

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN040320\  
 Data File : BN010407.D  
 Acq On : 03 Apr 2020 11:52  
 Operator : CG/JU  
 Sample : L2095-01DL 4X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DBF16DL

Quant Time: Apr 03 12:55:10 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN040120MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 03 10:35:52 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 354469   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.37 | 136  | 1513182  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.23 | 164  | 1088877  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.98 | 188  | 2540287  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.18 | 240  | 2892574  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.35 | 264  | 3281115  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |      |       |      |
|--------------------------------|-------|-----|---------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 2419    | 0.32 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.79  | 99  | 49804   | 1.68 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 126061  | 8.14 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.15  | 132 | 154489  | 6.58 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.31  | 113 | 97241   | 3.89 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.75  | 128 | 85967   | 7.65 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 79463   | 6.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 189990  | 7.70 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.50 | 131 | 198822  | 6.82 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.65 | 166 | 744645  | 9.06 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.92 | 160 | 785581  | 8.18 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.44 | 143 | 12684   | 0.82 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.23 | 176 | 679190  | 9.49 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 22712   | 1.56 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.07 | 188 | 1098609 | 9.42 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.38 | 212 | 1342520 | 9.01 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.22 | 264 | 1558187 | 9.55 | ng/ul | 0.00 |

## Target Compounds

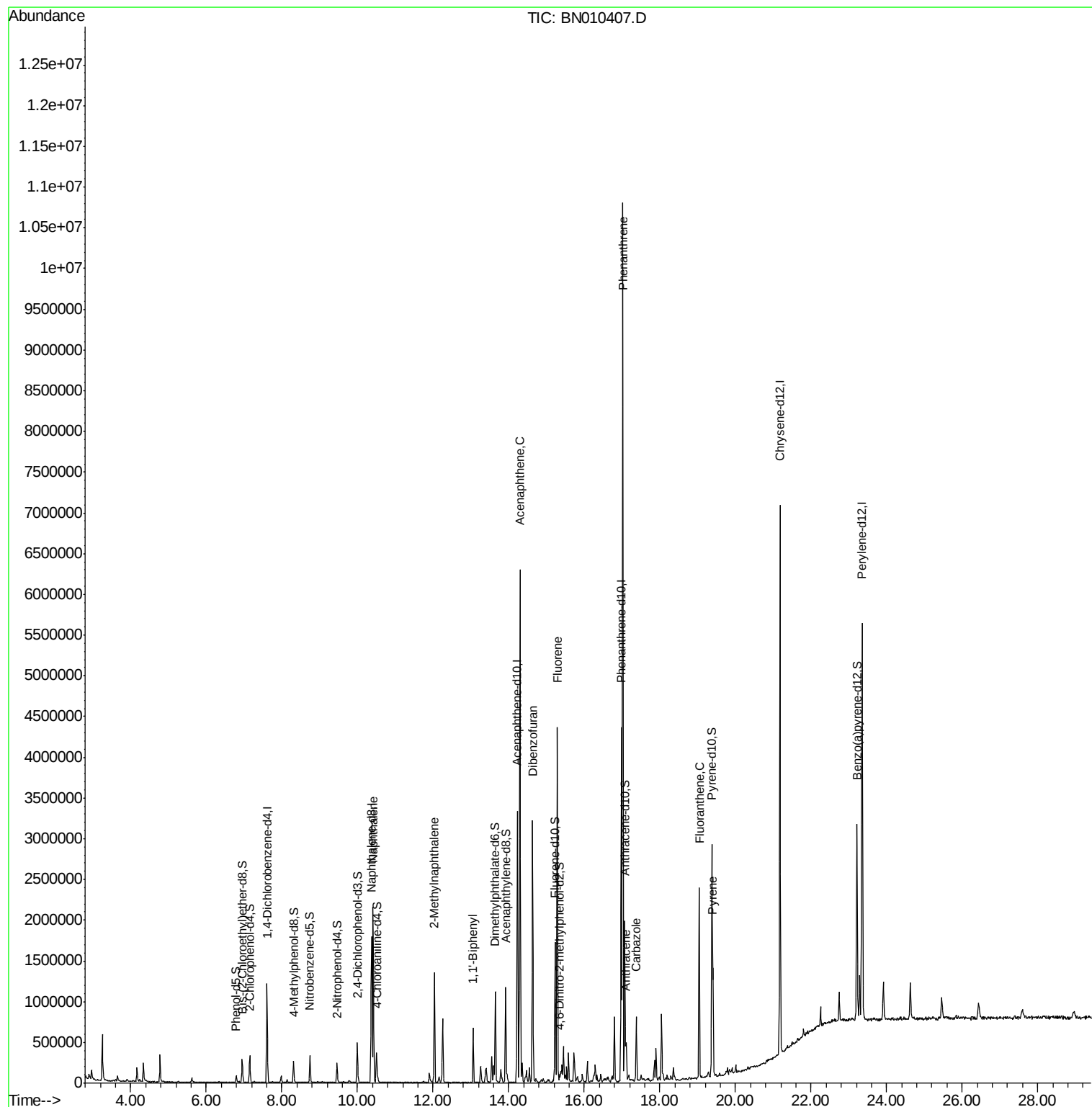
|                         |       |     |         |        | Ovalue    |
|-------------------------|-------|-----|---------|--------|-----------|
| 28) Naphthalene         | 10.42 | 128 | 1821157 | 22.372 | ng/ul 99  |
| 34) 2-Methylnaphthalene | 12.03 | 142 | 632383  | 10.693 | ng/ul 94  |
| 41) 1,1'-Biphenyl       | 13.06 | 154 | 354268  | 4.276  | ng/ul 99  |
| 50) Acenaphthene        | 14.30 | 153 | 2509323 | 35.278 | ng/ul 97  |
| 54) Dibenzofuran        | 14.63 | 168 | 2033689 | 20.299 | ng/ul 99  |
| 59) Fluorene            | 15.29 | 166 | 1855334 | 22.754 | ng/ul 99  |
| 70) Phenanthrene        | 17.02 | 178 | 6297052 | 44.736 | ng/ul 99  |
| 72) Anthracene          | 17.11 | 178 | 347291  | 2.467  | ng/ul 99  |
| 75) Carbazole           | 17.38 | 167 | 502474  | 4.292  | ng/ul 98  |
| 77) Fluoranthene        | 19.05 | 202 | 1421853 | 9.485  | ng/ul 97  |
| 80) Pyrene              | 19.40 | 202 | 844164  | 4.365  | ng/ul 100 |

