

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120320\  
 Data File : BN012867.D  
 Acq On : 04 Dec 2020 08:53  
 Operator : CG/JU  
 Sample : L4866-01DL 5X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B74DL

Manual Integrations  
 APPROVED

mohammad  
 12/7/2020 8:51:59 AM

Quant Time: Dec 04 10:00:06 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 03 15:27:55 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 655      | 0.40   | ng/ul  | -0.02    |
| 2) Naphthalene-d8           | 10.15 | 136  | 2373     | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.06 | 164  | 1323     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.81 | 188  | 3014     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.04 | 240  | 2937     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.14 | 264  | 2911     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.76 | 152  | 143      | 0.04   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 18.86 | 212  | 365      | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.20 | 128  | 138      | 0.020  | ng/ul# | 39       |
| 7) Acenaphthylene           | 13.77 | 152  | 257      | 0.041  | ng/ul# | 61       |
| 8) Acenaphthene             | 14.12 | 153  | 284      | 0.055  | ng/ul# | 92       |
| 9) Fluorene                 | 15.12 | 166  | 425      | 0.072  | ng/ul# | 94       |
| 12) Phenanthrene            | 16.86 | 178  | 14905    | 1.475  | ng/ul  | 97       |
| 13) Anthracene              | 16.95 | 178  | 1881     | 0.219  | ng/ul  | 98       |
| 15) Fluoranthene            | 18.89 | 202  | 42193    | 3.514  | ng/ul  | 94       |
| 17) Pyrene                  | 19.26 | 202  | 36042    | 2.598  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.02 | 228  | 16159    | 1.330  | ng/ul  | 99       |
| 19) Chrysene                | 21.08 | 228  | 21185    | 1.578  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.52 | 252  | 32304m   | 2.399  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.56 | 252  | 11838m   | 0.795  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.05 | 252  | 20084m   | 1.607  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.20 | 276  | 16092    | 0.980  | ng/ul# | 95       |
| 25) Dibenzo(a,h)anthracene  | 25.21 | 278  | 3513     | 0.271  | ng/ul  | 98       |
| 26) Benzo(a,h,i)perylene    | 25.83 | 276  | 15268    | 1.028  | ng/ul  | 97       |

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

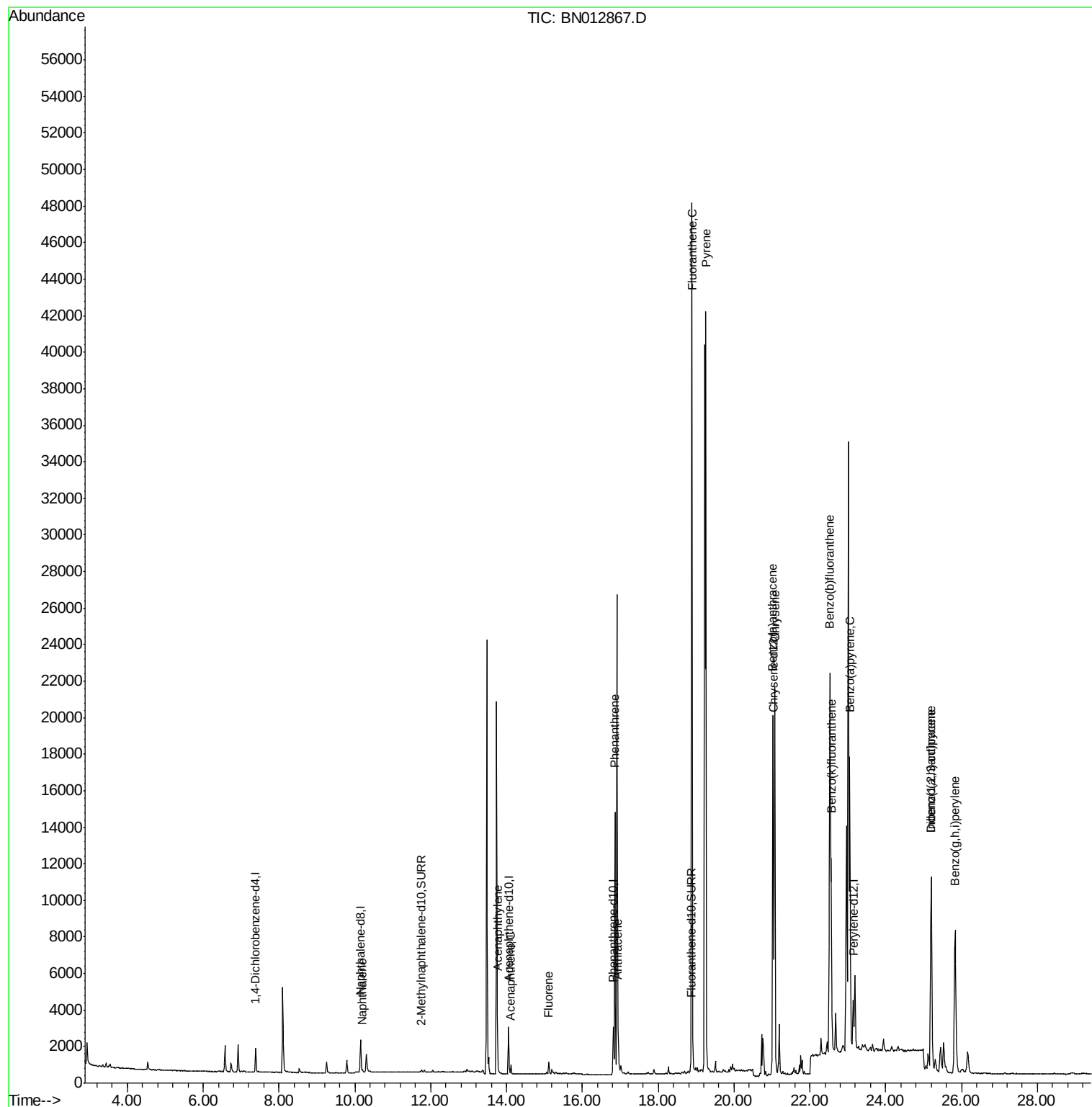
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120320\  
Data File : BN012867.D  
Acq On : 04 Dec 2020 08:53  
Operator : CG/JU  
Sample : L4866-01DL 5X  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

