

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111819\  
 Data File : BN008596.D  
 Acq On : 18 Nov 2019 10:29  
 Operator : JU  
 Sample : K5678-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM53

Manual Integrations  
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 11/19/2019 2:43:50 PM

Quant Time: Nov 18 11:29:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 15 22:41:33 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 2641     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.38 | 136  | 8992     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 5357     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.99 | 188  | 11656    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.19 | 240  | 10066    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.36 | 264  | 10112    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 2942     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.02 | 212  | 7497     | 0.21   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 10.43 | 128  | 19456    | 0.718  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.05 | 142  | 8709     | 0.460  | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.96 | 152  | 38150    | 1.288  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.31 | 153  | 5124     | 0.233  | ng/ul  | 98       |
| 9) Fluorene                 | 15.30 | 166  | 9718     | 0.377  | ng/ul# | 94       |
| 11) Pentachlorophenol       | 16.65 | 266  | 325      | 0.074  | ng/ul# | 88       |
| 12) Phenanthrene            | 17.03 | 178  | 279403   | 7.108  | ng/ul  | 98       |
| 13) Anthracene              | 17.12 | 178  | 28450    | 0.766  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.05 | 202  | 468338   | 9.697  | ng/ul  | 99       |
| 17) Pyrene                  | 19.41 | 202  | 443662   | 10.986 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.17 | 228  | 152684   | 3.772  | ng/ul  | 94       |
| 19) Chrysene                | 21.22 | 228  | 217616   | 5.473  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.72 | 252  | 267961m  | 6.426  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.76 | 252  | 85475m   | 2.067  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.27 | 252  | 189163   | 4.833  | ng/ul  | 94       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 135785   | 2.966  | ng/ul# | 88       |
| 25) Dibenzo(a,h)anthracene  | 25.52 | 278  | 29997    | 0.811  | ng/ul# | 81       |
| 26) Benzo(g,h,i)perylene    | 26.16 | 276  | 141147   | 3.686  | ng/ul  | 98       |

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

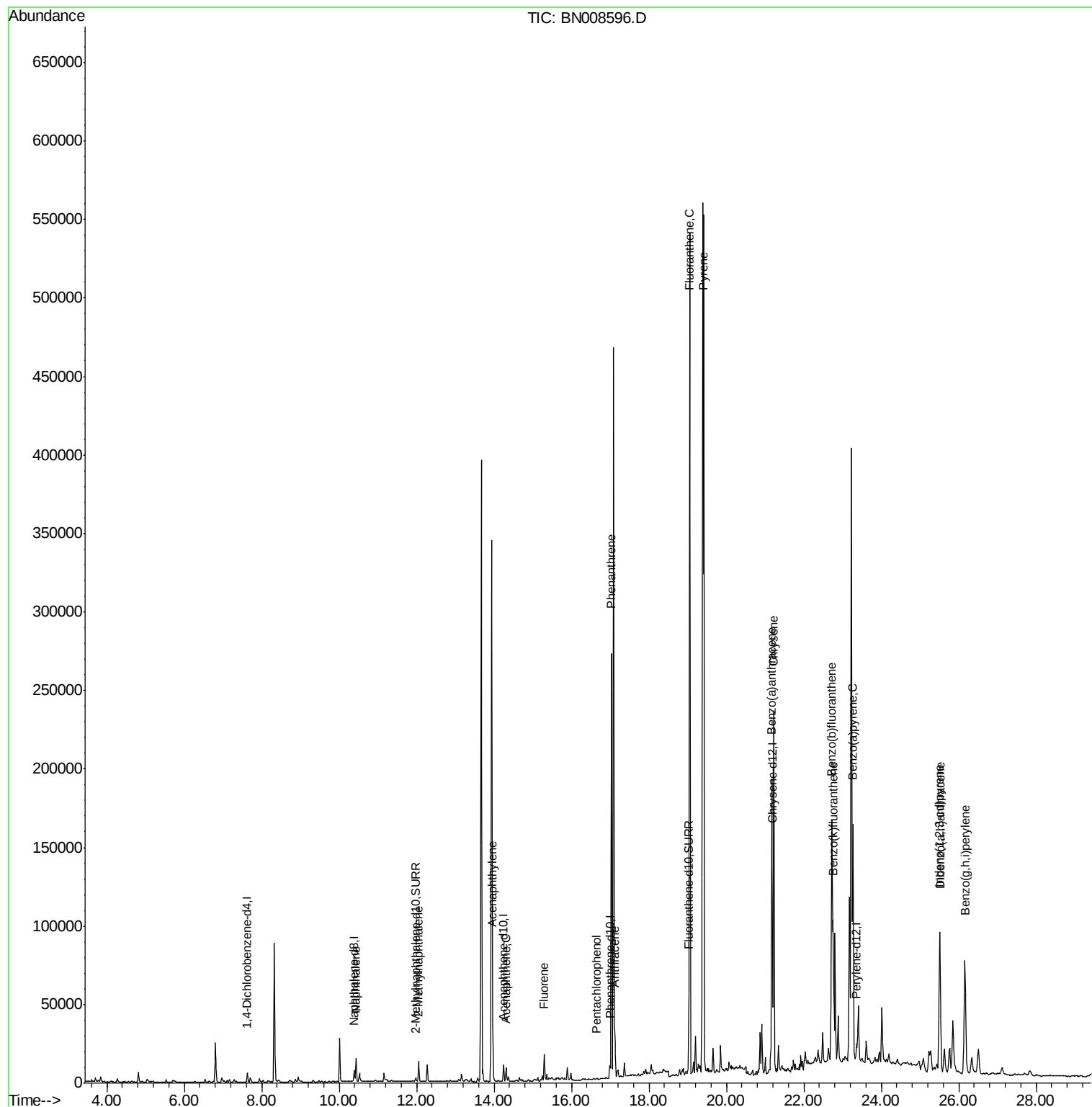
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111819\  
Data File : BN008596.D  
Acq On : 18 Nov 2019 10:29  
Operator : JU  
Sample : K5678-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

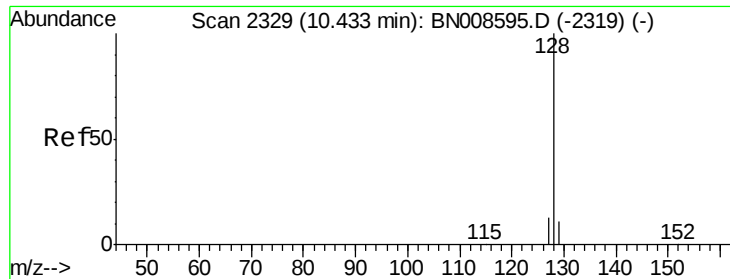
Instrument :  
BNA\_N  
ClientSampleId :  
JLM53

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Quant Time: Nov 18 11:29:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 15 22:41:33 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.718 ng/ul

RT: 10.43 min Scan# 2329

Delta R.T. -0.01 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

Instrument :

