

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050719\  
 Data File : BN005525.D  
 Acq On : 07 May 2019 20:27  
 Operator : JU/SJ  
 Sample : K2403-01DL 10X  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A5101DL

Manual Integrations  
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Sohil  
 5/8/2019 6:27:16 AM

Quant Time: May 08 04:01:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN050719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 07 07:04:57 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.60  | 152  | 2279     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.36 | 136  | 9007     | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.23 | 164  | 5197     | 0.40   | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 16.98 | 188  | 11500    | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.21 | 240  | 8641     | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.41 | 264  | 9153     | 0.40   | ng/ul  | -0.03    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 408      | 0.03   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.03 | 212  | 1114     | 0.03   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.41 | 128  | 1217     | 0.051  | ng/ul# | 85       |
| 5) 2-Methylnaphthalene      | 12.05 | 142  | 592      | 0.036  | ng/ul  | 97       |
| 7) Acenaphthylene           | 13.95 | 152  | 600      | 0.023  | ng/ul# | 77       |
| 8) Acenaphthene             | 14.29 | 153  | 381      | 0.021  | ng/ul  | 95       |
| 9) Fluorene                 | 15.29 | 166  | 643      | 0.030  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.03 | 178  | 15521    | 0.495  | ng/ul  | 100      |
| 13) Anthracene              | 17.12 | 178  | 2933     | 0.094  | ng/ul# | 89       |
| 15) Fluoranthene            | 19.05 | 202  | 41861    | 0.965  | ng/ul  | 99       |
| 17) Pyrene                  | 19.42 | 202  | 33292    | 1.043  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 13885    | 0.466  | ng/ul# | 89       |
| 19) Chrysene                | 21.25 | 228  | 15554    | 0.425  | ng/ul# | 90       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 18536m   | 0.674  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.80 | 252  | 7988m    | 0.232  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.32 | 252  | 10743    | 0.349  | ng/ul# | 70       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.60 | 276  | 8178     | 0.238  | ng/ul# | 92       |
| 25) Dibenzo(a,h)anthracene  | 25.61 | 278  | 1911     | 0.067  | ng/ul# | 8        |
| 26) Benzo(a,h,i)perylene    | 26.26 | 276  | 6225     | 0.212  | ng/ul# | 76       |

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

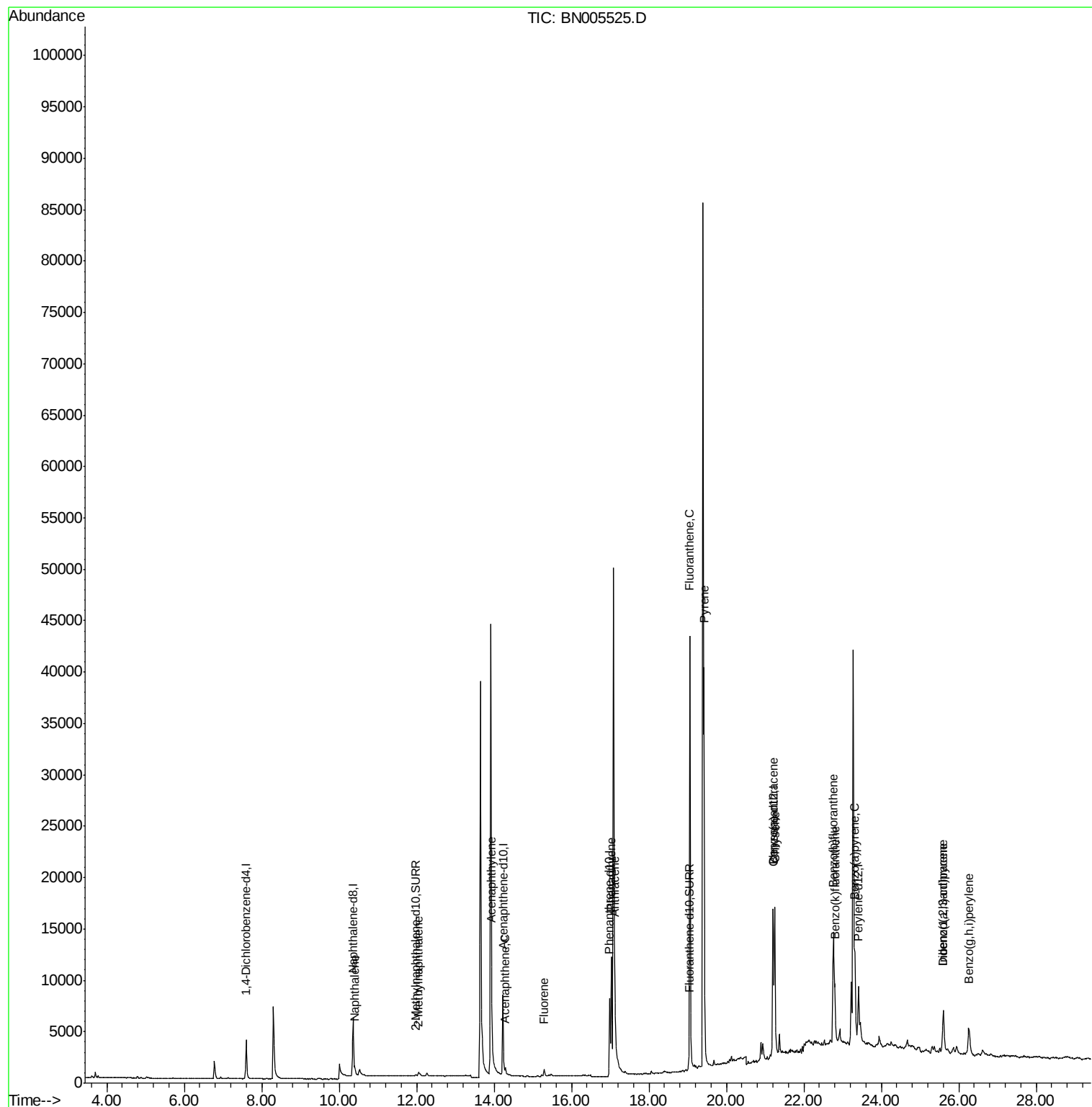
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050719\  
Data File : BN005525.D  
Acq On : 07 May 2019 20:27  
Operator : JU/SJ  
Sample : K2403-01DL 10X  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

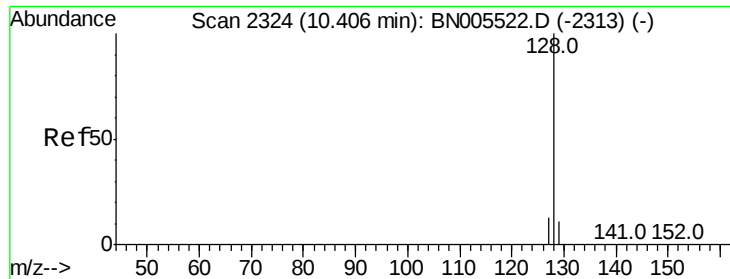
Instrument :  
BNA\_N  
ClientSampleId :  
A5101DL

