

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
 Data File : BN013031.D  
 Acq On : 10 Dec 2020 03:21  
 Operator : CG/JU  
 Sample : L4941-15  
 Misc :  
 ALS Vial : 101 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B34

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Quant Time: Dec 10 05:26:25 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 10 05:16:28 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 1517     | 0.40  | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.14 | 136  | 6117     | 0.40  | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.04 | 164  | 3509     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.80 | 188  | 7062     | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.03 | 240  | 4737     | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.12 | 264  | 3889     | 0.40  | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.75 | 152  | 1448     | 0.16  | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 18.85 | 212  | 2779     | 0.14  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.19 | 128  | 4105     | 0.232 | ng/ul  | 94       |
| 5) 2-Methylnaphthalene      | 11.82 | 142  | 835      | 0.072 | ng/ul  | 96       |
| 7) Acenaphthylene           | 13.76 | 152  | 513      | 0.031 | ng/ul# | 77       |
| 8) Acenaphthene             | 14.11 | 153  | 1345     | 0.099 | ng/ul  | 99       |
| 9) Fluorene                 | 15.11 | 166  | 1162     | 0.074 | ng/ul  | 98       |
| 12) Phenanthrene            | 16.84 | 178  | 45701    | 1.930 | ng/ul  | 96       |
| 13) Anthracene              | 16.94 | 178  | 8864     | 0.440 | ng/ul  | 96       |
| 15) Fluoranthene            | 18.88 | 202  | 138670   | 4.928 | ng/ul  | 97       |
| 17) Pyrene                  | 19.25 | 202  | 124186   | 5.550 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.01 | 228  | 75848    | 3.870 | ng/ul  | 98       |
| 19) Chrysene                | 21.06 | 228  | 81717    | 3.774 | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.51 | 252  | 107882m  | 5.996 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.54 | 252  | 36911m   | 1.856 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.03 | 252  | 70181    | 4.204 | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.17 | 276  | 43875    | 2.001 | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.18 | 278  | 12257    | 0.707 | ng/ul  | 95       |
| 26) Benzo(a,h,i)perylene    | 25.81 | 276  | 37436    | 1.887 | ng/ul  | 96       |

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

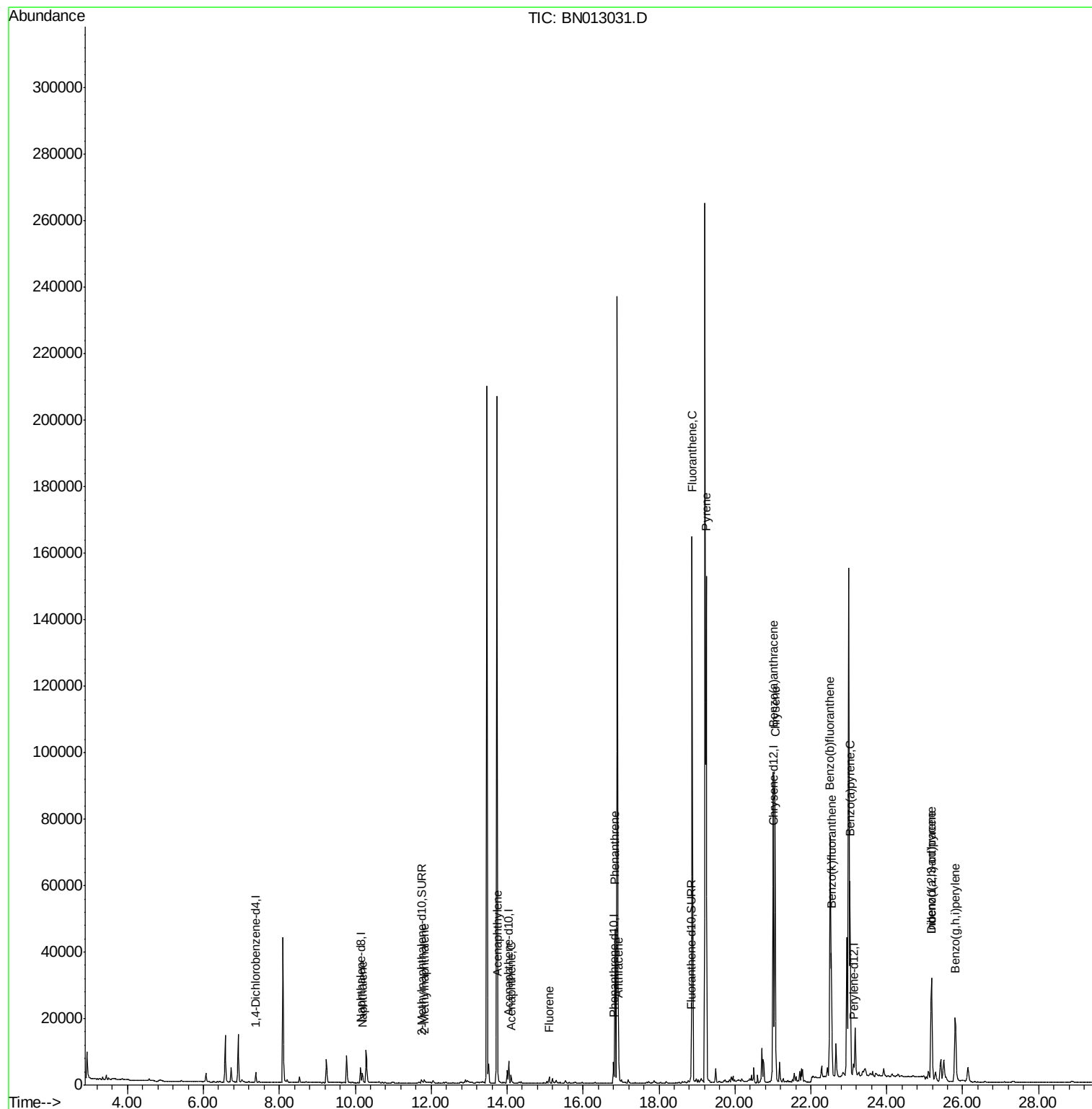
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
Data File : BN013031.D  
Acq On : 10 Dec 2020 03:21  
Operator : CG/JU  
Sample : L4941-15  
Misc :  
ALS Vial : 101 Sample Multiplier: 1

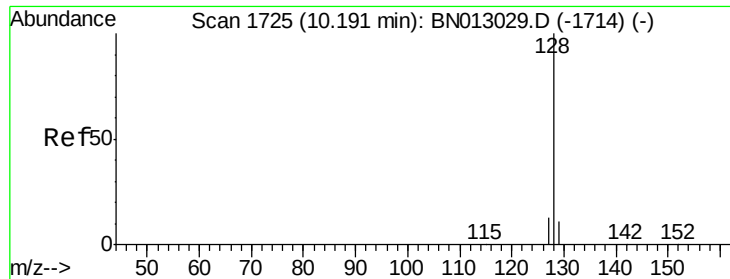
Instrument :  
BNA\_N  
ClientSampleId :  
C0B34

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Quant Time: Dec 10 05:26:25 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 10 05:16:28 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.232 ng/ul

