

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111819\  
 Data File : BN008598.D  
 Acq On : 18 Nov 2019 11:42  
 Operator : JU  
 Sample : K5678-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM61

Manual Integrations  
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 11/19/2019 2:43:53 PM

Quant Time: Nov 18 12:13:53 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  | 2884     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 10122    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 5996     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.99 | 188  | 12221    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.19 | 240  | 10236    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.37 | 264  | 10410    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 3259     | 0.20   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.02 | 212  | 7810     | 0.21   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.43 | 128  | 11009    | 0.361  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.06 | 142  | 9636     | 0.452  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.97 | 152  | 4357     | 0.131  | ng/ul# | 84       |
| 8) Acenaphthene             | 14.31 | 153  | 1327     | 0.054  | ng/ul# | 92       |
| 9) Fluorene                 | 15.30 | 166  | 1899     | 0.066  | ng/ul# | 55       |
| 11) Pentachlorophenol       | 16.65 | 266  | 1365     | 0.295  | ng/ul  | 97       |
| 12) Phenanthrene            | 17.03 | 178  | 24904    | 0.604  | ng/ul# | 95       |
| 13) Anthracene              | 17.12 | 178  | 4030     | 0.103  | ng/ul# | 62       |
| 15) Fluoranthene            | 19.06 | 202  | 39604    | 0.782  | ng/ul  | 98       |
| 17) Pyrene                  | 19.42 | 202  | 47801    | 1.164  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.17 | 228  | 18977    | 0.461  | ng/ul# | 70       |
| 19) Chrysene                | 21.23 | 228  | 32872    | 0.813  | ng/ul# | 83       |
| 21) Benzo(b)fluoranthene    | 22.72 | 252  | 33373m   | 0.777  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.76 | 252  | 10392m   | 0.244  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.27 | 252  | 27939    | 0.693  | ng/ul# | 10       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.52 | 276  | 18506    | 0.393  | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 25.53 | 278  | 6190     | 0.163  | ng/ul# | 1        |
| 26) Benzo(g,h,i)perylene    | 26.17 | 276  | 30838    | 0.782  | ng/ul# | 77       |

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

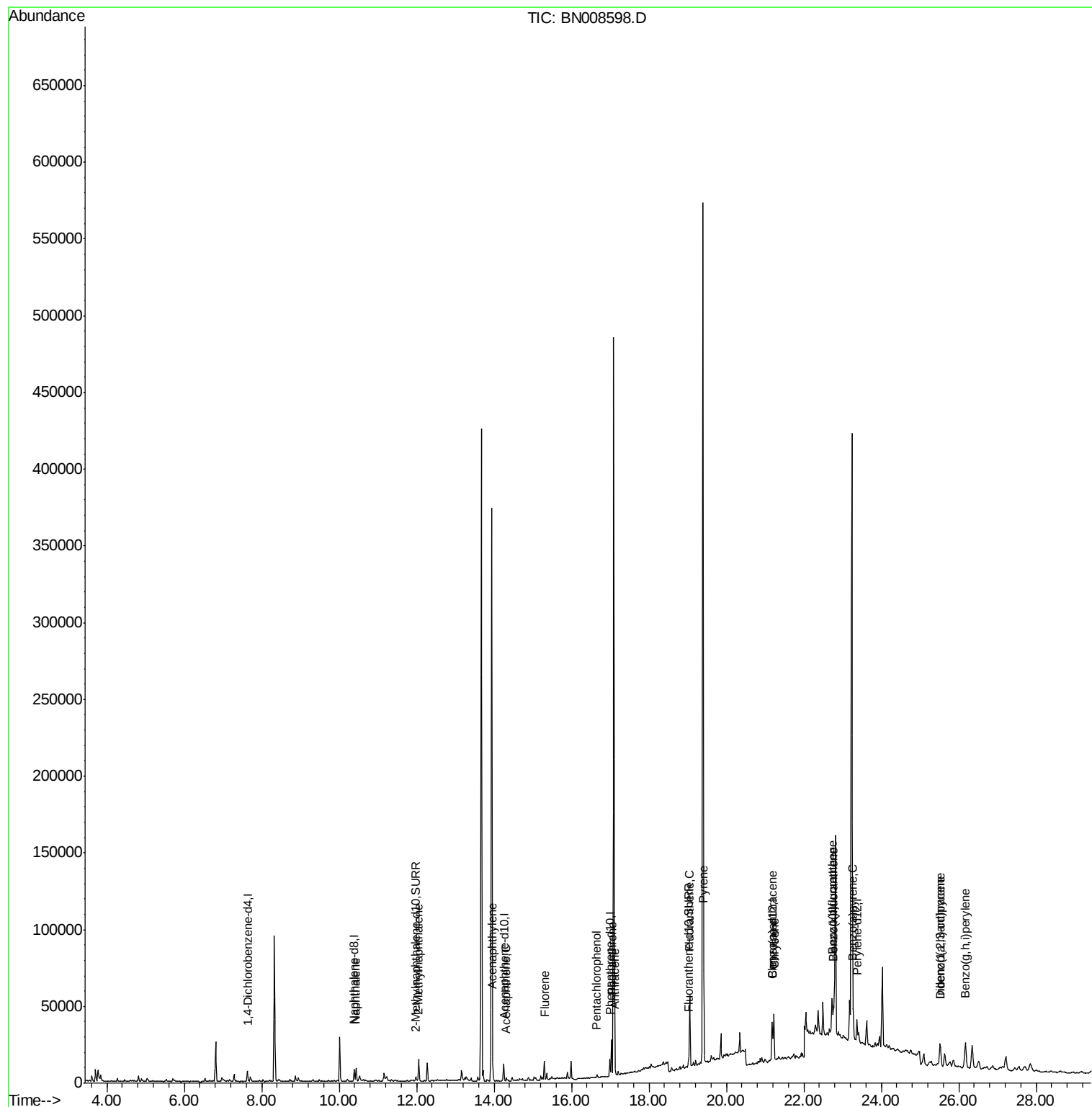
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111819\  
Data File : BN008598.D  
Acq On : 18 Nov 2019 11:42  
Operator : JU  
Sample : K5678-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

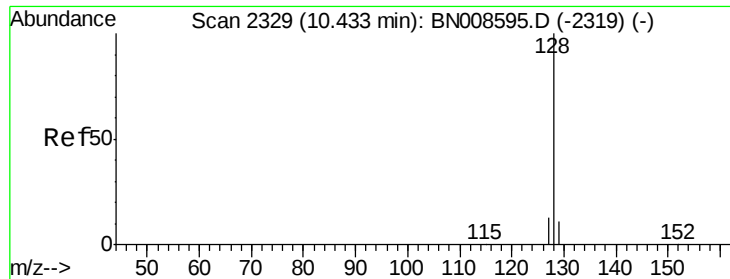
Instrument :  
BNA\_N  
ClientSampleId :  
JLM61

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Quant Time: Nov 18 12:13:53 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: 0.361 ng/ul

RT: 10.43 min Scan# 2329

Delta R.T. -0.01 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

Instrument :

