

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\  
 Data File : BN005413.D  
 Acq On : 01 May 2019 16:31  
 Operator : JU/SJ  
 Sample : K2481-22MEDL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHX5MEDL

Manual Integrations  
 APPROVED

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 5/2/2019 4:57:25 PM

Quant Time: May 02 00:33:37 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 25 03:19:34 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 505765   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 2134062  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1242039  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 2565105  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 1758796  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.42 | 264  | 1850883  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 8485m  | 0.81 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 181112 | 4.56 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 114654 | 4.63 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 155455 | 5.11 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.30  | 113 | 145298 | 4.68 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.74  | 128 | 78468  | 5.97 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 80023  | 6.01 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 153058 | 5.01 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 214419 | 6.81 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 500584 | 5.55 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 608160 | 5.49 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 48702  | 3.42 | ng/ul | 0.02  |
| 57) Fluorene-d10               | 15.23 | 176 | 434483 | 5.74 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.36 | 200 | 18480  | 1.60 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.08 | 188 | 640467 | 5.96 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 611668 | 6.80 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 483924 | 5.98 | ng/ul | -0.03 |

## Target Compounds

|                          |       |     |         |        | Ovalue |     |
|--------------------------|-------|-----|---------|--------|--------|-----|
| 28) Naphthalene          | 10.40 | 128 | 2666055 | 26.873 | ng/ul  | 99  |
| 34) 2-Methylnaphthalene  | 12.02 | 142 | 1019267 | 14.031 | ng/ul  | 96  |
| 40) 1,1'-Biphenyl        | 13.05 | 154 | 127730  | 1.380  | ng/ul  | 98  |
| 44) Dimethylphthalate    | 13.69 | 163 | 102615  | 1.142  | ng/ul  | 98  |
| 47) Acenaphthylene       | 13.95 | 152 | 445498  | 4.094  | ng/ul# | 97  |
| 53) Dibenzofuran         | 14.63 | 168 | 272018  | 2.543  | ng/ul  | 97  |
| 58) Fluorene             | 15.28 | 166 | 370883  | 4.443  | ng/ul  | 99  |
| 69) Phenanthrene         | 17.03 | 178 | 1520271 | 12.169 | ng/ul  | 99  |
| 71) Anthracene           | 17.12 | 178 | 414080  | 3.254  | ng/ul  | 97  |
| 76) Fluoranthene         | 19.06 | 202 | 680345  | 4.910  | ng/ul  | 97  |
| 79) Pyrene               | 19.42 | 202 | 616347  | 5.443  | ng/ul  | 97  |
| 82) Benzo(a)anthracene   | 21.20 | 228 | 242571  | 2.217  | ng/ul  | 95  |
| 84) Chrysene             | 21.24 | 228 | 186800m | 1.840  | ng/ul  |     |
| 87) Benzo(b)fluoranthene | 22.76 | 252 | 160981  | 1.547  | ng/ul  | 100 |
| 90) Benzo(a)pyrene       | 23.32 | 252 | 142587  | 1.458  | ng/ul  | 98  |

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

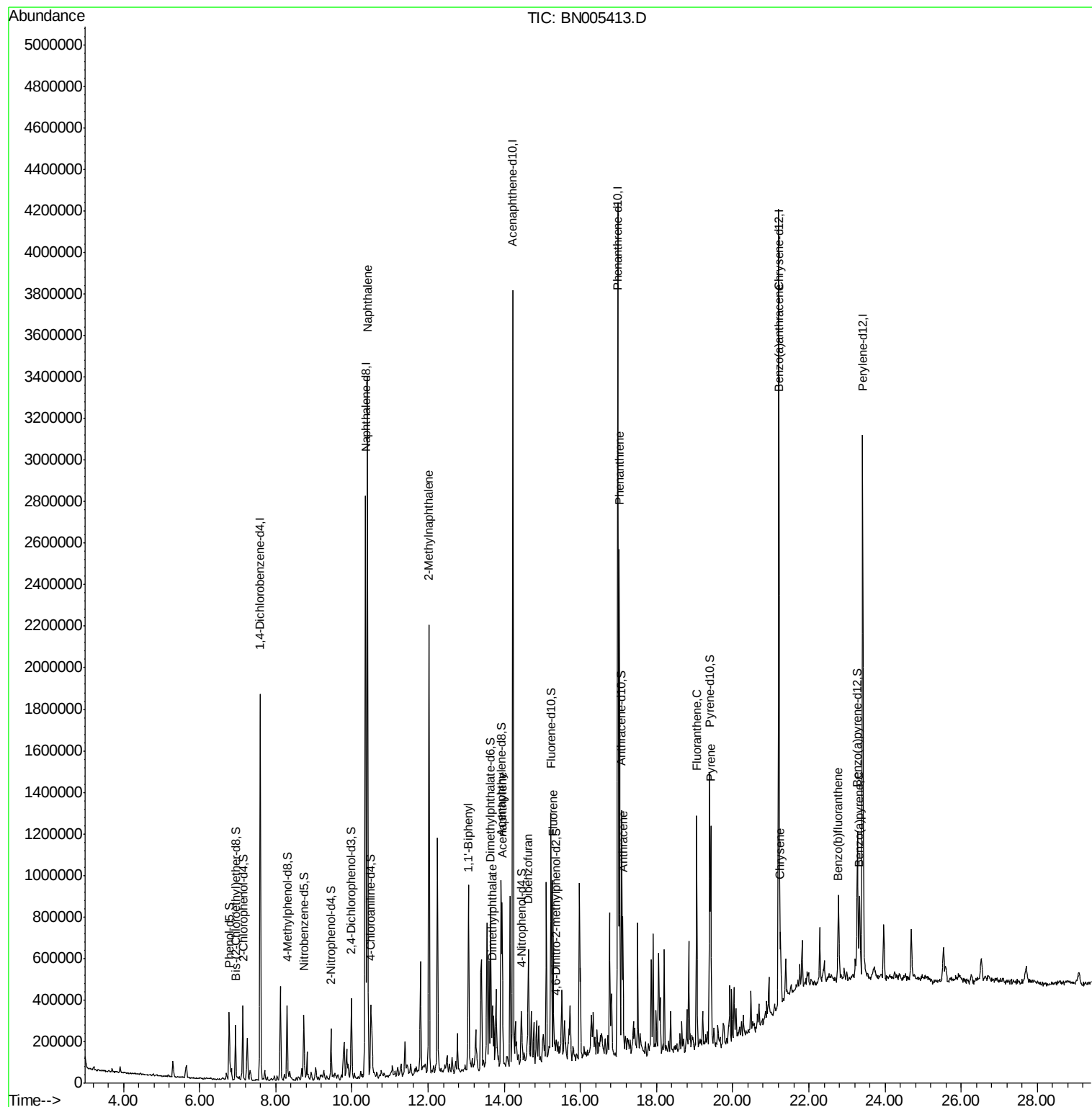
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\  
Data File : BN005413.D  
Acq On : 01 May 2019 16:31  
Operator : JU/SJ  
Sample : K2481-22MEDL 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