RT: 10.19 min Scan# 1725

Delta R.T. -0.01 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

Instrument :

BNA\_N

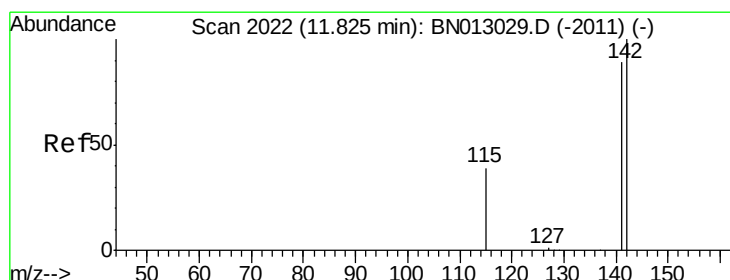
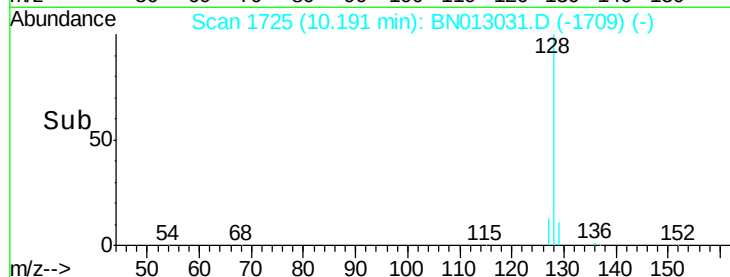
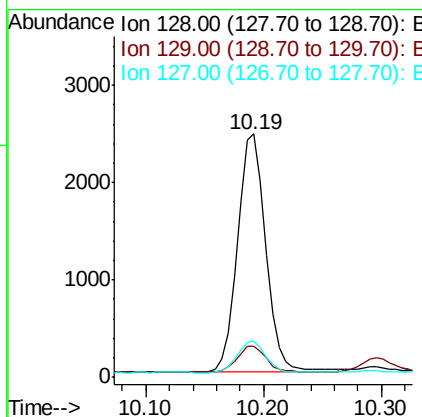
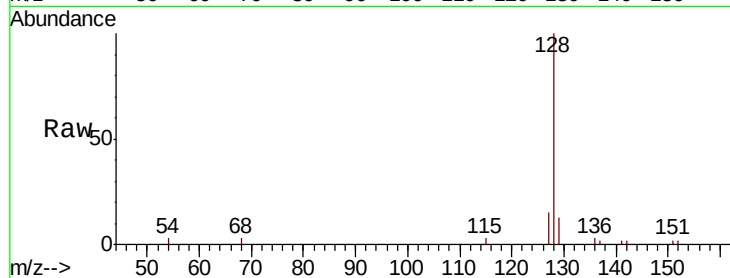
ClientSampleId :

C0B34

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 4105  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.0  | 12.3  | 18.5  |
| 127      | 14.7  | 14.2  | 21.4  |

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#5

2-Methylnaphthalene

Concen: 0.072 ng/ul

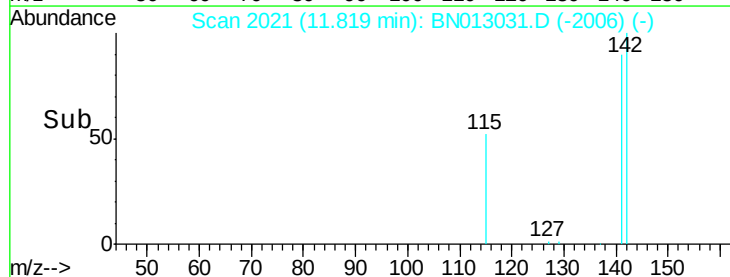
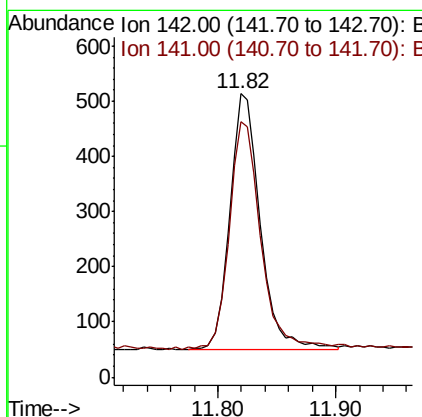
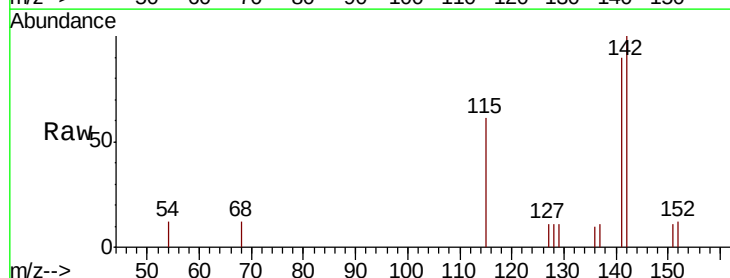
RT: 11.82 min Scan# 2021

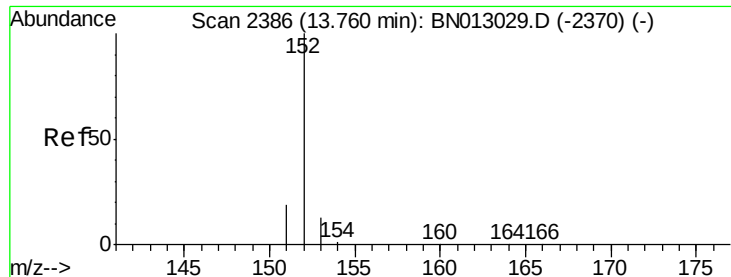
Delta R.T. -0.02 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 835   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 94.9  | 73.0  | 109.6 |





#7

Acenaphthylene

Concen: 0.031 ng/ul

RT: 13.76 min Scan# 2386

Delta R.T. -0.01 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

Instrument :

