

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN012721\  
 Data File : BN013505.D  
 Acq On : 27 Jan 2021 13:34  
 Operator : CG/JU  
 Sample : M1099-16  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 F1C12

Manual Integrations  
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mohammad  
 1/28/2021 11:44:10 AM

Quant Time: Jan 27 14:06:24 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN012721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 27 11:55:49 2021  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 5322     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.33 | 136  | 20585    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.20 | 164  | 12285    | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.95 | 188  | 25109m   | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.15 | 240  | 23262    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.32 | 264  | 22440    | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.92 | 152  | 10544    | 0.34  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.99 | 212  | 22923    | 0.34  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.38 | 128  | 20985    | 0.352 | ng/ul  | 98       |
| 5) 2-Methylnaphthalene      | 12.00 | 142  | 6955     | 0.184 | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.92 | 152  | 65746    | 1.299 | ng/ul  | 100      |
| 8) Acenaphthene             | 14.26 | 153  | 23194    | 0.515 | ng/ul  | 99       |
| 9) Fluorene                 | 15.25 | 166  | 27442    | 0.551 | ng/ul  | 98       |
| 11) Pentachlorophenol       | 16.60 | 266  | 76       | 0.021 | ng/ul  | 93       |
| 12) Phenanthrene            | 16.99 | 178  | 111090   | 1.351 | ng/ul  | 99       |
| 13) Anthracene              | 17.08 | 178  | 21185    | 0.314 | ng/ul  | 98       |
| 15) Fluoranthene            | 19.01 | 202  | 108873   | 1.212 | ng/ul  | 99       |
| 17) Pyrene                  | 19.38 | 202  | 213400   | 2.241 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.14 | 228  | 10001    | 0.130 | ng/ul# | 1        |
| 19) Chrysene                | 21.19 | 228  | 13331    | 0.139 | ng/ul# | 89       |
| 21) Benzo(b)fluoranthene    | 22.68 | 252  | 13015m   | 0.138 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.72 | 252  | 4095m    | 0.041 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.23 | 252  | 13235    | 0.166 | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.48 | 276  | 11228    | 0.106 | ng/ul# | 100      |
| 26) Benzo(a,h,i)perylene    | 26.13 | 276  | 30358    | 0.323 | ng/ul  | 99       |

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

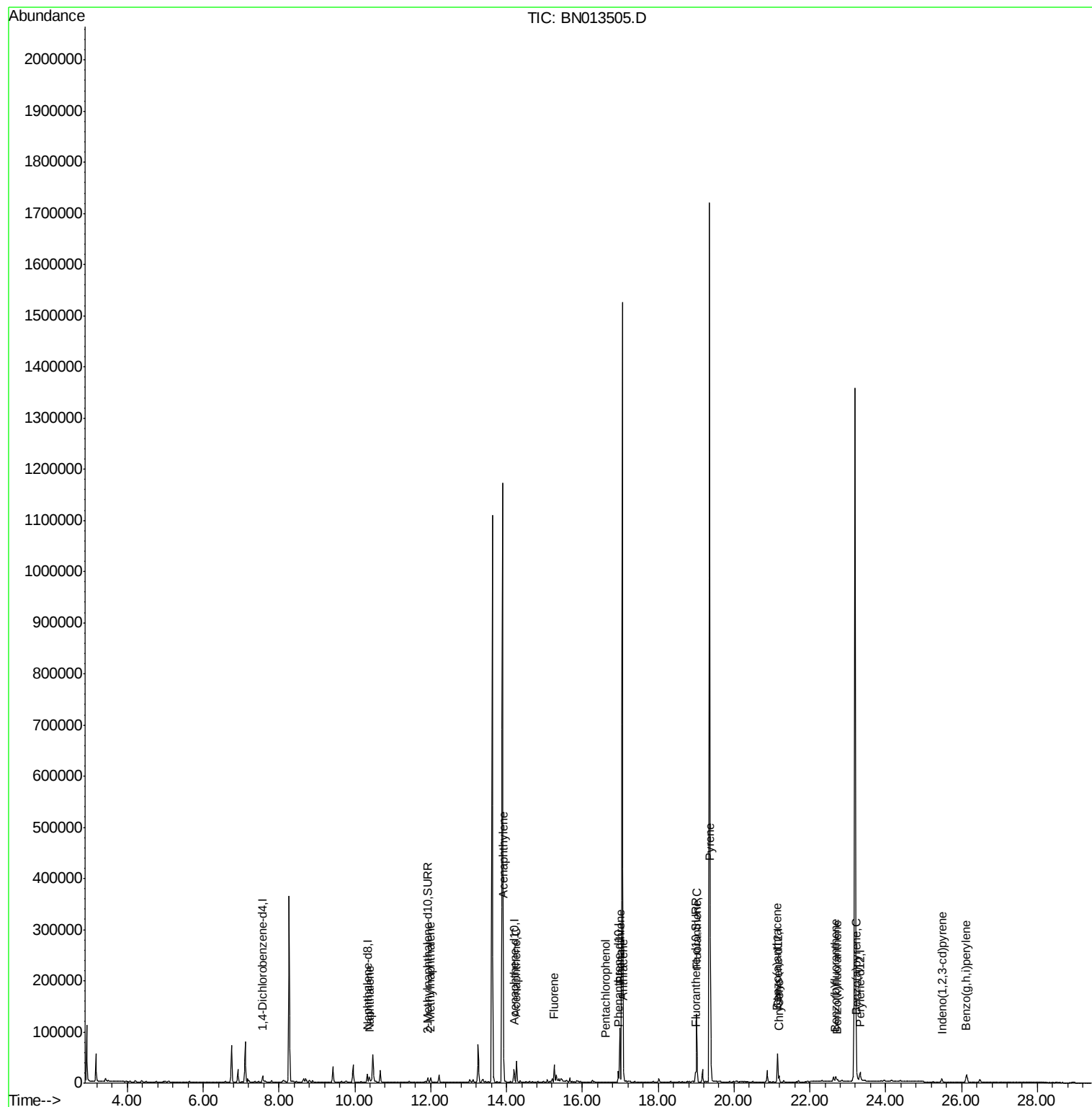
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN012721\  
Data File : BN013505.D  
Acq On : 27 Jan 2021 13:34  
Operator : CG/JU  
Sample : M1099-16  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

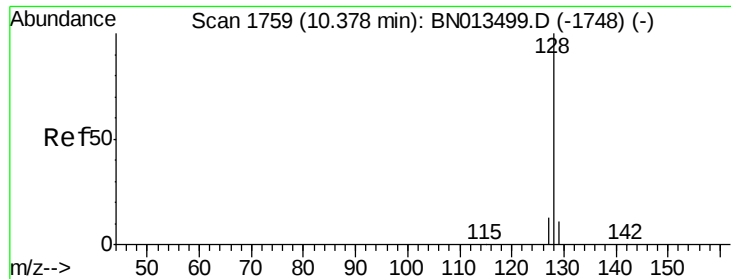
Instrument :  
BNA\_N  
ClientSampleId :  
F1C12