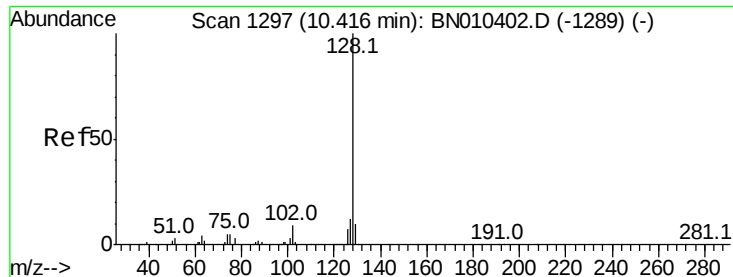
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DBF16DL

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN040120MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Apr 03 10:35:52 2020  
Response via : Initial Calibration





#28

Naphthalene

Concen: 22.372 ng/ul

RT: 10.42 min Scan# 1297

Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

Instrument :

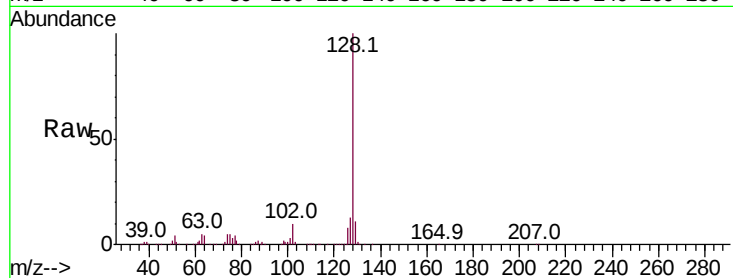
BNA\_N

ClientSampleId :

DBF16DL

Tot Ion:128 Resp: 1821157

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.4  | 8.6   | 13.0  |
| 127 | 12.9  | 10.8  | 16.2  |