BNA\_N

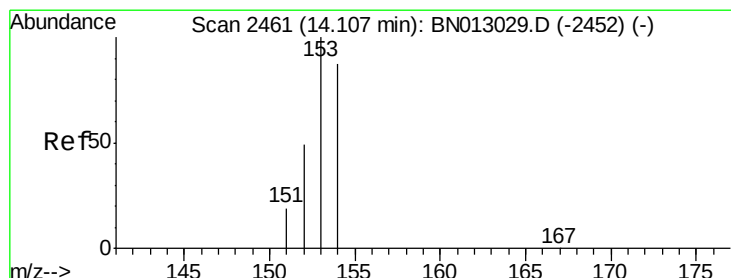
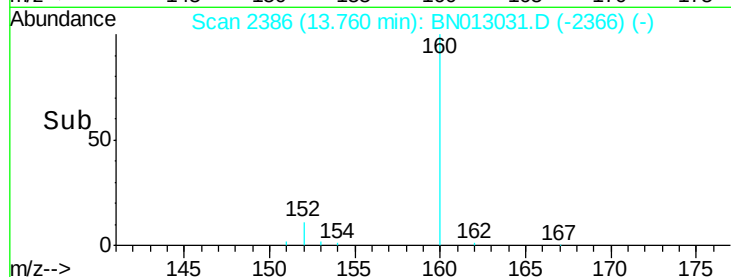
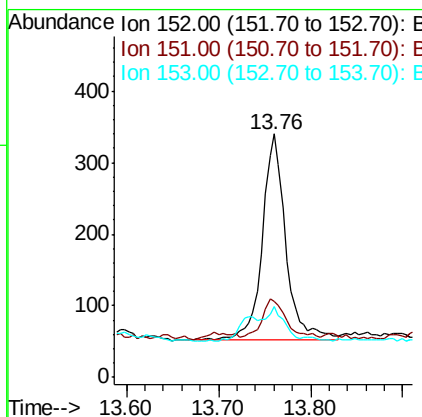
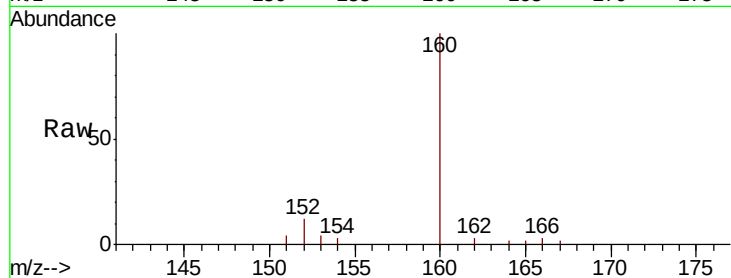
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 513   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 31.2  | 18.2  | 27.4# |
| 153       | 29.1  | 13.1  | 19.7# |

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#8

Acenaphthene

Concen: 0.099 ng/ul

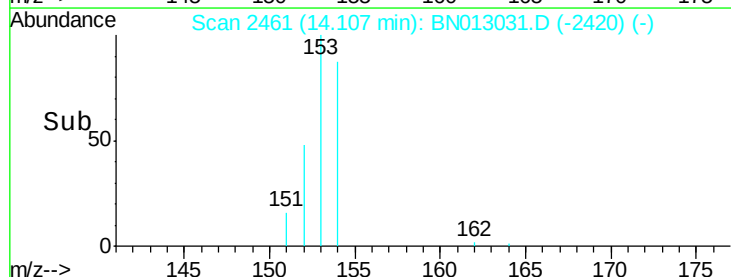
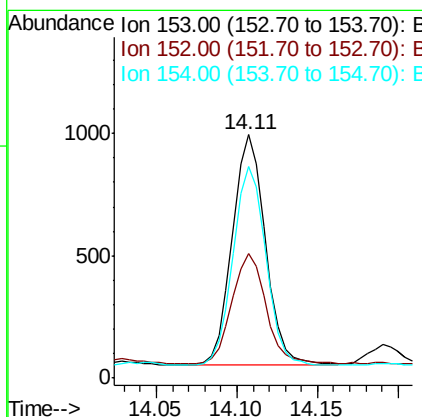
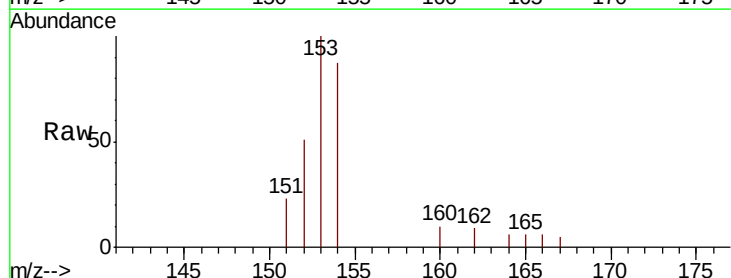
RT: 14.11 min Scan# 2461

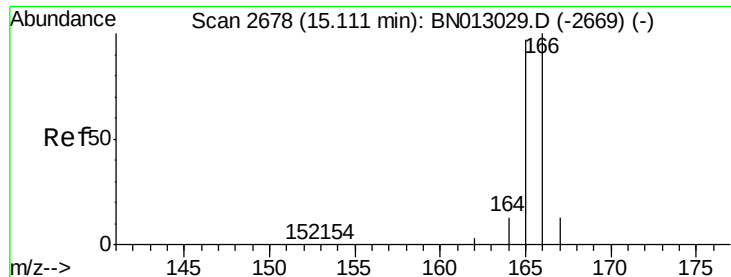
Delta R.T. -0.01 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1345  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 51.0  | 40.7  | 61.1  |
| 154       | 87.0  | 70.8  | 106.2 |





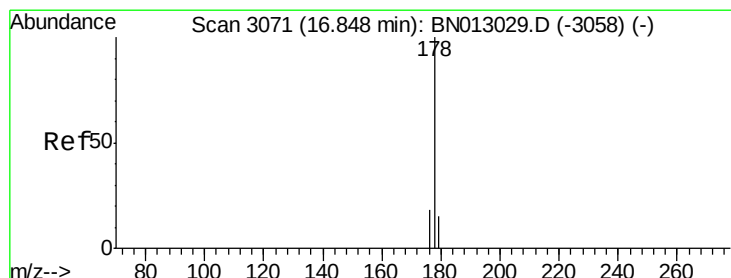
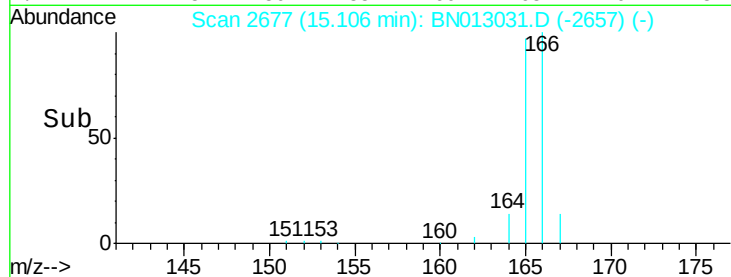
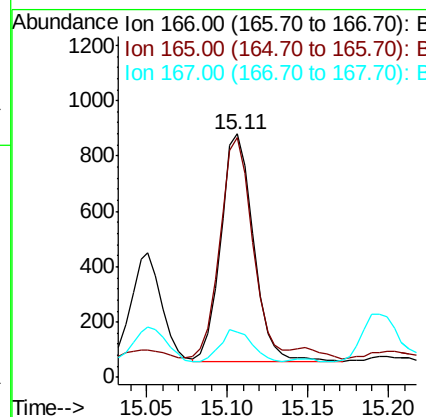
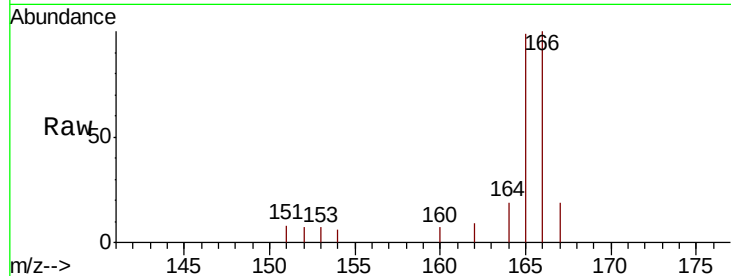
#9  
**Fluorene**  
 Concen: 0.074 ng/ul  
 RT: 15.11 min Scan# 2677  
 Delta R.T. -0.01 min  
 Lab File: BN013031.D  
 Acq: 10 Dec 2020 03:21