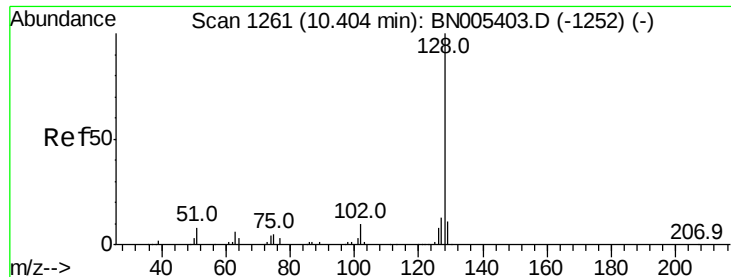
Instrument :  
BNA\_N  
ClientSampleId :  
GAHX5MEDL

Manual Integrations  
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Quant Time: May 02 00:33:37 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Apr 25 03:19:34 2019  
Response via : Initial Calibration





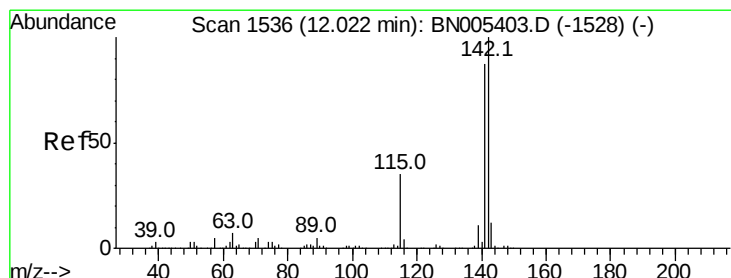
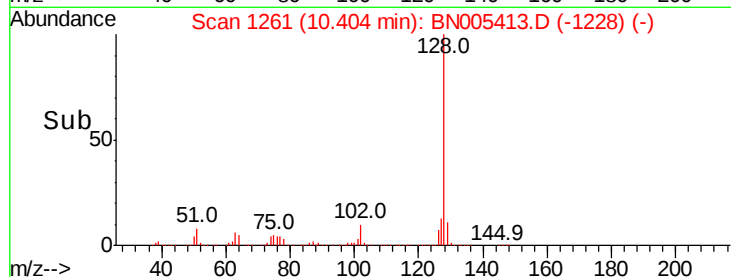
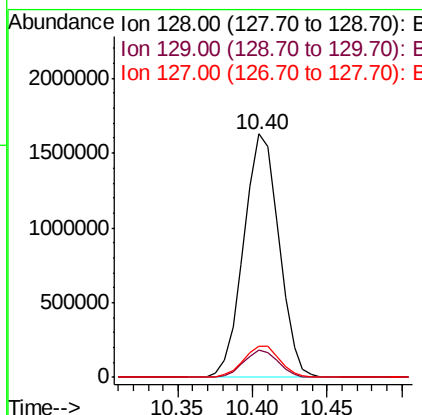
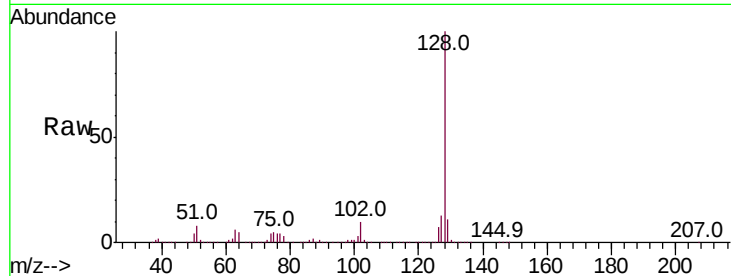
#28  
Naphthalene  
Concen: 26.873 ng/ul  
RT: 10.40 min Scan# 1261  
Delta R.T. -0.01 min  
Lab File: BN005413.D  
Acq: 01 May 2019 16:31

Instrument :  
BNA\_N  
ClientSampleId :  
GAHX5MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.2  | 9.2   | 13.8  |
| 127     | 13.0  | 10.7  | 16.1  |