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Quant Time: May 08 04:01:22 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN050719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 07 07:04:57 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.051 ng/ul

RT: 10.41 min Scan# 2324

Delta R.T. -0.02 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

Instrument :

BNA\_N

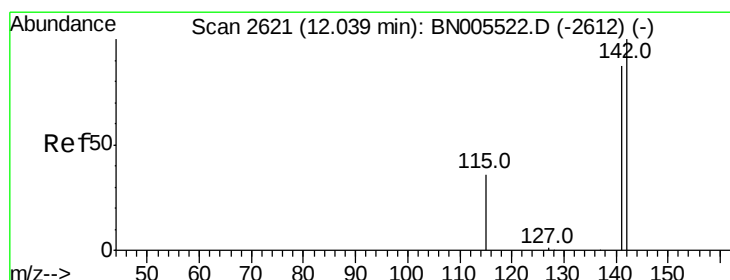
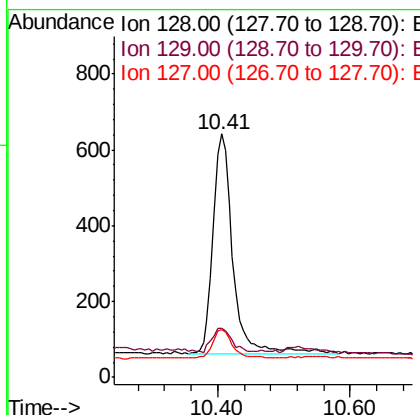
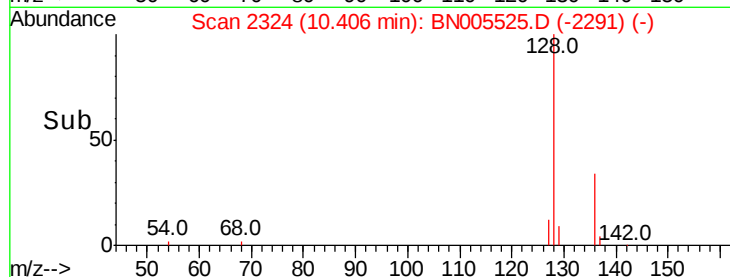
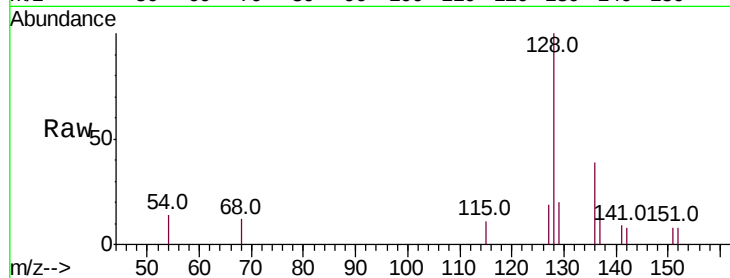
ClientSampleId :

A5101DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1217  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 20.1  | 10.2  | 15.2# |
| 127       | 19.5  | 11.8  | 17.8# |

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#5

2-Methylnaphthalene

Concen: 0.036 ng/ul

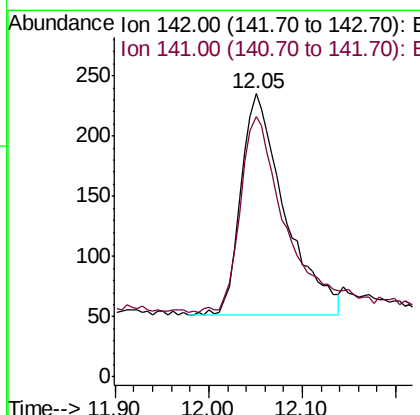
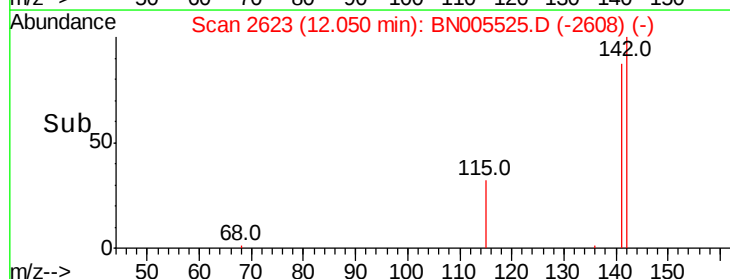
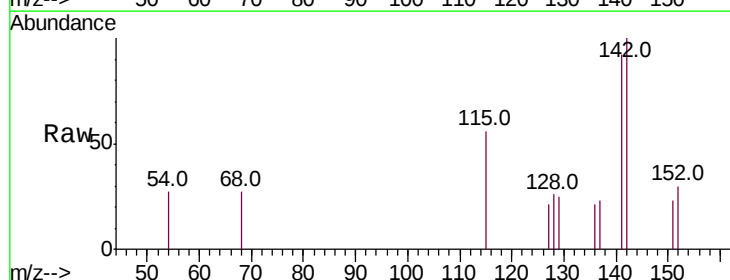
RT: 12.05 min Scan# 2623

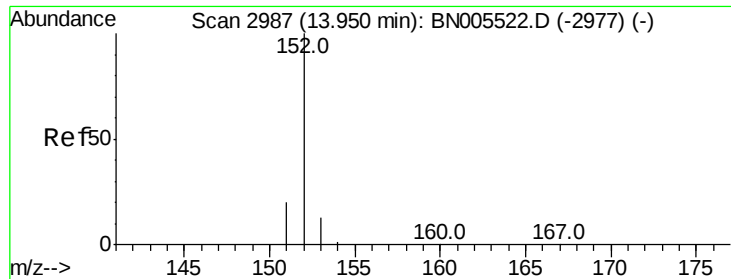
Delta R.T. -0.02 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 592   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 93.2  | 72.2  | 108.2 |





#7

Acenaphthylene

Concen: 0.023 ng/ul

RT: 13.95 min Scan# 2986

Delta R.T. -0.02 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

Instrument :

