

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121919\  
 Data File : BN009057.D  
 Acq On : 20 Dec 2019 07:57  
 Operator : JU  
 Sample : K6171-13  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BX0

Manual Integrations  
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Quant Time: Dec 20 11:08:05 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 15:54:16 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.54  | 152  | 3777     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.29 | 136  | 14913    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.17 | 164  | 8120     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.92 | 188  | 16869    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.12 | 240  | 9513     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.26 | 264  | 8474     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.89 | 152  | 2424     | 0.09   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.95 | 212  | 5475     | 0.11   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.89 | 152  | 1482     | 0.035  | ng/ul# | 87       |
| 9) Fluorene                 | 15.22 | 166  | 803      | 0.020  | ng/ul# | 91       |
| 12) Phenanthrene            | 16.95 | 178  | 22116    | 0.377  | ng/ul  | 99       |
| 13) Anthracene              | 17.05 | 178  | 4128     | 0.078  | ng/ul  | 96       |
| 15) Fluoranthene            | 18.98 | 202  | 50123    | 0.747  | ng/ul  | 99       |
| 17) Pyrene                  | 19.34 | 202  | 41565    | 0.856  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.10 | 228  | 16248    | 0.385  | ng/ul  | 95       |
| 19) Chrysene                | 21.16 | 228  | 15688m   | 0.370  | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 22.63 | 252  | 16241m   | 0.410  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.67 | 252  | 6049m    | 0.152  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.16 | 252  | 11498    | 0.332  | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.36 | 276  | 7546     | 0.200  | ng/ul# | 90       |
| 25) Dibenzo(a,h)anthracene  | 25.37 | 278  | 1742     | 0.058  | ng/ul# | 18       |
| 26) Benzo(g,h,i)perylene    | 26.00 | 276  | 7042     | 0.221  | ng/ul# | 86       |

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

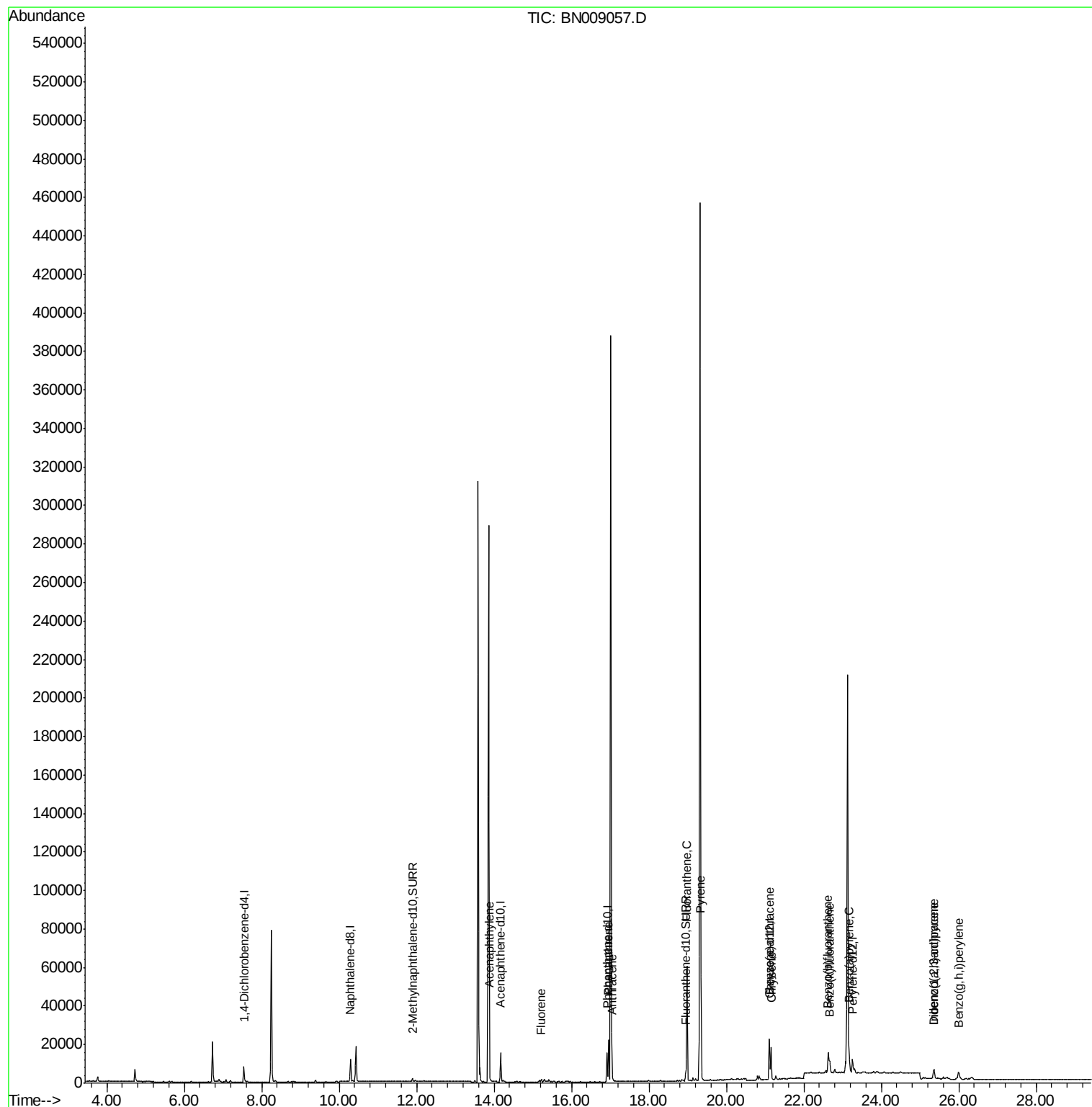
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121919\  
Data File : BN009057.D  
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Sample : K6171-13  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