BNA\_N

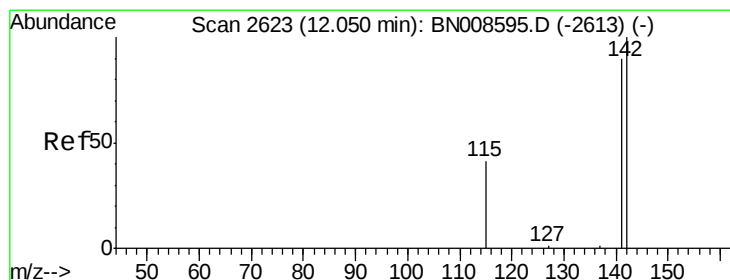
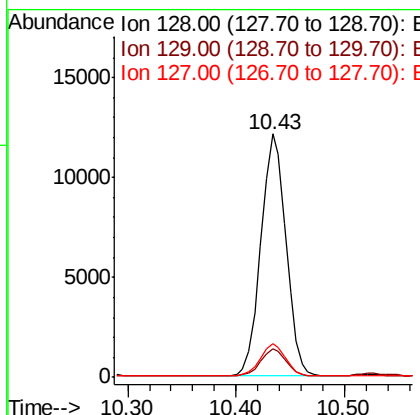
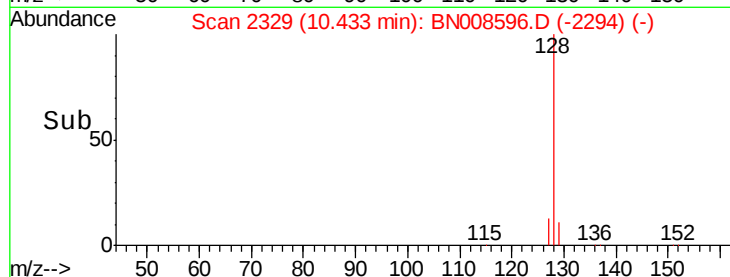
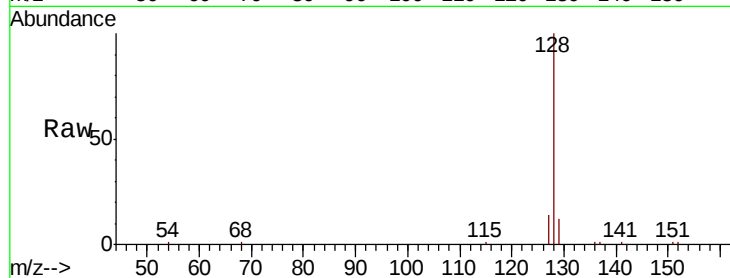
ClientSampleId :

JLM53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 19456 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.6  | 9.7   | 14.5  |
| 127       | 13.7  | 10.8  | 16.2  |

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#5

2-Methylnaphthalene

Concen: 0.460 ng/ul

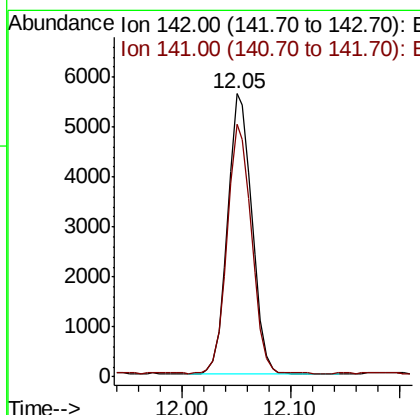
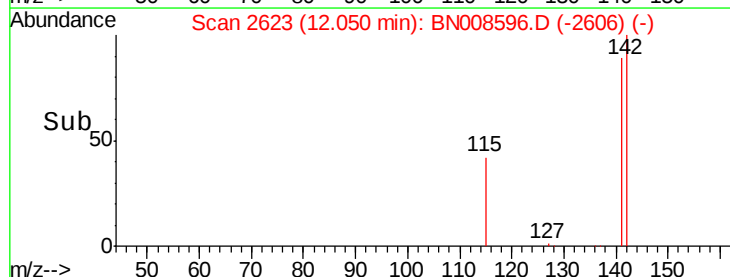
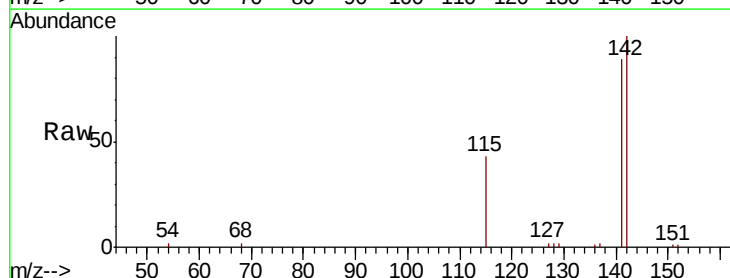
RT: 12.05 min Scan# 2623

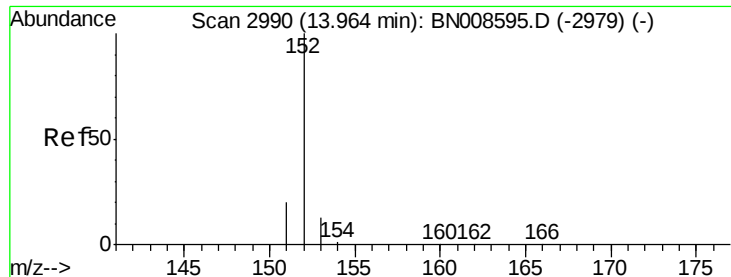
Delta R.T. -0.01 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 8709  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.5  | 70.5  | 105.7 |





#7

Acenaphthylene

Concen: 1.288 ng/ul

RT: 13.96 min Scan# 2990

Delta R.T. -0.00 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

Instrument :

BNA\_N

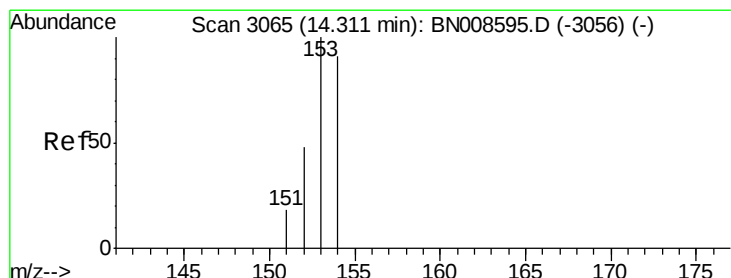
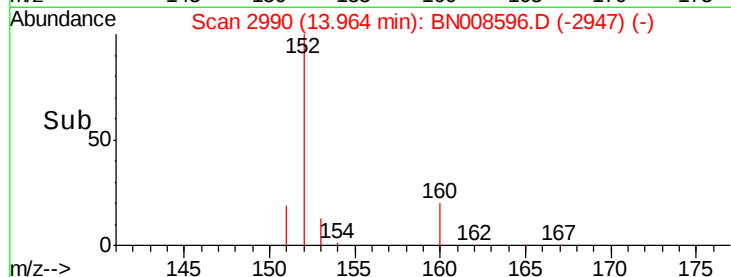
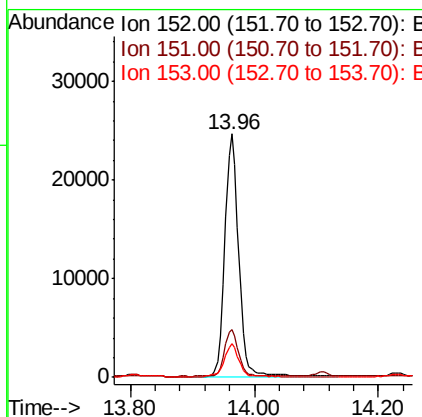
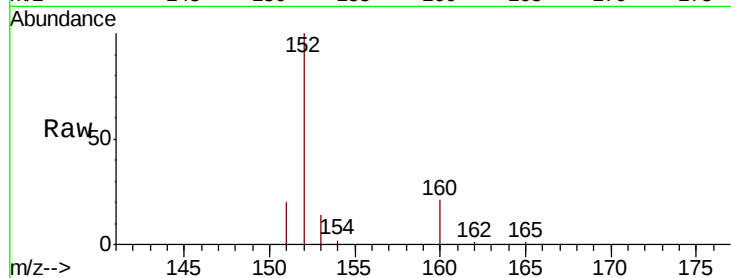
ClientSampleId :