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Quant Time: Jan 27 14:06:24 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN012721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 27 11:55:49 2021  
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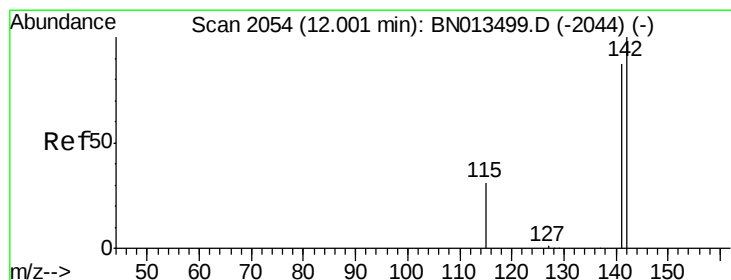
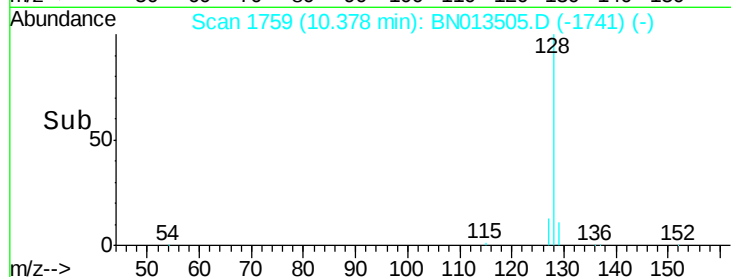
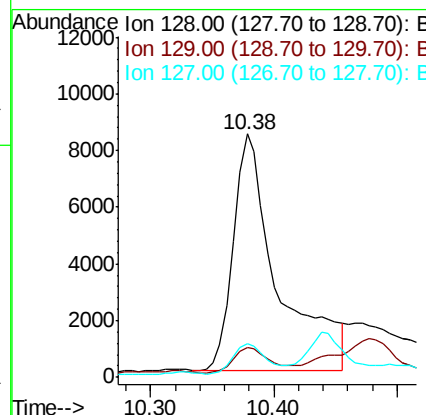
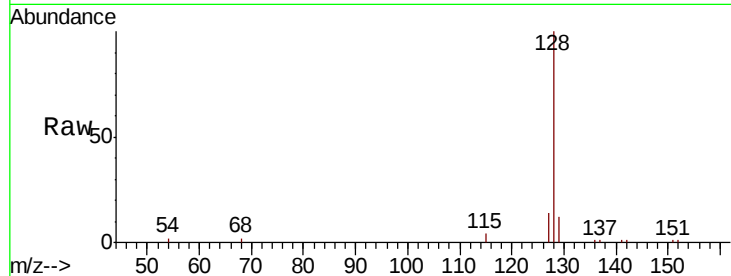
#3  
Naphthalene  
Concen: 0.352 ng/ul  
RT: 10.38 min Scan# 1759  
Delta R.T. -0.00 min  
Lab File: BN013505.D  
Acq: 27 Jan 2021 13:34

Instrument :  
BNA\_N  
ClientSampled :  
F1C12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.4  | 9.0   | 13.6  |
| 127     | 13.7  | 10.6  | 15.8  |

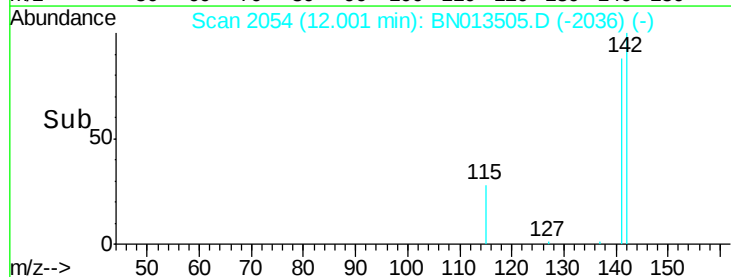
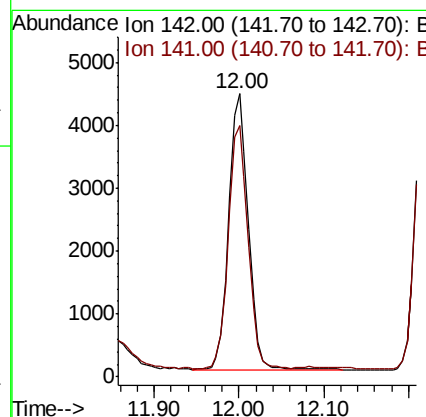
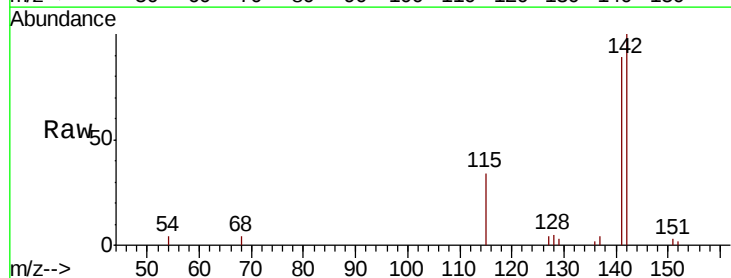
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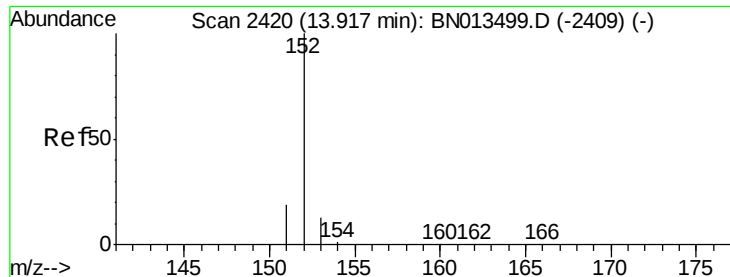
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#5  
2-Methylnaphthalene  
Concen: 0.184 ng/ul  
RT: 12.00 min Scan# 2054  
Delta R.T. -0.00 min  
Lab File: BN013505.D  
Acq: 27 Jan 2021 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.0  | 70.6  | 106.0 |





#7

Acenaphthylene

Concen: 1.299 ng/ul

RT: 13.92 min Scan# 2420

Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

Instrument :