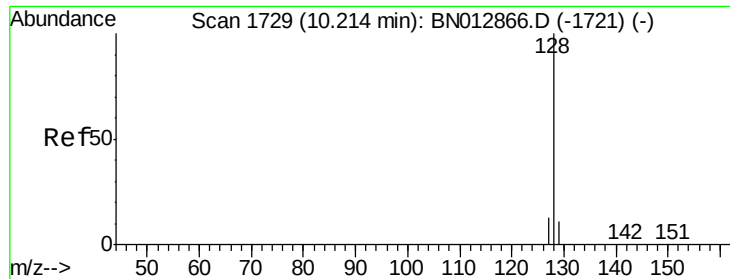
Instrument :  
BNA\_N  
ClientSampleId :  
C0B74DL

Manual Integrations  
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Quant Time: Dec 04 10:00:06 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 03 15:27:55 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.020 ng/ul

RT: 10.20 min Scan# 1727

Delta R.T. -0.02 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

Instrument :

BNA\_N

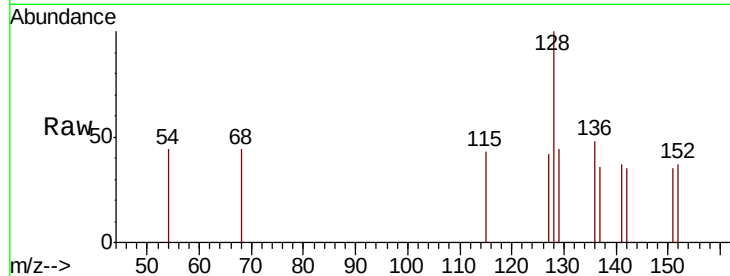
ClientSampleId :

C0B74DL

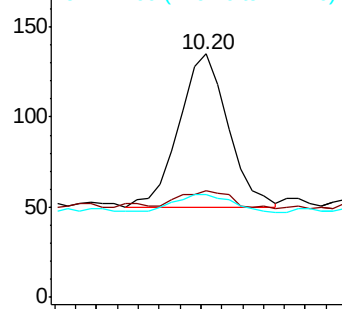
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 138   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 43.7  | 12.3  | 18.5# |
| 127       | 42.2  | 14.2  | 21.4# |

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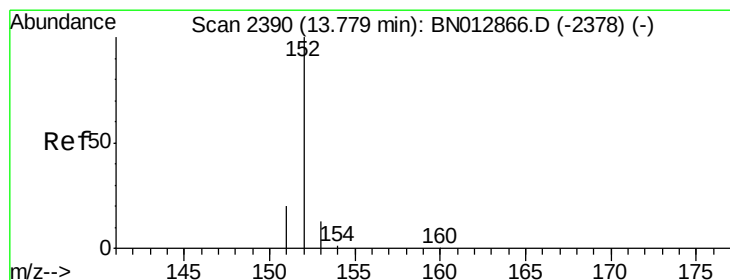
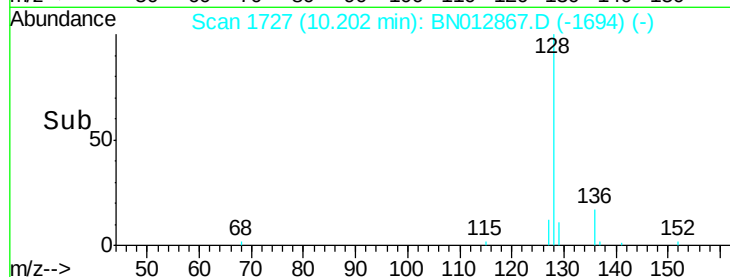
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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



Time-->



#7

Acenaphthylene

Concen: 0.041 ng/ul

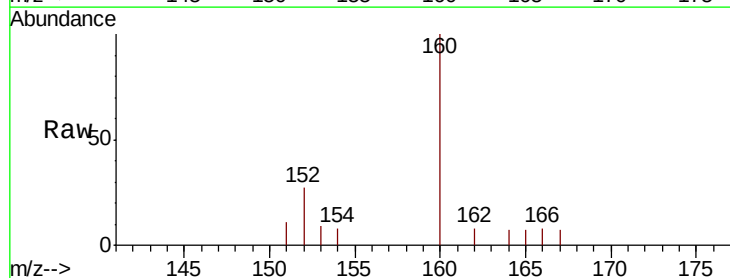
RT: 13.77 min Scan# 2388

Delta R.T. -0.01 min

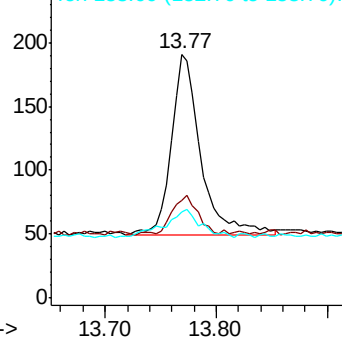
Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

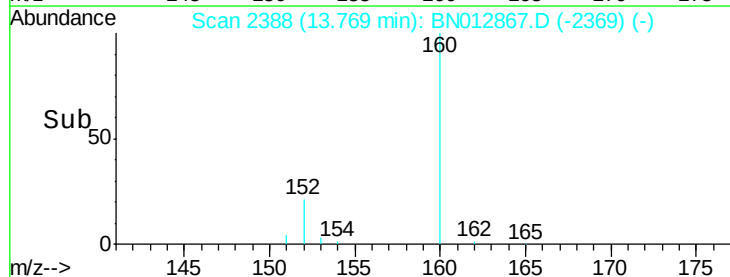
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 257   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 39.8  | 18.2  | 27.4# |
| 153       | 35.1  | 13.1  | 19.7# |

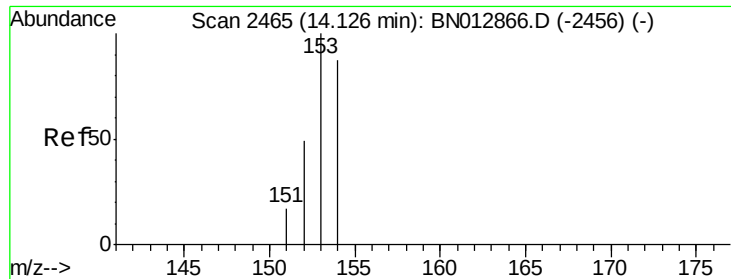


Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



Time-->





#8

Acenaphthene

Concen: 0.055 ng/ul

RT: 14.12 min Scan# 2463

Delta R.T. -0.01 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

Instrument :

