

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052820\  
 Data File : BF120423.D  
 Acq On : 28 May 2020 22:24  
 Operator : MA/SJ  
 Sample : L2744-18  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM67-COMP-2020-0-6

Manual Integrations  
 APPROVED

mohammad  
 5/29/2020 10:28:35 PM

Quant Time: May 29 05:25:02 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 28 13:47:54 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 231327   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.12  | 136  | 780469   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.87  | 164  | 346400   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.36 | 188  | 599688   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.00 | 240  | 533911   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.45 | 264  | 481524   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 1218352  | 100.37 | ng    | 0.00     |
| 7) Phenol-d6                | 6.47  | 99   | 1462554  | 97.75  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 894846   | 75.00  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 324290   | 101.04 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1575943  | 77.19  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.94 | 244  | 1565839  | 65.26  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.59  | 163  | 309944   | 14.312 | ng    | 99       |
| 71) Phenanthrene            | 11.38 | 178  | 179876   | 6.807  | ng    | 97       |
| 75) Fluoranthene            | 12.57 | 202  | 402835   | 14.168 | ng    | 98       |
| 78) Pyrene                  | 12.80 | 202  | 406972   | 10.961 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.99 | 228  | 249938   | 8.735  | ng    | 98       |
| 83) Chrysene                | 14.02 | 228  | 205012   | 6.834  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.89 | 276  | 109243   | 4.148  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 15.03 | 252  | 273792m  | 10.237 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.05 | 252  | 81645m   | 3.270  | ng    |          |
| 90) Benzo(a)pyrene          | 15.39 | 252  | 187108   | 7.998  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.32 | 276  | 103959   | 4.909  | ng    | 98       |

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

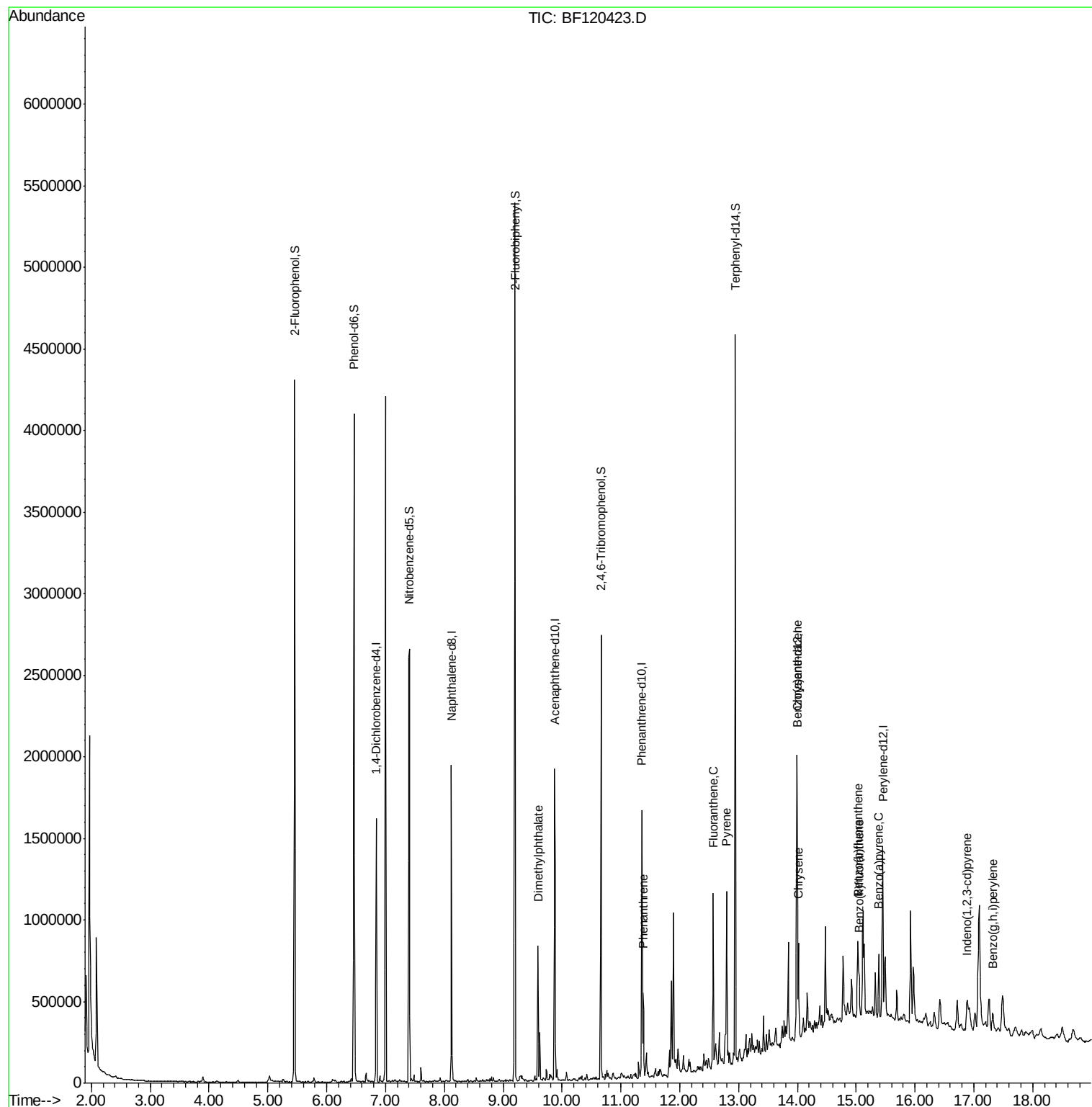
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052820\  
Data File : BF120423.D  
Acq On : 28 May 2020 22:24  
Operator : MA/SJ  
Sample : L2744-18  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

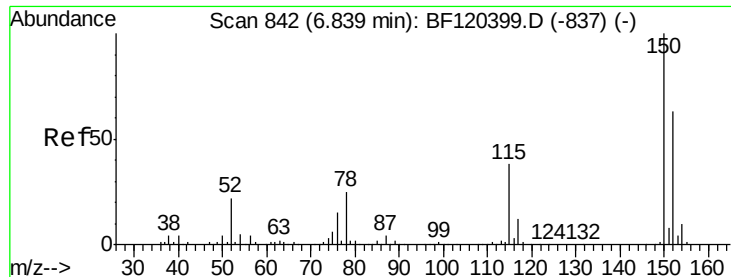
Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

Manual Integrations  
APPROVED

mohammad  
5/29/2020 10:28:35 PM

Quant Time: May 29 05:25:02 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 28 13:47:54 2020  
Response via : Initial Calibration





#1

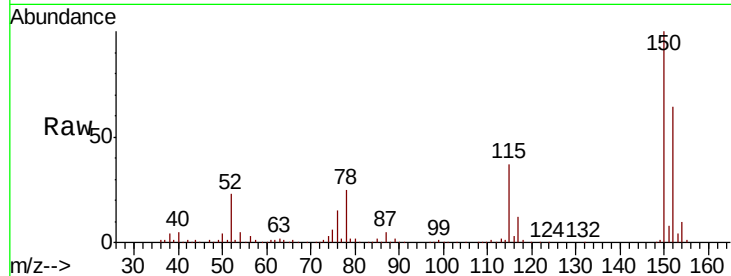
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 842  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.2 | 126.5 | 189.7 |
| 115     | 58.9  | 47.6  | 71.4  |

Manual Integrations  
APPROVED

mohammad  
5/29/2020 10:28:35 PM

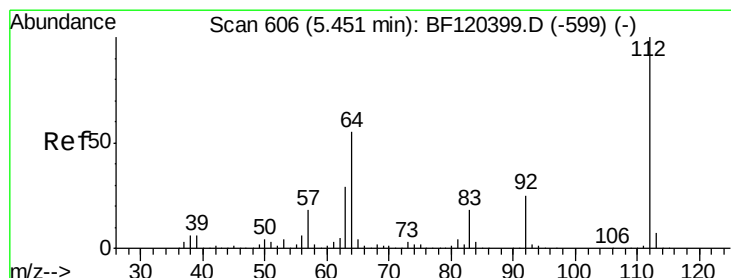
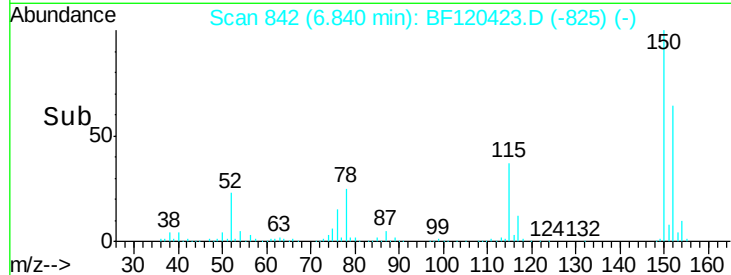
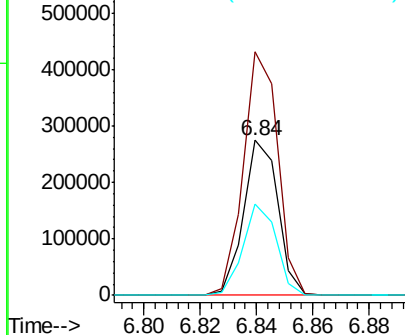