BNA\_N

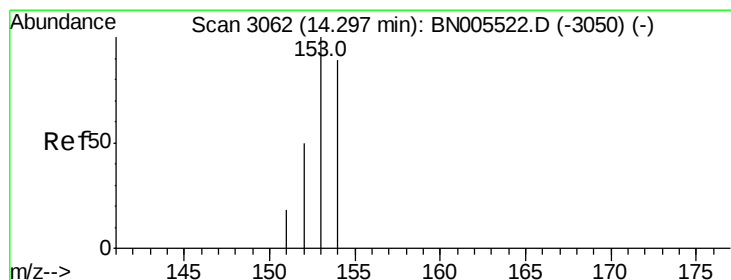
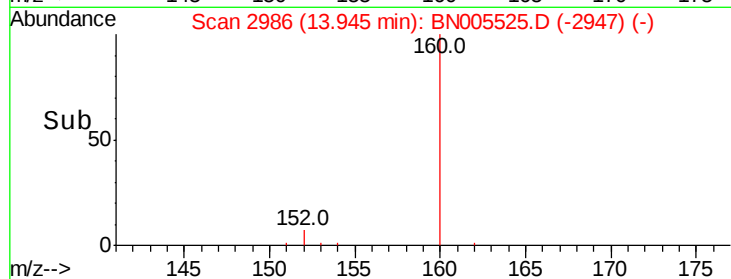
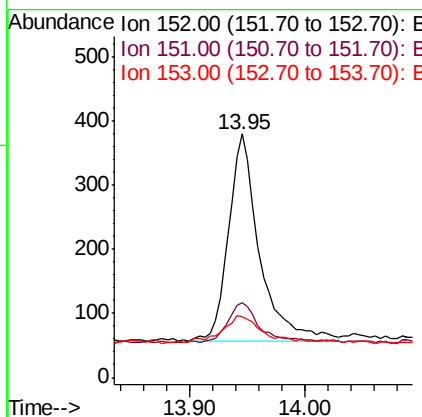
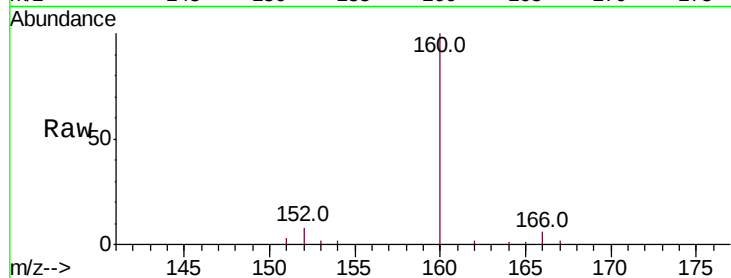
ClientSampled :

A5101DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 600   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 30.6  | 16.7  | 25.1# |
| 153       | 24.8  | 11.6  | 17.4# |

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#8

Acenaphthene

Concen: 0.021 ng/ul

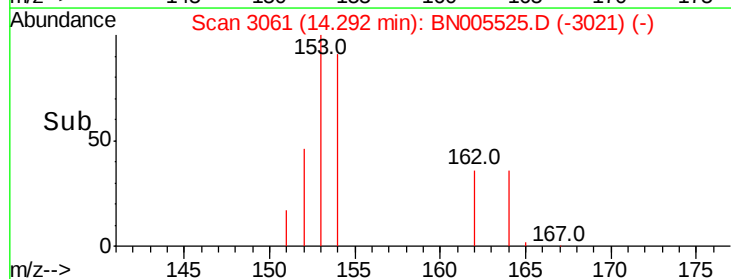
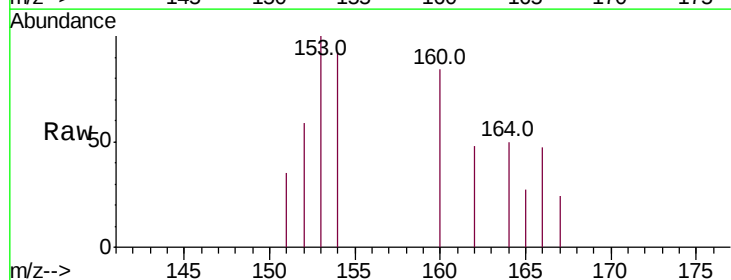
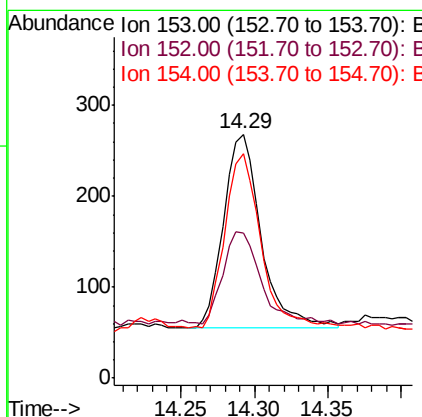
RT: 14.29 min Scan# 3061

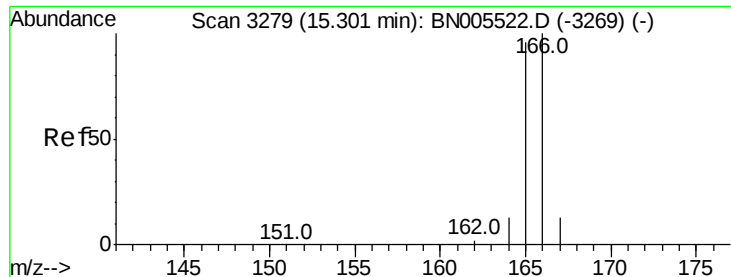
Delta R.T. -0.01 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 381   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 59.3  | 40.8  | 61.2  |
| 154       | 92.2  | 73.2  | 109.8 |





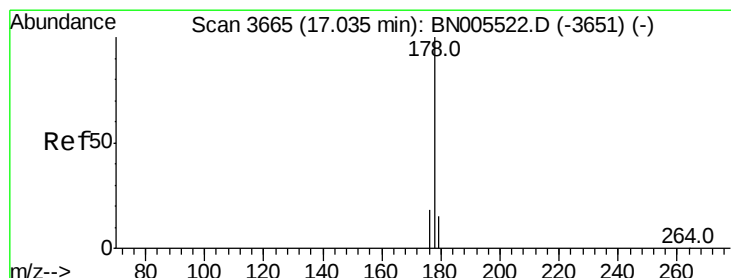
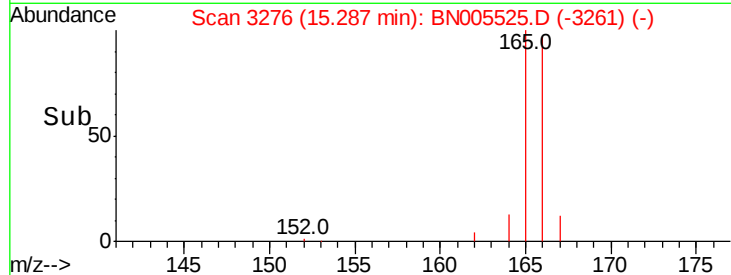
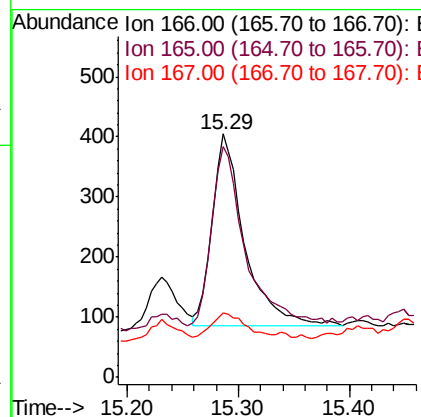
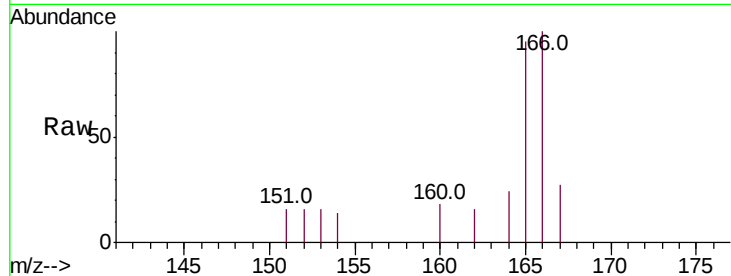
#9  
**Fluorene**  
 Concen: 0.030 ng/ul  
 RT: 15.29 min Scan# 3276  
 Delta R.T. -0.03 min  
 Lab File: BN005525.D  
 Acq: 07 May 2019 20:27