JLM53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 38150 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.8  | 16.6  | 24.8  |
| 153       | 13.7  | 11.1  | 16.7  |

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#8

Acenaphthene

Concen: 0.233 ng/ul

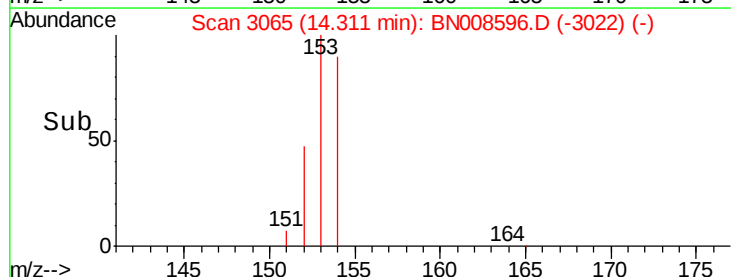
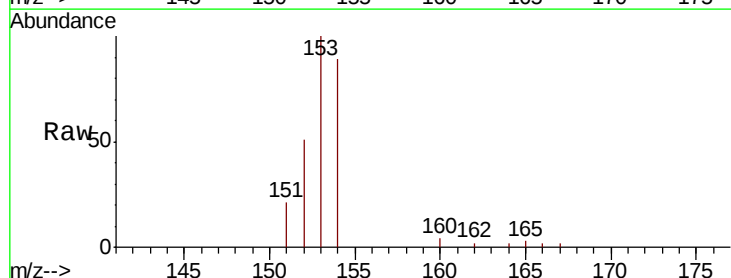
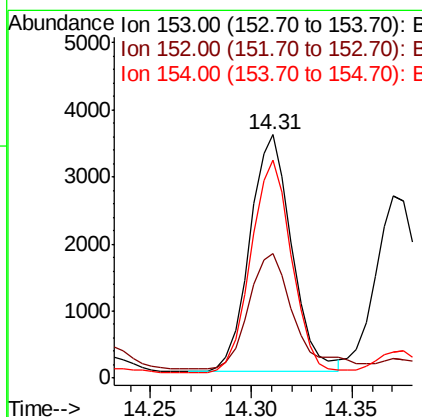
RT: 14.31 min Scan# 3065

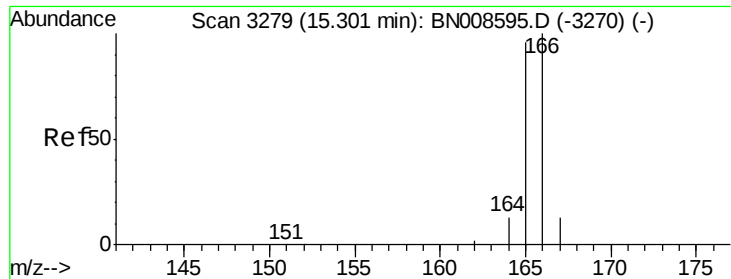
Delta R.T. -0.00 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 5124  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 51.3  | 39.6  | 59.4  |
| 154       | 89.4  | 70.6  | 106.0 |





#9

Fluorene

Concen: 0.377 ng/ul

RT: 15.30 min Scan# 3279

Delta R.T. -0.00 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

Instrument :

BNA\_N

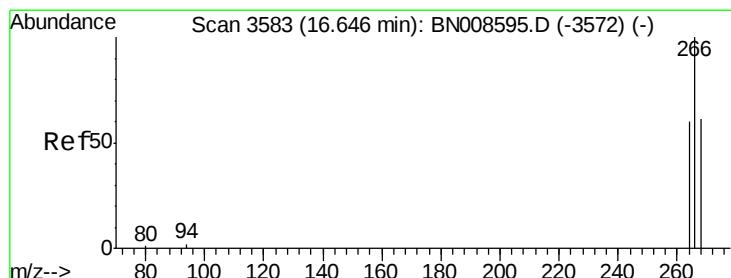
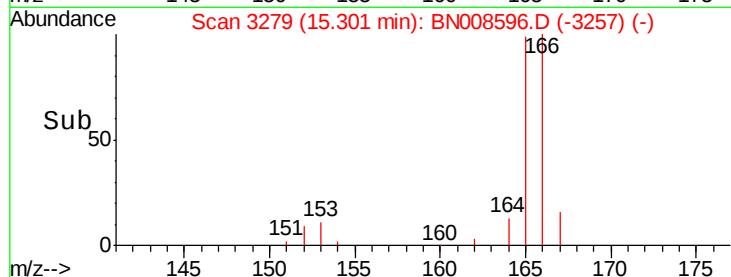
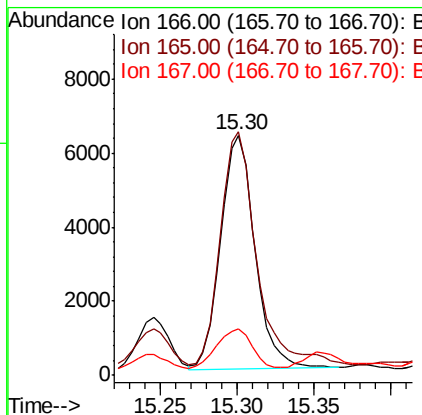
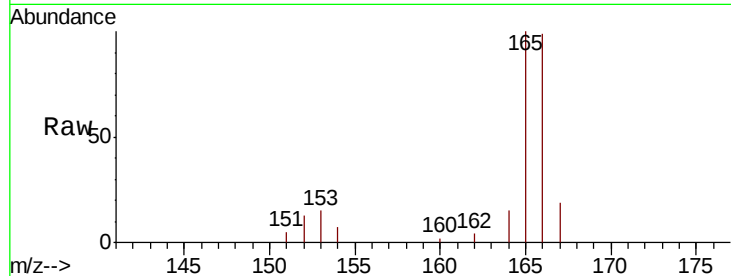
ClientSampleId :

JLM53

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 166     | 100   |       |       |       |       |
| 165     | 101.3 | 77.4  | 116.0 |       |       |
| 167     | 19.3  | 11.4  | 17.0  |       |       |