BNA\_N

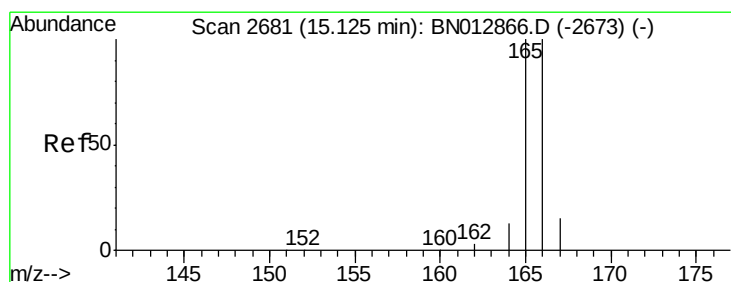
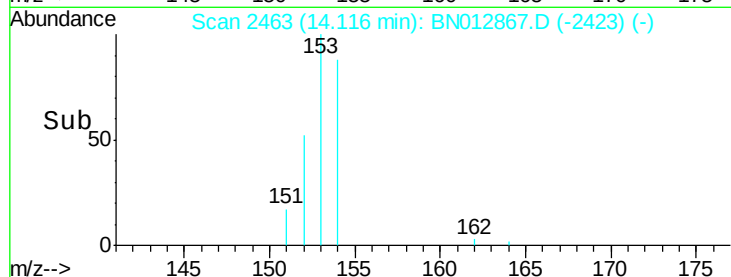
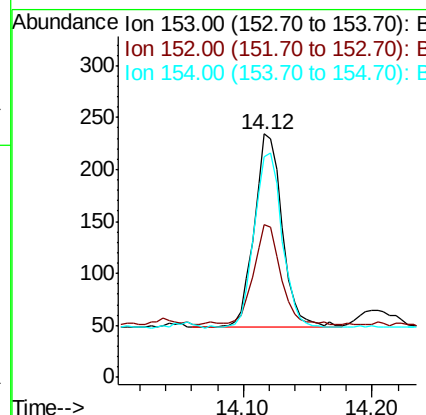
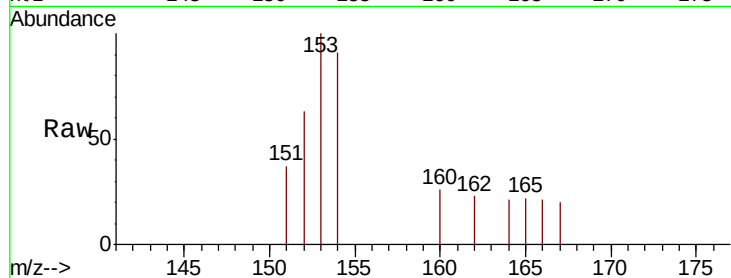
ClientSampleId :

C0B74DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 284   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 62.8  | 40.7  | 61.1# |
| 154       | 90.6  | 70.8  | 106.2 |

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#9

Fluorene

Concen: 0.072 ng/ul

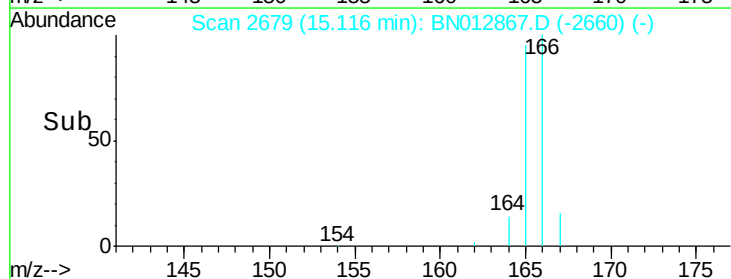
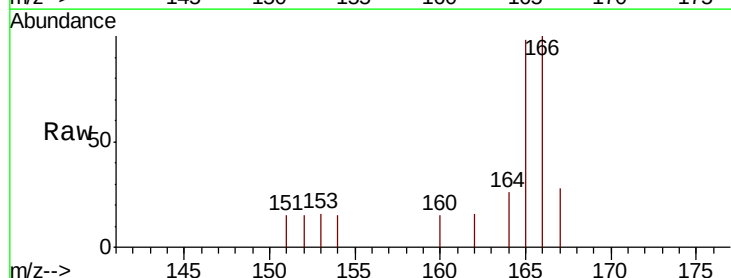
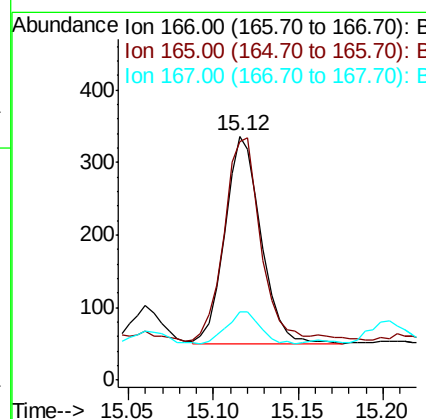
RT: 15.12 min Scan# 2679

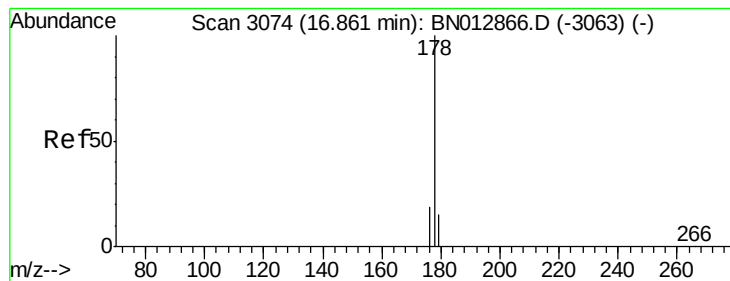
Delta R.T. -0.01 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 425   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.6  | 79.8  | 119.8 |
| 167       | 28.3  | 13.8  | 20.8# |





#12

Phenanthrene

Concen: 1.475 ng/ul

RT: 16.86 min Scan# 3073

Delta R.T. -0.01 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

Instrument :