Instrument :  
 BNA\_N  
 ClientSampled :  
 C0B34

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 1162  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.5  | 79.8  | 119.8 |
| 167      | 18.6  | 13.8  | 20.8  |

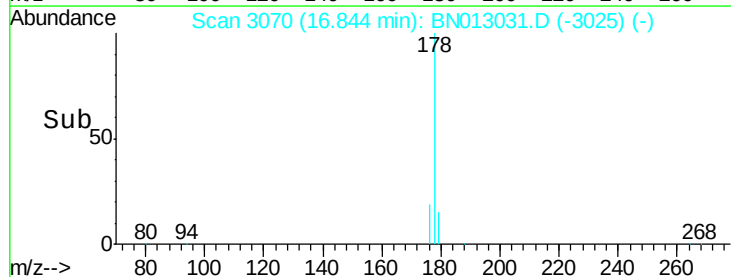
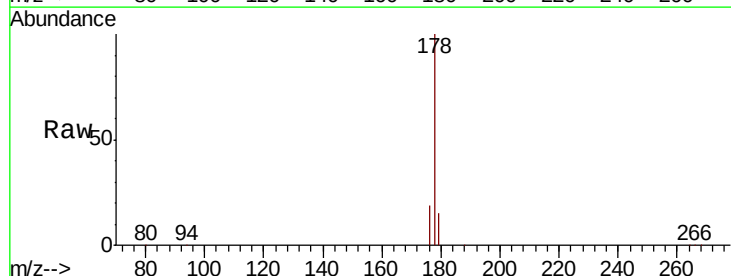
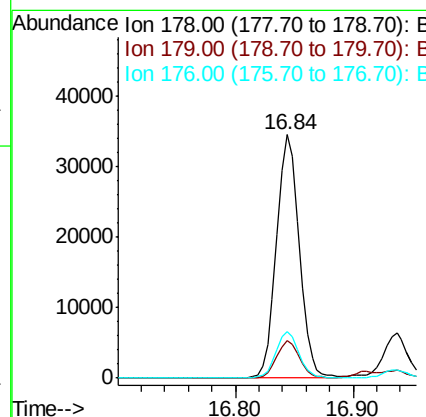
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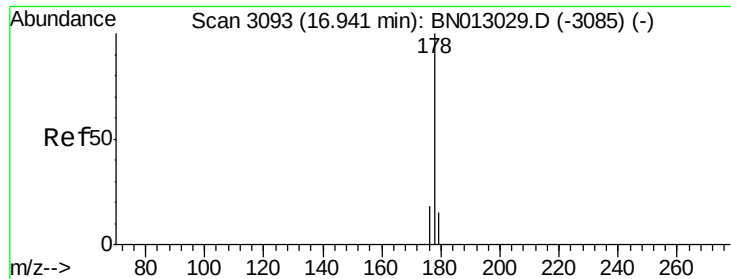
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#12  
**Phenanthrene**  
 Concen: 1.930 ng/ul  
 RT: 16.84 min Scan# 3070  
 Delta R.T. -0.01 min  
 Lab File: BN013031.D  
 Acq: 10 Dec 2020 03:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 45701 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 15.2  | 13.6  | 20.4  |
| 176      | 19.0  | 16.4  | 24.6  |





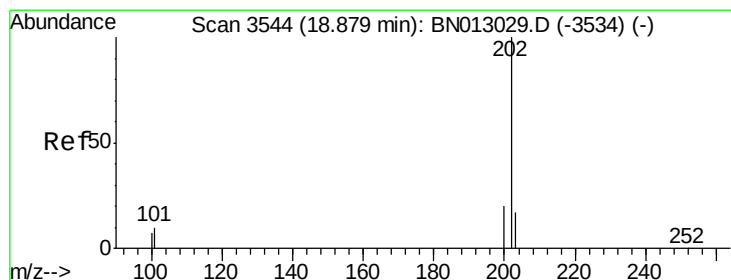
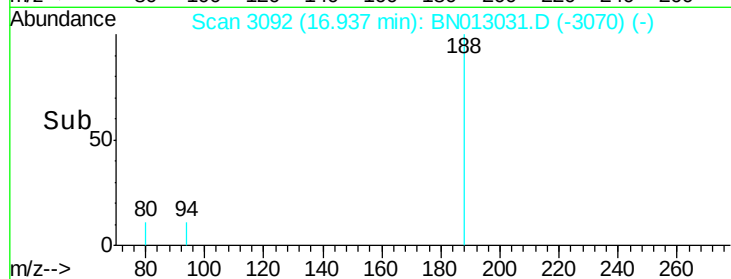
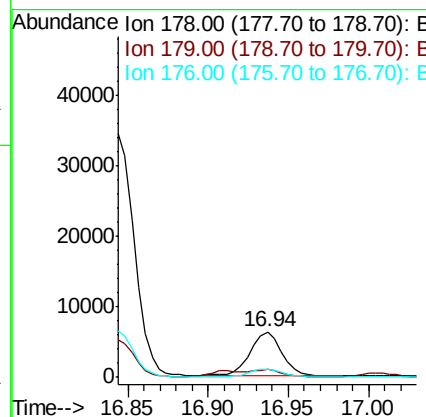
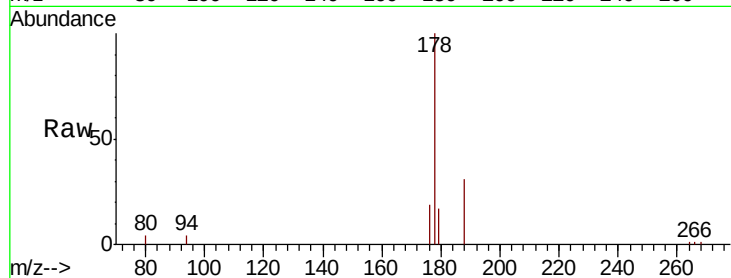
#13  
 Anthracene  
 Concen: 0.440 ng/ul  
 RT: 16.94 min Scan# 3092  
 Delta R.T. -0.01 min  
 Lab File: BN013031.D  
 Acq: 10 Dec 2020 03:21

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B34

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.7  | 14.6  | 21.8  |
| 176     | 18.9  | 17.1  | 25.7  |