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

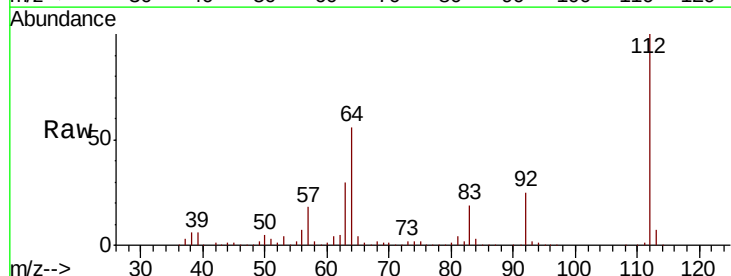
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 100.372 ng  
RT: 5.46 min Scan# 607  
Delta R.T. 0.01 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.3  | 44.3  | 66.5  |
| 63      | 29.8  | 22.9  | 34.3  |

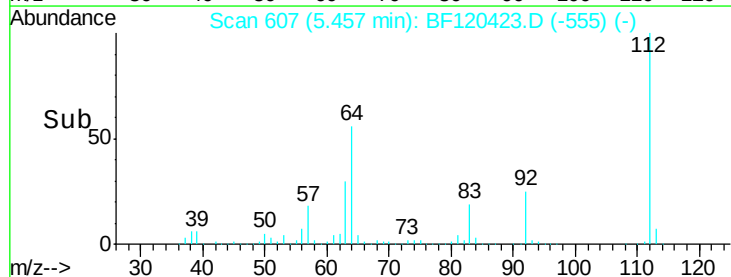
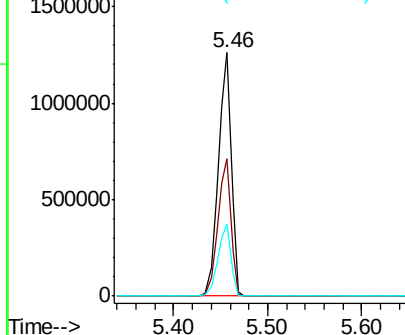


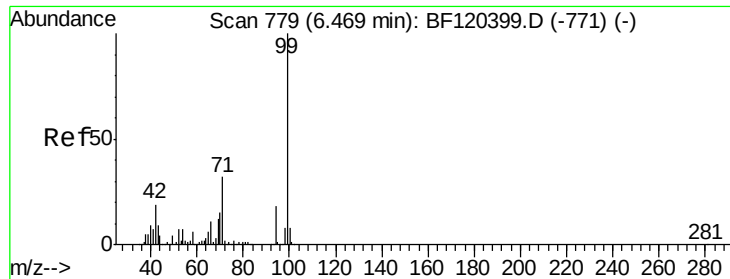
Abundance

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: 97.755 ng

RT: 6.47 min Scan# 779

Delta R.T. 0.00 min

Lab File: BF120423.D

Acq: 28 May 2020 22:24

Instrument :

BNA\_F

ClientSampleId :

NM67-COMP-2020-0-6

Tot Ion: 99 Resp: 1462554

Ion Ratio Lower Upper

99 100

42 18.8 15.2 22.8

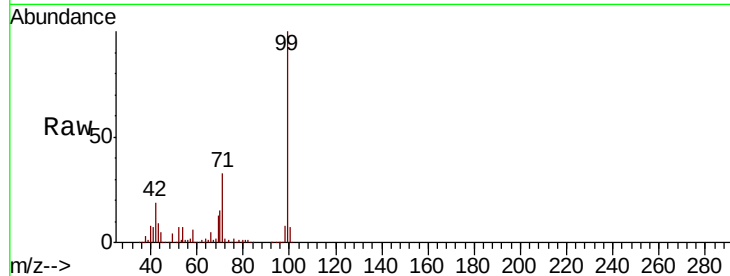
71 33.1 25.6 38.4

Manual Integrations

APPROVED

mohammad

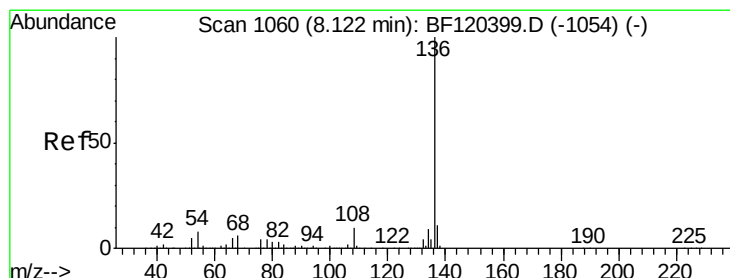
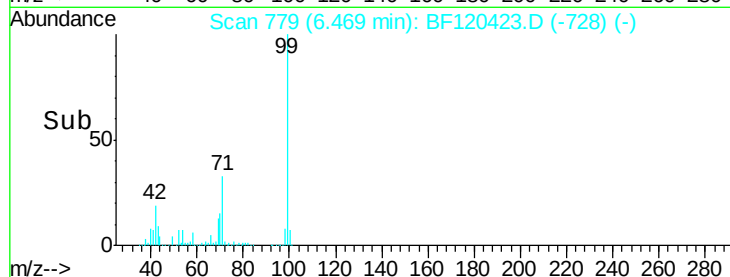
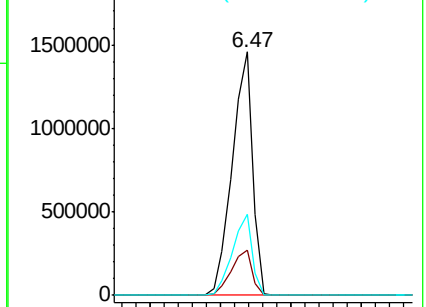
5/29/2020 10:28:35 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BF120423.D

Acq: 28 May 2020 22:24

Tgt Ion: 136 Resp: 780469

Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 8.4 6.7 10.1

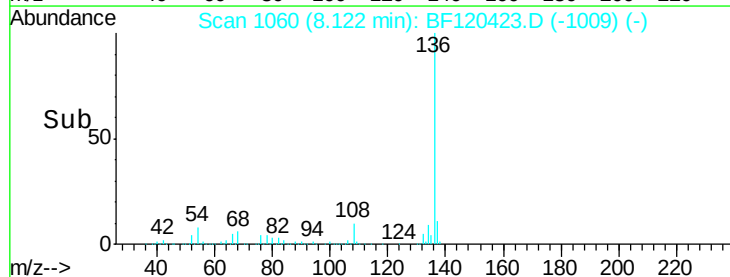
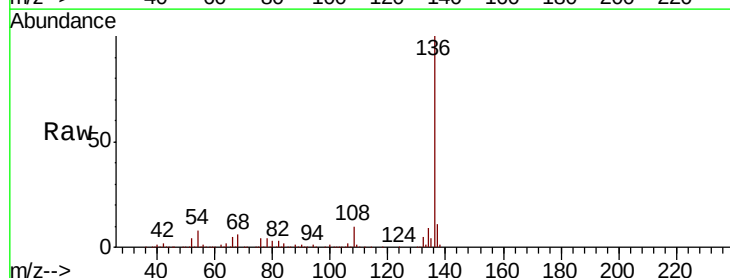
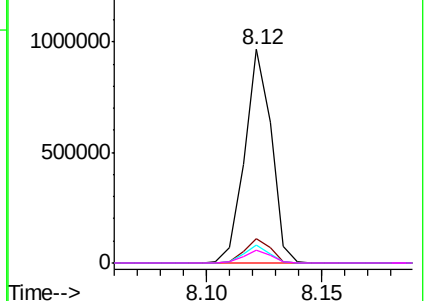
68 6.2 5.0 7.4

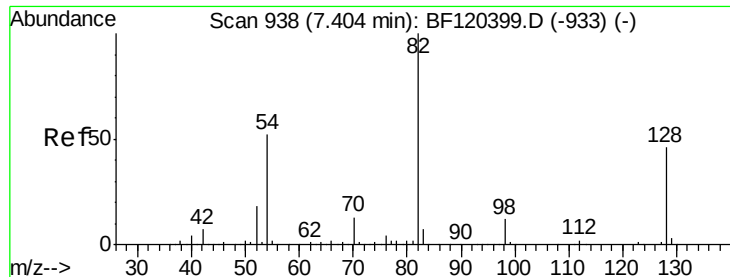
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





