

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082419\  
 Data File : BN007364.D  
 Acq On : 24 Aug 2019 15:31  
 Operator : HP/JU  
 Sample : K4471-13DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S704-N-0.0-0.5-082119DL

Manual Integrations  
 APPROVED

mohammad  
 8/31/2019 2:40:05 PM

Quant Time: Aug 25 00:12:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 24 00:38:17 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 5836     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 24686    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.05 | 164  | 13445    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.79 | 188  | 29267    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.03 | 240  | 29703    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.13 | 264  | 32508    | 0.40 | ng    | 0.00     |

|                             |       |     |      |      |    |      |
|-----------------------------|-------|-----|------|------|----|------|
| System Monitoring Compounds |       |     |      |      |    |      |
| 4) 2-Fluorophenol           | 5.04  | 112 | 943  | 0.02 | ng | 0.00 |
| 5) Phenol-d6                | 6.60  | 99  | 1215 | 0.02 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.54  | 82  | 793  | 0.04 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.76 | 152 | 1726 | 0.04 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330 | 308  | 0.04 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.66 | 172 | 2090 | 0.04 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.84 | 212 | 3851 | 0.04 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.47 | 244 | 2936 | 0.04 | ng | 0.00 |

|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 9) Naphthalene                 | 10.20 | 128 | 1497    | 0.021  | ng | # 86 |
| 16) Acenaphthylene             | 13.76 | 152 | 2532    | 0.032  | ng | 97   |
| 17) Acenaphthene               | 14.11 | 154 | 9301    | 0.200  | ng | 99   |
| 18) Fluorene                   | 15.10 | 166 | 9666    | 0.164  | ng | 100  |
| 23) Phenanthrene               | 16.84 | 178 | 211831  | 2.406  | ng | 99   |
| 24) Anthracene                 | 16.93 | 178 | 32134   | 0.363  | ng | # 91 |
| 26) Fluoranthene               | 18.87 | 202 | 473749  | 4.191  | ng | 100  |
| 28) Pyrene                     | 19.24 | 202 | 396889  | 3.322  | ng | # 95 |
| 30) Benzo(a)anthracene         | 21.00 | 228 | 204621  | 1.754  | ng | 98   |
| 31) Chrysene                   | 21.06 | 228 | 206890  | 1.837  | ng | 99   |
| 32) Bis(2-ethylhexyl)phthalate | 20.97 | 149 | 22315   | 0.277  | ng | # 86 |
| 33) Indeno(1,2,3-cd)pyrene     | 25.19 | 276 | 138206  | 1.019  | ng | 97   |
| 35) Benzo(b)fluoranthene       | 22.51 | 252 | 276030  | 2.344  | ng | # 94 |
| 36) Benzo(k)fluoranthene       | 22.55 | 252 | 98730m  | 0.848  | ng |      |
| 37) Benzo(a)pyrene             | 22.95 | 252 | 135217m | 1.206  | ng |      |
| 38) Dibenzo(a,h)anthracene     | 25.20 | 278 | 33756   | 0.302  | ng | 95   |
| 39) Benzo(a,h,i)perylene       | 25.82 | 276 | 138166  | 1.240  | ng | 96   |

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

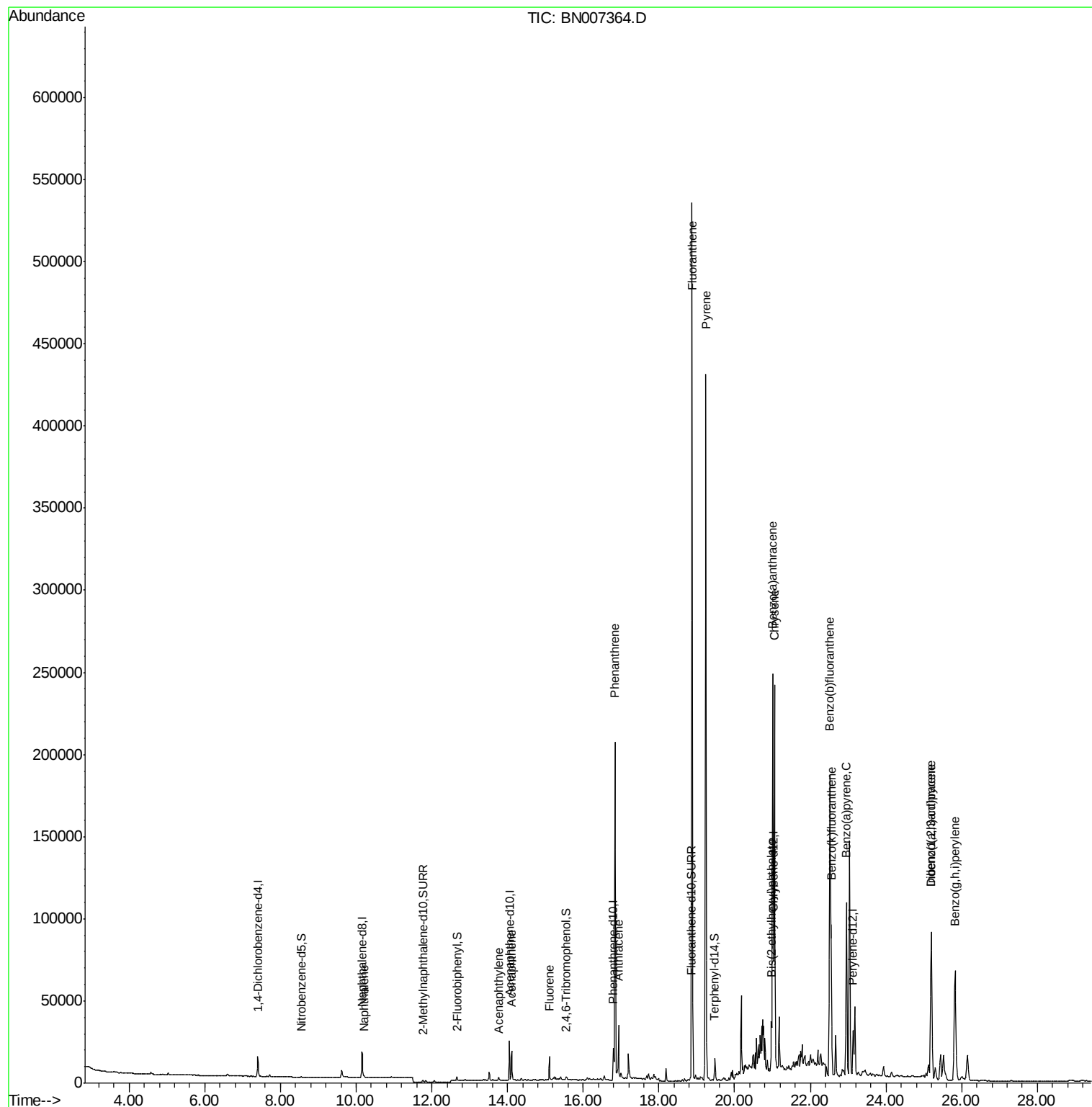
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082419\  
Data File : BN007364.D  
Acq On : 24 Aug 2019 15:31  
Operator : HP/JU  
Sample : K4471-13DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

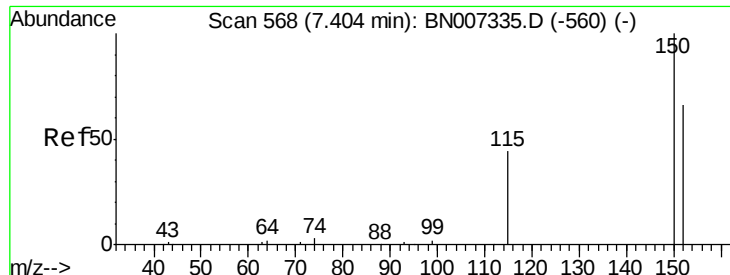
Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM

Quant Time: Aug 25 00:12:51 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Aug 24 00:38:17 2019  
Response via : Initial Calibration





#1

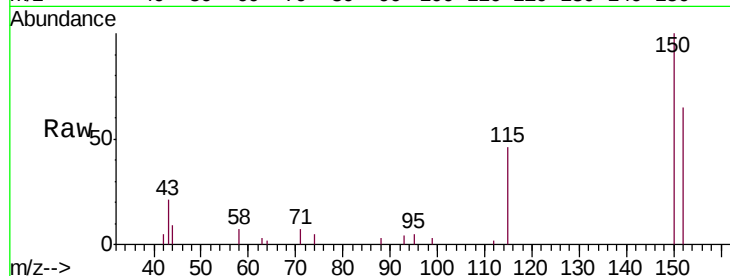
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 568  
Delta R.T. -0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.6 | 109.1 | 163.7 |
| 115     | 70.0  | 59.6  | 89.4  |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM

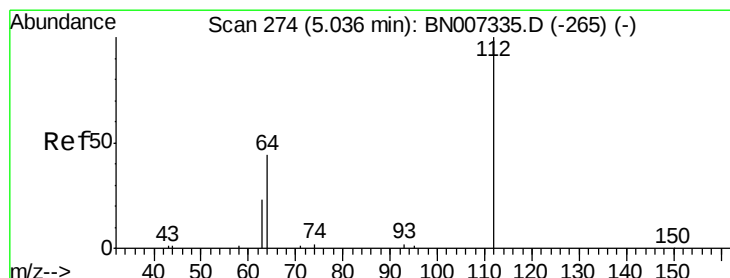
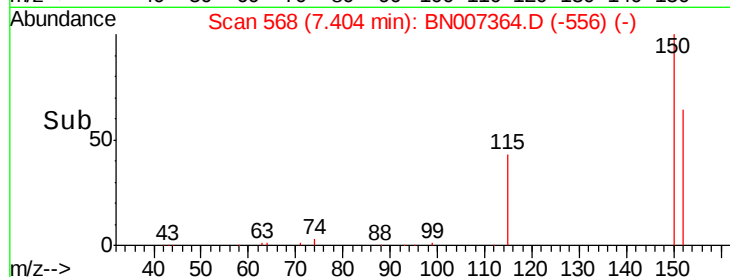
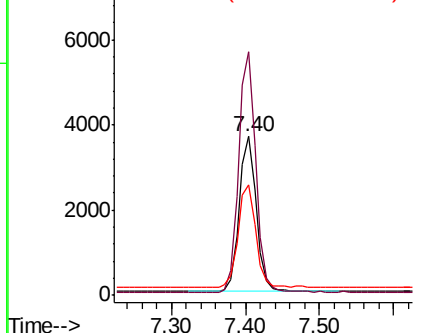


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

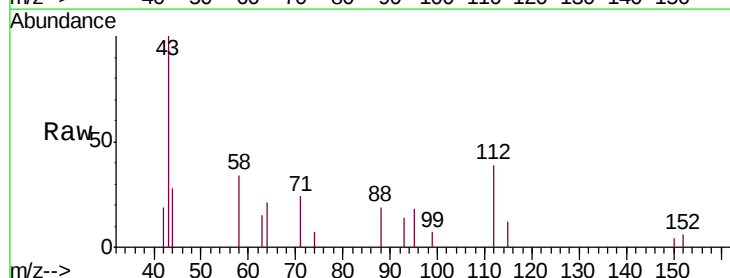
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.020 ng  
RT: 5.04 min Scan# 274  
Delta R.T. 0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.6  | 42.3  | 63.5  |
| 63      | 27.7  | 23.6  | 35.4  |

