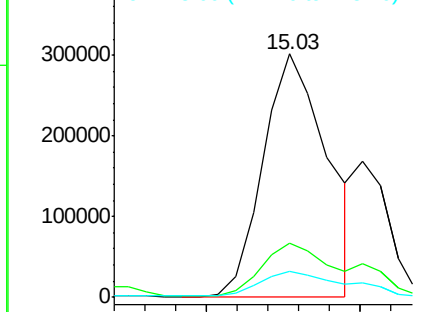


Abundance

Ion 252.00 (251.70 to 252.70): E

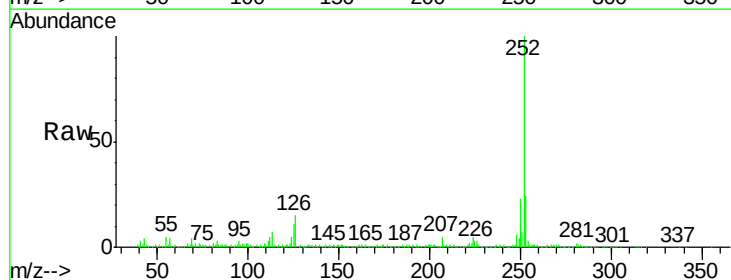
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(k)fluoranthene  
Concen: 6.125 ng m  
RT: 15.05 min Scan# 2238  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 17.6  | 26.4  |
| 125     | 10.8  | 7.5   | 11.3  |

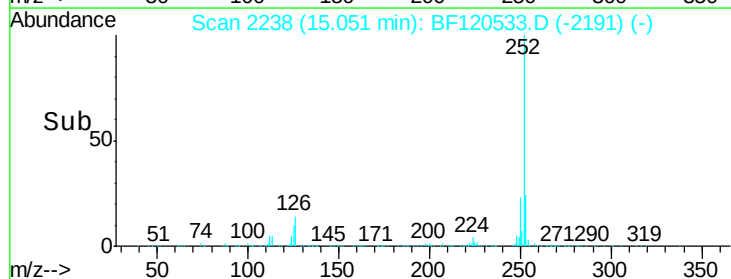
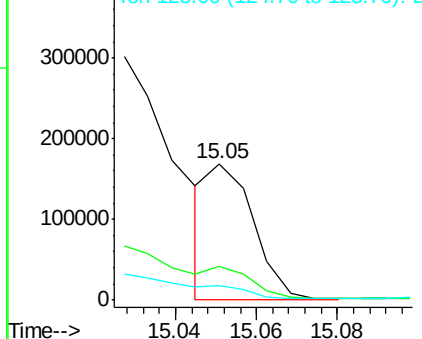


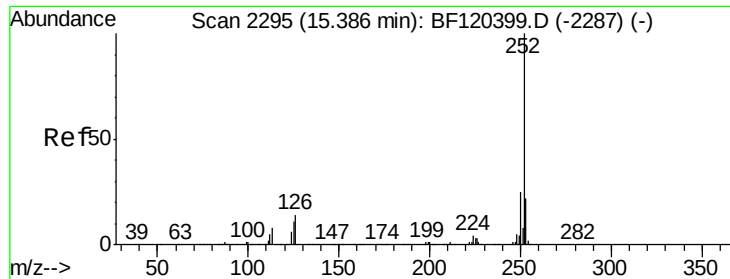
Abundance

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





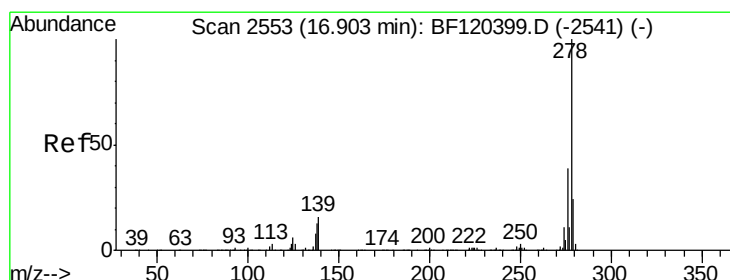
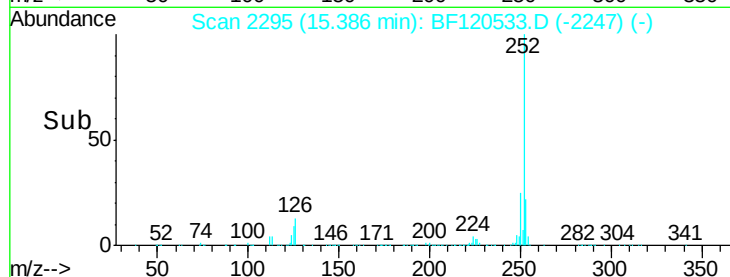
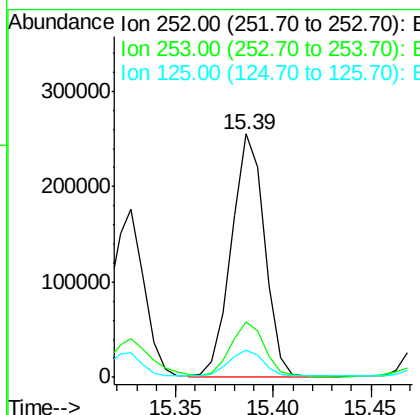
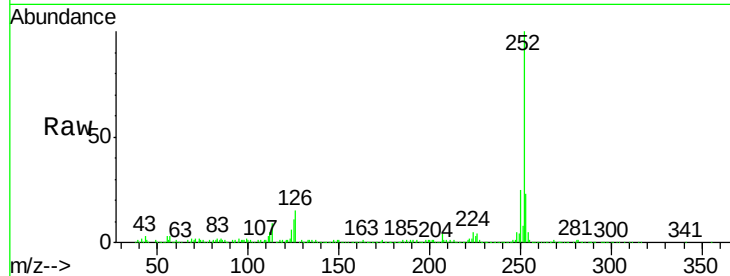
#90  
Benzo(a)pyrene  
Concen: 15.058 ng  
RT: 15.39 min Scan# 2295  
Delta R.T. -0.02 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