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#11

Pentachlorophenol

Concen: 0.074 ng/ul

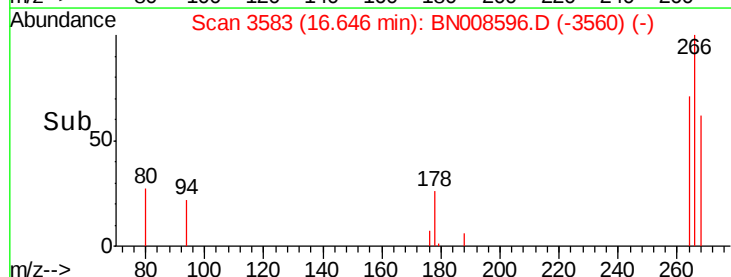
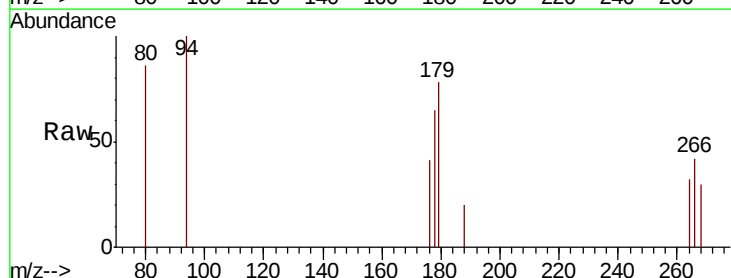
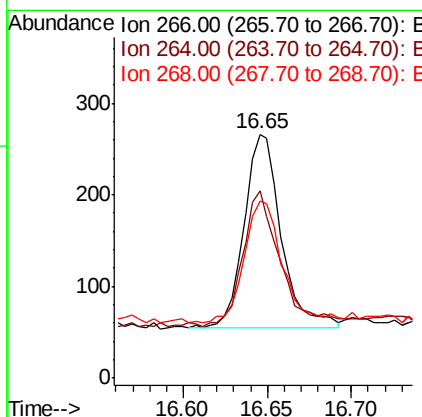
RT: 16.65 min Scan# 3583

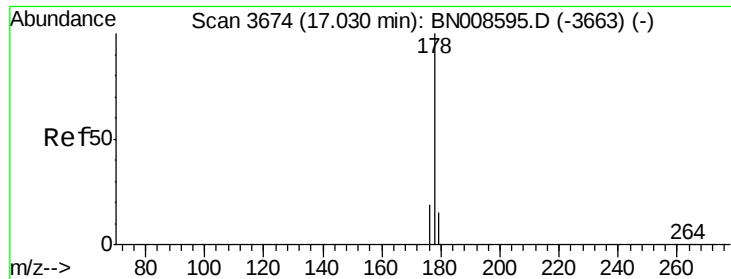
Delta R.T. -0.00 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 266     | 100  |       |      |       |       |
| 264     | 78.2 | 49.2  | 73.8 |       |       |
| 268     | 65.2 | 50.9  | 76.3 |       |       |





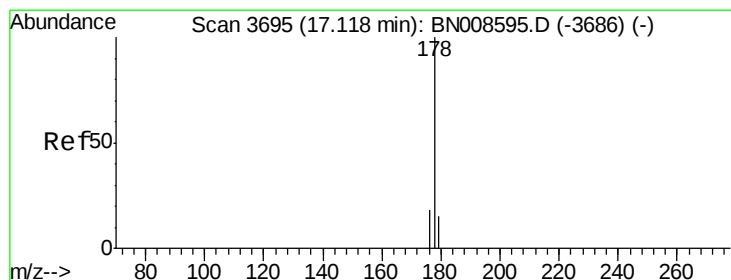
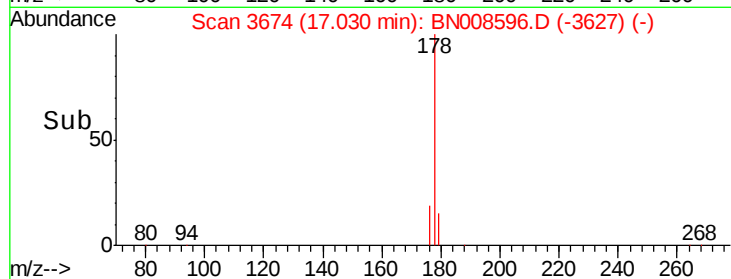
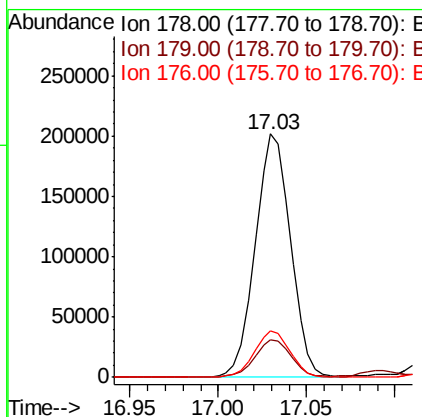
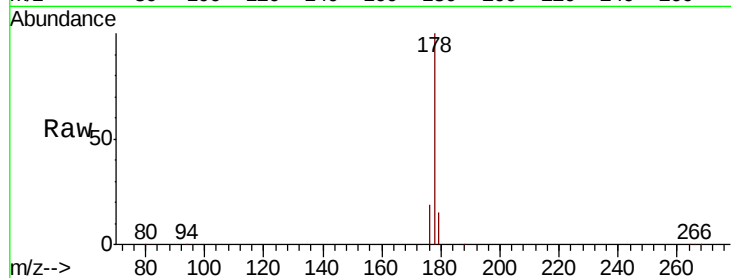
#12  
Phenanthrene  
Concen: 7.108 ng/ul  
RT: 17.03 min Scan# 3674  
Delta R.T. -0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

Instrument :  
BNA\_N  
ClientSampleId :  
JLM53

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.8  | 19.2  |
| 176     | 19.2  | 16.0  | 24.0  |