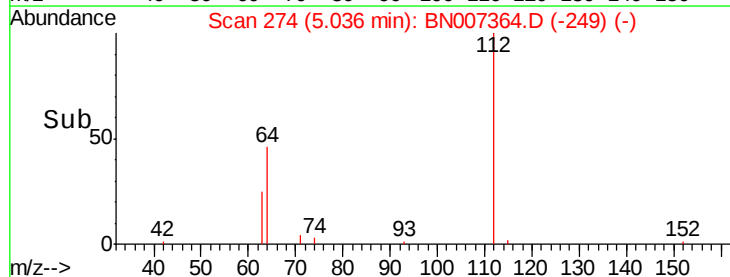
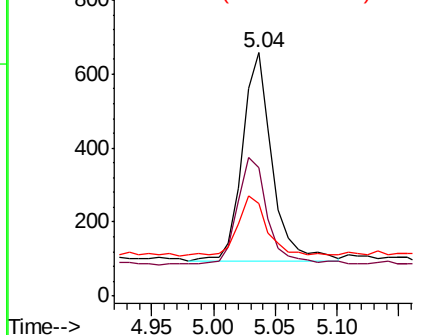


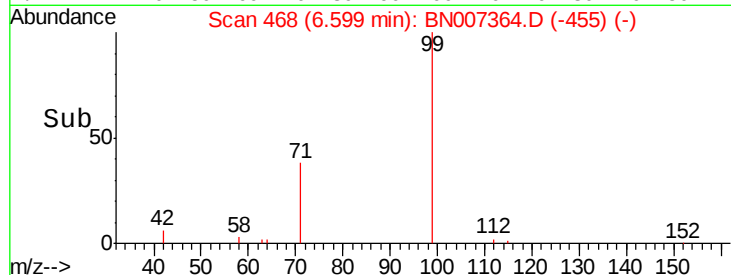
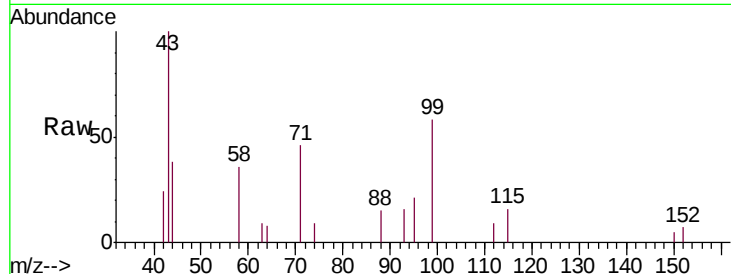
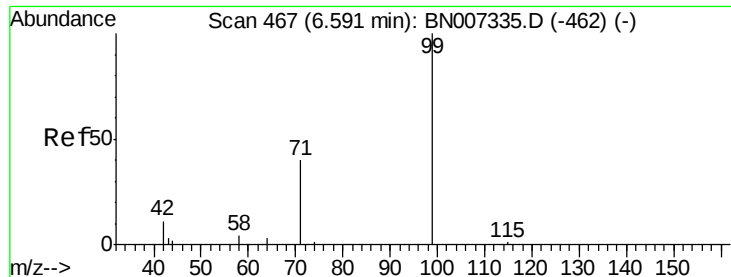
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.018 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.01 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1215  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 12.7  | 11.2  | 16.8  |
| 71       | 37.9  | 31.8  | 47.8  |

Instrument :

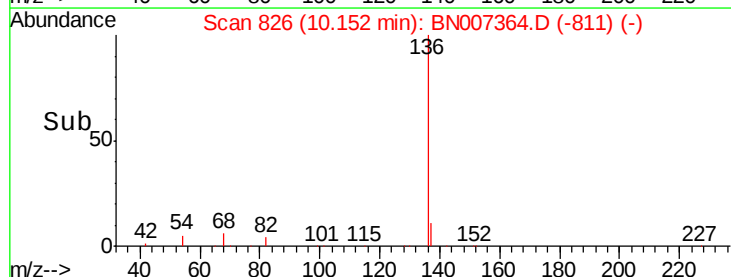
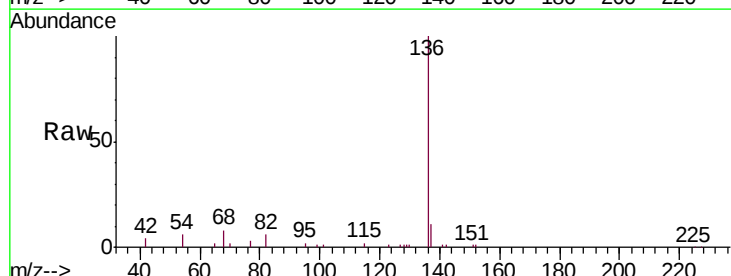
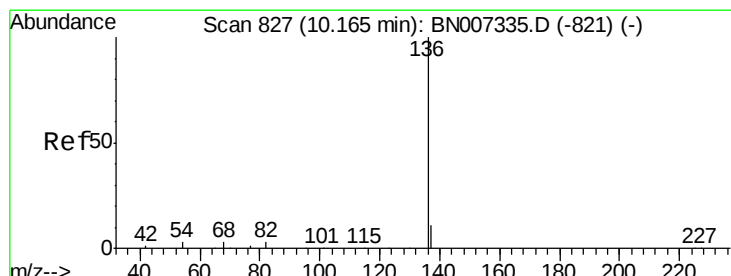
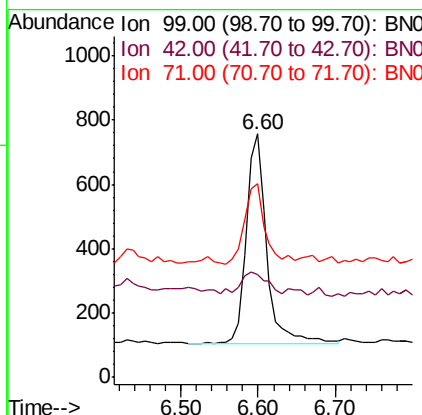
BNA\_N

ClientSampleId :

S704-N-0.0-0.5-082119DL

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



#7

Naphthalene-d8

Concen: 0.400 ng

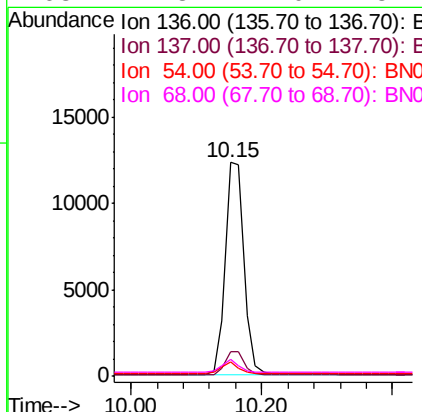
RT: 10.15 min Scan# 826

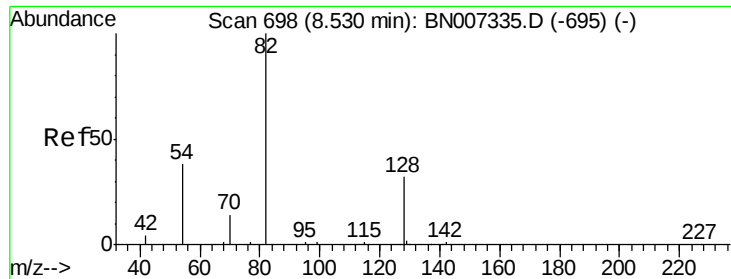
Delta R.T. -0.01 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 24686 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.4  | 12.9  | 19.3# |
| 54       | 6.4   | 8.6   | 12.8# |
| 68       | 7.8   | 17.0  | 25.4# |





#8

Nitrobenzene-d5

Concen: 0.037 ng

RT: 8.54 min Scan# 699

Delta R.T. 0.01 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

Instrument :

BNA\_N

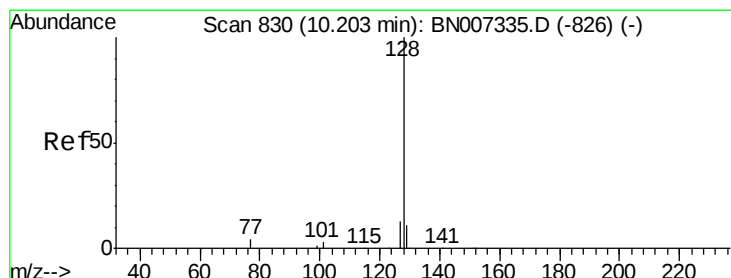
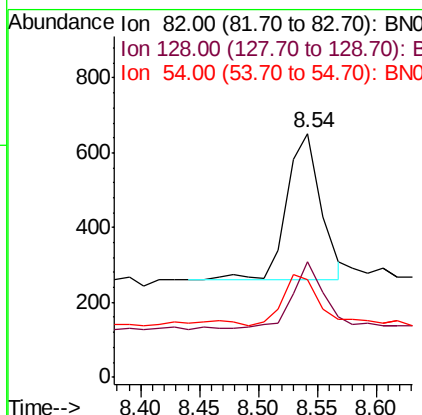
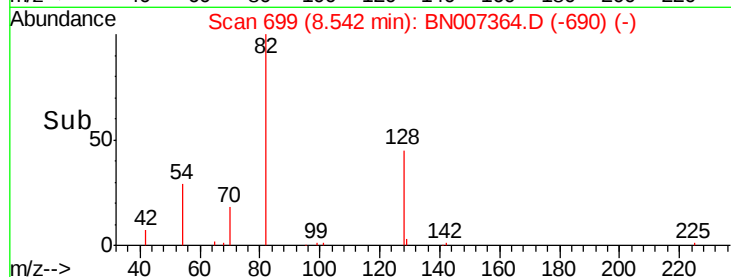
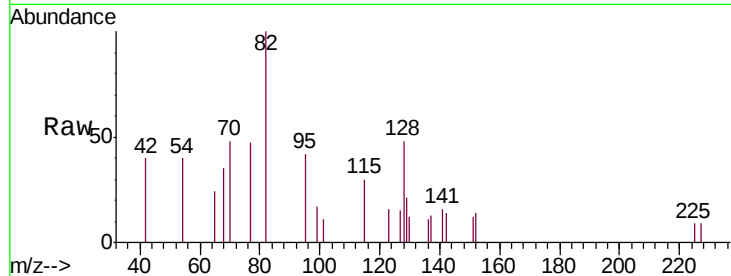
ClientSampleId :

S704-N-0.0-0.5-082119DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 82    | Resp: | 793   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.6  | 19.7  | 29.5# |
| 54       | 40.1  | 25.8  | 38.6# |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



#9

Naphthalene

Concen: 0.021 ng

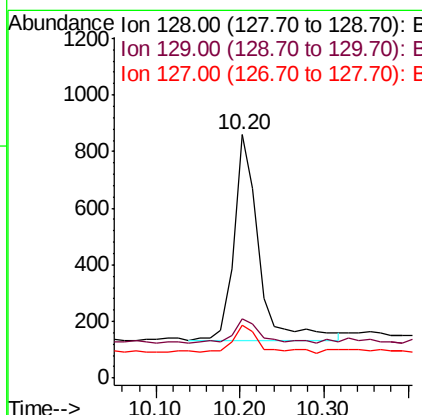
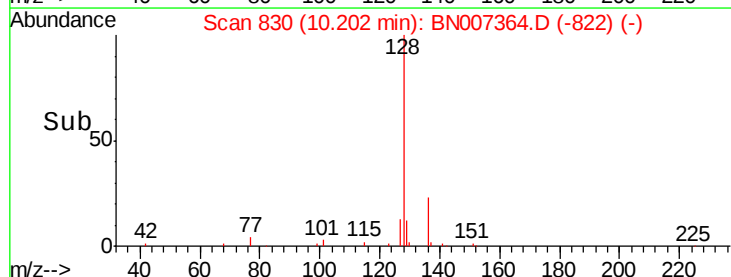
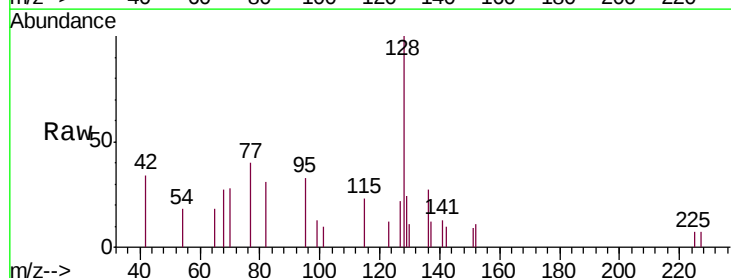
RT: 10.20 min Scan# 830