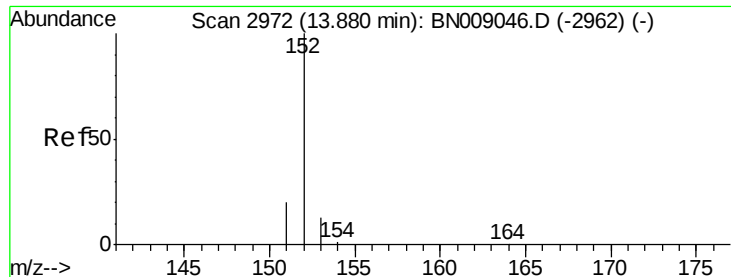
Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Time: Dec 20 11:08:05 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 15:54:16 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.035 ng/ul

RT: 13.89 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

Instrument :

BNA\_N

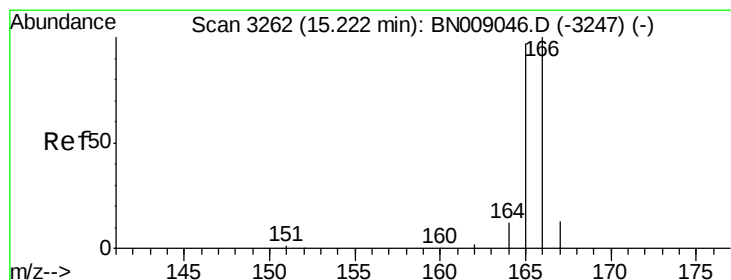
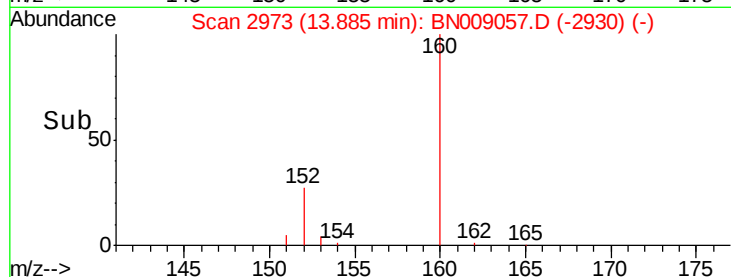
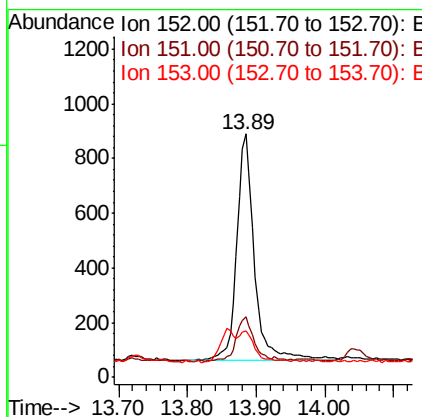
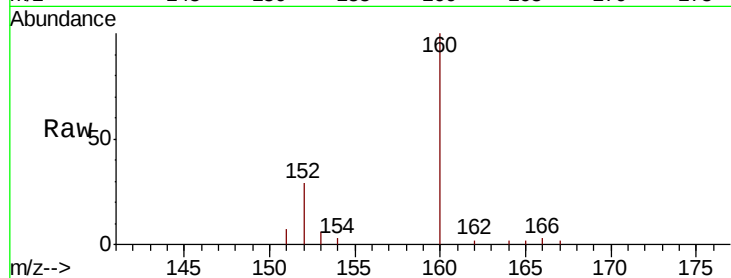
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1482  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 24.7  | 15.7  | 23.5# |
| 153       | 19.3  | 10.8  | 16.2# |

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#9

Fluorene

Concen: 0.020 ng/ul

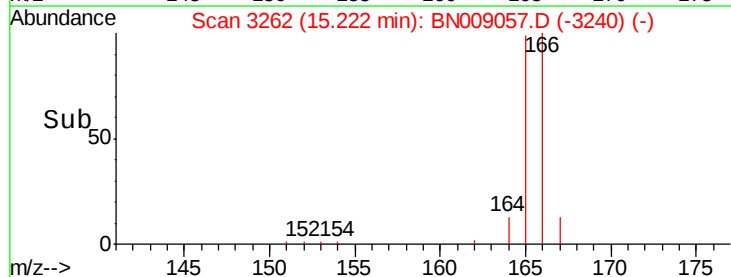
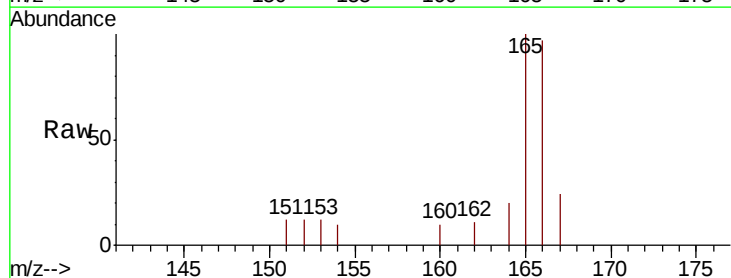
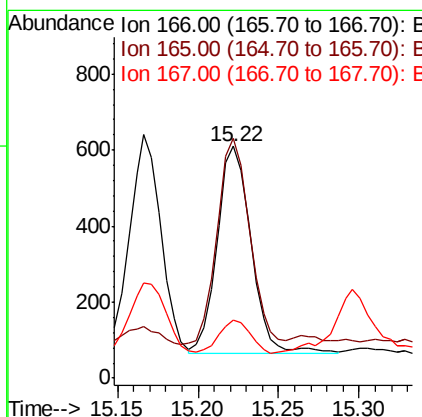
RT: 15.22 min Scan# 3262