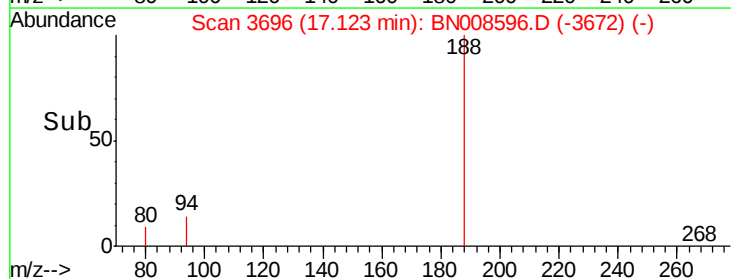
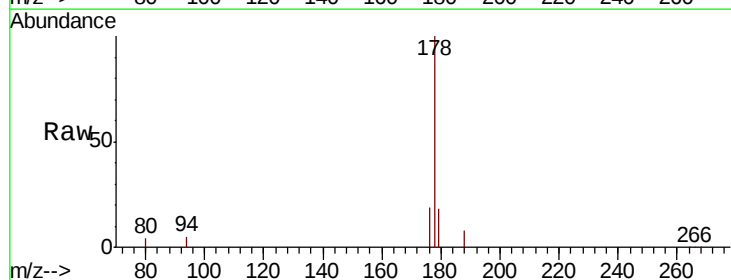
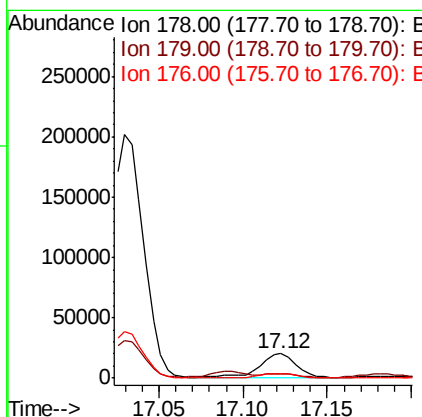
Manual Integrations  
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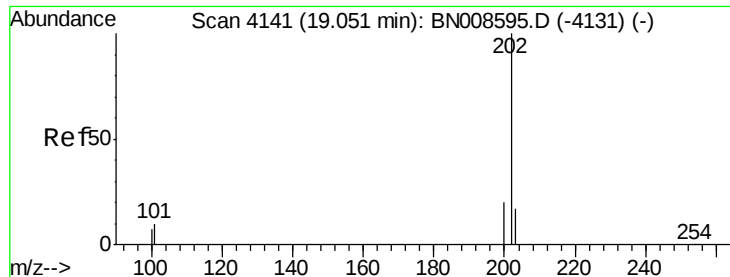
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#13  
Anthracene  
Concen: 0.766 ng/ul  
RT: 17.12 min Scan# 3696  
Delta R.T. -0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.3  | 13.0  | 19.4  |
| 176     | 19.3  | 15.3  | 22.9  |





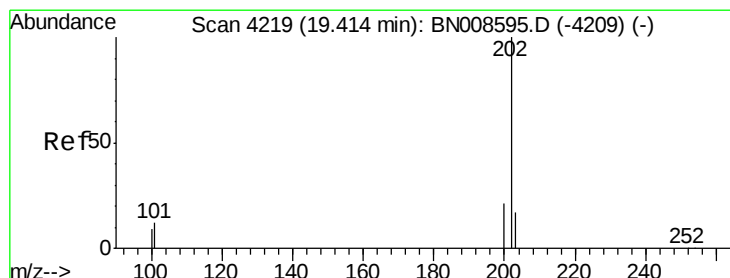
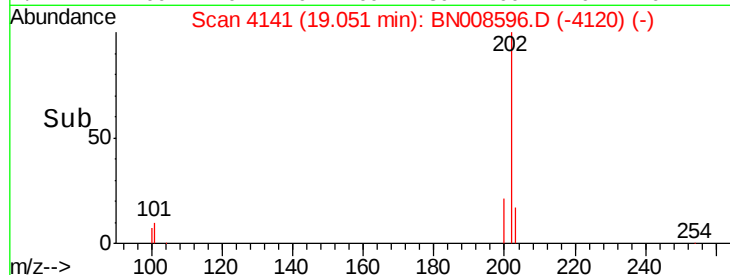
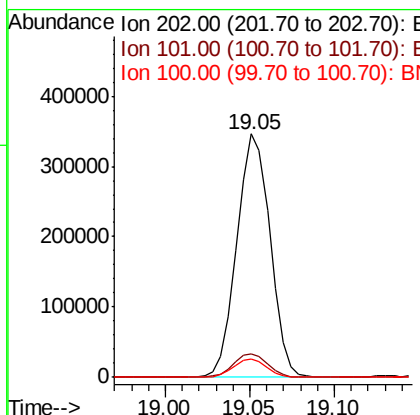
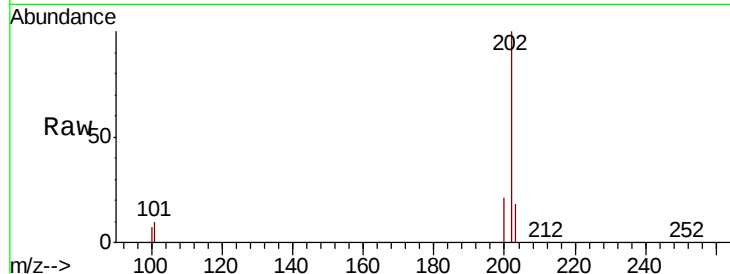
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**Fluoranthene**  
 Concen: 9.697 ng/ul  
 RT: 19.05 min Scan# 4141  
 Delta R.T. -0.00 min  
 Lab File: BN008596.D  
 Acq: 18 Nov 2019 10:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM53

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.9   | 0.0        | 29.6  |
| 100     | 7.4   | 0.0        | 27.0  |

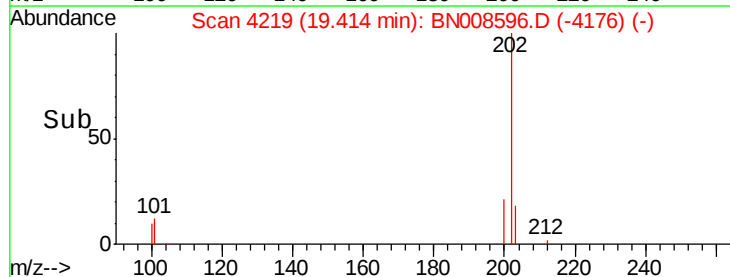
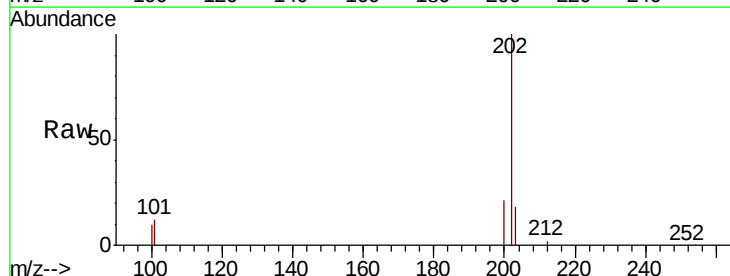
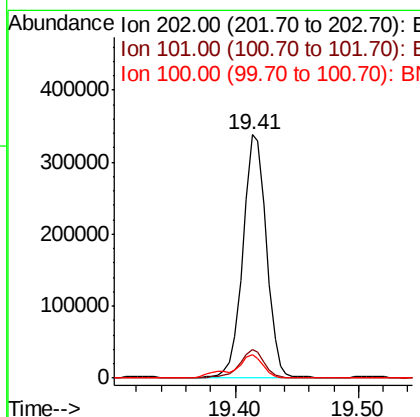
Manual Integrations  
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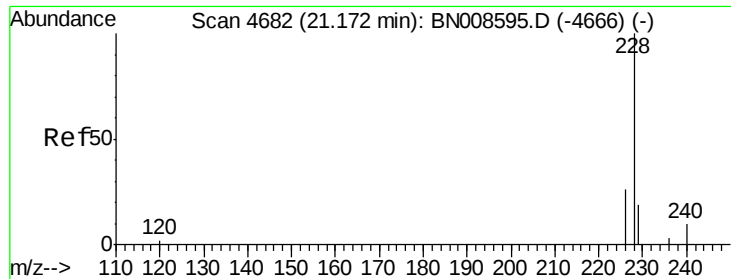
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#17  
**Pyrene**  
 Concen: 10.986 ng/ul  
 RT: 19.41 min Scan# 4219  
 Delta R.T. -0.00 min  
 Lab File: BN008596.D  
 Acq: 18 Nov 2019 10:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.9  | 10.2       | 15.2  |
| 100     | 9.6   | 8.2        | 12.2  |





