

Data Path : Z:\HPCHEM1\BNA M\DATA\BM113015\  
 Data File : BM003322.D  
 Acq On : 30 Nov 2015 16:32  
 Operator : UM/IZ  
 Sample : G4221-26  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

Manual Integrations  
 APPROVED

Mmdadoda  
 12/1/2015 6:33:55 PM

Quant Time: Dec 01 03:05:52 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM112715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 27 16:36:40 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.72  | 152  | 71681    | 5.00  | ng    | -0.02    |
| 7) Naphthalene-d8              | 10.51 | 136  | 304035   | 5.00  | ng    | -0.02    |
| 13) Acenaphthene-d10           | 14.38 | 164  | 154148   | 5.00  | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.12 | 188  | 322261   | 5.00  | ng    | 0.00     |
| 26) Chrysene-d12               | 21.32 | 240  | 237160   | 5.00  | ng    | 0.00     |
| 35) Perylene-d12               | 23.59 | 264  | 211782   | 5.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.30  | 112  | 111164   | 7.86  | ng    | -0.02    |
| 5) Phenol-d6                   | 6.88  | 99   | 156198   | 9.63  | ng    | -0.02    |
| 8) Nitrobenzene-d5             | 8.88  | 82   | 65090    | 4.81  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.87 | 330  | 40722    | 11.28 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.99 | 172  | 203665   | 4.09  | ng    | -0.01    |
| 29) Terphenyl-d14              | 19.76 | 244  | 153837   | 4.65  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 10) Naphthalene                | 10.56 | 128  | 657153   | 10.00 | ng    | 100      |
| 12) 2-Methylnaphthalene        | 12.18 | 142  | 284665   | 6.91  | ng    | 99       |
| 16) Acenaphthylene             | 14.09 | 152  | 137803   | 2.44  | ng    | 99       |
| 17) Acenaphthene               | 14.42 | 154  | 273161   | 6.27  | ng    | # 100    |
| 18) Fluorene                   | 15.42 | 166  | 274050   | 6.23  | ng    | 98       |
| 22) Pentachlorophenol          | 16.76 | 266  | 232      | 0.16  | ng    | # 82     |
| 23) Phenanthrene               | 17.15 | 178  | 520070   | 7.01  | ng    | 99       |
| 24) Anthracene                 | 17.25 | 178  | 775701   | 12.90 | ng    | 100      |
| 25) Fluoranthene               | 19.18 | 202  | 453245   | 6.45  | ng    | 100      |
| 28) Pyrene                     | 19.56 | 202  | 325905   | 4.50  | ng    | 98       |
| 30) Benzo(a)anthracene         | 21.30 | 228  | 276594m  | 4.60  | ng    |          |
| 32) Chrysene                   | 21.36 | 228  | 323054m  | 4.81  | ng    |          |
| 33) Bis(2-ethylhexyl)phthalate | 21.24 | 149  | 27102    | 1.42  | ng    | # 93     |
| 34) Indeno(1,2,3-cd)pyrene     | 25.86 | 276  | 525821   | 9.55  | ng    | # 78     |
| 36) Benzo(b)fluoranthene       | 22.90 | 252  | 506334   | 8.31  | ng    | 96       |
| 37) Benzo(k)fluoranthene       | 22.95 | 252  | 257139   | 4.69  | ng    | 98       |
| 38) Benzo(a)pyrene             | 23.48 | 252  | 331785   | 6.83  | ng    | 98       |
| 39) Dibenzo(a,h)anthracene     | 25.88 | 278  | 488852   | 11.64 | ng    | 98       |
| 40) Benzo(a,h,i)perylene       | 26.56 | 276  | 197909   | 3.93  | ng    | 96       |