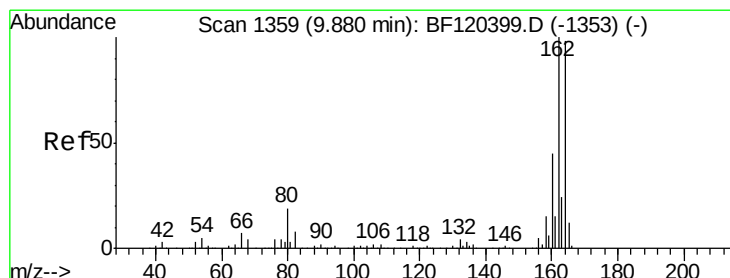
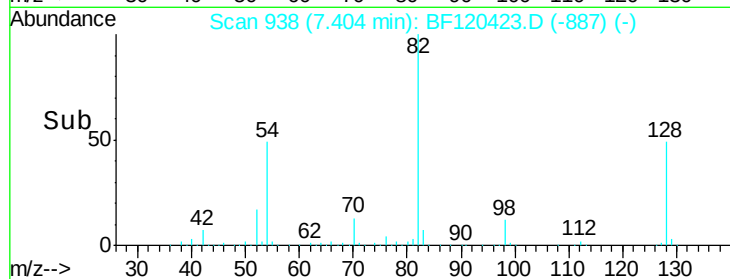
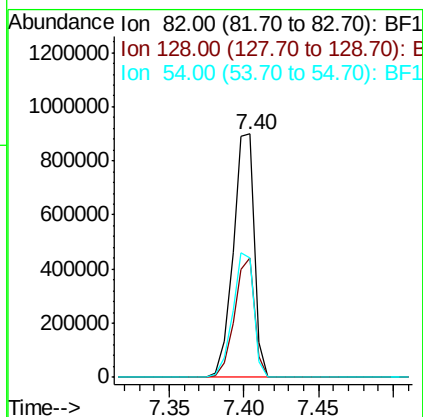
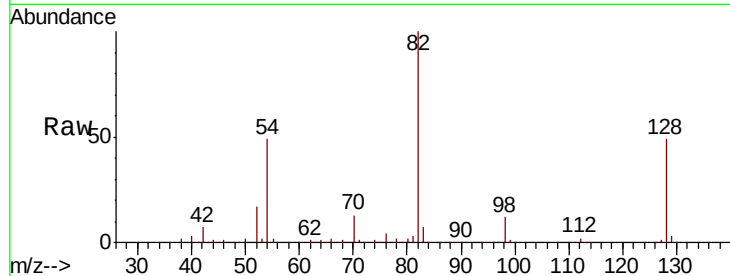
#23  
Nitrobenzene-d5  
Concen: 74.999 ng  
RT: 7.40 min Scan# 938  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.0  | 36.8  | 55.2  |
| 54      | 49.2  | 41.6  | 62.4  |

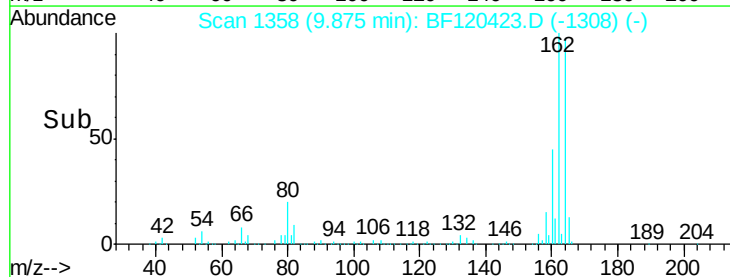
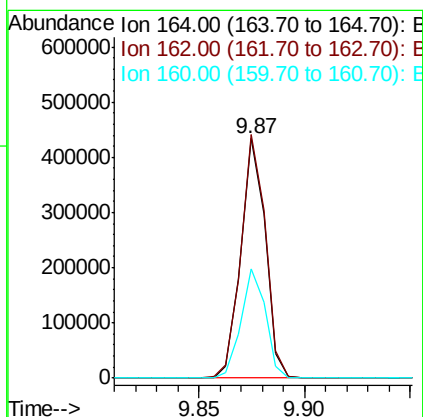
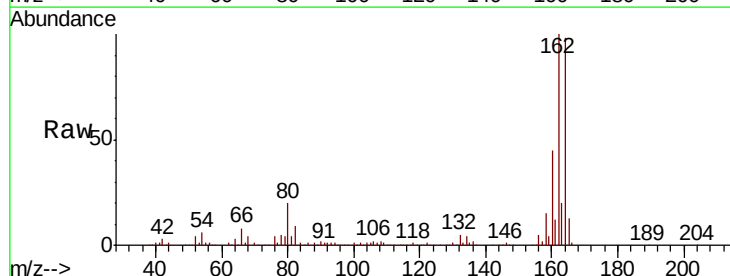
Manual Integrations  
APPROVED

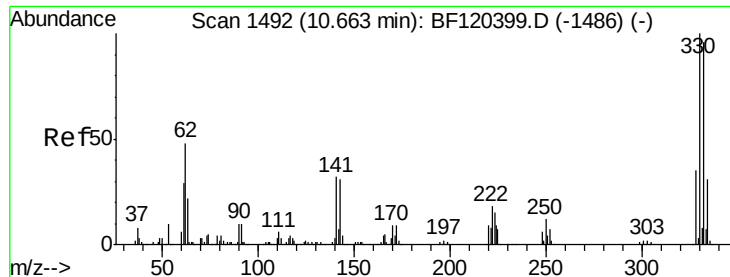
mohammad  
5/29/2020 10:28:35 PM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.87 min Scan# 1358  
Delta R.T. -0.01 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 81.3  | 121.9 |
| 160     | 45.4  | 36.9  | 55.3  |





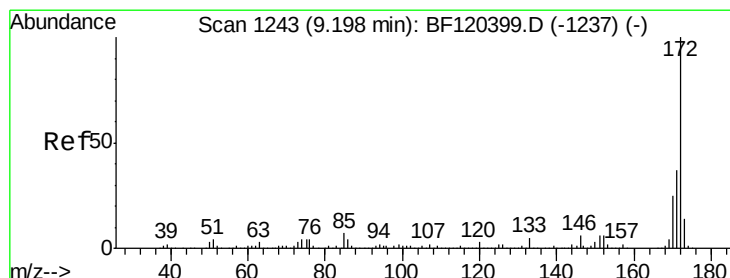
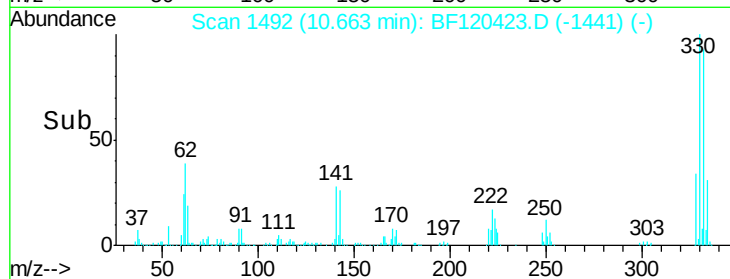
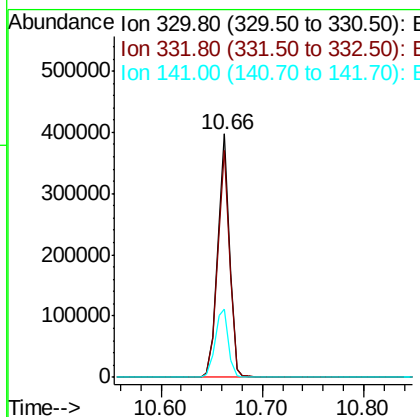
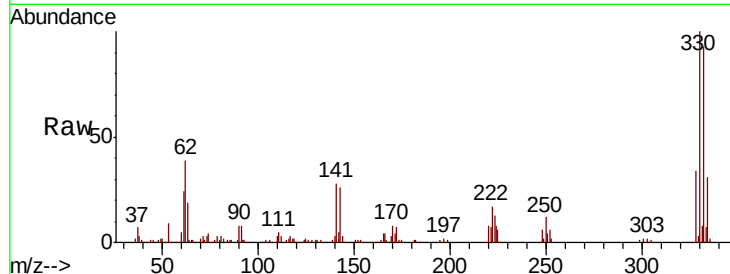
#42  
 2,4,6-Tribromophenol  
 Concen: 101.039 ng  
 RT: 10.66 min Scan# 1492  
 Delta R.T. 0.00 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM67-COMP-2020-0-6

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 324290 |       |       |
| 332     | 94.2  | 77.0   | 115.6 |       |
| 141     | 30.9  | 25.3   | 37.9  |       |

