

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120320\  
 Data File : BN012865.D  
 Acq On : 04 Dec 2020 02:08  
 Operator : CG/JU  
 Sample : L4865-07  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B91

Manual Integrations  
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mohammad  
 12/7/2020 8:51:54 AM

Quant Time: Dec 04 02:41:05 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   | 7.40  | 152  | 612      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.16 | 136  | 2372     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.06 | 164  | 1362     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.82 | 188  | 2891     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.04 | 240  | 2482     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.14 | 264  | 2641     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.78 | 152  | 948      | 0.27   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.86 | 212  | 2365     | 0.30   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.21 | 128  | 310      | 0.045  | ng/ul# | 71       |
| 5) 2-Methylnaphthalene      | 11.85 | 142  | 227      | 0.050  | ng/ul  | 94       |
| 7) Acenaphthylene           | 13.78 | 152  | 292      | 0.045  | ng/ul# | 66       |
| 12) Phenanthrene            | 16.86 | 178  | 3705     | 0.382  | ng/ul  | 99       |
| 13) Anthracene              | 16.95 | 178  | 623      | 0.076  | ng/ul# | 86       |
| 15) Fluoranthene            | 18.89 | 202  | 16391    | 1.423  | ng/ul  | 96       |
| 17) Pyrene                  | 19.26 | 202  | 15626    | 1.333  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.02 | 228  | 7773     | 0.757  | ng/ul  | 99       |
| 19) Chrysene                | 21.07 | 228  | 10231    | 0.902  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.52 | 252  | 15456m   | 1.265  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.56 | 252  | 5724m    | 0.424  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.05 | 252  | 10187    | 0.899  | ng/ul# | 89       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.19 | 276  | 8446     | 0.567  | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 25.20 | 278  | 1752     | 0.149  | ng/ul# | 84       |
| 26) Benzo(g,h,i)perylene    | 25.83 | 276  | 7820     | 0.581  | ng/ul  | 98       |

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

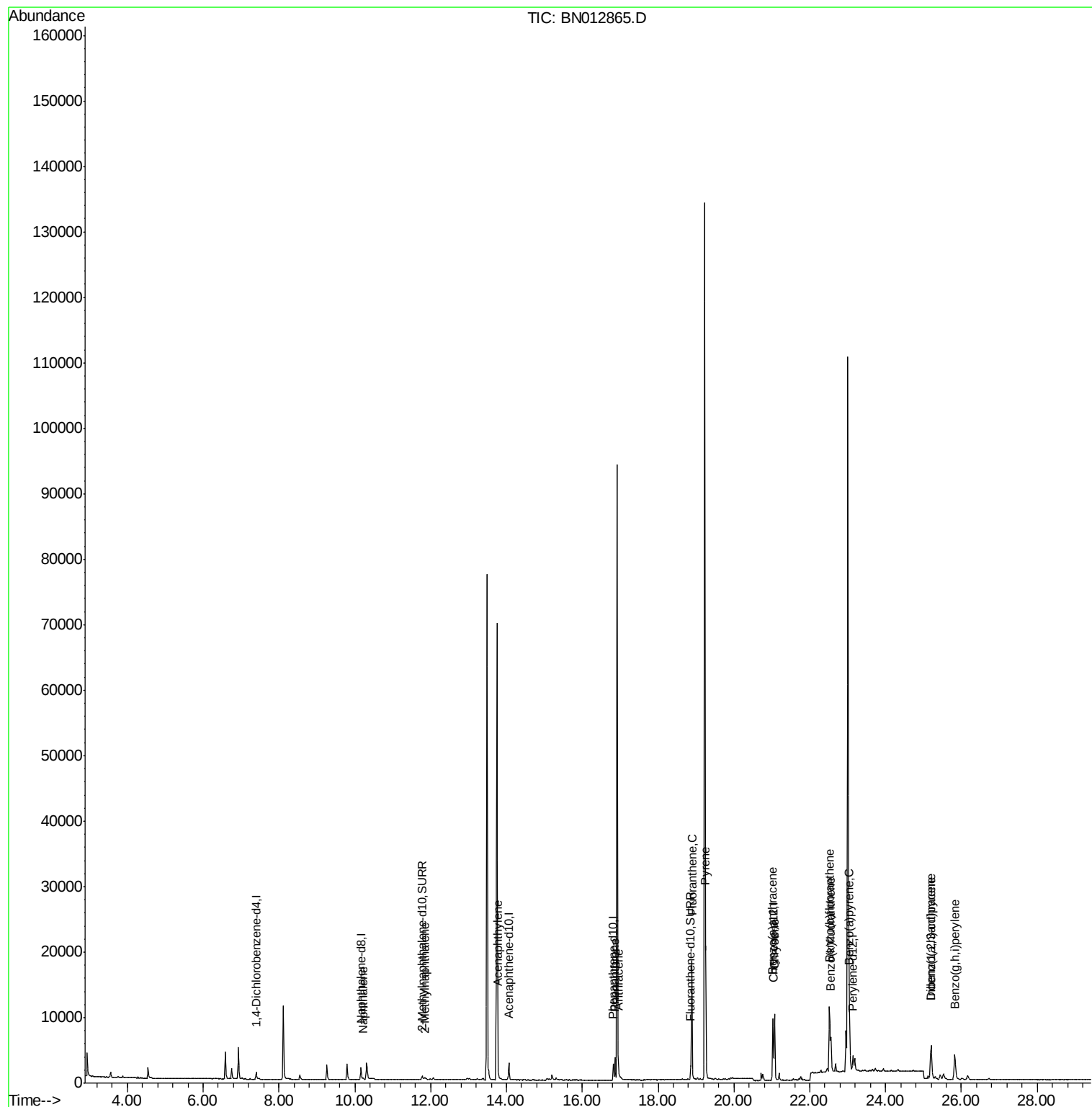
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120320\  
Data File : BN012865.D  
Acq On : 04 Dec 2020 02:08  
Operator : CG/JU  
Sample : L4865-07  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