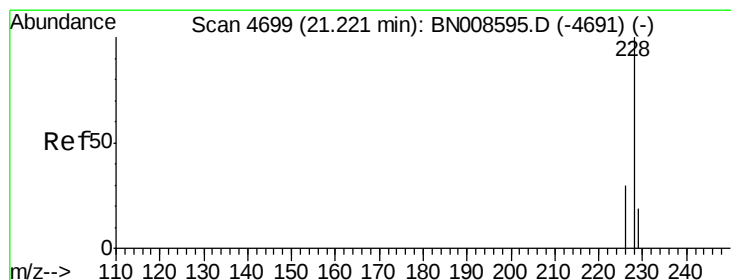
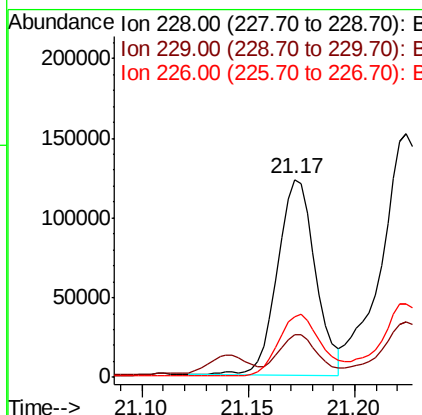
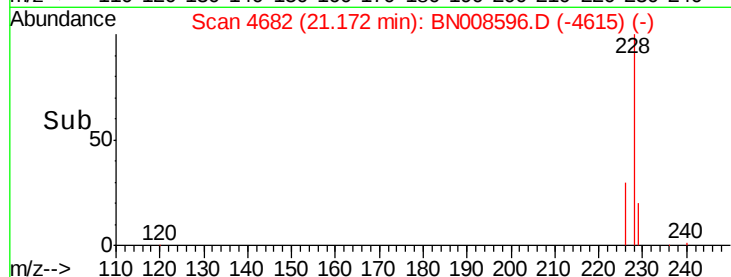
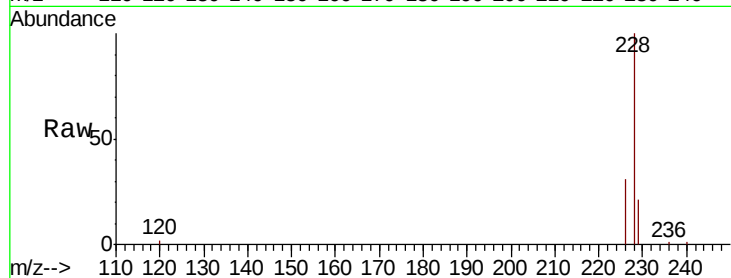
#18  
Benzo(a)anthracene  
Concen: 3.772 ng/ul  
RT: 21.17 min Scan# 4682  
Delta R.T. -0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

Instrument :  
BNA\_N  
ClientSampleId :  
JLM53

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.5  | 15.8  | 23.6  |
| 226     | 30.5  | 21.6  | 32.4  |

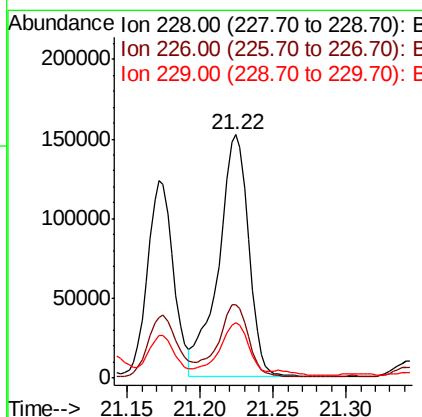
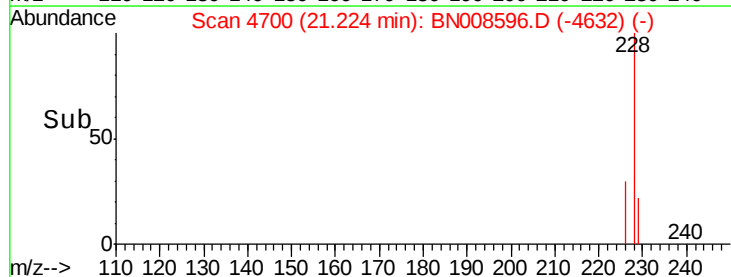
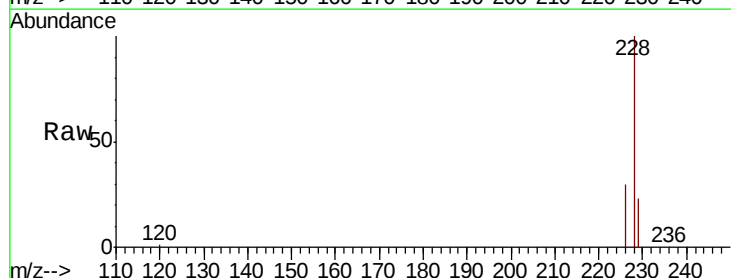
Manual Integrations  
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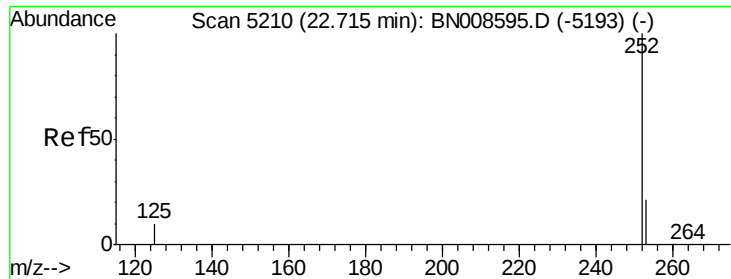
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#19  
Chrysene  
Concen: 5.473 ng/ul  
RT: 21.22 min Scan# 4700  
Delta R.T. -0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 24.5  | 36.7  |
| 229     | 22.8  | 15.5  | 23.3  |





#21

Benzo(b)fluoranthene

Concen: 6.426 ng/ul m

RT: 22.72 min Scan# 5212

Delta R.T. 0.00 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

Instrument :

BNA\_N

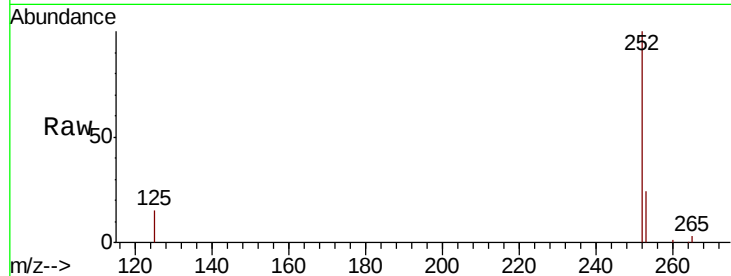
ClientSampleId :