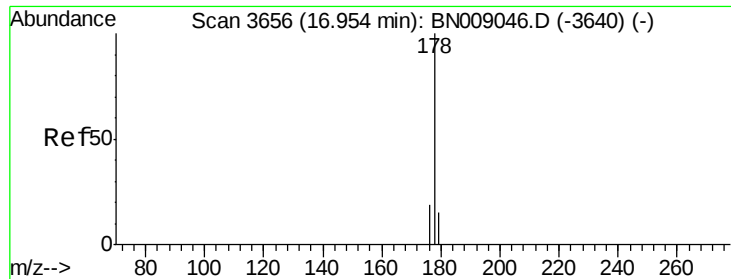
Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 803   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 103.6 | 78.2  | 117.4 |
| 167       | 24.9  | 11.0  | 16.6# |





#12

Phenanthrene

Concen: 0.377 ng/ul

RT: 16.95 min Scan# 3656

Delta R.T. -0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

Instrument :

BNA\_N

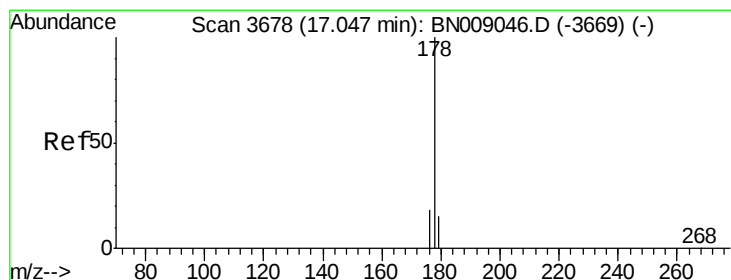
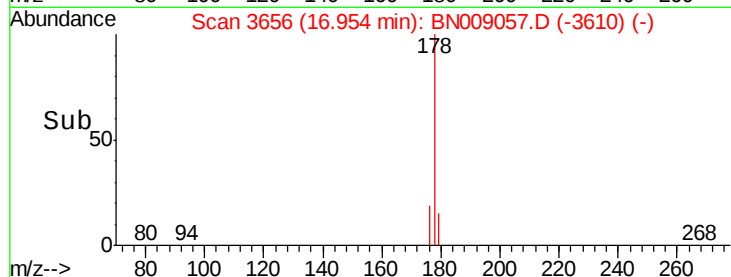
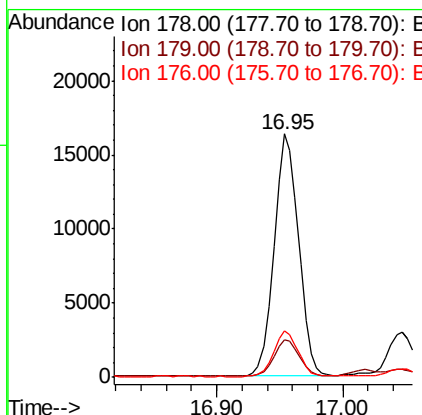
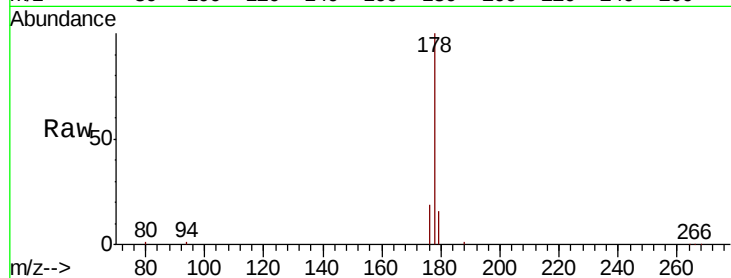
ClientSampleId :

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|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 22116     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.5  | 12.3 18.5 |
| 176         | 19.2  | 15.1 22.7 |

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#13

Anthracene

Concen: 0.078 ng/ul

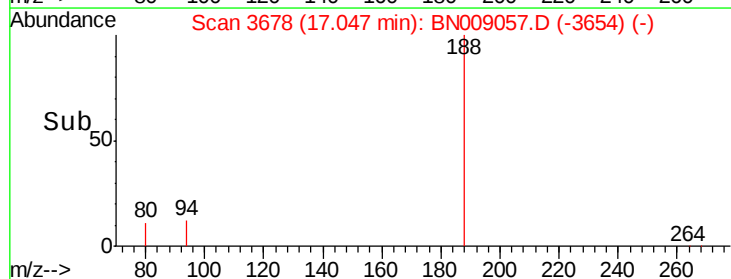
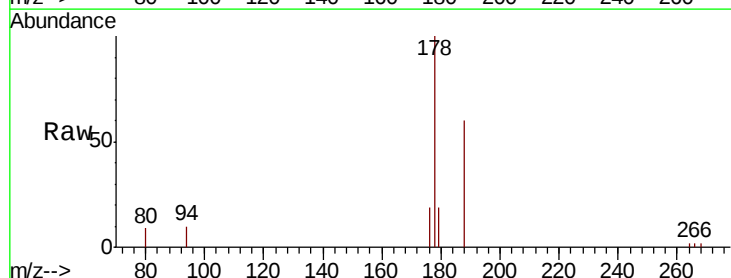
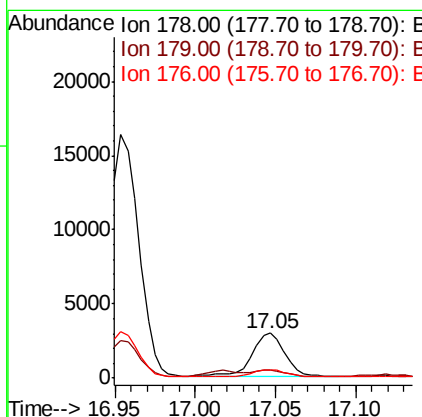
RT: 17.05 min Scan# 3678

