

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112020\  
 Data File : BN012678.D  
 Acq On : 21 Nov 2020 10:01  
 Operator : CG/JU  
 Sample : L4710-12DL 2X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B32DL

Manual Integrations  
 APPROVED

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 11/24/2020 8:56:40 AM

Quant Time: Nov 23 01:14:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN112020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 23 00:58:43 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.44  | 152  | 1103     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.20 | 136  | 4579     | 0.40  | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.10 | 164  | 2519     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.85 | 188  | 5209     | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.06 | 240  | 4533     | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.18 | 264  | 4657     | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.81 | 152  | 566      | 0.09  | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 18.89 | 212  | 1389     | 0.10  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.25 | 128  | 772      | 0.056 | ng/ul# | 85       |
| 7) Acenaphthylene           | 13.81 | 152  | 290      | 0.024 | ng/ul# | 61       |
| 12) Phenanthrene            | 16.89 | 178  | 4440     | 0.245 | ng/ul  | 99       |
| 13) Anthracene              | 16.98 | 178  | 664      | 0.042 | ng/ul# | 83       |
| 15) Fluoranthene            | 18.92 | 202  | 17598    | 0.841 | ng/ul  | 99       |
| 17) Pyrene                  | 19.28 | 202  | 15961    | 0.787 | ng/ul# | 95       |
| 18) Benzo(a)anthracene      | 21.05 | 228  | 7991     | 0.492 | ng/ul  | 99       |
| 19) Chrysene                | 21.10 | 228  | 11640    | 0.574 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.56 | 252  | 17098m   | 0.798 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.59 | 252  | 5961m    | 0.241 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.09 | 252  | 10299m   | 0.511 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.26 | 276  | 8368     | 0.317 | ng/ul  | 97       |
| 25) Dibenzo(a,h)anthracene  | 25.27 | 278  | 1886     | 0.089 | ng/ul# | 70       |
| 26) Benzo(g,h,i)perylene    | 25.89 | 276  | 8065     | 0.340 | ng/ul  | 97       |

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

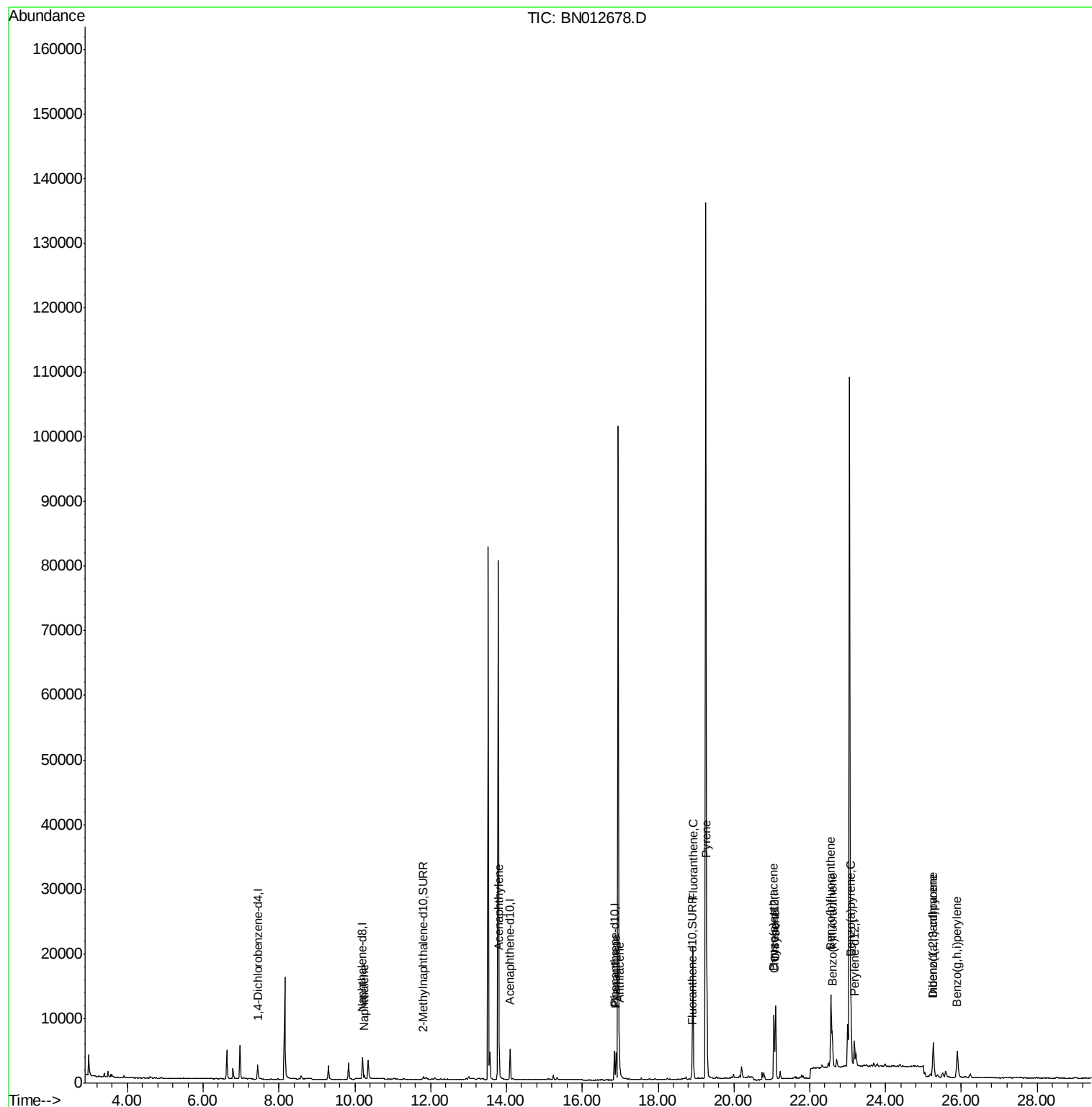
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112020\  
Data File : BN012678.D  
Acq On : 21 Nov 2020 10:01  
Operator : CG/JU  
Sample : L4710-12DL 2X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

