

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\  
 Data File : BG020082.D  
 Acq On : 10 Dec 2015 19:15  
 Operator : UM/SJ  
 Sample : G4683-09  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S21-15

Manual Integrations  
 APPROVED

MMdadoda  
 12/11/2015 6:02:29 PM

Quant Time: Dec 11 05:58:09 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.11  | 152  | 19654    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8          | 10.93 | 136  | 84837    | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10        | 14.74 | 164  | 57013    | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 17.48 | 188  | 135627   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 21.76 | 240  | 166050   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 25.04 | 264  | 159045   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 171051   | 157.30 | ng    | -0.01    |
| 7) Phenol-d6                | 7.27  | 99   | 258742   | 157.59 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.28  | 82   | 172536   | 103.79 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.23 | 330  | 128784   | 147.63 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 13.36 | 172  | 342584   | 82.05  | ng    | -0.03    |
| 78) Terphenyl-d14           | 20.08 | 244  | 584913   | 85.92  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 7.29  | 94   | 5237     | 3.03   | ng    | 77       |
| 31) Naphthalene             | 10.98 | 128  | 41534    | 9.14   | ng    | 96       |
| 37) 2-Methylnaphthalene     | 12.58 | 142  | 16234    | 4.87   | ng    | 89       |
| 48) Acenaphthylene          | 14.46 | 152  | 24001    | 3.91   | ng    | # 97     |
| 49) Dimethylphthalate       | 14.18 | 163  | 134045   | 26.14  | ng    | 97       |
| 51) Acenaphthene            | 14.80 | 154  | 54110    | 14.52  | ng    | 95       |
| 54) Dibenzofuran            | 15.13 | 168  | 64424    | 11.62  | ng    | 95       |
| 57) Fluorene                | 15.78 | 166  | 77633    | 15.64  | ng    | 96       |
| 70) Phenanthrene            | 17.53 | 178  | 1028360  | 134.01 | ng    | 99       |
| 71) Anthracene              | 17.62 | 178  | 248479   | 31.79  | ng    | 94       |
| 72) Carbazole               | 17.88 | 167  | 84767    | 12.31  | ng    | 96       |
| 74) Fluoranthene            | 19.53 | 202  | 1054750  | 107.46 | ng    | 95       |
| 77) Pvrene                  | 19.89 | 202  | 932997   | 95.51  | ng    | 97       |
| 80) Benzo(a)anthracene      | 21.74 | 228  | 493889   | 48.59  | ng    | 100      |
| 82) Chrysene                | 21.81 | 228  | 438759   | 45.46  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 28.79 | 276  | 182455   | 17.16  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 24.00 | 252  | 425814m  | 42.24  | ng    |          |
| 88) Benzo(k)fluoranthene    | 24.06 | 252  | 165165m  | 16.54  | ng    |          |
| 89) Benzo(a)pvrene          | 24.89 | 252  | 345978m  | 36.15  | ng    |          |
| 90) Dibenzo(a,h)anthracene  | 28.82 | 278  | 50538    | 5.35   | ng    | # 91     |
| 91) Benzo(g,h,i)perylene    | 29.95 | 276  | 160061   | 17.24  | ng    | # 90     |

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

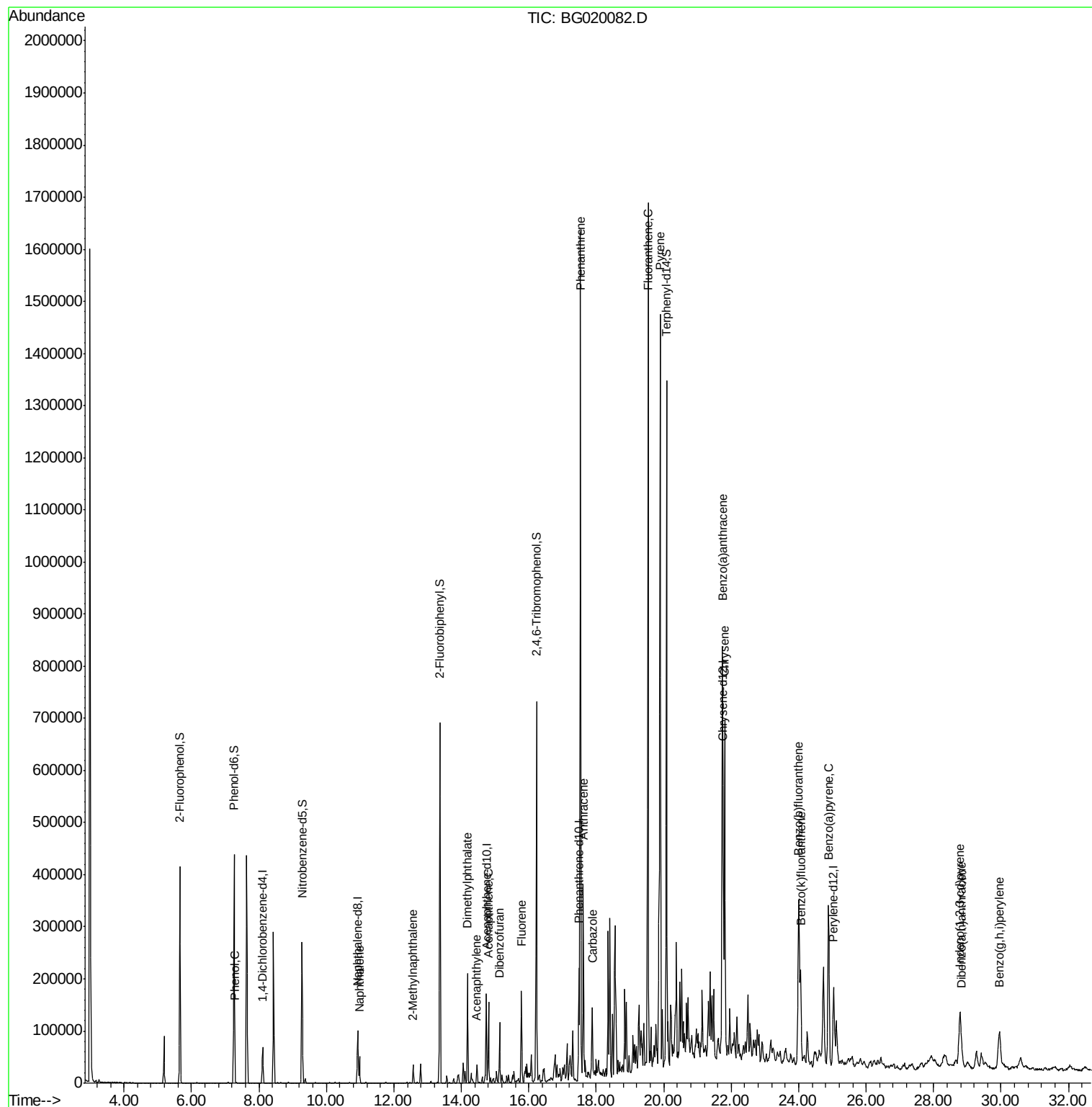
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\  
Data File : BG020082.D  
Acq On : 10 Dec 2015 19:15  
Operator : UM/SJ  
Sample : G4683-09  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

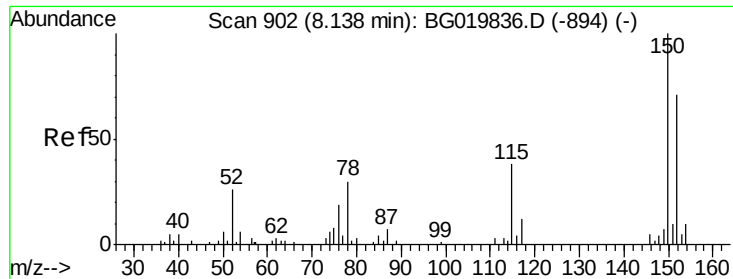
Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

Manual Integrations  
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12/11/2015 6:02:29 PM

Quant Time: Dec 11 05:58:09 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 02 18:50:01 2015  
Response via : Initial Calibration





#1

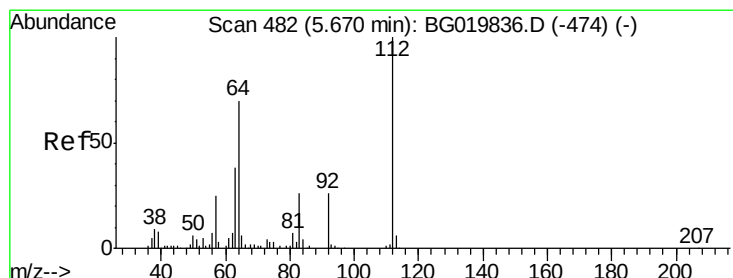
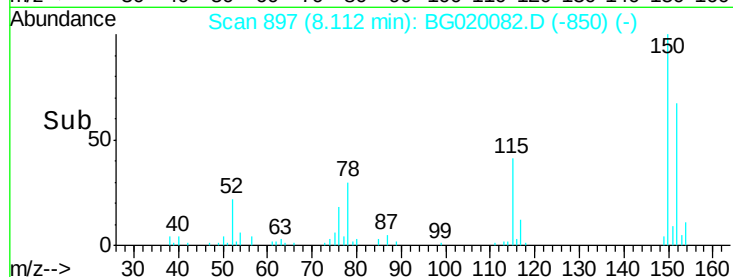
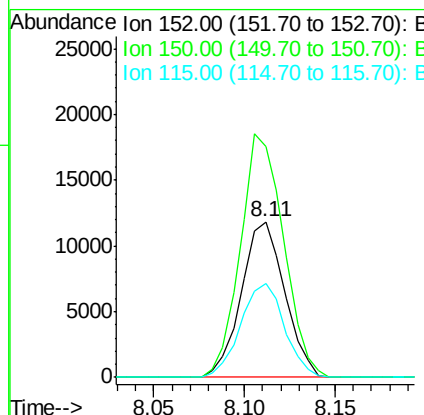
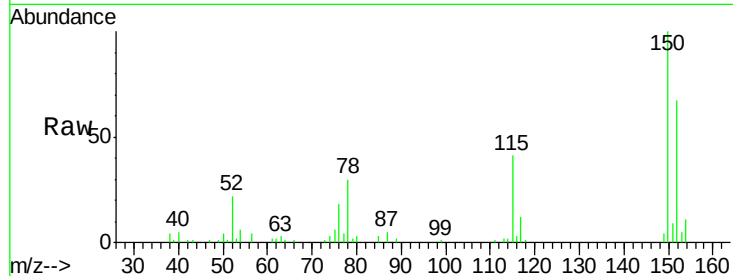
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.11 min Scan# 897  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampled :  
S21-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.9 | 115.0 | 172.4 |
| 115     | 60.4  | 43.9  | 65.9  |

Manual Integrations  
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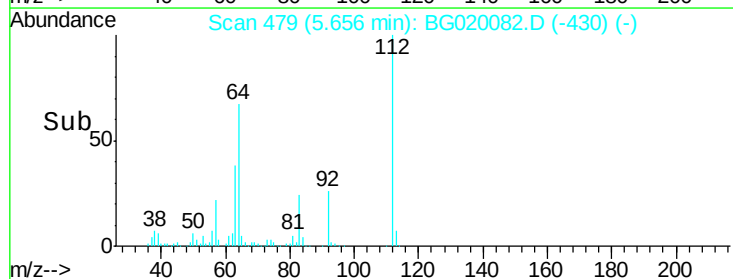
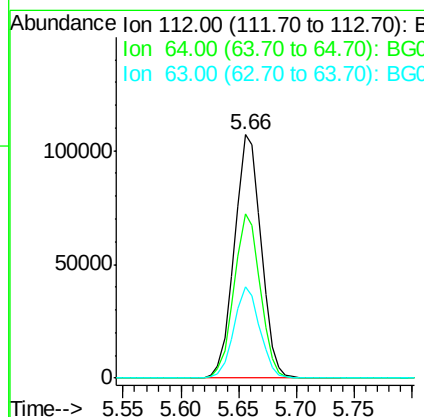
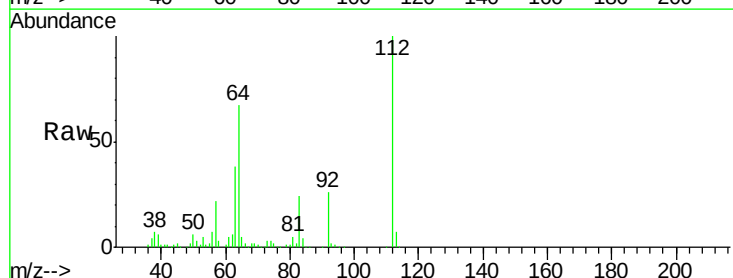
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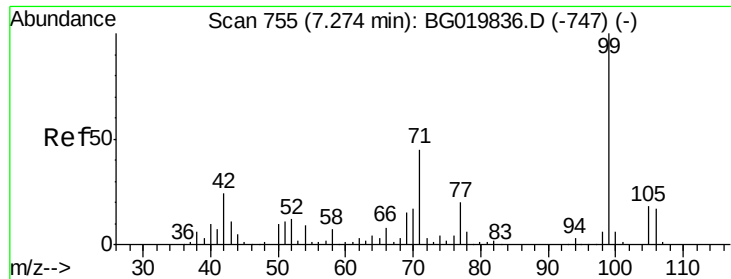