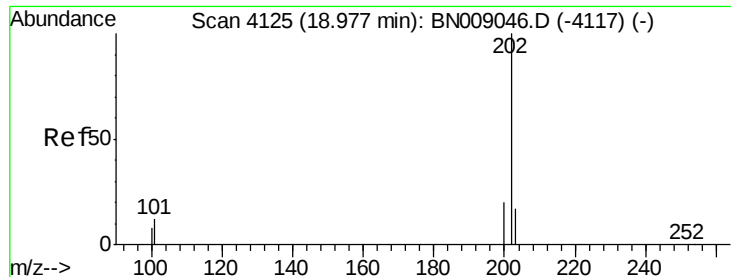
Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 4128      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 18.6  | 12.5 18.7 |
| 176         | 19.3  | 14.9 22.3 |





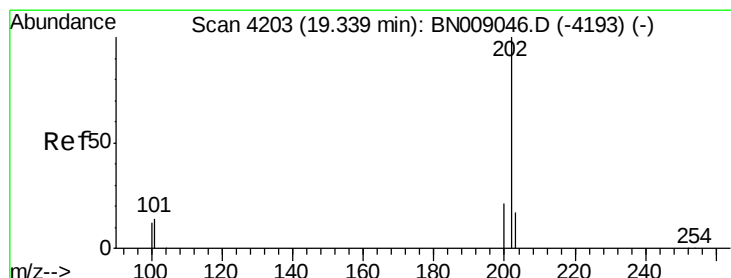
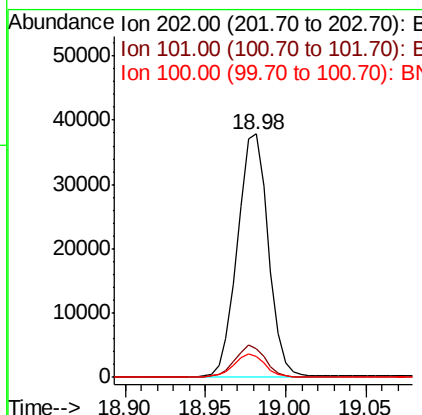
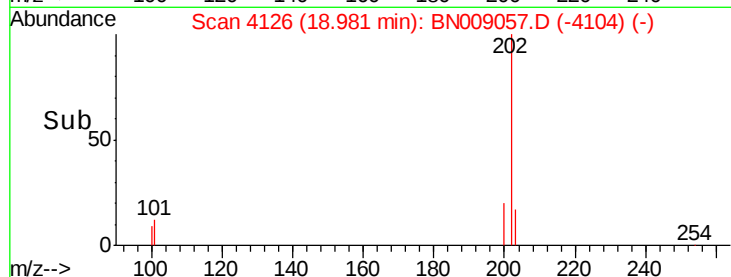
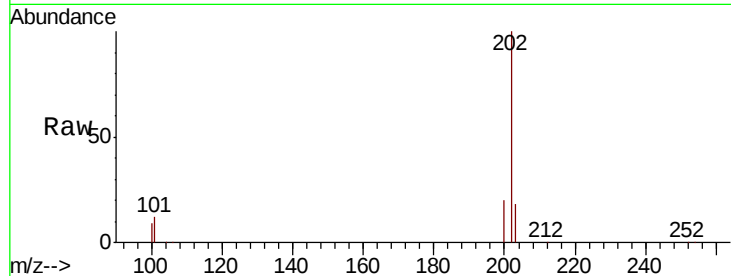
#15  
Fluoranthene  
Concen: 0.747 ng/ul  
RT: 18.98 min Scan# 4126  
Delta R.T. 0.00 min  
Lab File: BN009057.D  
Acq: 20 Dec 2019 07:57

Instrument :  
BNA\_N  
ClientSampleId :  
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| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.0  | 0.0        | 31.5  |
| 100     | 8.8   | 0.0        | 28.9  |