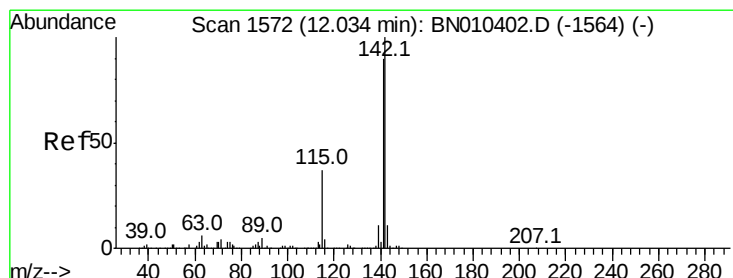
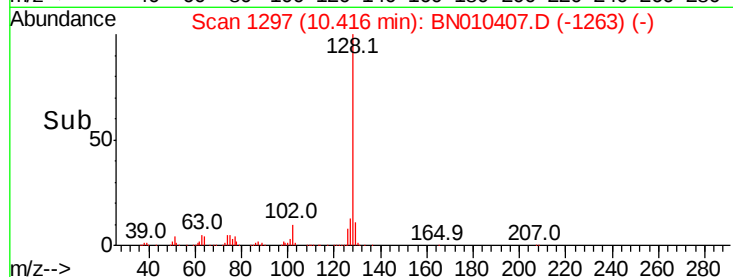
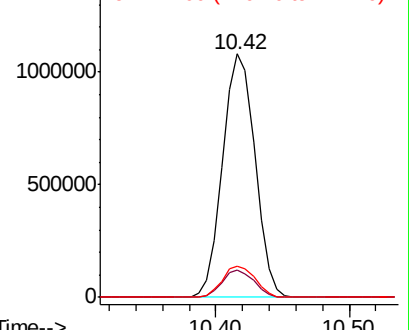


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 10.693 ng/ul

RT: 12.03 min Scan# 1572

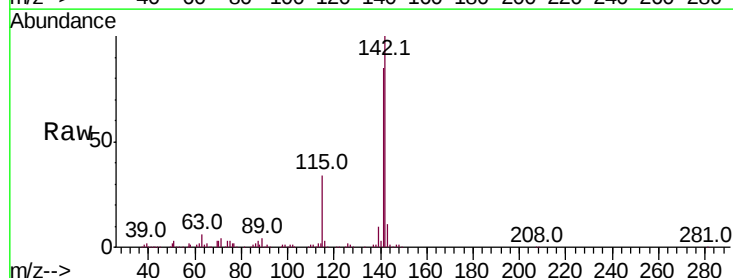
Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

Tgt Ion:142 Resp: 632383

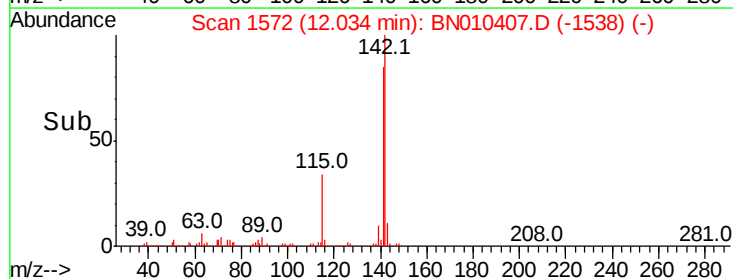
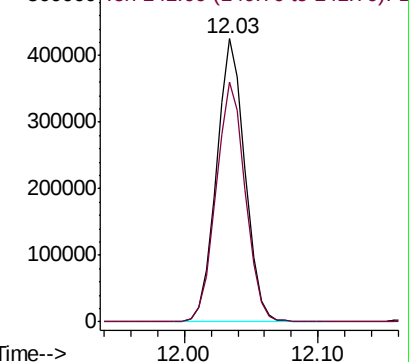
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 84.6  | 72.1  | 108.1 |