Instrument :  
 BNA\_N  
 ClientSampleID :  
 A5101DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 95.1  | 78.0  | 117.0 |
| 167     | 26.7  | 12.2  | 18.4  |

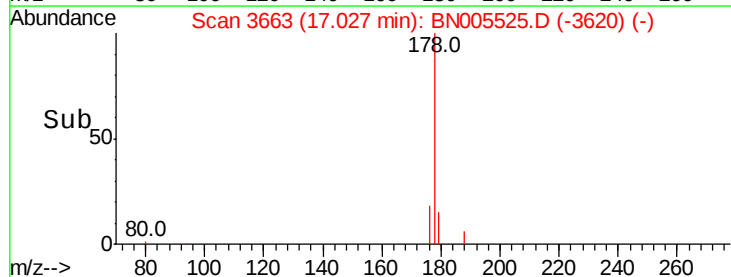
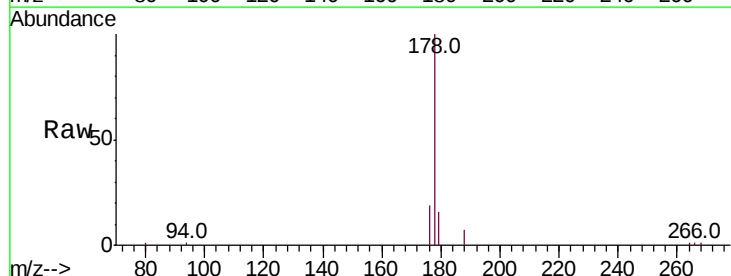
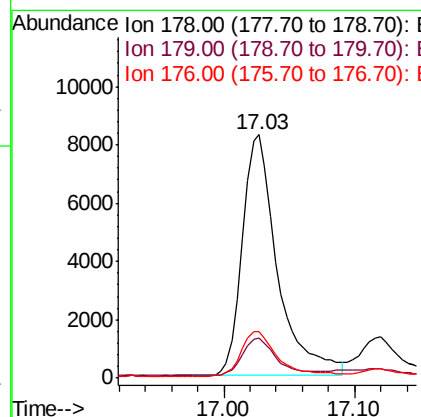
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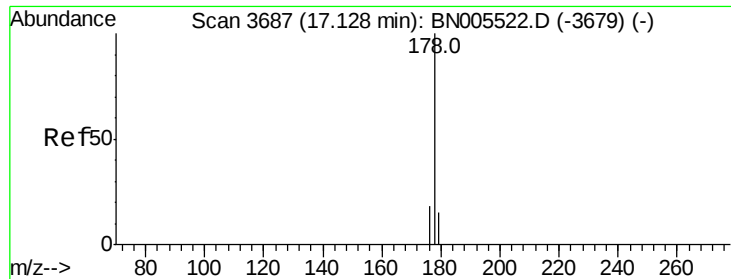
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#12  
**Phenanthrene**  
 Concen: 0.495 ng/ul  
 RT: 17.03 min Scan# 3663  
 Delta R.T. -0.02 min  
 Lab File: BN005525.D  
 Acq: 07 May 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.3  | 12.8  | 19.2  |
| 176     | 19.1  | 15.3  | 22.9  |





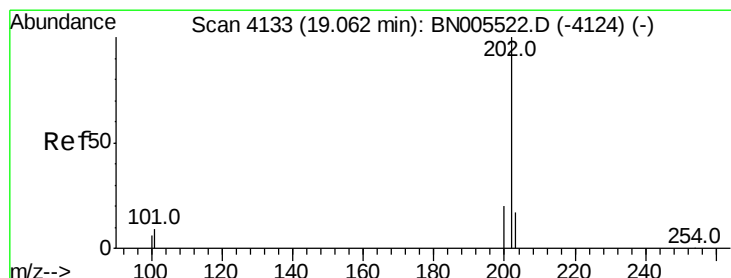
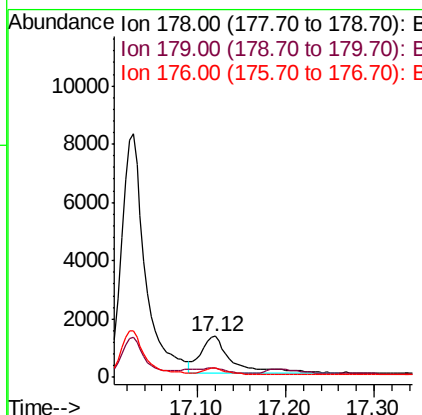
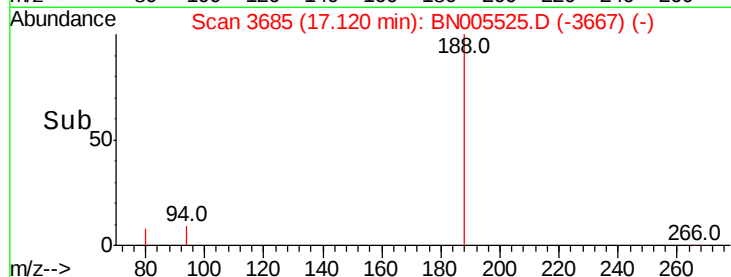
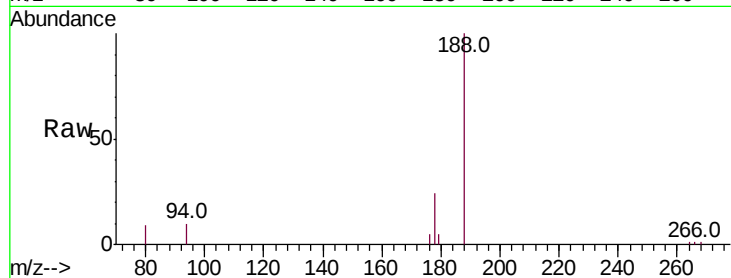
#13  
 Anthracene  
 Concen: 0.094 ng/ul  
 RT: 17.12 min Scan# 3685  
 Delta R.T. -0.03 min  
 Lab File: BN005525.D  
 Acq: 07 May 2019 20:27