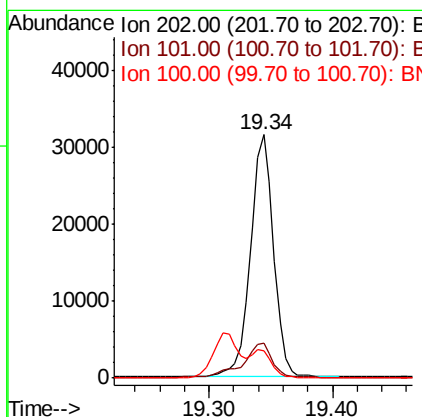
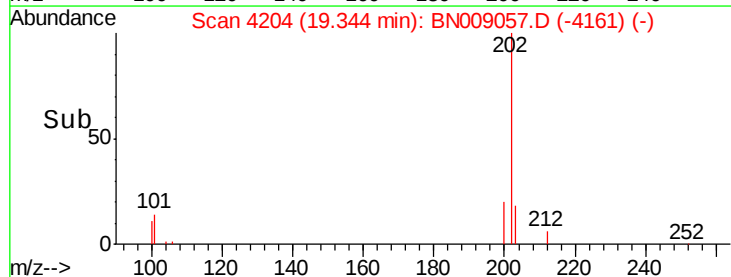
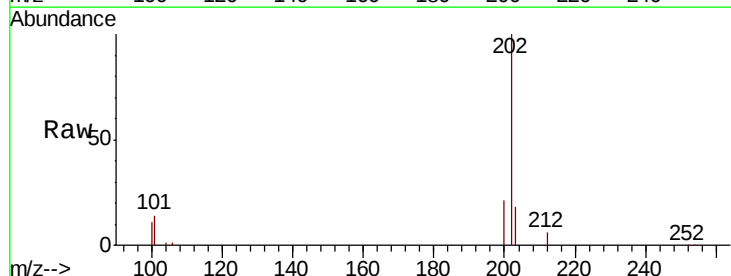
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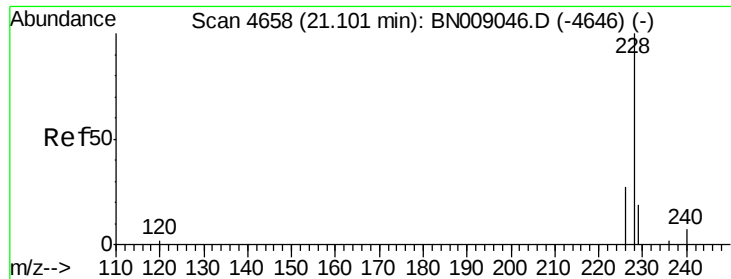
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#17  
Pyrene  
Concen: 0.856 ng/ul  
RT: 19.34 min Scan# 4204  
Delta R.T. 0.00 min  
Lab File: BN009057.D  
Acq: 20 Dec 2019 07:57

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 14.2  | 10.9       | 16.3  |
| 100     | 11.3  | 9.0        | 13.6  |





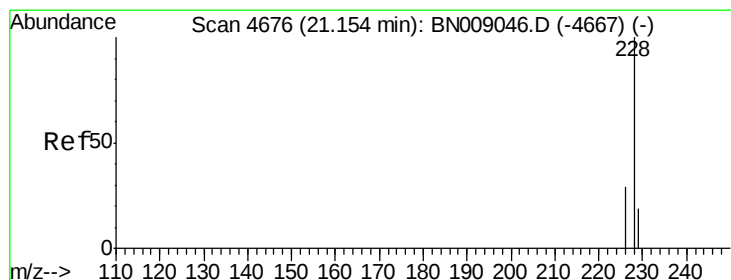
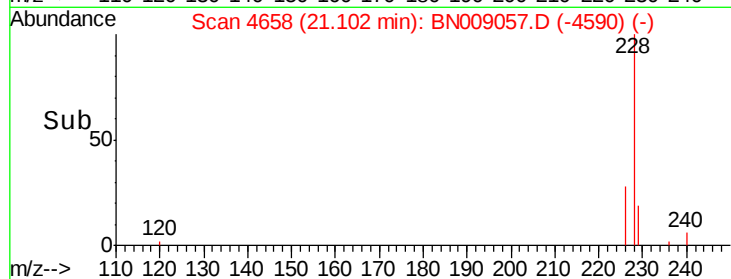
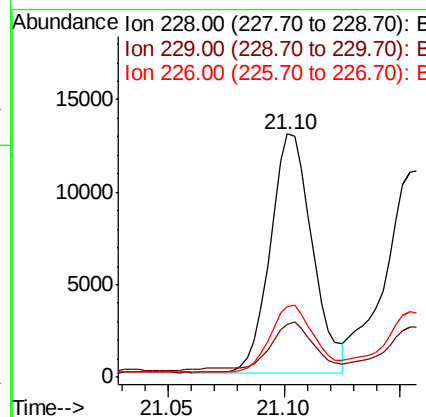
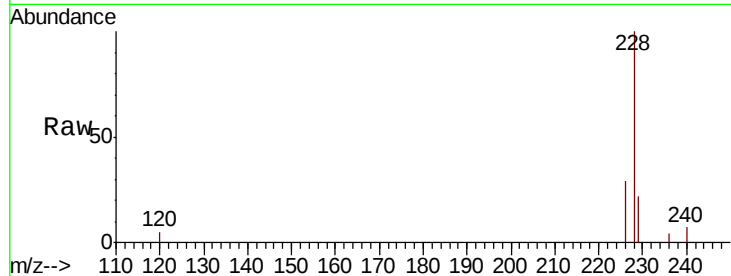
#18  
Benzo(a)anthracene  
Concen: 0.385 ng/ul  
RT: 21.10 min Scan# 4658  
Delta R.T. -0.00 min  
Lab File: BN009057.D  
Acq: 20 Dec 2019 07:57

Instrument :  
BNA\_N  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.9  | 15.5  | 23.3  |
| 226     | 29.2  | 21.7  | 32.5  |