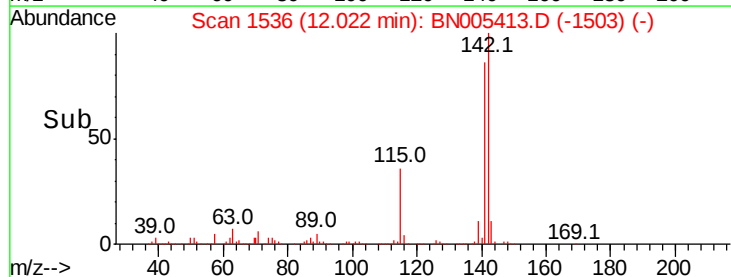
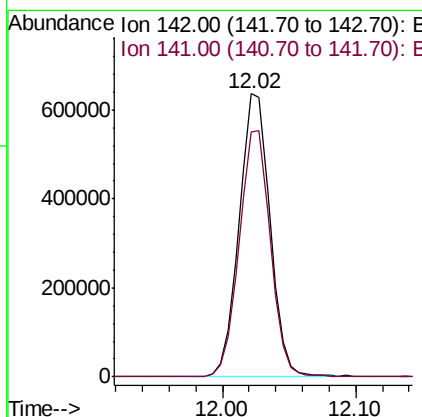
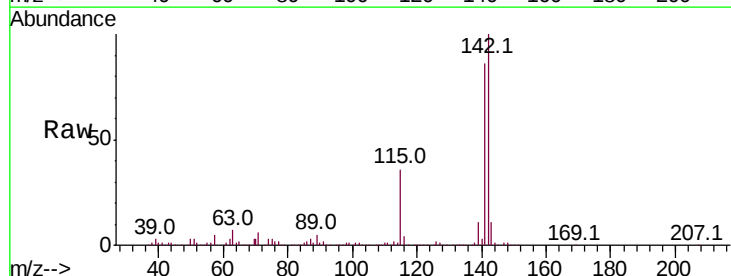
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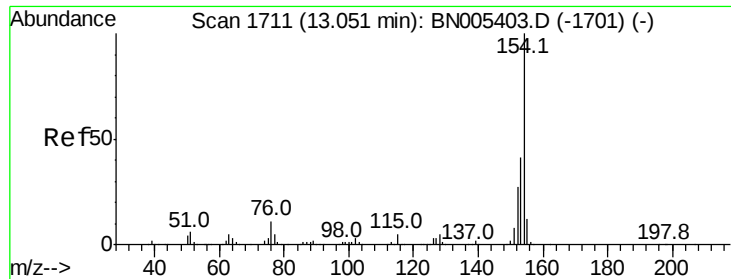
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#34  
2-Methylnaphthalene  
Concen: 14.031 ng/ul  
RT: 12.02 min Scan# 1536  
Delta R.T. -0.01 min  
Lab File: BN005413.D  
Acq: 01 May 2019 16:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.3  | 72.0  | 108.0 |





#40

1,1'-Biphenyl

Concen: 1.380 ng/ul

RT: 13.05 min Scan# 1711

Delta R.T. -0.01 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

Instrument :

BNA\_N

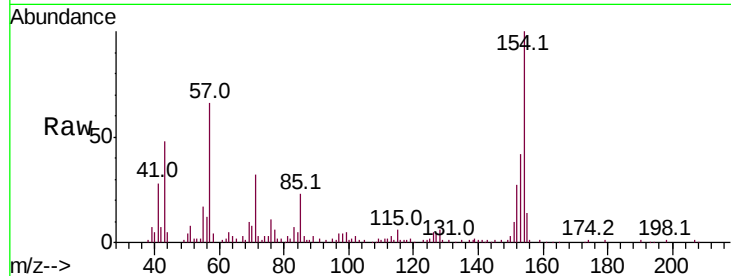
ClientSampleId :

GAHX5MEDL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 127730 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 41.5  | 32.6  | 49.0   |
| 76        | 11.0  | 10.4  | 15.6   |

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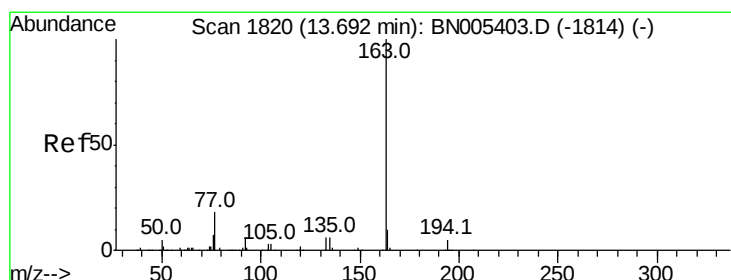
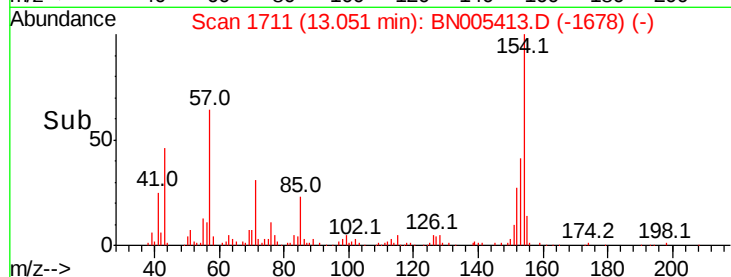
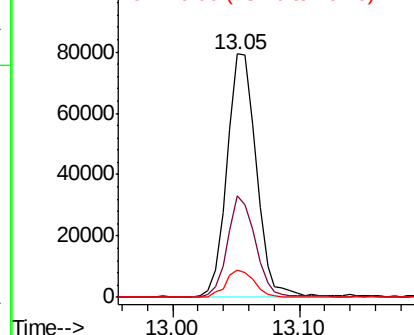


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNC



#44

Dimethylphthalate

Concen: 1.142 ng/ul

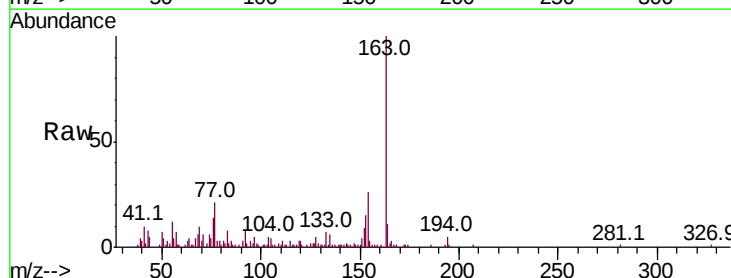
RT: 13.69 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 102615 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 5.0   | 3.4   | 5.0    |
| 164       | 10.7  | 8.1   | 12.1   |

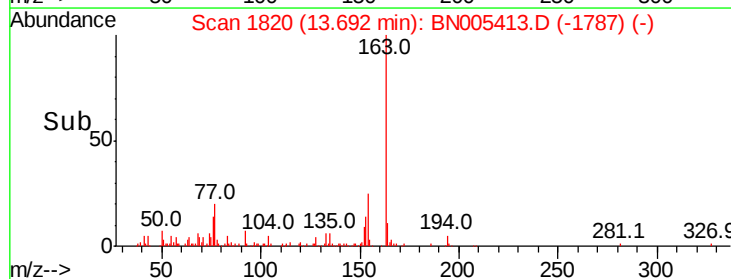
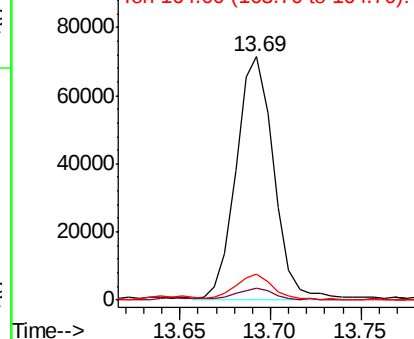