Instrument :  
 BNA\_N  
 ClientSampled :  
 A5101DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 22.8  | 13.4  | 20.2# |
| 176     | 22.3  | 15.1  | 22.7  |

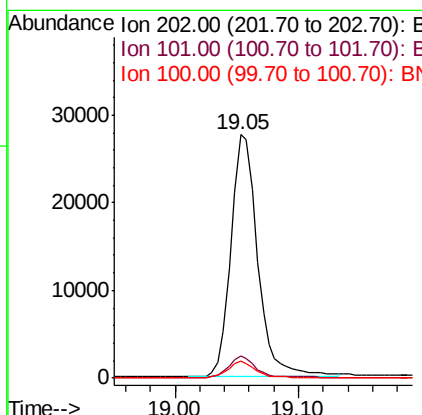
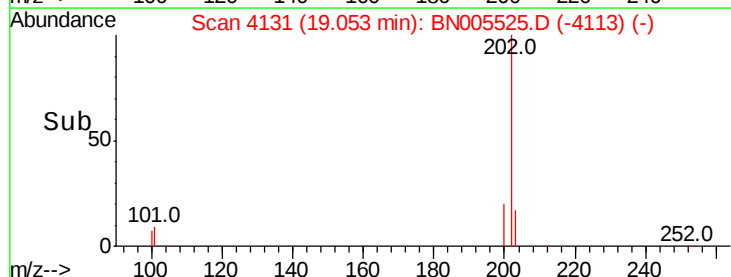
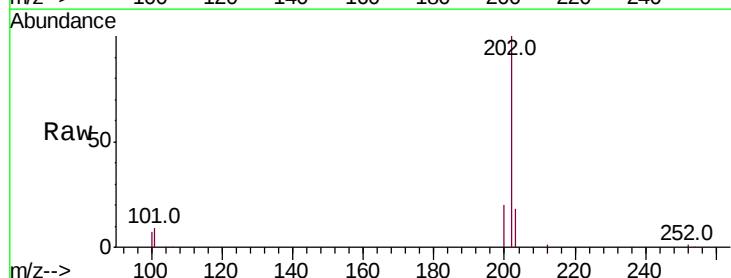
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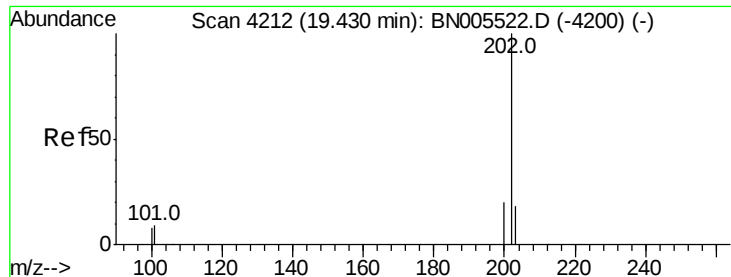
Sohil  
 5/8/2019 6:27:16 AM



#15  
 Fluoranthene  
 Concen: 0.965 ng/ul  
 RT: 19.05 min Scan# 4131  
 Delta R.T. -0.02 min  
 Lab File: BN005525.D  
 Acq: 07 May 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 0.0   | 29.4  |
| 100     | 6.9   | 0.0   | 27.1  |





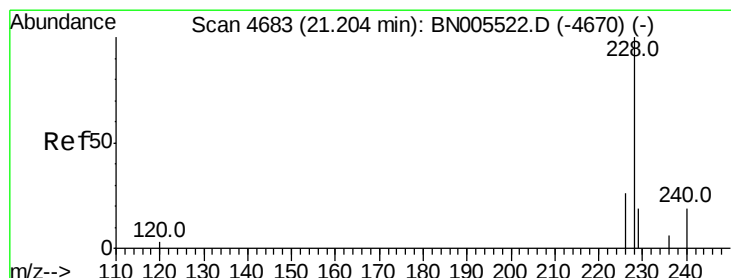
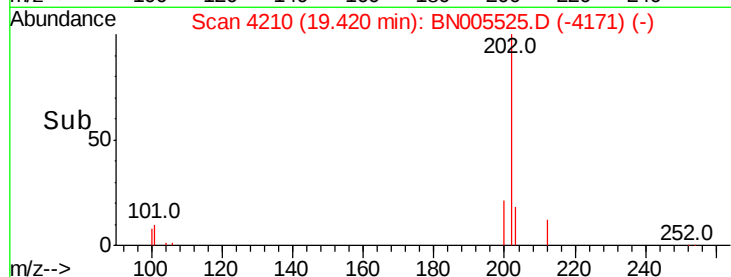
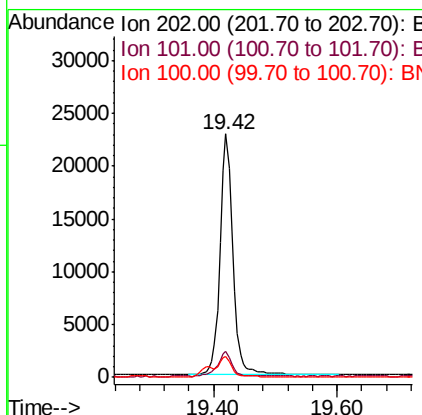
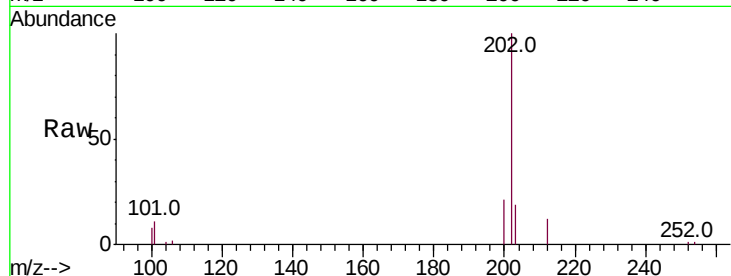
#17  
Pvrene  
Concen: 1.043 ng/ul  
RT: 19.42 min Scan# 4210  
Delta R.T. -0.02 min  
Lab File: BN005525.D  
Acq: 07 May 2019 20:27

Instrument :  
BNA\_N  
ClientSampleId :  
A5101DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.5  | 8.5        | 12.7  |
| 100     | 8.4   | 6.9        | 10.3  |