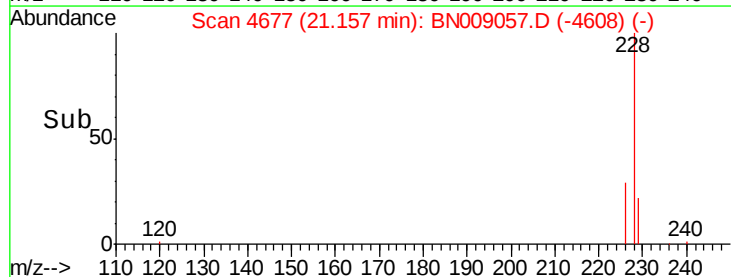
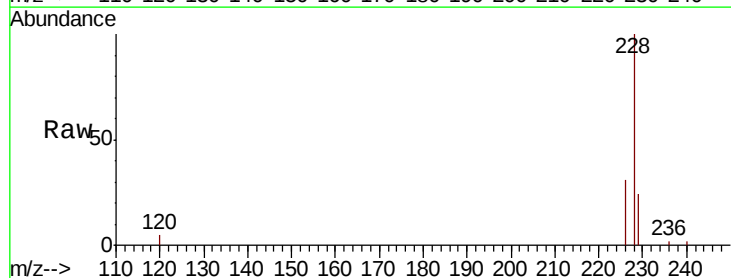
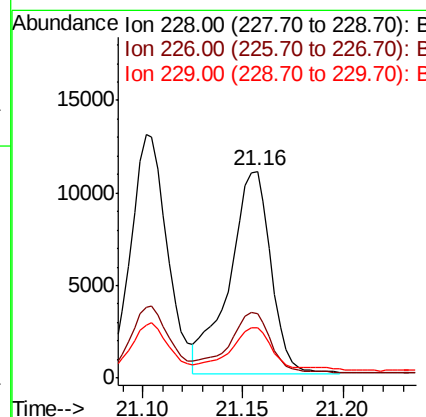
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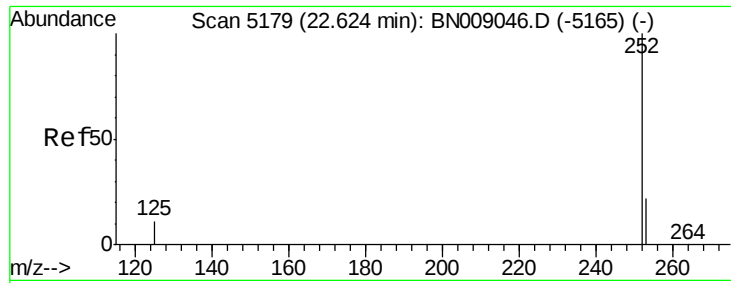
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#19  
Chrysene  
Concen: 0.370 ng/ul m  
RT: 21.16 min Scan# 4677  
Delta R.T. 0.00 min  
Lab File: BN009057.D  
Acq: 20 Dec 2019 07:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 23.7  | 35.5  |
| 229     | 24.2  | 15.4  | 23.0# |





#21

Benzo(b)fluoranthene

Concen: 0.410 ng/ul m

RT: 22.63 min Scan# 5180

Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

Instrument :

BNA\_N

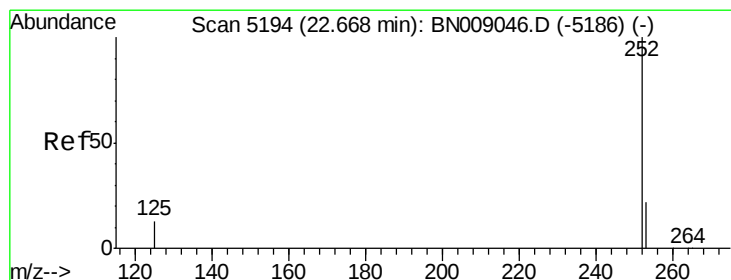
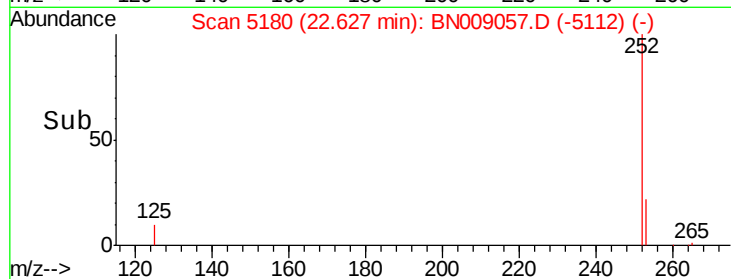
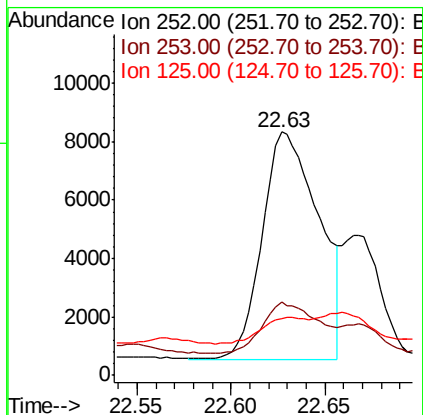
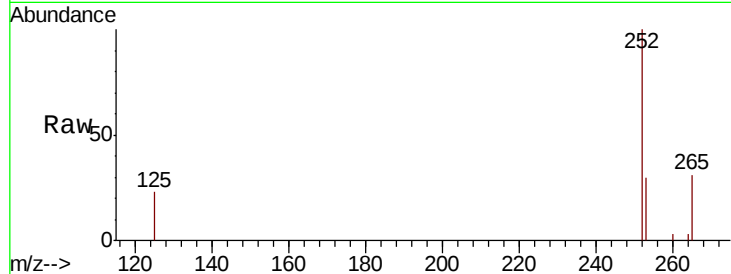
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 16241 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.0  | 0.0   | 48.2  |
| 125       | 23.3  | 0.0   | 30.0  |