Instrument :  
BNA\_F  
ClientSampleId :  
NM103-COMP-2020-0-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 298451 |       |       |
| 253     | 22.9  | 18.0   | 27.0  |       |
| 125     | 11.1  | 9.2    | 13.8  |       |

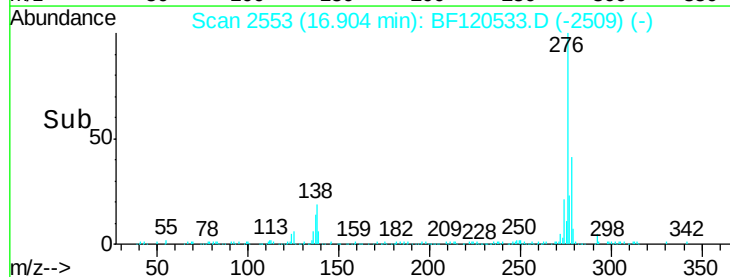
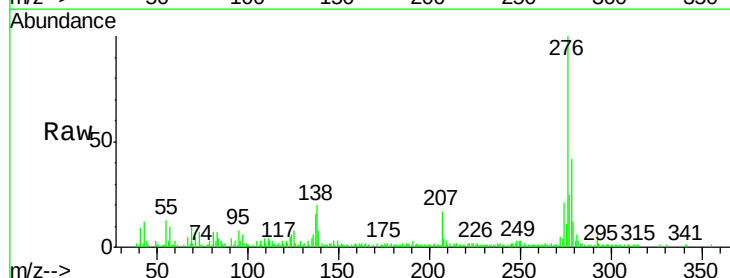
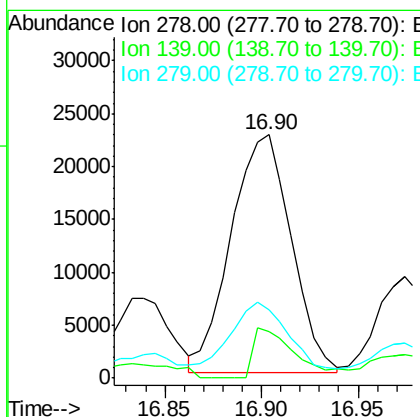
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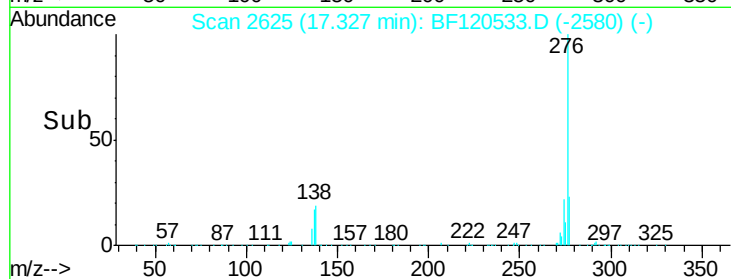
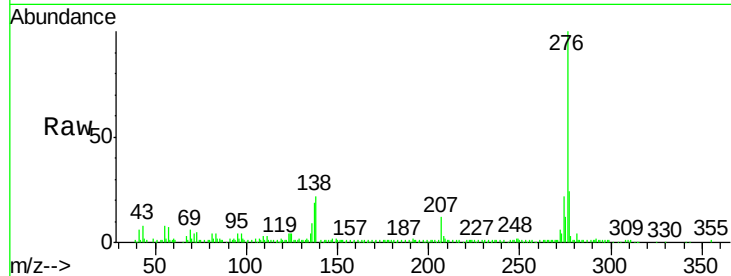
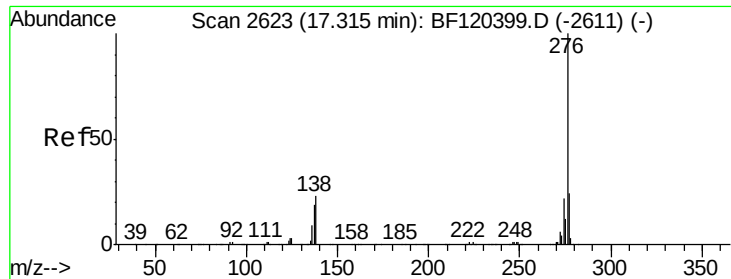
mohammad  
6/5/2020 11:57:19 AM



#91  
Dibenzo(a,h)anthracene  
Concen: 2.669 ng m  
RT: 16.90 min Scan# 2553  
Delta R.T. -0.04 min  
Lab File: BF120533.D  
Acq: 4 Jun 2020 15:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 48547 |       |       |
| 139     | 19.3  | 11.6  | 17.4# |       |
| 279     | 28.1  | 19.2  | 28.8  |       |





#92  
 Benzo(a,h,i)perylene  
 Concen: 9.301 ng  
 RT: 17.33 min Scan# 2625  
 Delta R.T. -0.04 min  
 Lab File: BF120533.D  
 Acq: 4 Jun 2020 15:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM103-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 19.4  | 29.2  |
| 138     | 21.6  | 16.6  | 25.0  |

Manual Integrations  
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 6/5/2020 11:57:19 AM