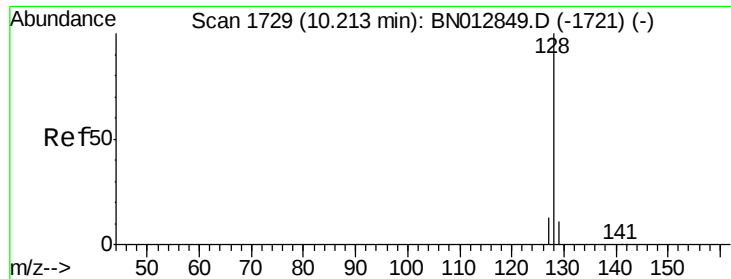
Instrument :  
BNA\_N  
ClientSampleId :  
C0B91

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Quant Time: Dec 04 02:41:05 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





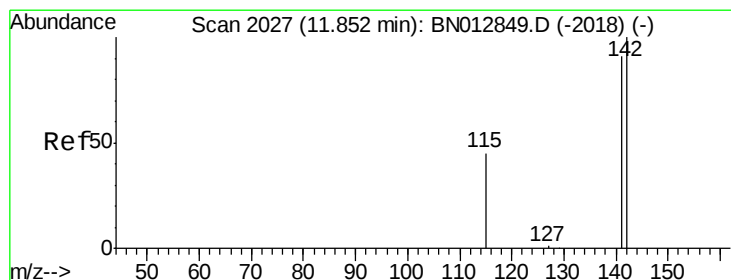
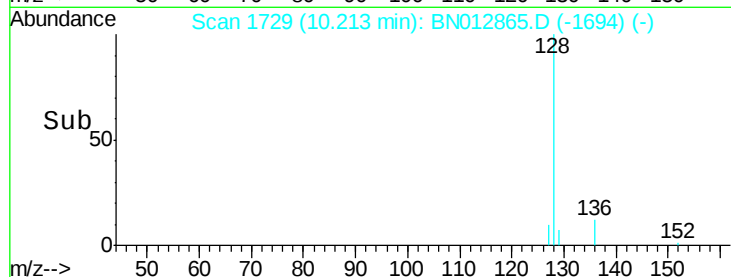
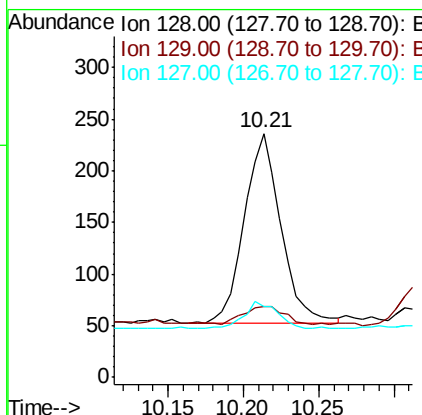
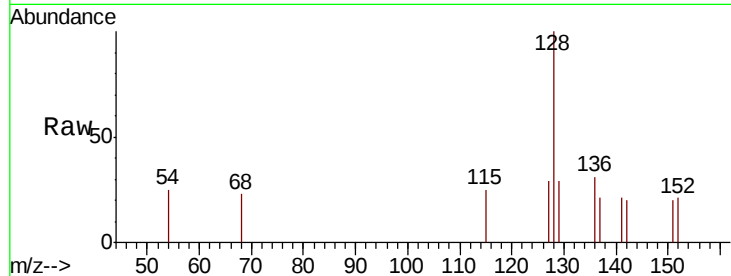
#3  
Naphthalene  
Concen: 0.045 ng/ul  
RT: 10.21 min Scan# 1729  
Delta R.T. -0.01 min  
Lab File: BN012865.D  
Acq: 04 Dec 2020 02:08

Instrument :  
BNA\_N  
ClientSampleId :  
C0B91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 29.2  | 12.3  | 18.5# |
| 127     | 28.8  | 14.2  | 21.4# |

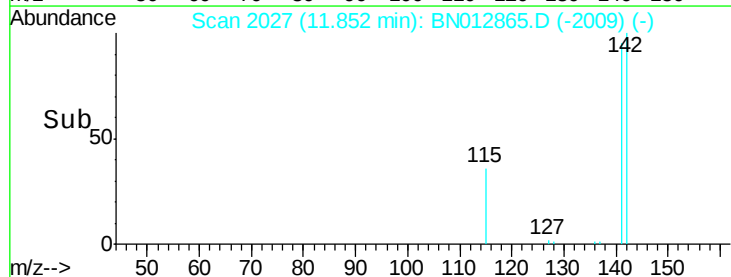
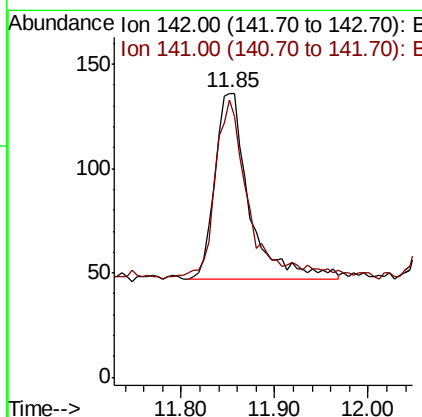
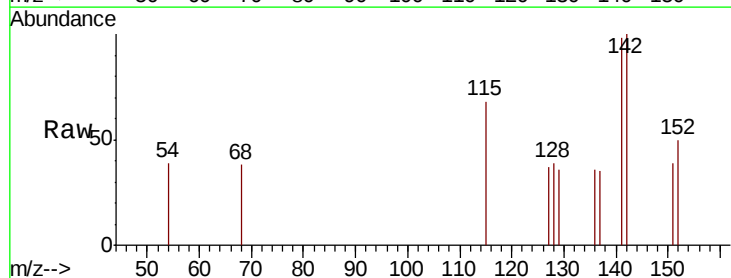
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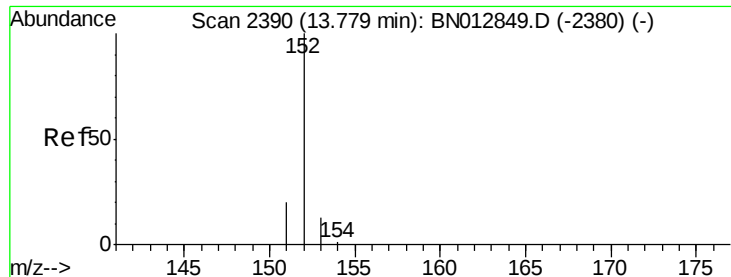
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#5  
2-Methylnaphthalene  
Concen: 0.050 ng/ul  
RT: 11.85 min Scan# 2027  
Delta R.T. -0.00 min  
Lab File: BN012865.D  
Acq: 04 Dec 2020 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 96.9  | 73.0  | 109.6 |