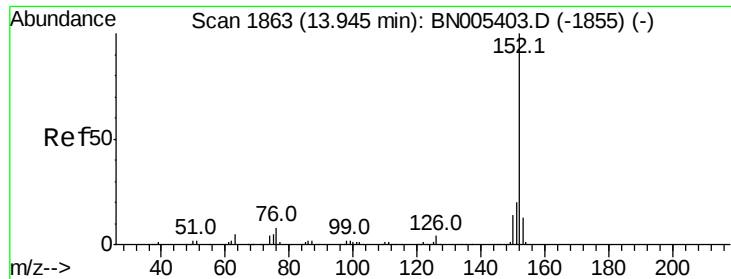
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#47

Acenaphthylene

Concen: 4.094 ng/ul

RT: 13.95 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

Instrument :

BNA\_N

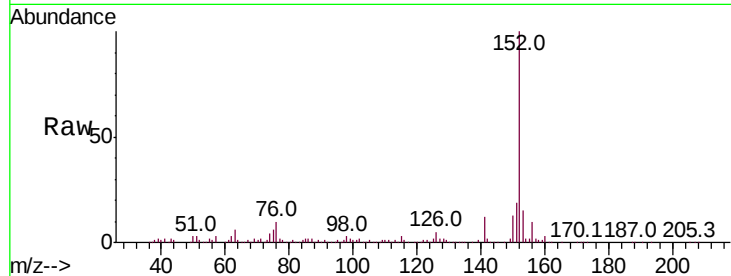
ClientSampleId :

GAHX5MEDL

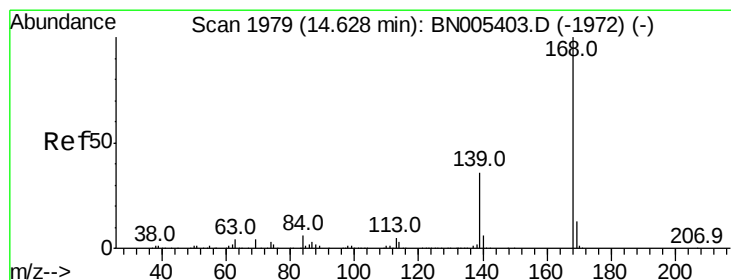
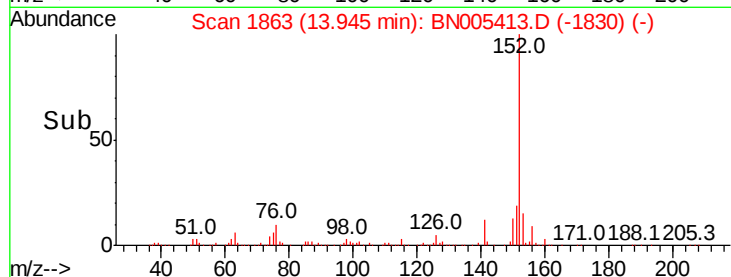
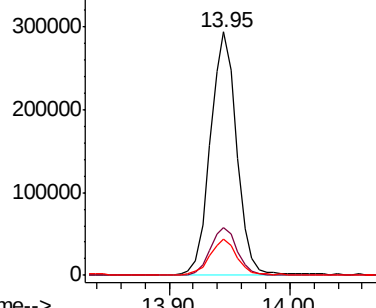
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 445498 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.5  | 15.8  | 23.8   |
| 153       | 15.1  | 9.8   | 14.8   |

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Abundance Ion 152.00 (151.70 to 152.70): E  
400000  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#53

Dibenzofuran

Concen: 2.543 ng/ul

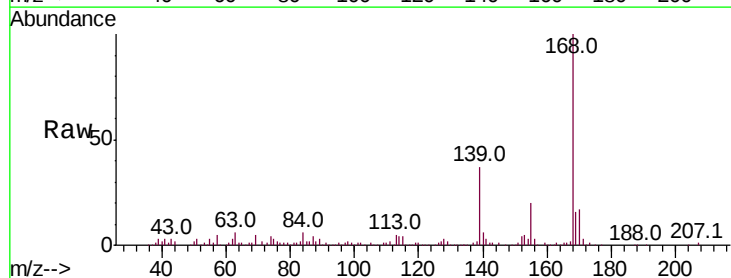
RT: 14.63 min Scan# 1979

Delta R.T. -0.01 min

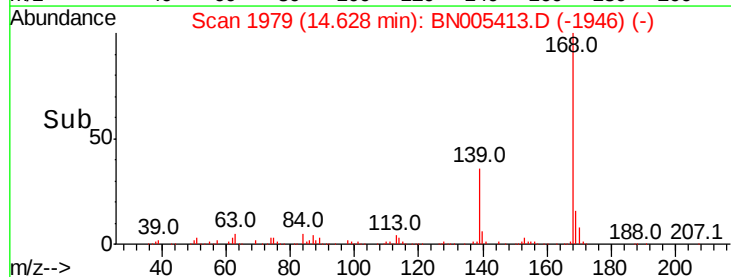
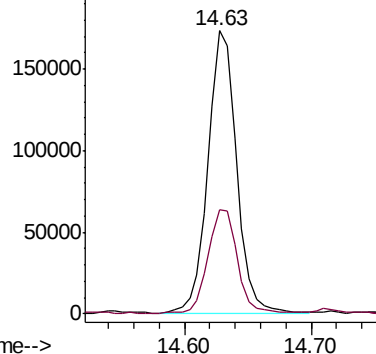
Lab File: BN005413.D