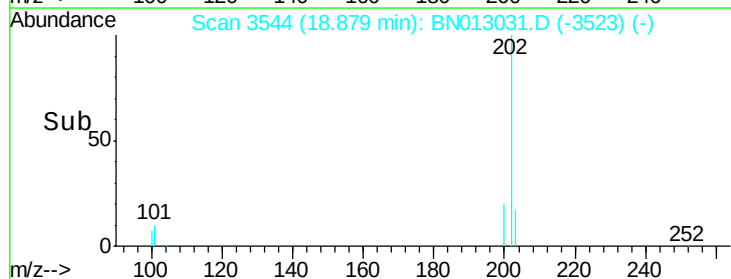
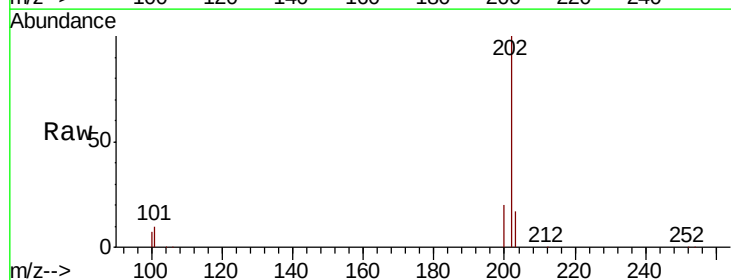
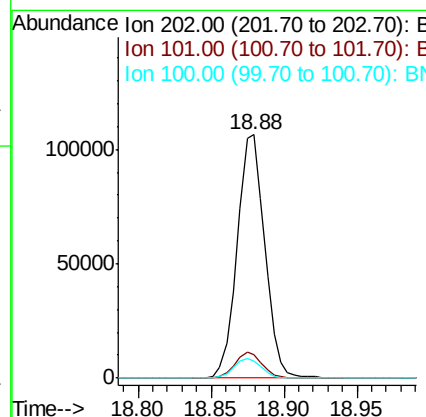
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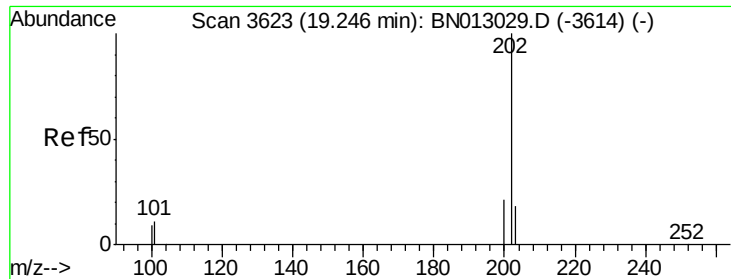
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#15  
 Fluoranthene  
 Concen: 4.928 ng/ul  
 RT: 18.88 min Scan# 3544  
 Delta R.T. -0.00 min  
 Lab File: BN013031.D  
 Acq: 10 Dec 2020 03:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.7   | 0.0   | 30.6  |
| 100     | 7.3   | 0.0   | 28.7  |





#17

Pvrene

Concen: 5.550 ng/ul

RT: 19.25 min Scan# 3623

Delta R.T. -0.00 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

Instrument :

BNA\_N

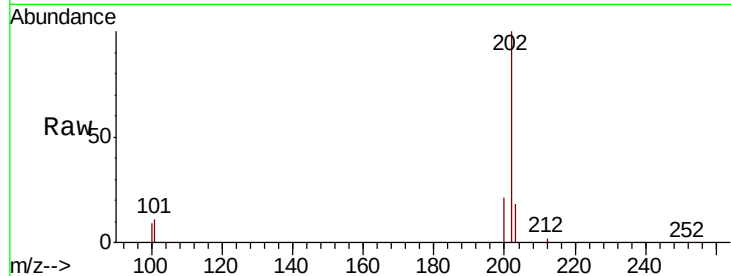
ClientSampleId :

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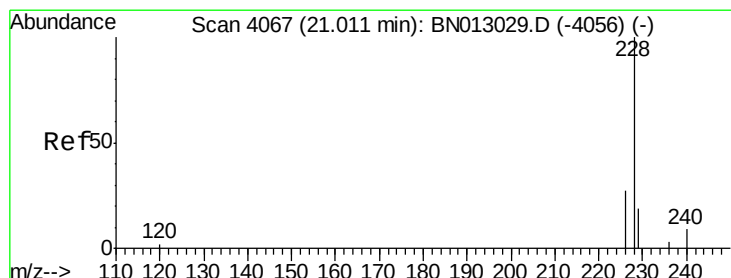
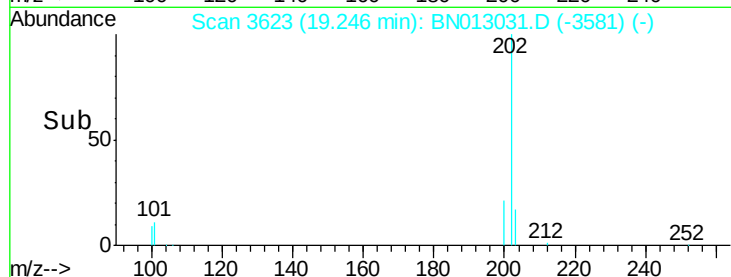
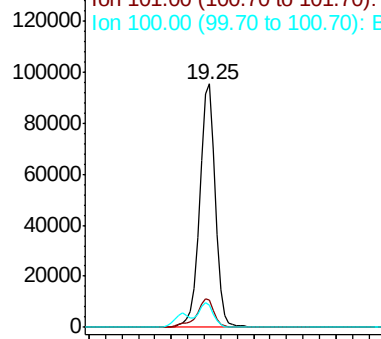
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 124186 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.2  | 9.1   | 13.7   |
| 100       | 9.1   | 7.5   | 11.3   |

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Abundance Ion 202.00 (201.70 to 202.70): E



#18

Benzo(a)anthracene

Concen: 3.870 ng/ul

RT: 21.01 min Scan# 4067

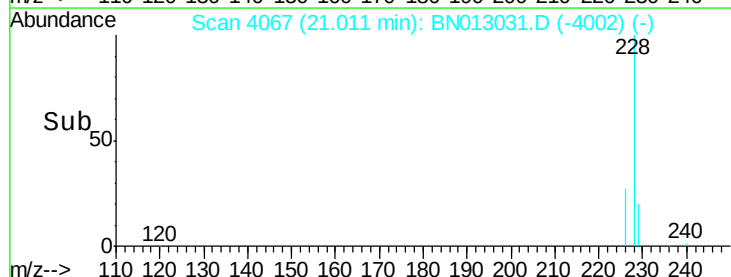
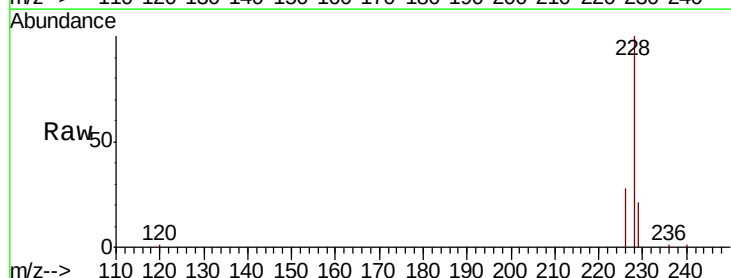
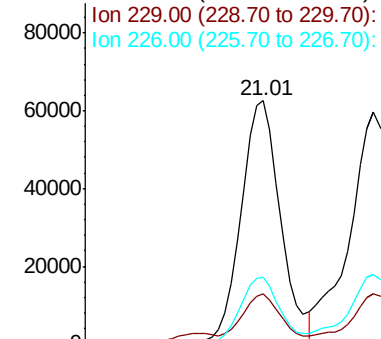
Delta R.T. -0.01 min