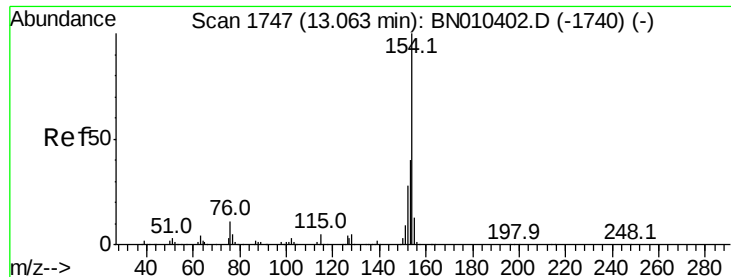


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

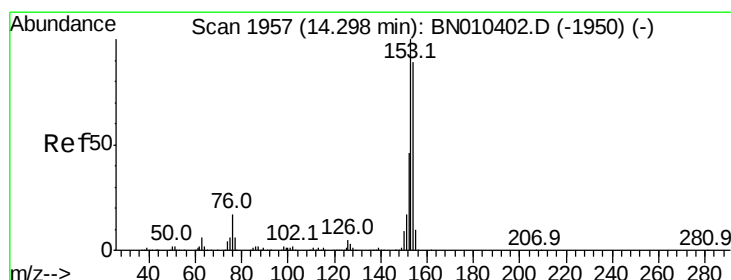
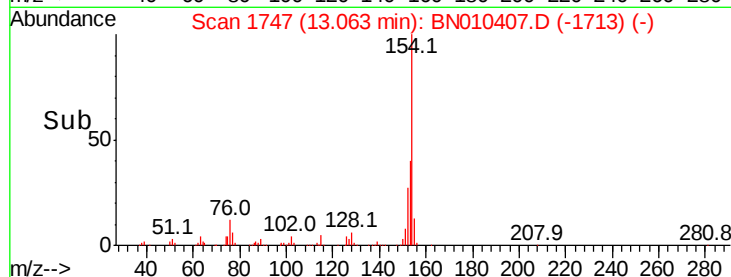
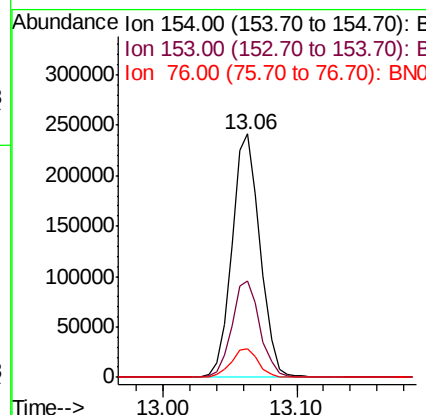
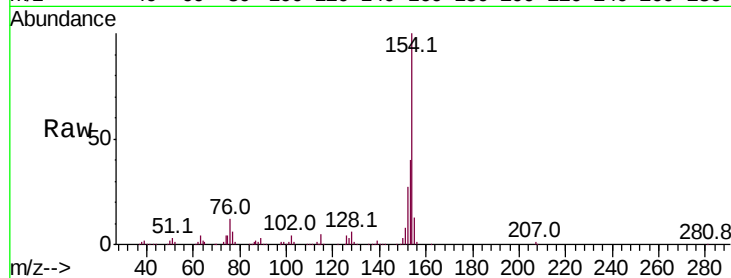




#41  
 1,1'-Biphenyl  
 Concen: 4.276 ng/ul  
 RT: 13.06 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: BN010407.D  
 Acq: 03 Apr 2020 11:52

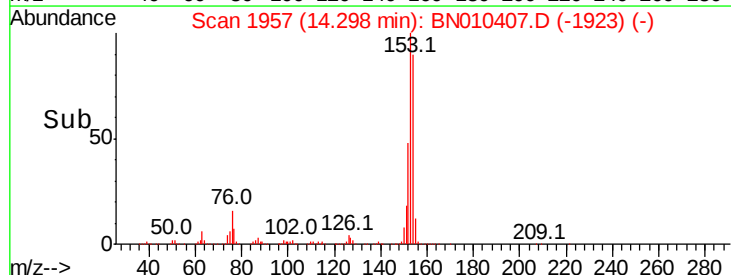
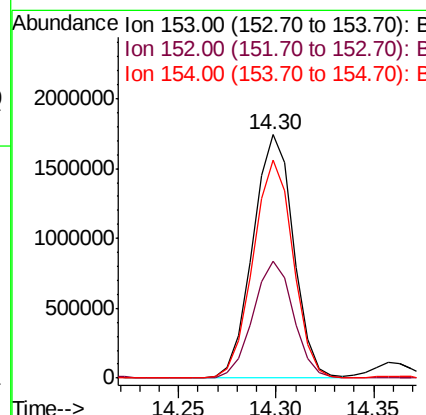
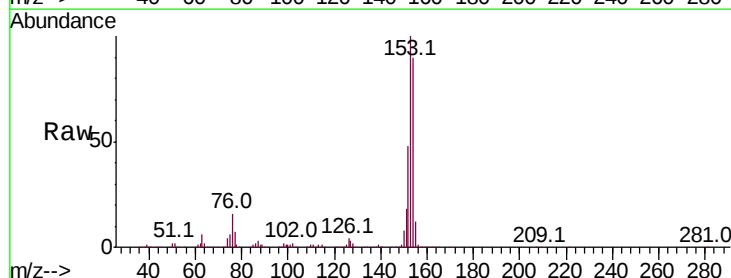
Instrument :  
 BNA\_N  
 ClientSampleId :  
 DBF16DL