#7

Acenaphthylene

Concen: 0.045 ng/ul

RT: 13.78 min Scan# 2390

Delta R.T. -0.00 min

Lab File: BN012865.D

Acq: 04 Dec 2020 02:08

Instrument :

BNA\_N

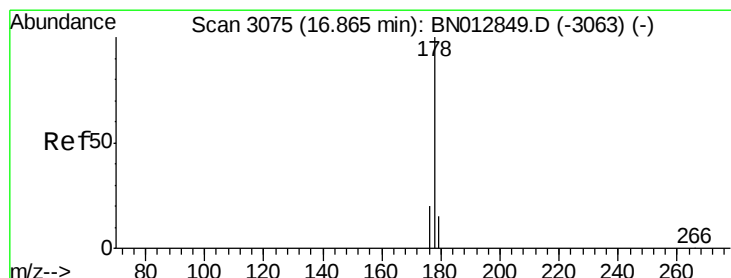
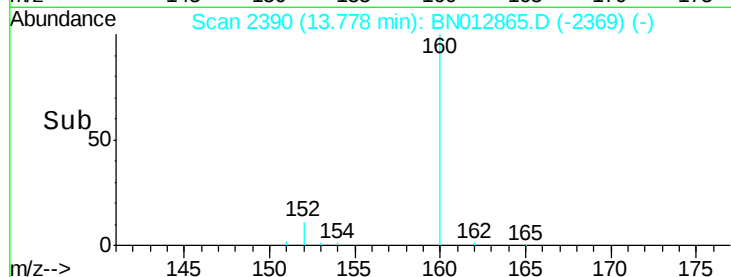
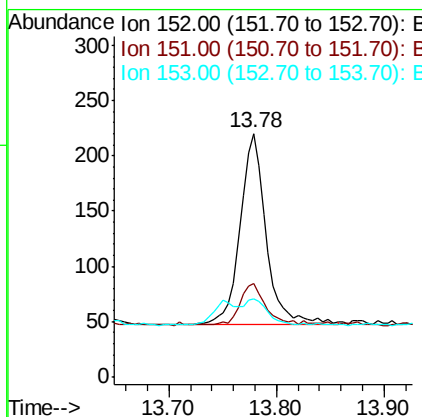
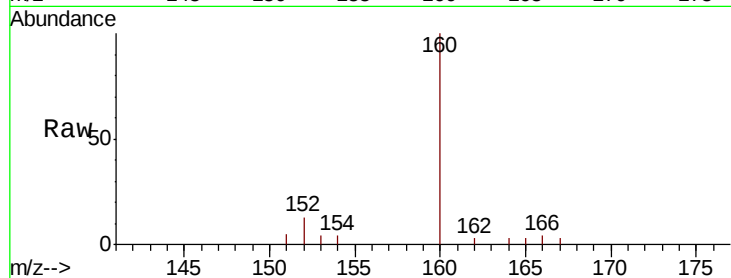
ClientSampleId :

C0B91

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 292   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 38.2  | 18.2  | 27.4# |
| 153       | 32.3  | 13.1  | 19.7# |

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#12

Phenanthrene

Concen: 0.382 ng/ul

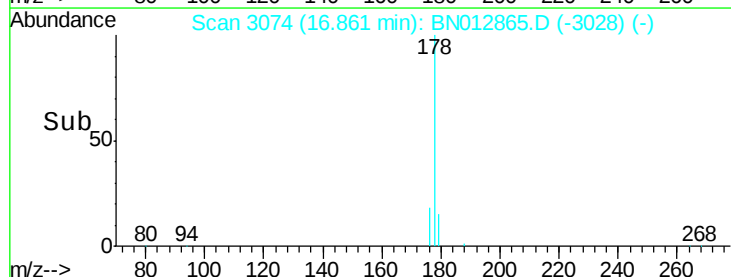
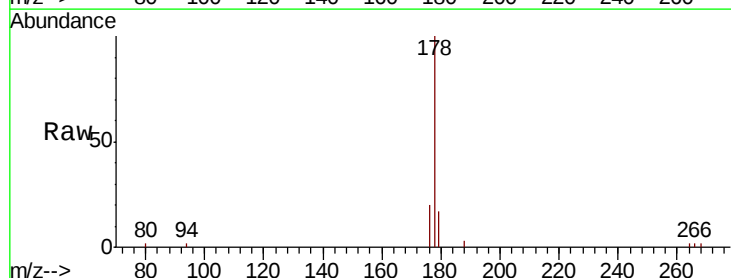
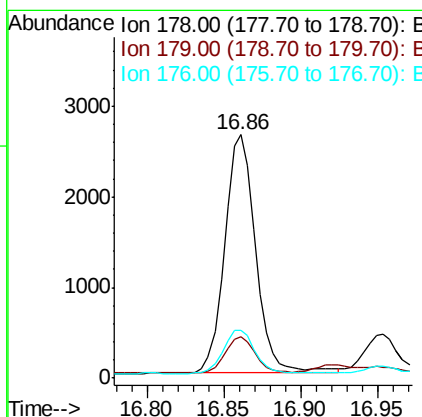
RT: 16.86 min Scan# 3074

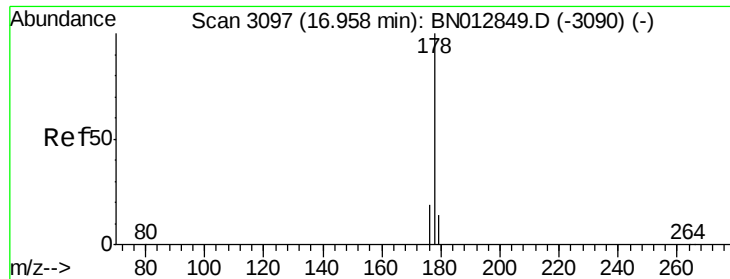
Delta R.T. -0.00 min

Lab File: BN012865.D

Acq: 04 Dec 2020 02:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 3705 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 17.1  | 13.6  | 20.4 |
| 176       | 19.8  | 16.4  | 24.6 |