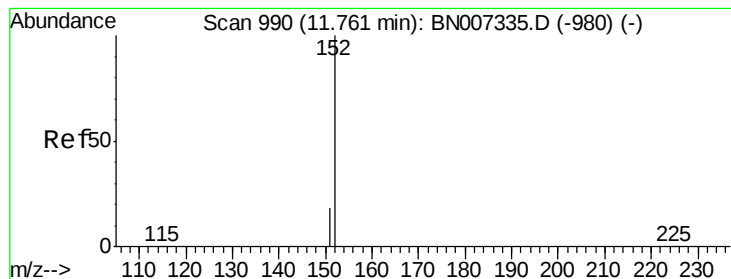
Delta R.T. -0.00 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1497  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 24.3  | 11.1  | 16.7# |
| 127      | 21.7  | 15.5  | 23.3  |





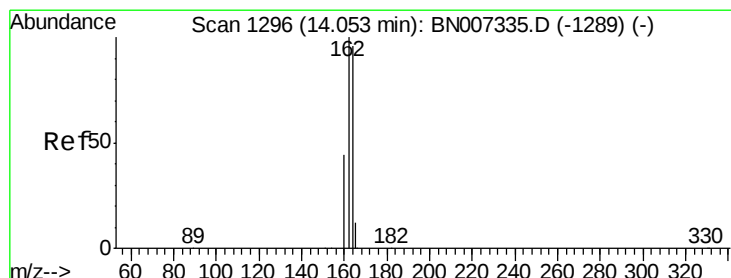
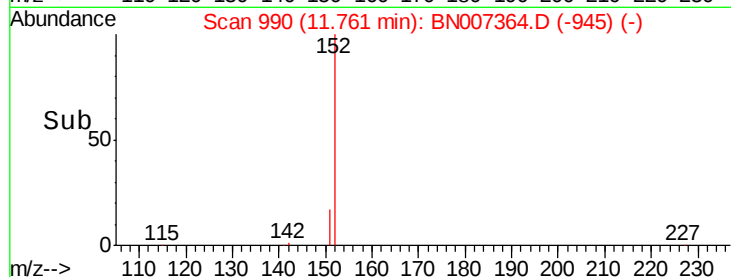
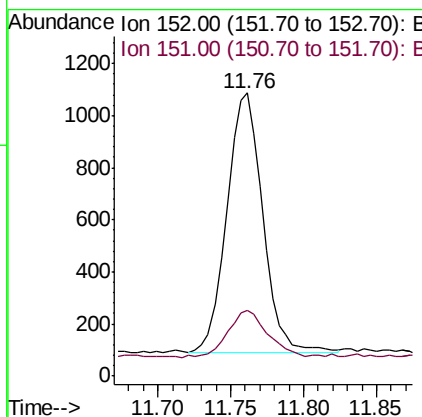
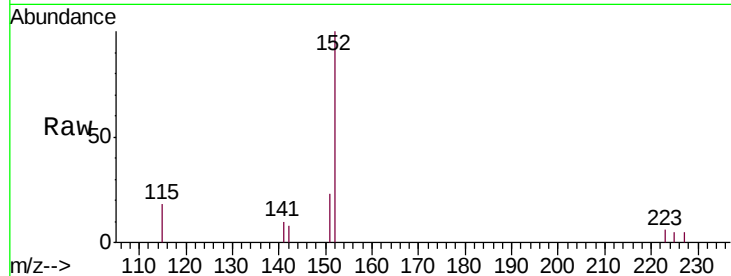
#11  
2-Methylnaphthalene-d10  
Concen: 0.042 ng  
RT: 11.76 min Scan# 990  
Delta R.T. -0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.2  | 24.2  |

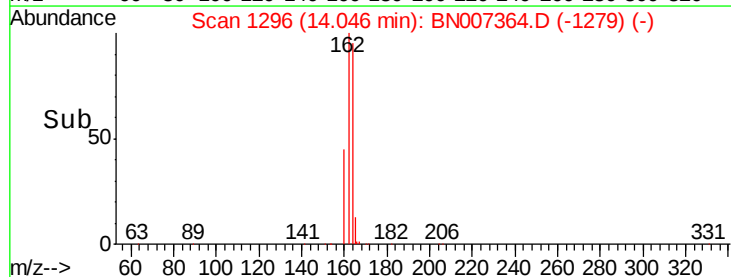
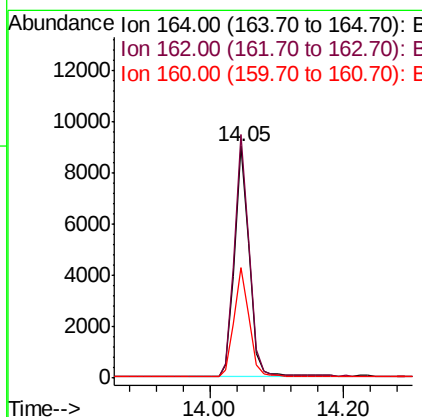
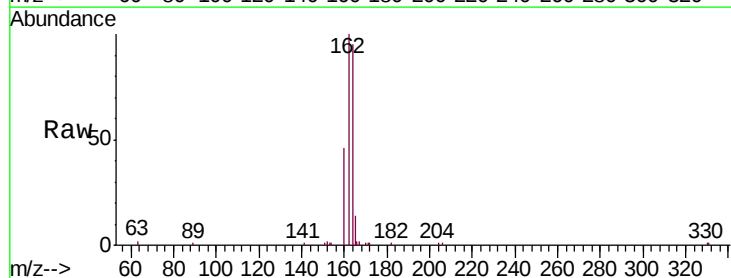
Manual Integrations  
APPROVED

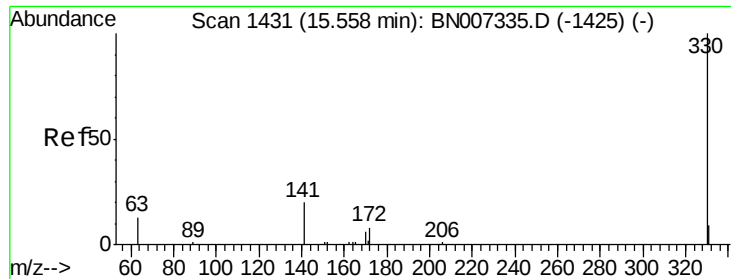
mohammad  
8/31/2019 2:40:05 PM



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.05 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.9 | 83.5  | 125.3 |
| 160     | 47.8  | 38.2  | 57.4  |





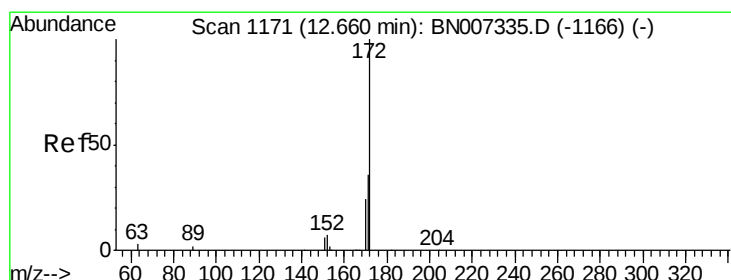
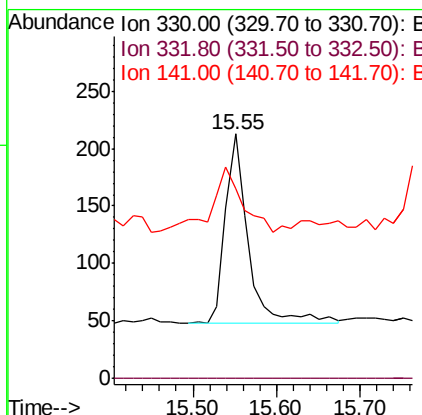
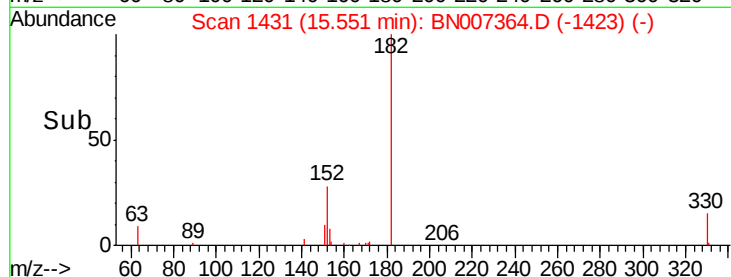
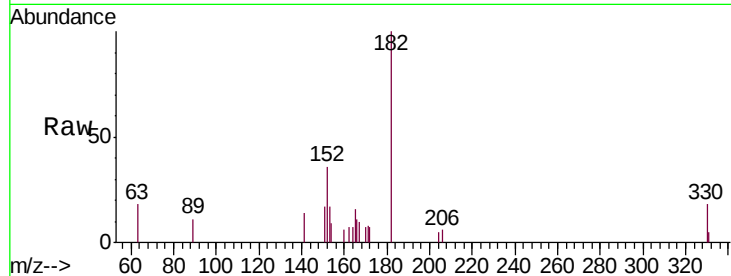
#14  
 2,4,6-Tribromophenol  
 Concen: 0.044 ng  
 RT: 15.55 min Scan# 1431  
 Delta R.T. -0.01 min  
 Lab File: BN007364.D  
 Acq: 24 Aug 2019 15:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 46.1  | 26.9  | 40.3  |

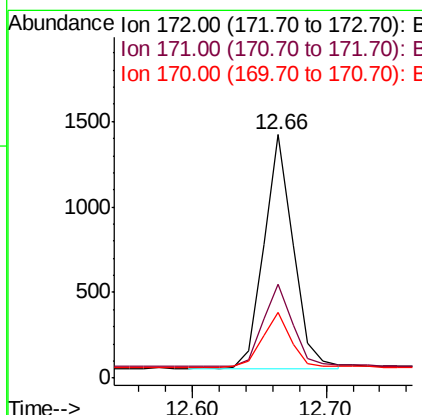
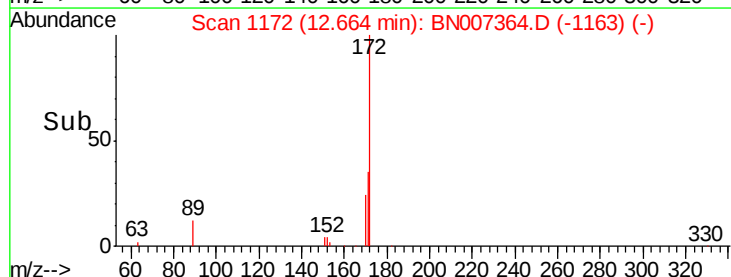
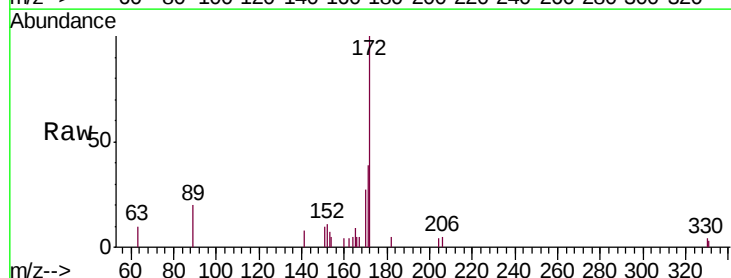
Manual Integrations  
 APPROVED