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#22

Benzo(k)fluoranthene

Concen: 0.152 ng/ul m

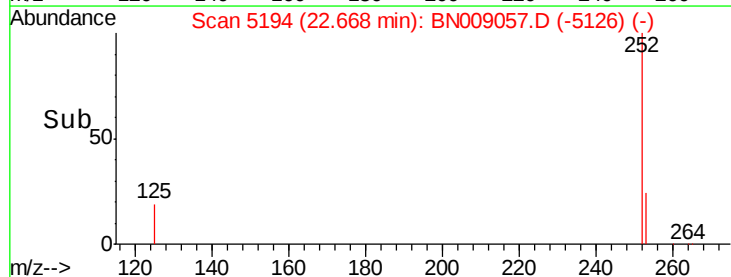
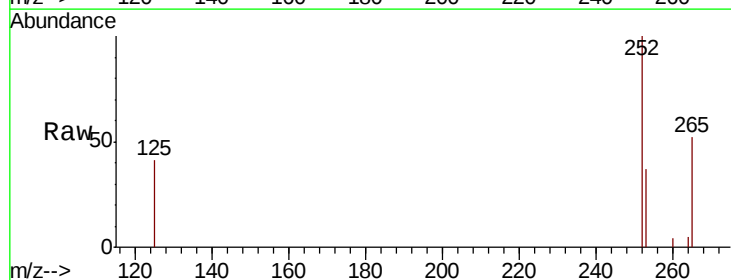
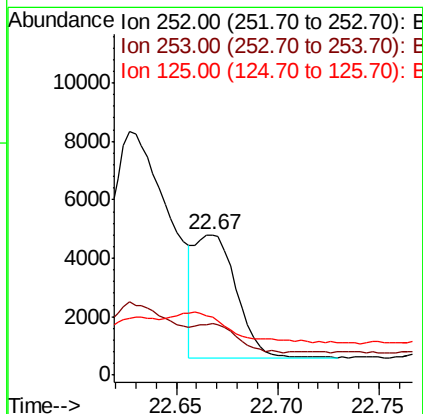
RT: 22.67 min Scan# 5194

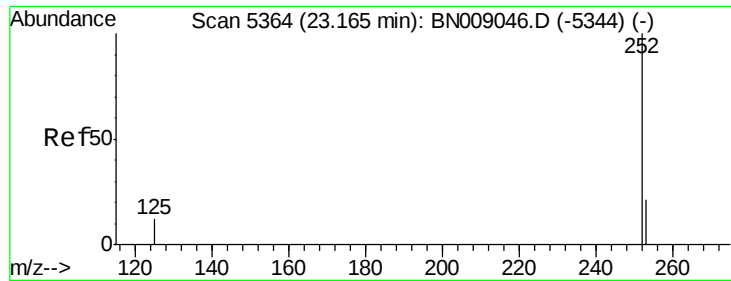
Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 6049  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 36.7  | 19.4  | 29.0# |
| 125       | 40.9  | 12.4  | 18.6# |





#23

Benzo(a)pyrene

Concen: 0.332 ng/ul

RT: 23.16 min Scan# 5364

Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

Instrument :

BNA\_N

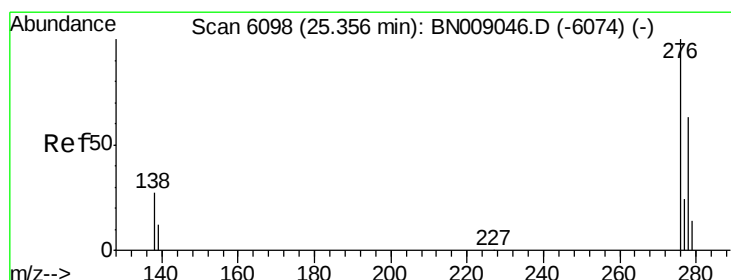
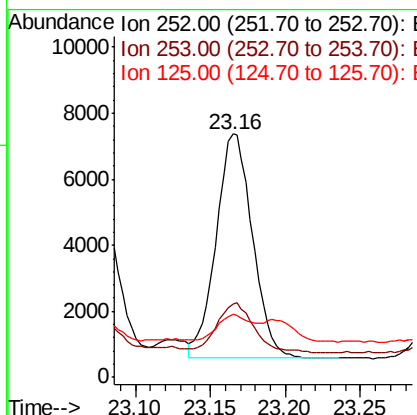
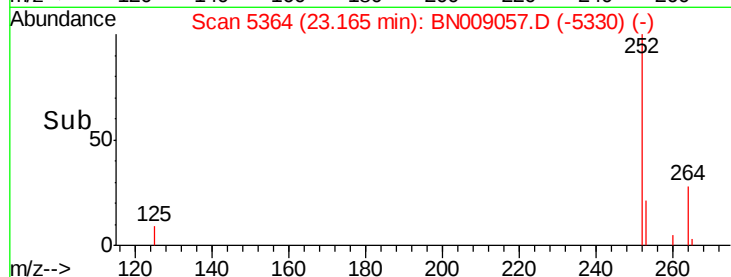
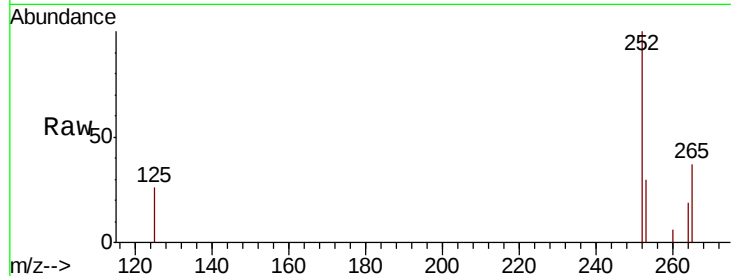
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 11498 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.1  | 20.2  | 30.4  |
| 125       | 25.7  | 13.2  | 19.8# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.200 ng/ul