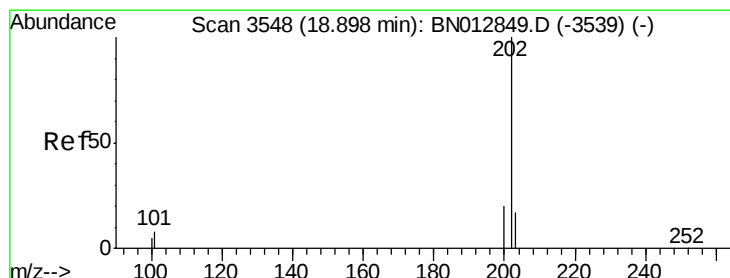
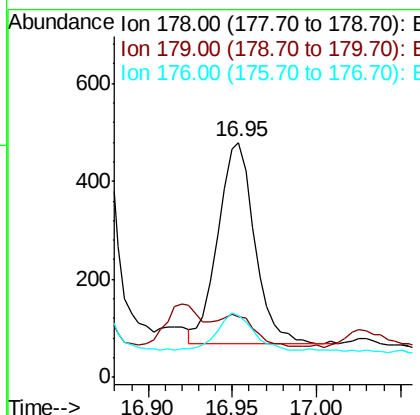
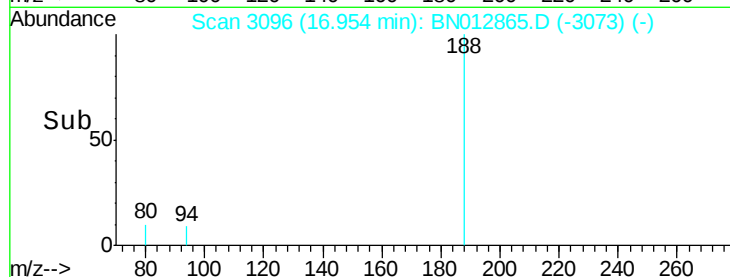
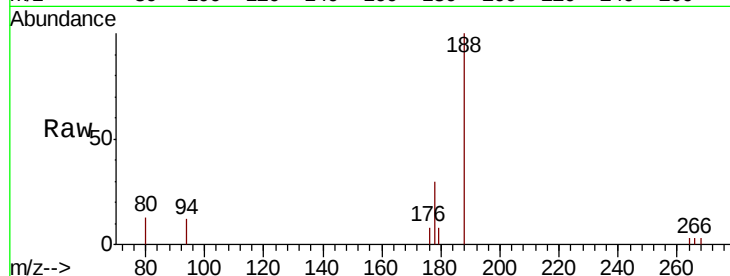
#13  
 Anthracene  
 Concen: 0.076 ng/ul  
 RT: 16.95 min Scan# 3096  
 Delta R.T. -0.00 min  
 Lab File: BN012865.D  
 Acq: 04 Dec 2020 02:08

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 25.8  | 14.6  | 21.8# |
| 176     | 26.5  | 17.1  | 25.7# |

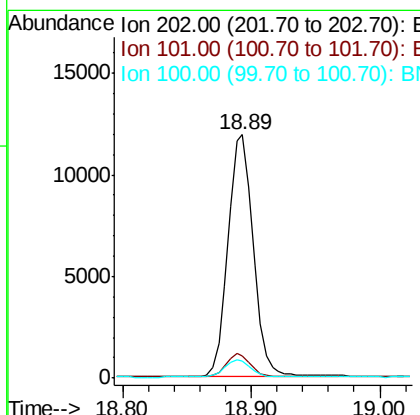
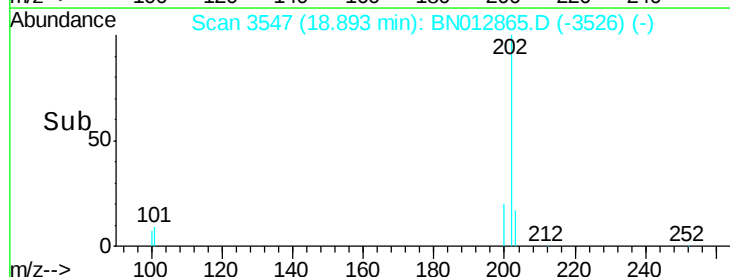
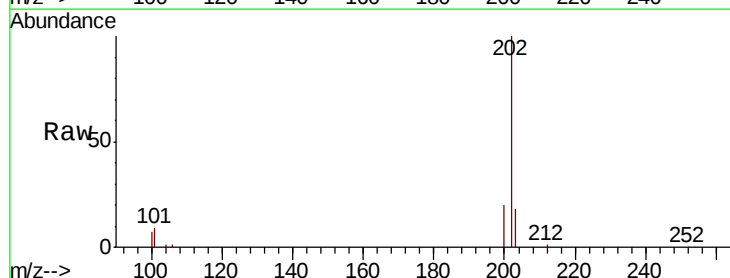
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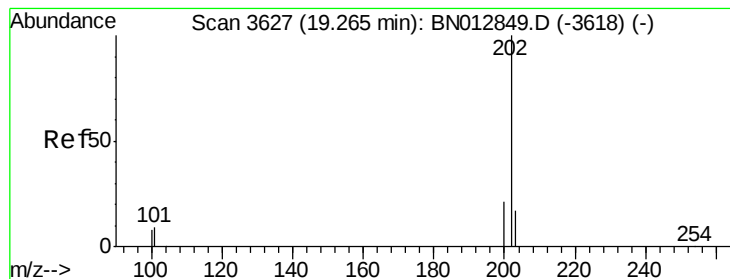
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#15  
 Fluoranthene  
 Concen: 1.423 ng/ul  
 RT: 18.89 min Scan# 3547  
 Delta R.T. -0.00 min  
 Lab File: BN012865.D  
 Acq: 04 Dec 2020 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.0   | 0.0   | 30.6  |
| 100     | 7.1   | 0.0   | 28.7  |





#17

Pvrene

Concen: 1.333 ng/ul

RT: 19.26 min Scan# 3625

Delta R.T. -0.00 min

Lab File: BN012865.D

Acq: 04 Dec 2020 02:08

Instrument :