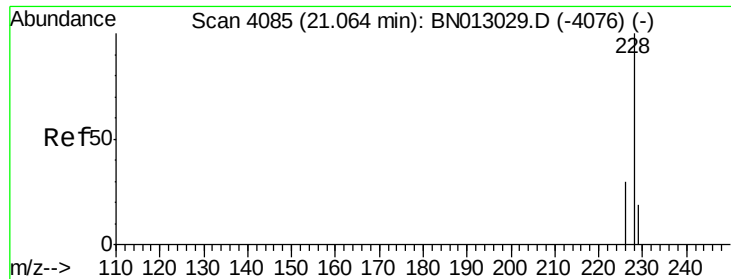
Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 75848 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 20.6  | 16.3  | 24.5  |
| 226       | 27.5  | 23.4  | 35.2  |

Abundance Ion 228.00 (227.70 to 228.70): E





#19

Chrysene

Concen: 3.774 ng/ul

RT: 21.06 min Scan# 4084

Delta R.T. -0.01 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

Instrument :

BNA\_N

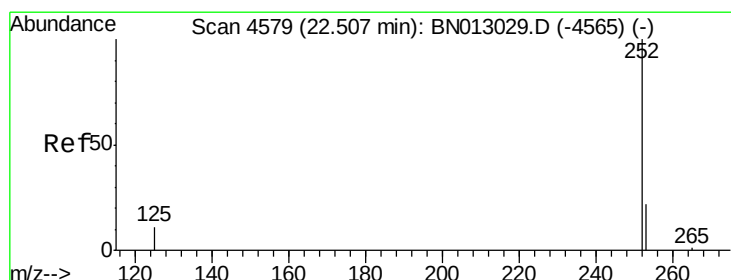
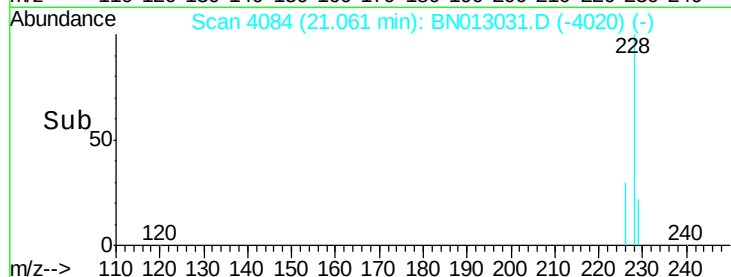
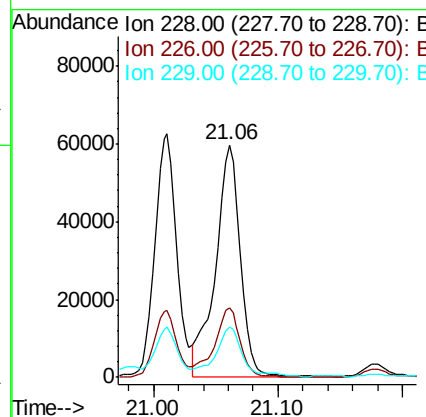
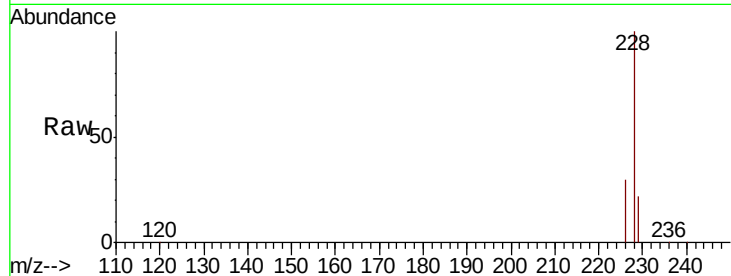
ClientSampleId :

C0B34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 81717 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 25.0  | 37.6  |
| 229       | 21.9  | 16.4  | 24.6  |

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#21

Benzo(b)fluoranthene

Concen: 5.996 ng/ul m

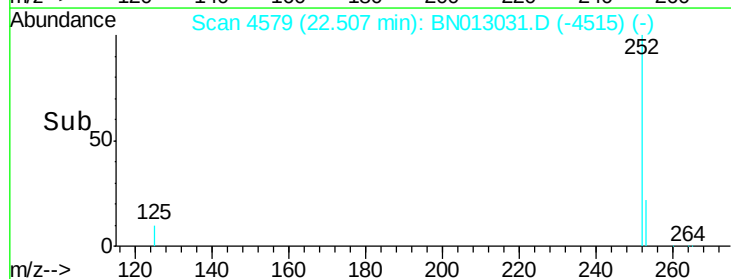
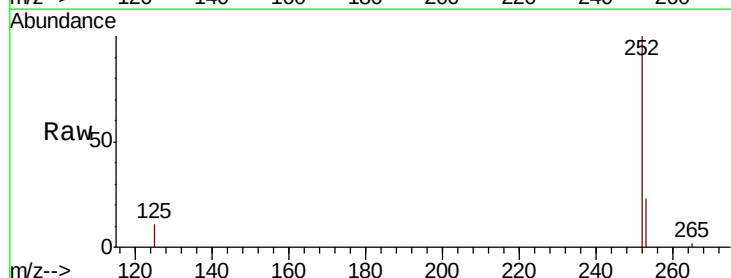
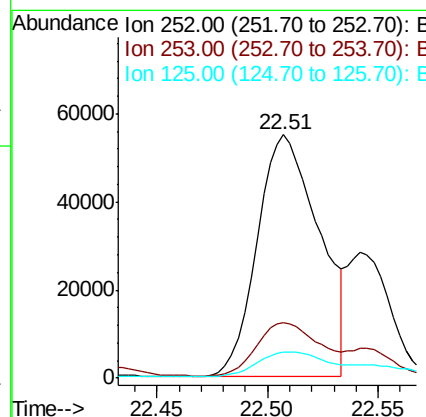
RT: 22.51 min Scan# 4579

Delta R.T. -0.01 min

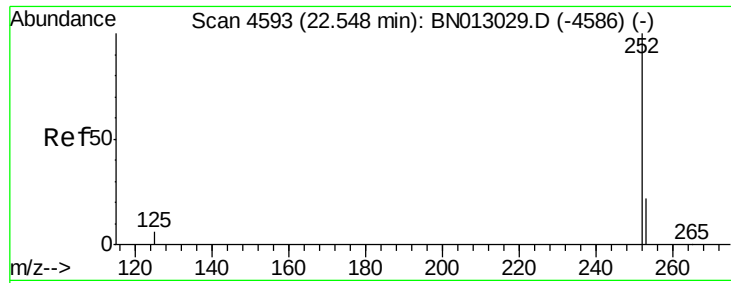
Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 107882 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 0.0   | 59.6   |
| 125       | 10.6  | 0.0   | 26.0   |