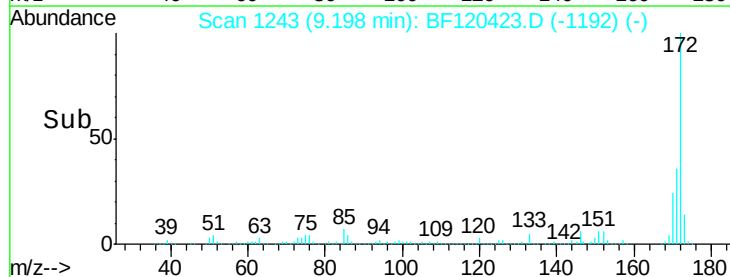
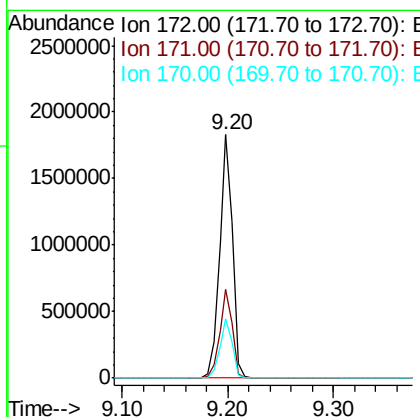
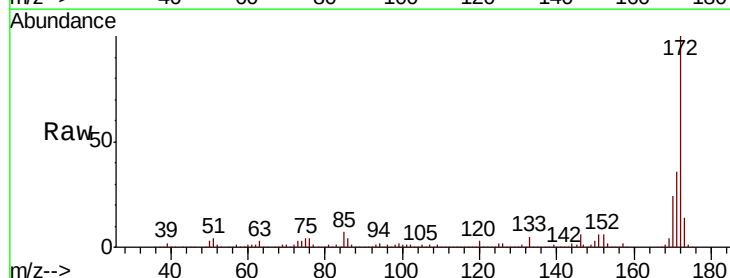
Manual Integrations  
 APPROVED

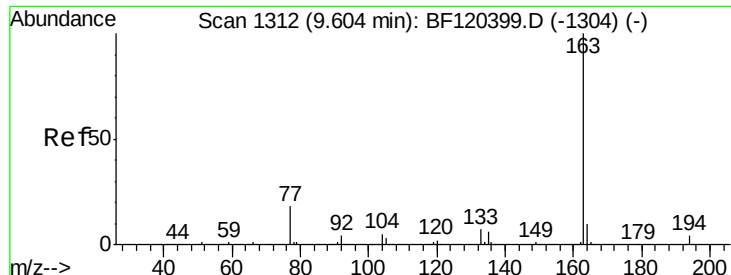
mohammad  
 5/29/2020 10:28:35 PM



#45  
 2-Fluorobiphenyl  
 Concen: 77.191 ng  
 RT: 9.20 min Scan# 1243  
 Delta R.T. 0.00 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1575943 |       |       |
| 171     | 36.2  | 29.7    | 44.5  |       |
| 170     | 24.4  | 19.9    | 29.9  |       |





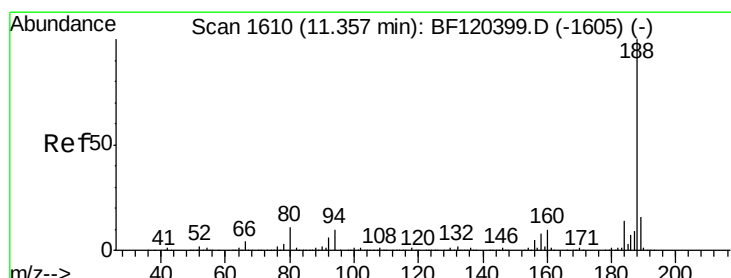
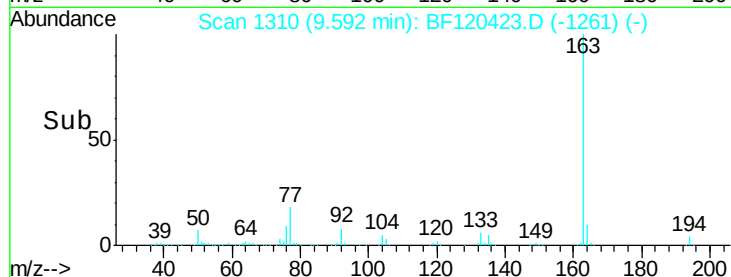
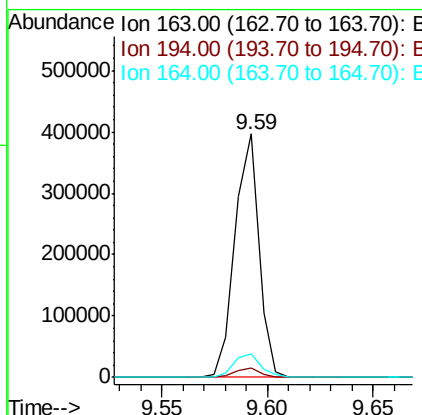
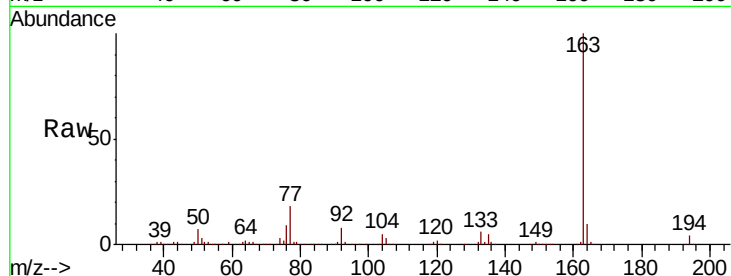
#50  
Dimethylphthalate  
Concen: 14.312 ng  
RT: 9.59 min Scan# 1310  
Delta R.T. -0.01 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 163     | 100 |       | 309944 |       |       |
| 194     | 3.9 |       | 3.3    | 4.9   |       |
| 164     | 9.7 |       | 8.3    | 12.5  |       |

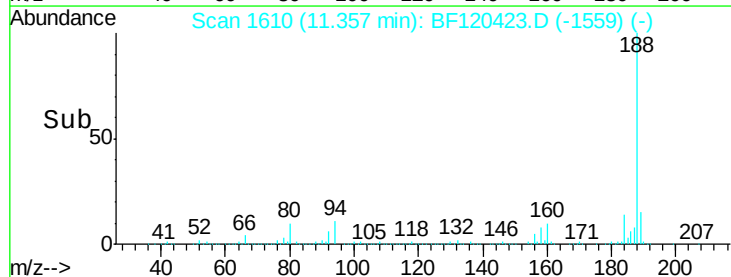
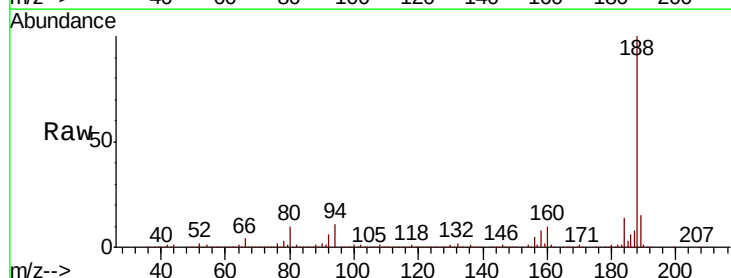
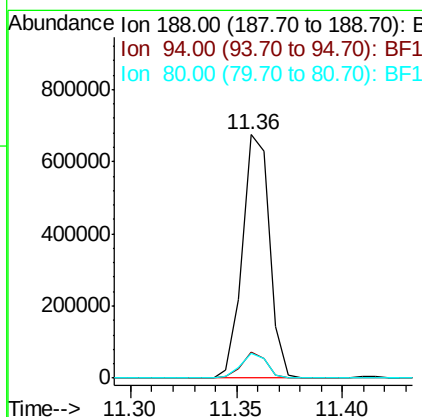
Manual Integrations  
APPROVED

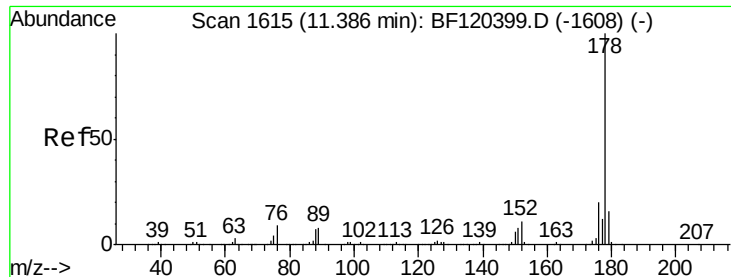
mohammad  
5/29/2020 10:28:35 PM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1610  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 188     | 100  |       | 599688 |       |       |
| 94      | 10.7 |       | 7.9    | 11.9  |       |
| 80      | 10.4 |       | 8.6    | 13.0  |       |





#71

Phenanthrene

Concen: 6.807 ng

RT: 11.38 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF120423.D

Acq: 28 May 2020 22:24

Instrument :