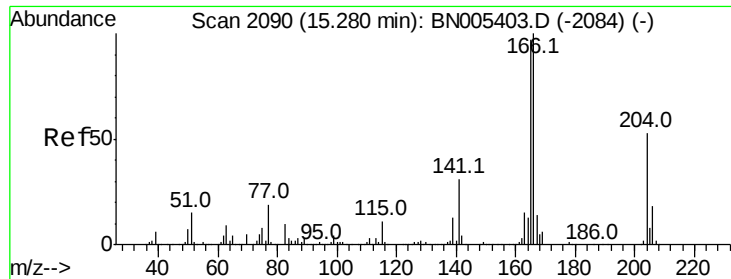
Acq: 01 May 2019 16:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 272018 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 37.0  | 30.9  | 46.3   |



Abundance Ion 168.00 (167.70 to 168.70): E  
200000  
Ion 139.00 (138.70 to 139.70): E





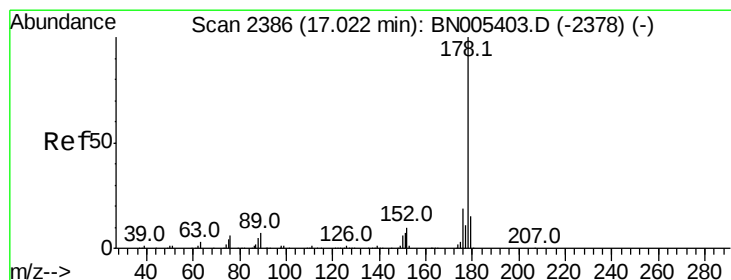
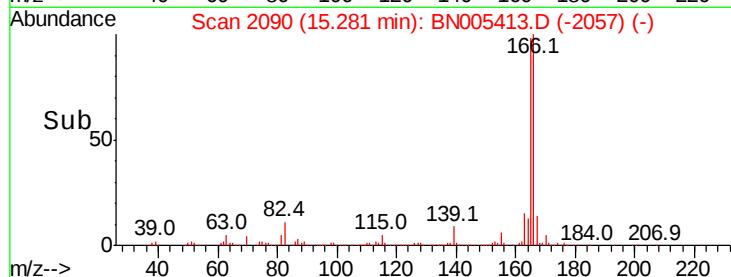
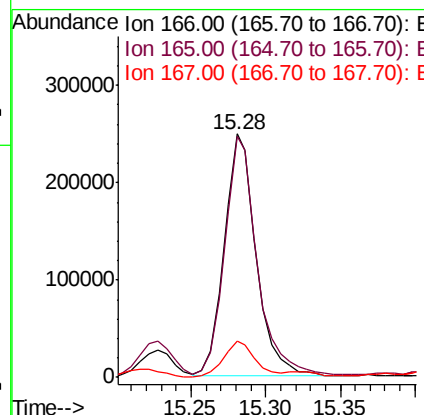
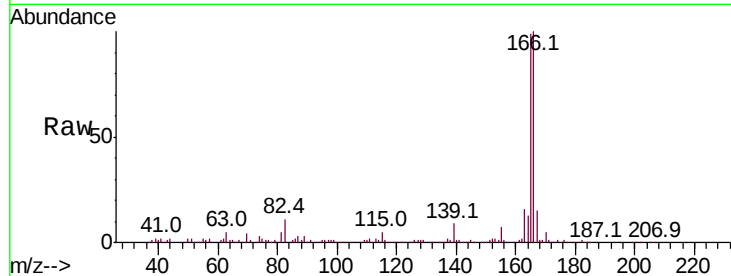
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**Fluorene**  
 Concen: 4.443 ng/ul  
 RT: 15.28 min Scan# 2090  
 Delta R.T. -0.01 min  
 Lab File: BN005413.D  
 Acq: 01 May 2019 16:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHX5MEDL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 370883 |       |       |
| 165     | 99.0  | 80.0   | 120.0 |       |
| 167     | 15.1  | 10.7   | 16.1  |       |

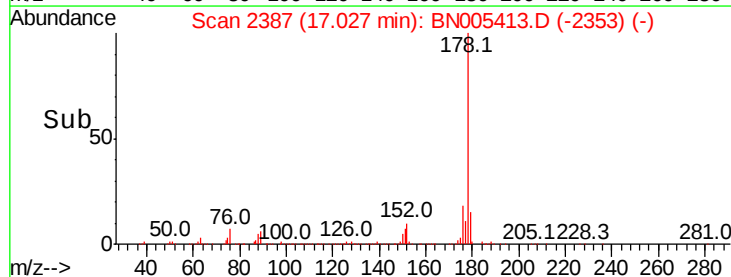
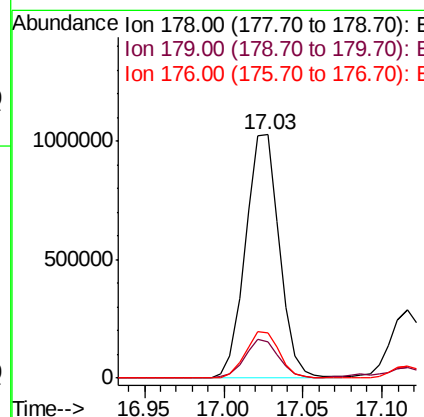
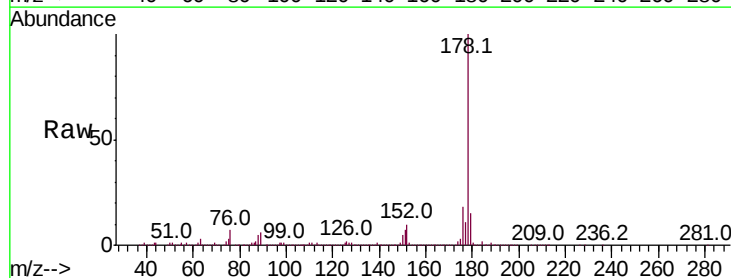
Manual Integrations  
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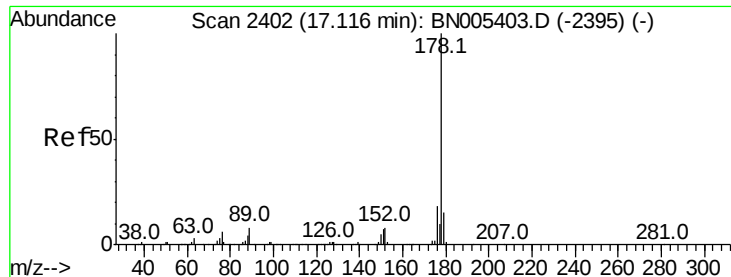
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#69  
**Phenanthrene**  
 Concen: 12.169 ng/ul  
 RT: 17.03 min Scan# 2387  
 Delta R.T. 0.00 min  
 Lab File: BN005413.D  
 Acq: 01 May 2019 16:31