#5

2-Fluorophenol  
Concen: 157.30 ng  
RT: 5.66 min Scan# 479  
Delta R.T. -0.01 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.4  | 43.7  | 65.5# |
| 63      | 37.6  | 24.0  | 36.0# |





#7

Phenol-d6

Concen: 157.59 ng

RT: 7.27 min Scan# 753

Delta R.T. -0.01 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

Instrument :

BNA\_G

ClientSampleId :

S21-15

Tot Ion: 99 Resp: 258742

Ion Ratio Lower Upper

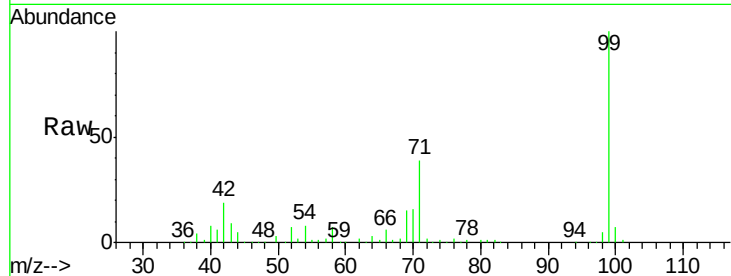
99 100

42 19.3 11.5 17.3#

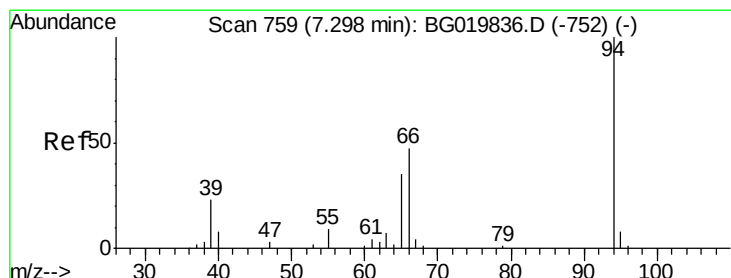
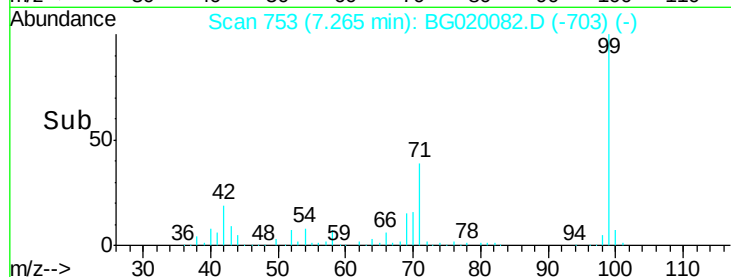
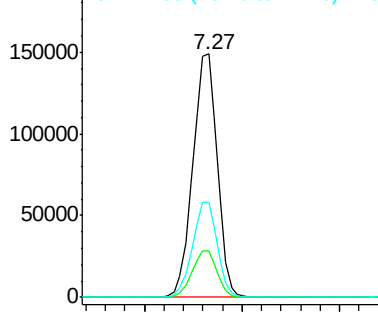
71 39.3 22.6 34.0#

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Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#10

Phenol

Concen: 3.03 ng

RT: 7.29 min Scan# 757

Delta R.T. -0.01 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

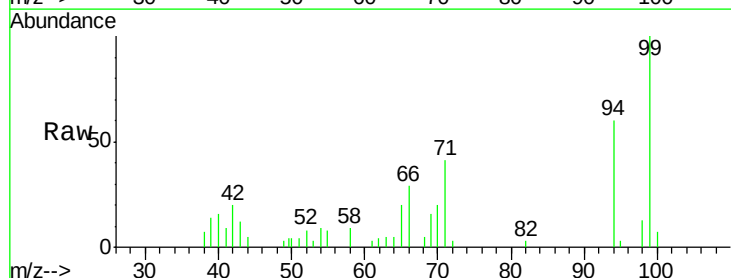
Tgt Ion: 94 Resp: 5237

Ion Ratio Lower Upper

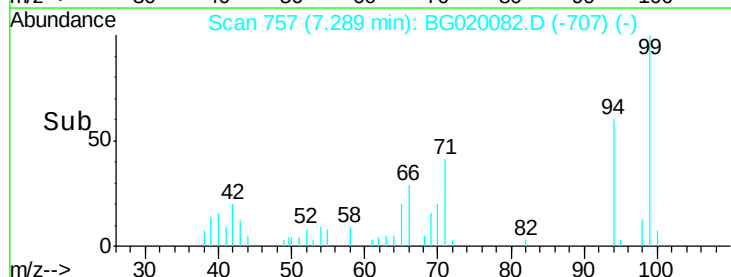
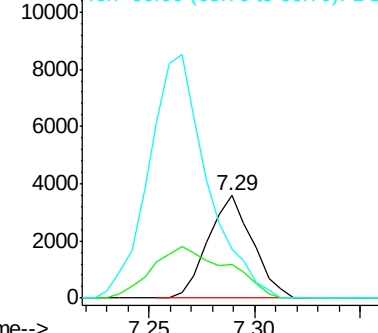
94 100

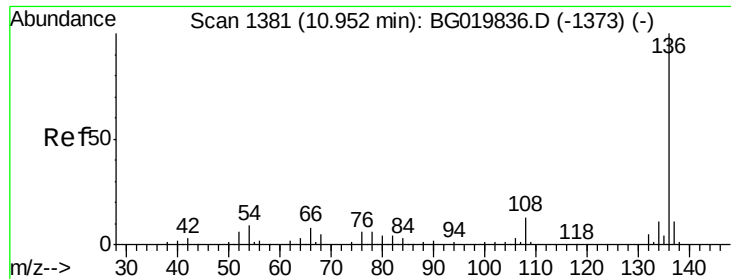
65 33.0 5.4 45.4

66 48.1 11.8 51.8



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC





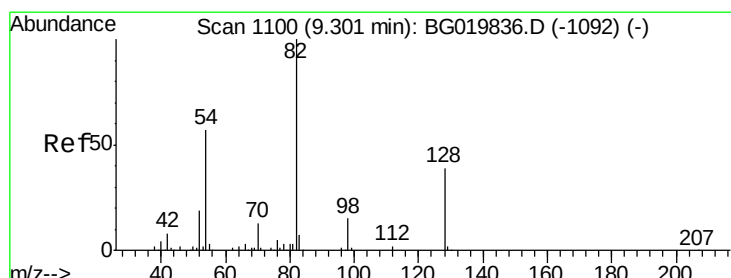
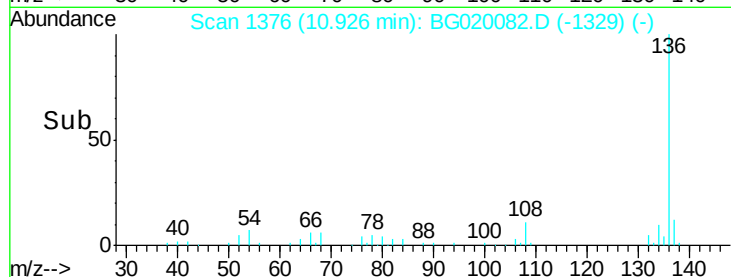
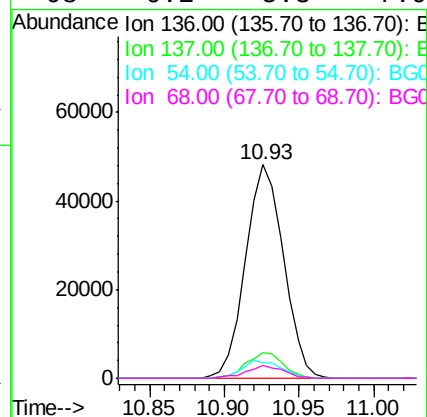
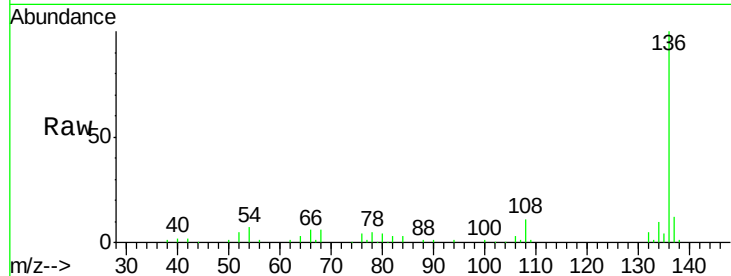
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.93 min Scan# 1376  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampled :  
S21-15

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 136     | 100  |       | 84837 |       |       |
| 137     | 11.9 |       | 8.6   | 12.8  |       |
| 54      | 7.4  |       | 5.4   | 8.2   |       |
| 68      | 6.2  |       | 5.3   | 7.9   |       |

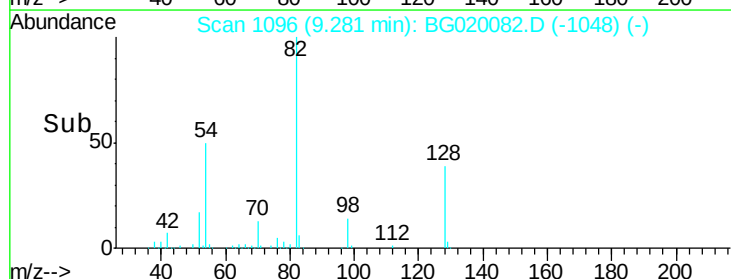
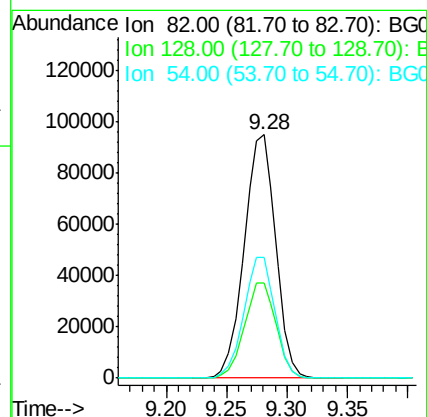
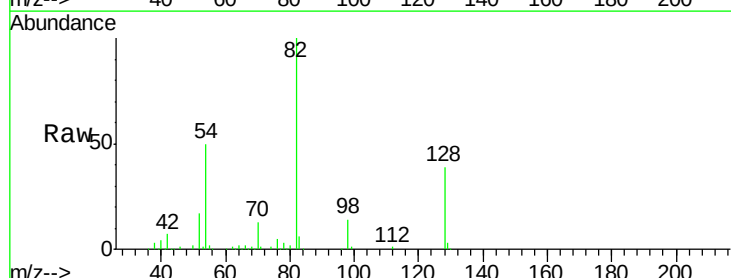
Manual Integrations  
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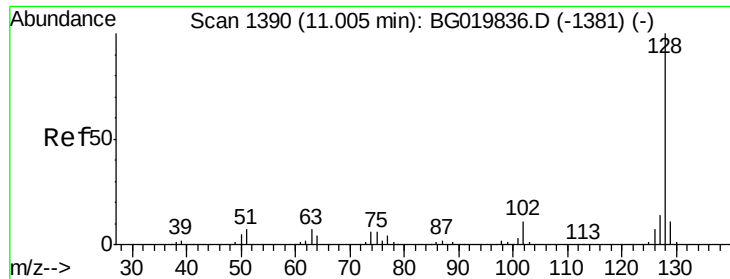
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#23  
Nitrobenzene-d5  
Concen: 103.79 ng  
RT: 9.28 min Scan# 1096  
Delta R.T. -0.02 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 172536 |       |       |
| 128     | 38.9 |       | 36.7   | 55.1  |       |
| 54      | 49.5 |       | 33.8   | 50.8  |       |





