

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
 Data File : BF119194.D  
 Acq On : 4 Mar 2020 14:55  
 Operator : CG/JU  
 Sample : L1762-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-06-030220

Manual Integrations  
 APPROVED

mohammad  
 3/5/2020 3:54:21 PM

Quant Time: Mar 04 16:34:09 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 26 16:03:05 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 138497   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 505202   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.77  | 164  | 250427   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.26 | 188  | 376417   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.90 | 240  | 267434   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.33 | 264  | 314711   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.37  | 112  | 758788   | 91.56 | ng    | 0.00     |
| 7) Phenol-d6                | 6.39  | 99   | 911577   | 90.44 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 595074   | 62.19 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330  | 248649   | 75.90 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.10  | 172  | 1132102  | 66.60 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.84 | 244  | 1000964  | 64.44 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.49  | 163  | 185905   | 9.708 | ng    | 99       |
| 71) Phenanthrene            | 11.28 | 178  | 110354   | 5.376 | ng    | 98       |
| 75) Fluoranthene            | 12.47 | 202  | 157005   | 7.205 | ng    | 99       |
| 78) Pyrene                  | 12.70 | 202  | 134403   | 6.259 | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.89 | 228  | 57634    | 3.163 | ng    | 98       |
| 83) Chrysene                | 13.92 | 228  | 45381    | 2.499 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 14.92 | 252  | 63427m   | 3.058 | ng    |          |
| 90) Benzo(a)pyrene          | 15.27 | 252  | 42543    | 2.272 | ng    | # 93     |

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

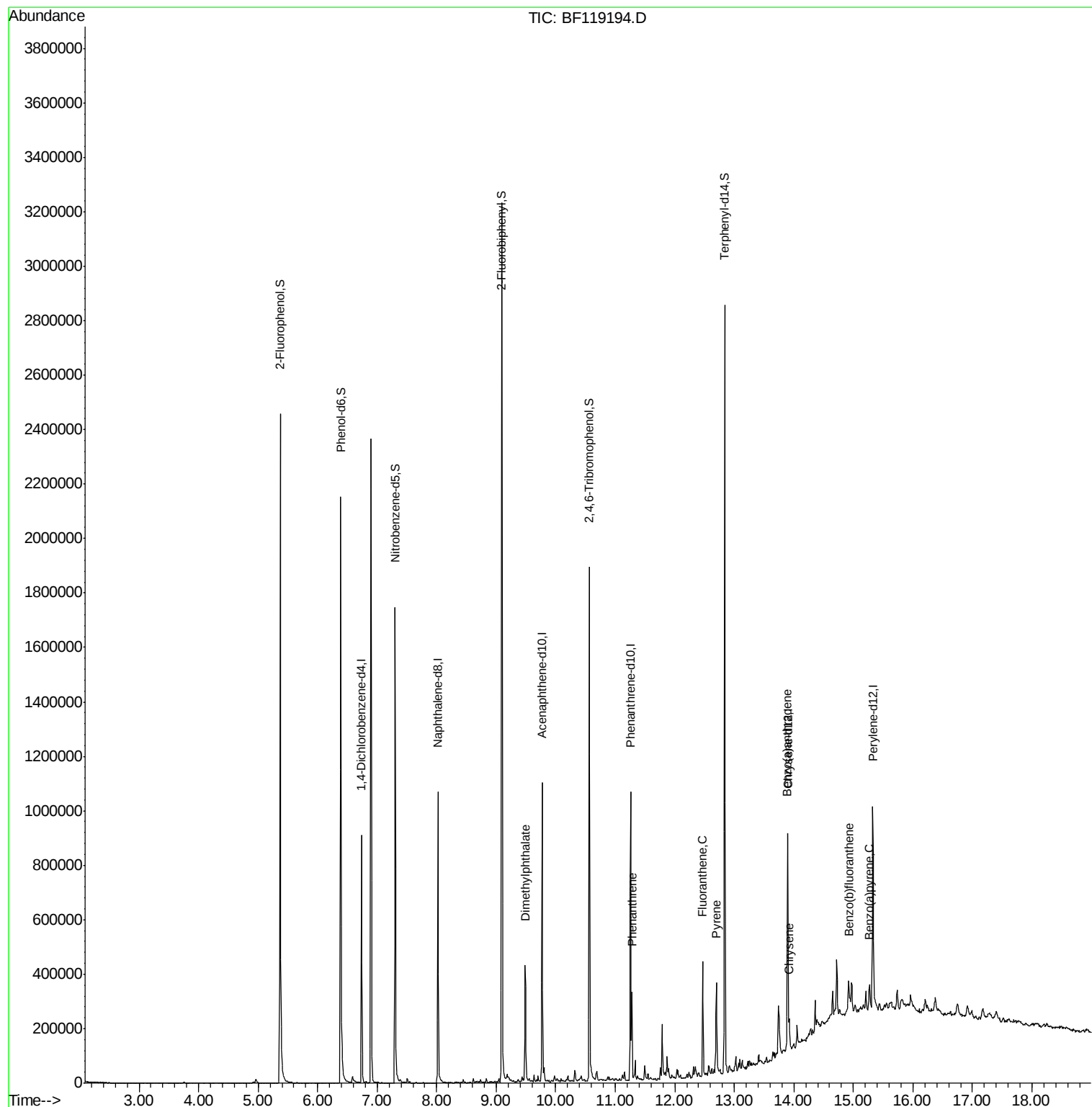
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030420\  
Data File : BF119194.D  
Acq On : 4 Mar 2020 14:55  
Operator : CG/JU  
Sample : L1762-07  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

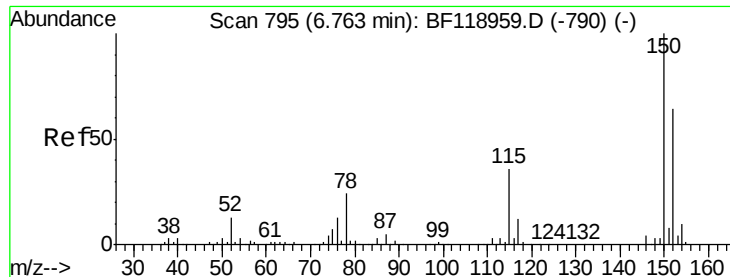
Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-030220

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM

Quant Time: Mar 04 16:34:09 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 26 16:03:05 2020  
Response via : Initial Calibration





#1

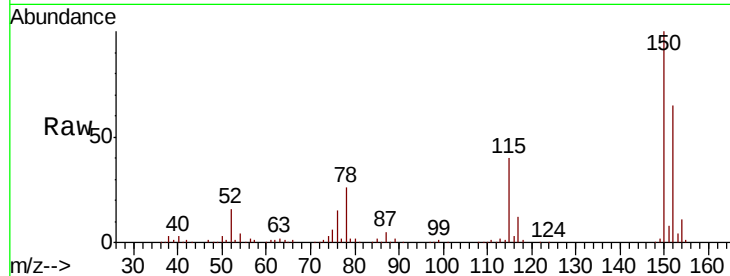
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.74 min Scan# 791  
Delta R.T. -0.01 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-030220

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.8 | 123.0 | 184.6 |
| 115     | 61.4  | 49.5  | 74.3  |