BNA\_N

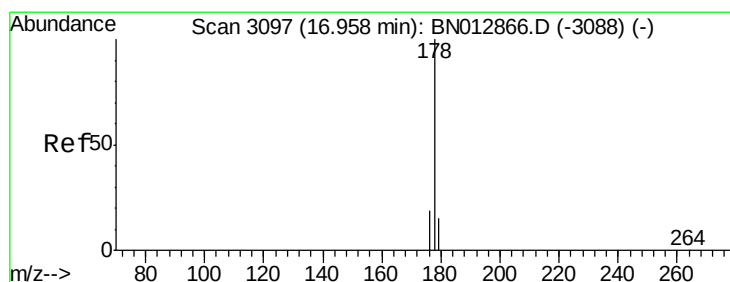
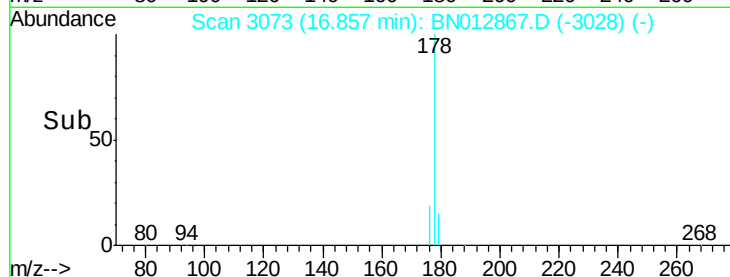
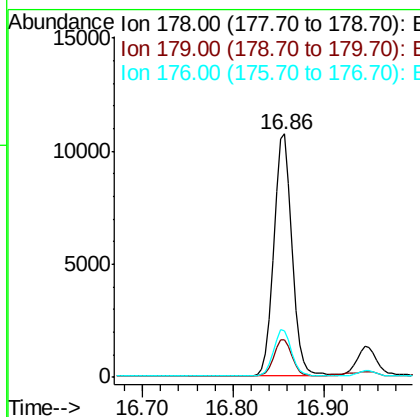
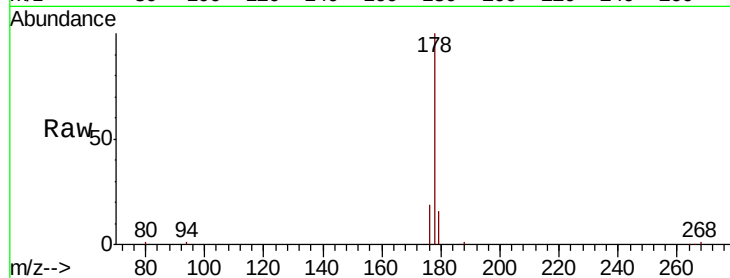
ClientSampleId :

C0B74DL

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 14905     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.6  | 13.6 20.4 |
| 176         | 18.9  | 16.4 24.6 |

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#13

Anthracene

Concen: 0.219 ng/ul

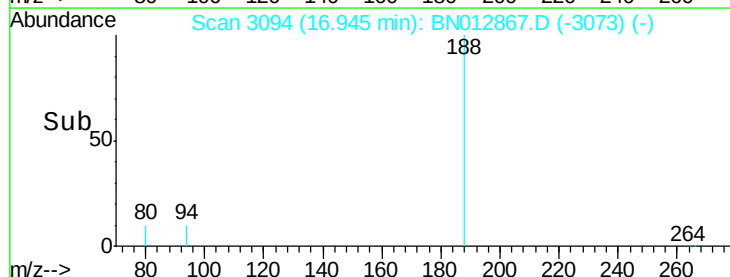
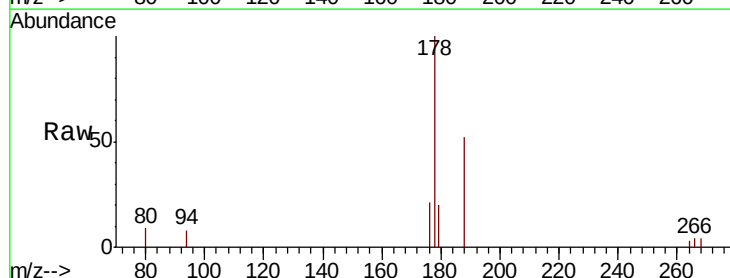
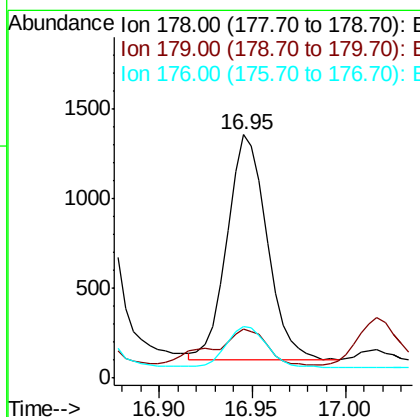
RT: 16.95 min Scan# 3094

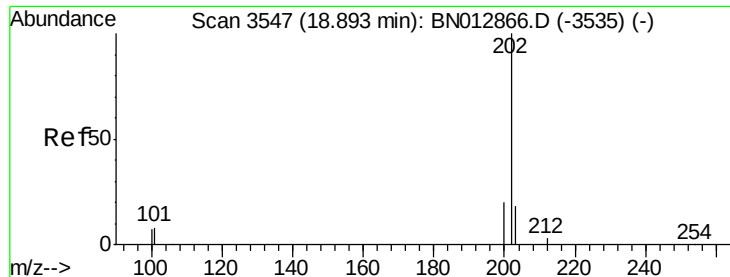
Delta R.T. -0.01 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 1881      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 19.9  | 14.6 21.8 |
| 176         | 21.3  | 17.1 25.7 |





#15

Fluoranthene

Concen: 3.514 ng/ul

RT: 18.89 min Scan# 3546

Delta R.T. -0.00 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

Instrument :

BNA\_N

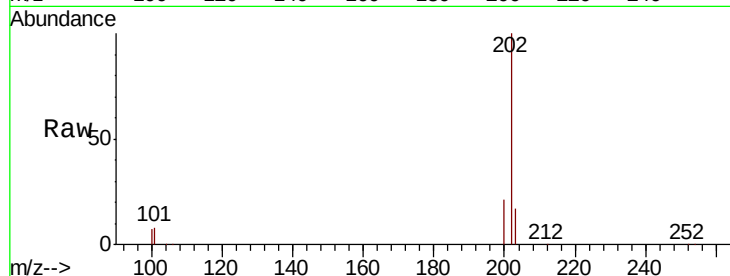
ClientSampleId :