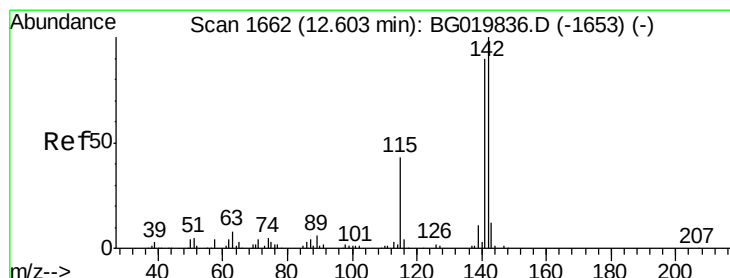
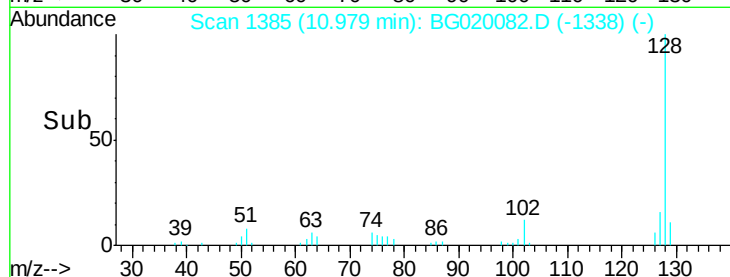
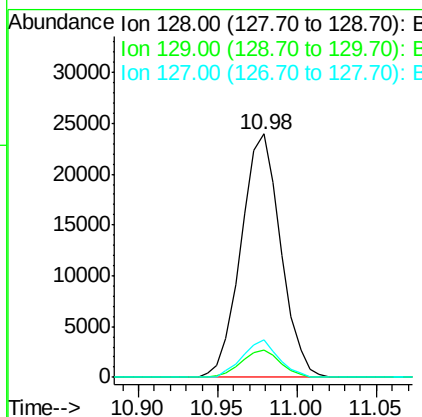
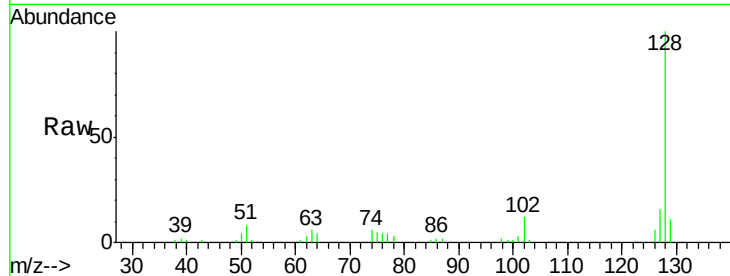
#31  
Naphthalene  
Concen: 9.14 ng  
RT: 10.98 min Scan# 1385  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.1  | 8.5   | 12.7  |
| 127     | 15.7  | 10.6  | 16.0  |

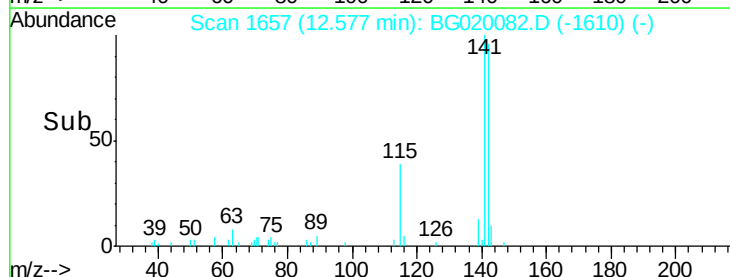
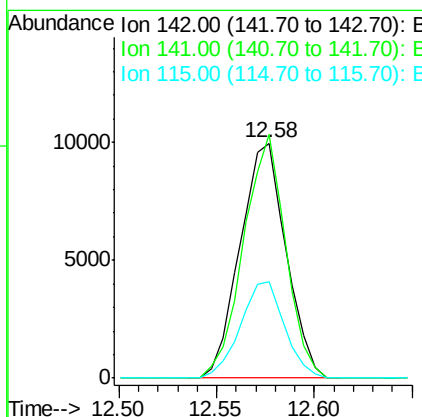
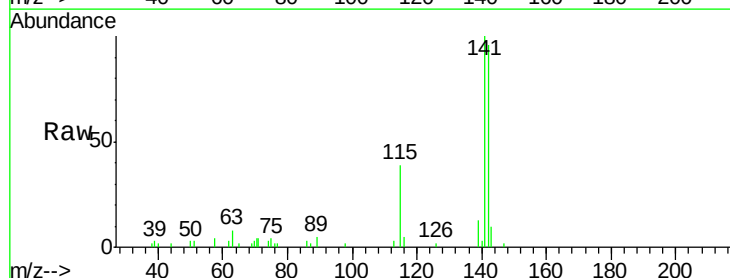
Manual Integrations  
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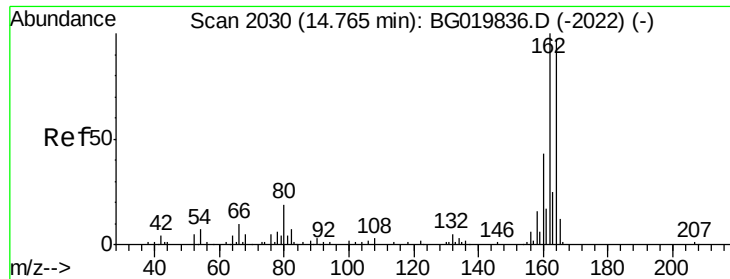
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12/11/2015 6:02:29 PM



#37  
2-Methylnaphthalene  
Concen: 4.87 ng  
RT: 12.58 min Scan# 1657  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 103.7 | 74.6  | 112.0 |
| 115     | 40.9  | 27.4  | 41.0  |





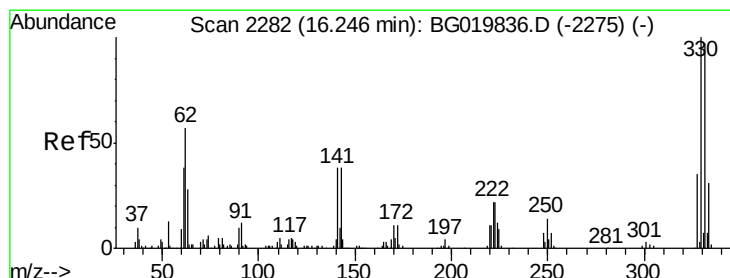
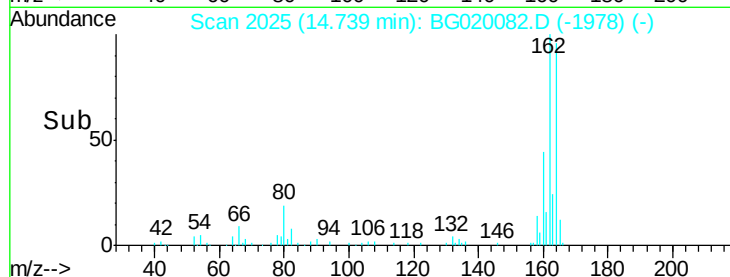
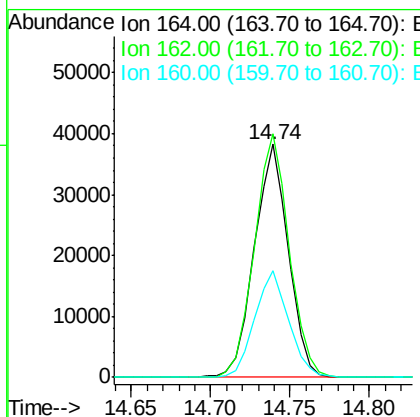
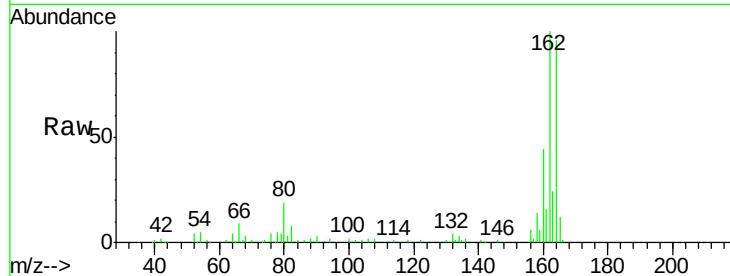
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.74 min Scan# 2025  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampled :  
S21-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.4 | 78.8  | 118.2 |
| 160     | 45.7  | 36.4  | 54.6  |

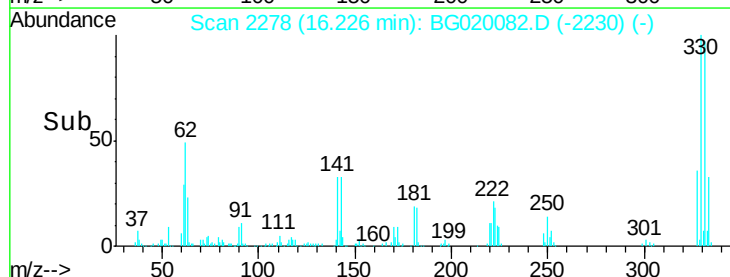
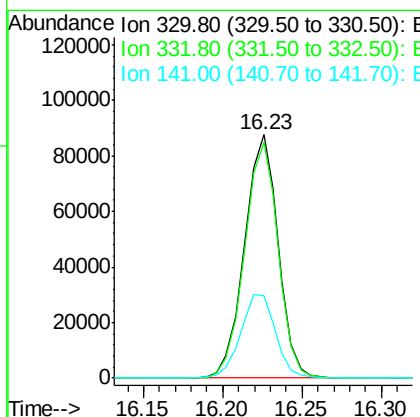
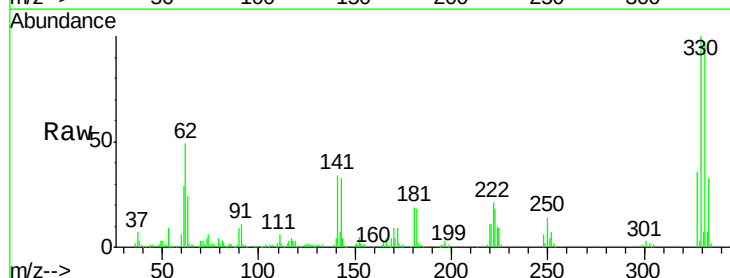
Manual Integrations  
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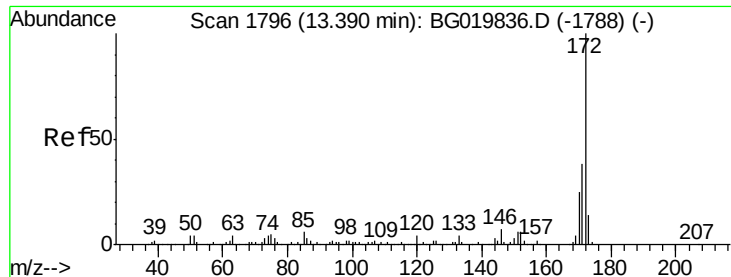
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12/11/2015 6:02:29 PM



#41  
2,4,6-Tribromophenol  
Concen: 147.63 ng  
RT: 16.23 min Scan# 2278  
Delta R.T. -0.02 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 78.1  | 117.1 |
| 141     | 36.1  | 28.2  | 42.2  |