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM

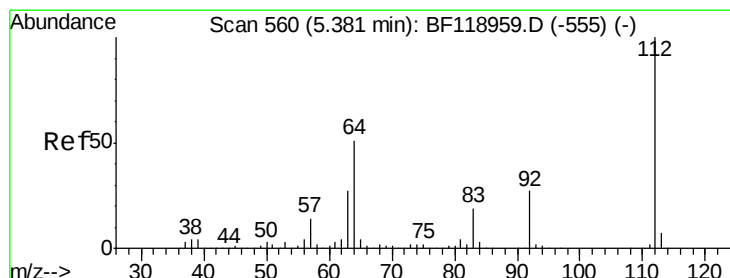
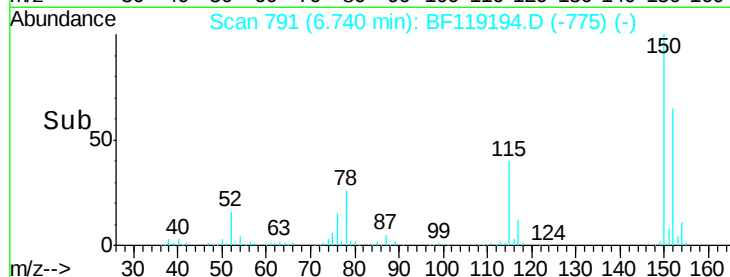
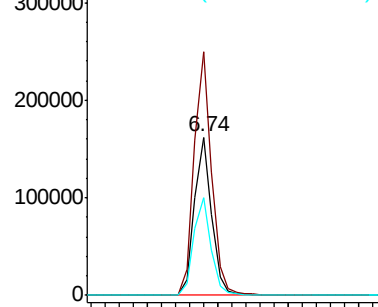


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

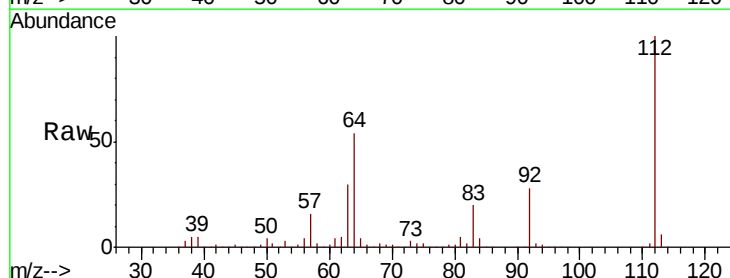
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 91.559 ng  
RT: 5.37 min Scan# 558  
Delta R.T. 0.00 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 45.0  | 67.4  |
| 63      | 29.8  | 24.2  | 36.4  |

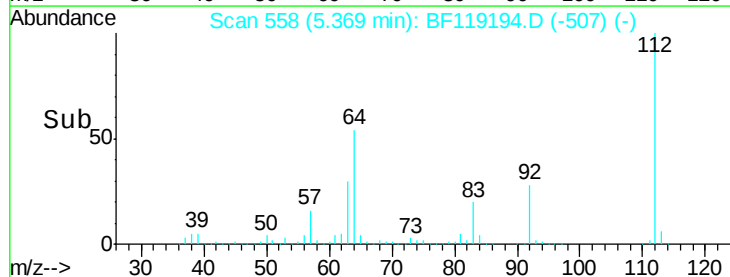
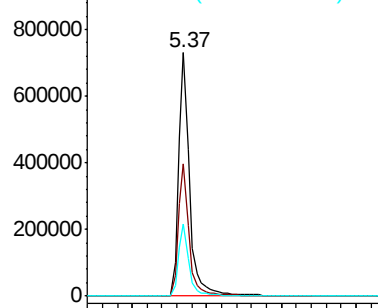


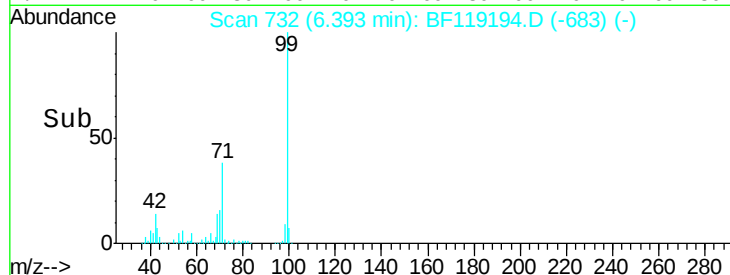
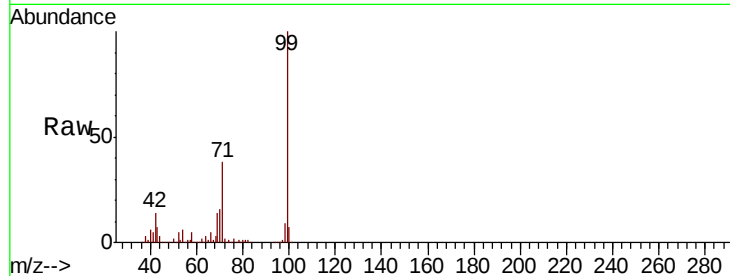
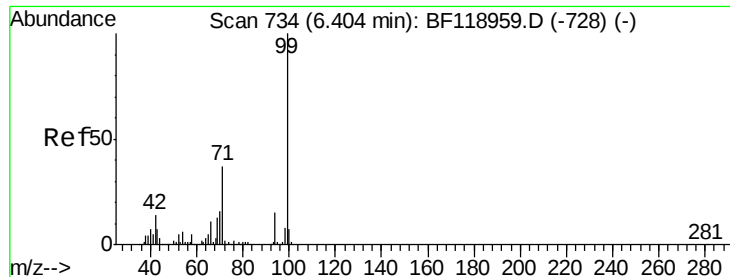
Abundance

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: 90.443 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 911577 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 14.1  | 12.6  | 18.8   |
| 71       | 37.6  | 31.0  | 46.4   |

Instrument :

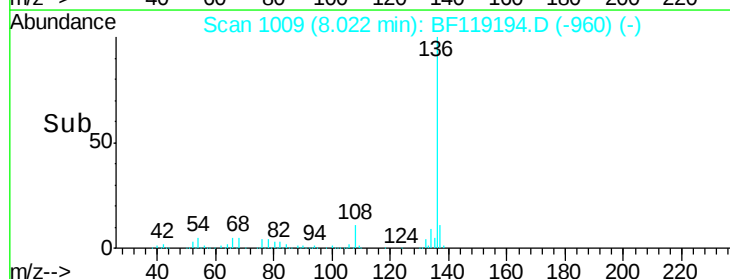
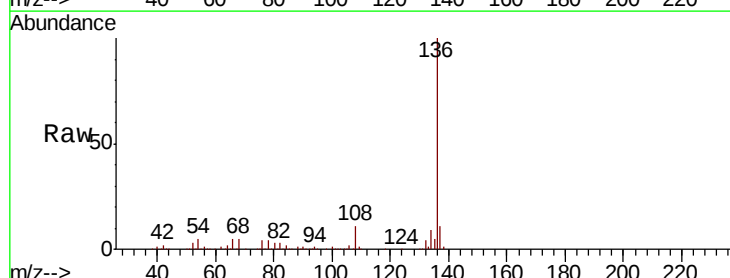
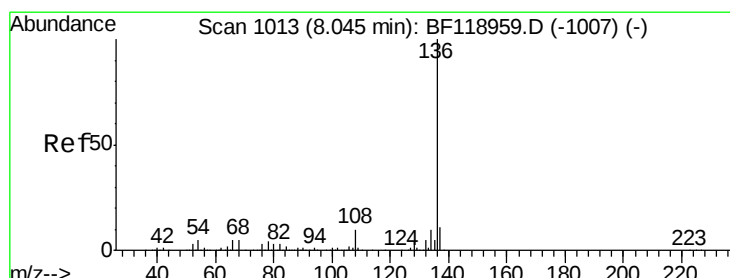
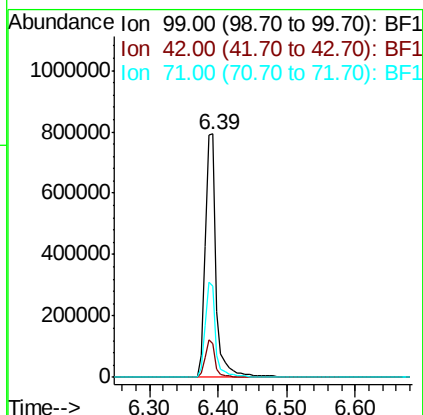
BNA\_F