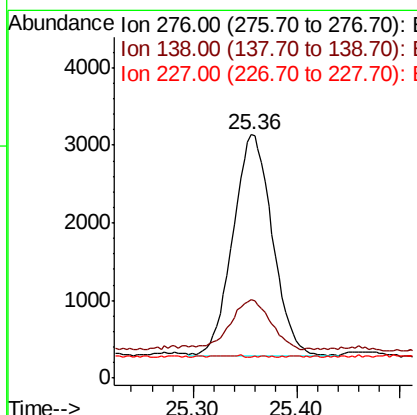
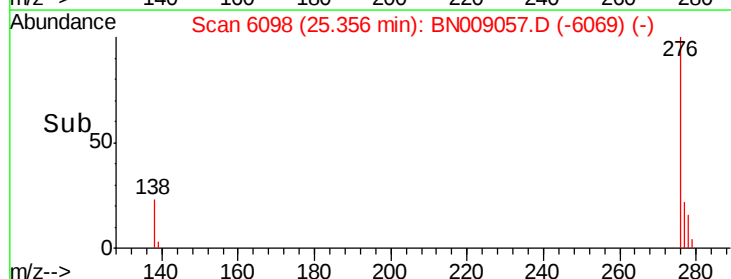
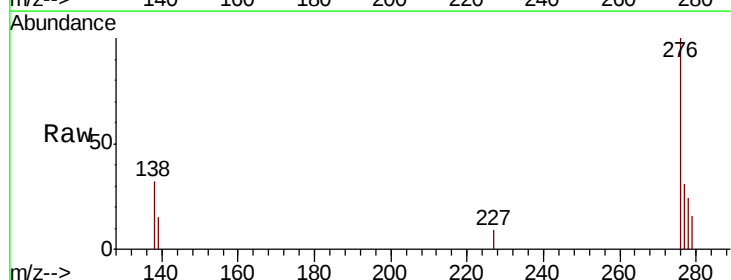
RT: 25.36 min Scan# 6098

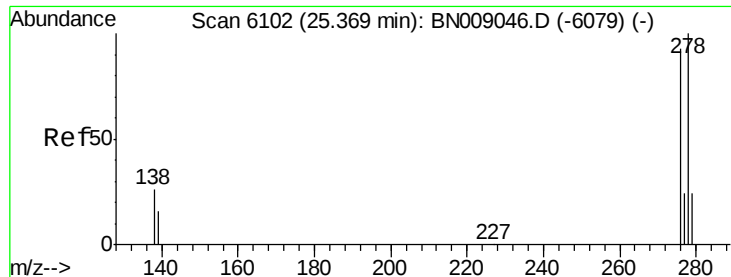
Delta R.T. -0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 7546 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 22.8  | 22.4  | 33.6 |
| 227       | 0.2   | 0.2   | 0.4# |





#25

Dibenzo(a,h)anthracene

Concen: 0.058 ng/u1

RT: 25.37 min Scan# 6101

Delta R.T. -0.01 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

Instrument :

BNA\_N

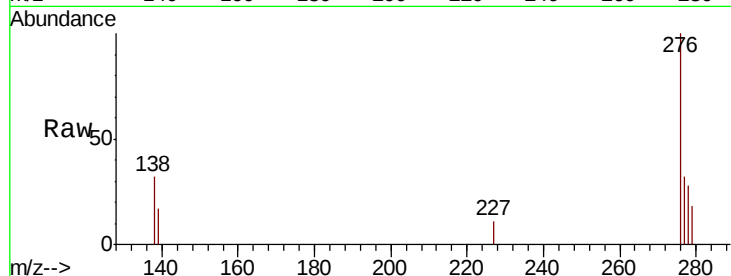
ClientSampleId :

C0BX0

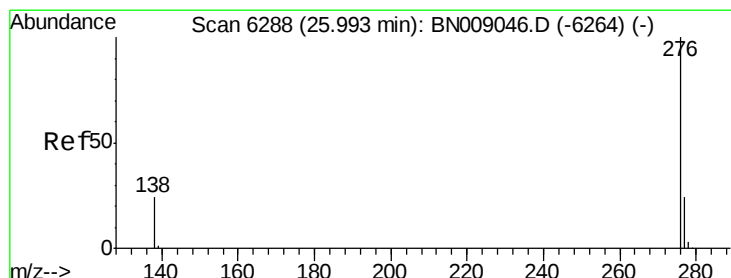
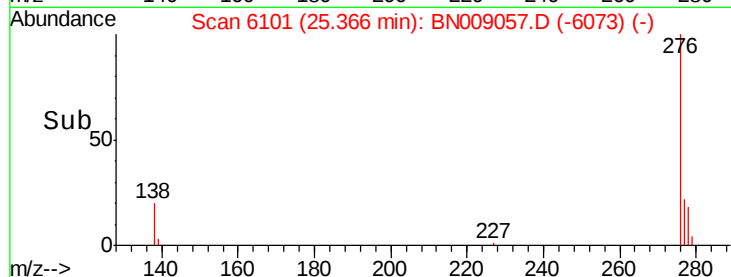
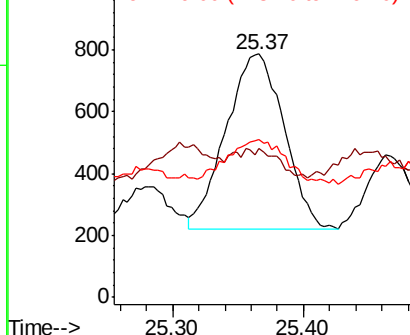
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 1742  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 61.0  | 16.2  | 24.2# |
| 279       | 64.7  | 20.3  | 30.5# |

Manual Integrations  
APPROVED

Sohil  
12/20/2019 4:30:07 PM



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26

Benzo(g,h,i)perylene

Concen: 0.221 ng/u1

RT: 26.00 min Scan# 6289

Delta R.T. 0.00 min

Lab File: BN009057.D

Acq: 20 Dec 2019 07:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 7042  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 33.5  | 20.6  | 30.8# |
| 277       | 31.2  | 19.6  | 29.4# |

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