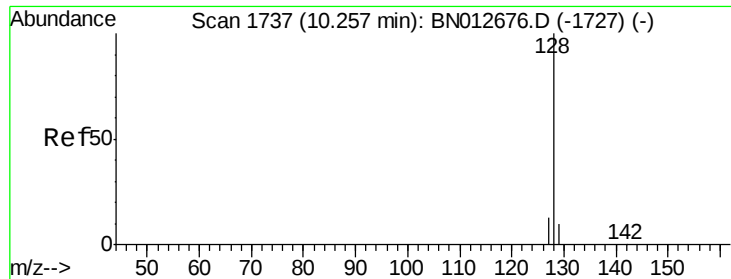
Instrument :  
BNA\_N  
ClientSampleId :  
C0B32DL

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Quant Time: Nov 23 01:14:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN112020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 23 00:58:43 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.056 ng/ul

RT: 10.25 min Scan# 1736

Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

Instrument :

BNA\_N

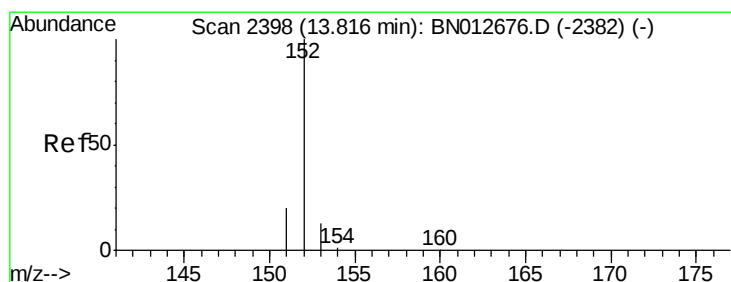
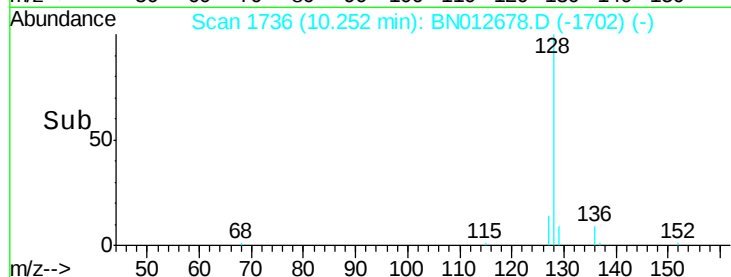
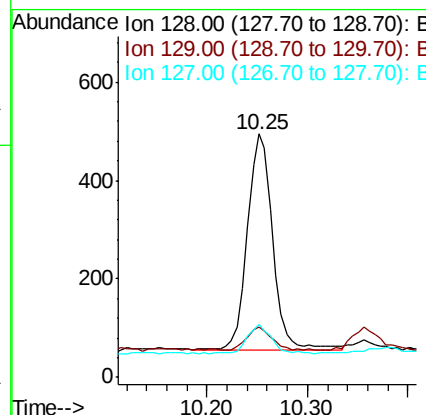
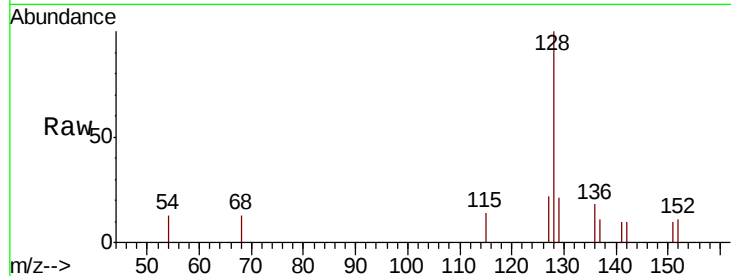
ClientSampleId :

C0B32DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 772   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 20.6  | 11.2  | 16.8# |
| 127      | 21.8  | 12.5  | 18.7# |

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#7

Acenaphthylene

Concen: 0.024 ng/ul

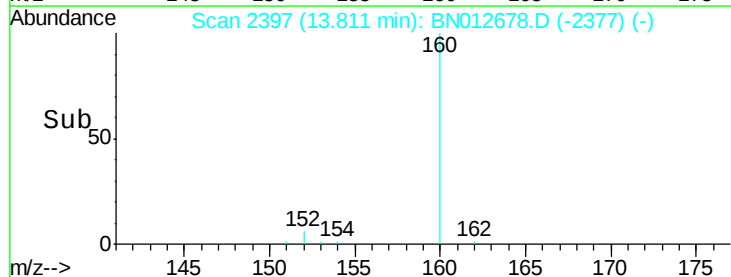
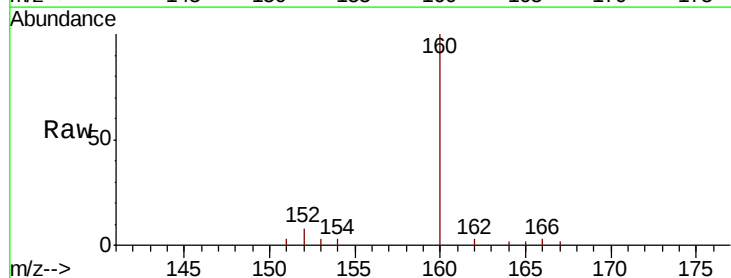
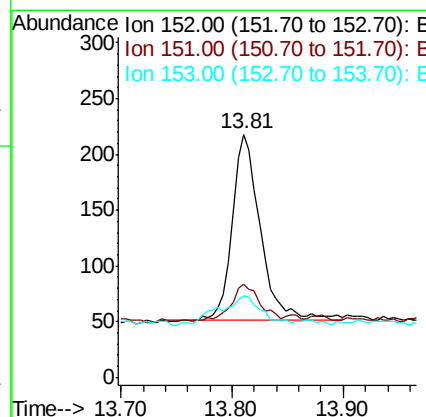
RT: 13.81 min Scan# 2397