BNA\_F

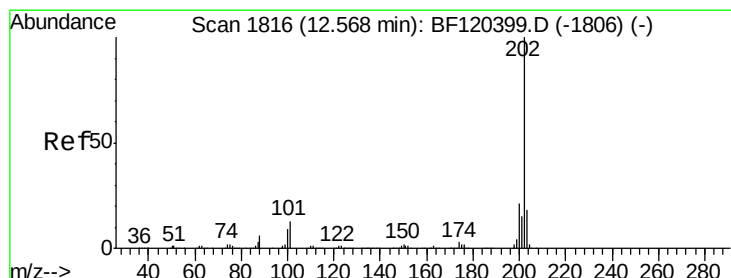
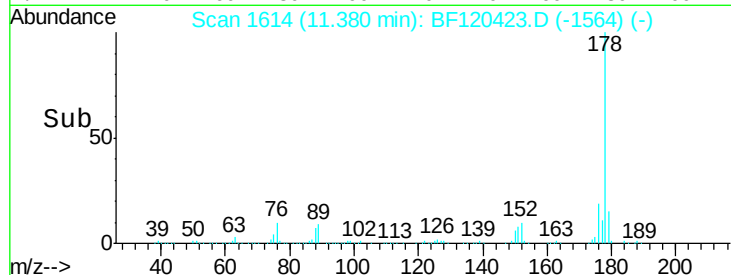
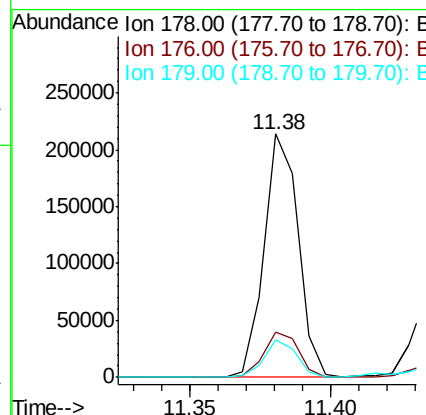
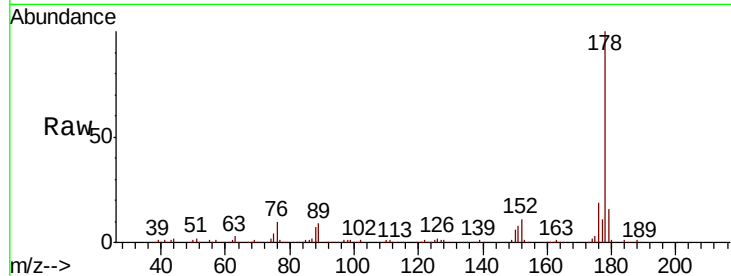
ClientSampleId :

NM67-COMP-2020-0-6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 179876 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.7  | 16.4  | 24.6   |
| 179       | 15.6  | 13.0  | 19.4   |

Manual Integrations  
APPROVED

mohammad  
5/29/2020 10:28:35 PM



#75

Fluoranthene

Concen: 14.168 ng

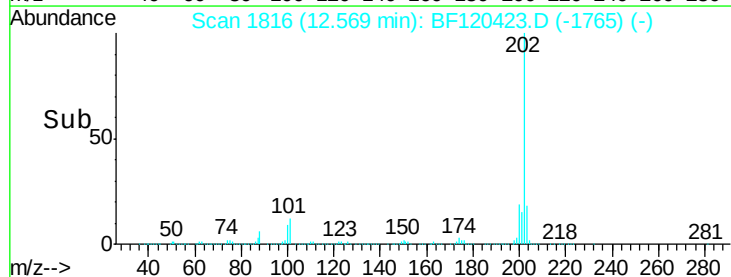
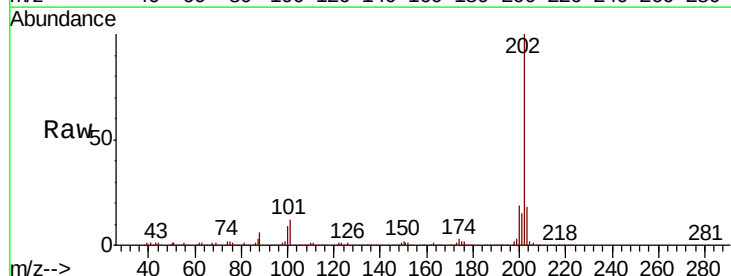
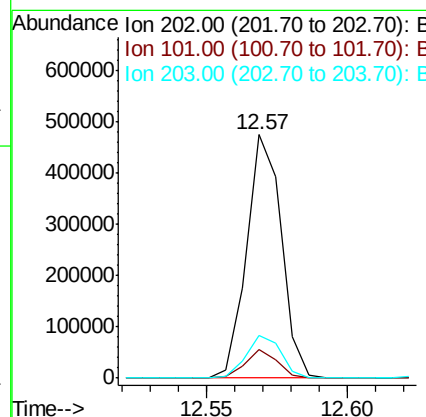
RT: 12.57 min Scan# 1816

Delta R.T. 0.00 min

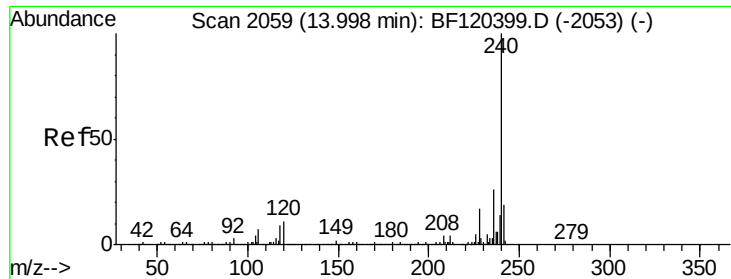
Lab File: BF120423.D

Acq: 28 May 2020 22:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 402835 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.7  | 0.0   | 32.6   |
| 203       | 17.6  | 0.0   | 38.4   |







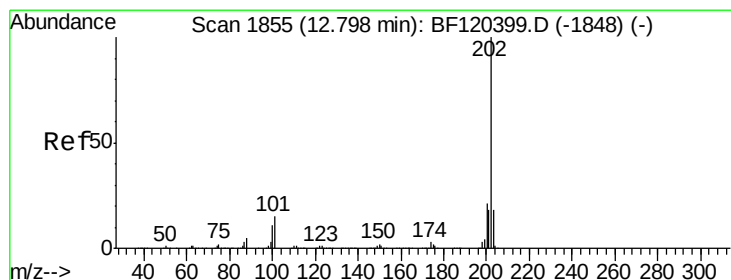
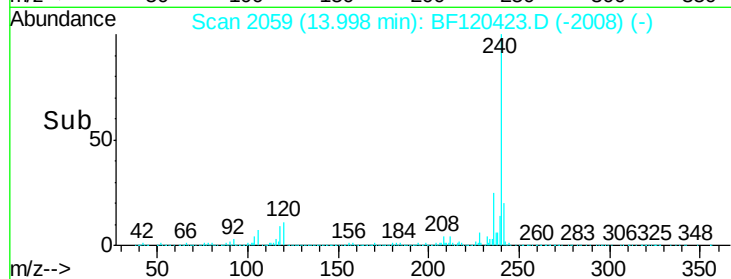
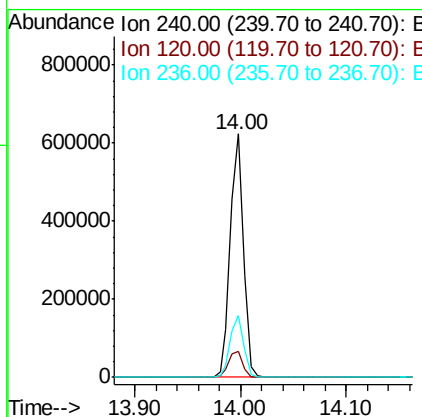
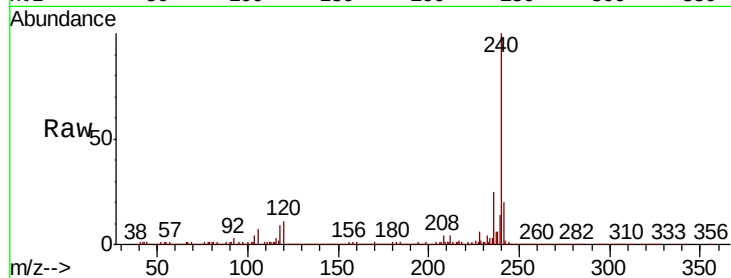
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2059  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.7  | 8.8   | 13.2  |
| 236     | 25.4  | 21.0  | 31.4  |

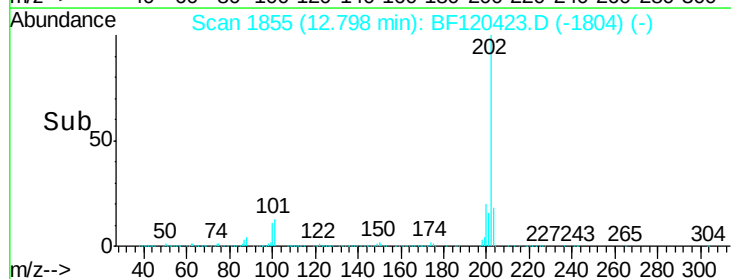
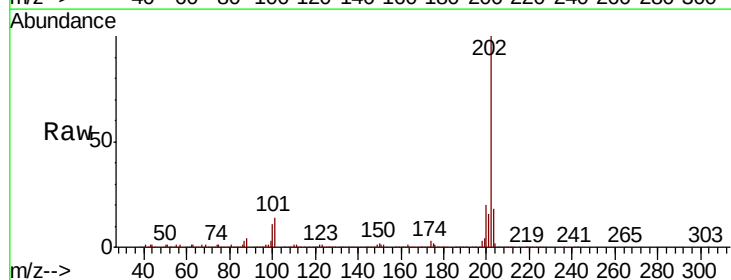
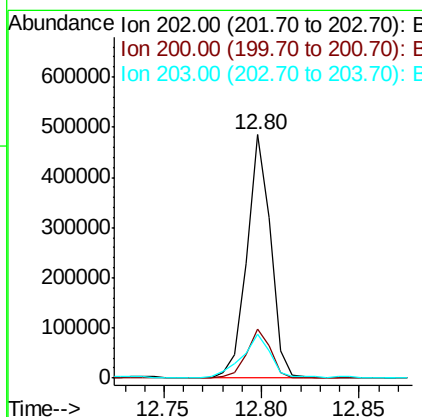
Manual Integrations  
APPROVED