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

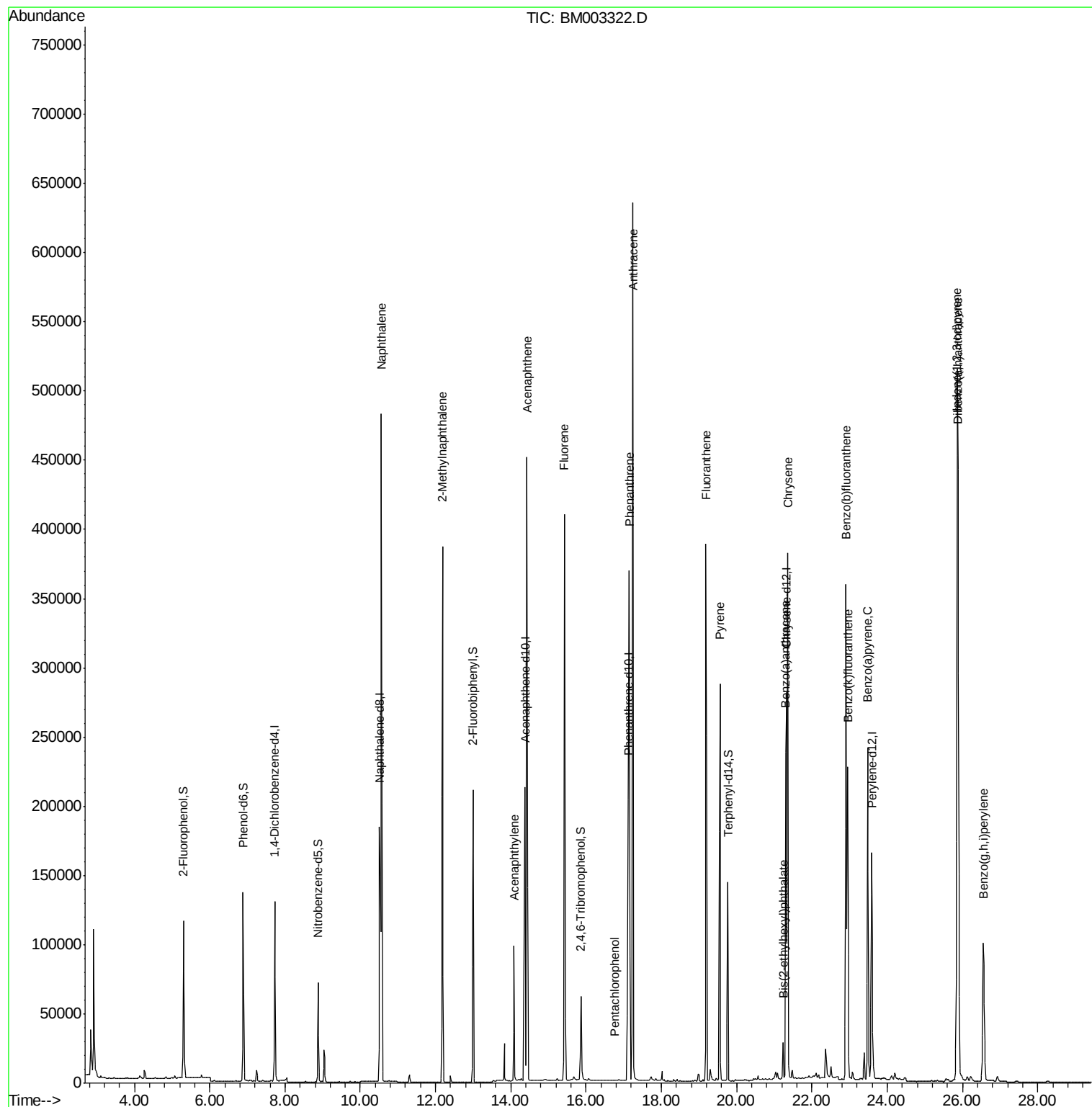
Data Path : Z:\HPCHEM1\BNA M\DATA\BM113015\  
Data File : BM003322.D  
Acq On : 30 Nov 2015 16:32  
Operator : UM/IZ  
Sample : G4221-26  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