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1520271 |       |       |
| 179     | 15.0  | 12.2    | 18.4  |       |
| 176     | 18.5  | 15.1    | 22.7  |       |





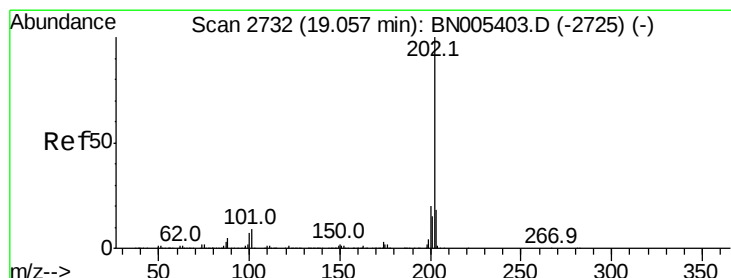
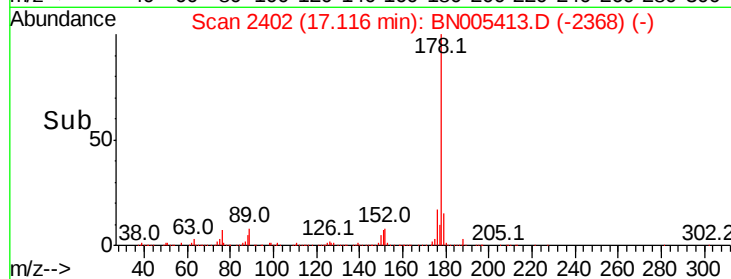
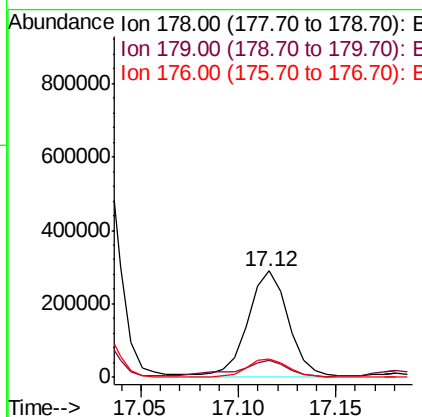
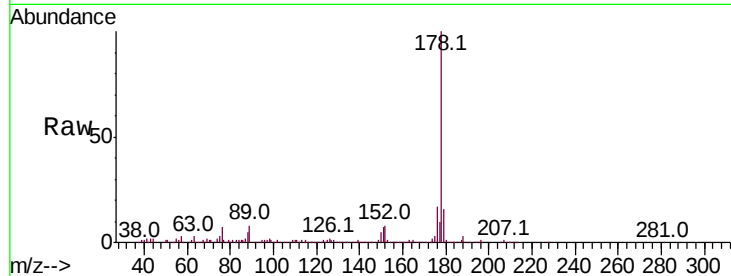
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 Anthracene  
 Concen: 3.254 ng/ul  
 RT: 17.12 min Scan# 2402  
 Delta R.T. 0.00 min  
 Lab File: BN005413.D  
 Acq: 01 May 2019 16:31

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHX5MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.3  | 18.5  |
| 176     | 16.8  | 15.1  | 22.7  |

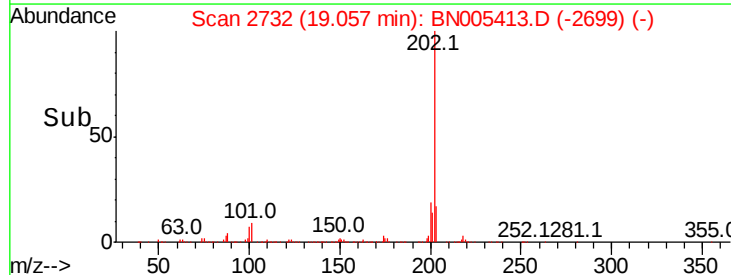
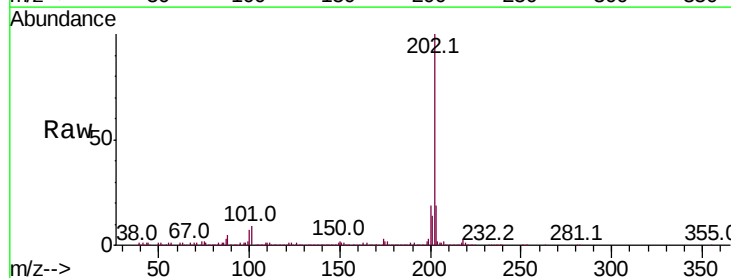
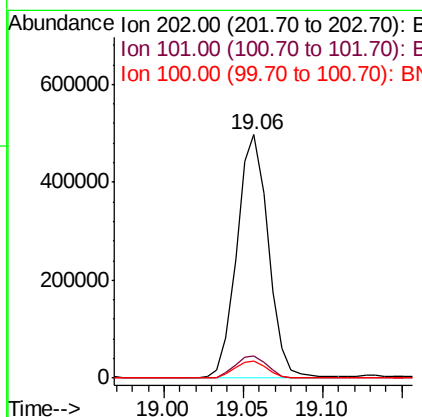
Manual Integrations  
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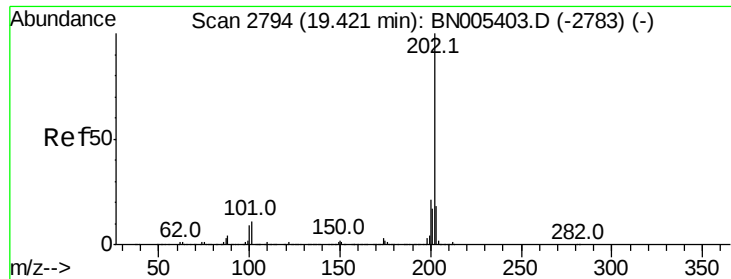
Sohil  
 5/2/2019 4:57:25 PM