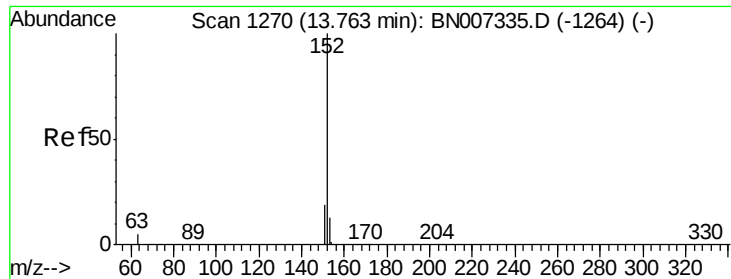
mohammad  
 8/31/2019 2:40:05 PM



#15  
 2-Fluorobiphenyl  
 Concen: 0.039 ng  
 RT: 12.66 min Scan# 1172  
 Delta R.T. 0.00 min  
 Lab File: BN007364.D  
 Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.6  | 30.3  | 45.5  |
| 170     | 27.2  | 20.7  | 31.1  |





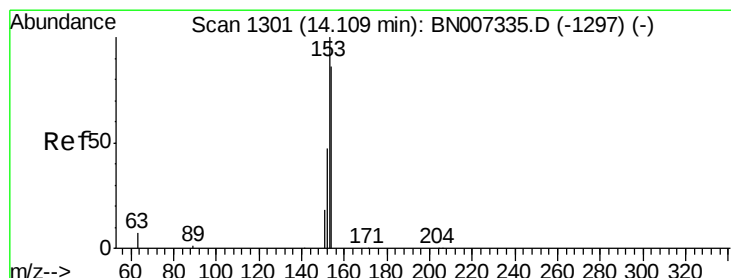
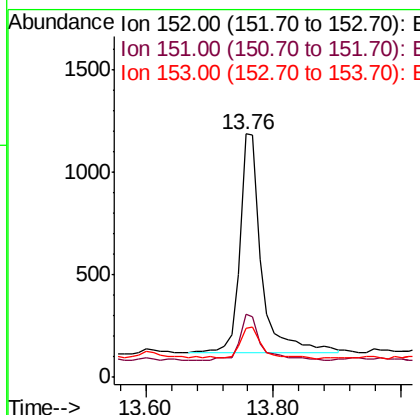
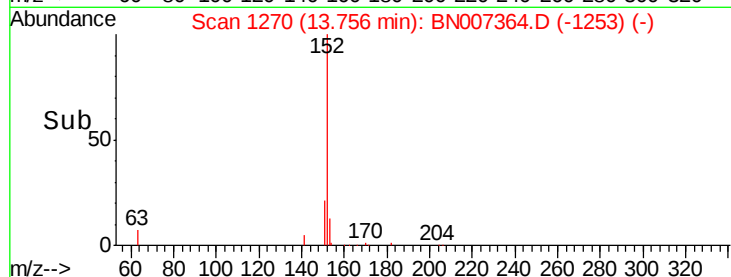
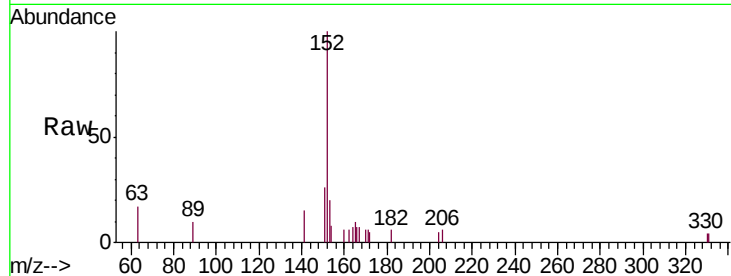
#16  
Acenaphthylene  
Concen: 0.032 ng  
RT: 13.76 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 2532 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 21.5  | 16.1  | 24.1 |
| 153       | 14.1  | 10.6  | 15.8 |

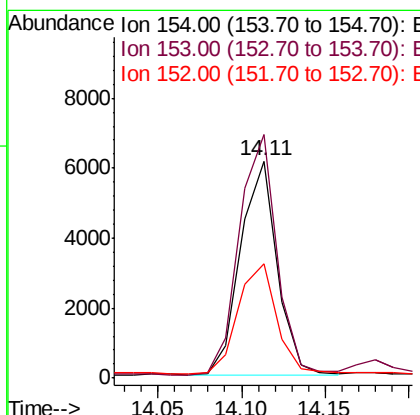
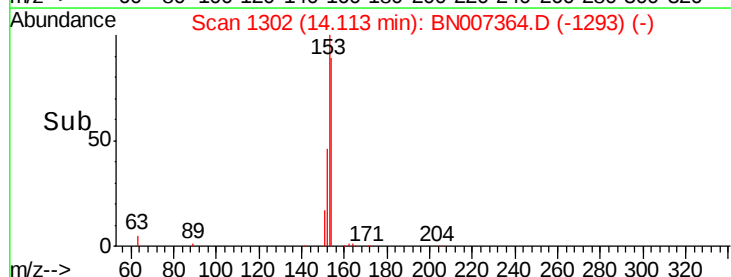
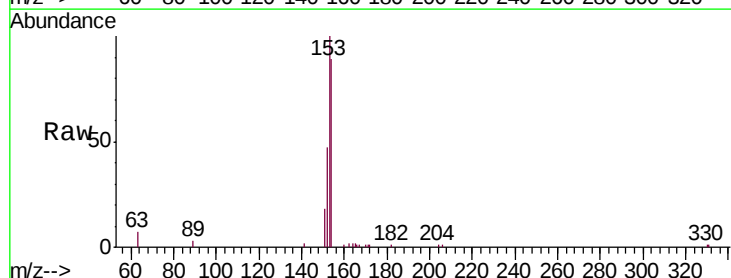
Manual Integrations  
APPROVED

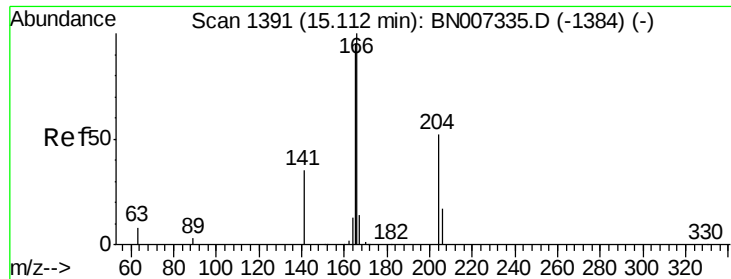
mohammad  
8/31/2019 2:40:05 PM



#17  
Acenaphthene  
Concen: 0.200 ng  
RT: 14.11 min Scan# 1302  
Delta R.T. 0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 9301  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 114.3 | 92.8  | 139.2 |
| 152       | 54.8  | 43.8  | 65.8  |





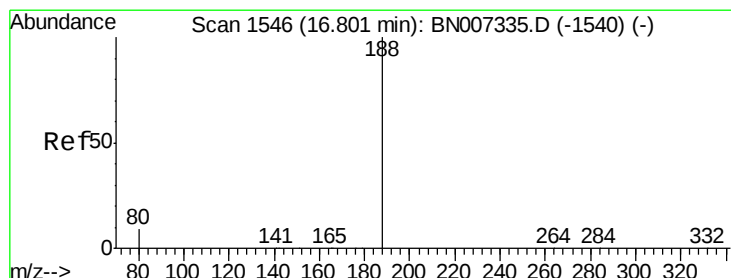
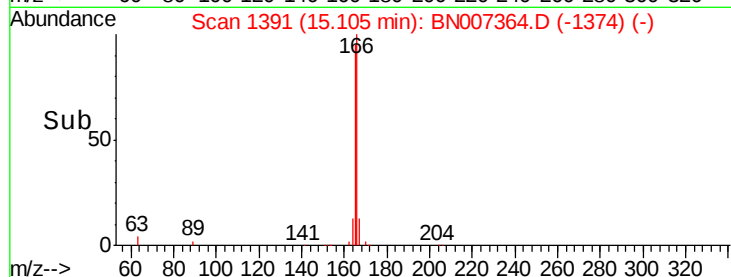
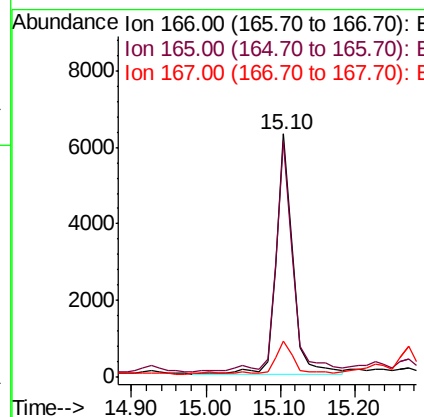
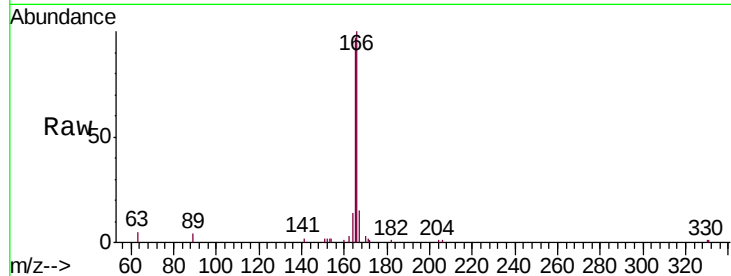
#18  
 Fluorene  
 Concen: 0.164 ng  
 RT: 15.10 min Scan# 1391  
 Delta R.T. -0.01 min  
 Lab File: BN007364.D  
 Acq: 24 Aug 2019 15:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.9  | 79.0  | 118.4 |
| 167     | 13.9  | 10.6  | 15.8  |

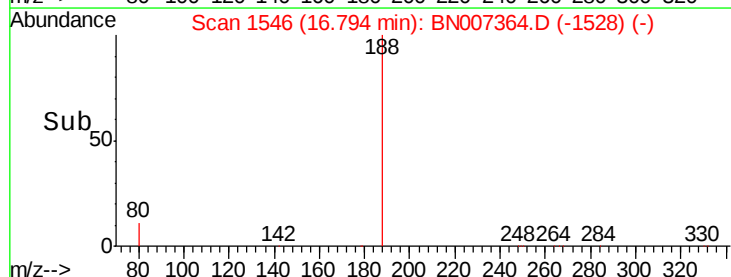
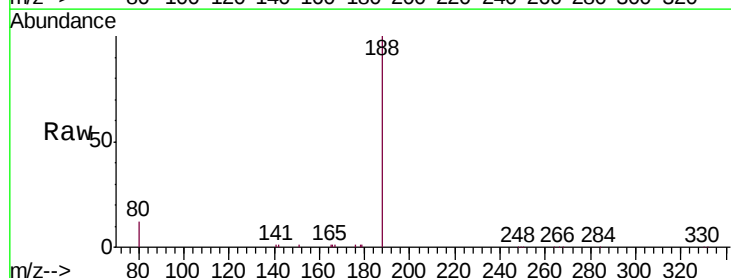
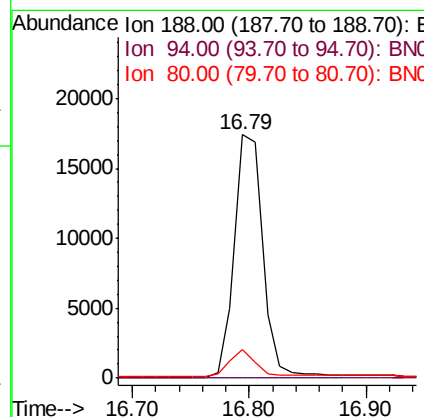
Manual Integrations  
 APPROVED

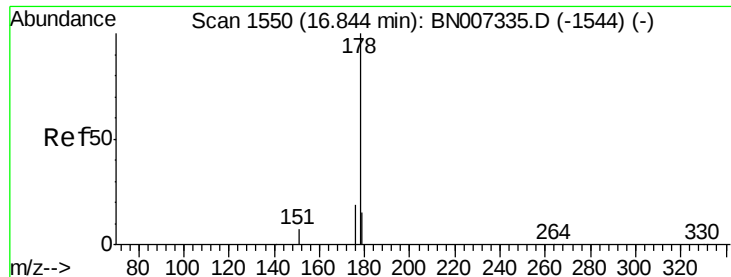
mohammad  
 8/31/2019 2:40:05 PM



#19  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 16.79 min Scan# 1546  
 Delta R.T. -0.01 min  
 Lab File: BN007364.D  
 Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 11.9  | 11.8  | 17.8  |