C0B74DL

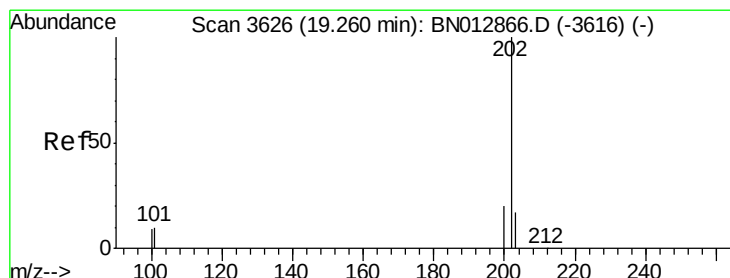
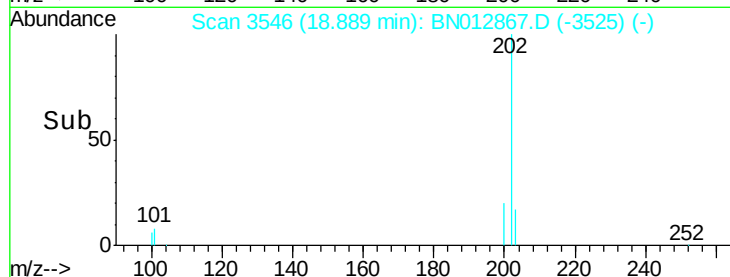
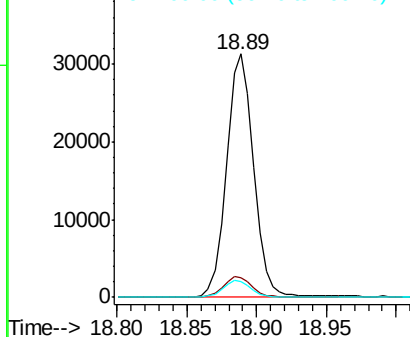
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 42193 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.3   | 0.0   | 30.6  |
| 100       | 6.6   | 0.0   | 28.7  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



#17

Pyrene

Concen: 2.598 ng/ul

RT: 19.26 min Scan# 3625

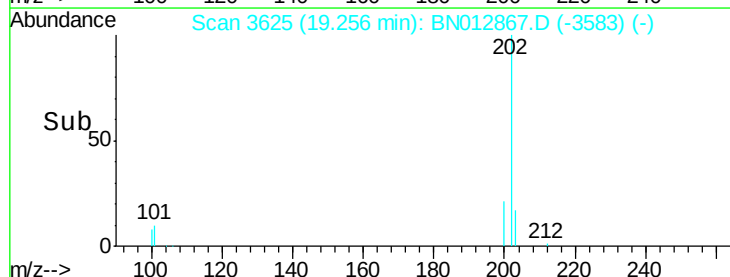
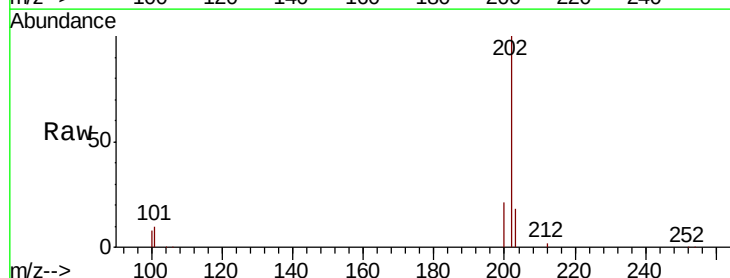
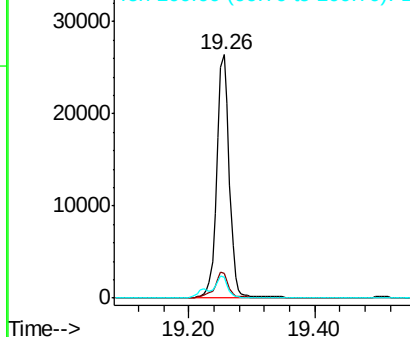
Delta R.T. -0.00 min

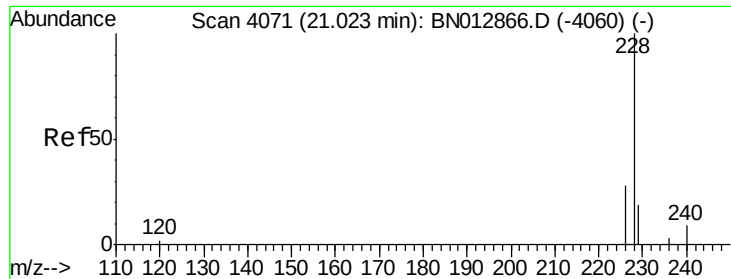
Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 36042 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.0  | 9.1   | 13.7  |
| 100       | 8.3   | 7.5   | 11.3  |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B





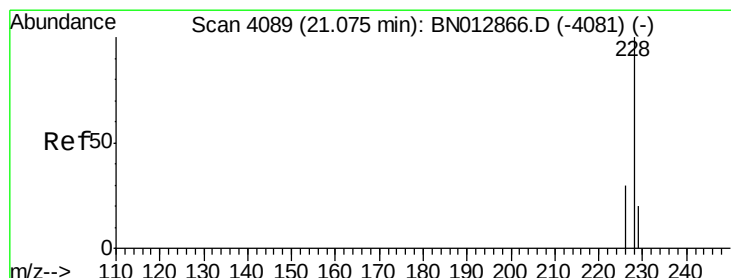
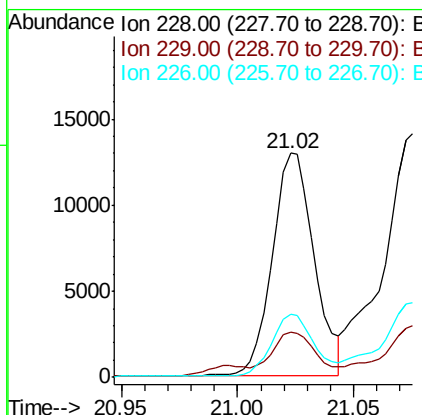
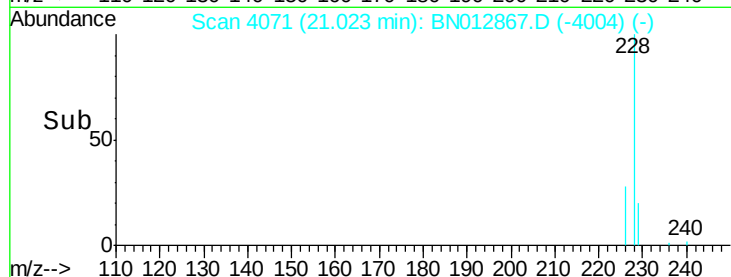
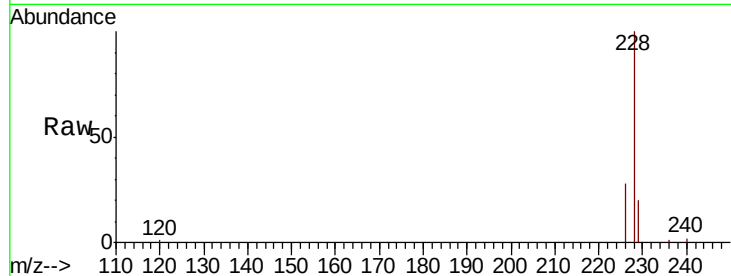
#18  
Benzo(a)anthracene  
Concen: 1.330 ng/ul  
RT: 21.02 min Scan# 4071  
Delta R.T. -0.00 min  
Lab File: BN012867.D  
Acq: 04 Dec 2020 08:53