BNA\_N

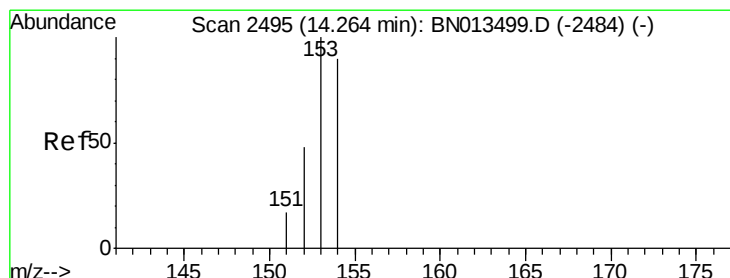
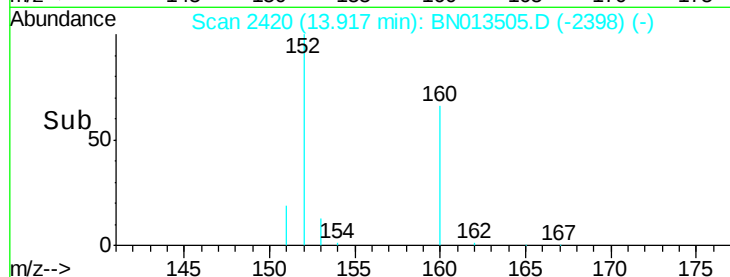
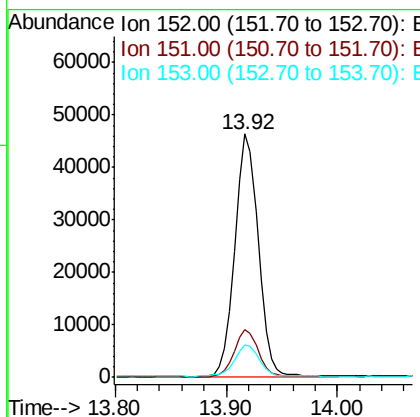
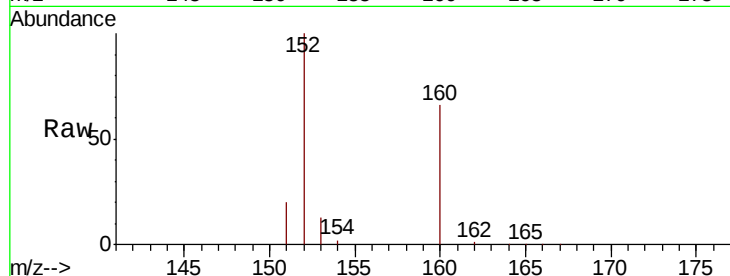
ClientSampleId :

F1C12

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 65746 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.8  | 16.1  | 24.1  |
| 153      | 13.5  | 10.7  | 16.1  |

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#8

Acenaphthene

Concen: 0.515 ng/ul

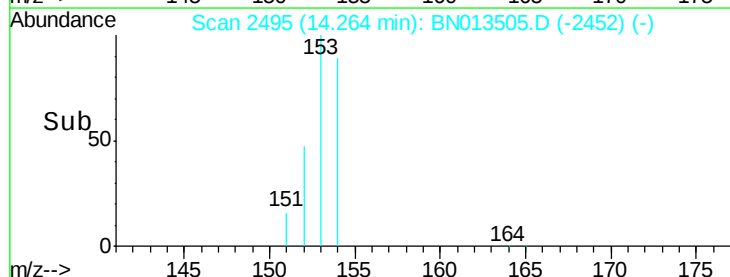
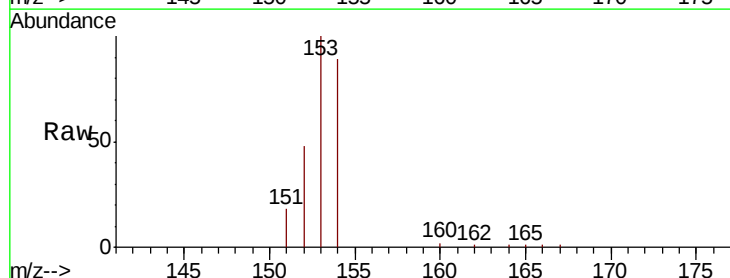
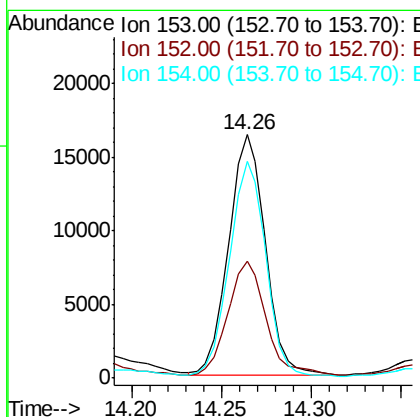
RT: 14.26 min Scan# 2495

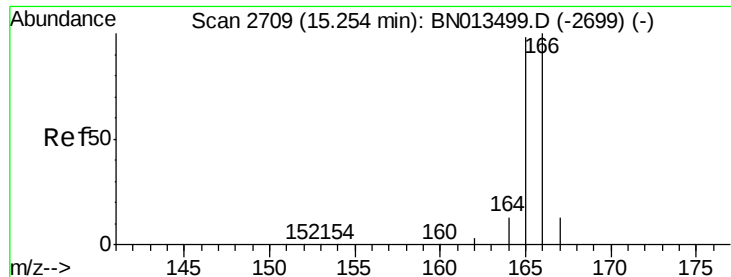
Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 23194 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 47.8  | 39.5  | 59.3  |
| 154      | 89.0  | 70.6  | 105.8 |





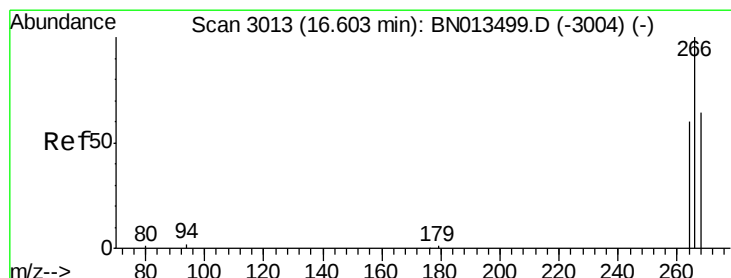
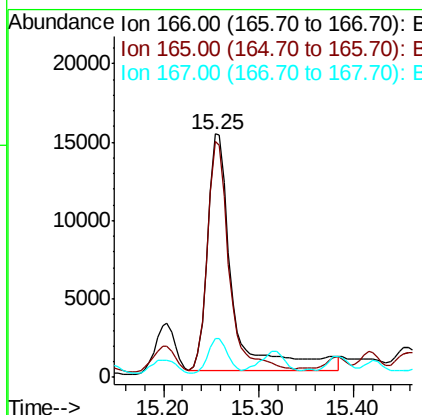
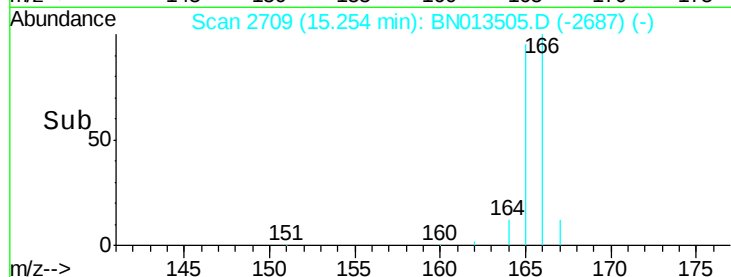
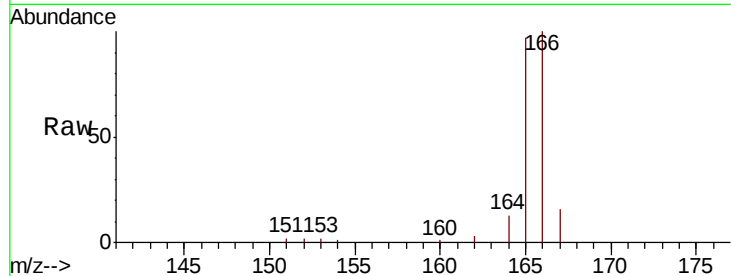
#9  
**Fluorene**  
 Concen: 0.551 ng/ul  
 RT: 15.25 min Scan# 2709  
 Delta R.T. -0.00 min  
 Lab File: BN013505.D  
 Acq: 27 Jan 2021 13:34