#23

Phenanthrene

Concen: 2.406 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

Instrument :

BNA\_N

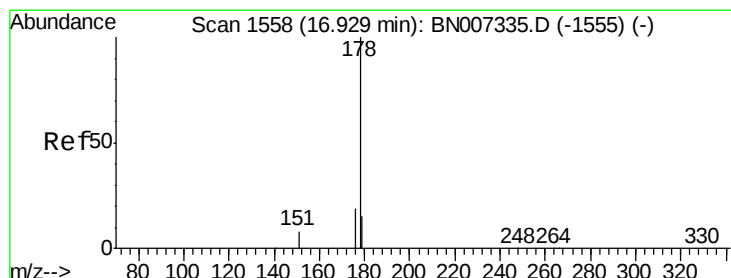
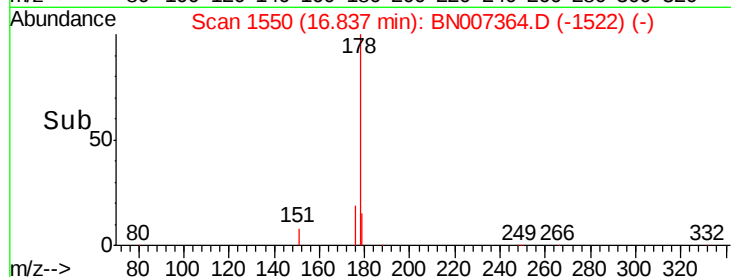
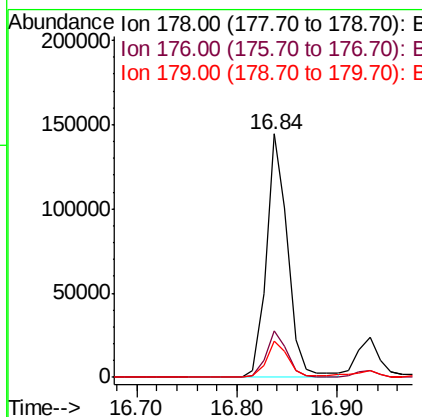
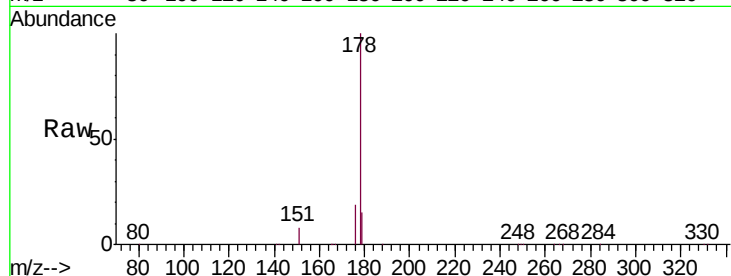
ClientSampleId :

S704-N-0.0-0.5-082119DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 211831 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.8  | 15.3  | 22.9   |
| 179       | 15.0  | 12.6  | 19.0   |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



#24

Anthracene

Concen: 0.363 ng

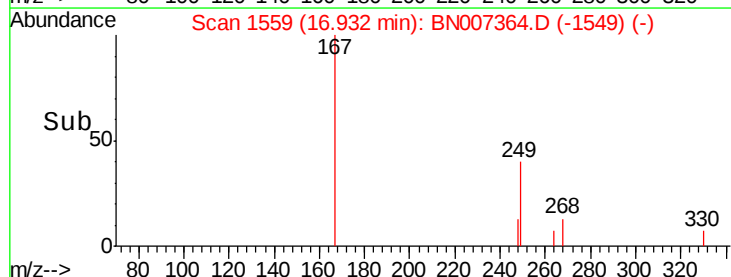
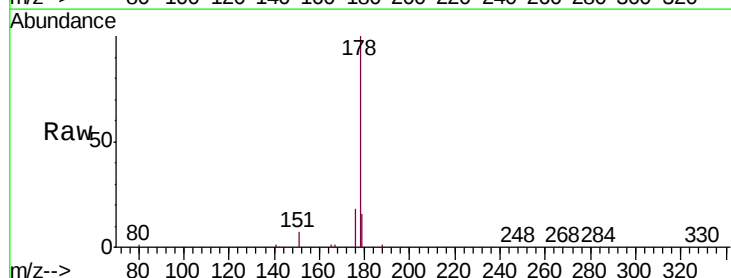
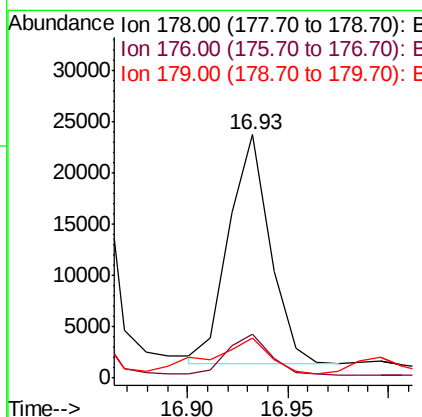
RT: 16.93 min Scan# 1559

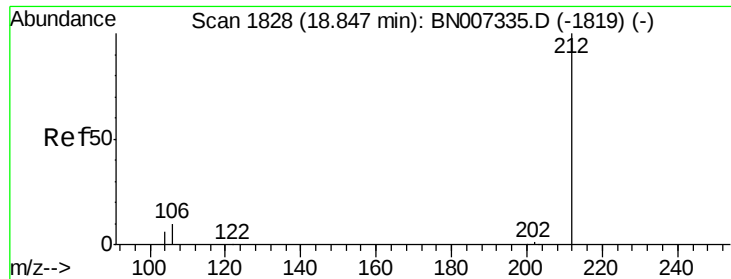
Delta R.T. 0.00 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 32134 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.8  | 14.9  | 22.3  |
| 179       | 21.7  | 12.4  | 18.6# |





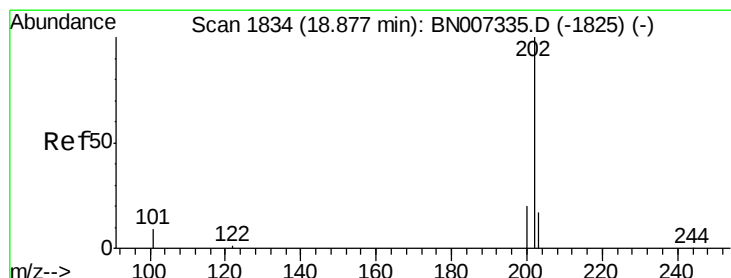
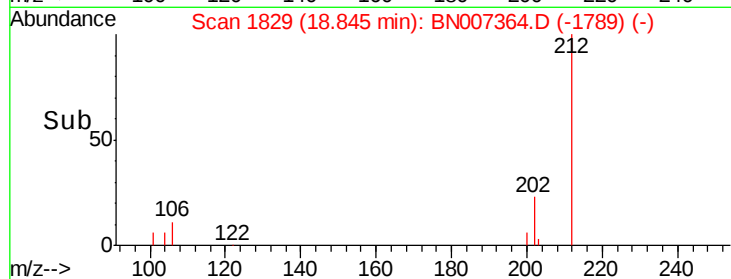
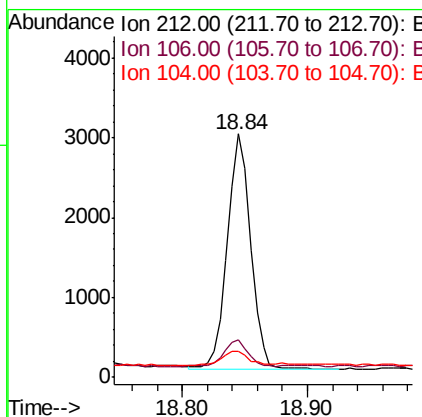
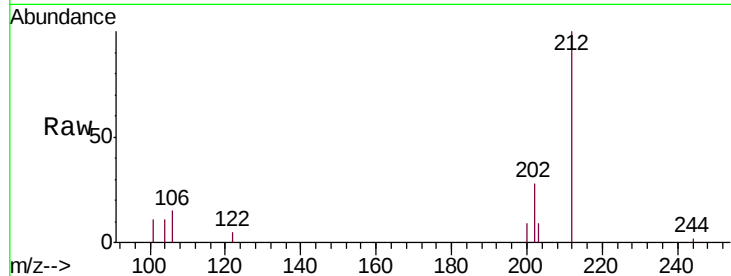
#25  
 Fluoranthene-d10  
 Concen: 0.041 ng  
 RT: 18.84 min Scan# 1829  
 Delta R.T. -0.00 min  
 Lab File: BN007364.D  
 Acq: 24 Aug 2019 15:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 212     | 100   | 3851 |       |       |
| 106     | 11.6  |      | 9.0   | 13.4  |
| 104     | 6.9   |      | 5.4   | 8.2   |

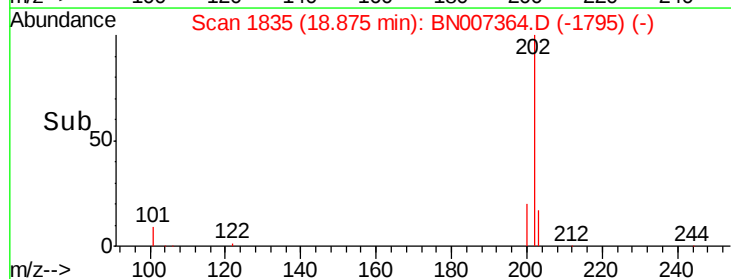
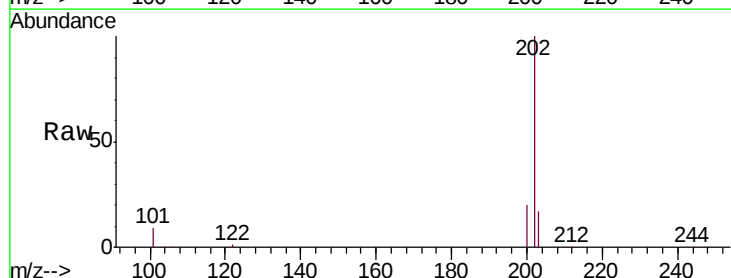
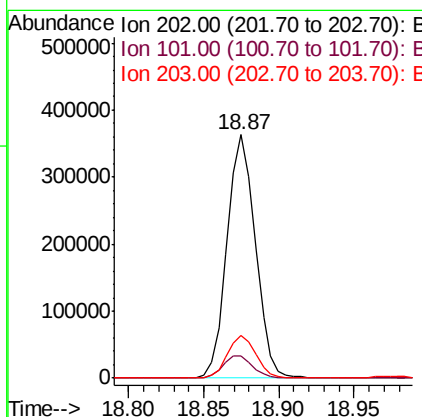
Manual Integrations  
 APPROVED

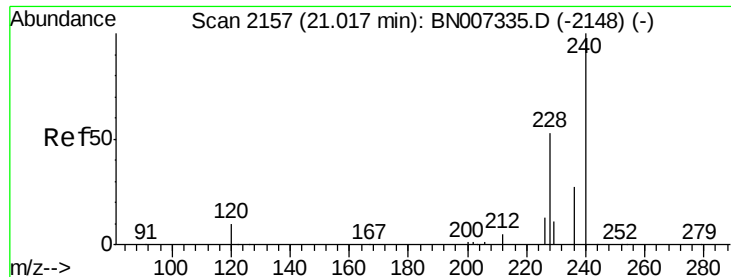
mohammad  
 8/31/2019 2:40:05 PM



#26  
 Fluoranthene  
 Concen: 4.191 ng  
 RT: 18.87 min Scan# 1835  
 Delta R.T. -0.00 min  
 Lab File: BN007364.D  
 Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 473749 |       |       |
| 101     | 9.5   |        | 7.7   | 11.5  |
| 203     | 17.3  |        | 13.7  | 20.5  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2159