BNA\_N

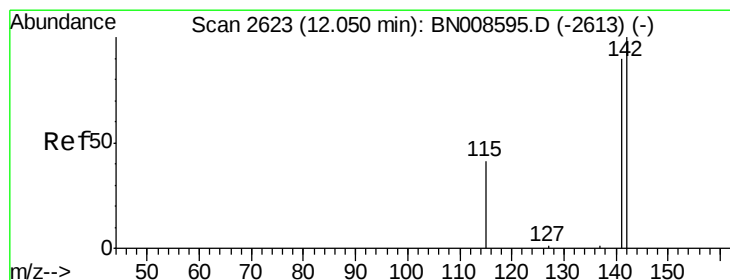
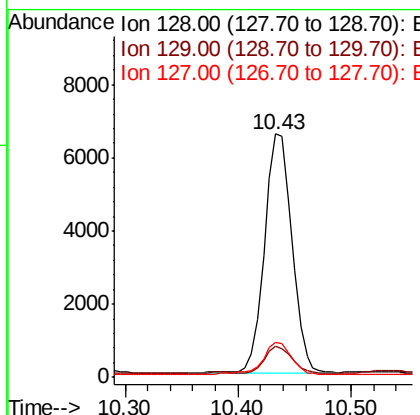
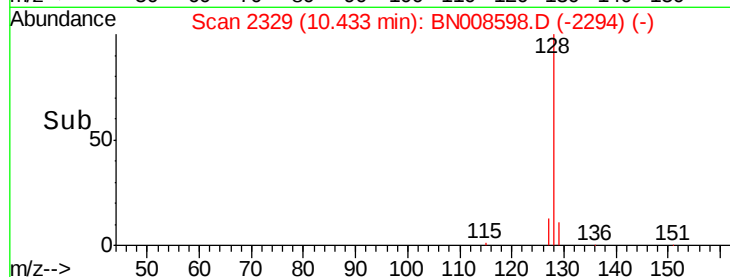
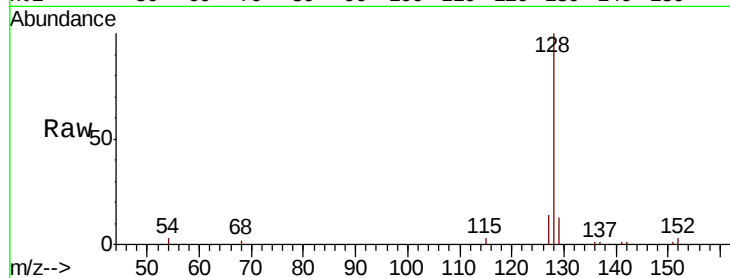
ClientSampleId :

JLM61

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 11009 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.6  | 9.7   | 14.5  |
| 127      | 14.2  | 10.8  | 16.2  |

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#5

2-Methylnaphthalene

Concen: 0.452 ng/ul

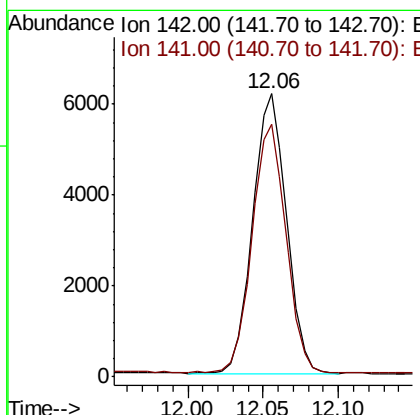
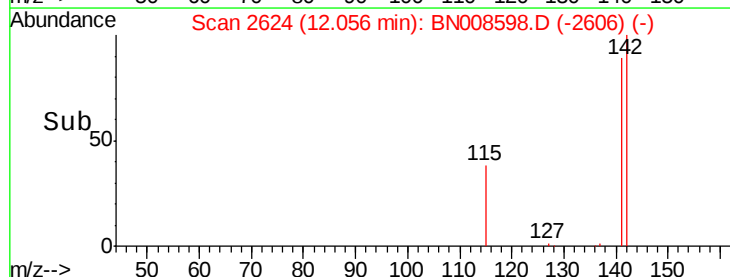
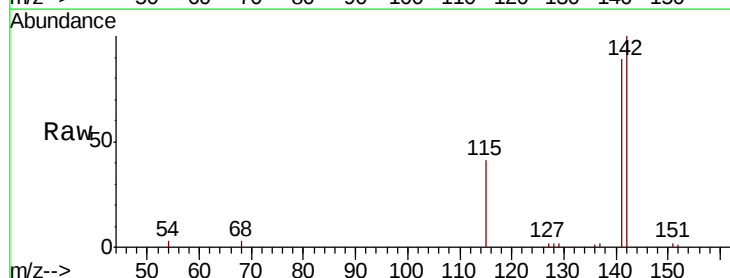
RT: 12.06 min Scan# 2624

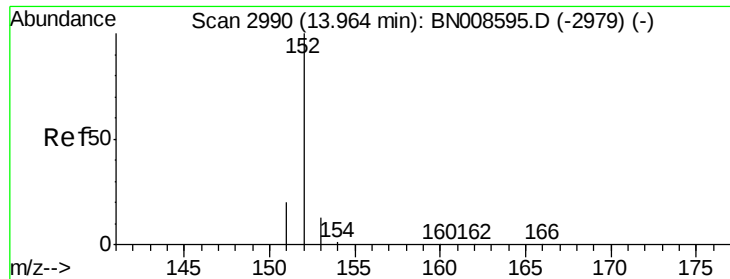
Delta R.T. -0.00 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 9636  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 89.7  | 70.5  | 105.7 |





#7

Acenaphthylene

Concen: 0.131 ng/ul

RT: 13.97 min Scan# 2991

Delta R.T. 0.00 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

Instrument :

BNA\_N

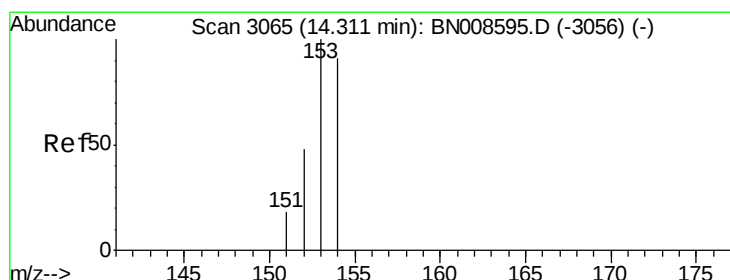
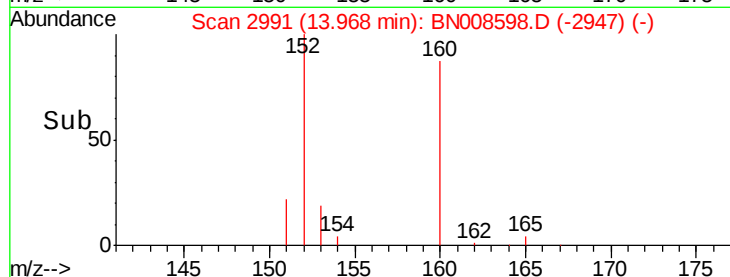
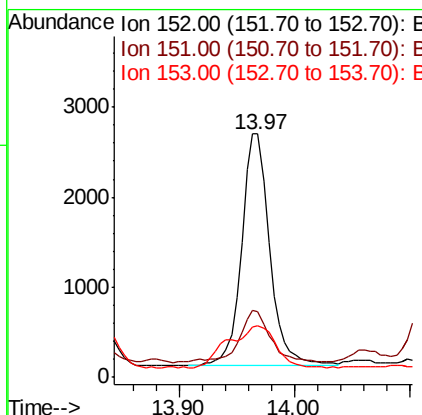
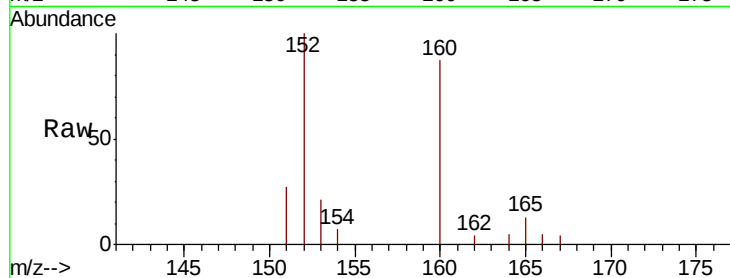
ClientSampleId :