Instrument :  
 BNA\_N  
 ClientSampleId :  
 F1C12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.7  | 78.7  | 118.1 |
| 167     | 16.0  | 11.3  | 16.9  |

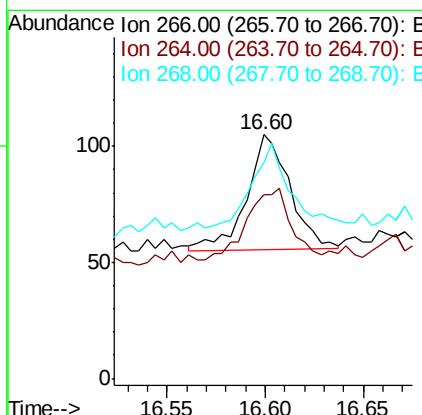
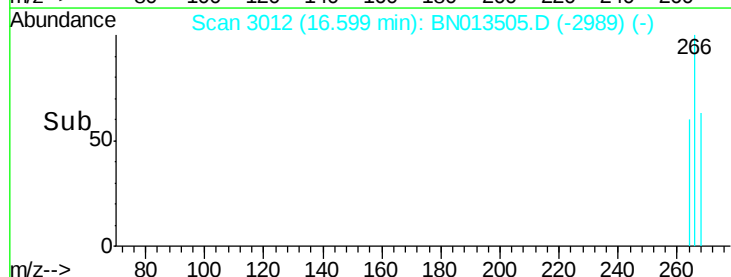
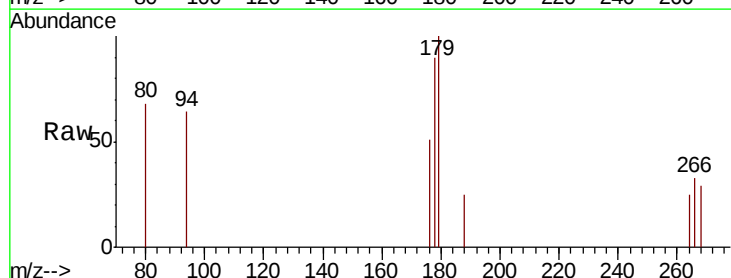
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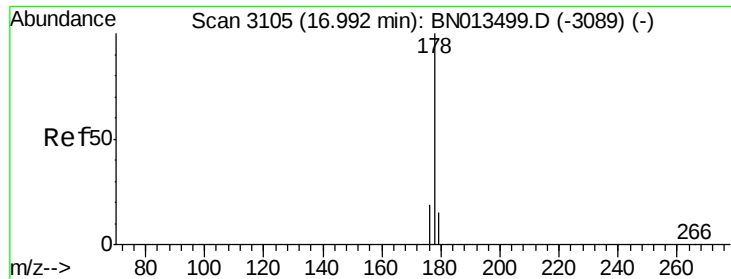
mohammad  
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#11  
**Pentachlorophenol**  
 Concen: 0.021 ng/ul  
 RT: 16.60 min Scan# 3012  
 Delta R.T. -0.00 min  
 Lab File: BN013505.D  
 Acq: 27 Jan 2021 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 65.8  | 49.8  | 74.6  |
| 268     | 72.4  | 52.2  | 78.4  |





#12

Phenanthrene

Concen: 1.351 ng/ul

RT: 16.99 min Scan# 3105

Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

Instrument :

BNA\_N

ClientSampled :

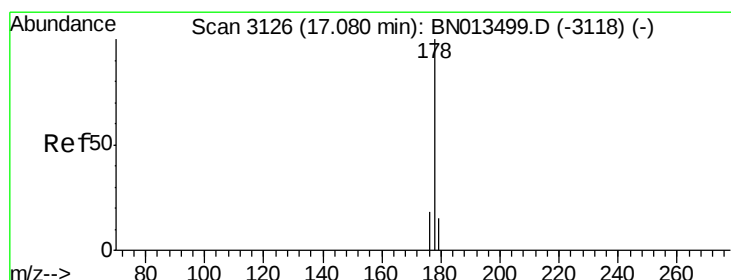
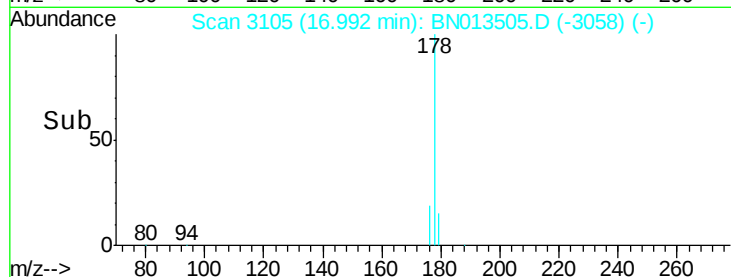
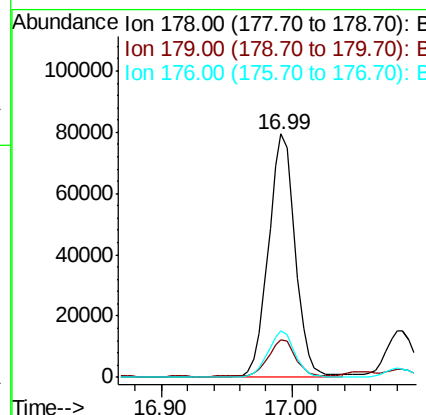
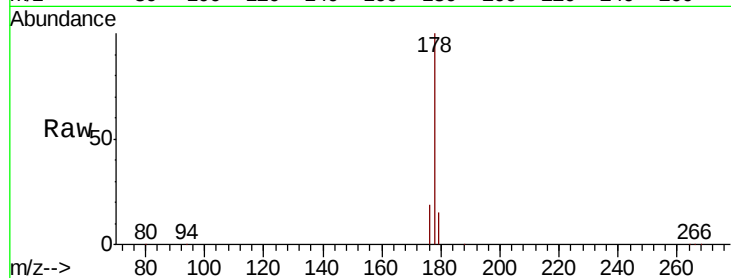
F1C12

Tot Ion:178 Resp: 111090

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.3  | 12.5  | 18.7  |
| 176 | 19.0  | 15.6  | 23.4  |