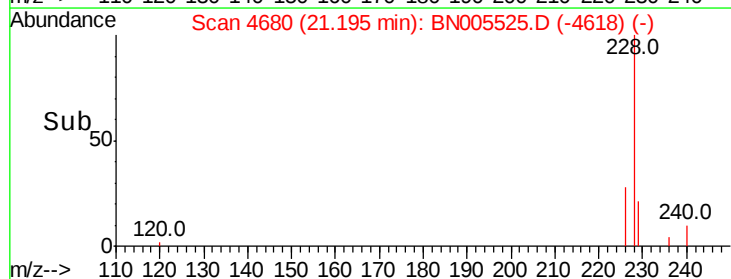
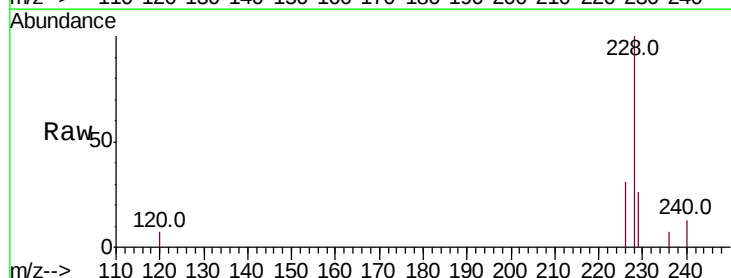
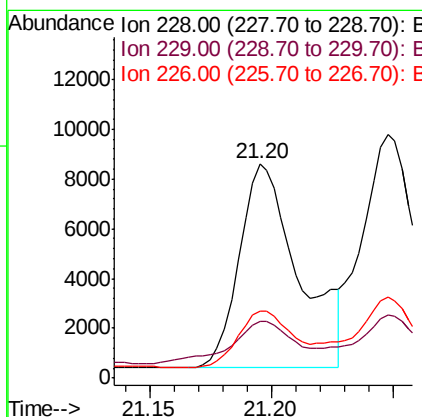
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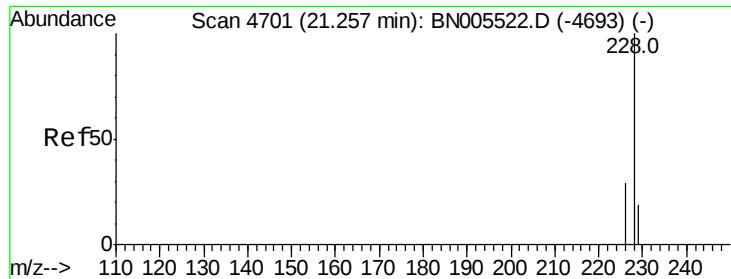
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#18  
Benzo(a)anthracene  
Concen: 0.466 ng/ul  
RT: 21.20 min Scan# 4680  
Delta R.T. -0.02 min  
Lab File: BN005525.D  
Acq: 07 May 2019 20:27

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 26.2  | 15.8       | 23.8# |
| 226     | 31.3  | 21.7       | 32.5  |





#19

Chrysene

Concen: 0.425 ng/ul

RT: 21.25 min Scan# 4698

Delta R.T. -0.02 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

Instrument :

BNA\_N

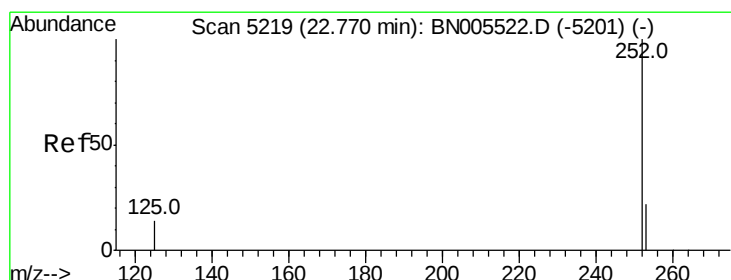
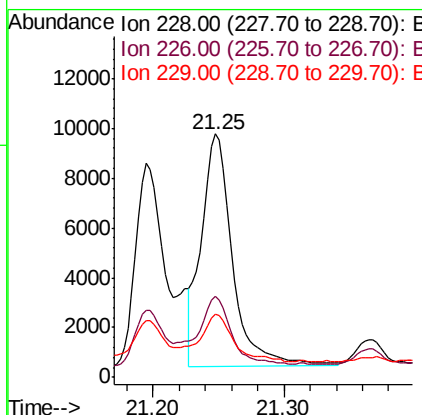
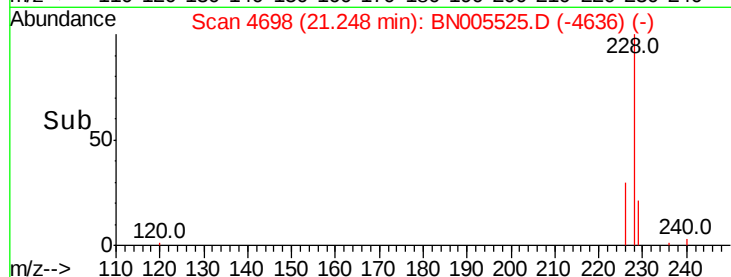
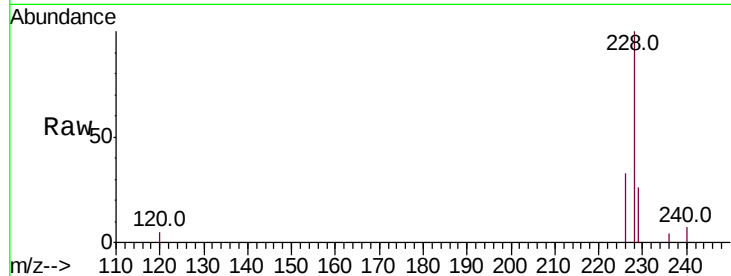
ClientSampleID :

A5101DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 15554 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 33.0  | 23.2  | 34.8  |
| 229       | 25.8  | 16.0  | 24.0# |

Manual Integrations  
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#21

Benzo(b)fluoranthene

Concen: 0.674 ng/ul m

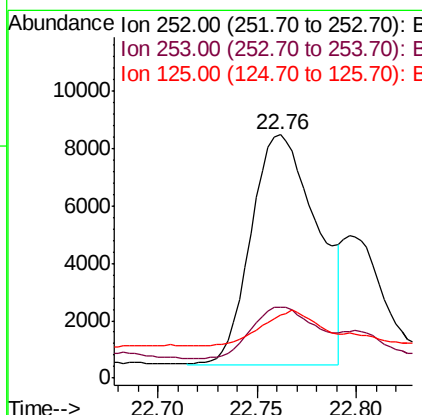
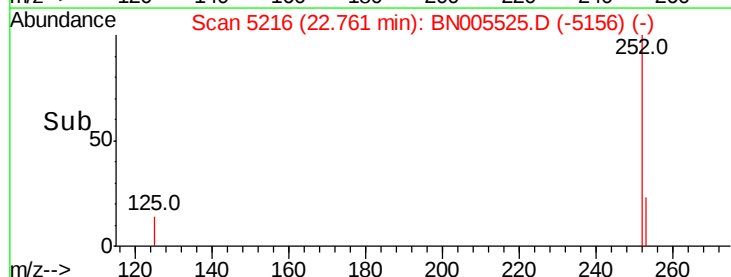
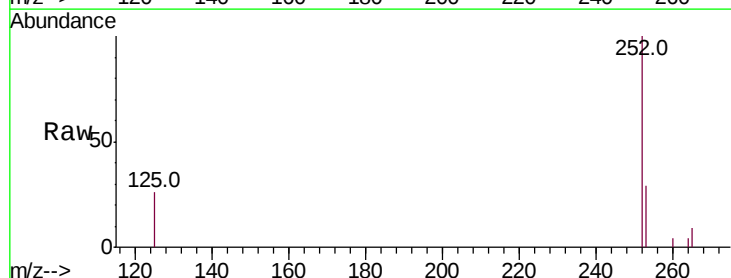
RT: 22.76 min Scan# 5216