JLM61

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 4357  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 27.0  | 16.6  | 24.8# |
| 153       | 21.4  | 11.1  | 16.7# |

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#8

Acenaphthene

Concen: 0.054 ng/ul

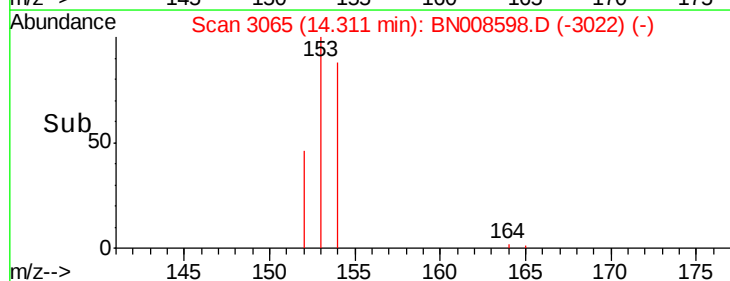
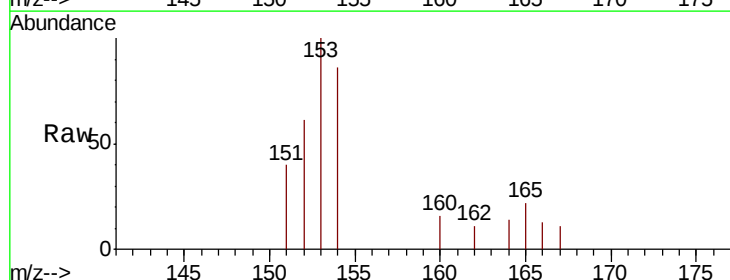
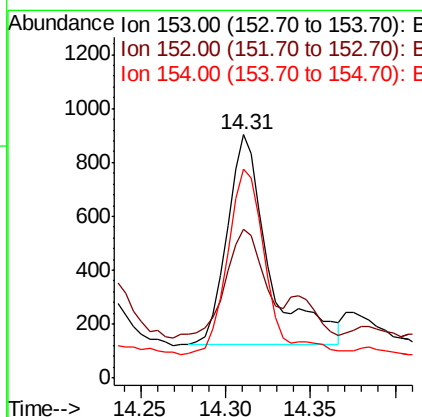
RT: 14.31 min Scan# 3065

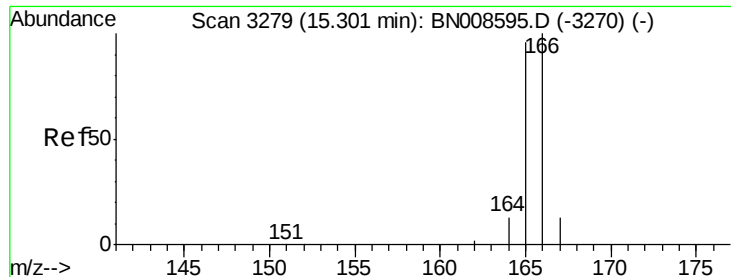
Delta R.T. -0.00 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1327  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 61.2  | 39.6  | 59.4# |
| 154       | 86.0  | 70.6  | 106.0 |





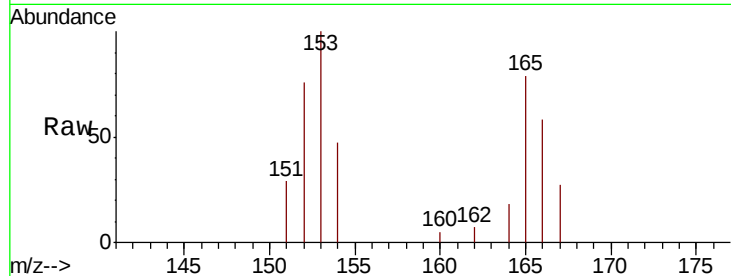
#9  
**Fluorene**  
 Concen: 0.066 ng/ul  
 RT: 15.30 min Scan# 3279  
 Delta R.T. -0.00 min  
 Lab File: BN008598.D  
 Acq: 18 Nov 2019 11:42

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM61

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 136.2 | 77.4  | 116.0# |
| 167     | 46.4  | 11.4  | 17.0#  |

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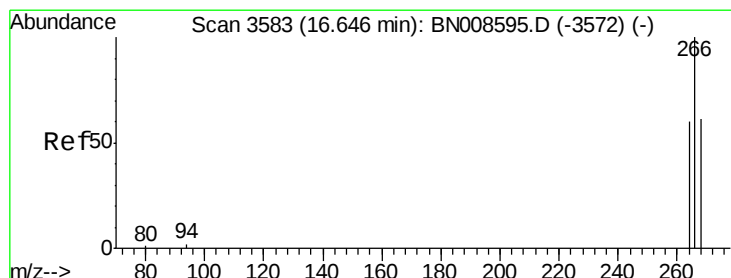
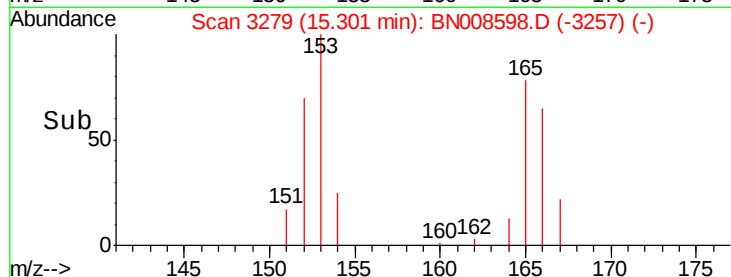
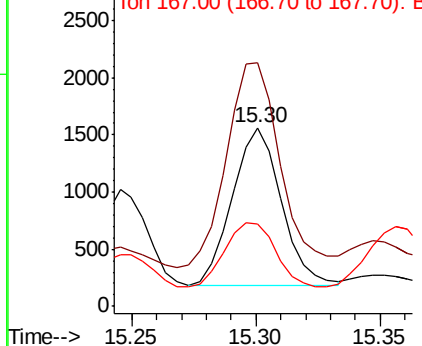