#76  
 Fluoranthene  
 Concen: 4.910 ng/ul  
 RT: 19.06 min Scan# 2732  
 Delta R.T. -0.01 min  
 Lab File: BN005413.D  
 Acq: 01 May 2019 16:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 8.6   | 12.8  |
| 100     | 7.3   | 6.3   | 9.5   |





#79

Pvrene

Concen: 5.443 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

Instrument :

BNA\_N

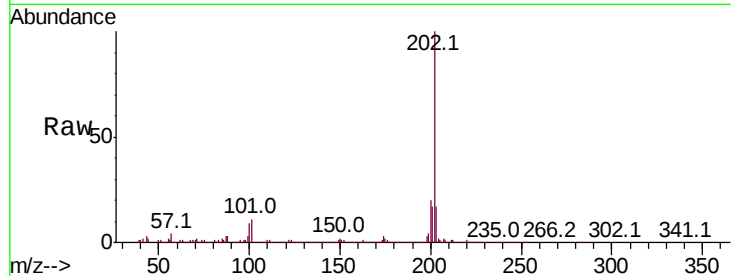
ClientSampleId :

GAHX5MEDL

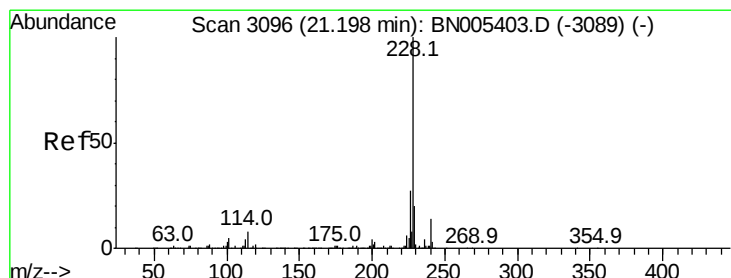
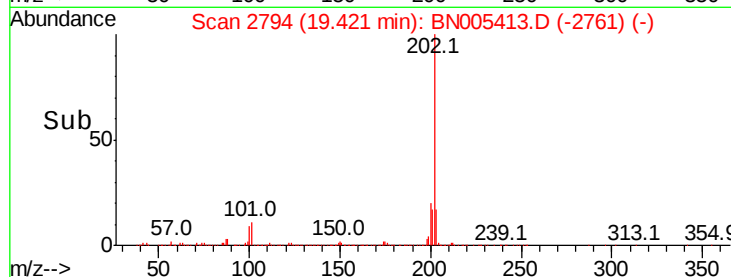
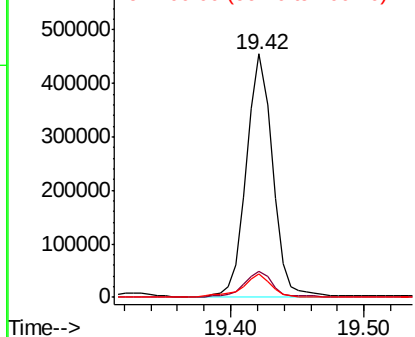
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 616347 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.9  | 10.3  | 15.5   |
| 100       | 9.4   | 7.9   | 11.9   |

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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): B



#82

Benzo(a)anthracene

Concen: 2.217 ng/ul

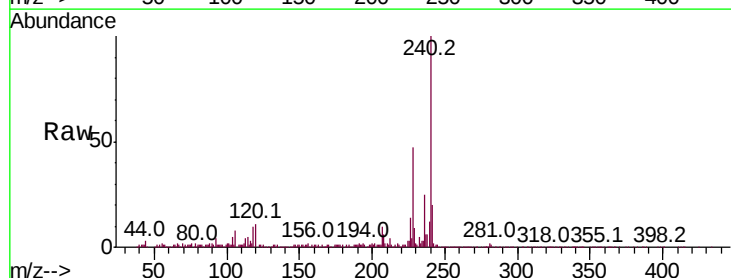
RT: 21.20 min Scan# 3096

Delta R.T. -0.01 min

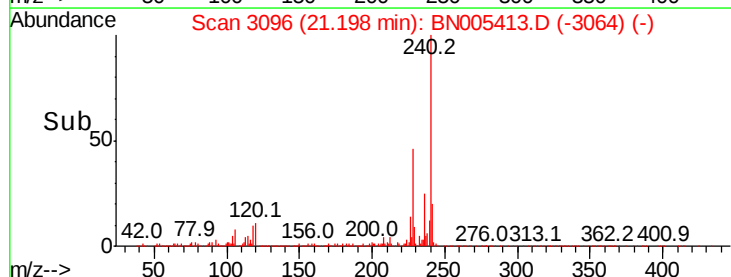
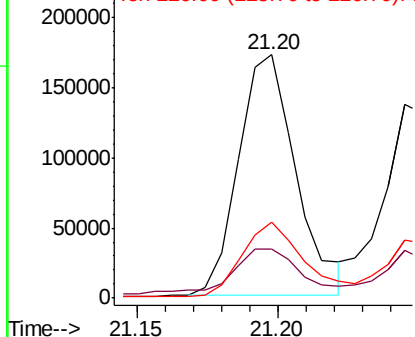
Lab File: BN005413.D

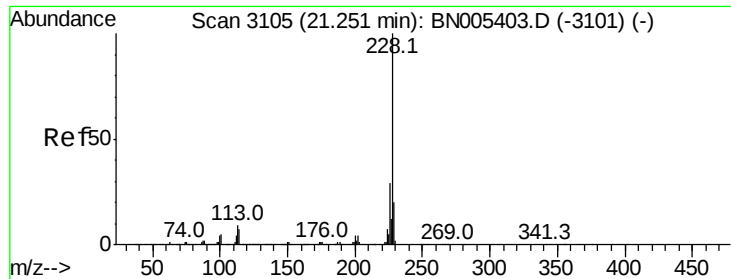
Acq: 01 May 2019 16:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 242571 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.3  | 15.8  | 23.6   |
| 226       | 31.1  | 21.4  | 32.2   |



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 1.840 ng/ul m

RT: 21.24 min Scan# 3104

Delta R.T. -0.02 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

Instrument :