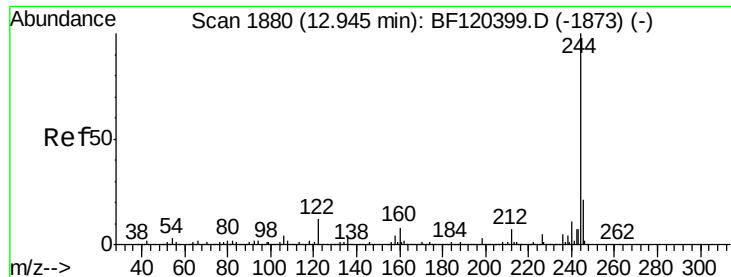
mohammad  
5/29/2020 10:28:35 PM



#78  
Pyrene  
Concen: 10.961 ng  
RT: 12.80 min Scan# 1855  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.0  | 17.0  | 25.4  |
| 203     | 18.1  | 14.7  | 22.1  |





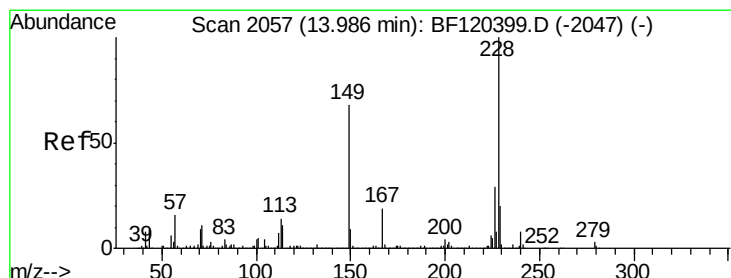
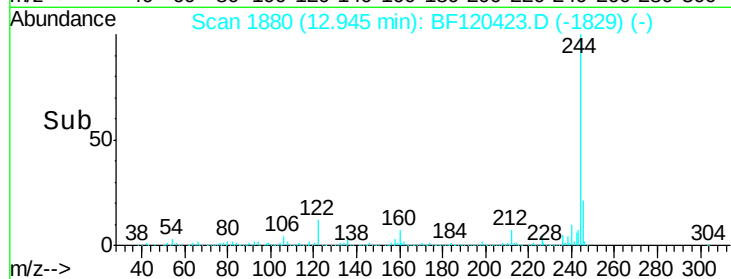
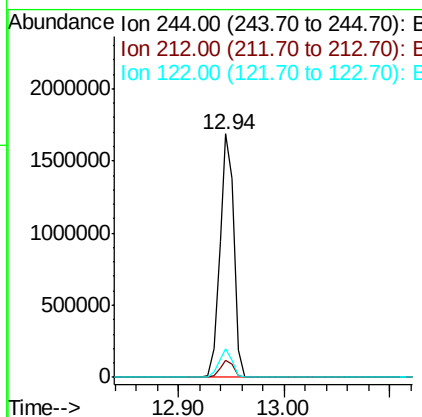
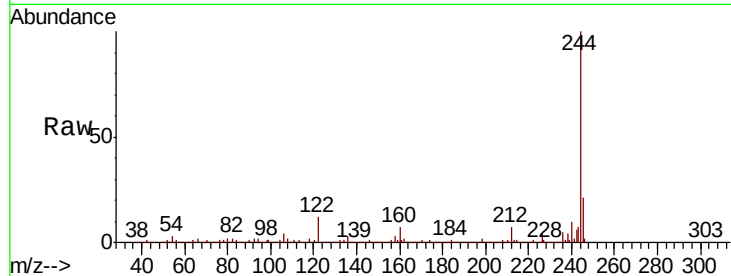
#79  
 Terphenyl-d14  
 Concen: 65.261 ng  
 RT: 12.94 min Scan# 1880  
 Delta R.T. 0.00 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM67-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.9   | 8.9   |
| 122     | 11.6  | 9.2   | 13.8  |

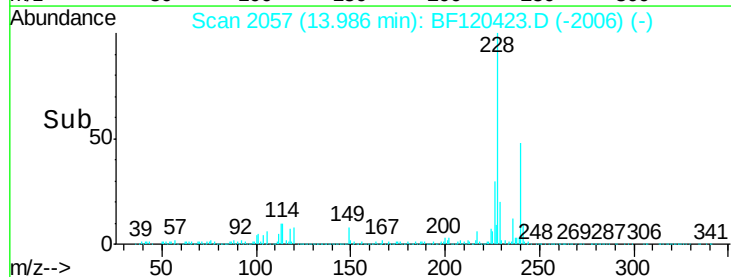
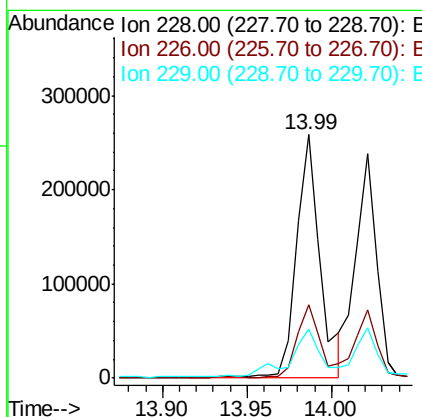
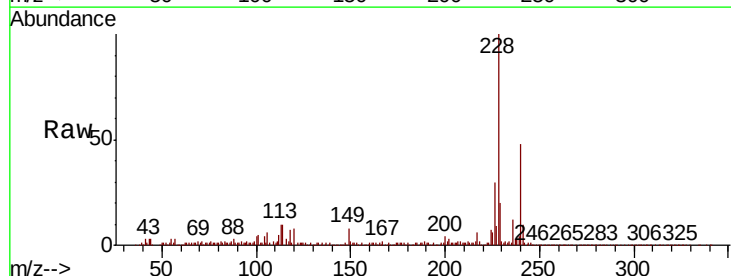
Manual Integrations  
 APPROVED

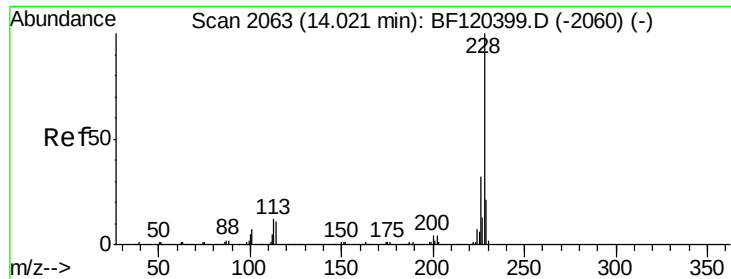
mohammad  
 5/29/2020 10:28:35 PM



#81  
 Benzo(a)anthracene  
 Concen: 8.735 ng  
 RT: 13.99 min Scan# 2057  
 Delta R.T. 0.00 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 23.0  | 34.4  |
| 229     | 20.0  | 16.2  | 24.4  |





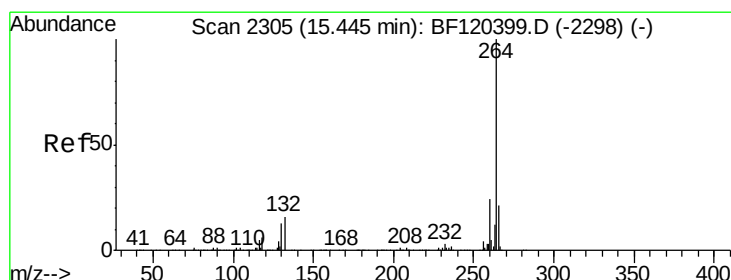
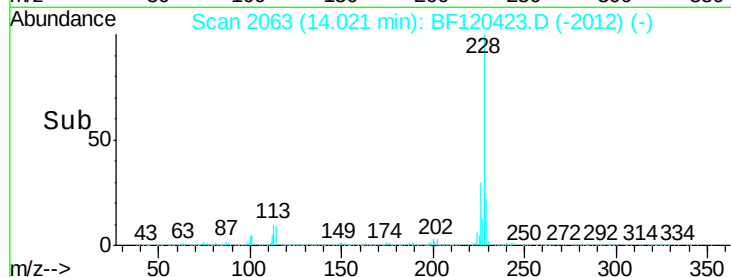
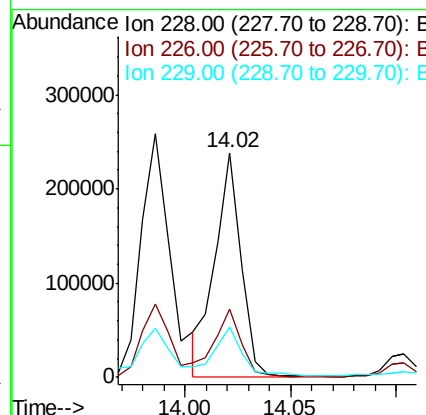
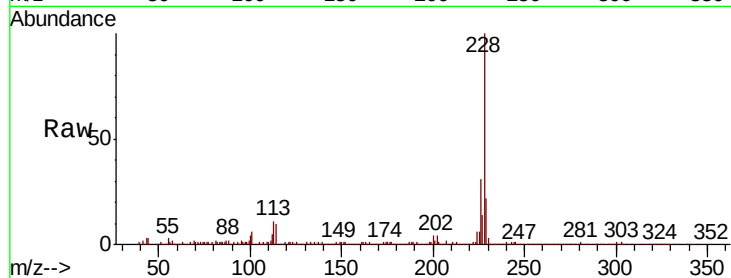
#83  
Chrysene  
Concen: 6.834 ng  
RT: 14.02 min Scan# 2063  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 205012 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.7  | 25.6  | 38.4   |
| 229       | 22.3  | 16.6  | 25.0   |