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#13

Anthracene

Concen: 0.314 ng/ul

RT: 17.08 min Scan# 3126

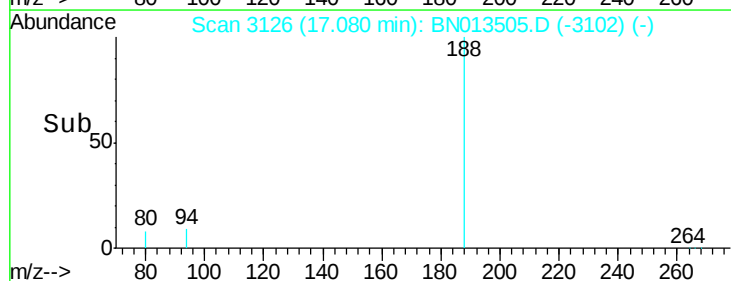
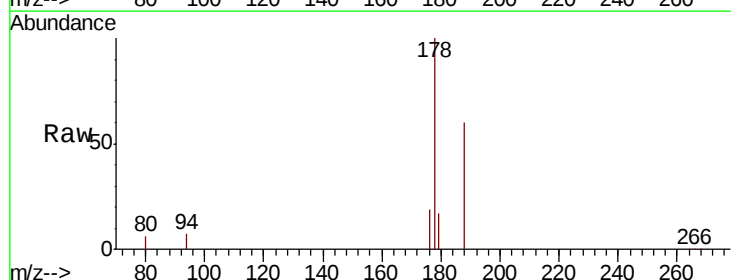
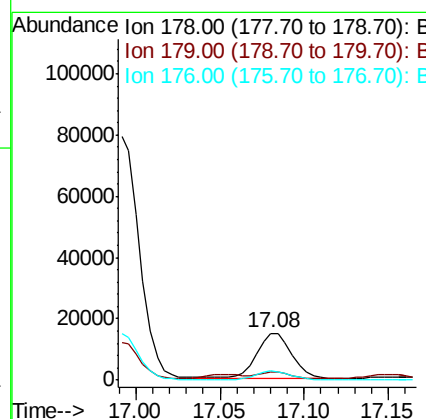
Delta R.T. -0.00 min

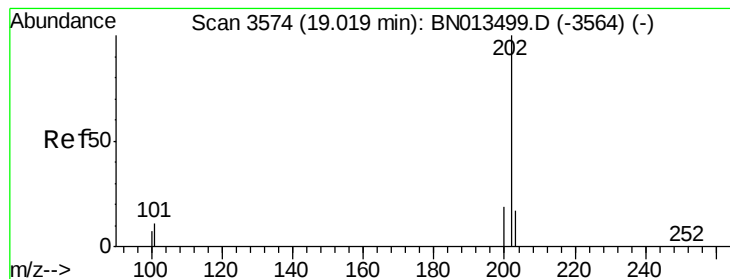
Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

Tgt Ion:178 Resp: 21185

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 17.4  | 12.6  | 19.0  |
| 176 | 19.0  | 15.0  | 22.4  |





#15

Fluoranthene

Concen: 1.212 ng/ul

RT: 19.01 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

Instrument :

BNA\_N

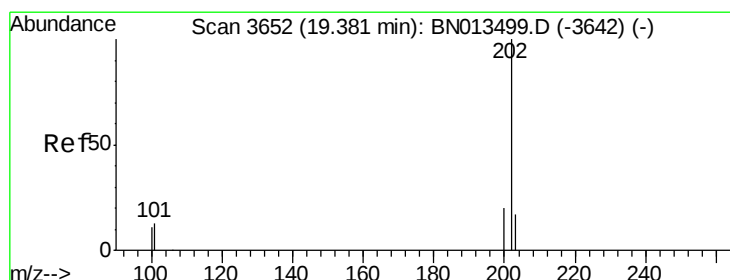
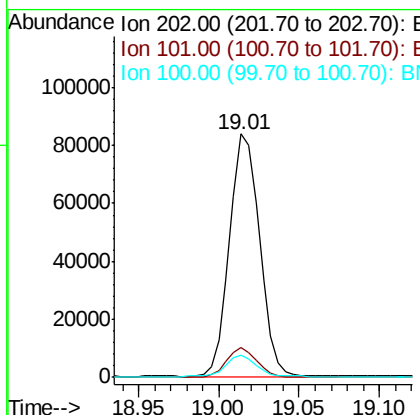
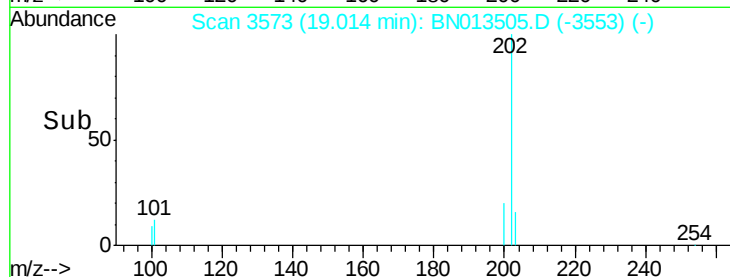
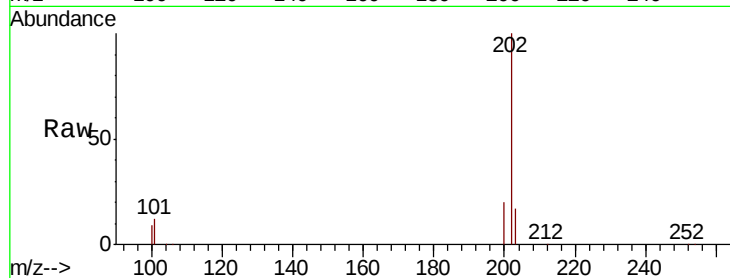
ClientSampleId :

F1C12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 108873 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.0  | 0.0   | 31.6   |
| 100       | 9.0   | 0.0   | 28.5   |

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#17

Pyrene

Concen: 2.241 ng/ul

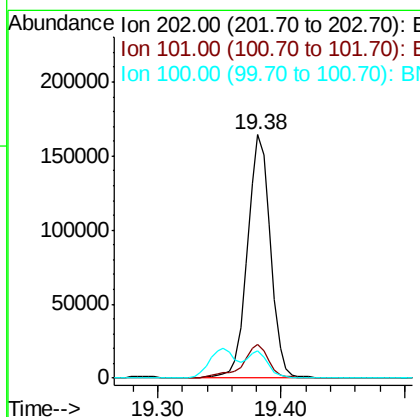
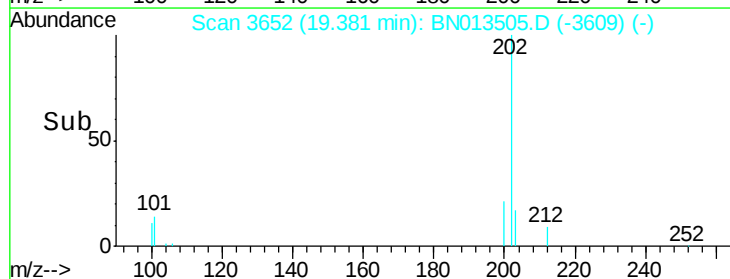
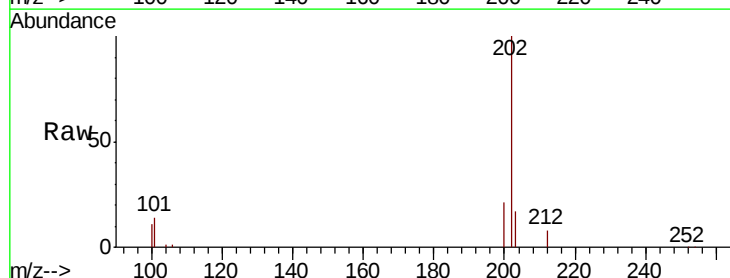
RT: 19.38 min Scan# 3652