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#11  
**Pentachlorophenol**  
 Concen: 0.295 ng/ul  
 RT: 16.65 min Scan# 3583  
 Delta R.T. -0.00 min  
 Lab File: BN008598.D  
 Acq: 18 Nov 2019 11:42

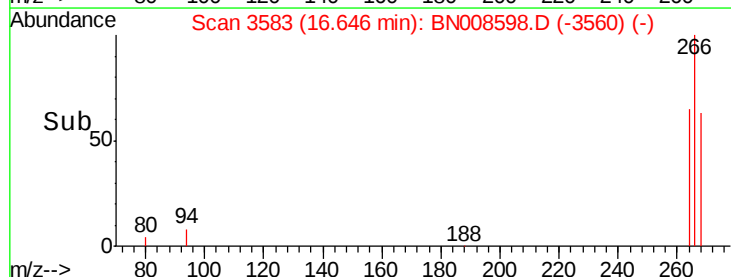
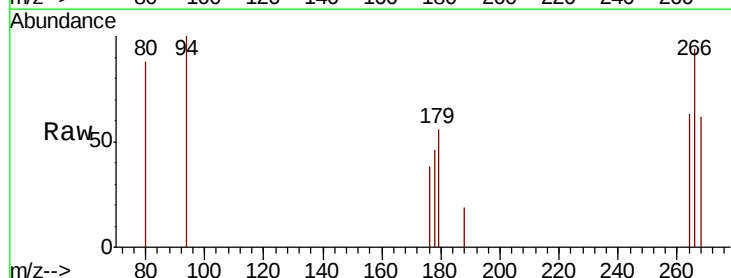
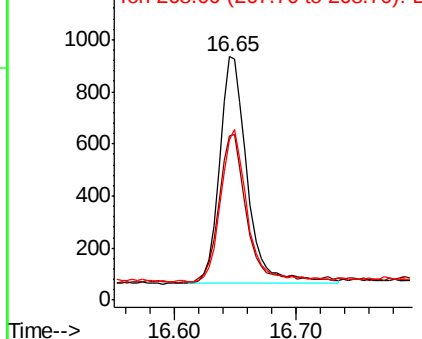
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 65.5  | 49.2  | 73.8  |
| 268     | 64.3  | 50.9  | 76.3  |

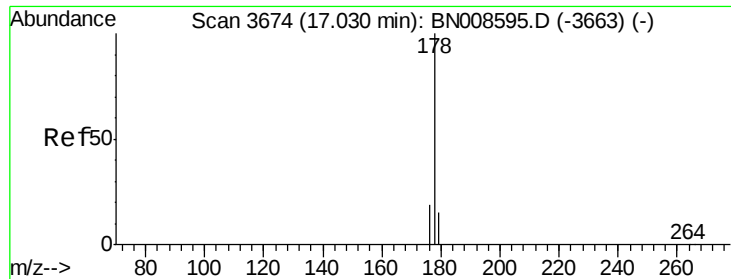
Abundance

Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





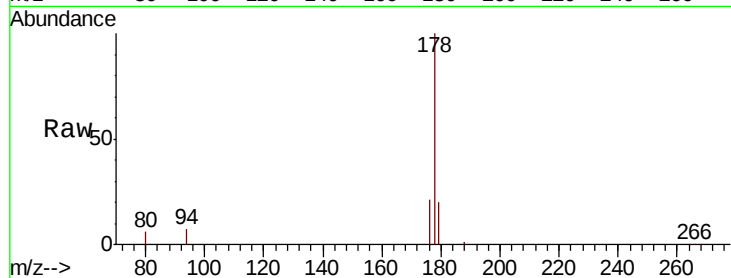
#12  
Phenanthrene  
Concen: 0.604 ng/ul  
RT: 17.03 min Scan# 3675  
Delta R.T. 0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM61

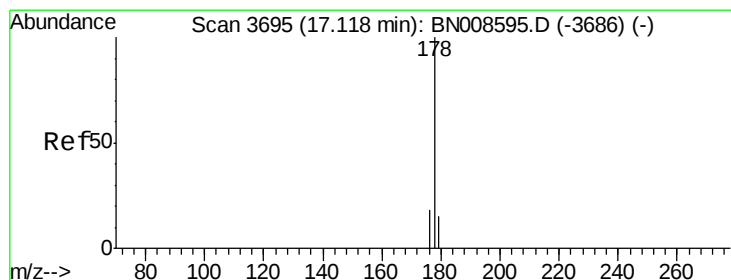
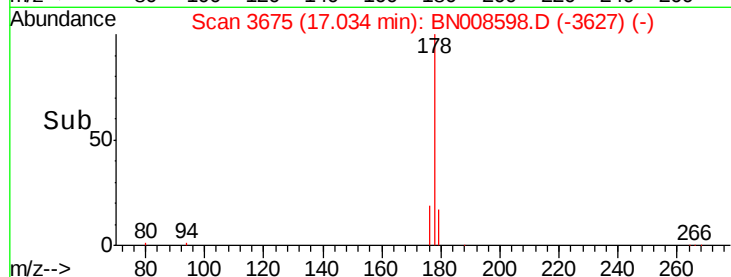
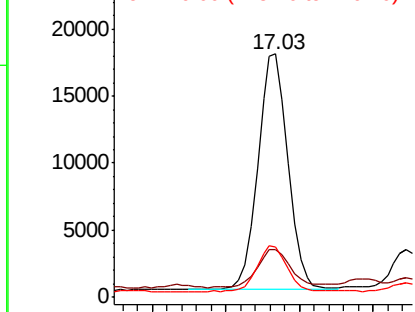
Tot Ion:178 Resp: 24904  
Ion Ratio Lower Upper  
178 100  
179 19.7 12.8 19.2#  
176 20.6 16.0 24.0

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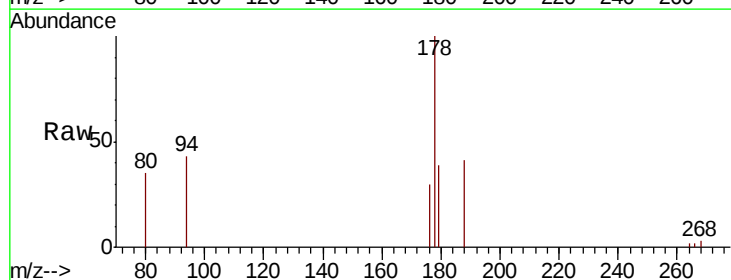