BNA\_N

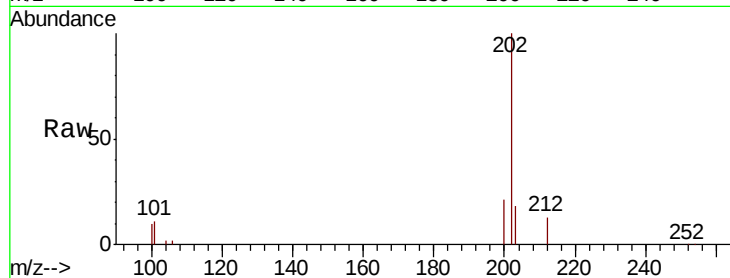
ClientSampleId :

C0B91

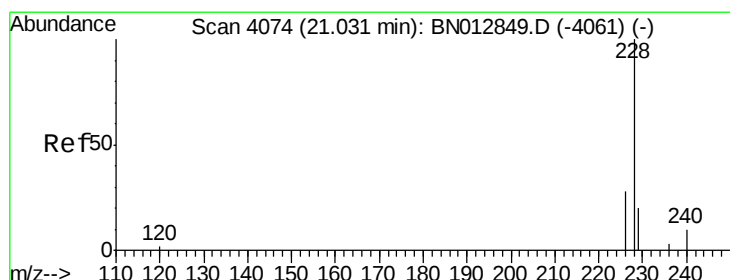
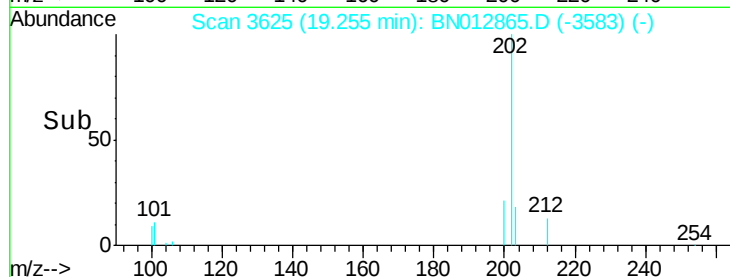
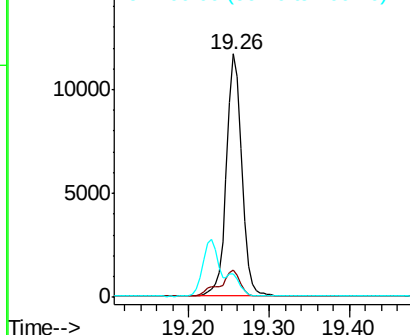
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 15626 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.4  | 9.1   | 13.7  |
| 100       | 9.8   | 7.5   | 11.3  |

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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



#18

Benzo(a)anthracene

Concen: 0.757 ng/ul

RT: 21.02 min Scan# 4071

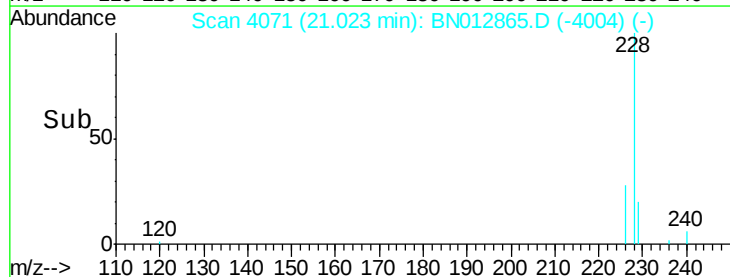
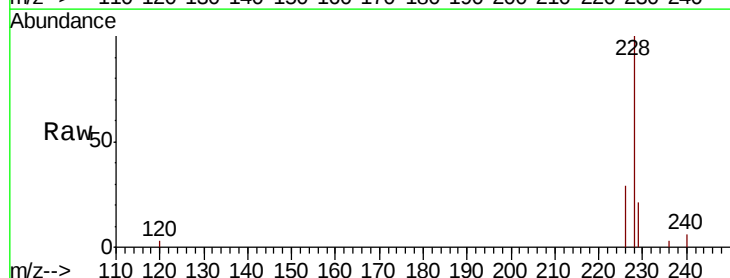
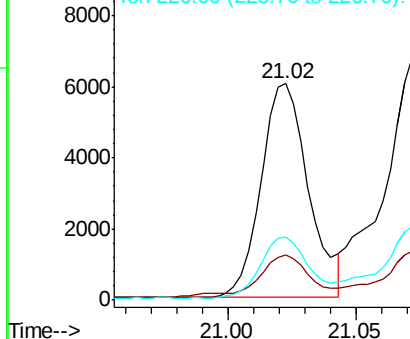
Delta R.T. -0.00 min

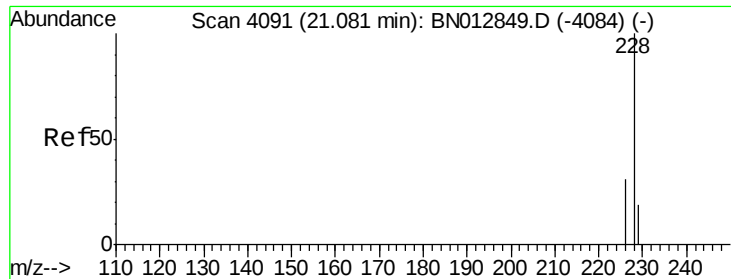
Lab File: BN012865.D

Acq: 04 Dec 2020 02:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 7773 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 20.8  | 16.3  | 24.5 |
| 226       | 29.0  | 23.4  | 35.2 |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.902 ng/ul

RT: 21.07 min Scan# 4088

Delta R.T. -0.01 min

Lab File: BN012865.D

Acq: 04 Dec 2020 02:08

Instrument :