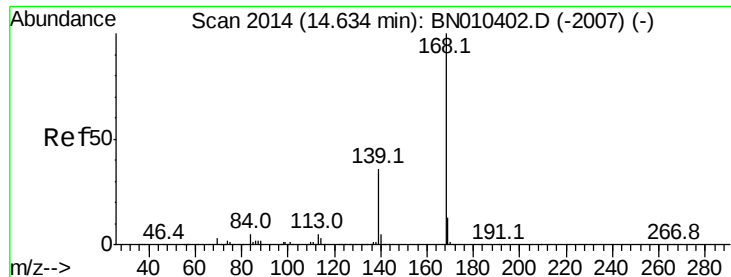
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 39.8  | 32.6  | 49.0  |
| 76      | 11.7  | 9.4   | 14.2  |



#50  
 Acenaphthene  
 Concen: 35.278 ng/ul  
 RT: 14.30 min Scan# 1957  
 Delta R.T. 0.00 min  
 Lab File: BN010407.D  
 Acq: 03 Apr 2020 11:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.9  | 37.8  | 56.6  |
| 154     | 89.6  | 69.1  | 103.7 |





#54

Dibenzenofuran

Concen: 20.299 ng/ul

RT: 14.63 min Scan# 2014

Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

Instrument :

BNA\_N

ClientSampleId :

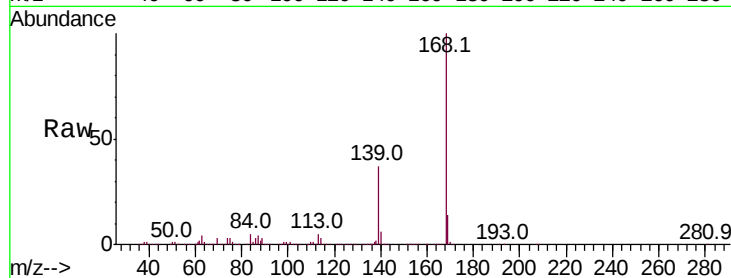
DBF16DL

Tot Ion:168 Resp: 2033689

Ion Ratio Lower Upper

168 100

139 36.5 29.0 43.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.63

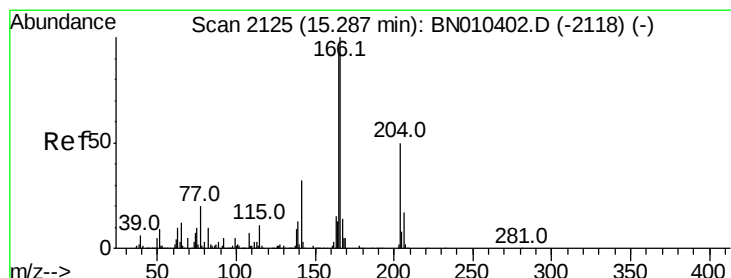
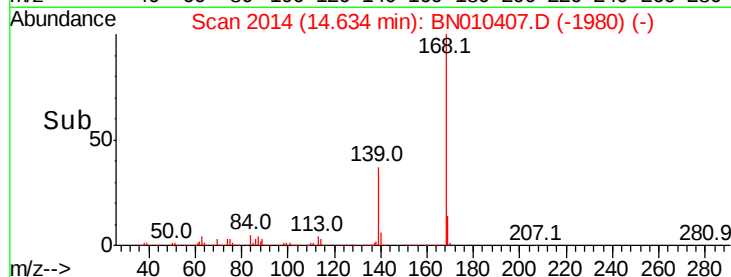
1500000