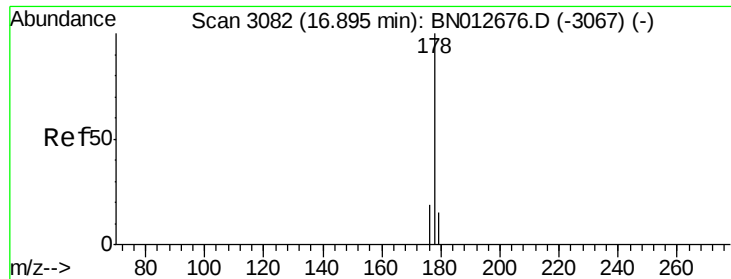
Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 290   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 38.5  | 17.1  | 25.7# |
| 153      | 33.5  | 12.6  | 19.0# |





#12

Phenanthrene

Concen: 0.245 ng/ul

RT: 16.89 min Scan# 3081

Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

Instrument :

BNA\_N

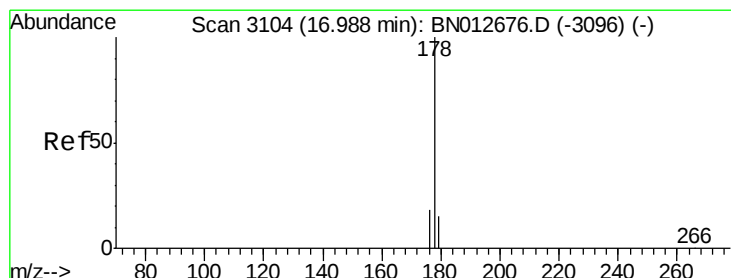
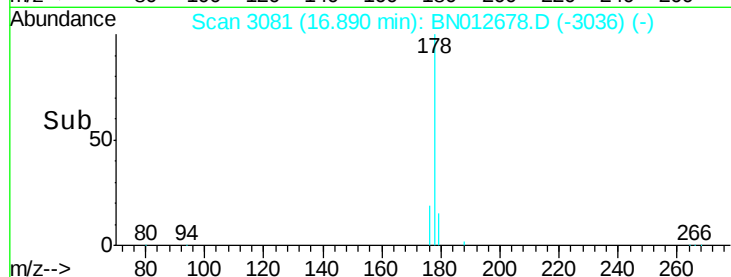
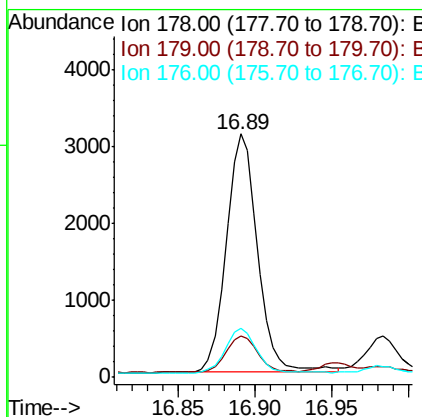
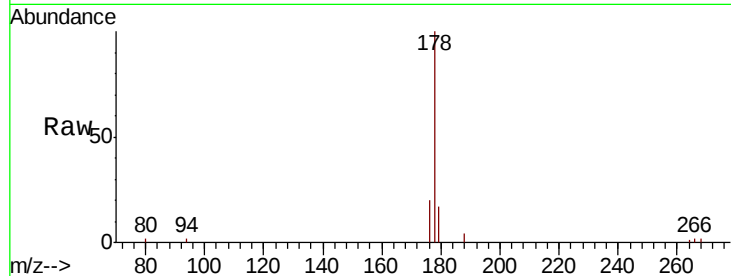
ClientSampleId :

C0B32DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 4440  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 17.0  | 13.8  | 20.6  |
| 176      | 20.0  | 16.7  | 25.1  |

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#13

Anthracene

Concen: 0.042 ng/ul

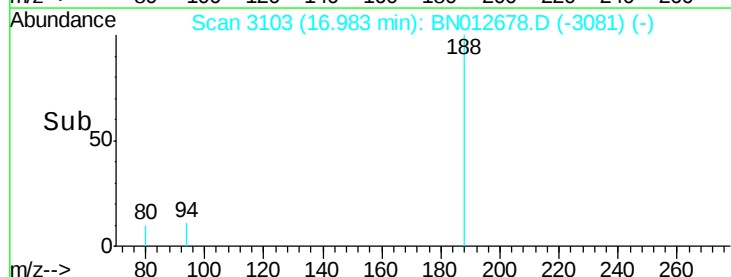
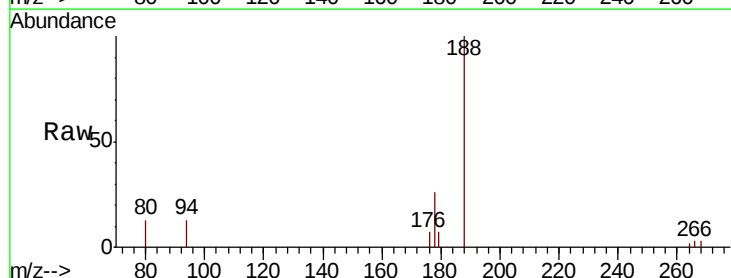
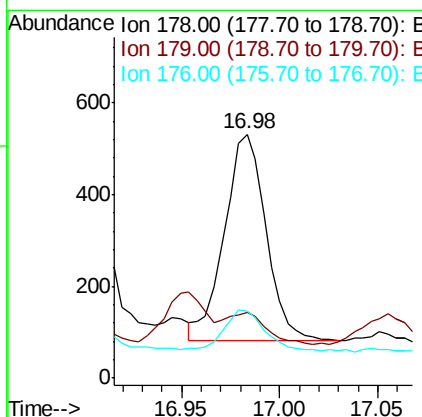
RT: 16.98 min Scan# 3103