JLM53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 267961 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 0.0   | 50.2   |
| 125       | 14.7  | 0.0   | 30.0   |

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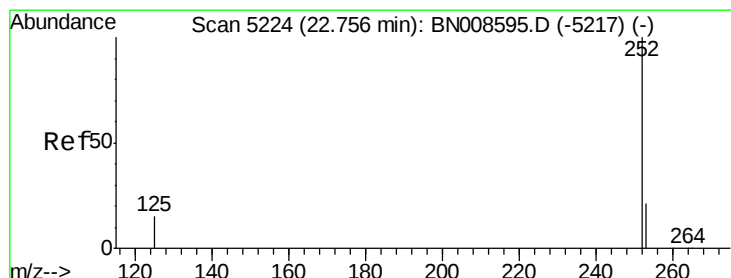
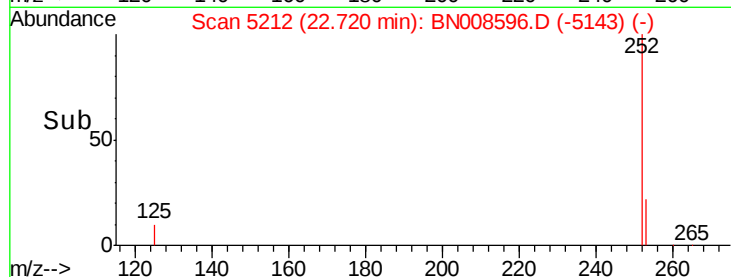
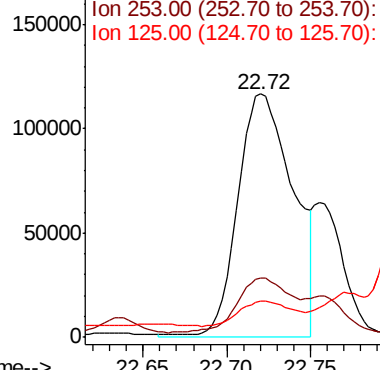


Abundance

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



#22

Benzo(k)fluoranthene

Concen: 2.067 ng/ul m

RT: 22.76 min Scan# 5224

Delta R.T. -0.00 min

Lab File: BN008596.D

Acq: 18 Nov 2019 10:29

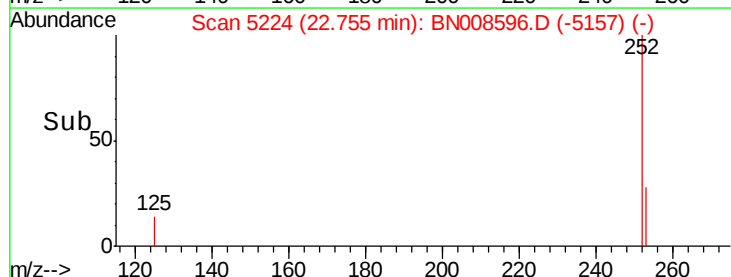
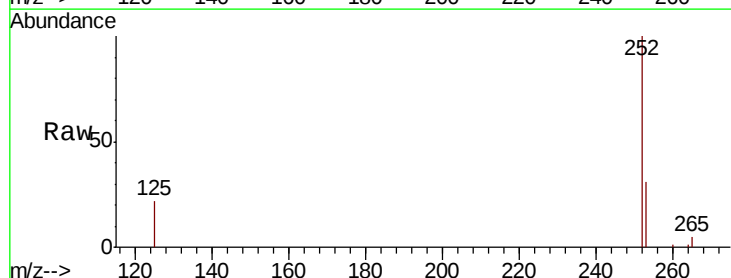
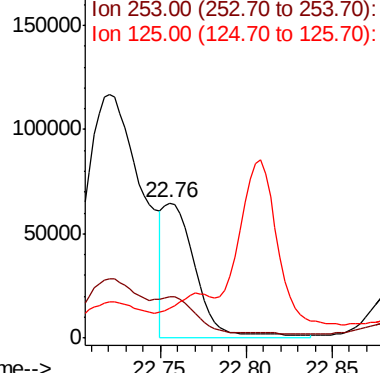
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 85475 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.6  | 20.5  | 30.7  |
| 125       | 21.7  | 15.0  | 22.4  |

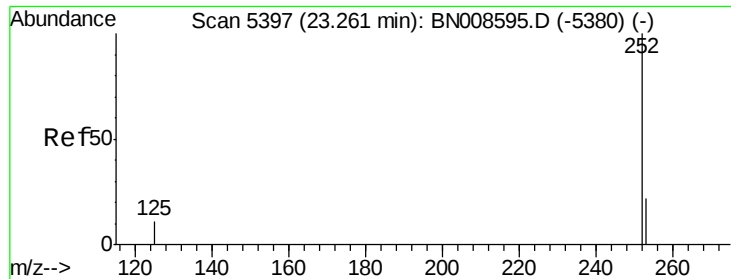
Abundance

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





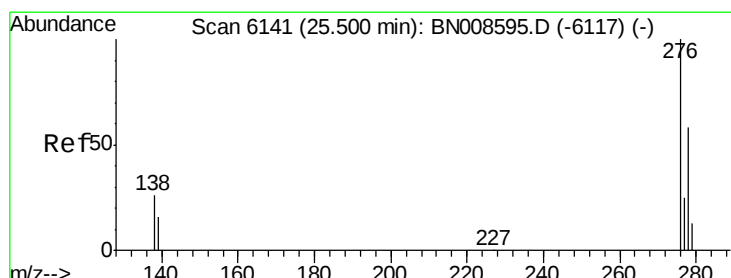
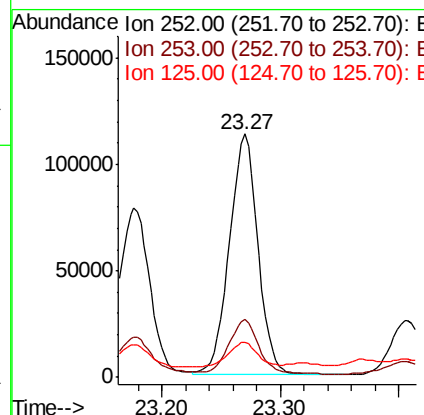
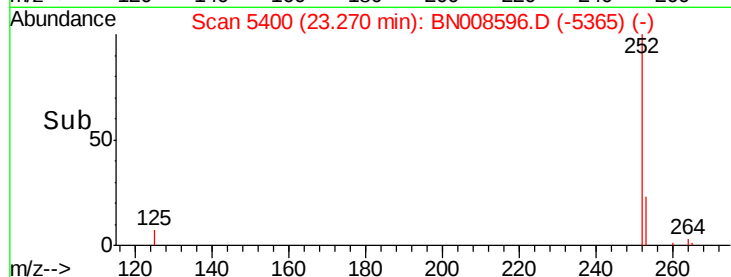
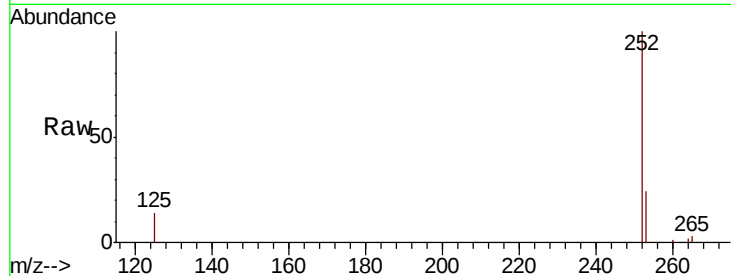
#23  
Benzo(a)pyrene  
Concen: 4.833 ng/uL  
RT: 23.27 min Scan# 5400  
Delta R.T. 0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