Instrument :  
BNA\_N  
ClientSampleId :  
C0B74DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.3  | 16.3  | 24.5  |
| 226     | 28.2  | 23.4  | 35.2  |

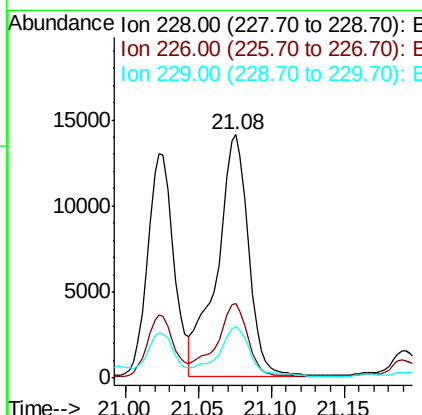
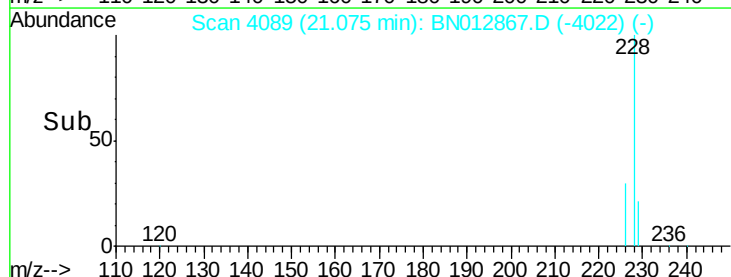
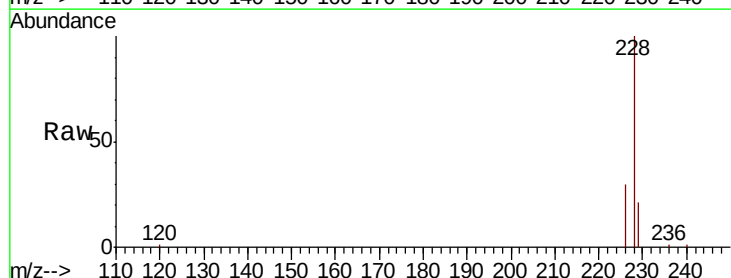
Manual Integrations  
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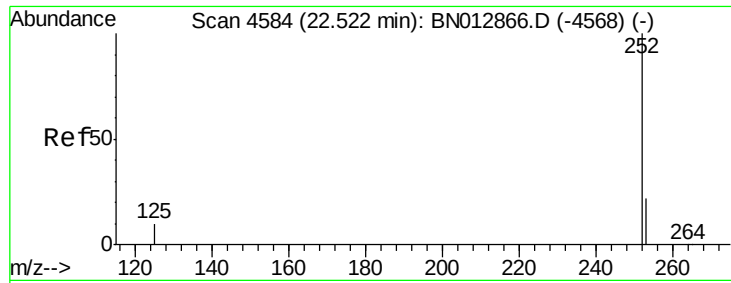
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12/7/2020 8:51:59 AM



#19  
Chrysene  
Concen: 1.578 ng/ul  
RT: 21.08 min Scan# 4089  
Delta R.T. -0.00 min  
Lab File: BN012867.D  
Acq: 04 Dec 2020 08:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 25.0  | 37.6  |
| 229     | 21.4  | 16.4  | 24.6  |





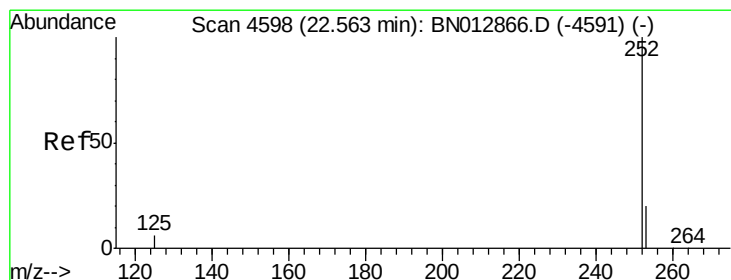
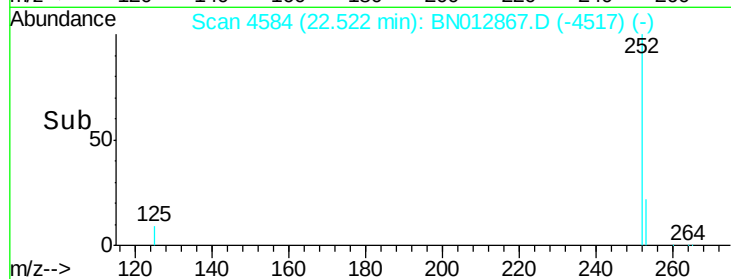
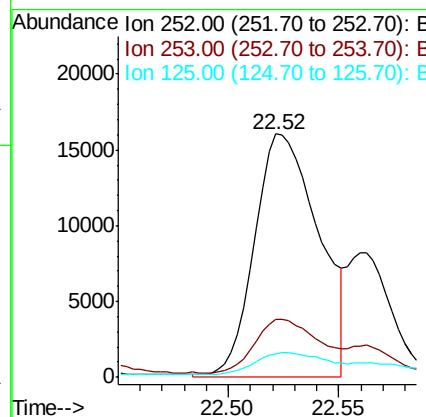
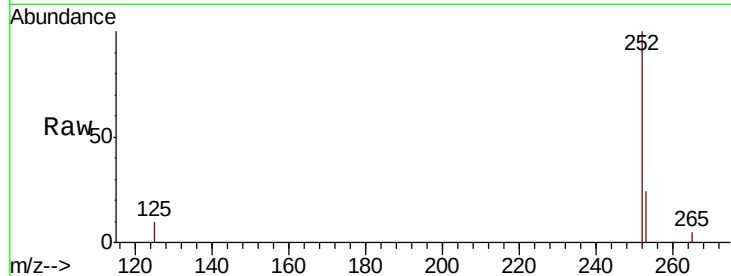
#21  
Benzo(b)fluoranthene  
Concen: 2.399 ng/ul m  
RT: 22.52 min Scan# 4584  
Delta R.T. -0.00 min  
Lab File: BN012867.D  
Acq: 04 Dec 2020 08:53