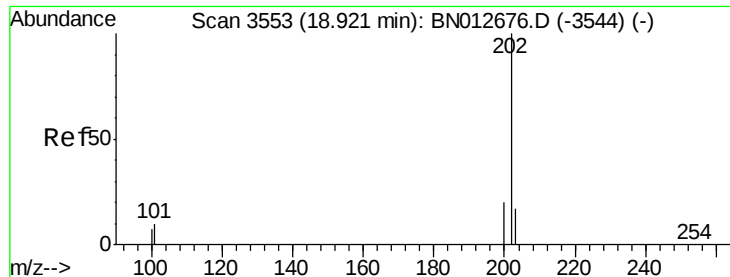
Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 664   |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 27.1  | 14.8  | 22.2# |
| 176      | 27.3  | 16.3  | 24.5# |





#15

Fluoranthene

Concen: 0.841 ng/ul

RT: 18.92 min Scan# 3553

Delta R.T. -0.00 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

Instrument :

BNA\_N

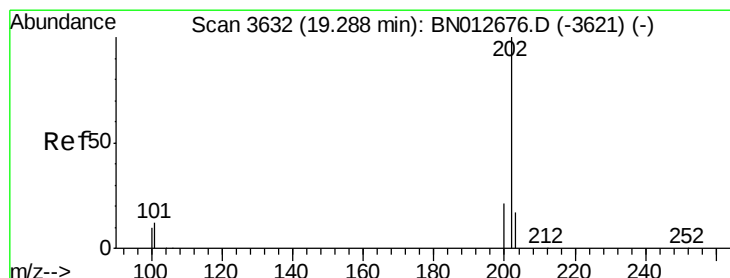
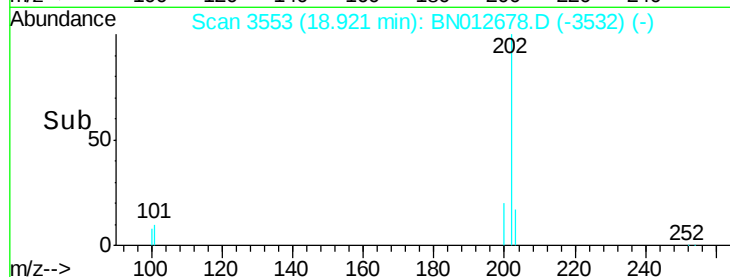
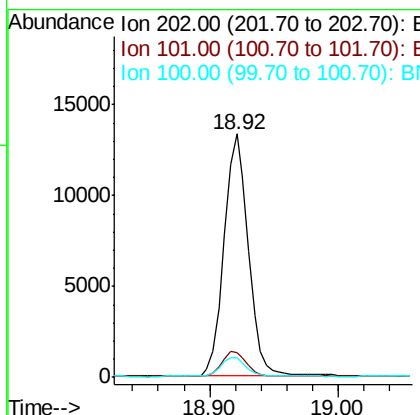
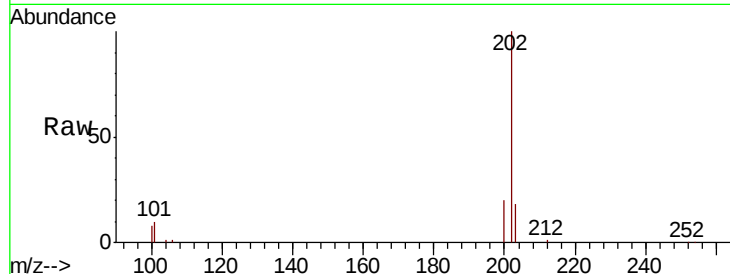
ClientSampleId :

C0B32DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 17598 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.4  | 0.0   | 30.5  |
| 100       | 8.0   | 0.0   | 28.4  |

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#17

Pyrene

Concen: 0.787 ng/ul

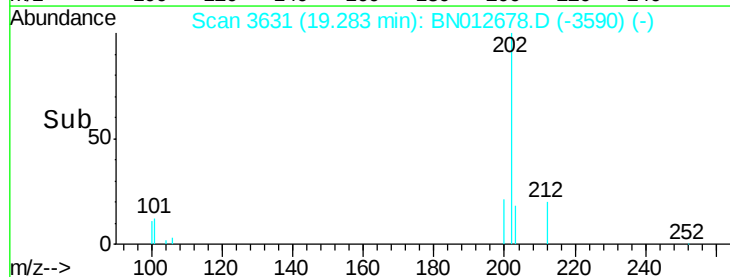
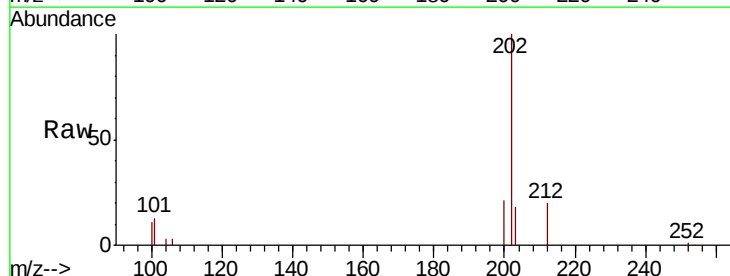
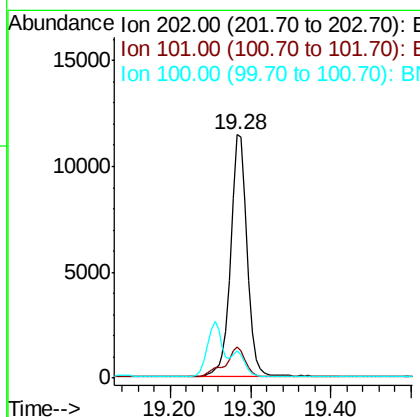
RT: 19.28 min Scan# 3631