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

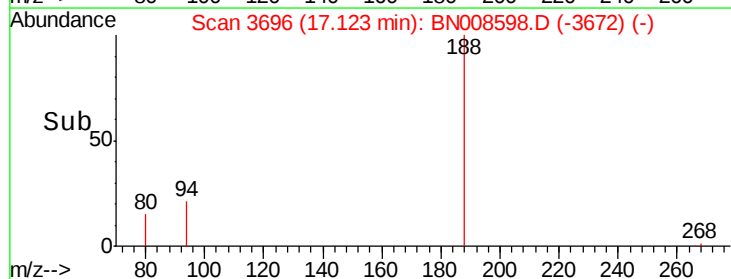
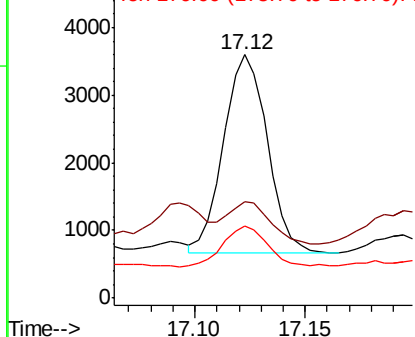


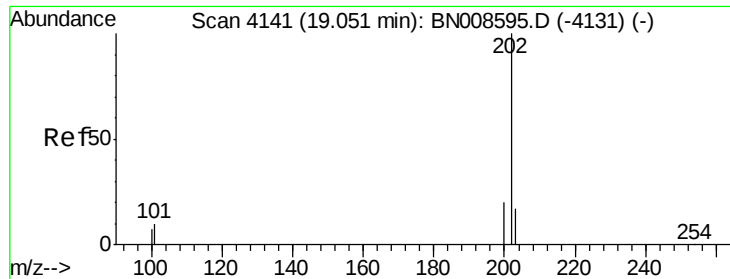
#13  
Anthracene  
Concen: 0.103 ng/ul  
RT: 17.12 min Scan# 3696  
Delta R.T. -0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

Tgt Ion:178 Resp: 4030  
Ion Ratio Lower Upper  
178 100  
179 39.5 13.0 19.4#  
176 29.6 15.3 22.9#



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





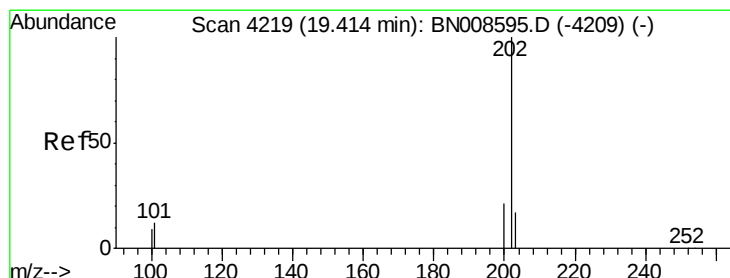
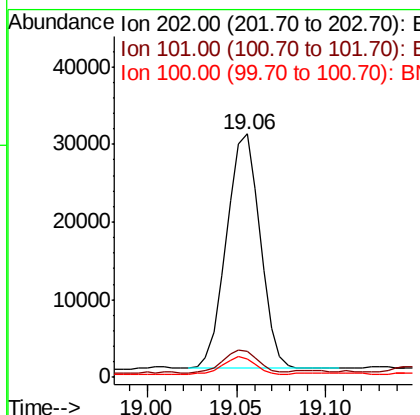
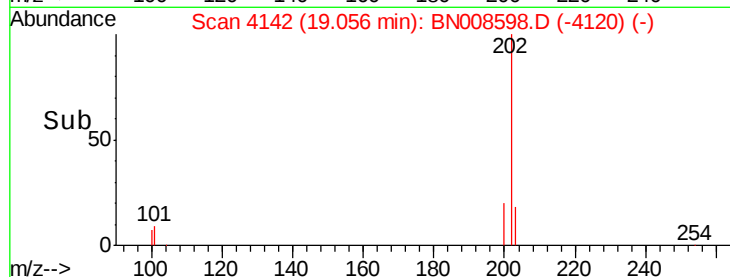
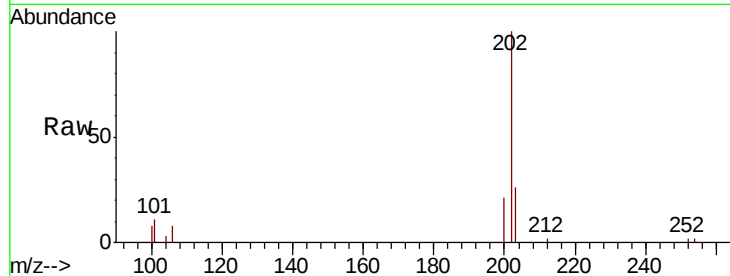
#15  
Fluoranthene  
Concen: 0.782 ng/ul  
RT: 19.06 min Scan# 4142  
Delta R.T. -0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM61

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.5  | 0.0        | 29.6  |
| 100     | 7.5   | 0.0        | 27.0  |

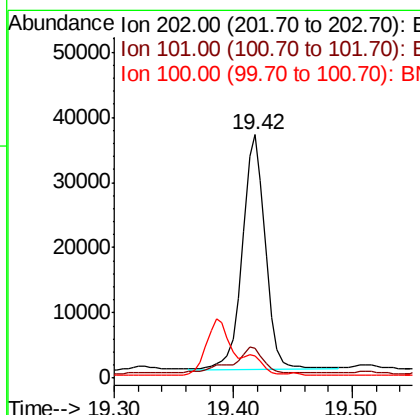
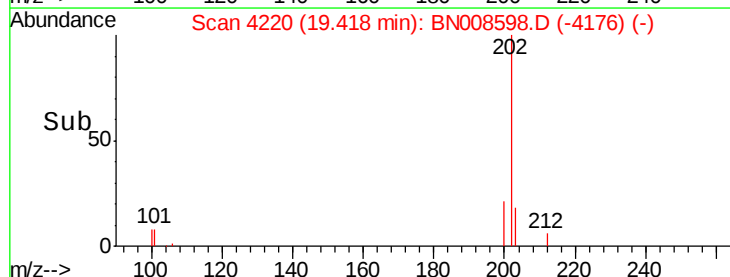
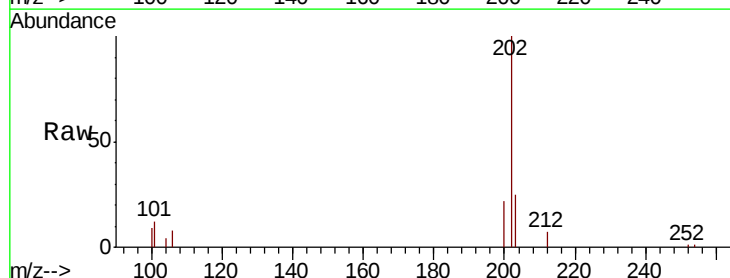
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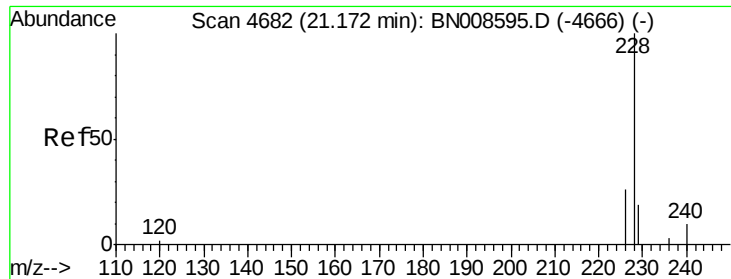
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#17  
Pyrene  
Concen: 1.164 ng/ul  
RT: 19.42 min Scan# 4220  
Delta R.T. 0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.3  | 10.2       | 15.2  |
| 100     | 9.3   | 8.2        | 12.2  |