ClientSampled :

TR-06-030220

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM



#21

Naphthalene-d8

Concen: 20.000 ng

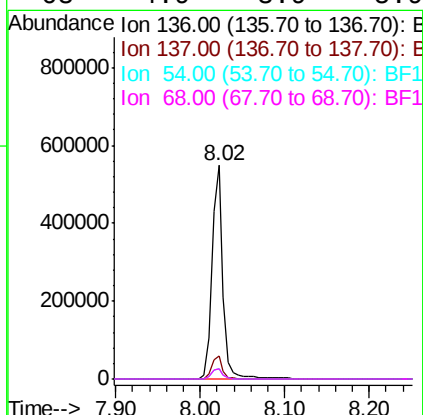
RT: 8.02 min Scan# 1009

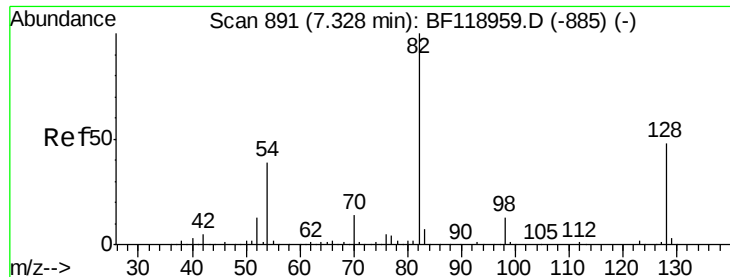
Delta R.T. -0.01 min

Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 505202 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.8   | 13.2   |
| 54       | 4.8   | 3.8   | 5.6    |
| 68       | 4.9   | 3.9   | 5.9    |





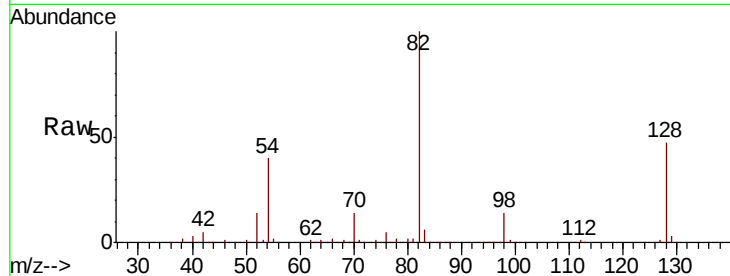
#23  
Nitrobenzene-d5  
Concen: 62.193 ng  
RT: 7.30 min Scan# 887  
Delta R.T. -0.02 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-030220

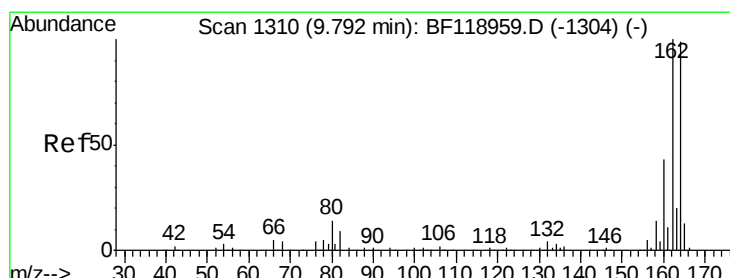
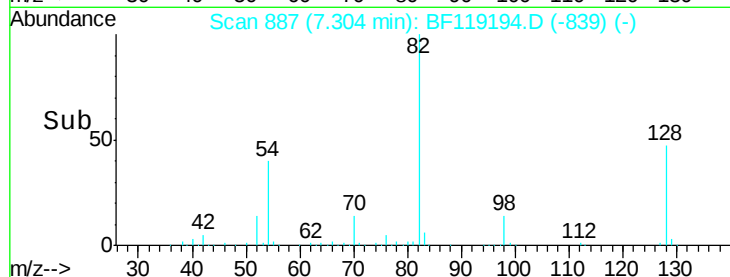
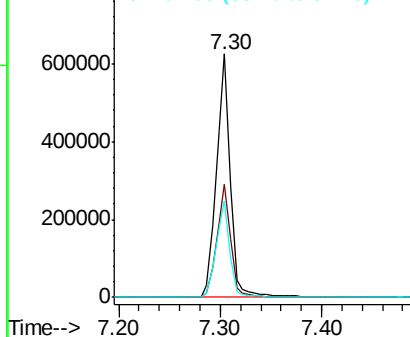
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 82    | Resp: | 595074 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.6  | 37.9  | 56.9   |
| 54       | 39.6  | 33.4  | 50.2   |

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM



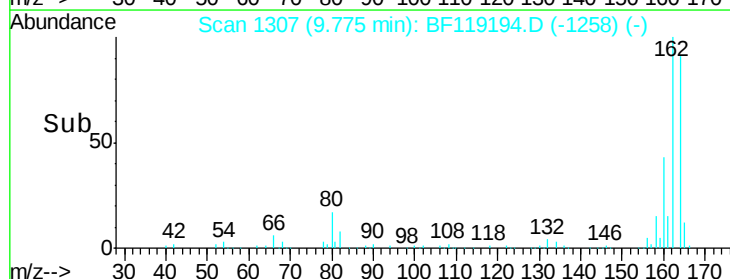
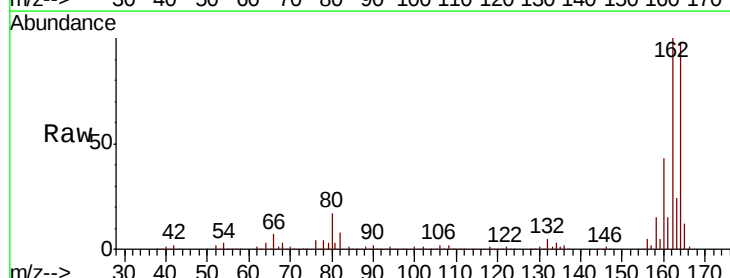
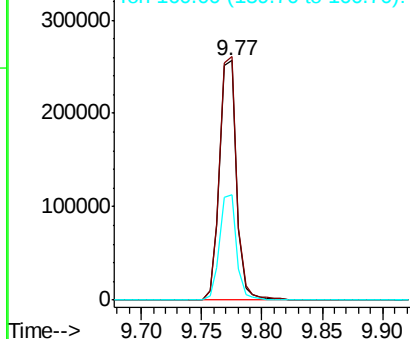
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

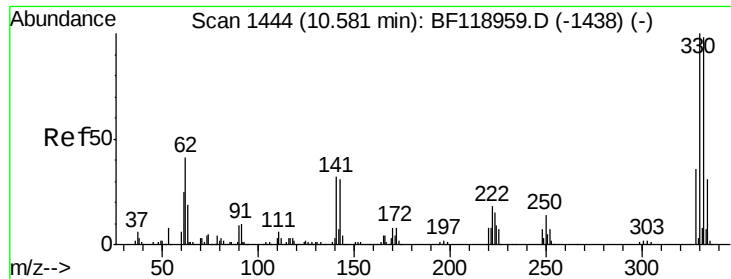


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.77 min Scan# 1307  
Delta R.T. -0.01 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 250427 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 101.7 | 81.8  | 122.8  |
| 160      | 44.1  | 36.0  | 54.0   |