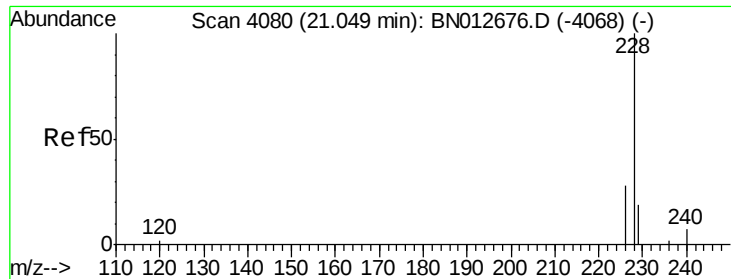
Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 15961 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.8  | 8.9   | 13.3  |
| 100       | 11.2  | 7.4   | 11.2# |





#18

Benzo(a)anthracene

Concen: 0.492 ng/ul

RT: 21.05 min Scan# 4080

Delta R.T. -0.00 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

Instrument :

BNA\_N

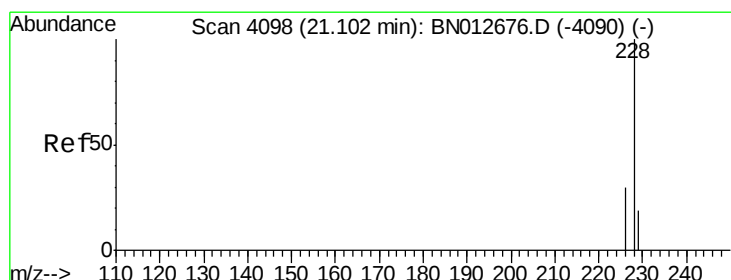
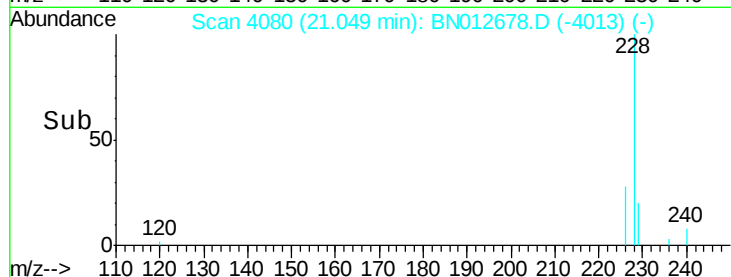
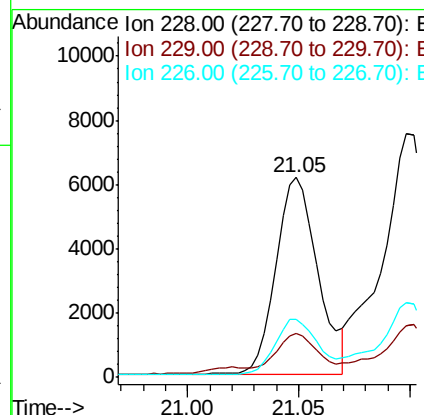
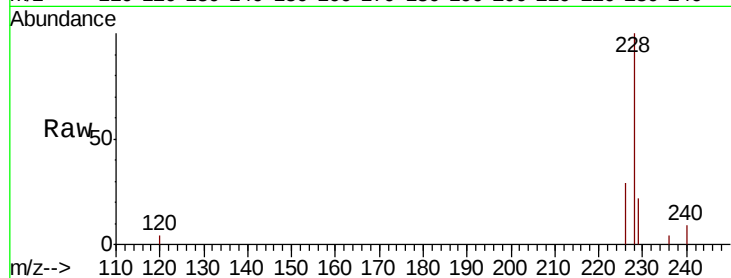
ClientSampleId :

C0B32DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 228   | Resp: | 7991 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 21.7  | 16.9  | 25.3 |
| 226       | 29.1  | 23.1  | 34.7 |