BNA\_N

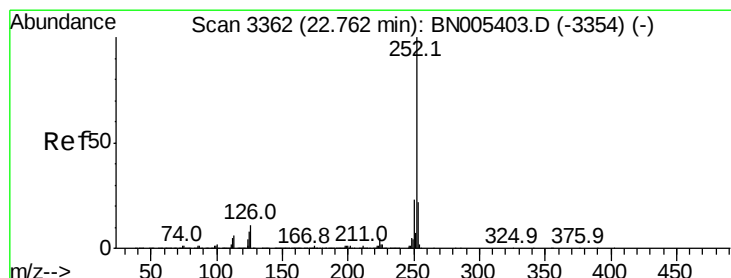
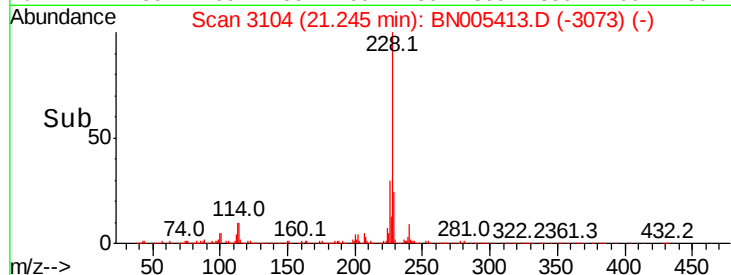
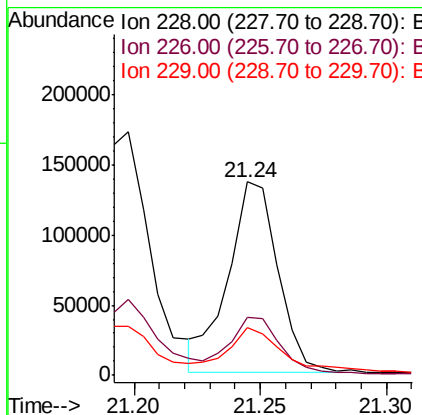
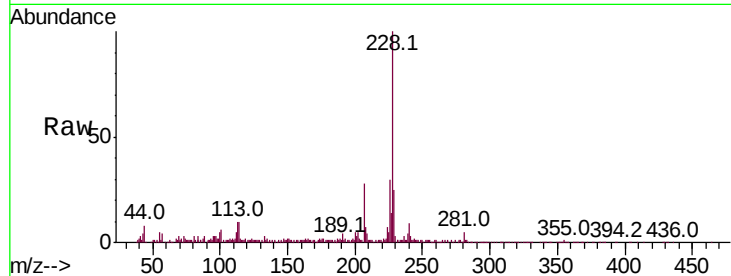
ClientSampleId :

GAHX5MEDL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 186800 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.0  | 24.0  | 36.0   |
| 229       | 24.6  | 15.4  | 23.0   |

Manual Integrations  
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#87

Benzo(b)fluoranthene

Concen: 1.547 ng/ul

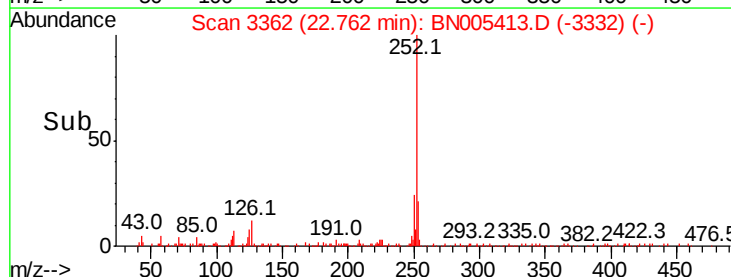
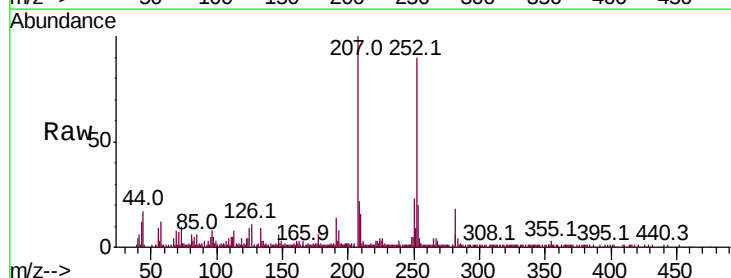
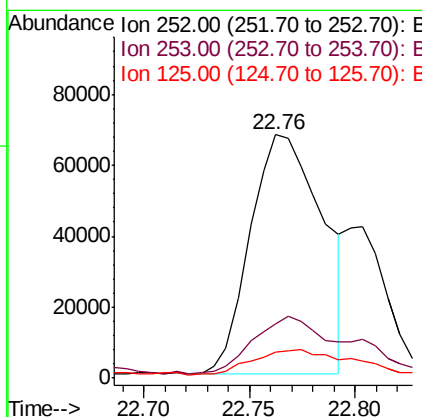
RT: 22.76 min Scan# 3362

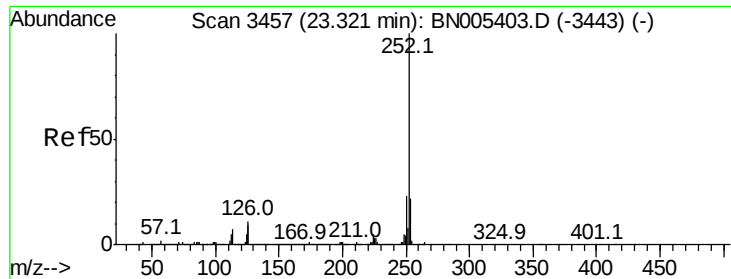
Delta R.T. -0.02 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 160981 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.7  | 26.5   |
| 125       | 10.5  | 8.4   | 12.6   |





#90

Benzo(a)pyrene

Concen: 1.458 ng/ul

RT: 23.32 min Scan# 3456

Delta R.T. -0.03 min

Lab File: BN005413.D

Acq: 01 May 2019 16:31

Instrument :

BNA\_N

ClientSampleId :

GAHX5MEDL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 142587 |       |       |
| 253     | 21.8  |        | 17.3  | 25.9  |
| 125     | 12.3  |        | 8.6   | 13.0  |

Manual Integrations  
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