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





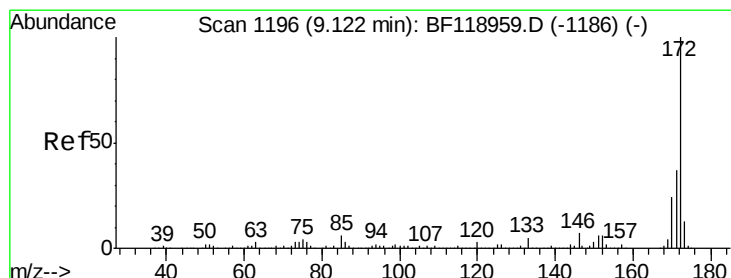
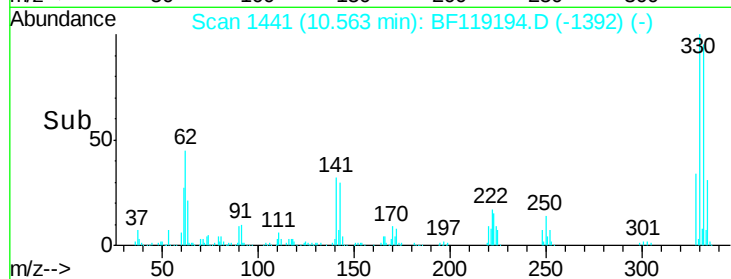
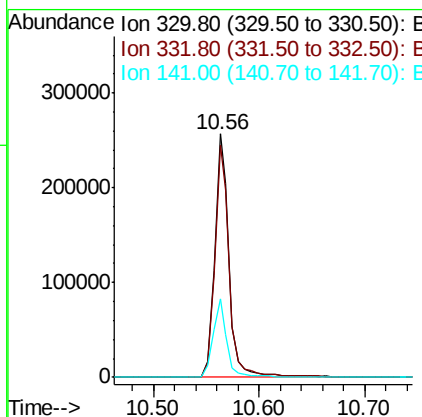
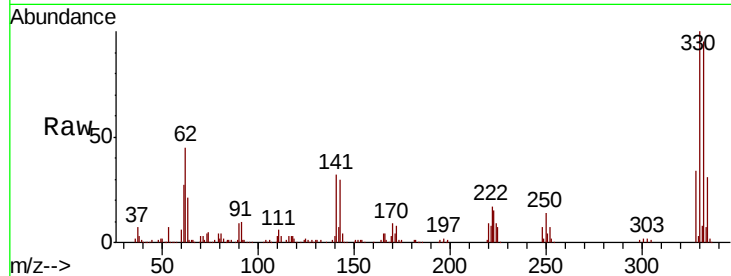
#42  
 2,4,6-Tribromophenol  
 Concen: 75.900 ng  
 RT: 10.56 min Scan# 1441  
 Delta R.T. -0.01 min  
 Lab File: BF119194.D  
 Acq: 4 Mar 2020 14:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-06-030220

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 248649 |       |       |
| 332     | 96.9  |        | 76.0  | 114.0 |
| 141     | 31.2  |        | 22.9  | 34.3  |

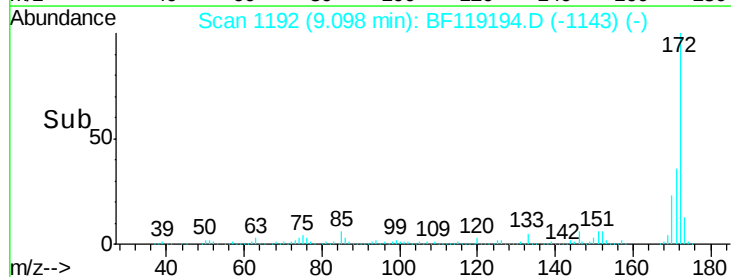
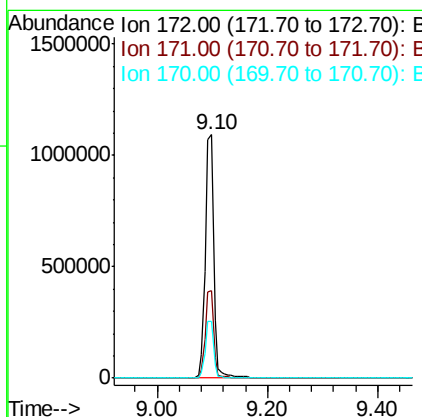
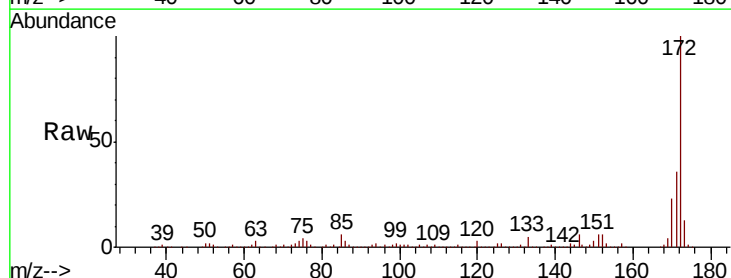
Manual Integrations  
 APPROVED

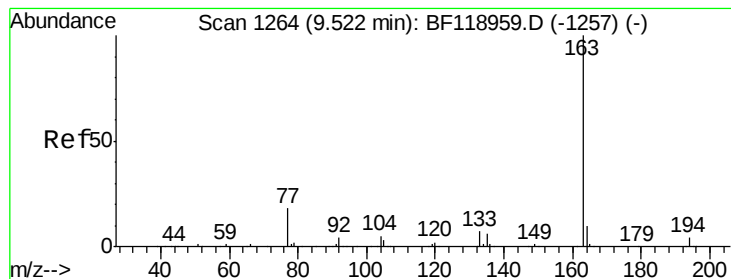
mohammad  
 3/5/2020 3:54:21 PM



#45  
 2-Fluorobiphenyl  
 Concen: 66.598 ng  
 RT: 9.10 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF119194.D  
 Acq: 4 Mar 2020 14:55

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1132102 |       |       |
| 171     | 35.9  |         | 30.6  | 45.8  |
| 170     | 23.5  |         | 20.2  | 30.2  |





#50

Dimethylphthalate

Concen: 9.708 ng

RT: 9.49 min Scan# 1258

Delta R.T. -0.03 min

Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

Instrument :

BNA\_F

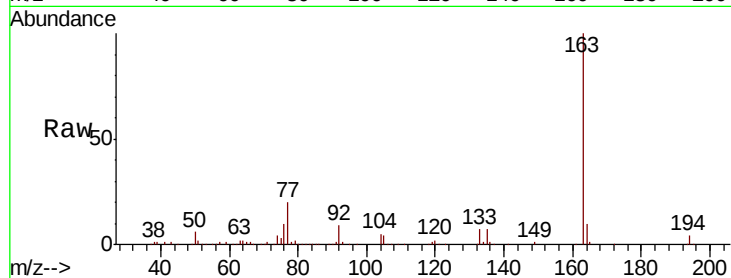
ClientSampleId :