Delta R.T. 0.01 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

Instrument :

BNA\_N

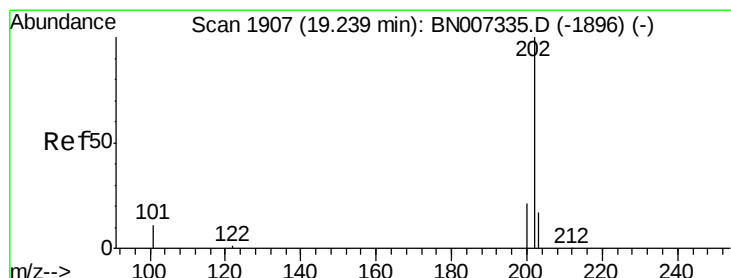
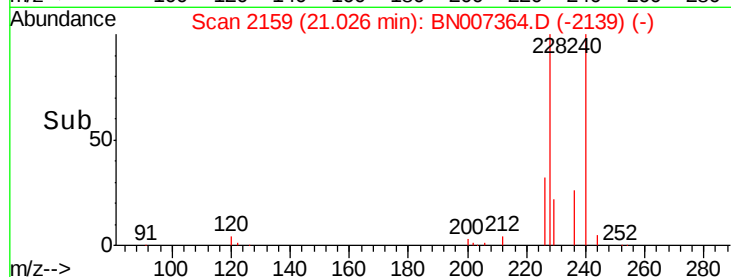
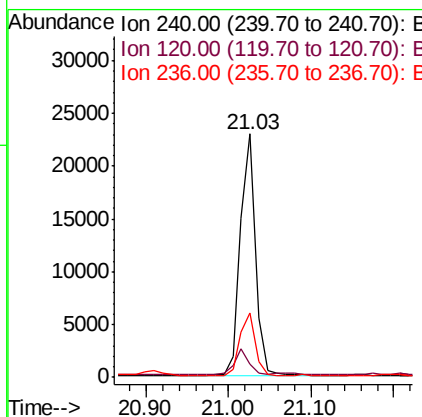
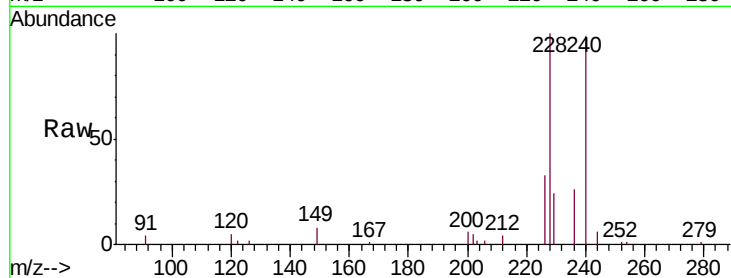
ClientSampleId :

S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.4   | 9.6   | 14.4# |
| 236     | 26.4  | 22.2  | 33.2  |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



#28

Pyrene

Concen: 3.322 ng

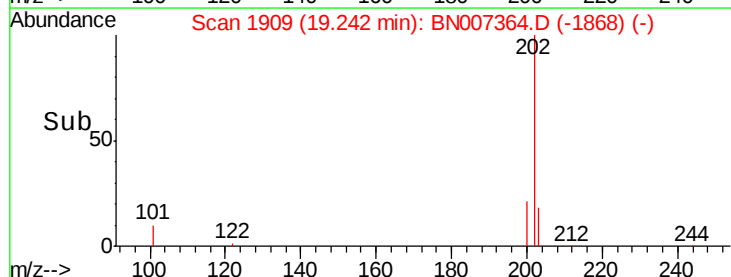
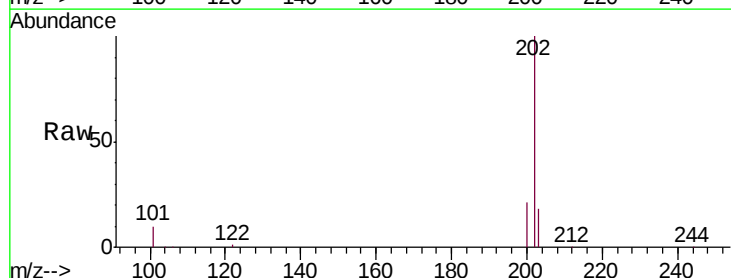
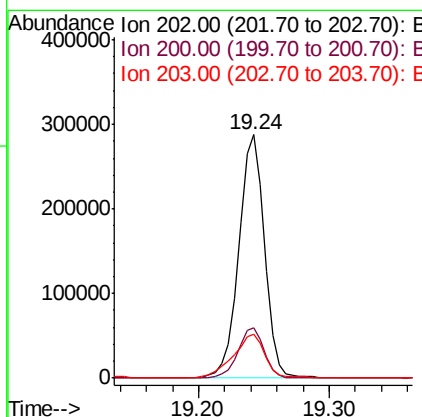
RT: 19.24 min Scan# 1909

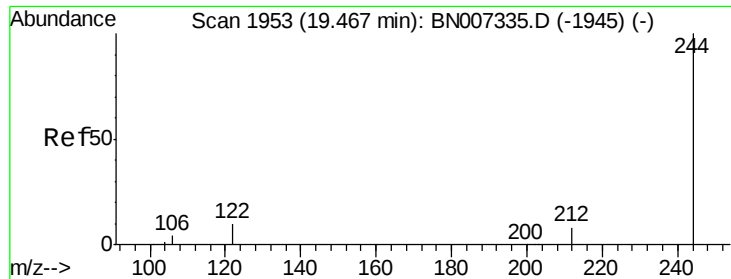
Delta R.T. 0.00 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.8  | 16.6  | 25.0  |
| 203     | 22.4  | 14.2  | 21.4# |





#29

Terphenyl-d14

Concen: 0.038 ng

RT: 19.47 min Scan# 1954

Delta R.T. -0.00 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

Instrument :

BNA\_N

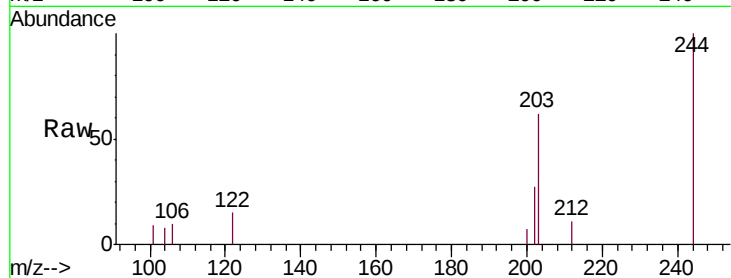
ClientSampleId :

S704-N-0.0-0.5-082119DL

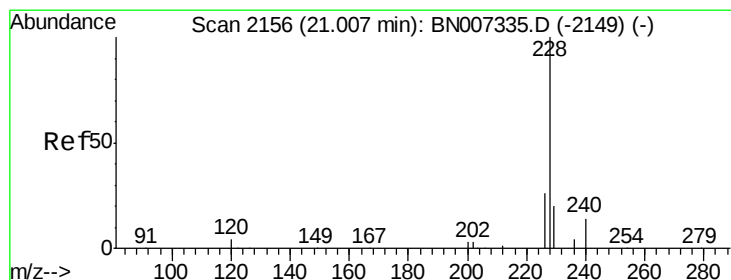
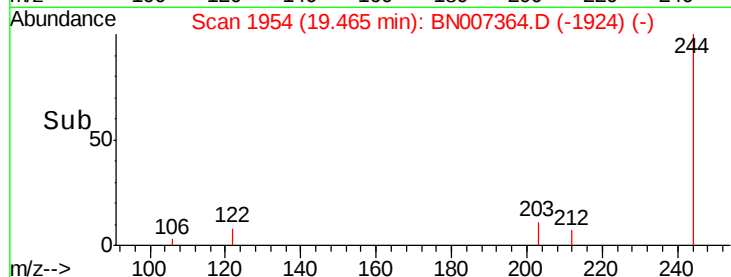
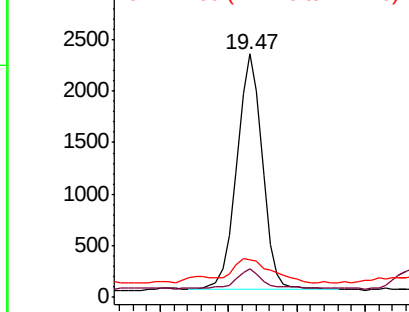
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 2936  |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 11.5  | 7.0   | 10.6# |
| 122       | 15.4  | 9.6   | 14.4# |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



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



#30

Benzo(a)anthracene

Concen: 1.754 ng

RT: 21.00 min Scan# 2157

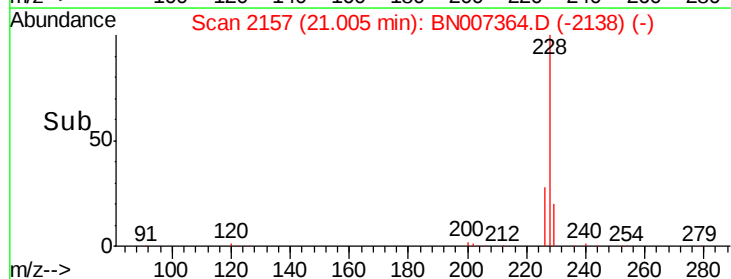
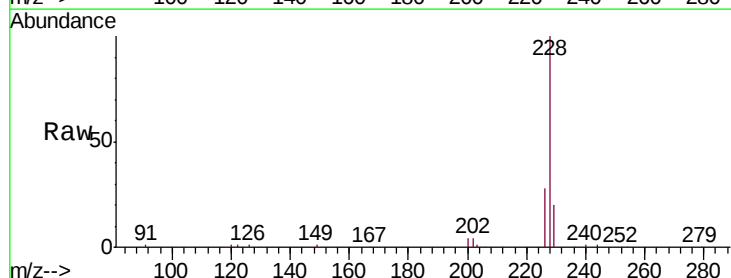
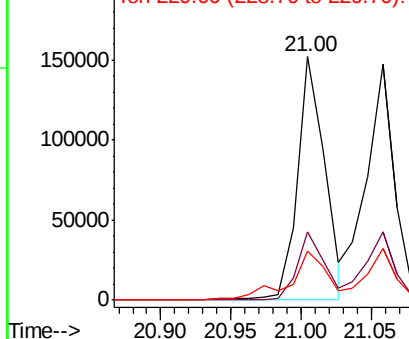
Delta R.T. -0.00 min

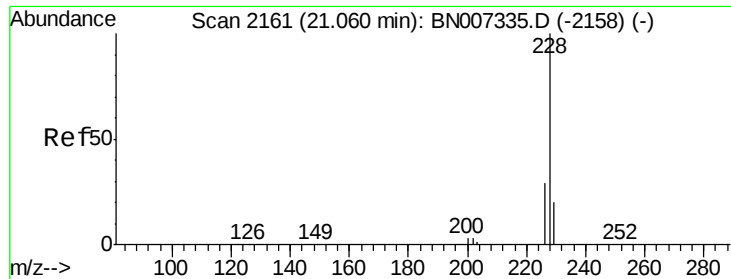
Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 204621 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.8  | 21.3  | 31.9   |
| 229       | 20.3  | 16.1  | 24.1   |