Instrument :  
BNA\_N  
ClientSampleId :  
C0B74DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 0.0   | 59.6  |
| 125     | 9.8   | 0.0   | 26.0  |

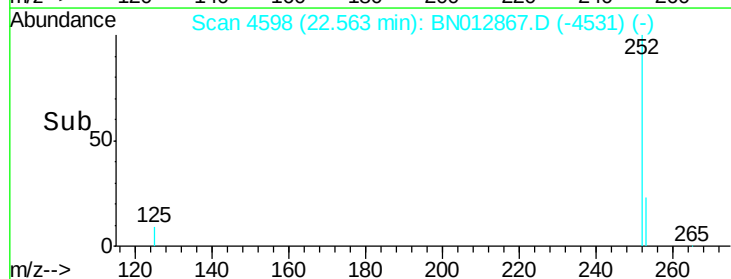
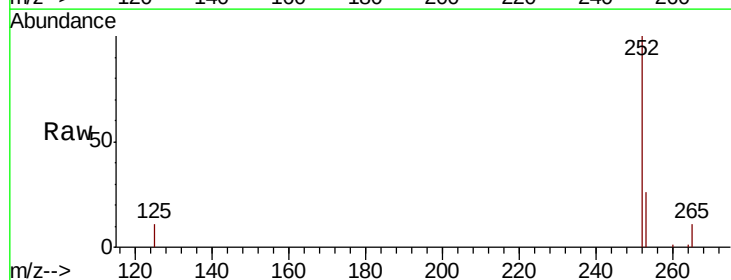
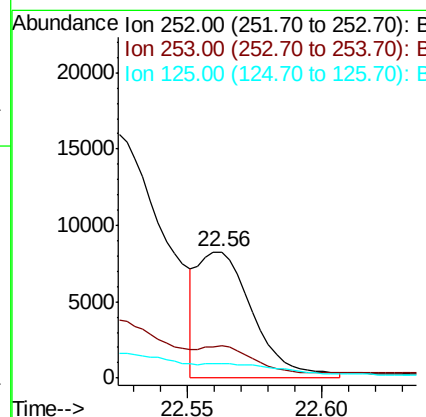
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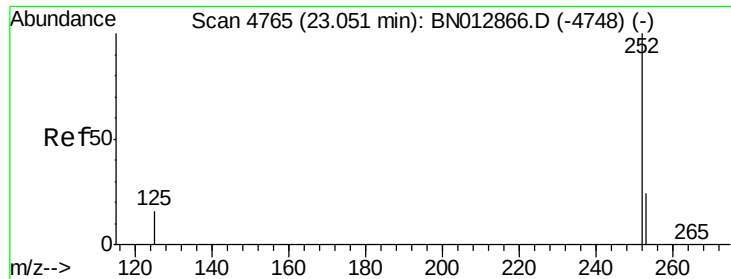


#22  
Benzo(k)fluoranthene  
Concen: 0.795 ng/ul m  
RT: 22.56 min Scan# 4598  
Delta R.T. -0.00 min  
Lab File: BN012867.D  
Acq: 04 Dec 2020 08:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.0  | 23.4  | 35.2  |
| 125     | 11.4  | 11.1  | 16.7  |







#23

Benzo(a)pyrene

Concen: 1.607 ng/ul m

RT: 23.05 min Scan# 4765

Delta R.T. -0.01 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

Instrument :

BNA\_N

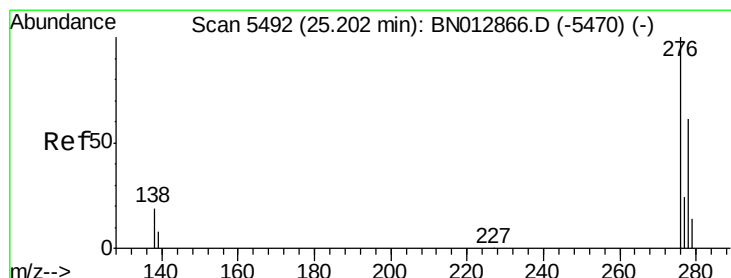
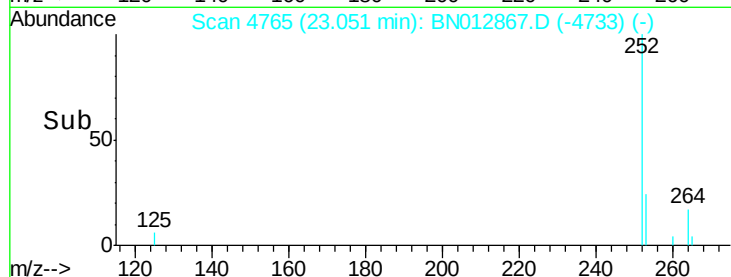
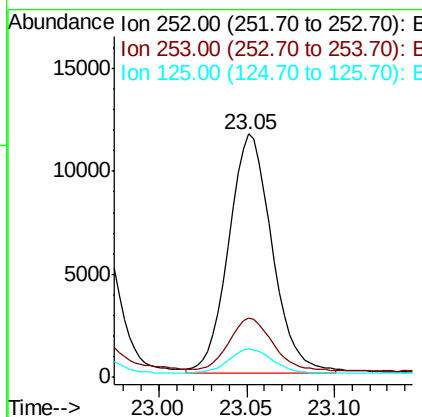
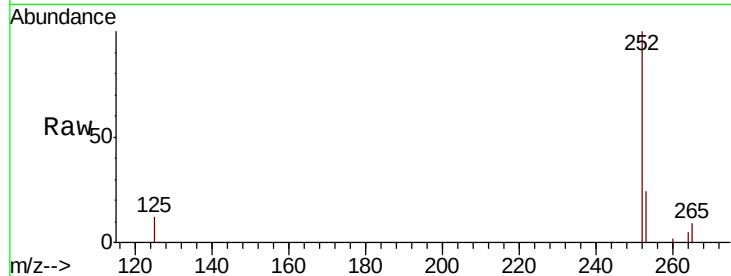
ClientSampleId :

C0B74DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 20084 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 26.5  | 39.7# |
| 125       | 11.5  | 14.2  | 21.2# |