TR-06-030220

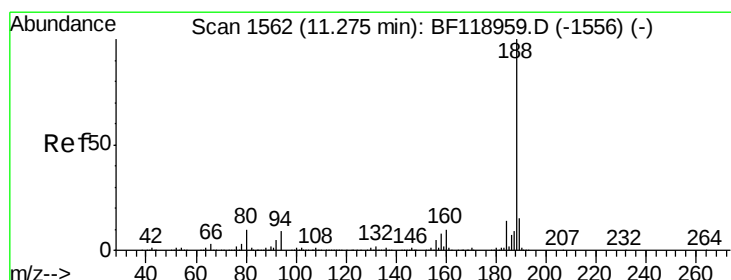
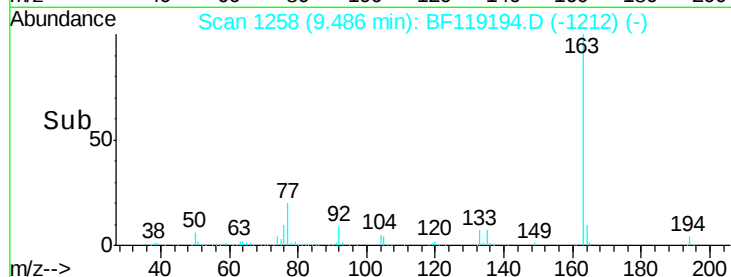
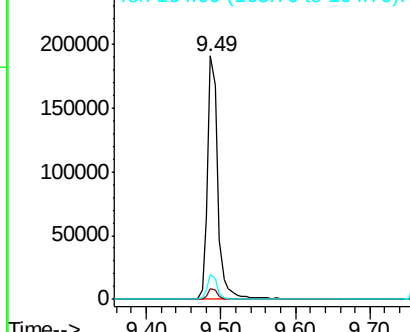
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 185905 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.1   | 3.5   | 5.3    |
| 164       | 10.1  | 8.4   | 12.6   |

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM



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

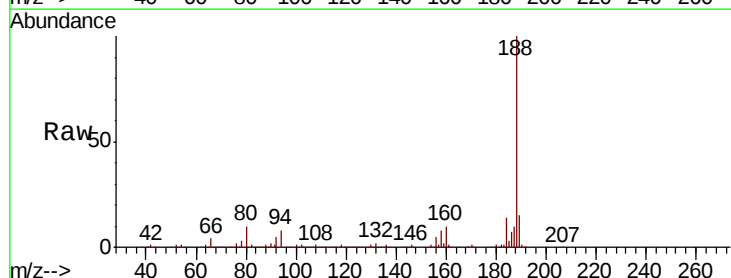
RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

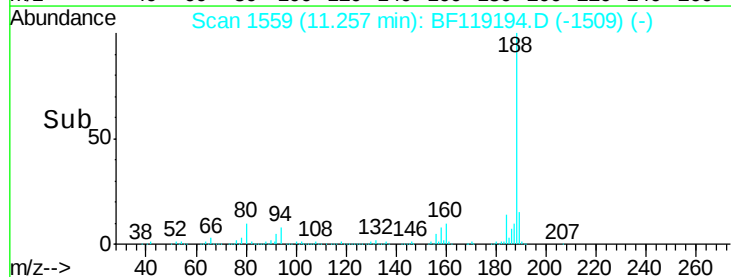
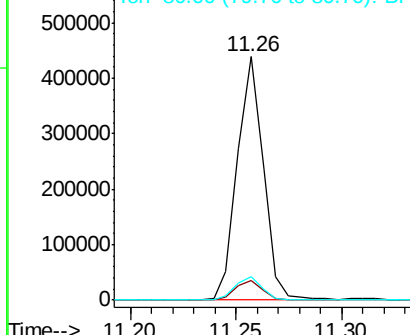
Lab File: BF119194.D

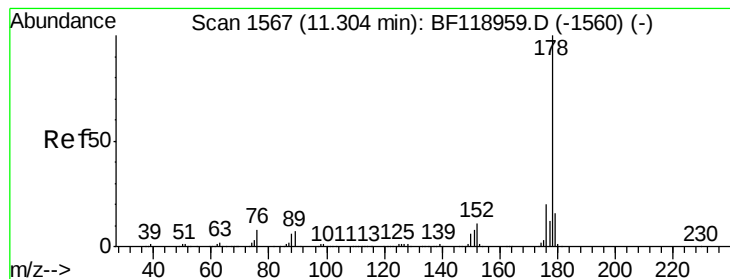
Acq: 4 Mar 2020 14:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 376417 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.3   | 7.1   | 10.7   |
| 80        | 9.7   | 7.8   | 11.8   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 5.376 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

Instrument :

BNA\_F

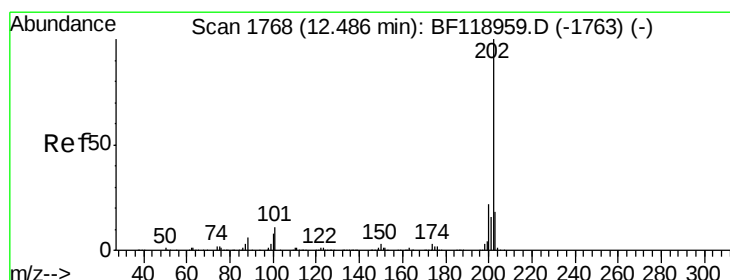
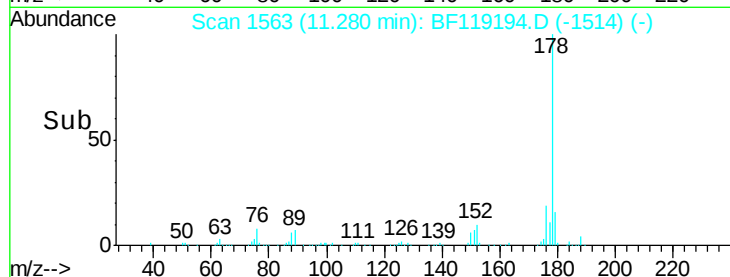
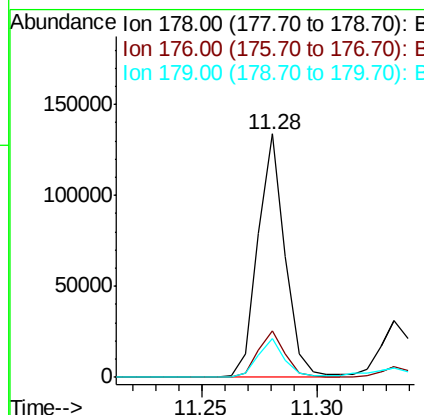
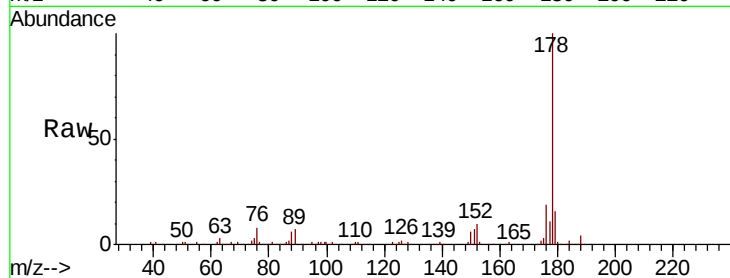
ClientSampleId :

TR-06-030220

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 110354 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.9  | 16.5  | 24.7   |
| 179       | 15.8  | 13.0  | 19.6   |