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#19

Chrysene

Concen: 0.574 ng/ul

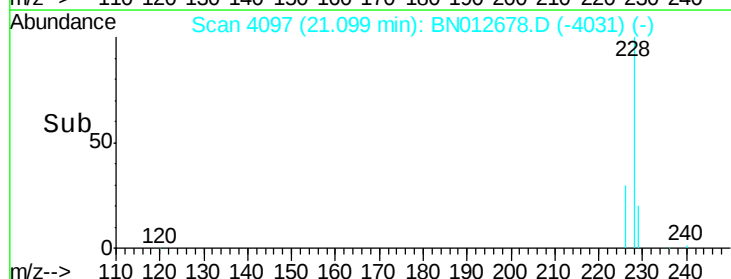
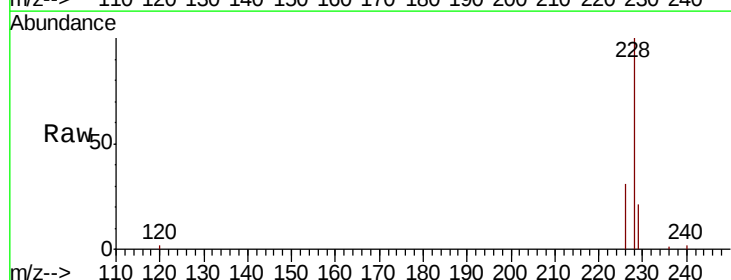
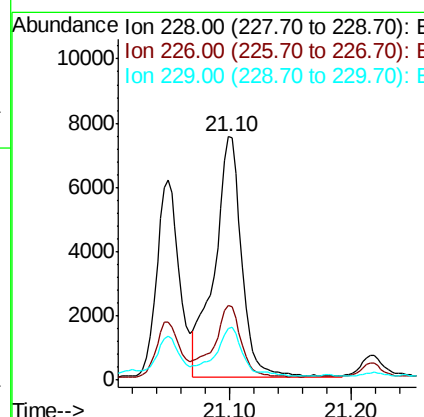
RT: 21.10 min Scan# 4097

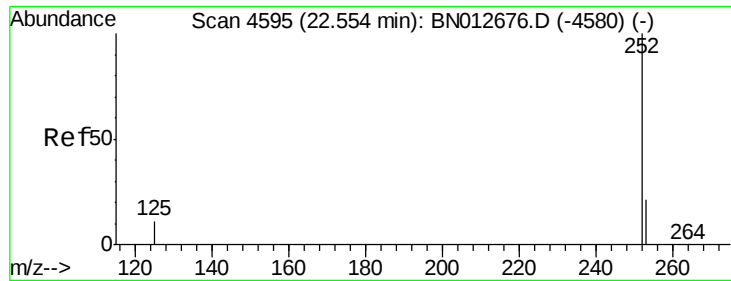
Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 11640 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.8  | 24.4  | 36.6  |
| 229       | 21.1  | 16.1  | 24.1  |





#21

Benzo(b)fluoranthene

Concen: 0.798 ng/ul m

RT: 22.56 min Scan# 4596

Delta R.T. -0.00 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

Instrument :

BNA\_N

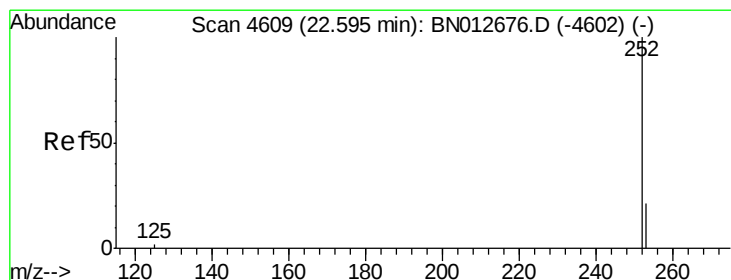
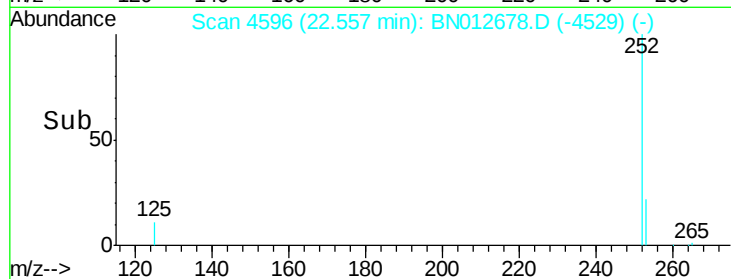
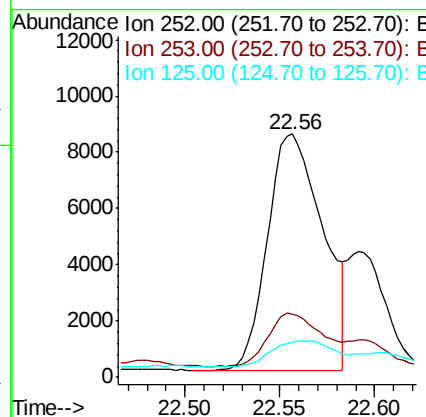
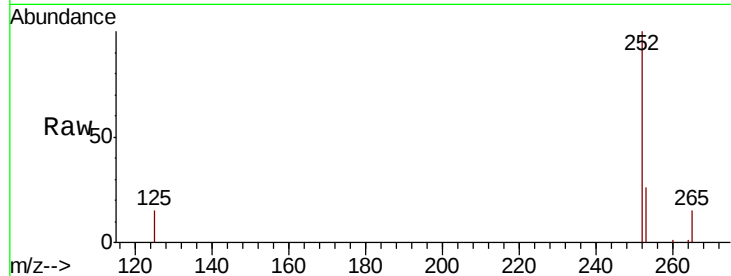
ClientSampleId :

C0B32DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 17098 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.1  | 0.0   | 58.4  |
| 125       | 14.5  | 0.0   | 28.6  |