1000000

500000

0

Time--> 14.55 14.60 14.65 14.70



#59

Fluorene

Concen: 22.754 ng/ul

RT: 15.29 min Scan# 2125

Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

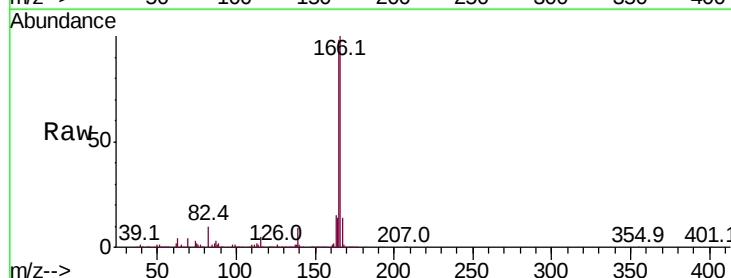
Tgt Ion:166 Resp: 1855334

Ion Ratio Lower Upper

166 100

165 97.5 77.6 116.4

167 14.1 10.7 16.1



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

15.29

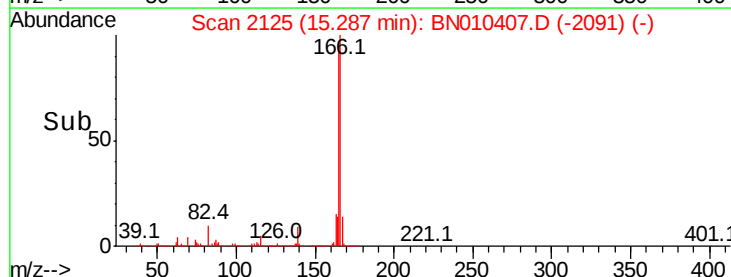
1500000

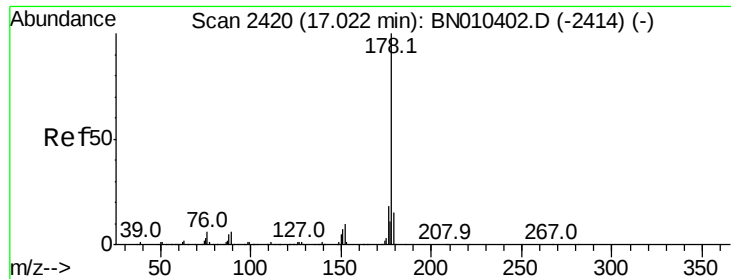
1000000

500000

0

Time--> 15.25 15.30





#70

Phenanthrene

Concen: 44.736 ng/ul

RT: 17.02 min Scan# 2420

Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

Instrument :

BNA\_N

ClientSampleId :

DBF16DL

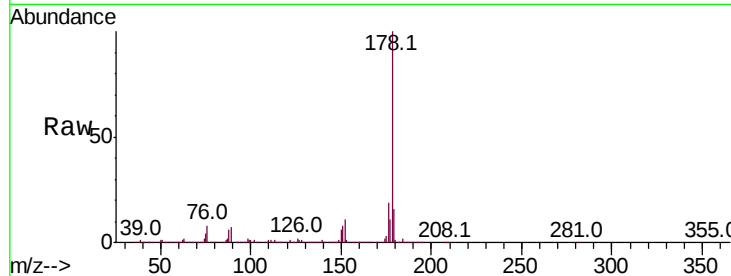
Tot Ion:178 Resp: 6297052

Ion Ratio Lower Upper

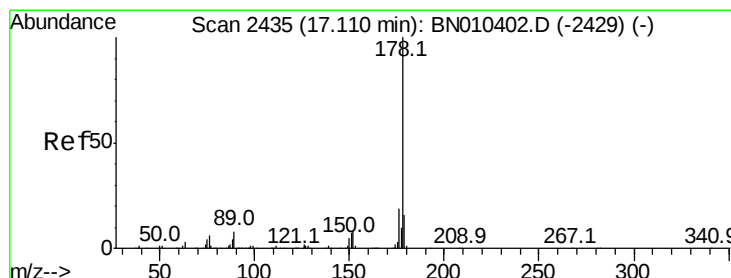
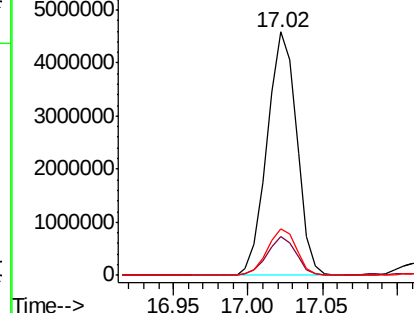
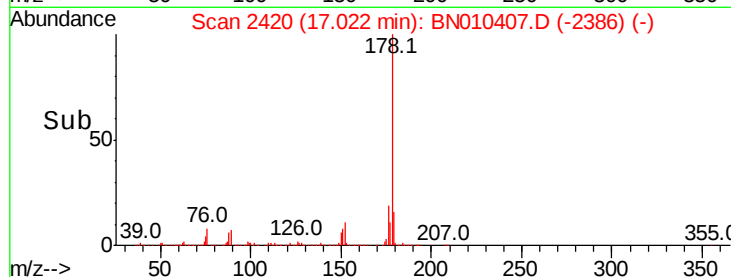
178 100