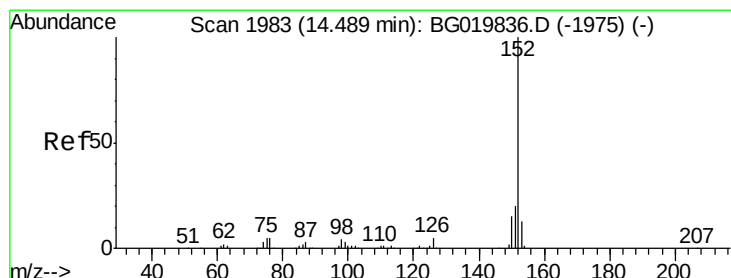
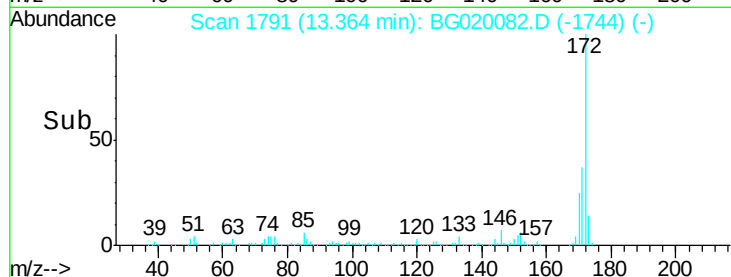
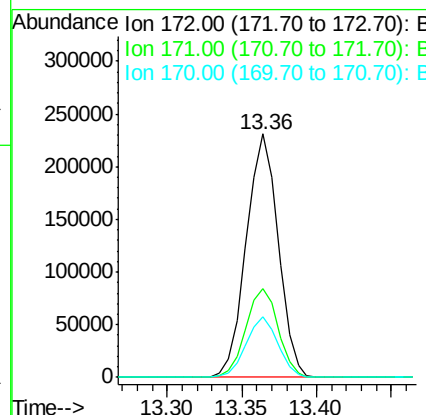
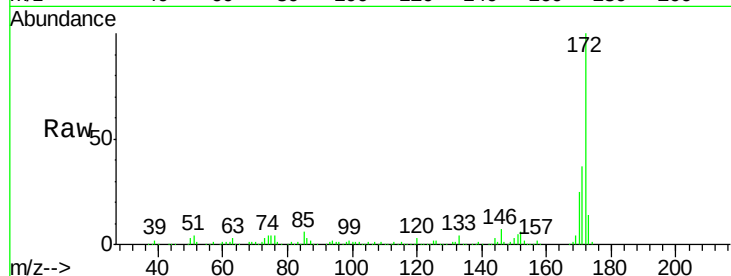
#44  
2-Fluorobiphenyl  
Concen: 82.05 ng  
RT: 13.36 min Scan# 1791  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 342584 |       |       |
| 171     | 36.6  | 29.0   | 43.6  |       |
| 170     | 24.8  | 19.9   | 29.9  |       |

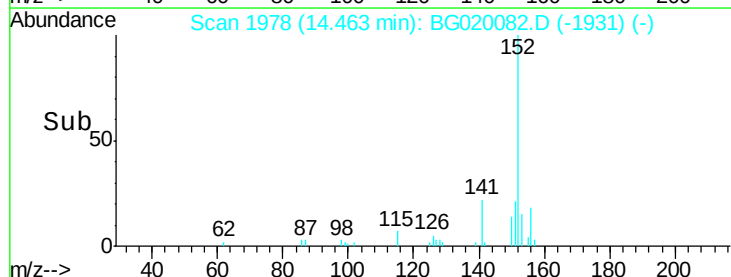
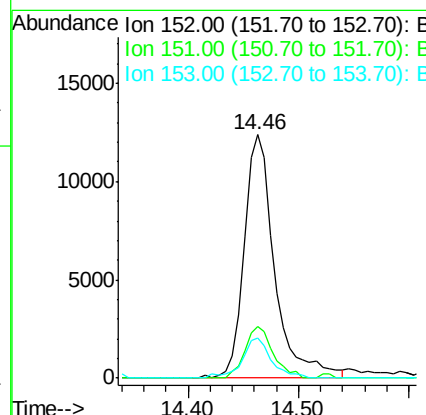
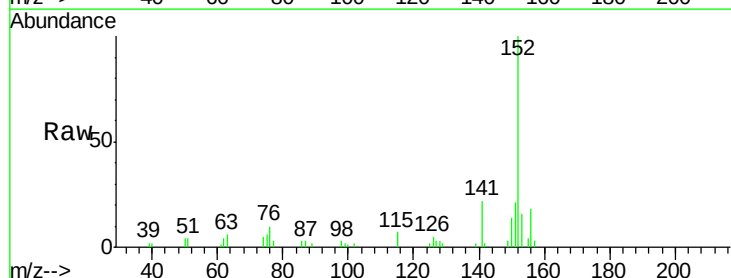
Manual Integrations  
APPROVED

MMdadoda  
12/11/2015 6:02:29 PM

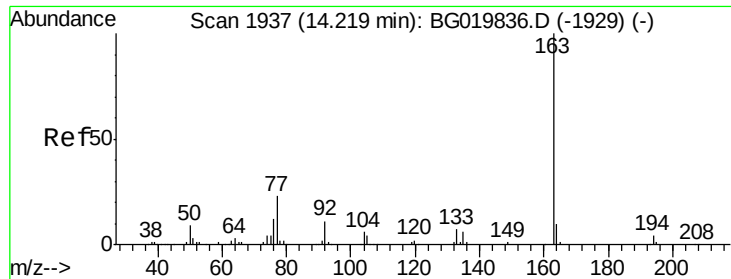


#48  
Acenaphthylene  
Concen: 3.91 ng  
RT: 14.46 min Scan# 1978  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 24001 |       |       |
| 151     | 21.4  | 17.0  | 25.4  |       |
| 153     | 16.3  | 10.4  | 15.6  |       |







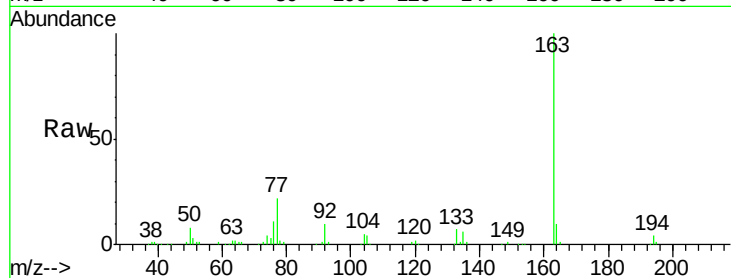
#49  
Dimethylphthalate  
Concen: 26.14 ng  
RT: 14.18 min Scan# 1930  
Delta R.T. -0.04 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 134045 |       |       |
| 194     | 4.2   |        | 3.1   | 4.7   |
| 164     | 9.8   |        | 8.8   | 13.2  |

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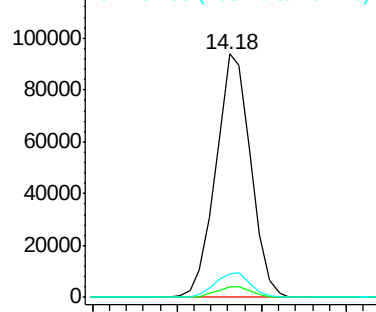


Abundance

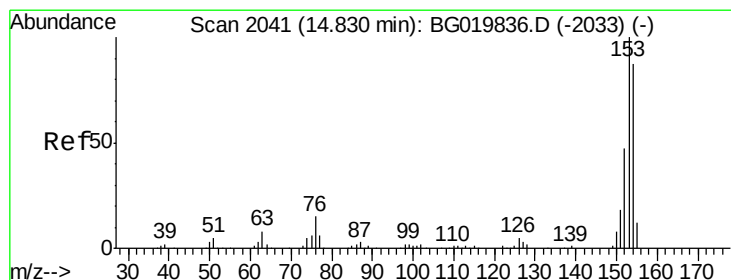
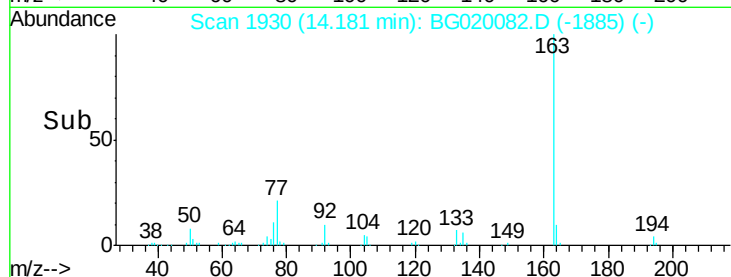
Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

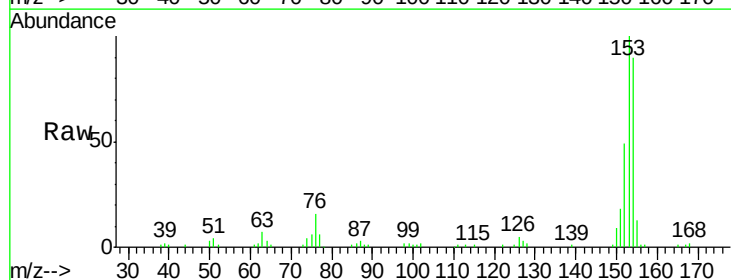


Time--> 14.10 14.15 14.20 14.25



#51  
Acenaphthene  
Concen: 14.52 ng  
RT: 14.80 min Scan# 2036  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 54110 |       |       |
| 153     | 110.6 |       | 92.9  | 139.3 |
| 152     | 53.9  |       | 45.8  | 68.8  |

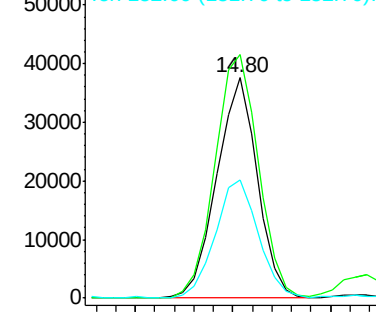


Abundance

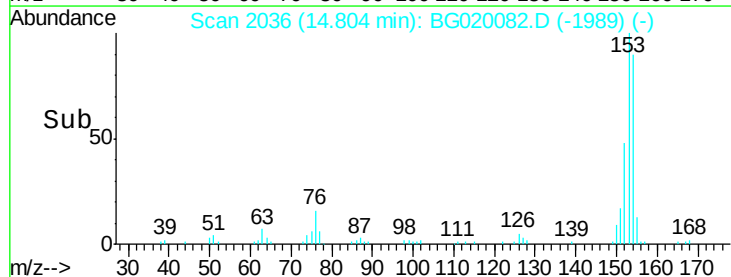
Ion 154.00 (153.70 to 154.70): E

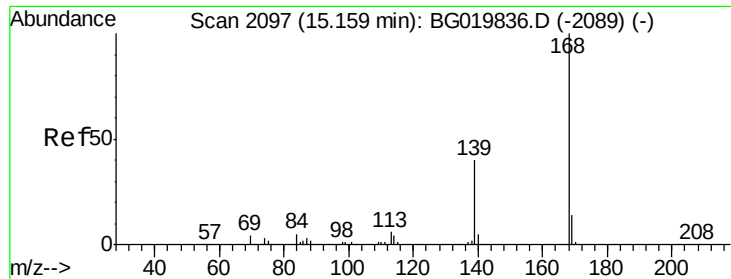
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time--> 14.75 14.80 14.85





#54

Dibenzofuran

Concen: 11.62 ng

RT: 15.13 min Scan# 2092

Delta R.T. -0.03 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

Instrument :

BNA\_G

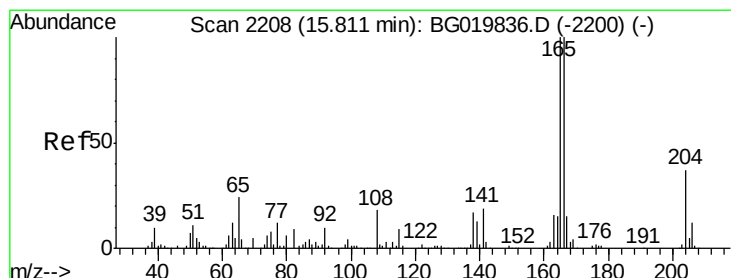
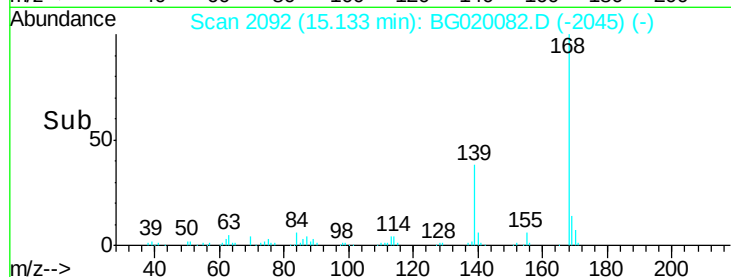
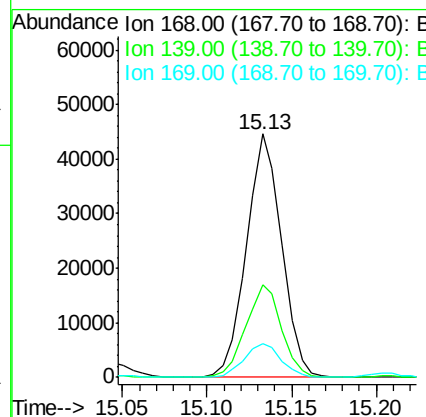
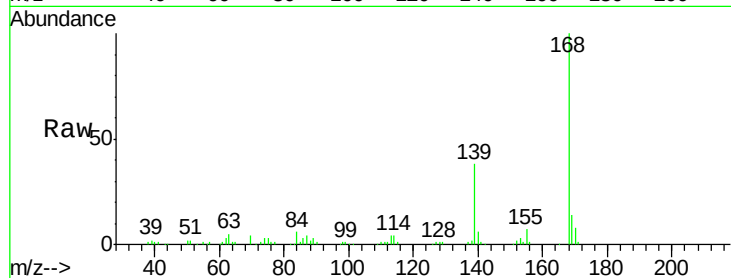
ClientSampleId :