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





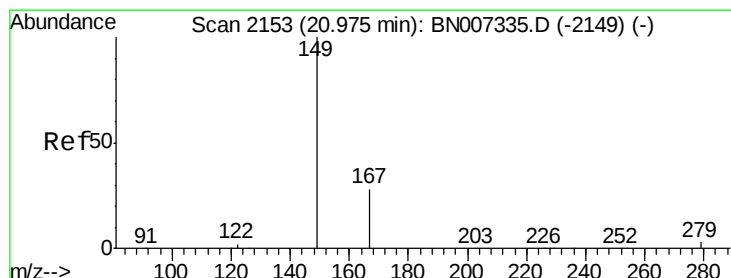
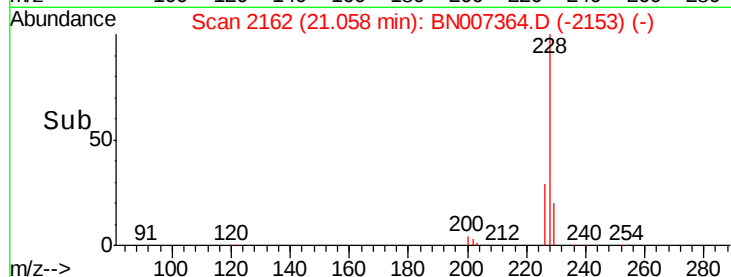
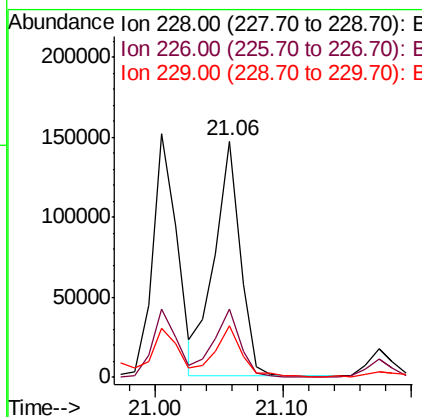
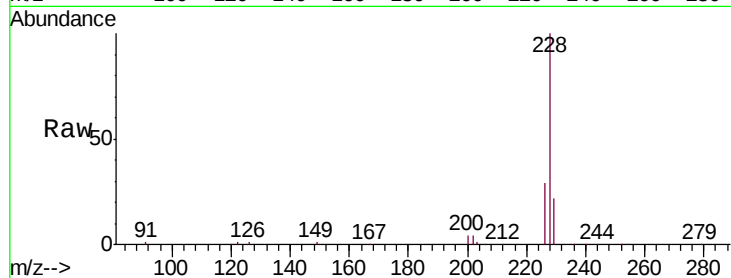
#31  
Chrysene  
Concen: 1.837 ng  
RT: 21.06 min Scan# 2162  
Delta R.T. -0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 23.5  | 35.3  |
| 229     | 21.9  | 16.6  | 24.8  |

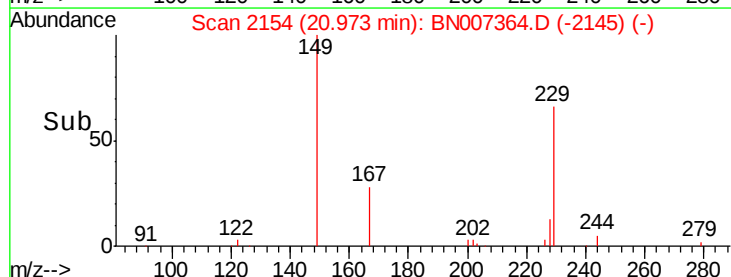
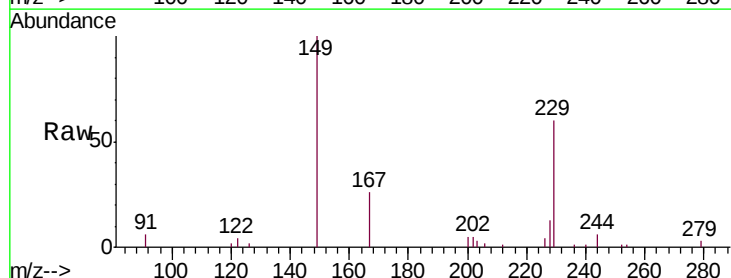
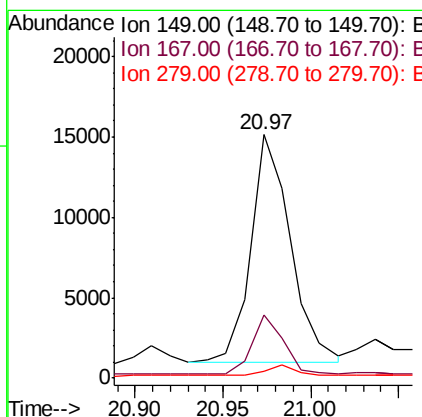
Manual Integrations  
APPROVED

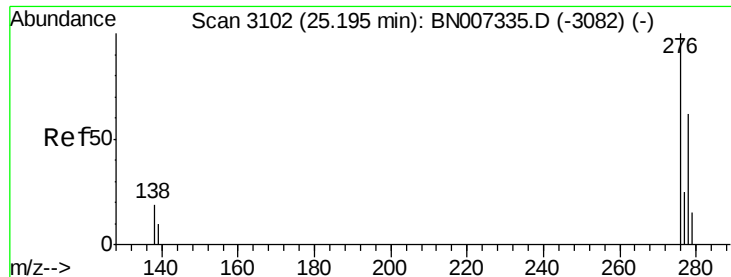
mohammad  
8/31/2019 2:40:05 PM



#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.277 ng  
RT: 20.97 min Scan# 2154  
Delta R.T. -0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 20.3  | 22.8  | 34.2# |
| 279     | 3.4   | 3.5   | 5.3#  |





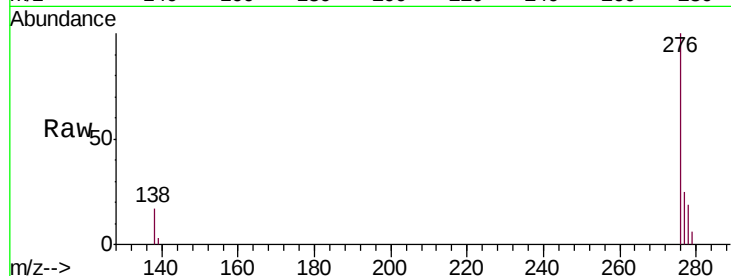
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 1.019 ng  
RT: 25.19 min Scan# 3103  
Delta R.T. -0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.5  | 15.1  | 22.7  |
| 277     | 24.4  | 19.7  | 29.5  |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM

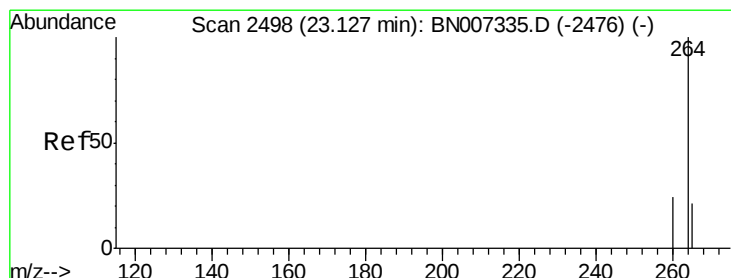
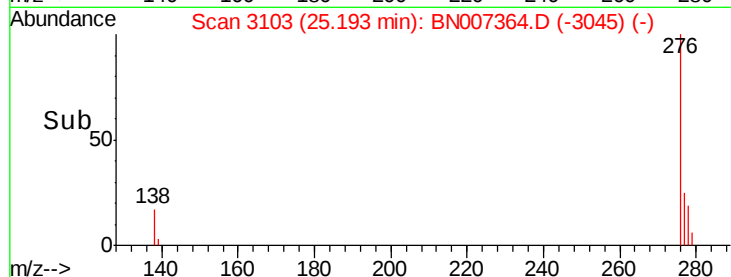
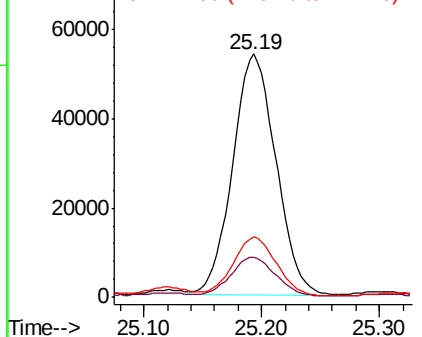


Abundance

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



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.13 min Scan# 2500  
Delta R.T. 0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

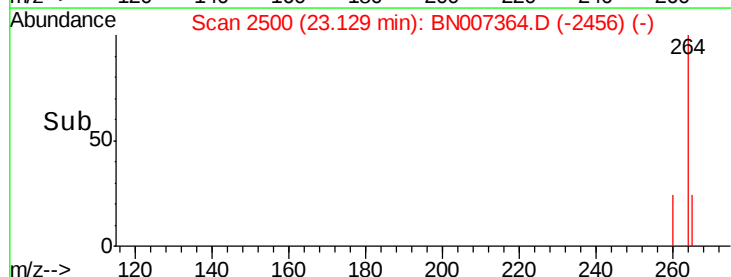
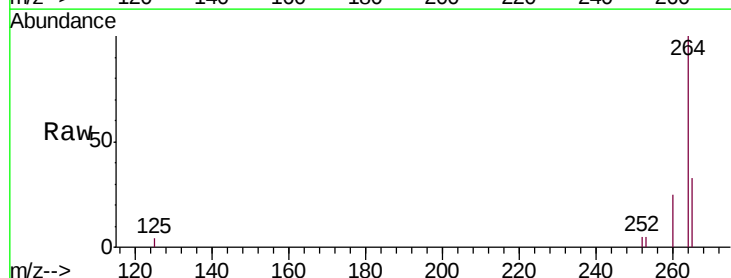
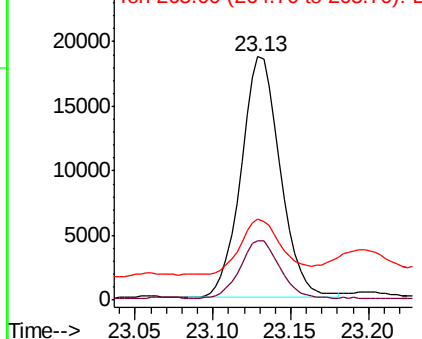
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.7  | 29.5  |
| 265     | 33.4  | 29.9  | 44.9  |

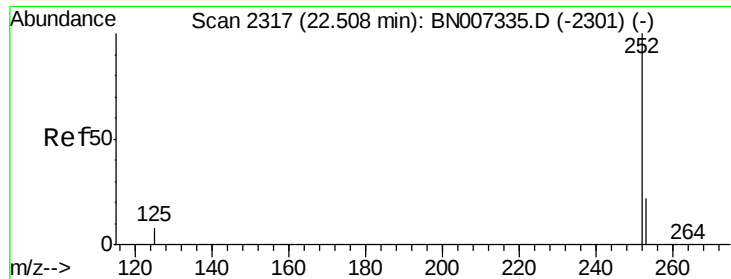
Abundance

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





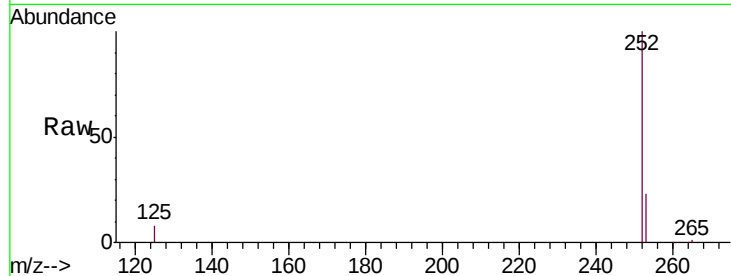
#35  
Benzo(b)fluoranthene  
Concen: 2.344 ng  
RT: 22.51 min Scan# 2320  
Delta R.T. 0.01 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