BNA\_N

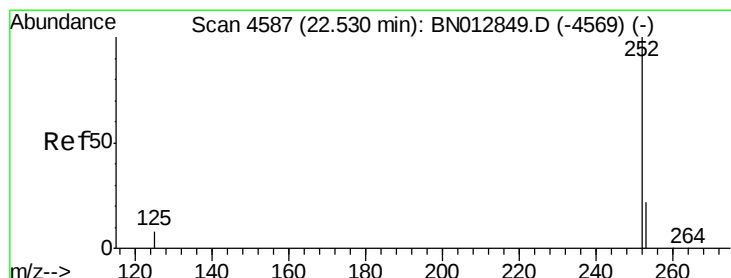
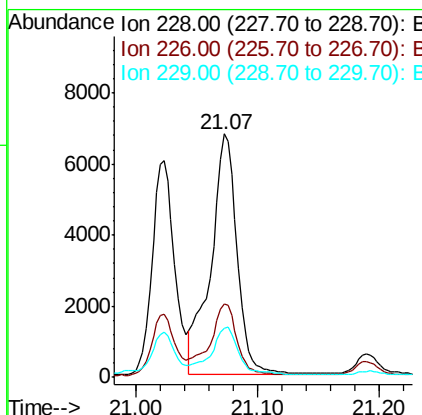
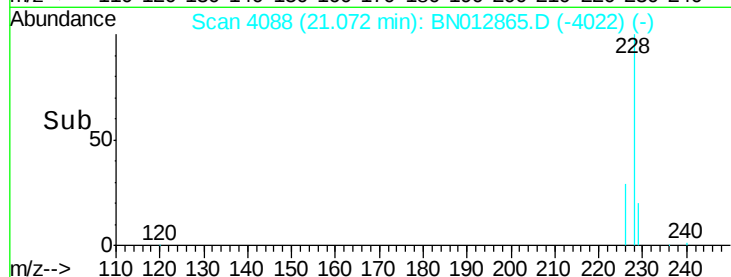
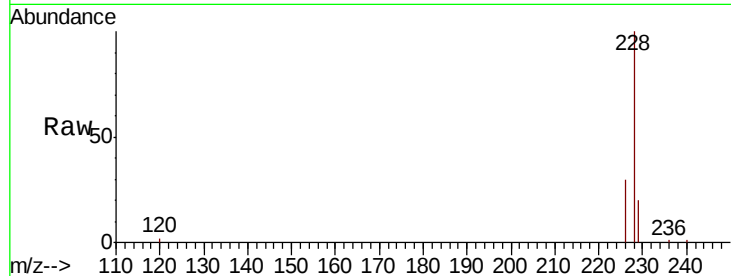
ClientSampleId :

C0B91

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 10231 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 30.1    | 25.0  | 37.6  |
| 229 20.3    | 16.4  | 24.6  |

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#21

Benzo(b)fluoranthene

Concen: 1.265 ng/ul m

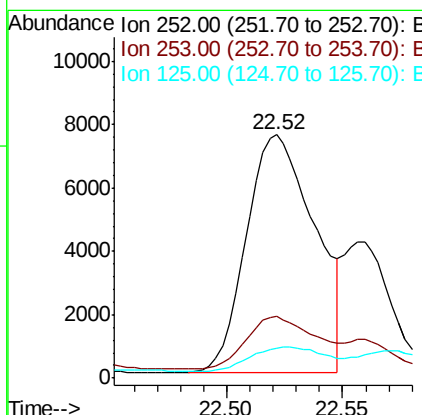
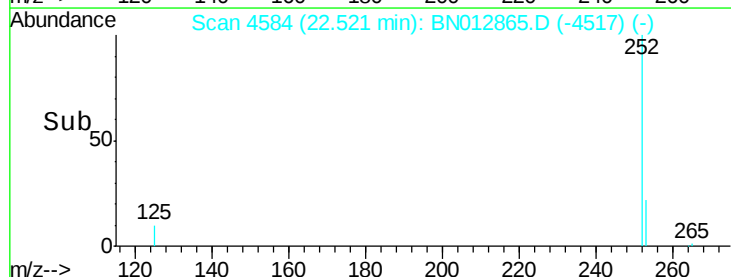
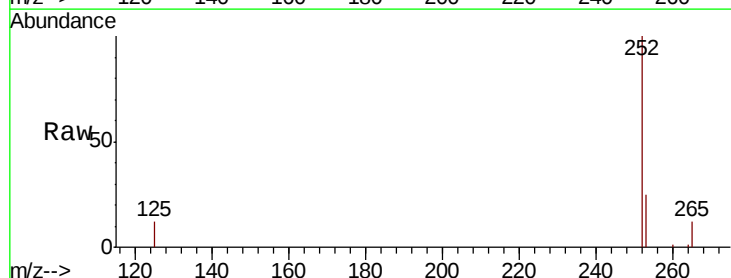
RT: 22.52 min Scan# 4584

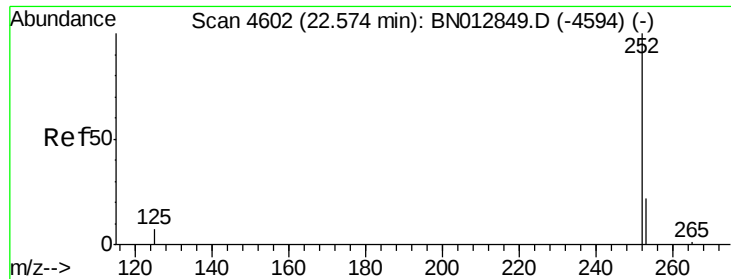
Delta R.T. -0.00 min

Lab File: BN012865.D

Acq: 04 Dec 2020 02:08

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:252 | Resp: | 15456 |
| Ion Ratio   | Lower | Upper |
| 252 100     |       |       |
| 253 25.3    | 0.0   | 59.6  |
| 125 12.4    | 0.0   | 26.0  |