S21-15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 168   | Resp: | 64424 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 38.0  | 27.4  | 41.0  |
| 169       | 13.9  | 11.0  | 16.4  |

Manual Integrations  
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#57

Fluorene

Concen: 15.64 ng

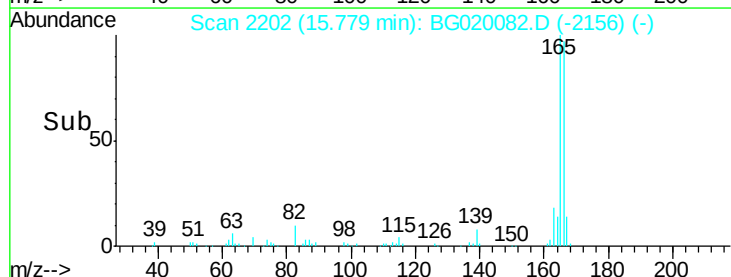
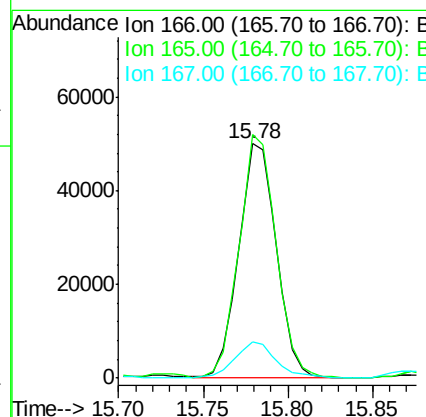
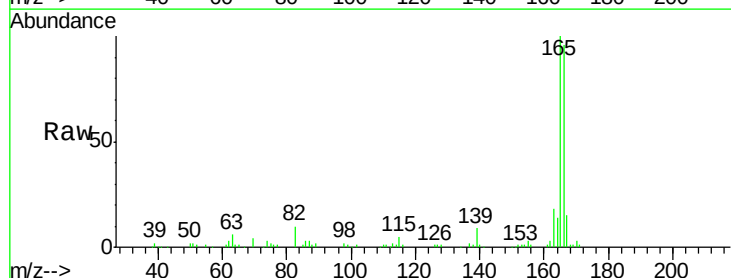
RT: 15.78 min Scan# 2202

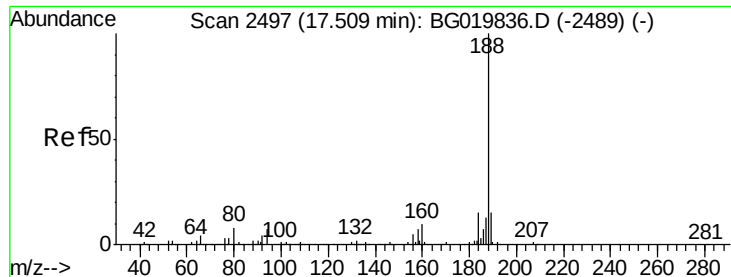
Delta R.T. -0.03 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 77633 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 103.9 | 80.0  | 120.0 |
| 167       | 15.3  | 11.1  | 16.7  |





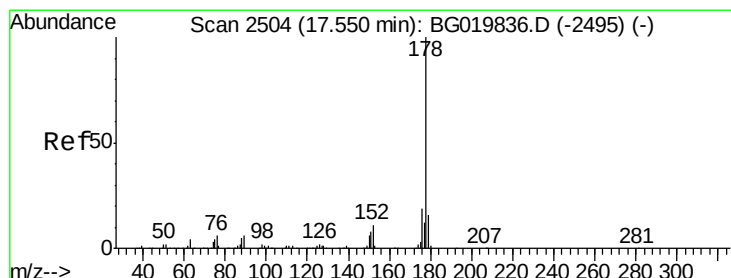
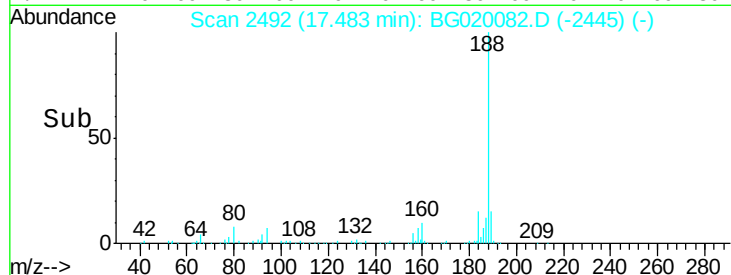
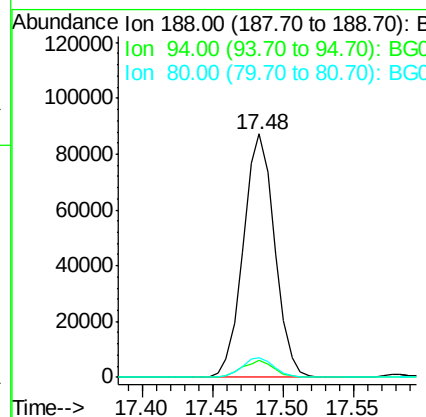
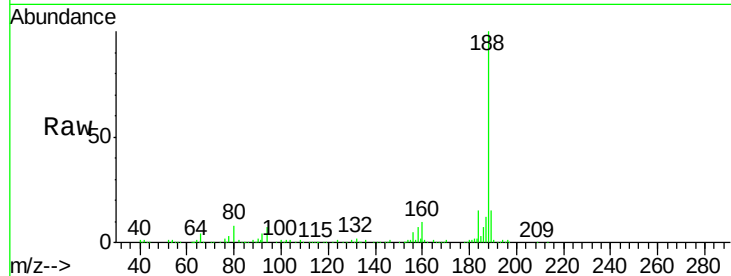
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.48 min Scan# 2492  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 135627 |       |       |
| 94      | 7.1   |        | 7.7   | 11.5# |
| 80      | 8.2   |        | 7.8   | 11.8  |

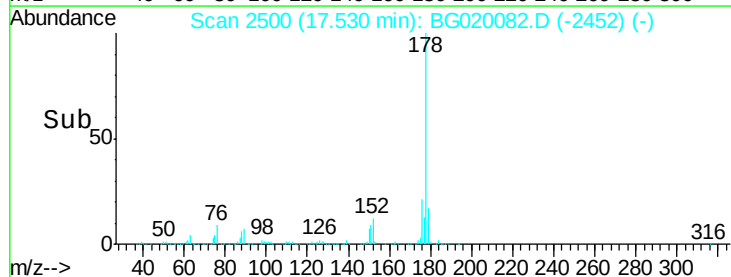
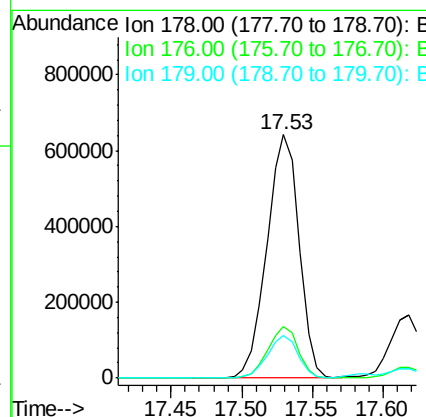
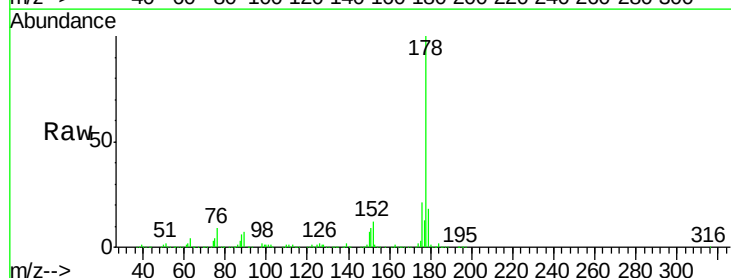
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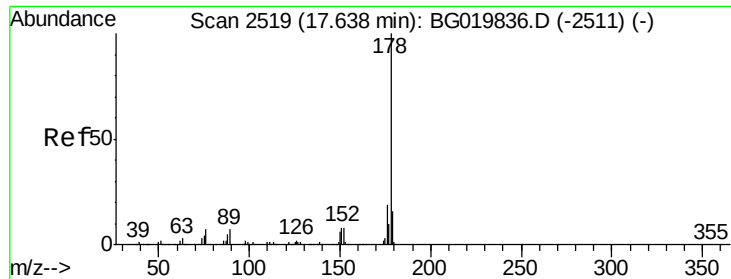
MMdadoda  
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#70  
Phenanthrene  
Concen: 134.01 ng  
RT: 17.53 min Scan# 2500  
Delta R.T. -0.02 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1028360 |       |       |
| 176     | 21.2  |         | 16.7  | 25.1  |
| 179     | 17.5  |         | 13.9  | 20.9  |





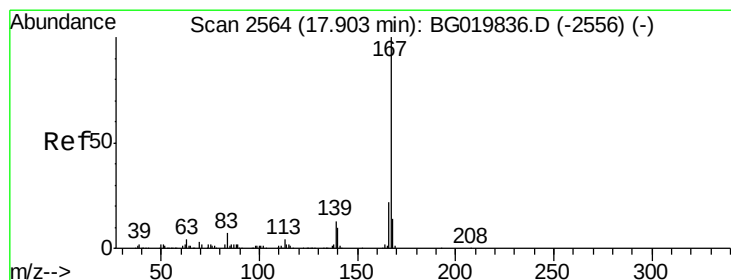
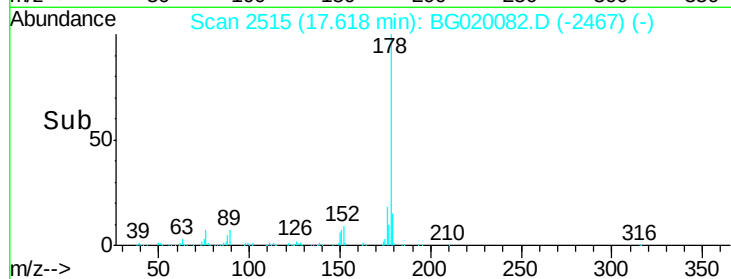
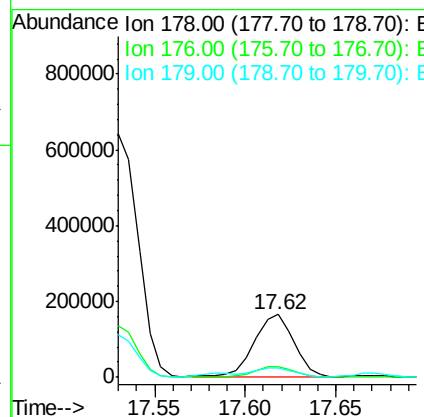
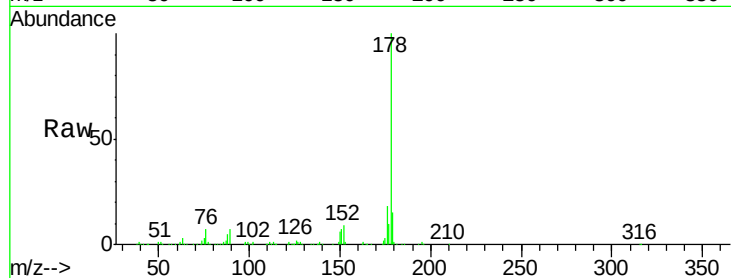
#71  
 Anthracene  
 Concen: 31.79 ng  
 RT: 17.62 min Scan# 2515  
 Delta R.T. -0.02 min  
 Lab File: BG020082.D  
 Acq: 10 Dec 2015 19:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S21-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.7  | 16.8  | 25.2  |
| 179     | 15.4  | 13.9  | 20.9  |