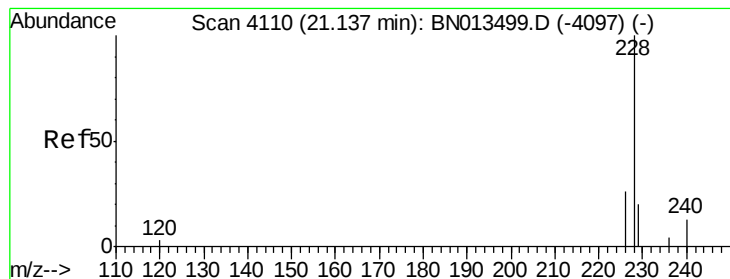
Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 213400 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.6  | 11.2  | 16.8   |
| 100       | 11.0  | 9.0   | 13.4   |





#18

Benzo(a)anthracene

Concen: 0.130 ng/ul

RT: 21.14 min Scan# 4110

Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

Instrument :

BNA\_N

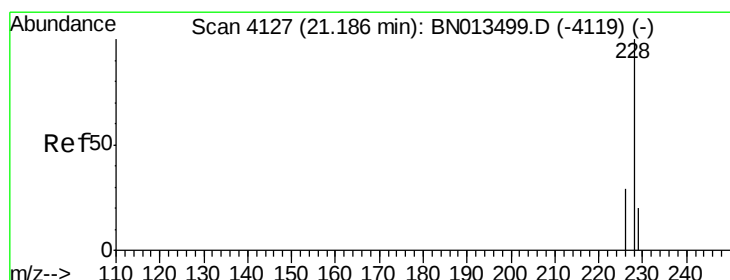
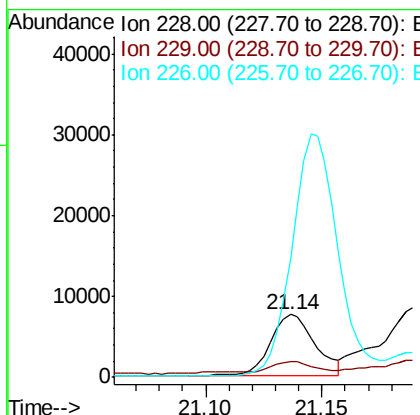
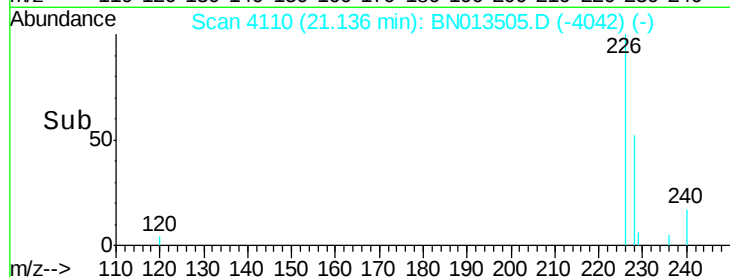
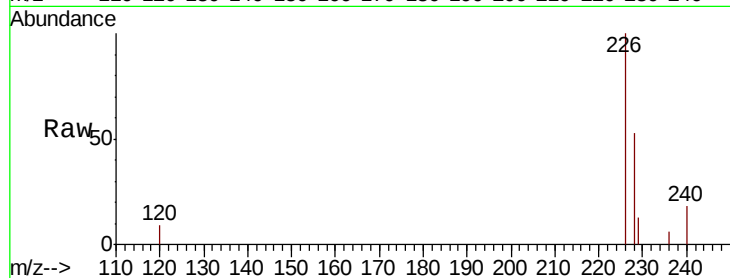
ClientSampleId :

F1C12

|             |       |            |
|-------------|-------|------------|
| Tot Ion:228 | Resp: | 10001      |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 229         | 24.6  | 15.6 23.4# |
| 226         | 190.0 | 21.9 32.9# |

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#19

Chrysene

Concen: 0.139 ng/ul

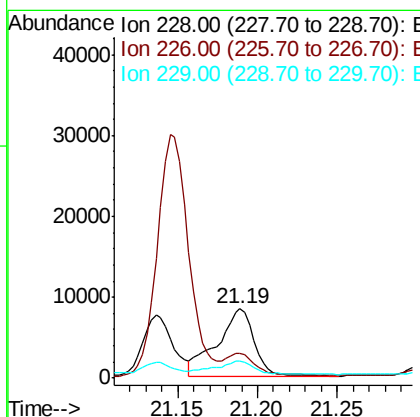
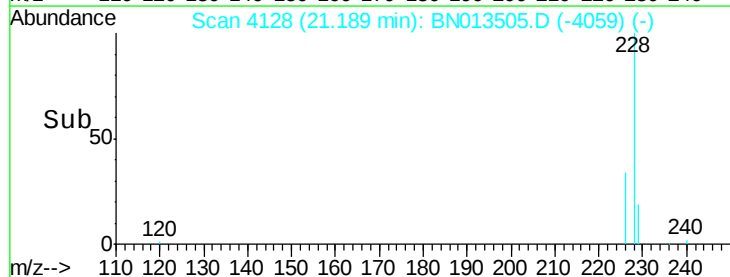
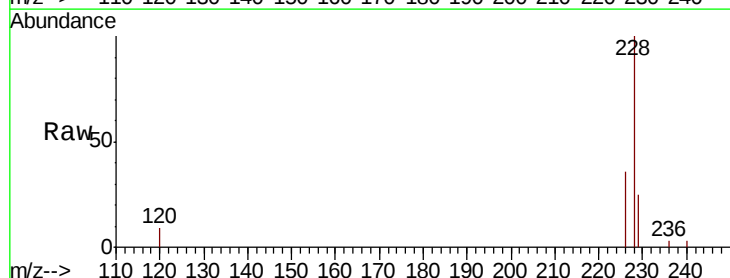
RT: 21.19 min Scan# 4128