179 15.7 11.9 17.9

176 19.3 15.4 23.2



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



#72

Anthracene

Concen: 2.467 ng/ul

RT: 17.11 min Scan# 2435

Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

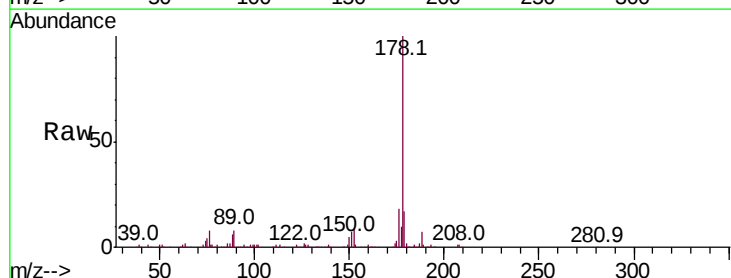
Tgt Ion:178 Resp: 347291

Ion Ratio Lower Upper

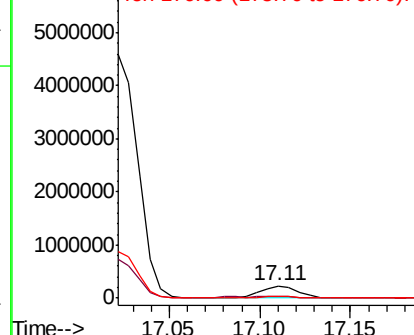
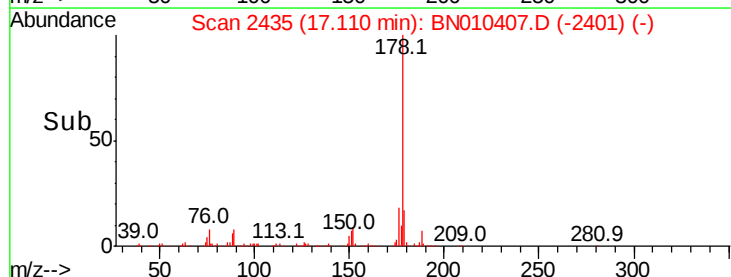
178 100

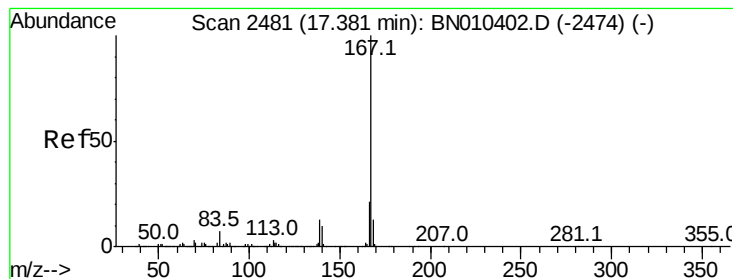
179 16.6 12.9 19.3

176 18.5 15.2 22.8



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





#75

Carbazole

Concen: 4.292 ng/ul

RT: 17.38 min Scan# 2481

Delta R.T. 0.00 min

Lab File: BN010407.D

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BNA\_N

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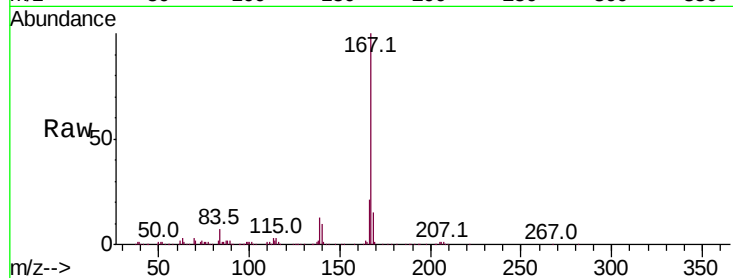
Tot Ion:167 Resp: 502474