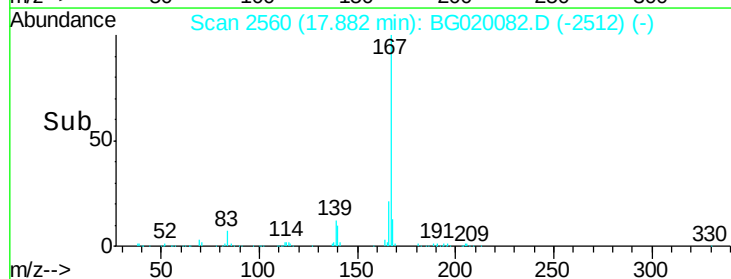
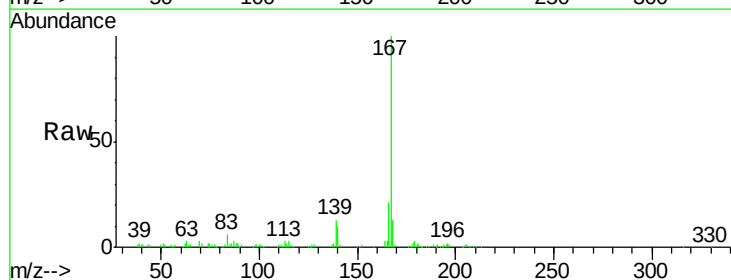
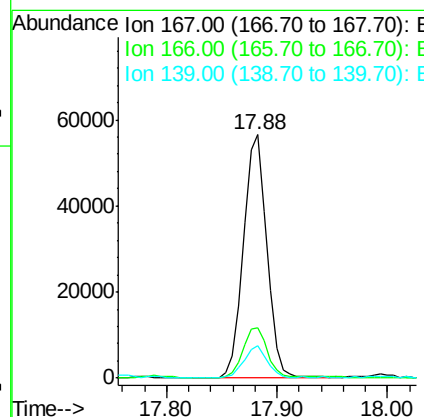
Manual Integrations  
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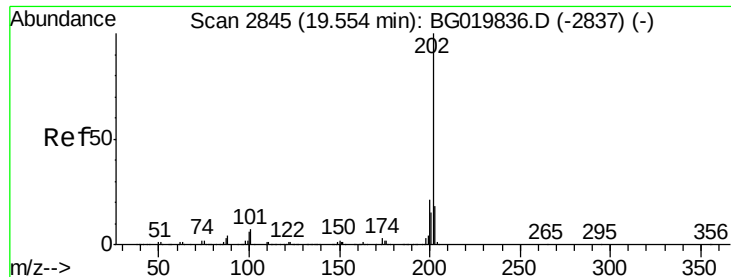
MMdadoda  
 12/11/2015 6:02:29 PM



#72  
 Carbazole  
 Concen: 12.31 ng  
 RT: 17.88 min Scan# 2560  
 Delta R.T. -0.02 min  
 Lab File: BG020082.D  
 Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.9  | 19.0  | 28.6  |
| 139     | 13.4  | 10.2  | 15.4  |





#74

Fluoranthene

Concen: 107.46 ng

RT: 19.53 min Scan# 2841

Delta R.T. -0.02 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

Instrument :

BNA\_G

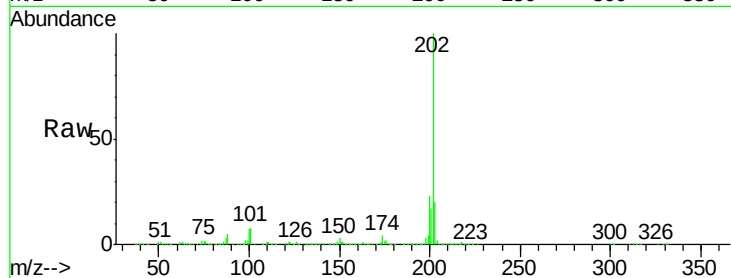
ClientSampleId :

S21-15

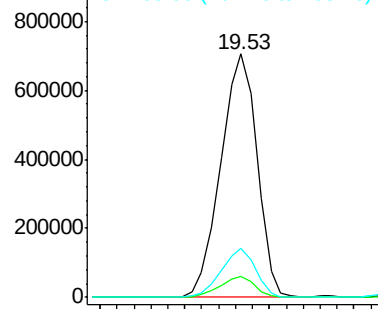
|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1054750 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.4   | 0.0   | 32.4    |
| 203       | 20.1  | 0.0   | 39.5    |

Manual Integrations  
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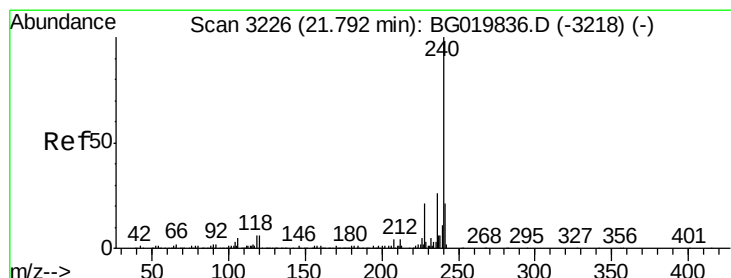
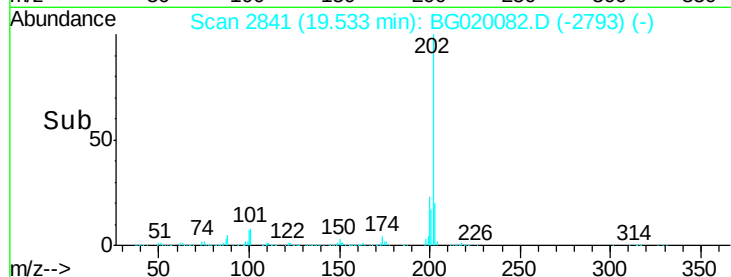
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

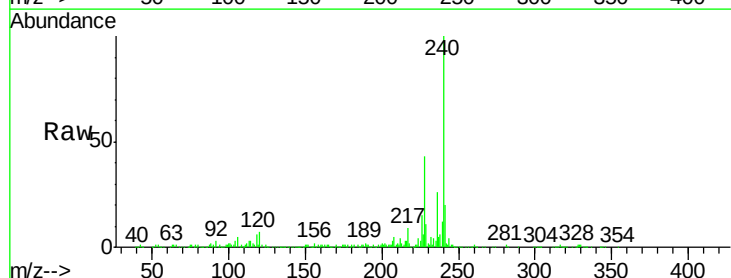
RT: 21.76 min Scan# 3220

Delta R.T. -0.03 min

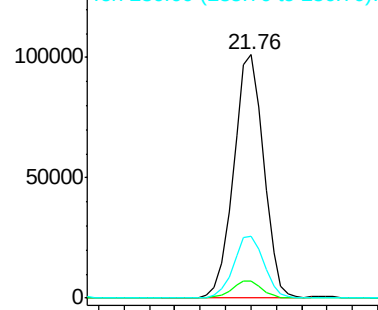
Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

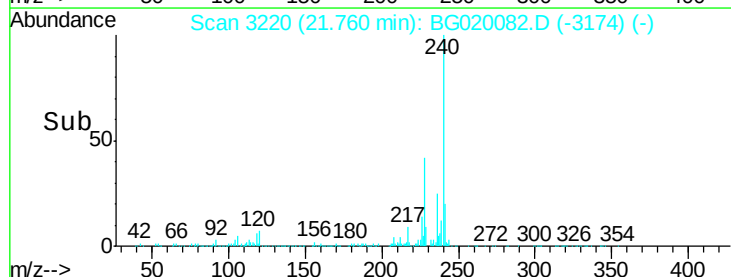
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 166050 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 7.0   | 7.4   | 11.0#  |
| 236       | 25.5  | 20.7  | 31.1   |

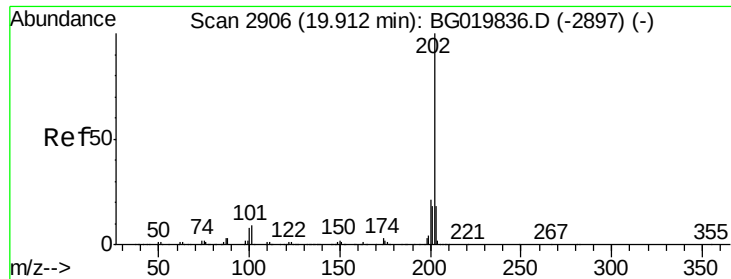


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



Time-->





#77

Pvrene

Concen: 95.51 ng

RT: 19.89 min Scan# 2902

Delta R.T. -0.02 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

Instrument :

BNA\_G

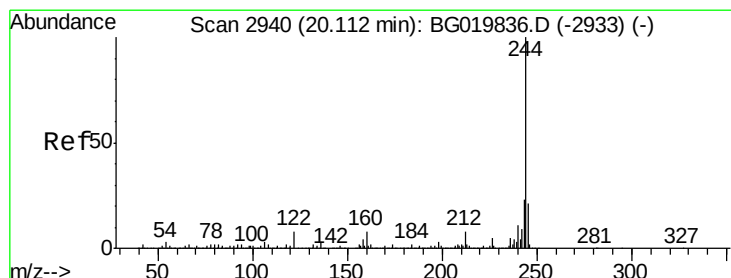
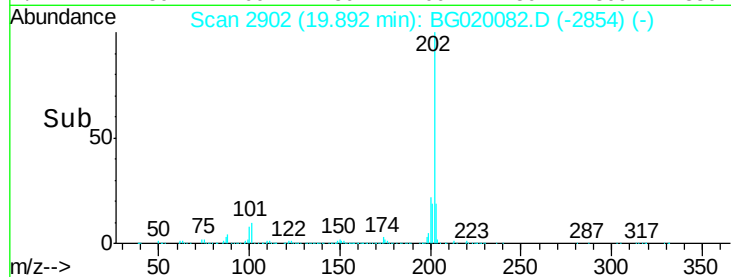
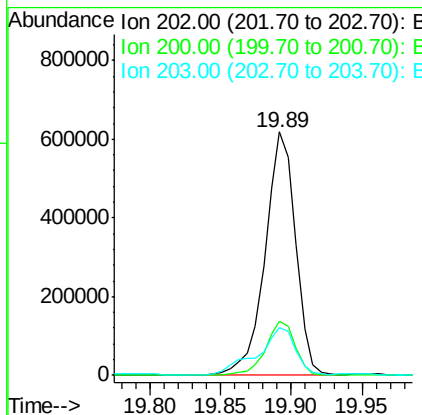
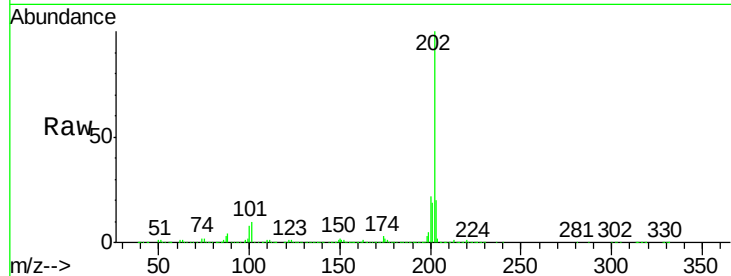
ClientSampleId :

S21-15

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 932997 |       |       |
| 200     | 22.2 | 19.4  |        | 29.0  |       |
| 203     | 19.8 | 15.5  |        | 23.3  |       |

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#78

Terphenyl-d14

Concen: 85.92 ng

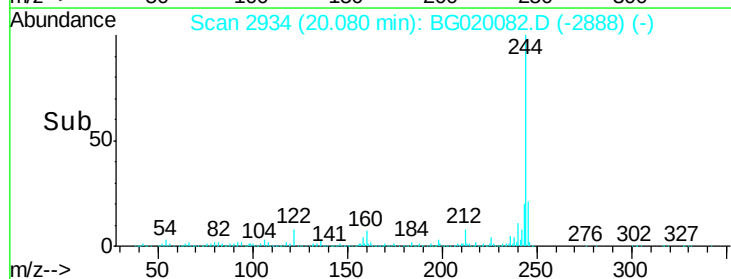
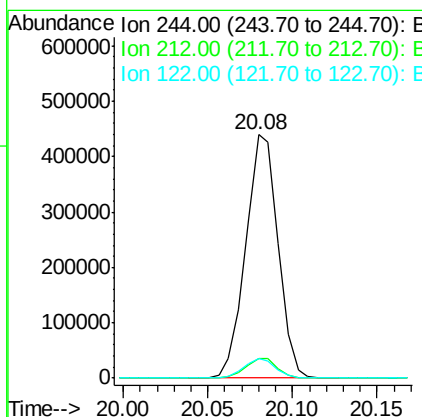
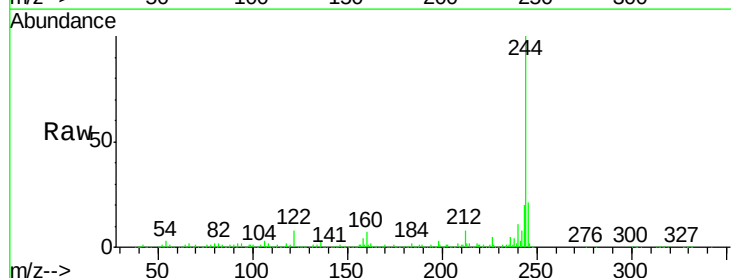
RT: 20.08 min Scan# 2934