Instrument :  
BNA\_N  
ClientSampleId :  
S704-N-0.0-0.5-082119DL

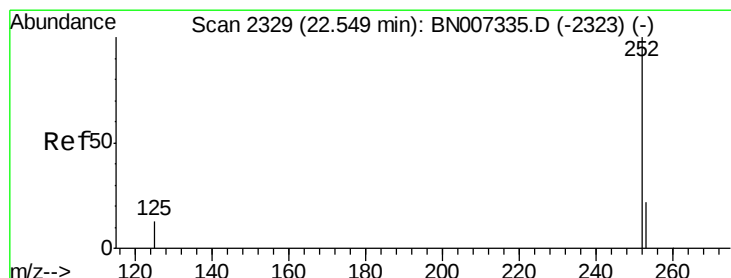
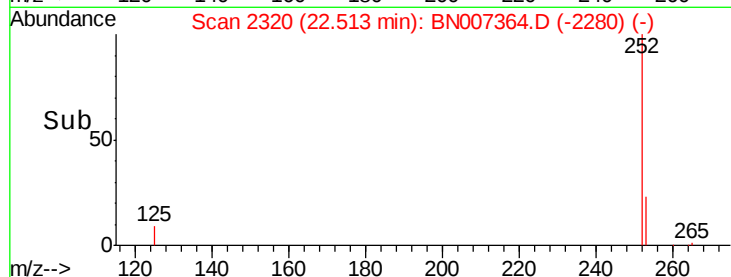
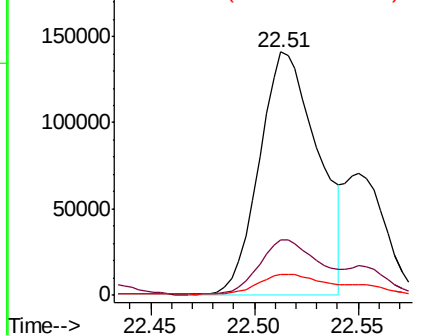
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.8  | 19.2       | 28.8  |
| 125     | 8.5   | 10.6       | 16.0  |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



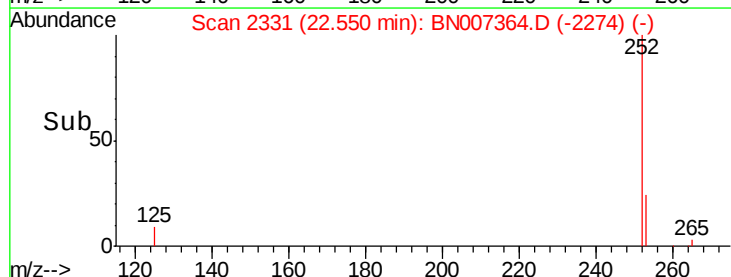
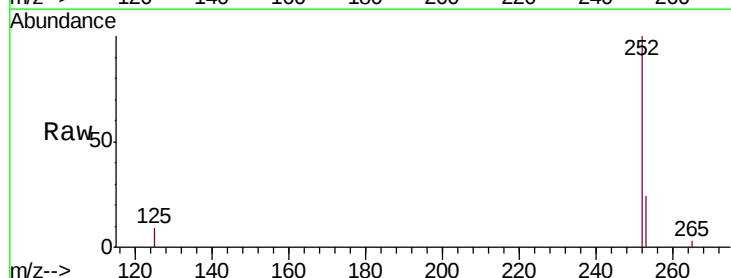
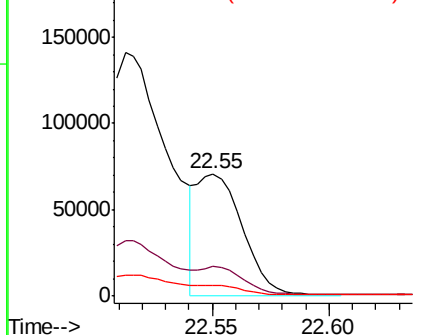
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

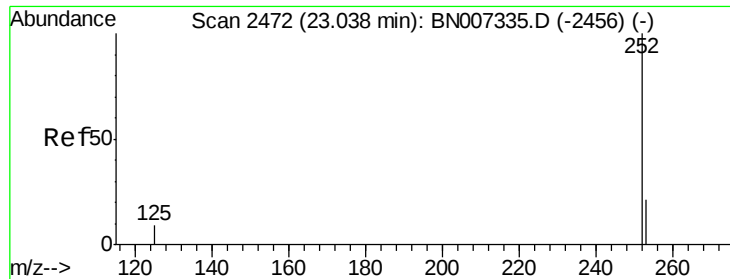


#36  
Benzo(k)fluoranthene  
Concen: 0.848 ng m  
RT: 22.55 min Scan# 2331  
Delta R.T. 0.00 min  
Lab File: BN007364.D  
Acq: 24 Aug 2019 15:31

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.9  | 19.4       | 29.2  |
| 125     | 9.0   | 13.1       | 19.7  |

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





#37

Benzo(a)pyrene

Concen: 1.206 ng/mL

RT: 22.95 min Scan# 2449

Delta R.T. -0.08 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

Instrument :

BNA\_N

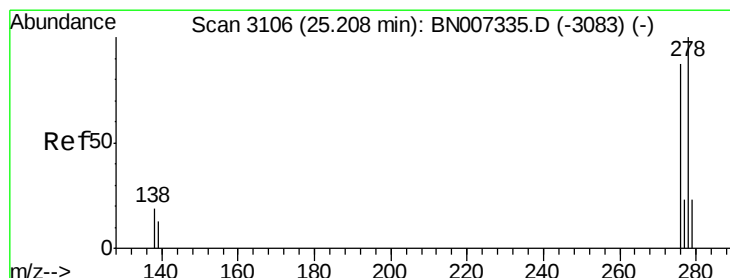
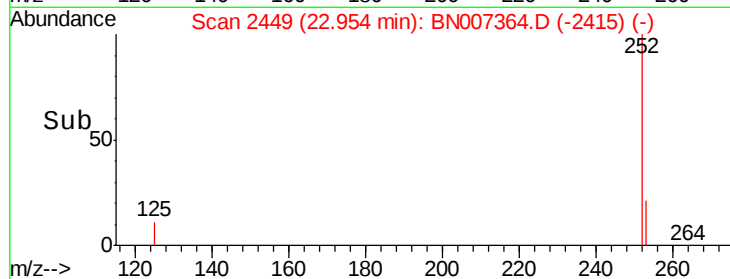
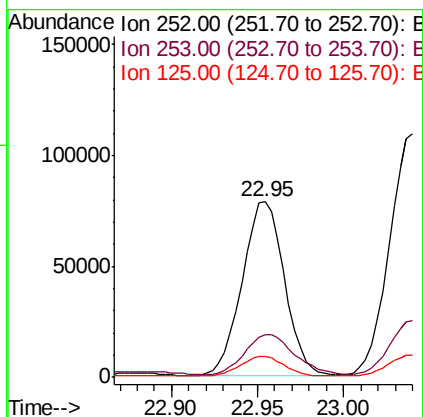
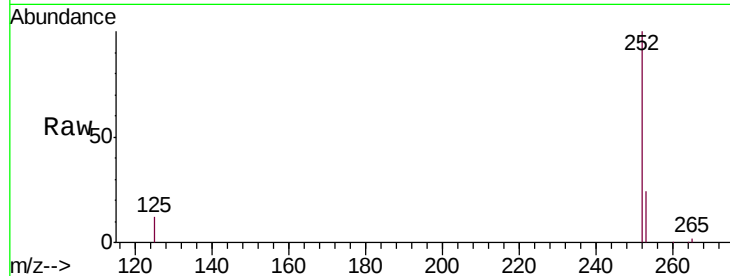
ClientSampleId :

S704-N-0.0-0.5-082119DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 135217 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.5  | 19.5  | 29.3   |
| 125       | 11.9  | 12.1  | 18.1   |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM



#38

Dibenzo(a,h)anthracene

Concen: 0.302 ng/mL

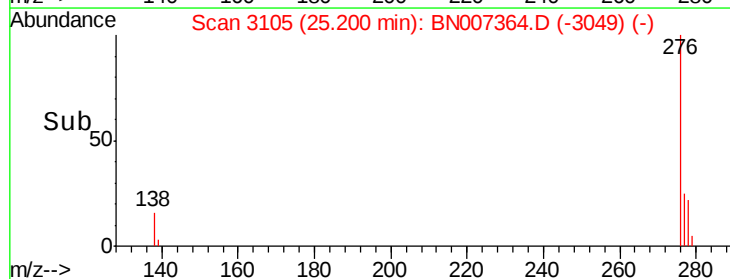
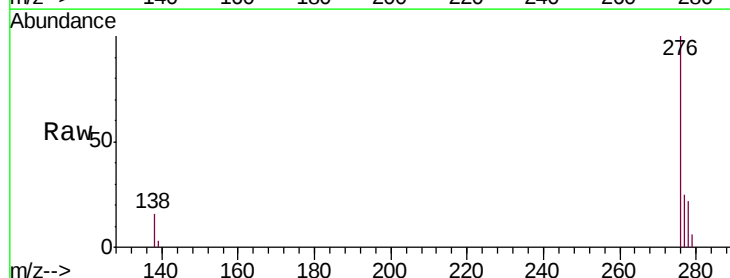
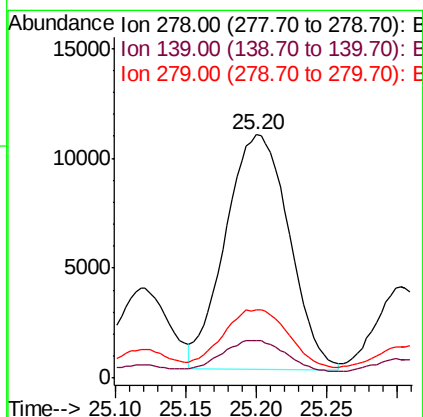
RT: 25.20 min Scan# 3105

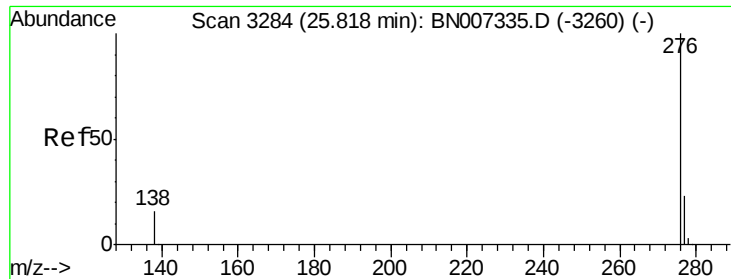
Delta R.T. -0.01 min

Lab File: BN007364.D

Acq: 24 Aug 2019 15:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 33756 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 15.3  | 13.7  | 20.5  |
| 279       | 28.3  | 20.2  | 30.4  |





#39

Benzo(a,h,i)perylene

Concen: 1.240 ng

RT: 25.82 min Scan# 3287

Delta R.T. 0.00 min

Lab File: BN007364.D

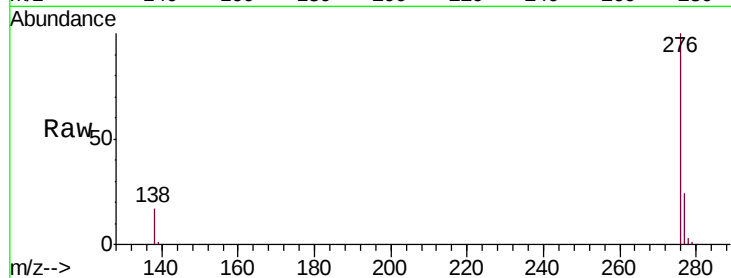
Acq: 24 Aug 2019 15:31

Instrument :

BNA\_N

ClientSampleId :

S704-N-0.0-0.5-082119DL



| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.9  | 19.6  | 29.4  |
| 138     | 16.9  | 16.3  | 24.5  |

Manual Integrations  
APPROVED

mohammad  
8/31/2019 2:40:05 PM