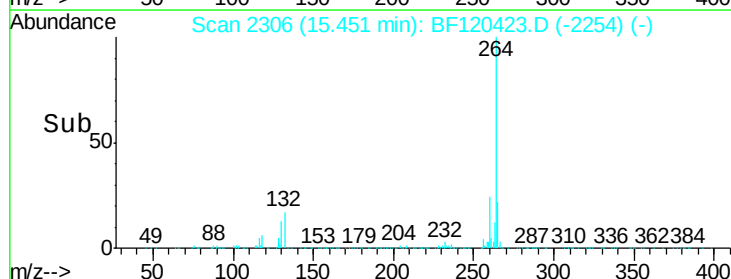
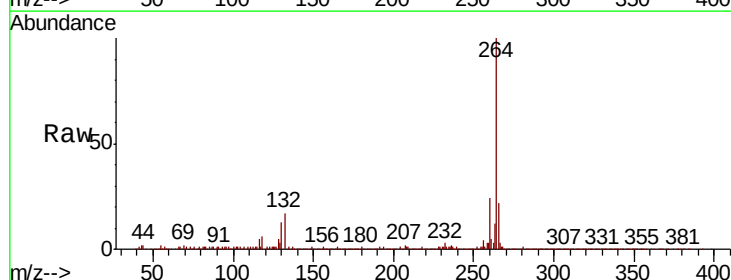
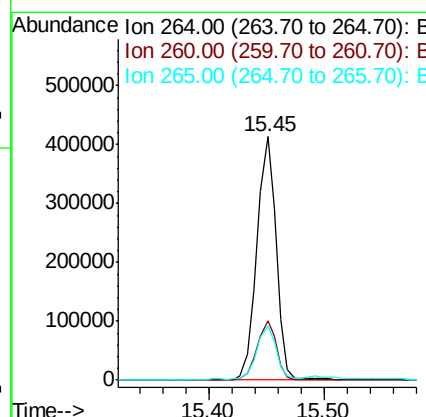
Manual Integrations  
APPROVED

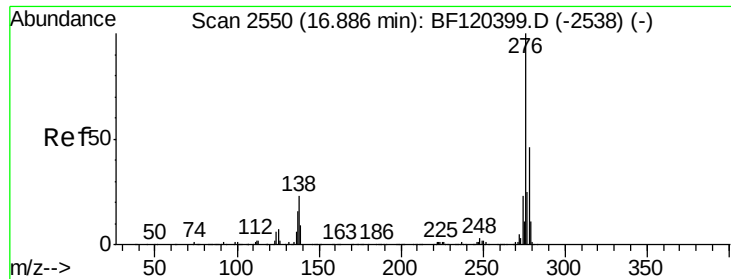
mohammad  
5/29/2020 10:28:35 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2306  
Delta R.T. 0.01 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 481524 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.3  | 19.2  | 28.8   |
| 265       | 22.2  | 16.9  | 25.3   |





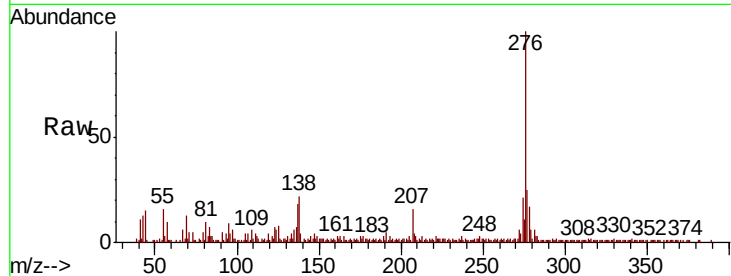
#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.148 ng  
 RT: 16.89 min Scan# 2550  
 Delta R.T. 0.00 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM67-COMP-2020-0-6

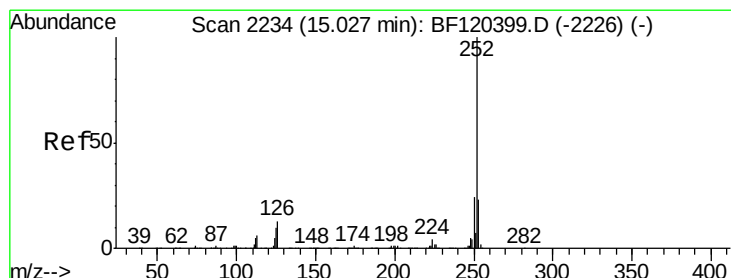
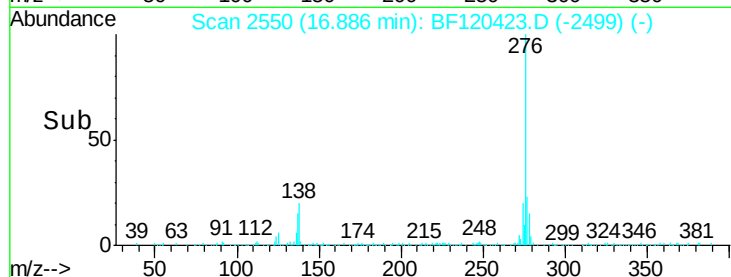
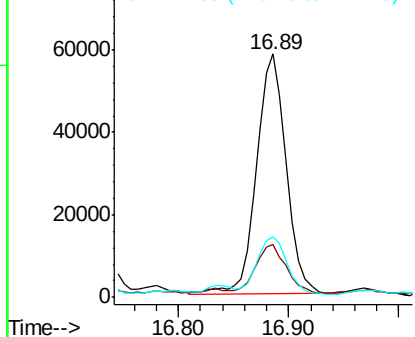
|             |       |        |
|-------------|-------|--------|
| Tot Ion:276 | Resp: | 109243 |
| Ion Ratio   | Lower | Upper  |
| 276 100     |       |        |
| 138 20.8    | 20.4  | 30.6   |
| 277 24.5    | 20.4  | 30.6   |

Manual Integrations  
 APPROVED

mohammad  
 5/29/2020 10:28:35 PM

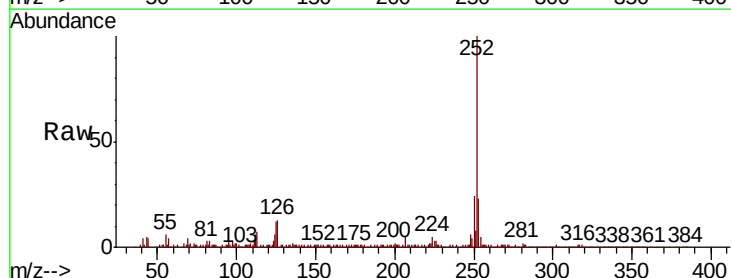


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

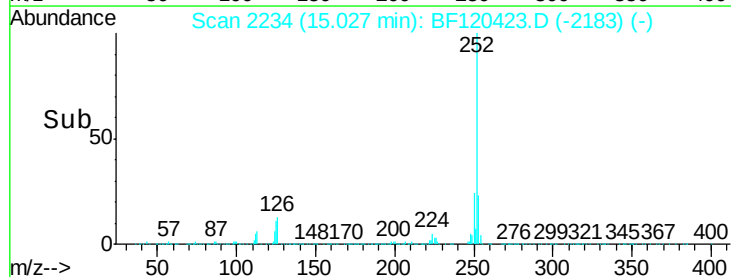
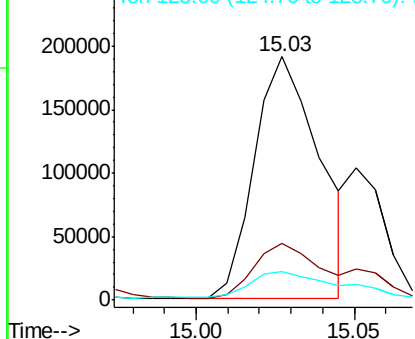