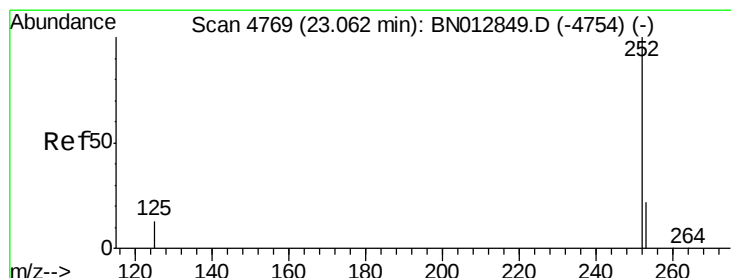
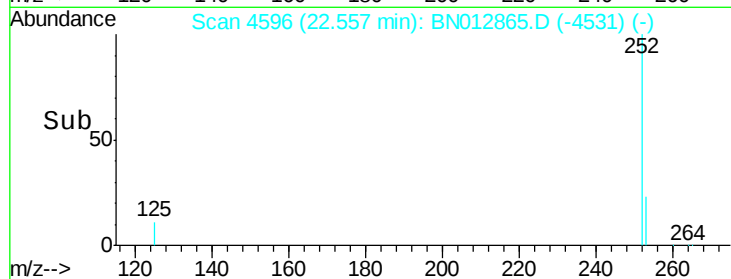
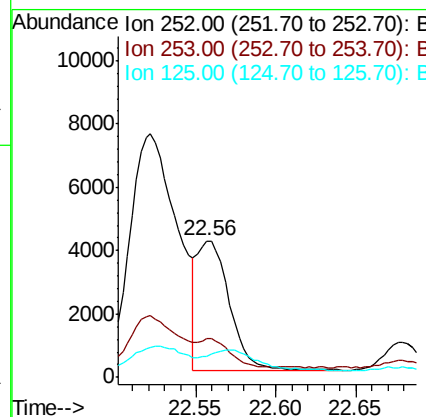
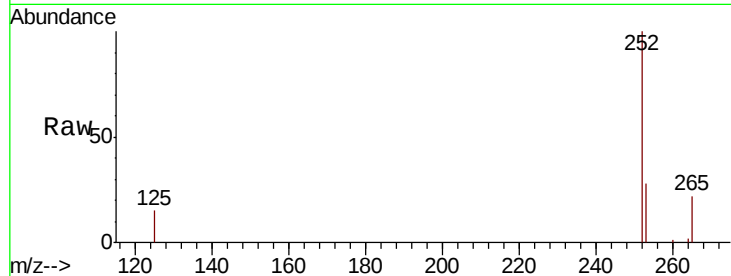
#22  
Benzo(k)fluoranthene  
Concen: 0.424 ng/ul m  
RT: 22.56 min Scan# 4596  
Delta R.T. -0.01 min  
Lab File: BN012865.D  
Acq: 04 Dec 2020 02:08

Instrument :  
BNA\_N  
ClientSampled :  
C0B91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.5  | 23.4  | 35.2  |
| 125     | 15.4  | 11.1  | 16.7  |

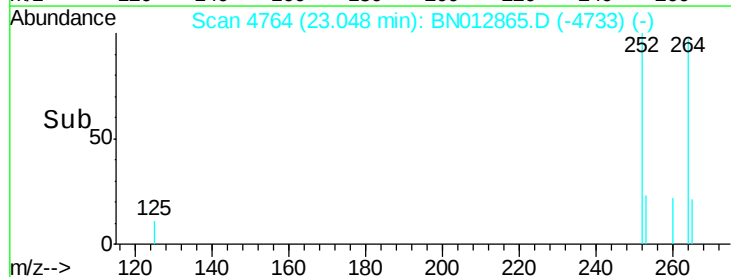
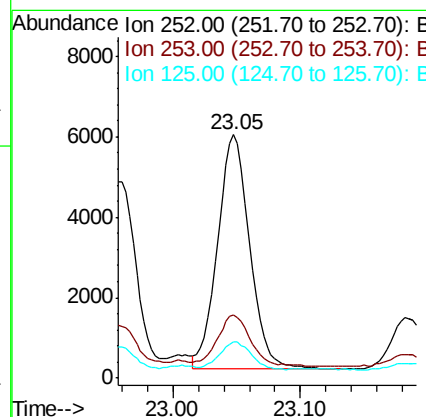
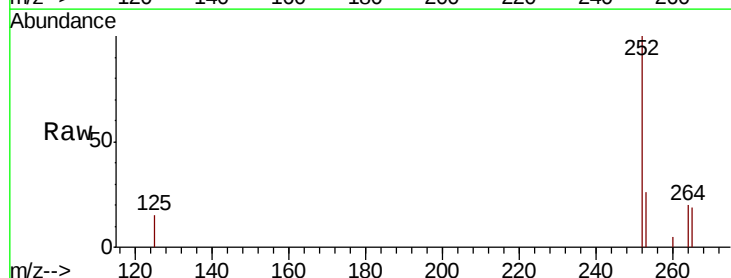
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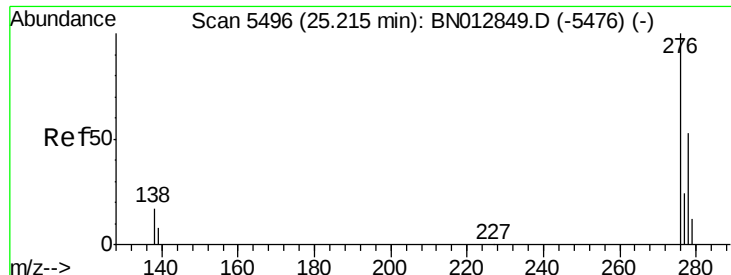
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#23  
Benzo(a)pyrene  
Concen: 0.899 ng/ul  
RT: 23.05 min Scan# 4764  
Delta R.T. -0.01 min  
Lab File: BN012865.D  
Acq: 04 Dec 2020 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.9  | 26.5  | 39.7# |
| 125     | 14.8  | 14.2  | 21.2  |