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#22

Benzo(k)fluoranthene

Concen: 0.241 ng/ul m

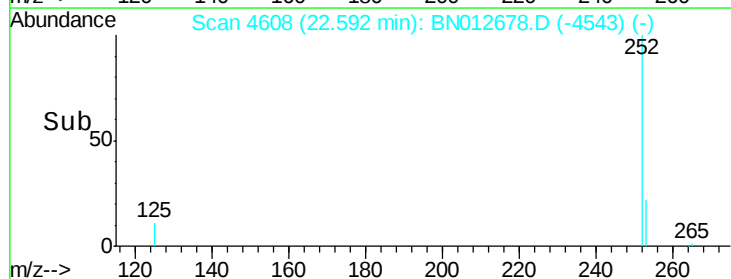
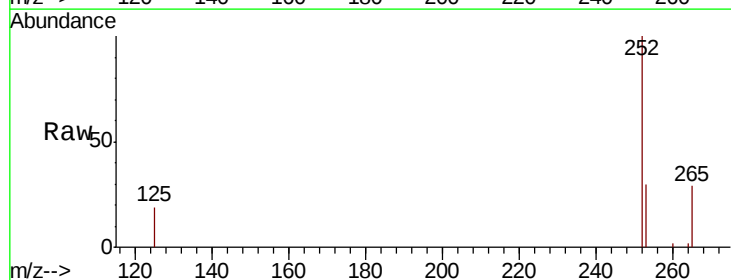
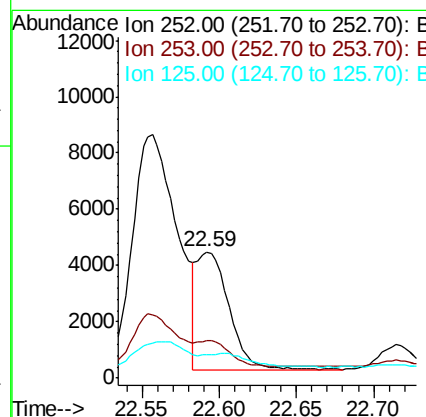
RT: 22.59 min Scan# 4608

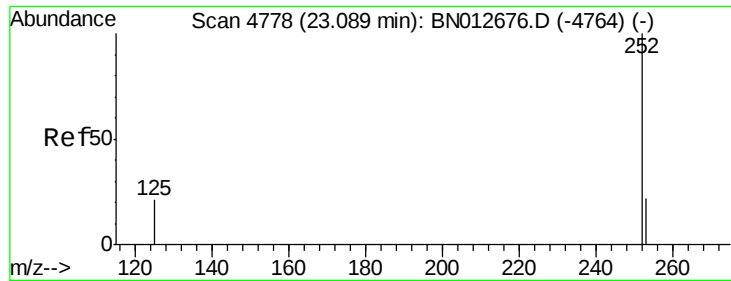
Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 5961  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.6  | 23.4  | 35.2  |
| 125       | 18.6  | 10.2  | 15.2# |





#23

Benzo(a)pyrene

Concen: 0.511 ng/ul m

RT: 23.09 min Scan# 4777

Delta R.T. -0.01 min

Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

Instrument :

BNA\_N

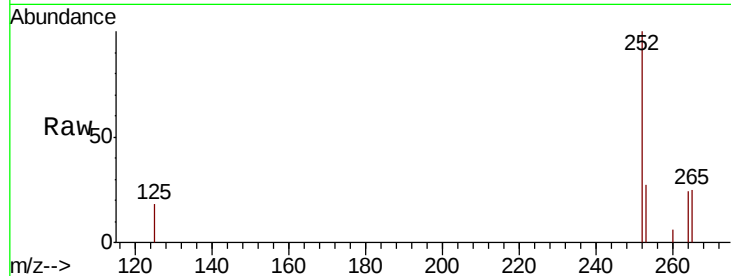
ClientSampleId :

C0B32DL

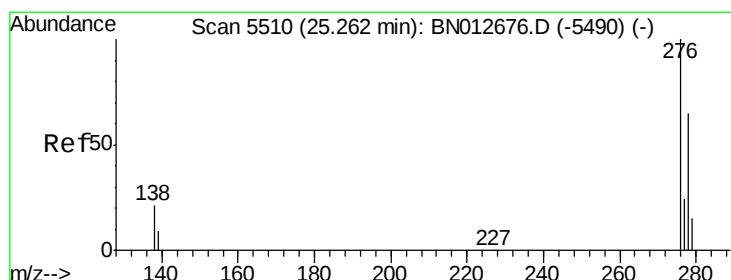
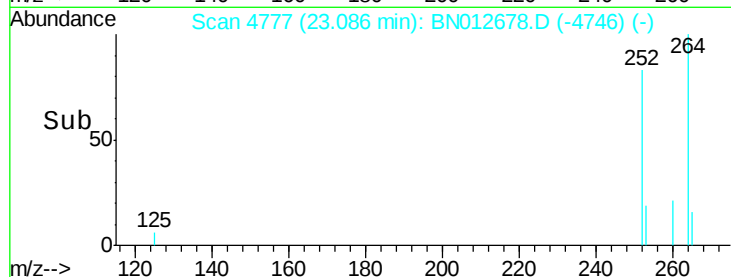
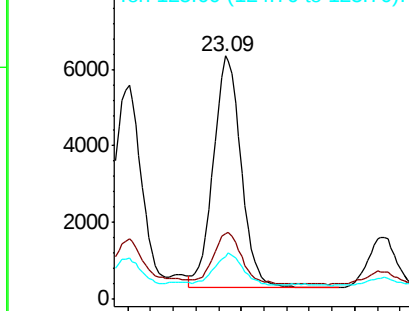
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 10299 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.2  | 27.6  | 41.4# |
| 125       | 17.6  | 17.0  | 25.4  |

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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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.317 ng/ul