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM



#75

Fluoranthene

Concen: 7.205 ng

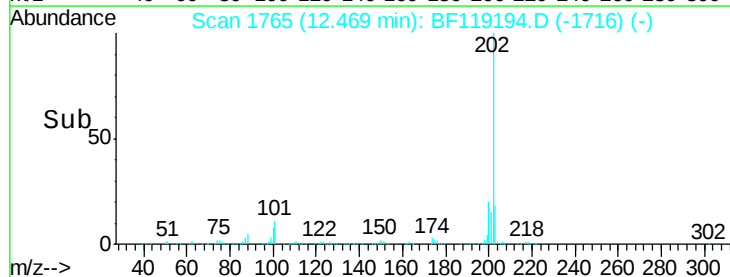
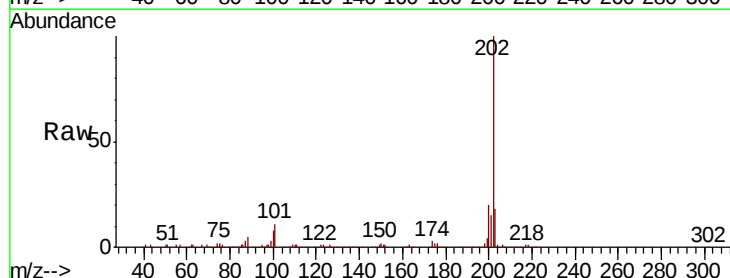
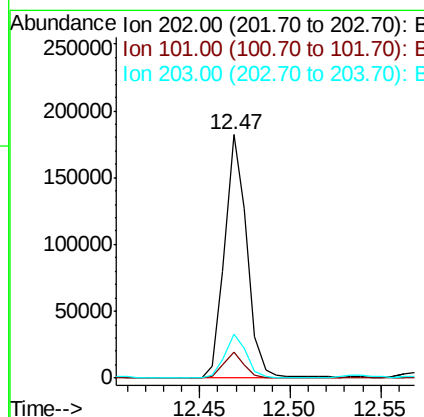
RT: 12.47 min Scan# 1765

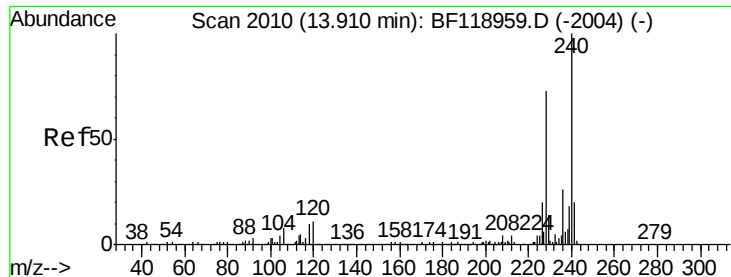
Delta R.T. -0.01 min

Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 157005 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.9  | 0.0   | 30.3   |
| 203       | 18.2  | 0.0   | 38.4   |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

Instrument :

BNA\_F

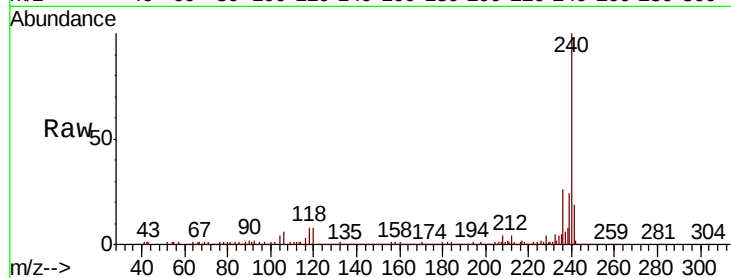
ClientSampleId :

TR-06-030220

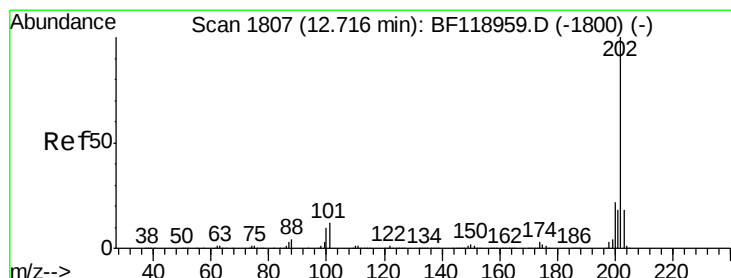
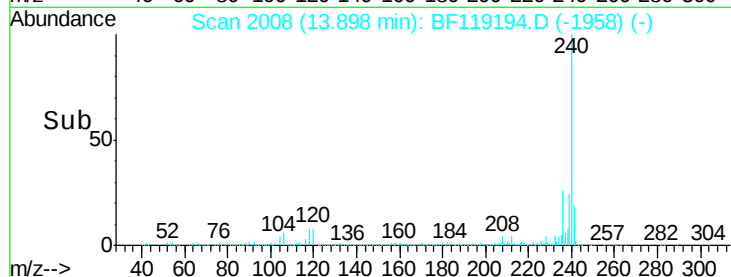
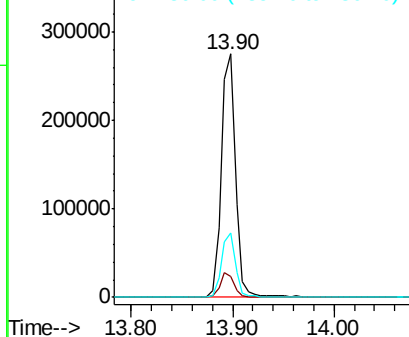
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 267434 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.5   | 8.4   | 12.6   |
| 236       | 26.3  | 21.0  | 31.4   |

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM



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: 6.259 ng

RT: 12.70 min Scan# 1804

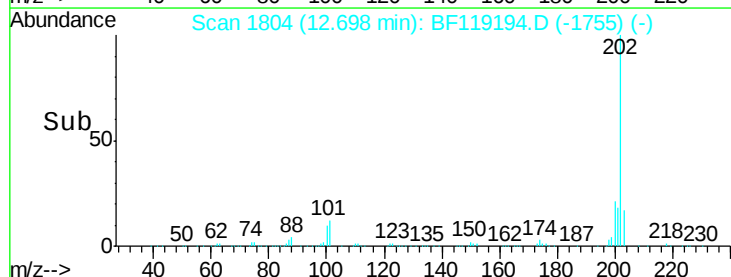
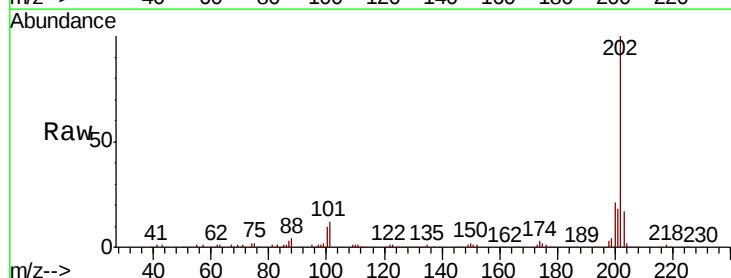
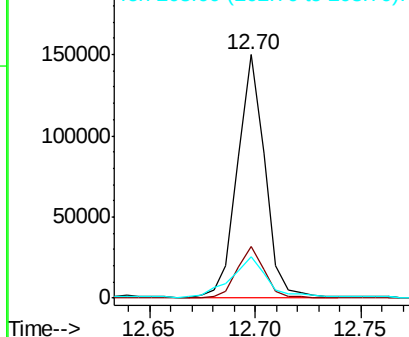
Delta R.T. -0.01 min

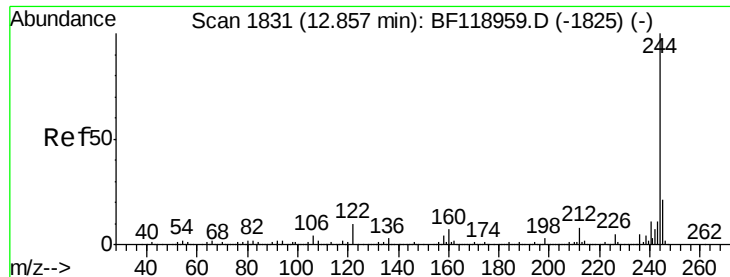
Lab File: BF119194.D

Acq: 4 Mar 2020 14:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 134403 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.3  | 18.0  | 27.0   |
| 203       | 17.2  | 14.6  | 22.0   |