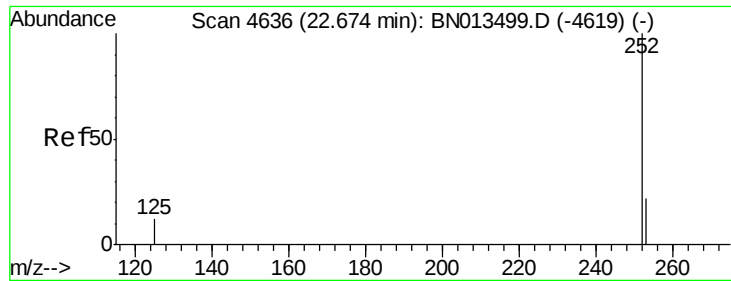
Delta R.T. 0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:228 | Resp: | 13331      |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 226         | 35.7  | 24.0 36.0  |
| 229         | 25.0  | 15.8 23.8# |





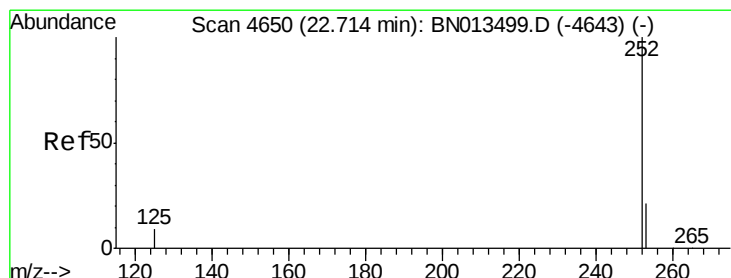
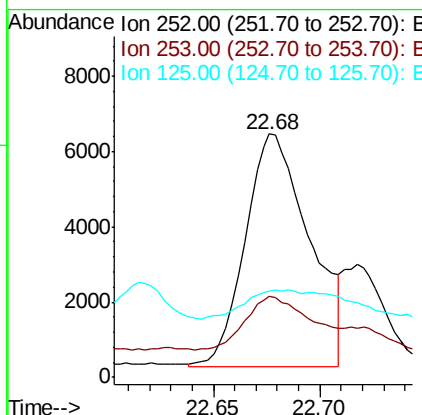
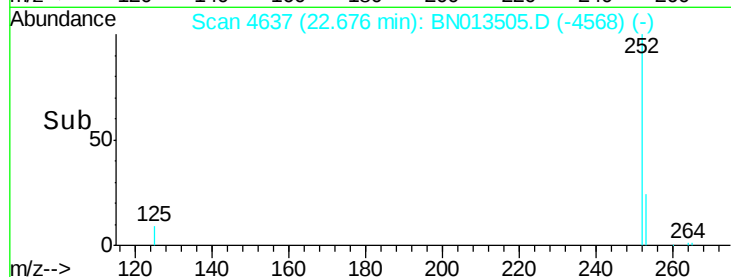
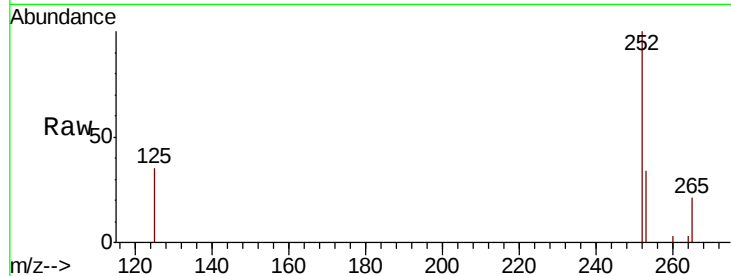
#21  
Benzo(b)fluoranthene  
Concen: 0.138 ng/ul m  
RT: 22.68 min Scan# 4637  
Delta R.T. 0.00 min  
Lab File: BN013505.D  
Acq: 27 Jan 2021 13:34

Instrument :  
BNA\_N  
ClientSampleId :  
F1C12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 33.5  | 0.0   | 47.4  |
| 125     | 35.4  | 0.0   | 26.8# |

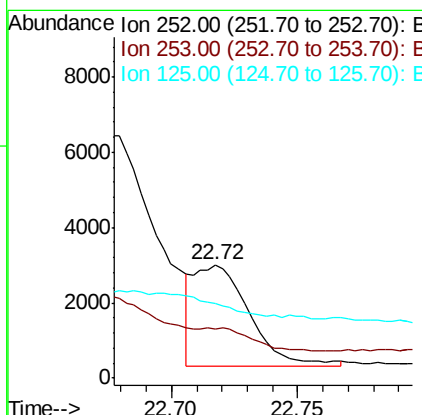
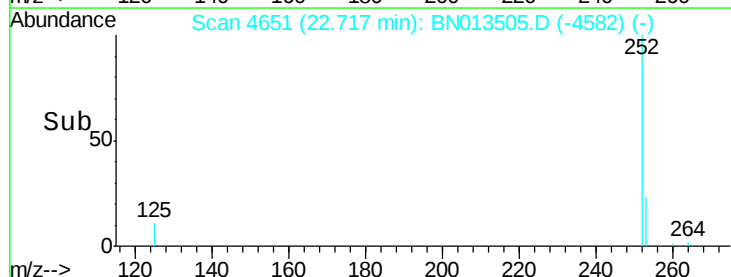
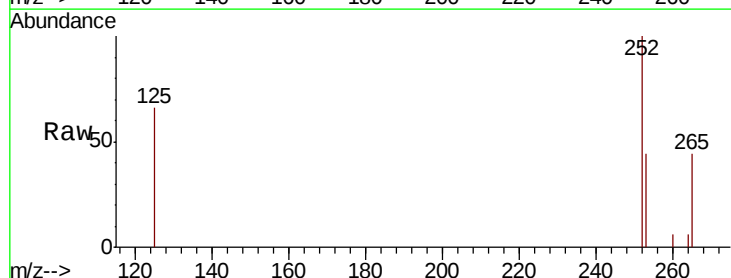
Manual Integrations  
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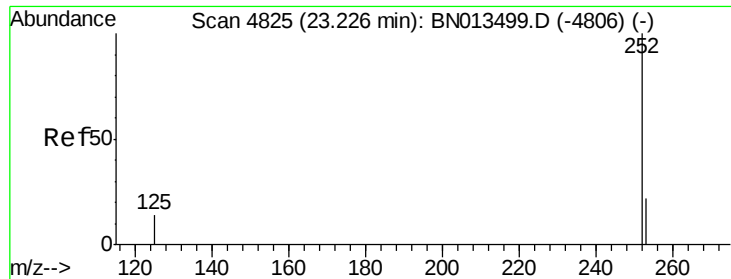
mohammad  
1/28/2021 11:44:10 AM



#22  
Benzo(k)fluoranthene  
Concen: 0.041 ng/ul m  
RT: 22.72 min Scan# 4651  
Delta R.T. 0.00 min  
Lab File: BN013505.D  
Acq: 27 Jan 2021 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 43.8  | 19.2  | 28.8# |
| 125     | 66.3  | 11.4  | 17.2# |