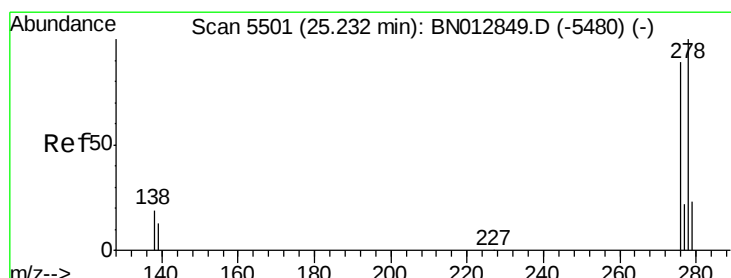
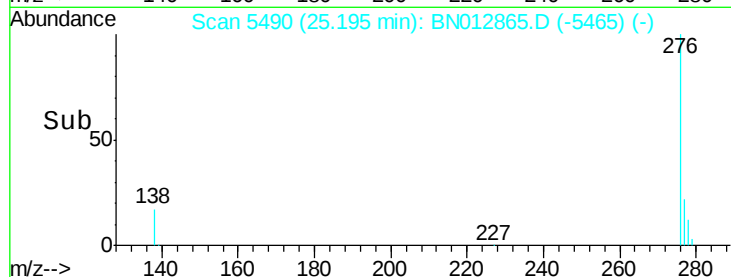
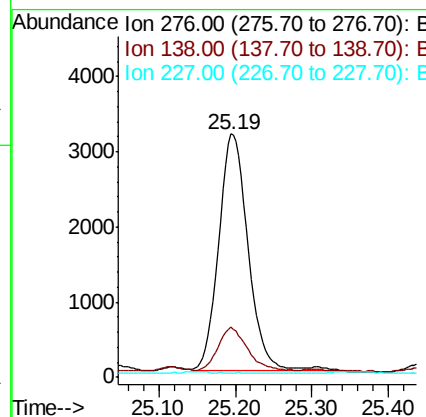
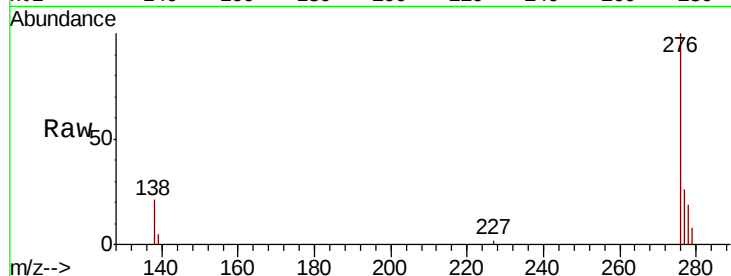
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.567 ng/uL  
 RT: 25.19 min Scan# 5490  
 Delta R.T. -0.02 min  
 Lab File: BN012865.D  
 Acq: 04 Dec 2020 02:08

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.6  | 16.2  | 24.2  |
| 227     | 0.1   | 0.0   | 0.0   |

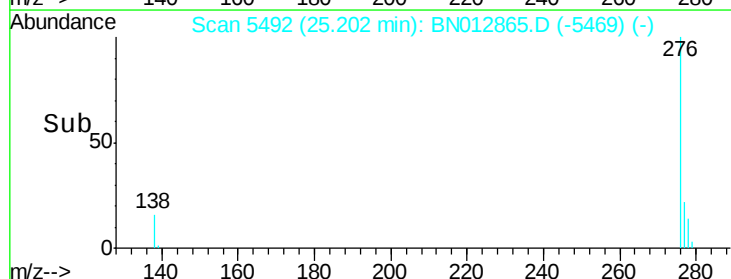
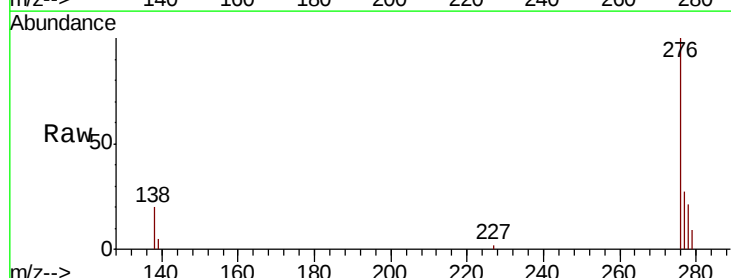
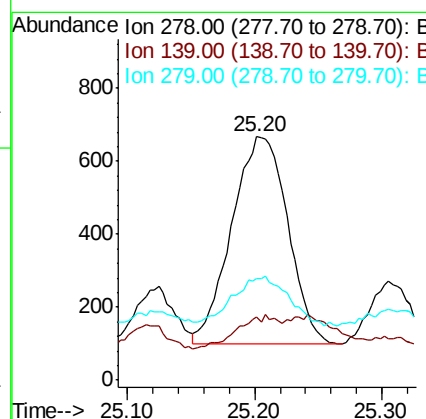
Manual Integrations  
 APPROVED

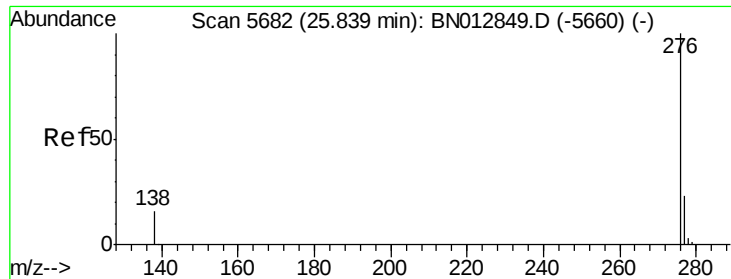
mohammad  
 12/7/2020 8:51:54 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.149 ng/uL  
 RT: 25.20 min Scan# 5492  
 Delta R.T. -0.02 min  
 Lab File: BN012865.D  
 Acq: 04 Dec 2020 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 25.7  | 14.5  | 21.7  |
| 279     | 41.6  | 26.3  | 39.5  |





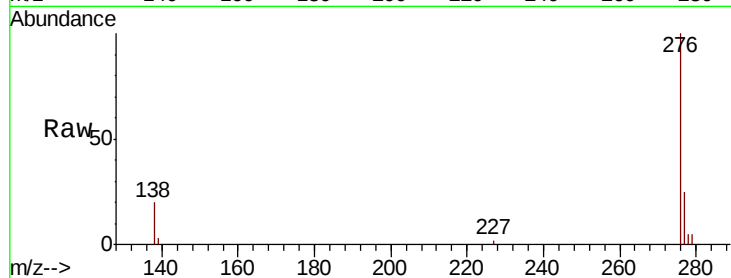
#26  
Benzo(a,h,i)perylene  
Concen: 0.581 ng/ul  
RT: 25.83 min Scan# 5679  
Delta R.T. -0.01 min  
Lab File: BN012865.D  
Acq: 04 Dec 2020 02:08

Instrument :  
BNA\_N  
ClientSampleId :  
C0B91

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 7820 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 20.1  | 16.3  | 24.5 |
| 277       | 25.4  | 21.8  | 32.6 |

Manual Integrations  
APPROVED

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12/7/2020 8:51:54 AM



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