Ion Ratio Lower Upper

167 100

166 20.6 17.3 25.9

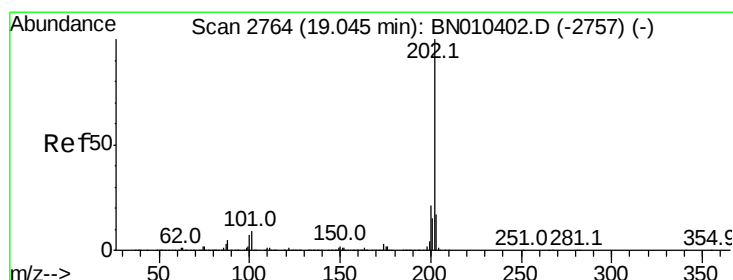
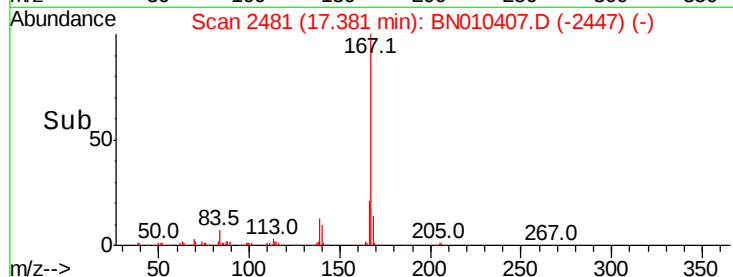
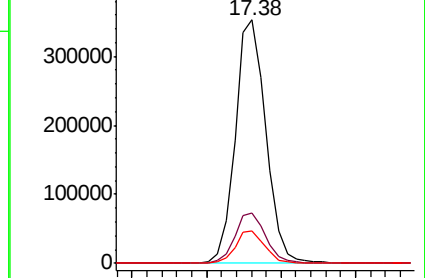
139 13.1 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Fluoranthene

Concen: 9.485 ng/ul

RT: 19.05 min Scan# 2764

Delta R.T. 0.00 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

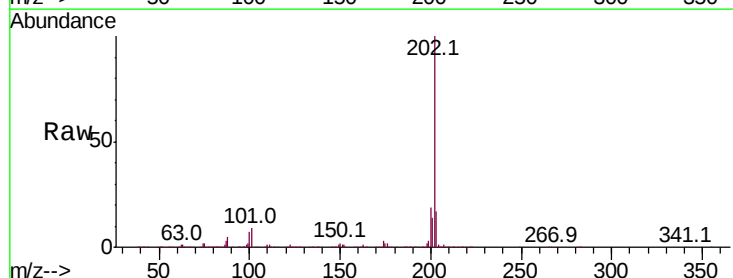
Tgt Ion:202 Resp: 1421853

Ion Ratio Lower Upper

202 100

101 8.8 8.1 12.1

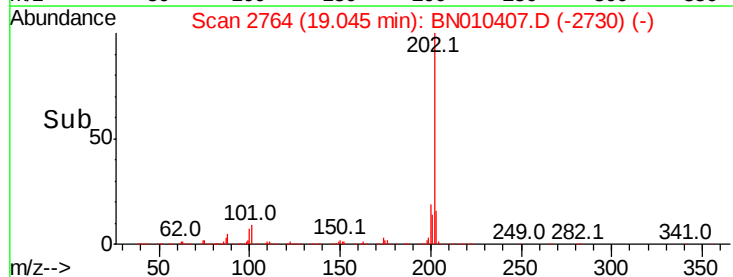
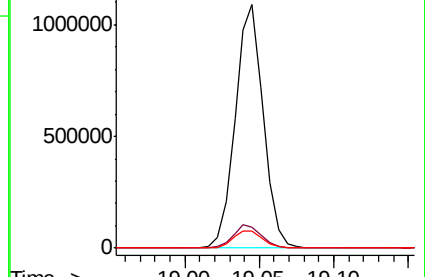
100 7.0 6.2 9.4

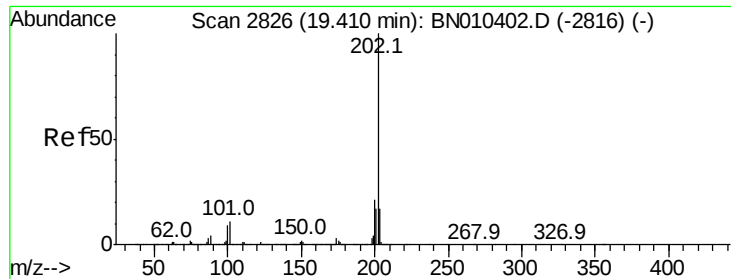


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pvrene

Concen: 4.365 ng/ul

RT: 19.40 min Scan# 2825

Delta R.T. -0.01 min

Lab File: BN010407.D

Acq: 03 Apr 2020 11:52

Instrument :

BNA\_N

ClientSampleId :

DBF16DL

Tot Ion:202 Resp: 844164

Ion Ratio Lower Upper

202 100

101 12.2 9.6 14.4

100 10.1 8.1 12.1