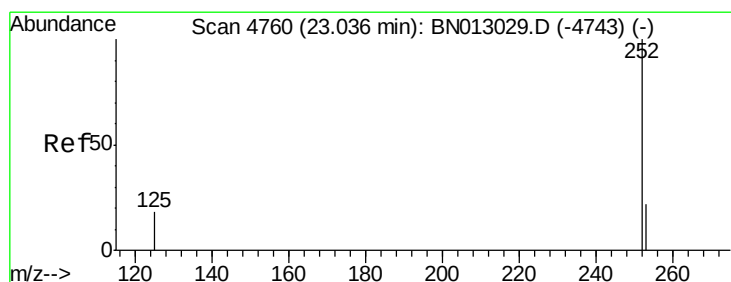
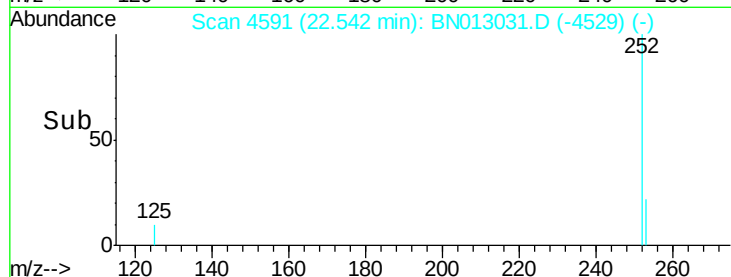
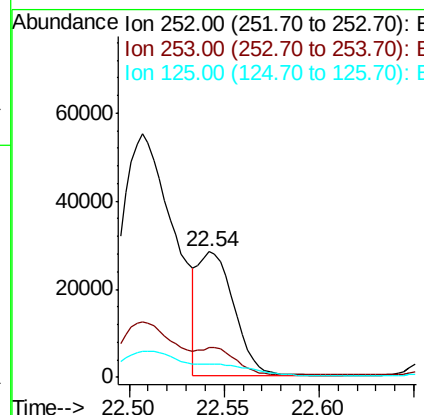
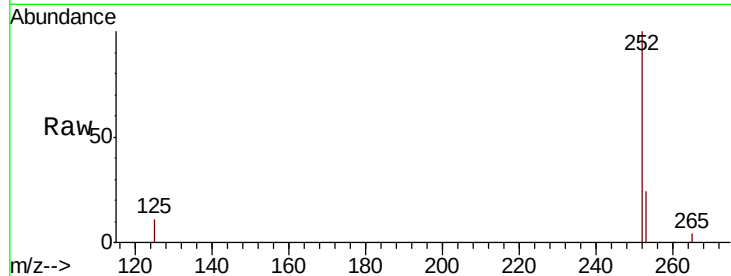
#22  
Benzo(k)fluoranthene  
Concen: 1.856 ng/ul m  
RT: 22.54 min Scan# 4591  
Delta R.T. -0.02 min  
Lab File: BN013031.D  
Acq: 10 Dec 2020 03:21

Instrument :  
BNA\_N  
ClientSampleId :  
C0B34

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 23.4  | 35.2  |
| 125     | 11.0  | 11.1  | 16.7  |

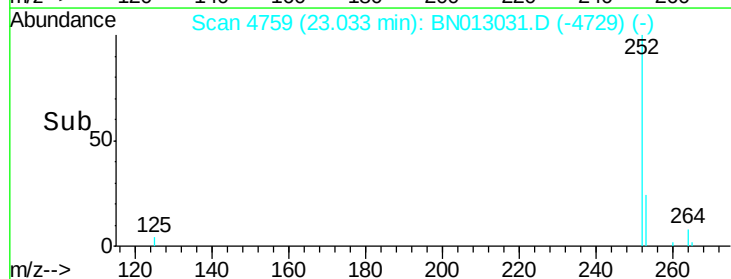
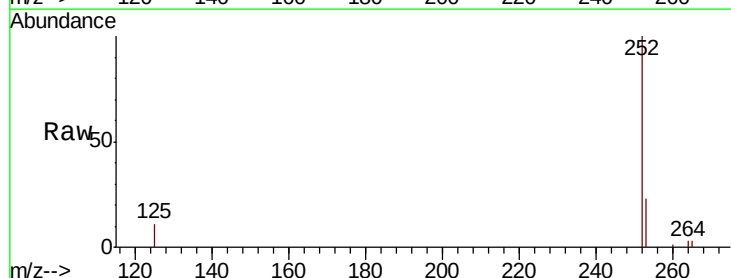
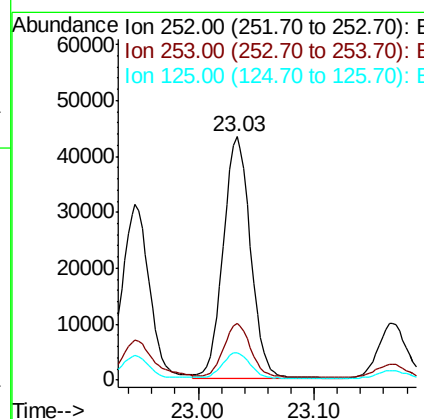
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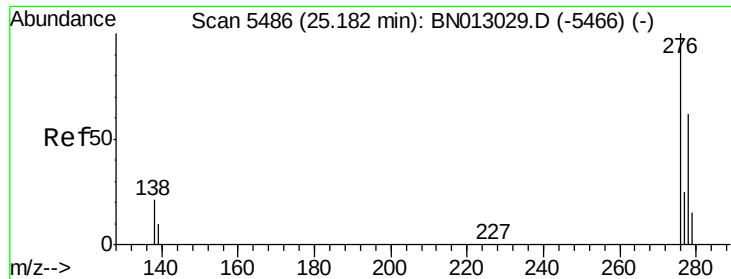
mohammad  
12/11/2020 1:18:32 PM



#23  
Benzo(a)pyrene  
Concen: 4.204 ng/ul  
RT: 23.03 min Scan# 4759  
Delta R.T. -0.01 min  
Lab File: BN013031.D  
Acq: 10 Dec 2020 03:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 26.5  | 39.7  |
| 125     | 11.2  | 14.2  | 21.2  |