RT: 25.26 min Scan# 5508

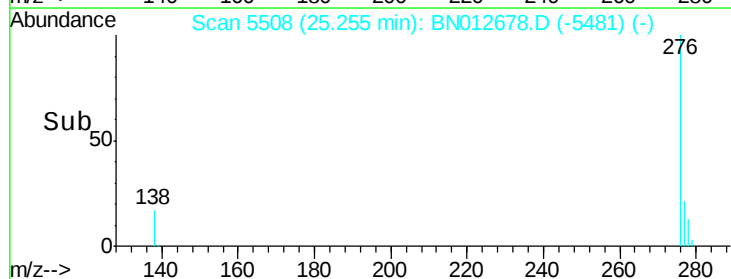
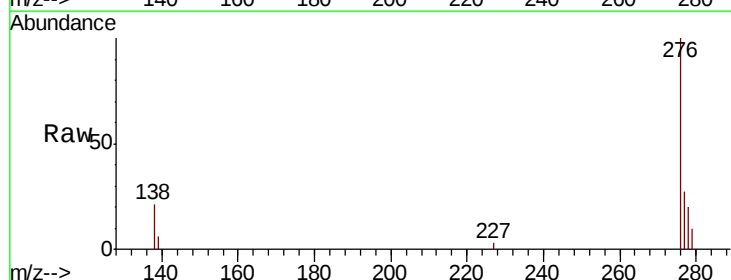
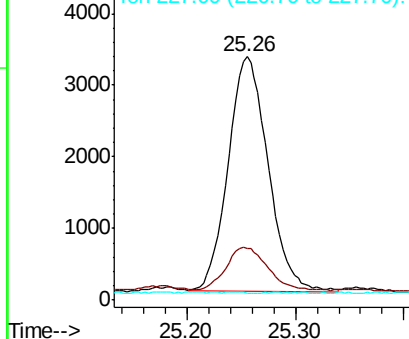
Delta R.T. -0.01 min

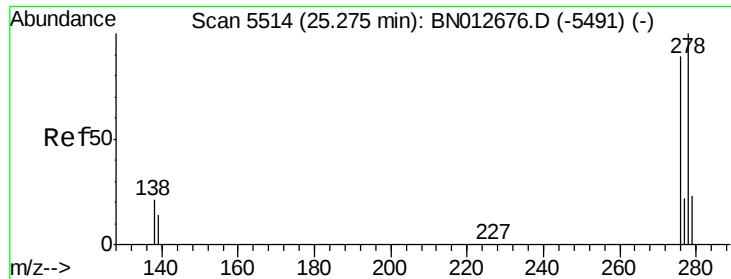
Lab File: BN012678.D

Acq: 21 Nov 2020 10:01

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 8368 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 19.0  | 16.5  | 24.7 |
| 227       | 0.1   | 0.1   | 0.1  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E





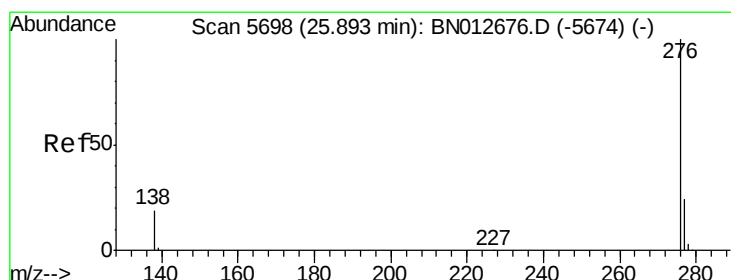
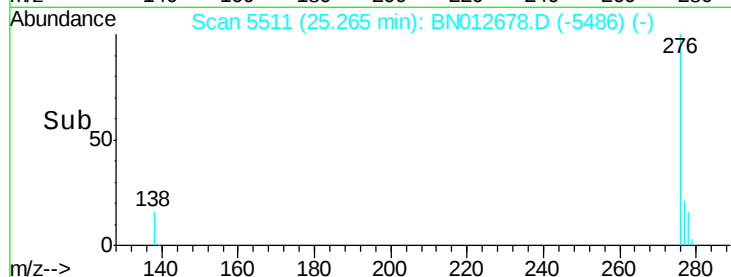
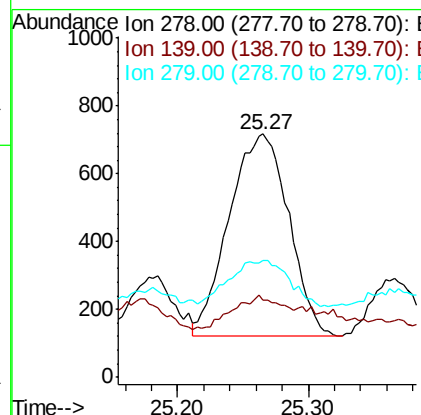
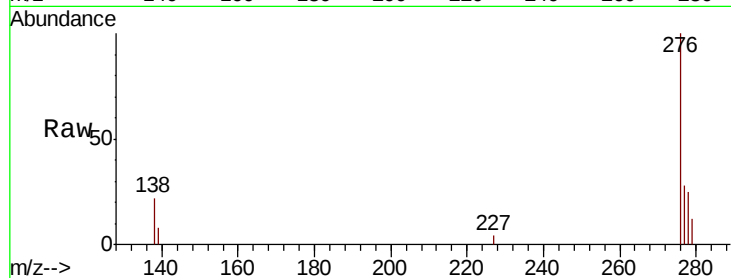
#25  
Dibenzo(a,h)anthracene  
Concen: 0.089 ng/u1  
RT: 25.27 min Scan# 5511  
Delta R.T. -0.02 min  
Lab File: BN012678.D  
Acq: 21 Nov 2020 10:01

Instrument :  
BNA\_N  
ClientSampleId :  
C0B32DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 31.5  | 13.8  | 20.8# |
| 279     | 48.2  | 25.6  | 38.4# |

Manual Integrations  
APPROVED

mohammad  
11/24/2020 8:56:40 AM



#26  
Benzo(g,h,i)perylene  
Concen: 0.340 ng/u1  
RT: 25.89 min Scan# 5697  
Delta R.T. -0.01 min  
Lab File: BN012678.D  
Acq: 21 Nov 2020 10:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.1  | 16.3  | 24.5  |
| 277     | 27.0  | 21.8  | 32.8  |