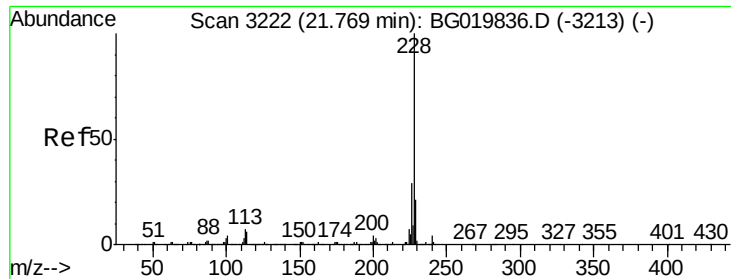
Delta R.T. -0.03 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 244     | 100 |       | 584913 |       |       |
| 212     | 7.8 | 6.9   |        | 10.3  |       |
| 122     | 8.2 | 10.2  |        | 15.2  |       |





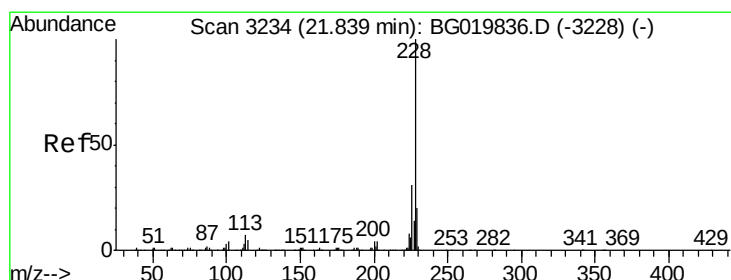
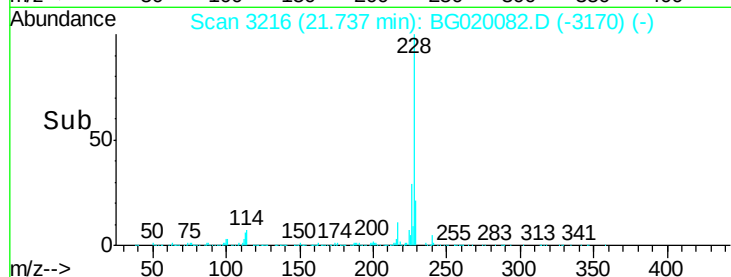
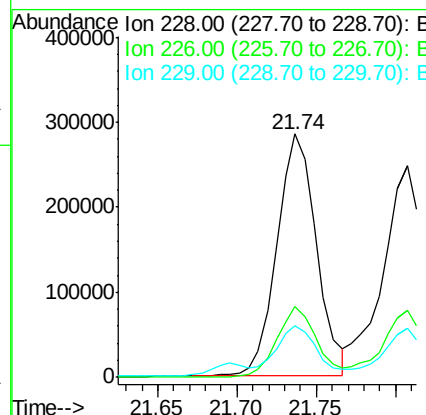
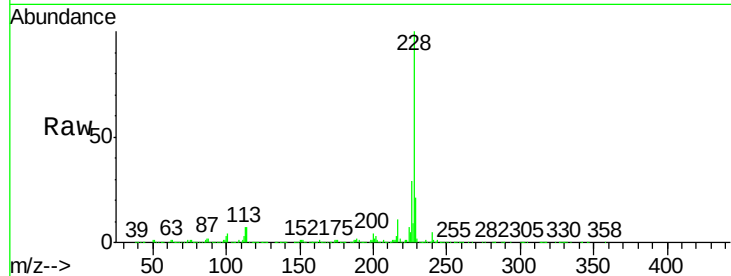
#80  
Benzo(a)anthracene  
Concen: 48.59 ng  
RT: 21.74 min Scan# 3216  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 493889 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.1  | 23.4  | 35.0   |
| 229       | 21.2  | 16.6  | 25.0   |

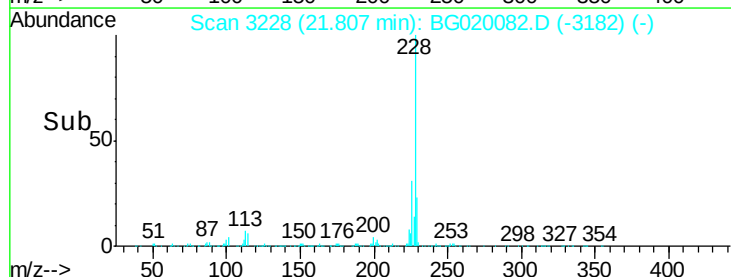
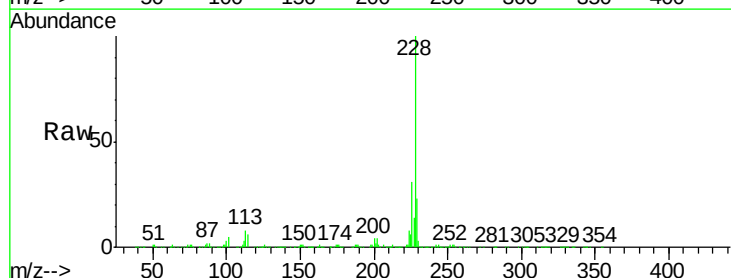
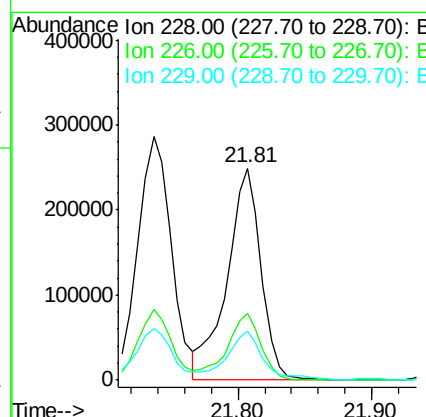
Manual Integrations  
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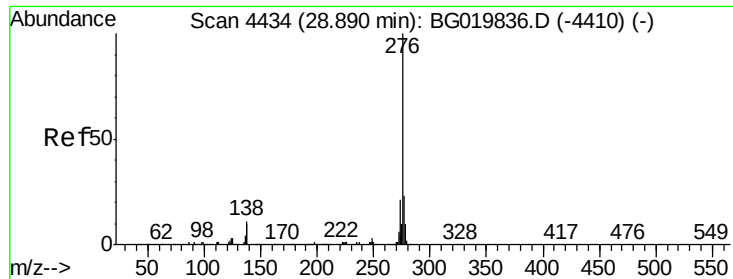
MMdadoda  
12/11/2015 6:02:29 PM



#82  
Chrysene  
Concen: 45.46 ng  
RT: 21.81 min Scan# 3228  
Delta R.T. -0.03 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 438759 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.4  | 26.7  | 40.1   |
| 229       | 22.9  | 17.0  | 25.6   |





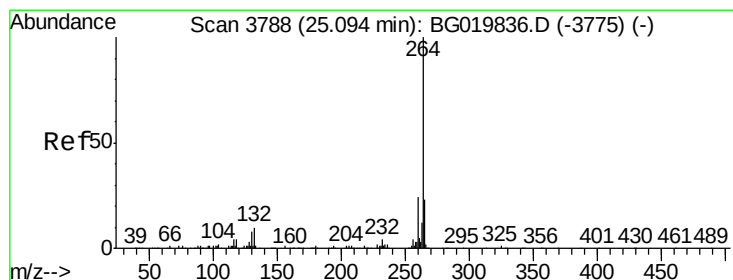
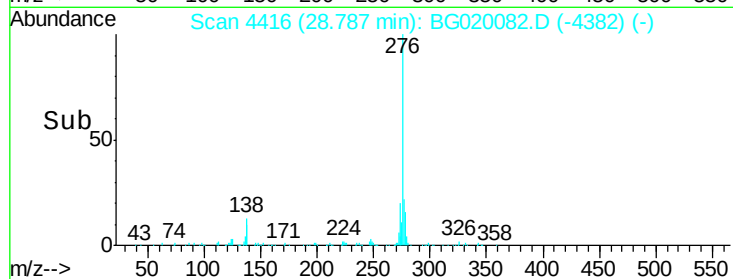
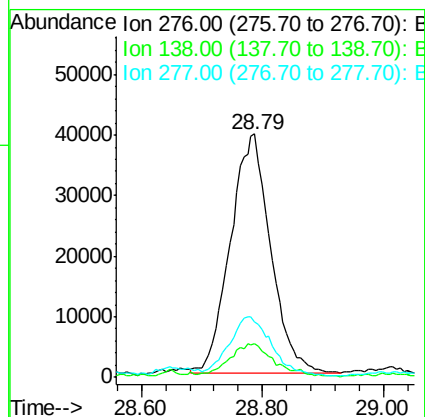
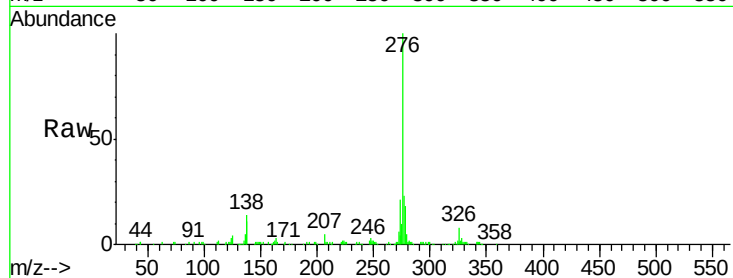
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 17.16 ng  
RT: 28.79 min Scan# 4416  
Delta R.T. -0.10 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampled :  
S21-15

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 13.9  | 0.0        | 0.0#  |
| 277     | 26.1  | 0.0        | 0.0#  |

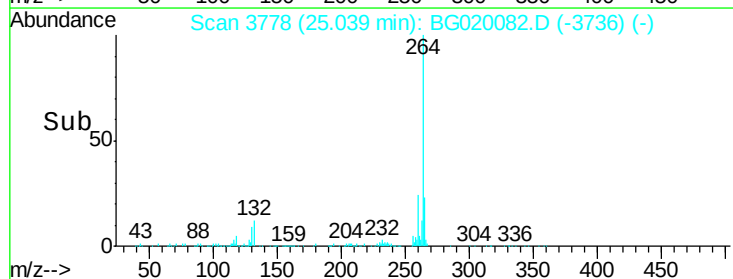
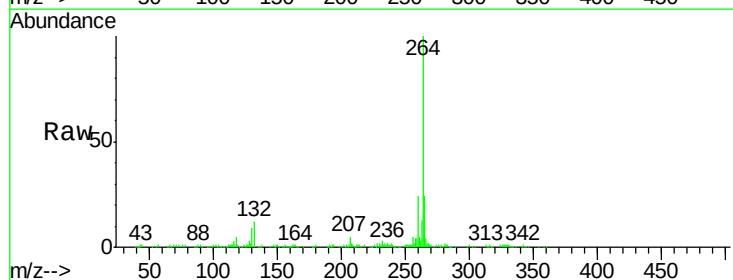
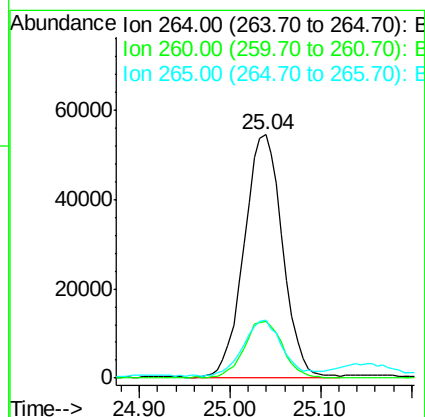
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12/11/2015 6:02:29 PM

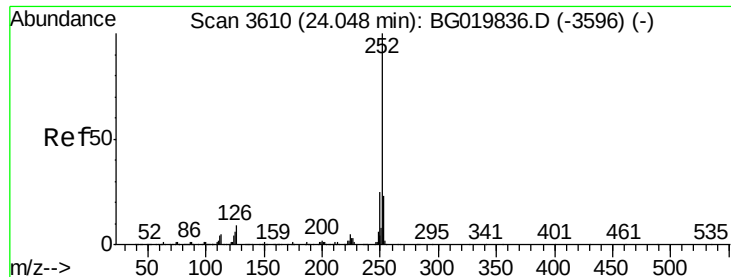


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.04 min Scan# 3778  
Delta R.T. -0.06 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.5  | 18.5       | 27.7  |
| 265     | 23.6  | 17.2       | 25.8  |