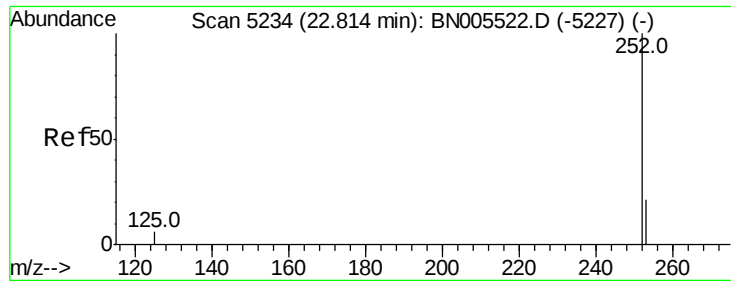
Delta R.T. -0.02 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 18536 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.1  | 0.0   | 47.6  |
| 125       | 26.2  | 0.0   | 20.8# |





#22

Benzo(k)fluoranthene

Concen: 0.232 ng/ul m

RT: 22.80 min Scan# 5228

Delta R.T. -0.03 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

Instrument :

BNA\_N

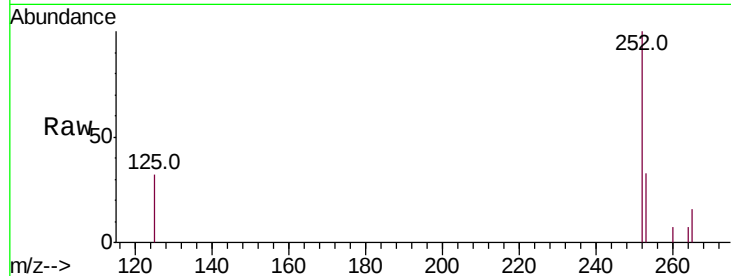
ClientSampled :

A5101DL

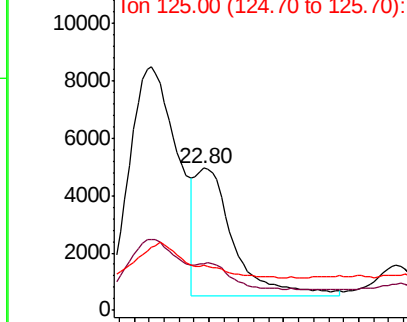
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 7988  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 32.9  | 18.8  | 28.2# |
| 125       | 31.5  | 7.6   | 11.4# |

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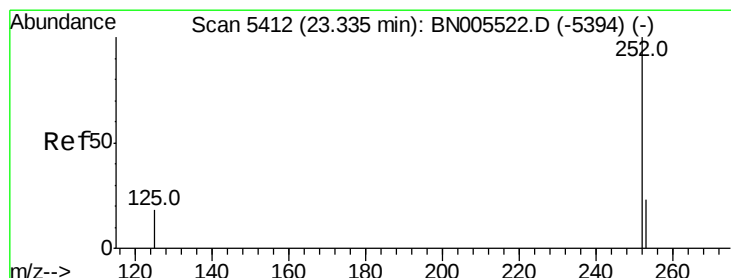
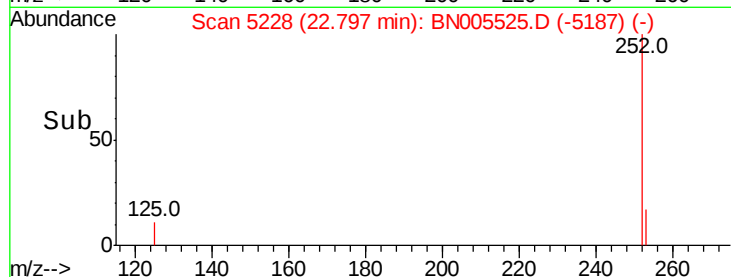
Sohil  
5/8/2019 6:27:16 AM



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



Time-->



#23

Benzo(a)pyrene

Concen: 0.349 ng/ul

RT: 23.32 min Scan# 5406

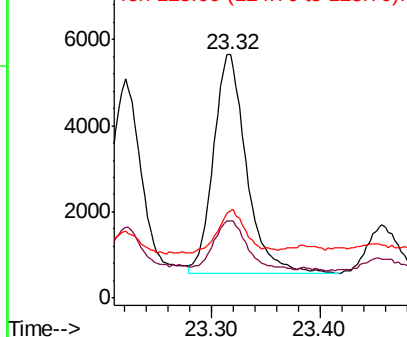
Delta R.T. -0.03 min

Lab File: BN005525.D

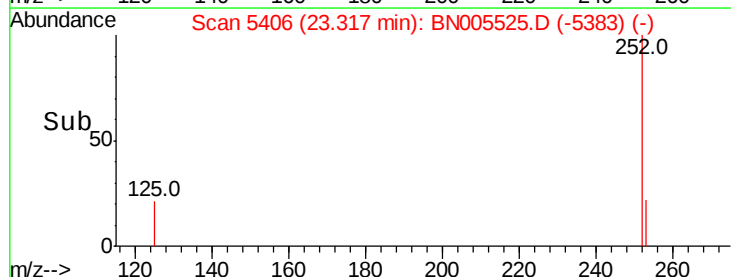
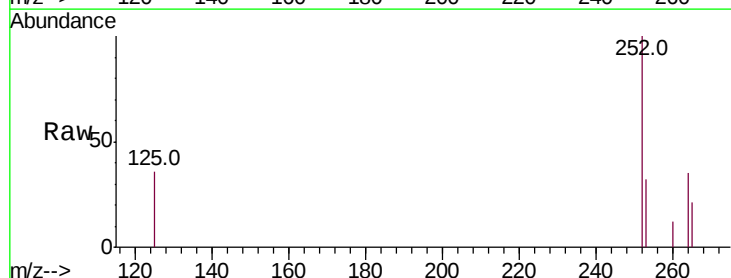
Acq: 07 May 2019 20:27