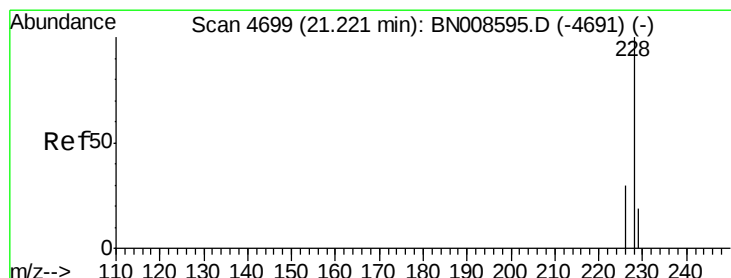
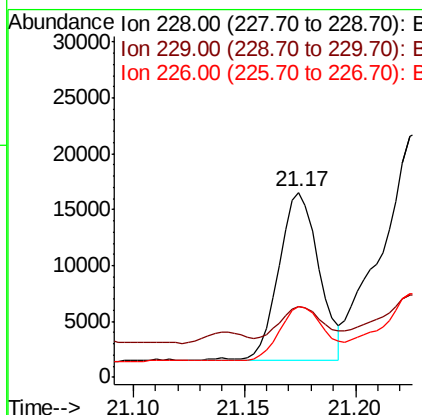
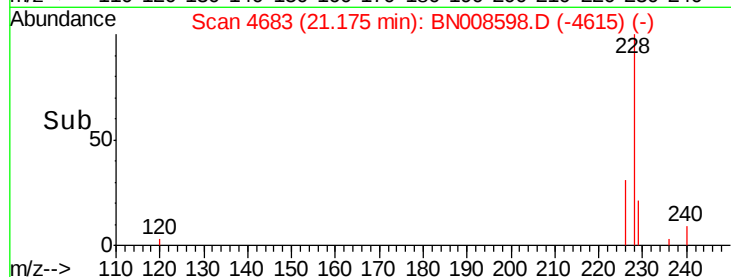
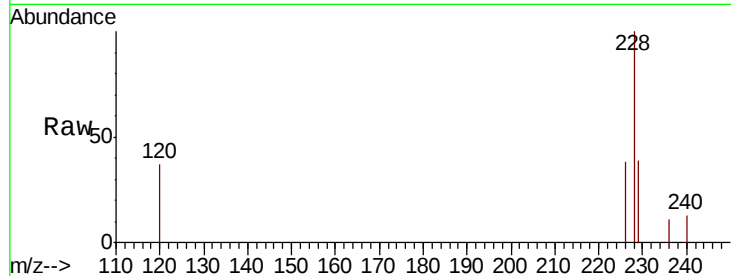
#18  
Benzo(a)anthracene  
Concen: 0.461 ng/ul  
RT: 21.17 min Scan# 4683  
Delta R.T. -0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

Instrument :  
BNA\_N  
ClientSampled :  
JLM61

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 38.6  | 15.8  | 23.6# |
| 226     | 38.0  | 21.6  | 32.4# |

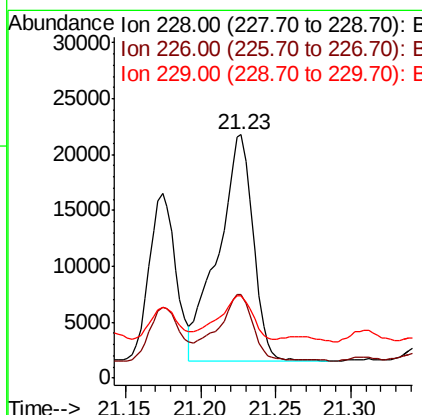
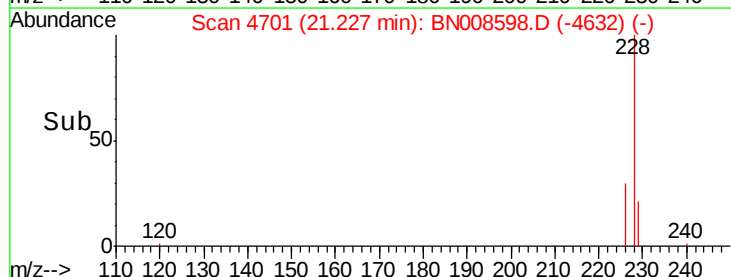
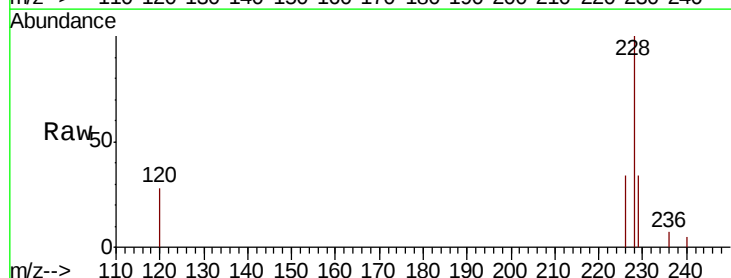
Manual Integrations  
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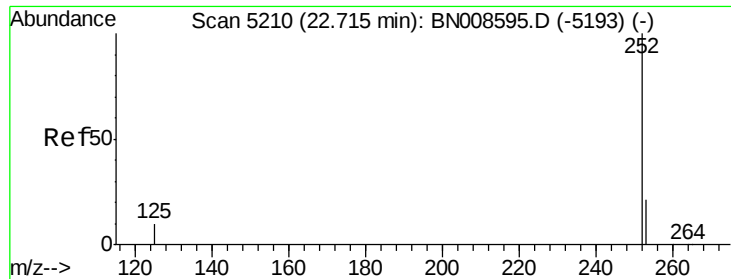
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#19  
Chrysene  
Concen: 0.813 ng/ul  
RT: 21.23 min Scan# 4701  
Delta R.T. 0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.4  | 24.5  | 36.7  |
| 229     | 33.7  | 15.5  | 23.3# |