Instrument :  
BNA\_N  
ClientSampleId :  
JLM53

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 189163 |       |       |
| 253     | 23.7  |        | 21.4  | 32.2  |
| 125     | 14.4  |        | 13.8  | 20.8  |

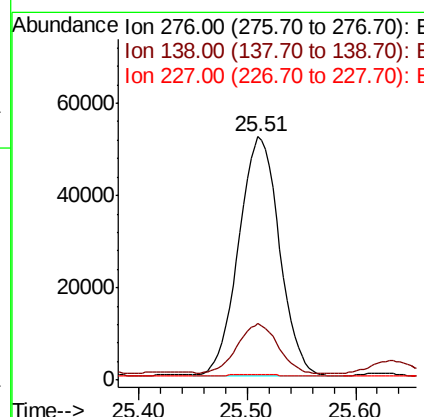
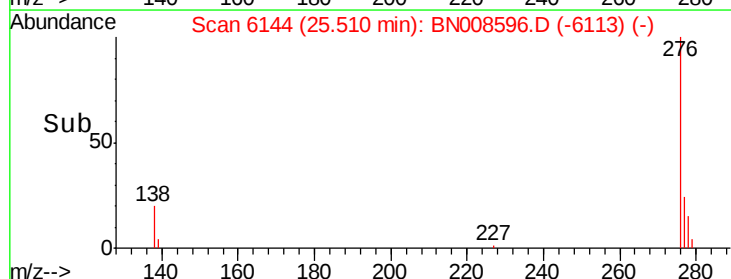
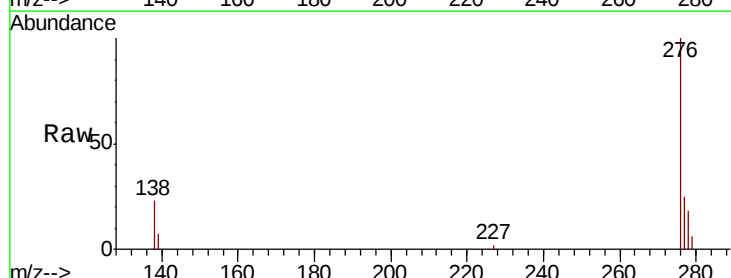
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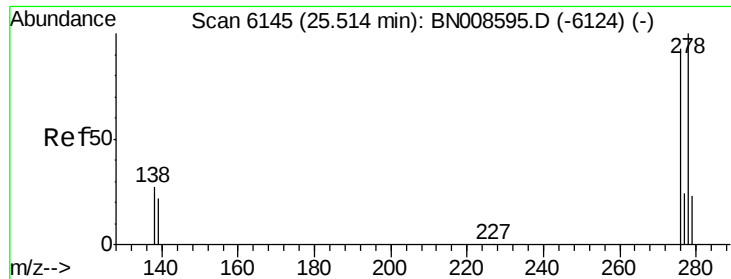
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 2.966 ng/uL  
RT: 25.51 min Scan# 6144  
Delta R.T. 0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 135785 |       |       |
| 138     | 21.0  |        | 21.7  | 32.5# |
| 227     | 1.0   |        | 0.2   | 0.2#  |





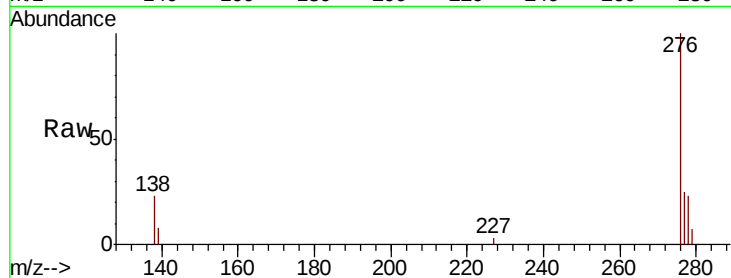
#25  
Dibenzo(a,h)anthracene  
Concen: 0.811 ng/ul  
RT: 25.52 min Scan# 6147  
Delta R.T. -0.00 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

Instrument :  
BNA\_N  
ClientSampleId :  
JLM53

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 36.6  | 18.7  | 28.1# |
| 279     | 32.4  | 20.8  | 31.2# |

Manual Integrations  
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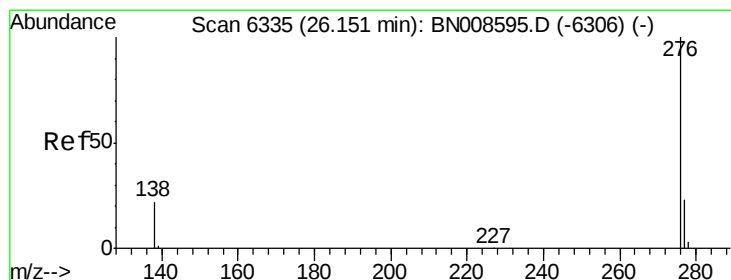
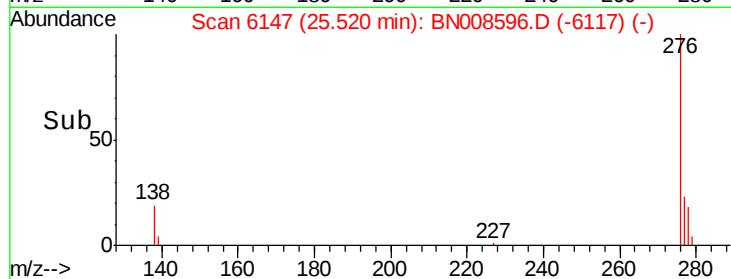
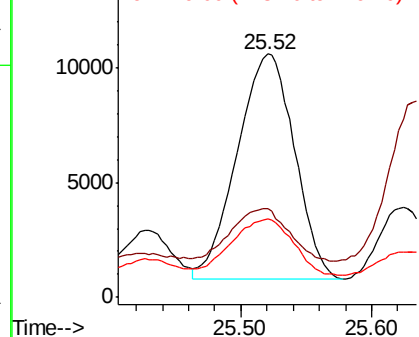


Abundance

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: 3.686 ng/ul  
RT: 26.16 min Scan# 6338  
Delta R.T. 0.01 min  
Lab File: BN008596.D  
Acq: 18 Nov 2019 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.5  | 20.0  | 30.0  |
| 277     | 24.6  | 20.0  | 30.0  |

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