Manual Integrations  
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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.980 ng/ul

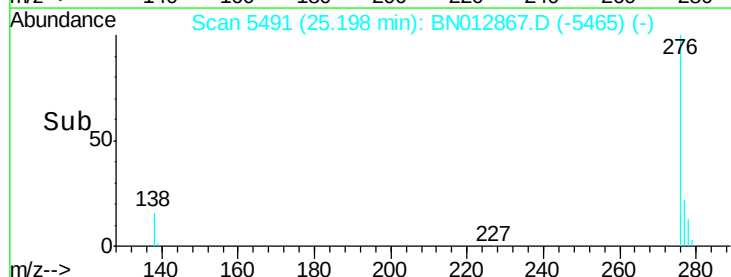
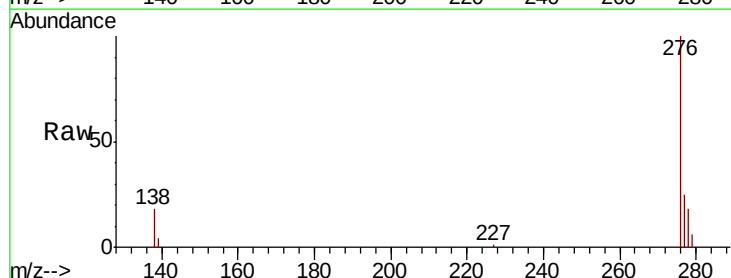
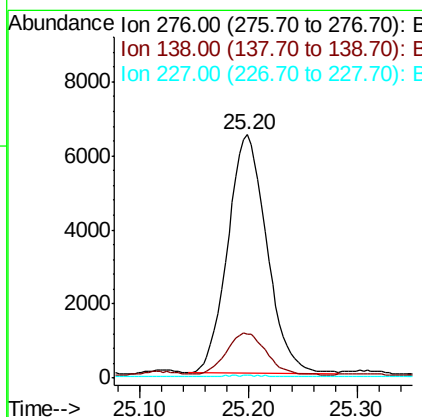
RT: 25.20 min Scan# 5491

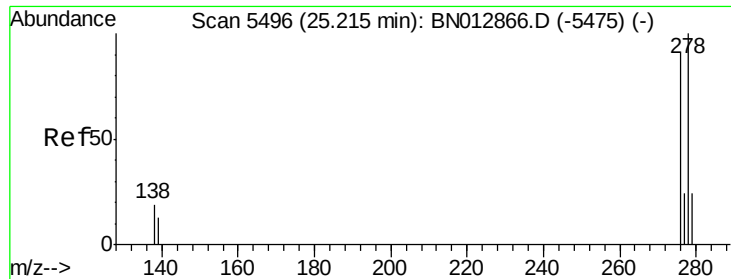
Delta R.T. -0.01 min

Lab File: BN012867.D

Acq: 04 Dec 2020 08:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 16092 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 17.9  | 16.2  | 24.2  |
| 227       | 0.2   | 0.0   | 0.0#  |





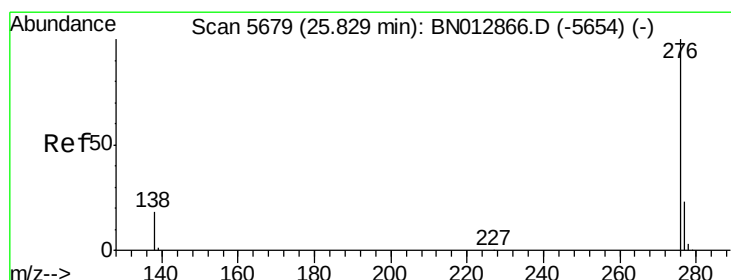
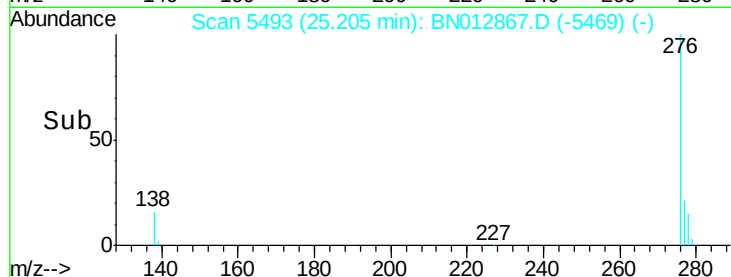
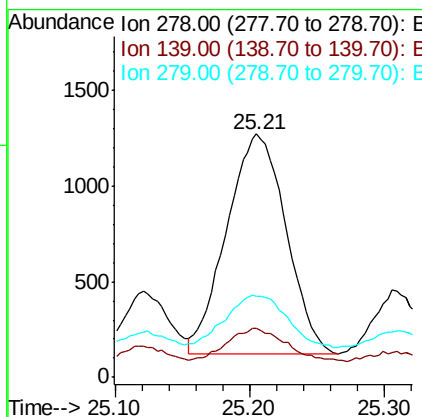
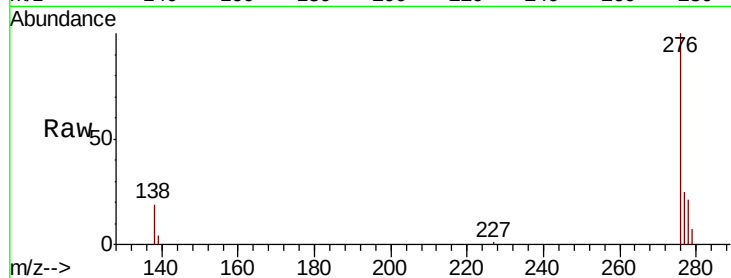
#25  
Dibenzo(a,h)anthracene  
Concen: 0.271 ng/ul  
RT: 25.21 min Scan# 5493  
Delta R.T. -0.02 min  
Lab File: BN012867.D  
Acq: 04 Dec 2020 08:53

Instrument :  
BNA\_N  
ClientSampleId :  
C0B74DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.0  | 14.5  | 21.7  |
| 279     | 33.5  | 26.3  | 39.5  |

Manual Integrations  
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12/7/2020 8:51:59 AM



#26  
Benzo(g,h,i)perylene  
Concen: 1.028 ng/ul  
RT: 25.83 min Scan# 5679  
Delta R.T. -0.01 min  
Lab File: BN012867.D  
Acq: 04 Dec 2020 08:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.2  | 16.3  | 24.5  |
| 277     | 25.3  | 21.8  | 32.6  |