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





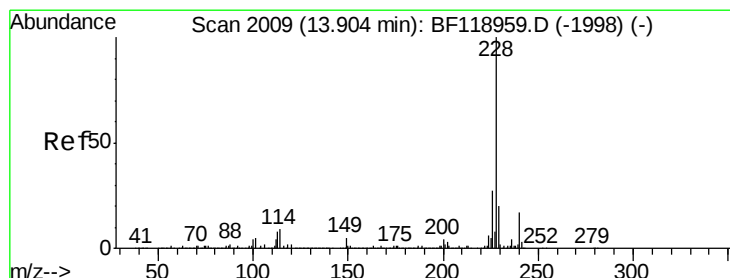
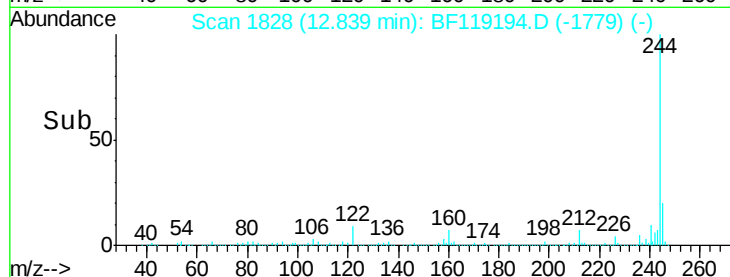
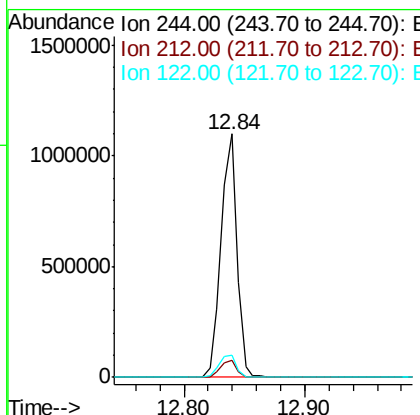
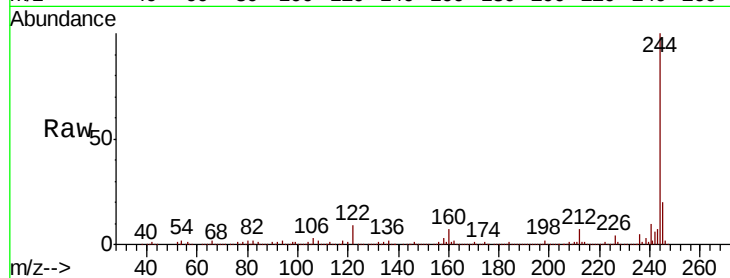
#79  
 Terphenyl-d14  
 Concen: 64.440 ng  
 RT: 12.84 min Scan# 1828  
 Delta R.T. -0.01 min  
 Lab File: BF119194.D  
 Acq: 4 Mar 2020 14:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-06-030220

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 6.6   | 10.0  |
| 122     | 9.3   | 8.2   | 12.2  |

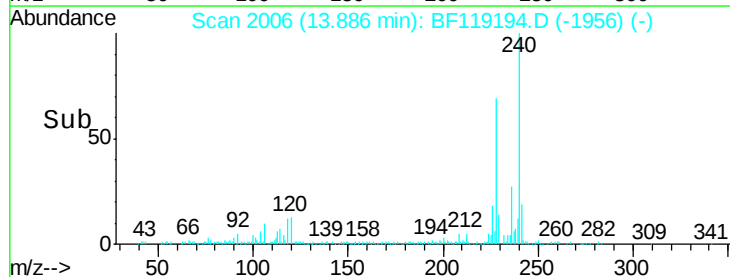
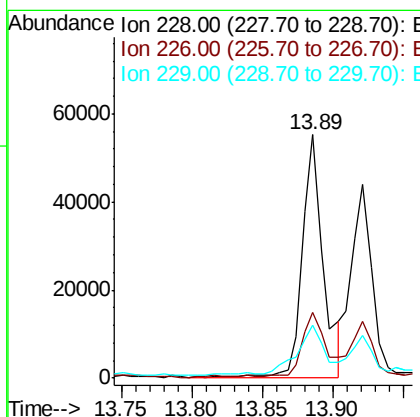
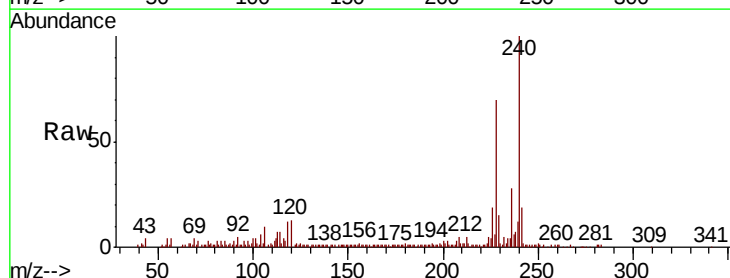
Manual Integrations  
 APPROVED

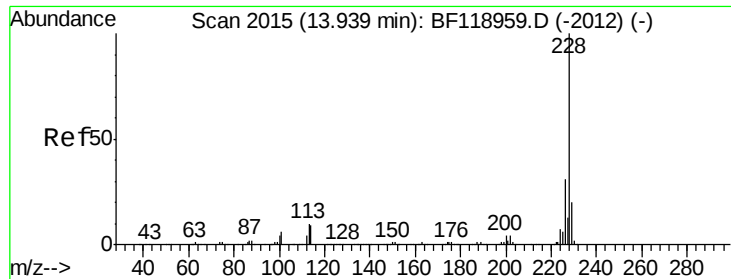
mohammad  
 3/5/2020 3:54:21 PM



#81  
 Benzo(a)anthracene  
 Concen: 3.163 ng  
 RT: 13.89 min Scan# 2006  
 Delta R.T. -0.01 min  
 Lab File: BF119194.D  
 Acq: 4 Mar 2020 14:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.1  | 22.6  | 33.8  |
| 229     | 21.9  | 16.6  | 24.8  |





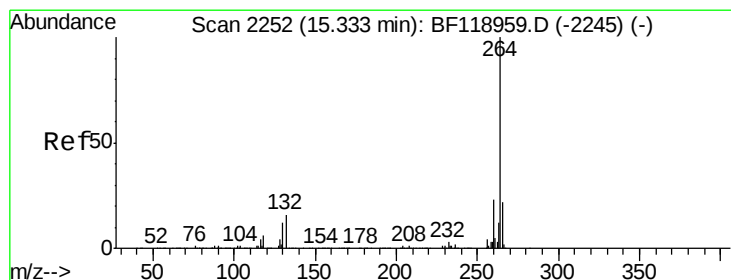
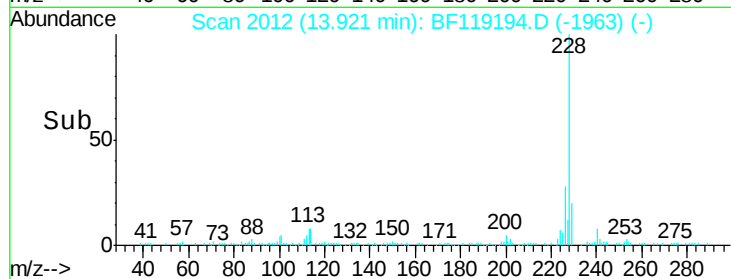
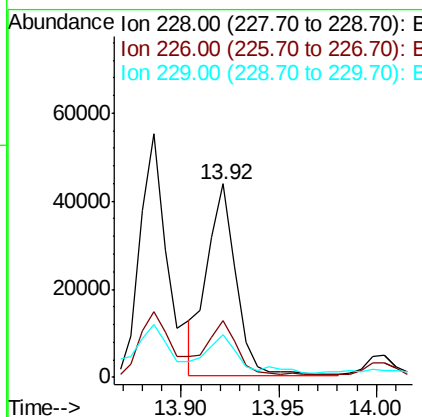
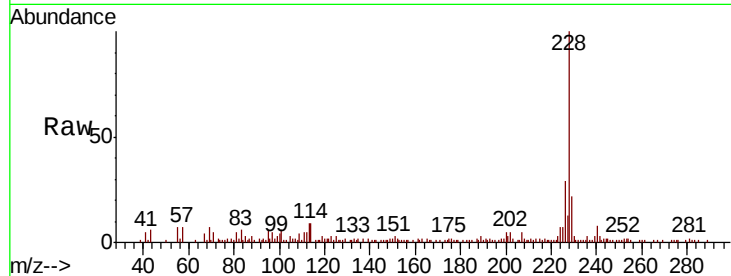
#83  
Chrysene  
Concen: 2.499 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. -0.01 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-030220