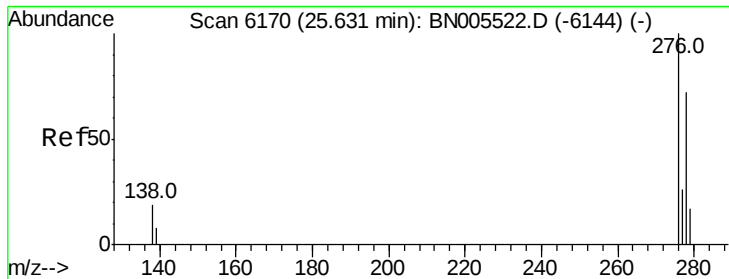
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 10743 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 31.9  | 19.6  | 29.4# |
| 125       | 35.9  | 10.1  | 15.1# |

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



Time-->





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.238 ng/ul

RT: 25.60 min Scan# 6161

Delta R.T. -0.05 min

Lab File: BN005525.D

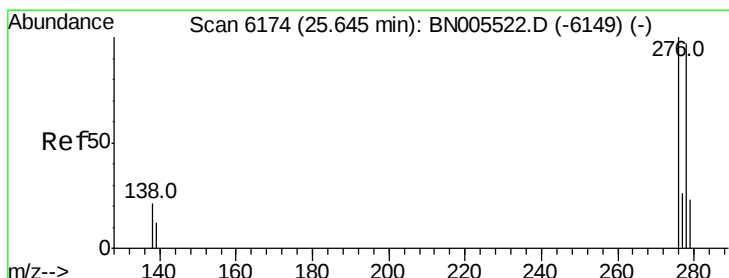
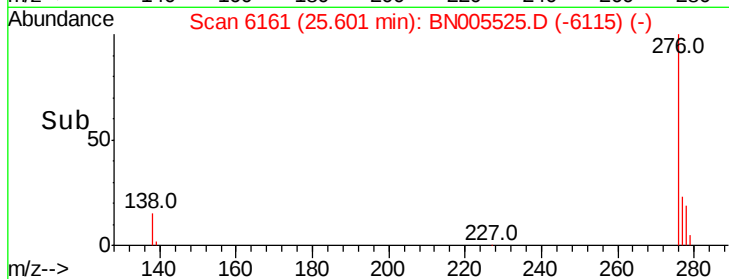
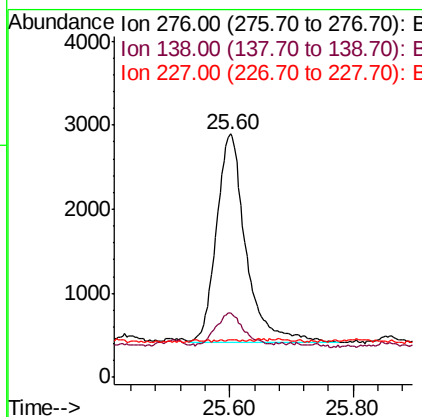
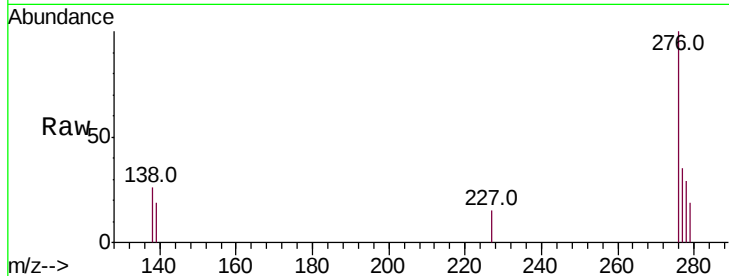
Acq: 07 May 2019 20:27

Instrument :  
BNA\_N  
ClientSampleId :  
A5101DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.0  | 15.8  | 23.8  |
| 227     | 0.4   | 0.1   | 0.1#  |

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#25

Dibenzo(a,h)anthracene

Concen: 0.067 ng/ul

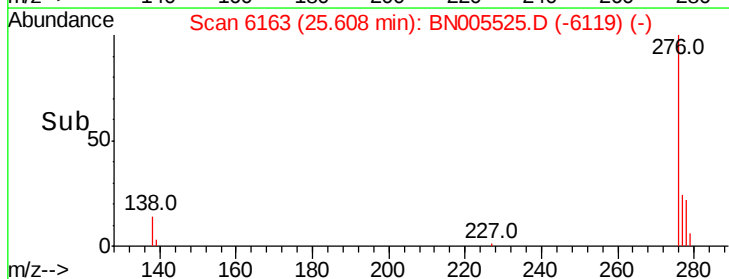
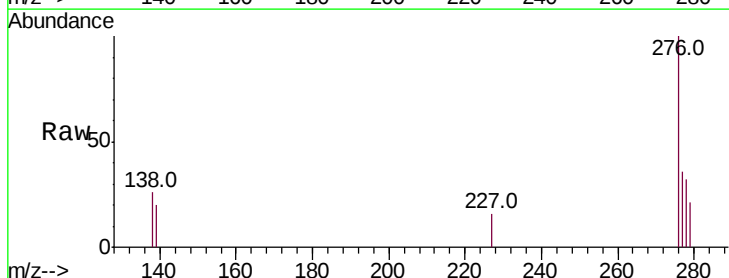
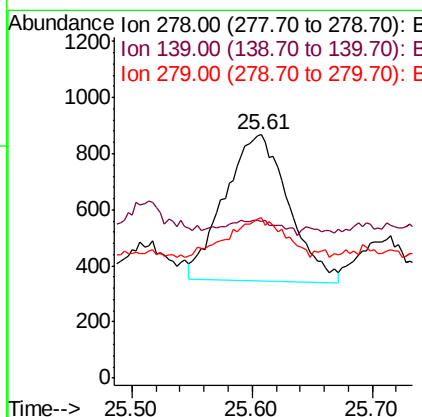
RT: 25.61 min Scan# 6163

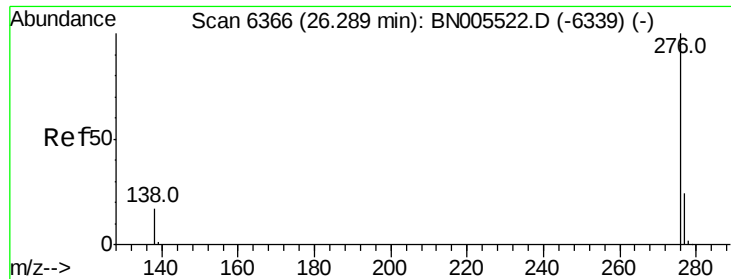
Delta R.T. -0.05 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 64.5  | 12.4  | 18.6# |
| 279     | 65.7  | 21.0  | 31.4# |





#26

Benzo(a,h,i)perylene

Concen: 0.212 ng/ul

RT: 26.26 min Scan# 6358

Delta R.T. -0.04 min

Lab File: BN005525.D

Acq: 07 May 2019 20:27

Instrument :

BNA\_N

ClientSampleId :

A5101DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 6225  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 29.8  | 15.6  | 23.4# |
| 277       | 38.2  | 20.6  | 31.0# |

Manual Integrations  
APPROVED

Sohil  
5/8/2019 6:27:16 AM