#87

Benzo(b)fluoranthene

Concen: 42.24 ng m

RT: 24.00 min Scan# 3601

Delta R.T. -0.05 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

Instrument :

BNA\_G

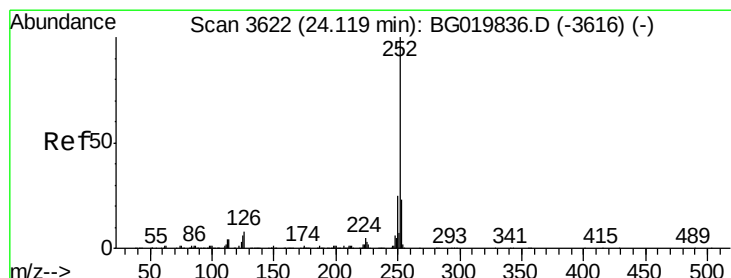
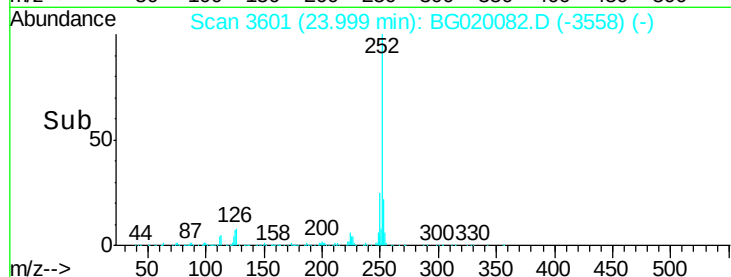
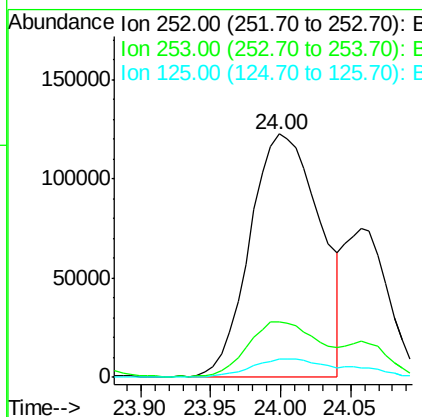
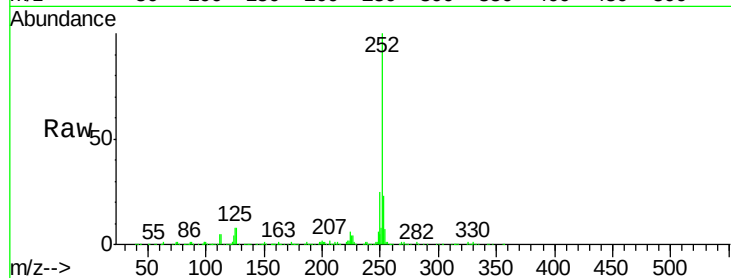
ClientSampleId :

S21-15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 425814 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 19.1  | 28.7   |
| 125       | 7.7   | 8.9   | 13.3#  |

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12/11/2015 6:02:29 PM



#88

Benzo(k)fluoranthene

Concen: 16.54 ng m

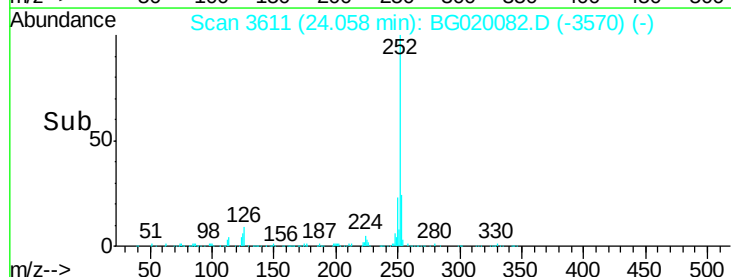
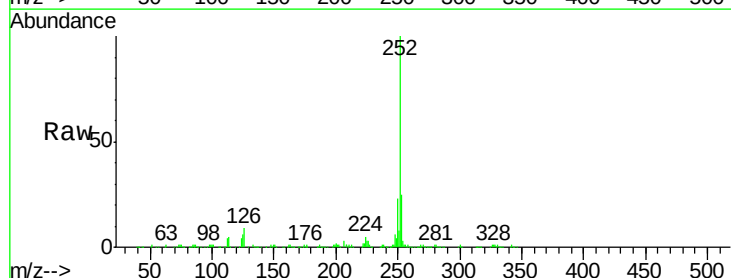
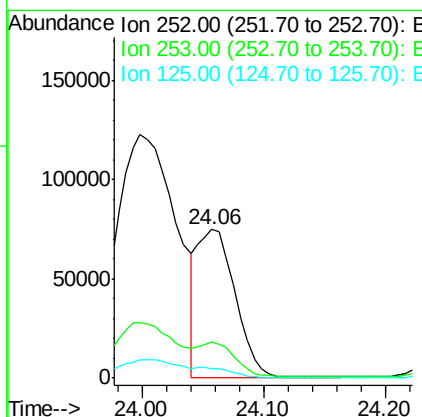
RT: 24.06 min Scan# 3611

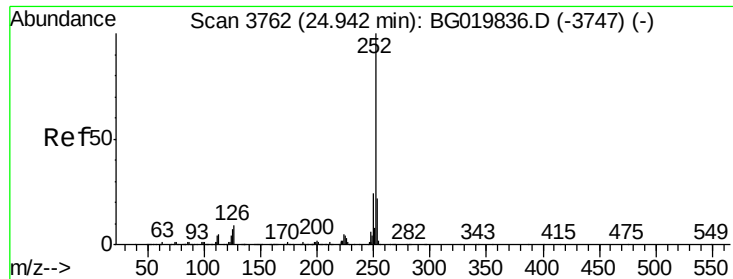
Delta R.T. -0.06 min

Lab File: BG020082.D

Acq: 10 Dec 2015 19:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 165165 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.6  | 19.0  | 28.4   |
| 125       | 6.1   | 8.9   | 13.3#  |





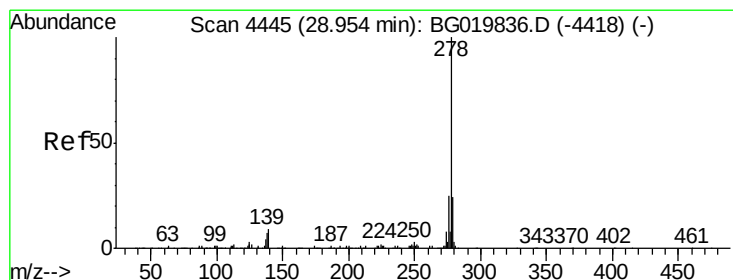
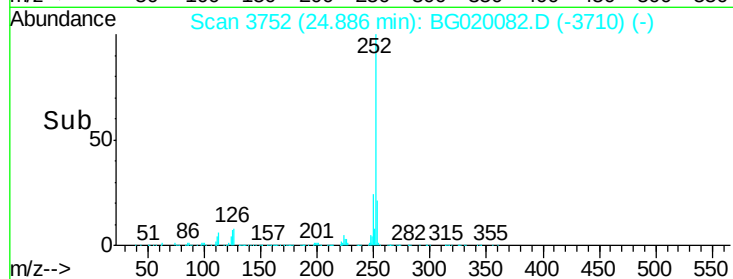
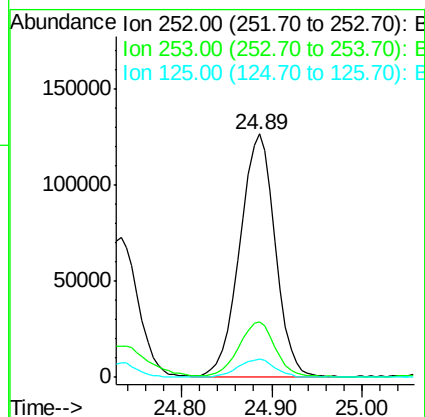
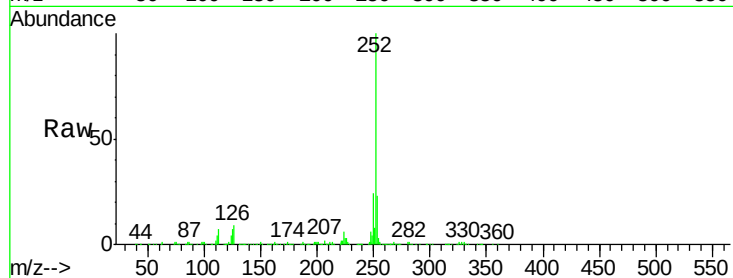
#89  
Benzo(a)pyrene  
Concen: 36.15 ng/ml  
RT: 24.89 min Scan# 3752  
Delta R.T. -0.06 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

Instrument :  
BNA\_G  
ClientSampleId :  
S21-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.7  | 28.1  |
| 125     | 7.4   | 9.1   | 13.7  |

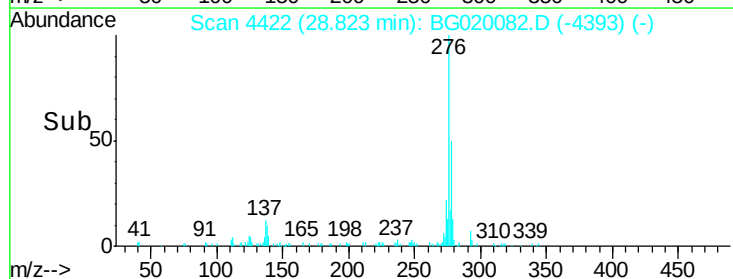
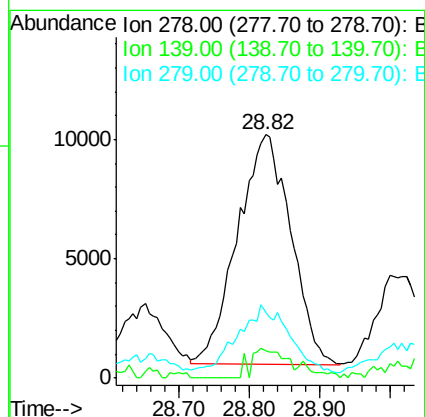
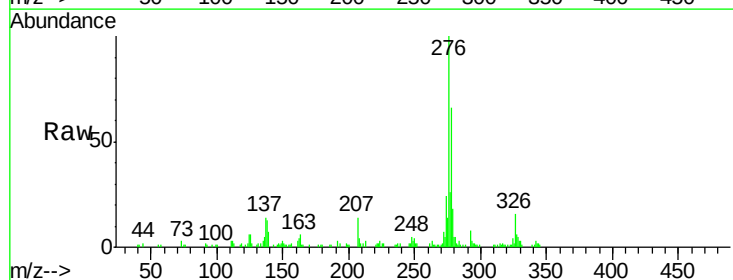
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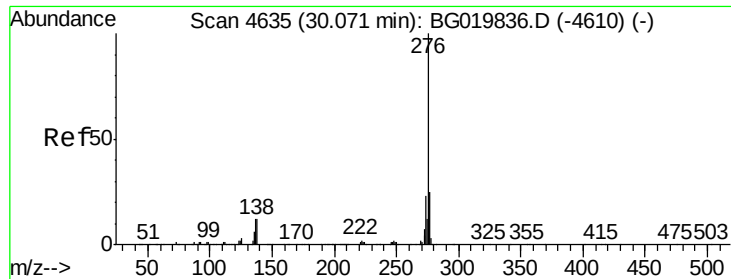
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#90  
Dibenzo(a,h)anthracene  
Concen: 5.35 ng/ml  
RT: 28.82 min Scan# 4422  
Delta R.T. -0.13 min  
Lab File: BG020082.D  
Acq: 10 Dec 2015 19:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 11.3  | 13.8  | 20.6  |
| 279     | 26.8  | 19.4  | 29.0  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 17.24 ng  
 RT: 29.95 min Scan# 4614  
 Delta R.T. -0.12 min  
 Lab File: BG020082.D  
 Acq: 10 Dec 2015 19:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S21-15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 160061 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.7  | 18.4  | 27.6   |
| 138       | 13.7  | 17.4  | 26.0#  |

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