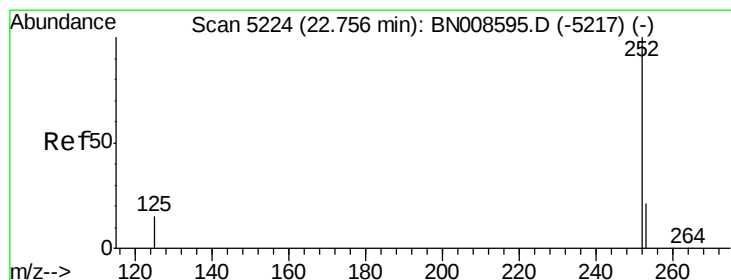
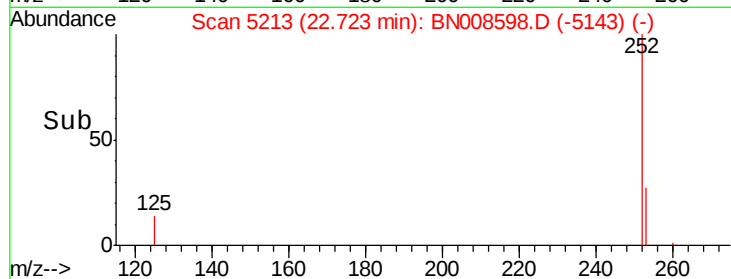
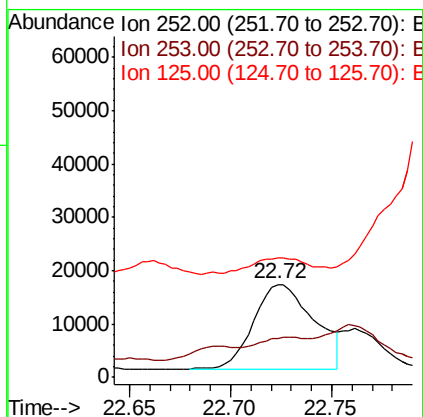
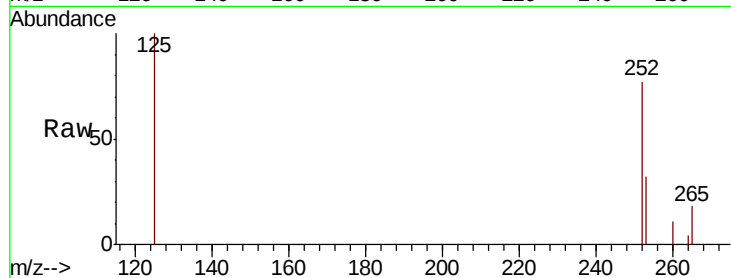
#21  
Benzo(b)fluoranthene  
Concen: 0.777 ng/ul m  
RT: 22.72 min Scan# 5213  
Delta R.T. 0.01 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

Instrument :  
BNA\_N  
ClientSampleId :  
JLM61

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 41.8  | 0.0   | 50.2  |
| 125     | 129.1 | 0.0   | 30.0# |

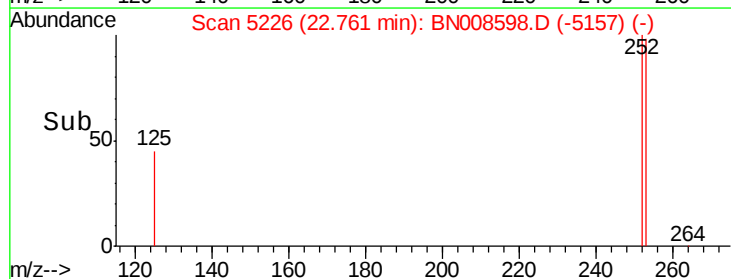
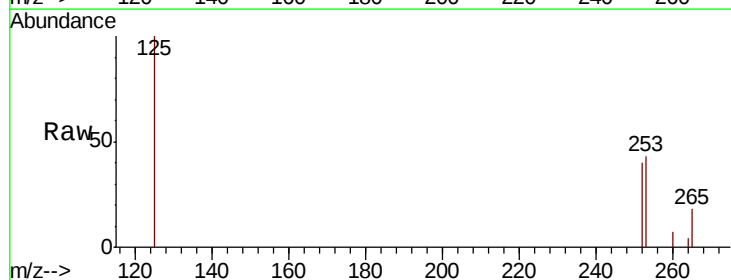
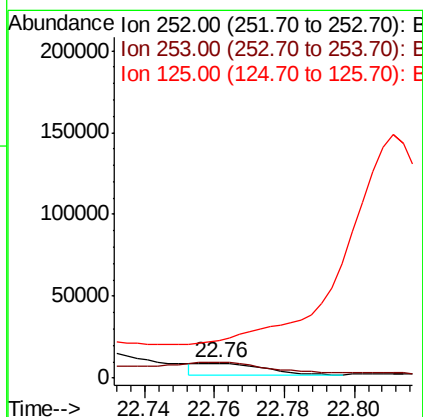
Manual Integrations  
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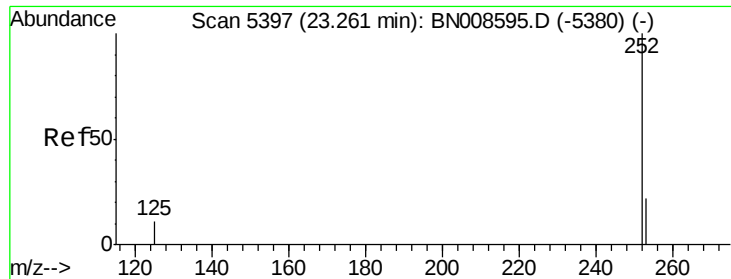
mohammad  
11/19/2019 2:43:53 PM



#22  
Benzo(k)fluoranthene  
Concen: 0.244 ng/ul m  
RT: 22.76 min Scan# 5226  
Delta R.T. 0.00 min  
Lab File: BN008598.D  
Acq: 18 Nov 2019 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 107.6 | 20.5  | 30.7# |
| 125     | 253.1 | 15.0  | 22.4# |





#23

Benzo(a)pyrene

Concen: 0.693 ng/uL

RT: 23.27 min Scan# 5401

Delta R.T. 0.01 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

Instrument :

BNA\_N

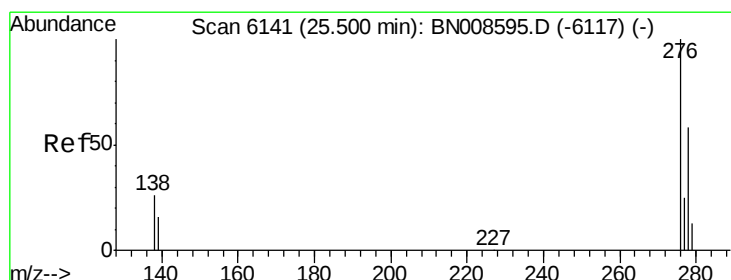
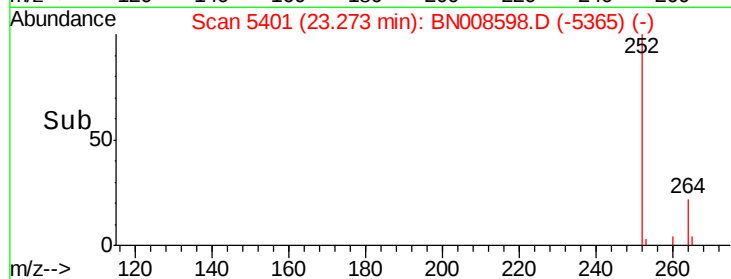
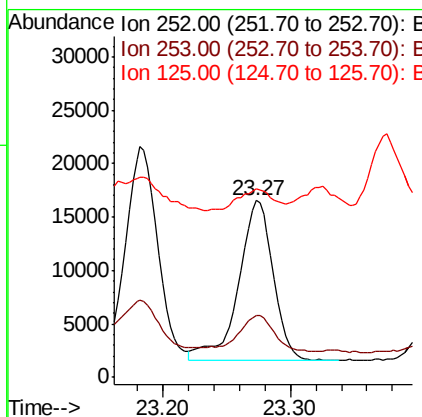
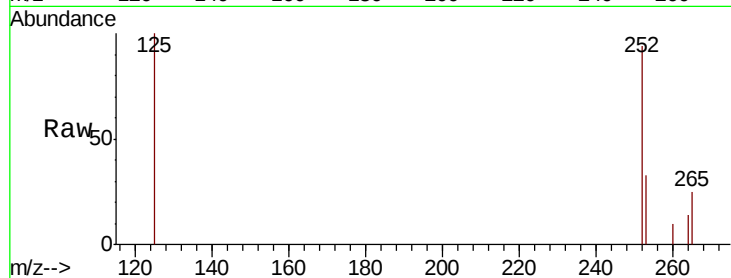
ClientSampleId :