#23

Benzo(a)pyrene

Concen: 0.166 ng/u1

RT: 23.23 min Scan# 4827

Delta R.T. 0.01 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

Instrument :

BNA\_N

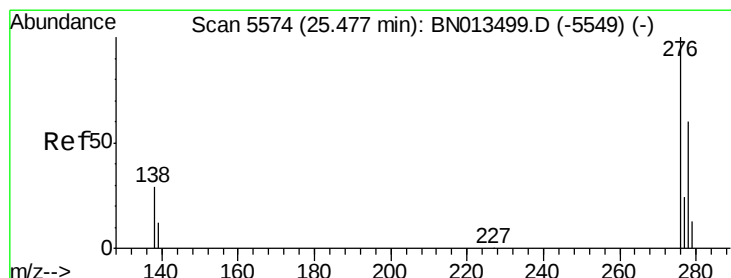
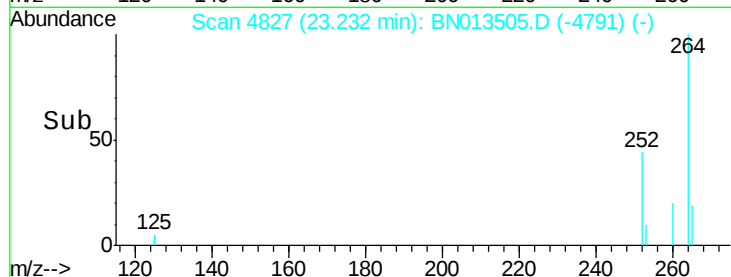
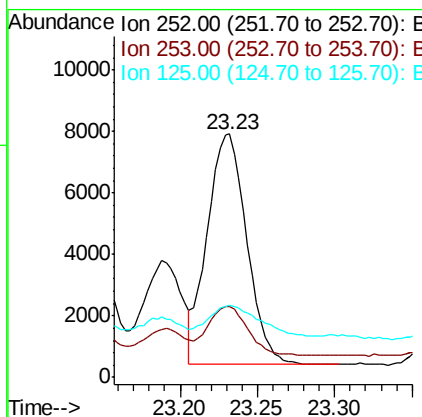
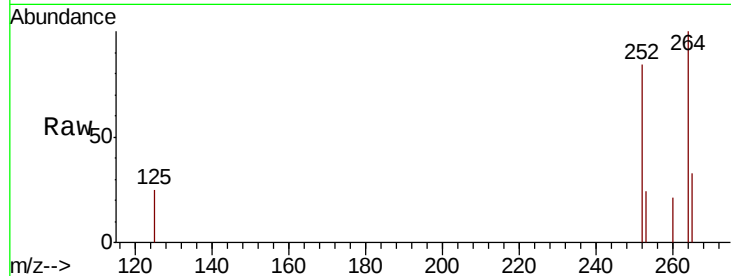
ClientSampleId :

F1C12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 13235 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.3  | 20.1  | 30.1  |
| 125       | 29.6  | 13.1  | 19.7# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.106 ng/u1

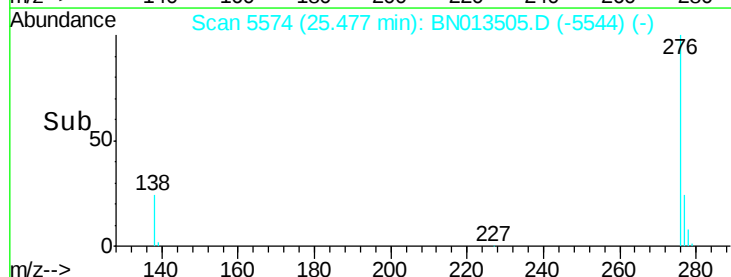
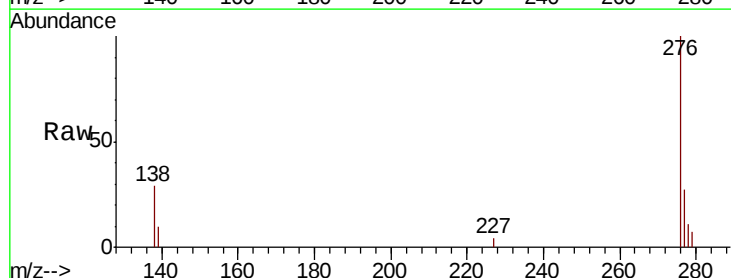
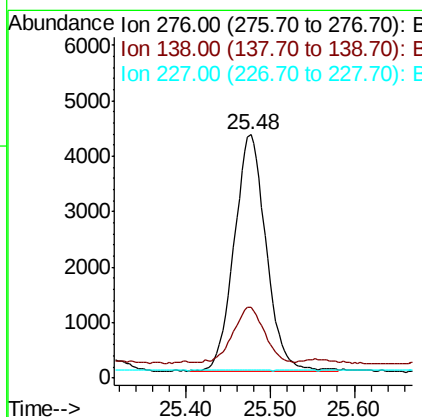
RT: 25.48 min Scan# 5574

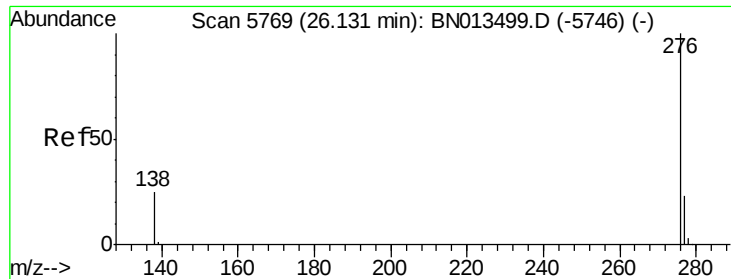
Delta R.T. -0.00 min

Lab File: BN013505.D

Acq: 27 Jan 2021 13:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 11228 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.9  | 0.0   | 0.0#  |
| 227       | 0.2   | 0.0   | 0.0#  |





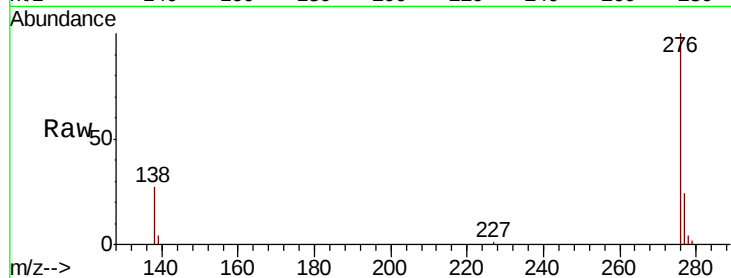
#26  
Benzo(a,h,i)perylene  
Concen: 0.323 ng/ul  
RT: 26.13 min Scan# 5769  
Delta R.T. -0.00 min  
Lab File: BN013505.D  
Acq: 27 Jan 2021 13:34

Instrument :  
BNA\_N  
ClientSampleId :  
F1C12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 30358 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 27.0  | 21.0  | 31.4  |
| 277       | 24.1  | 19.5  | 29.3  |

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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