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 45381 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.1  | 25.1  | 37.7  |
| 229       | 22.3  | 16.3  | 24.5  |

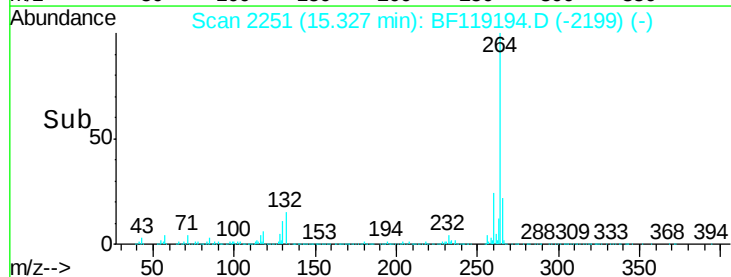
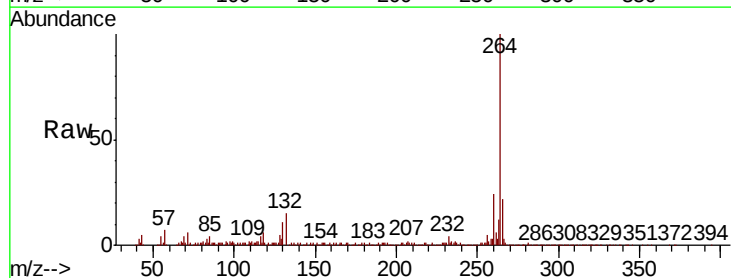
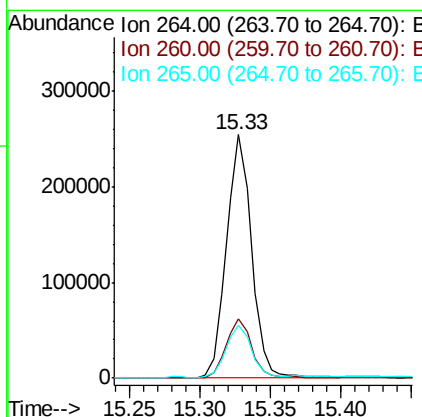
Manual Integrations  
APPROVED

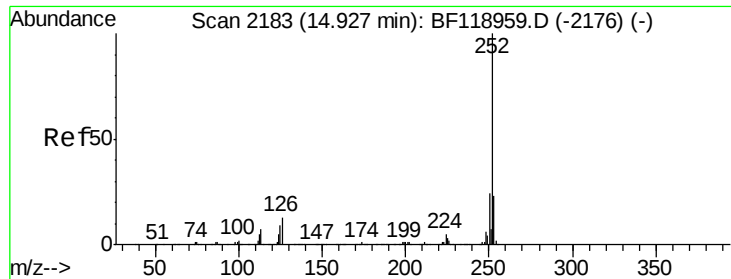
mohammad  
3/5/2020 3:54:21 PM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.33 min Scan# 2251  
Delta R.T. 0.01 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 314711 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.1  | 19.4  | 29.2   |
| 265       | 21.8  | 17.7  | 26.5   |





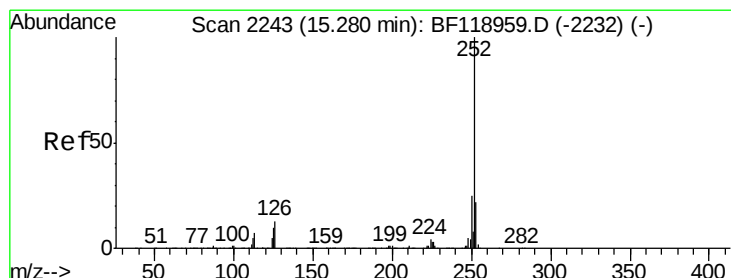
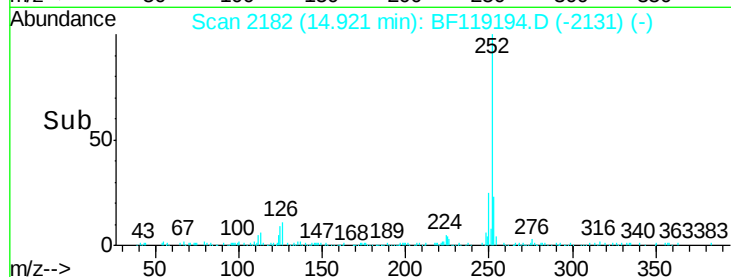
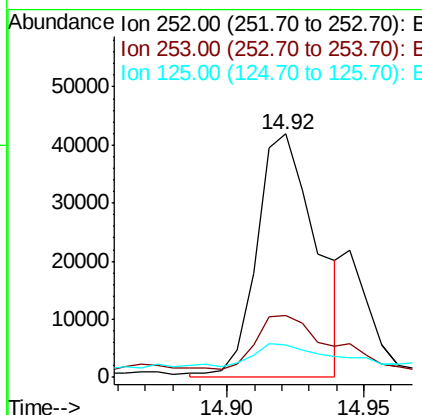
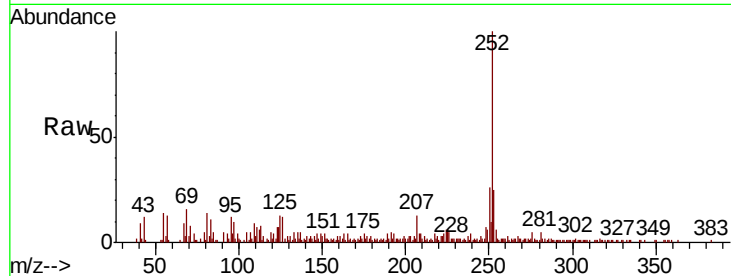
#88  
Benzo(b)fluoranthene  
Concen: 3.058 ng m  
RT: 14.92 min Scan# 2182  
Delta R.T. 0.00 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

Instrument :  
BNA\_F  
ClientSampleId :  
TR-06-030220

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 18.1  | 27.1  |
| 125     | 13.2  | 7.4   | 11.0  |

Manual Integrations  
APPROVED

mohammad  
3/5/2020 3:54:21 PM



#90  
Benzo(a)pyrene  
Concen: 2.272 ng  
RT: 15.27 min Scan# 2241  
Delta R.T. 0.00 min  
Lab File: BF119194.D  
Acq: 4 Mar 2020 14:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 18.0  | 27.0  |
| 125     | 15.1  | 8.6   | 12.8  |