JLM61

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 27939 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 35.2  | 21.4  | 32.2# |
| 125       | 106.9 | 13.8  | 20.8# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.393 ng/uL

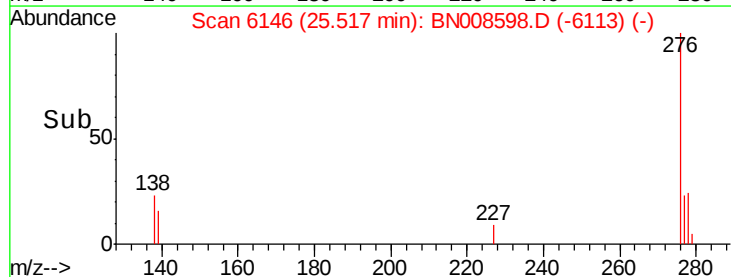
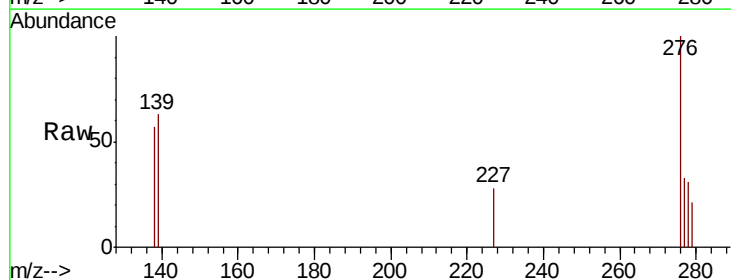
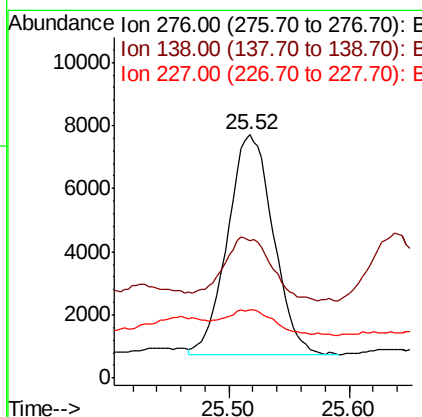
RT: 25.52 min Scan# 6146

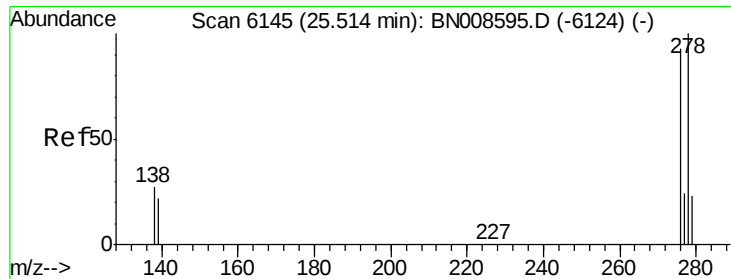
Delta R.T. 0.01 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 18506 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 30.0  | 21.7  | 32.5  |
| 227       | 11.8  | 0.2   | 0.2#  |





#25

Dibenzo(a,h)anthracene

Concen: 0.163 ng/u1

RT: 25.53 min Scan# 6149

Delta R.T. 0.01 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

Instrument :

BNA\_N

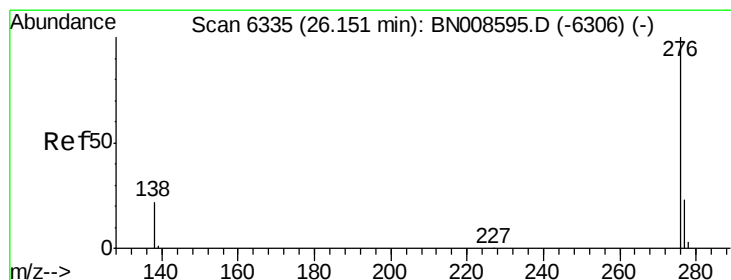
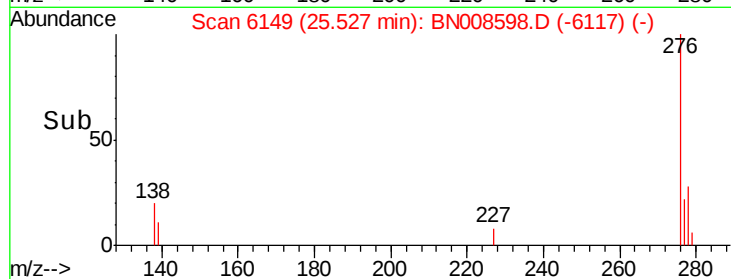
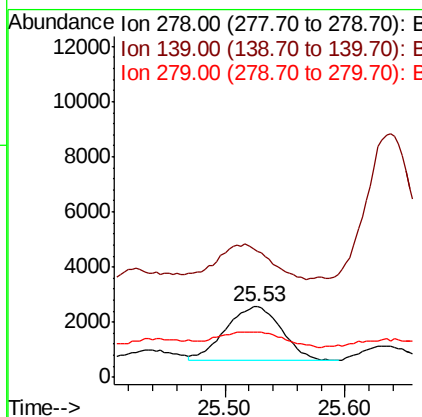
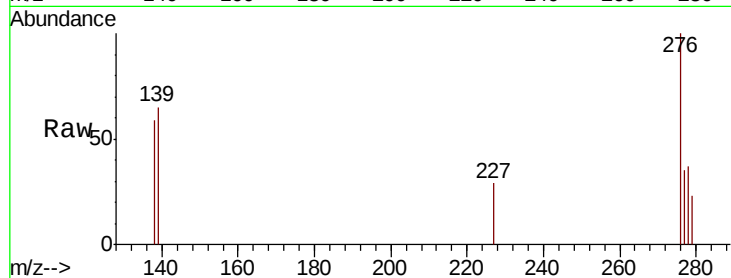
ClientSampleId :

JLM61

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 177.9 | 18.7  | 28.1# |
| 279     | 63.3  | 20.8  | 31.2# |

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#26

Benzo(g,h,i)perylene

Concen: 0.782 ng/u1

RT: 26.17 min Scan# 6342

Delta R.T. 0.02 min

Lab File: BN008598.D

Acq: 18 Nov 2019 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 43.4  | 20.0  | 30.0# |
| 277     | 29.9  | 20.0  | 30.0  |