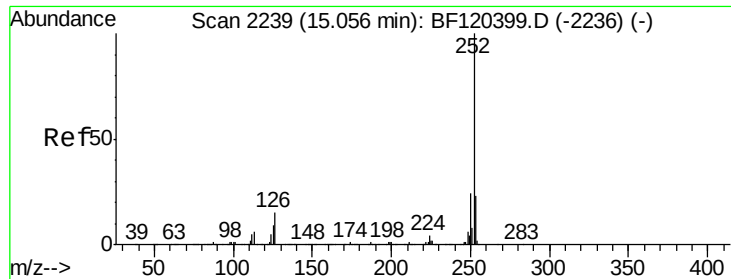
#88  
 Benzo(b)fluoranthene  
 Concen: 10.237 ng m  
 RT: 15.03 min Scan# 2234  
 Delta R.T. 0.00 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:252 | Resp: | 273792 |
| Ion Ratio   | Lower | Upper  |
| 252 100     |       |        |
| 253 23.2    | 18.1  | 27.1   |
| 125 11.9    | 7.8   | 11.8#  |



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





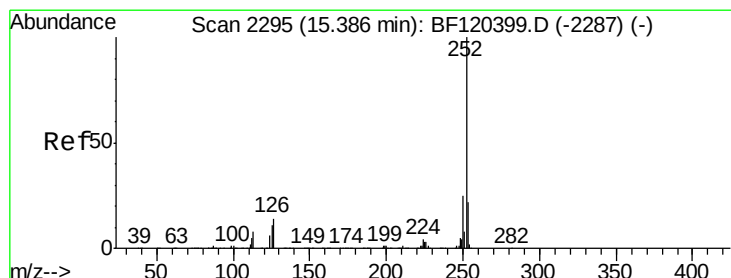
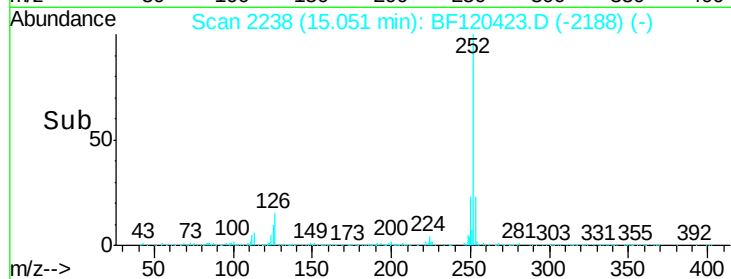
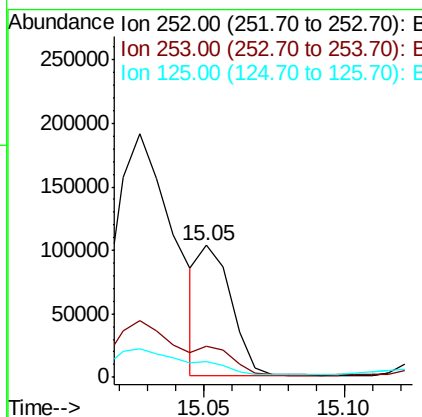
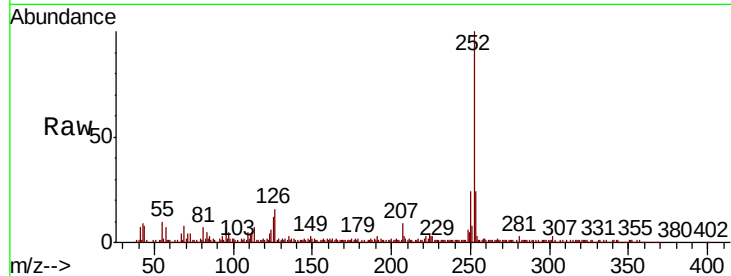
#89  
Benzo(k)fluoranthene  
Concen: 3.270 ng m  
RT: 15.05 min Scan# 2238  
Delta R.T. -0.01 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

Instrument :  
BNA\_F  
ClientSampleId :  
NM67-COMP-2020-0-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.5  | 27.7  |
| 125     | 11.7  | 8.0   | 12.0  |

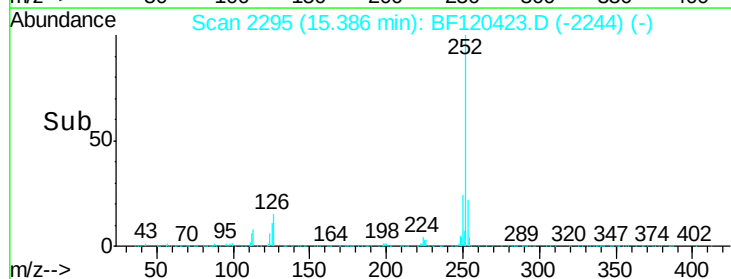
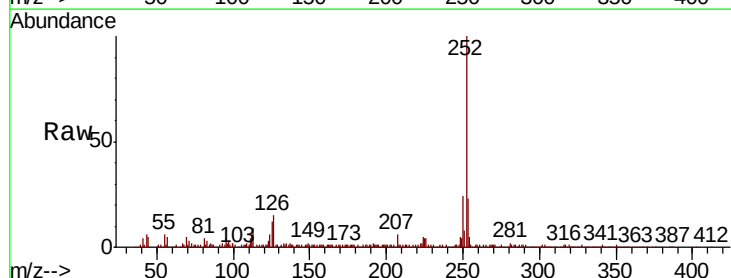
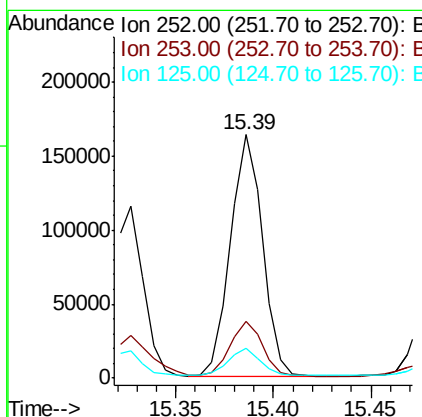
Manual Integrations  
APPROVED

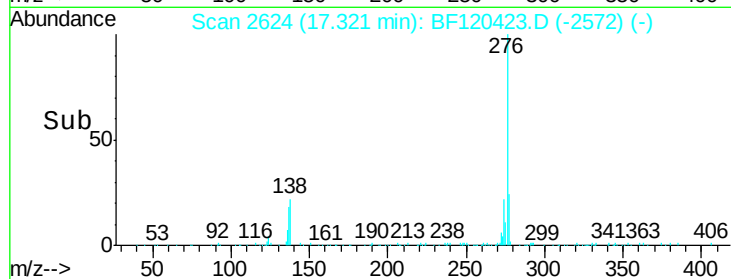
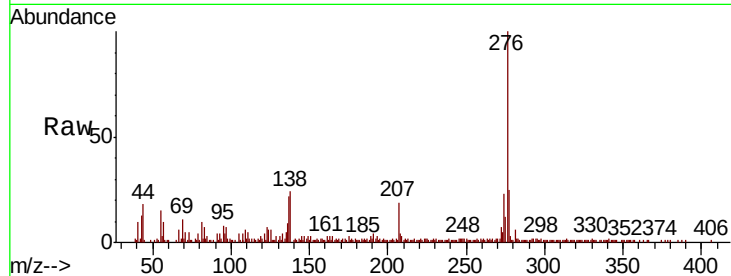
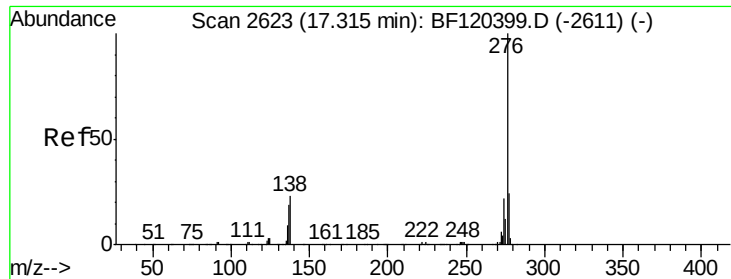
mohammad  
5/29/2020 10:28:35 PM



#90  
Benzo(a)pyrene  
Concen: 7.998 ng  
RT: 15.39 min Scan# 2295  
Delta R.T. 0.00 min  
Lab File: BF120423.D  
Acq: 28 May 2020 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.4  | 26.0  |
| 125     | 12.1  | 8.7   | 13.1  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 4.909 ng  
 RT: 17.32 min Scan# 2624  
 Delta R.T. 0.01 min  
 Lab File: BF120423.D  
 Acq: 28 May 2020 22:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 103959 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.2  | 19.5  | 29.3   |
| 138       | 23.6  | 18.1  | 27.1   |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NM67-COMP-2020-0-6

Manual Integrations  
 APPROVED

mohammad  
 5/29/2020 10:28:35 PM