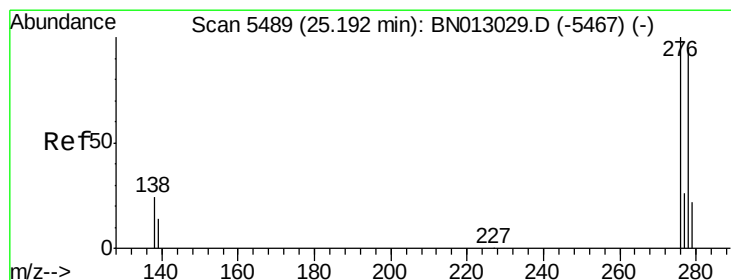
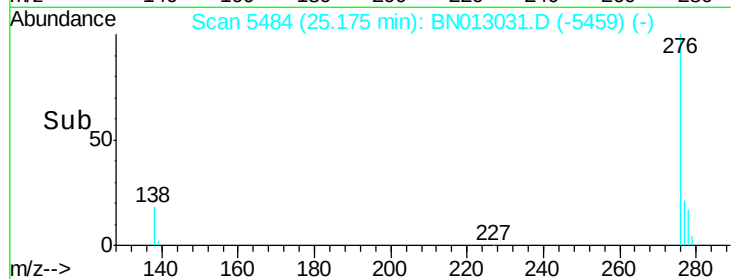
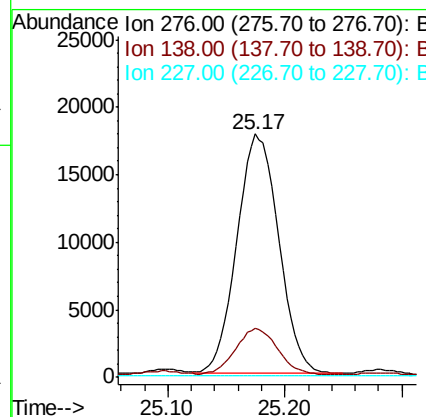
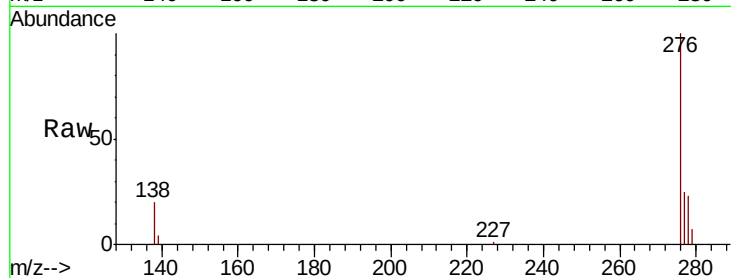
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 2.001 ng/ul  
RT: 25.17 min Scan# 5484  
Delta R.T. -0.02 min  
Lab File: BN013031.D  
Acq: 10 Dec 2020 03:21

Instrument :  
BNA\_N  
ClientSampleId :  
C0B34

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.4  | 16.2  | 24.2  |
| 227     | 0.0   | 0.0   | 0.0   |

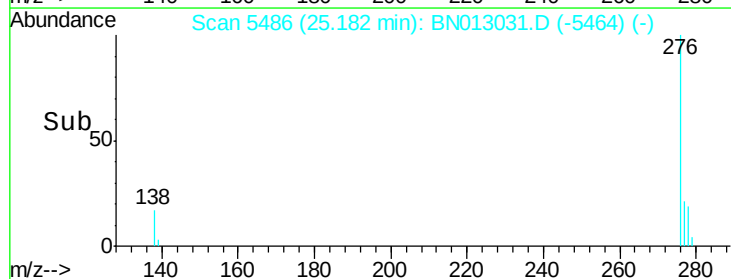
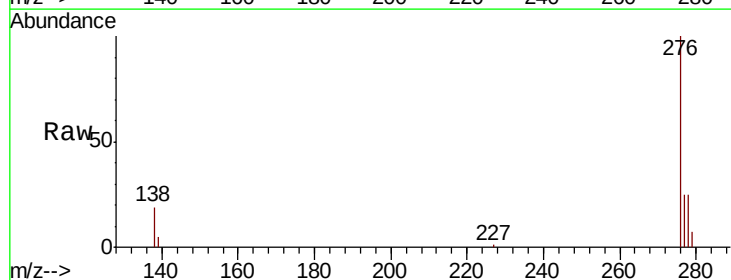
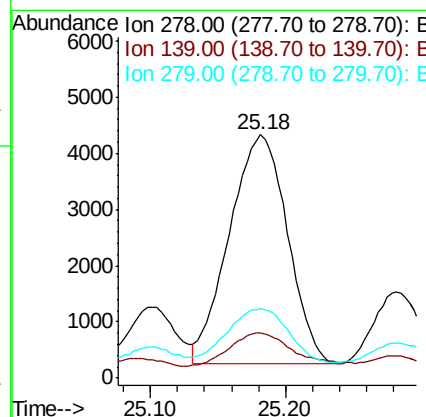
Manual Integrations  
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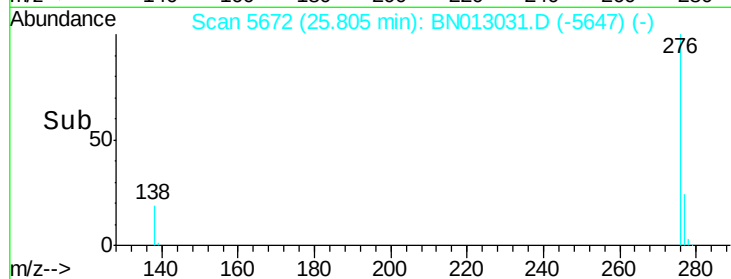
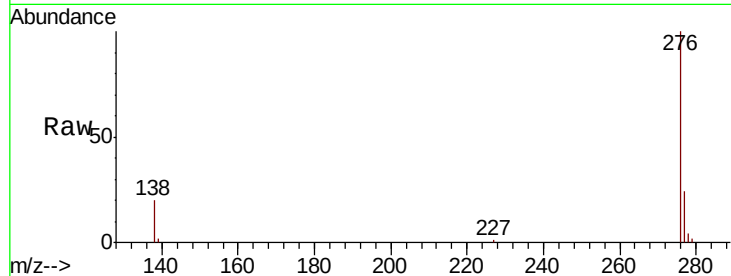
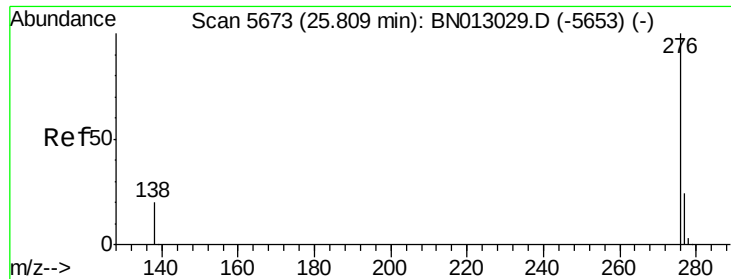
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12/11/2020 1:18:32 PM



#25  
Dibenzo(a,h)anthracene  
Concen: 0.707 ng/ul  
RT: 25.18 min Scan# 5486  
Delta R.T. -0.03 min  
Lab File: BN013031.D  
Acq: 10 Dec 2020 03:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.3  | 14.5  | 21.7  |
| 279     | 28.8  | 26.3  | 39.5  |





#26

Benzo(a,h,i)perylene

Concen: 1.887 ng/ul

RT: 25.81 min Scan# 5672

Delta R.T. -0.02 min

Lab File: BN013031.D

Acq: 10 Dec 2020 03:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 37436 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.9  | 16.3  | 24.5  |
| 277       | 24.3  | 21.8  | 32.6  |

Instrument :

BNA\_N

ClientSampleId :

C0B34

Manual Integrations  
APPROVED

mohammad  
12/11/2020 1:18:32 PM