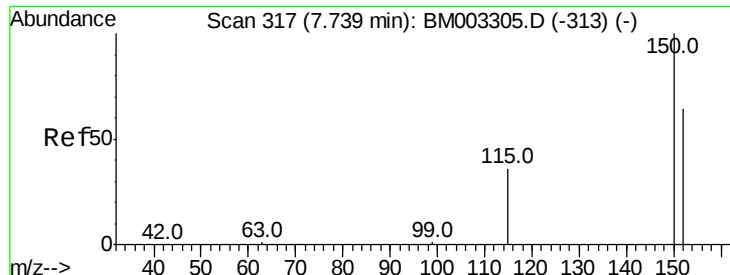
Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

Manual Integrations  
APPROVED

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12/1/2015 6:33:55 PM

Quant Time: Dec 01 03:05:52 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM112715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 27 16:36:40 2015  
Response via : Initial Calibration





#1

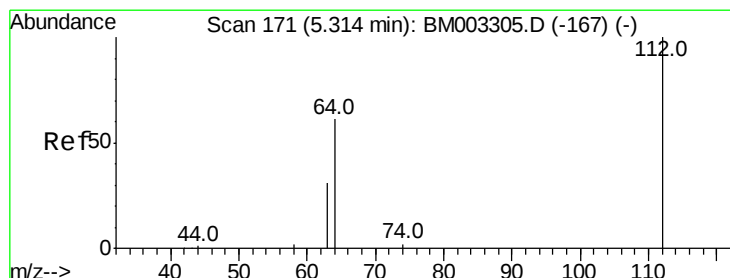
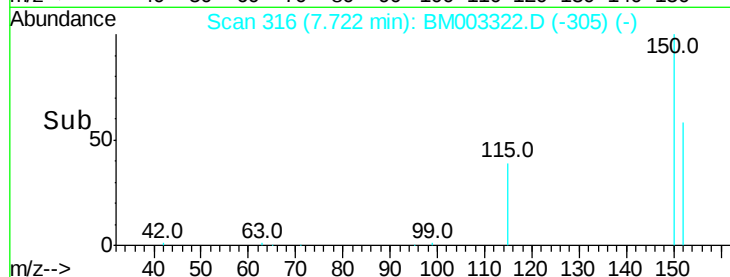
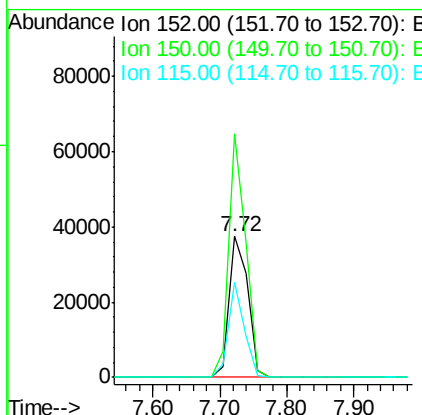
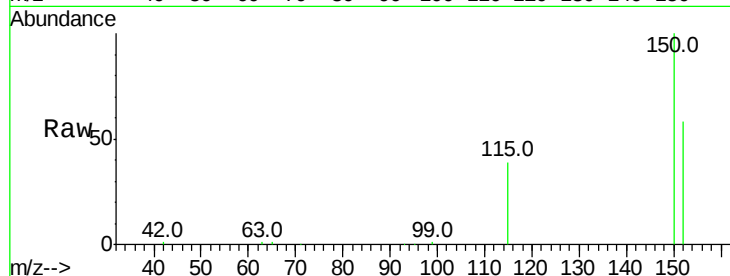
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.72 min Scan# 316  
Delta R.T. -0.02 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 172.6 | 143.6 | 215.4 |
| 115     | 67.5  | 58.5  | 87.7  |

Manual Integrations  
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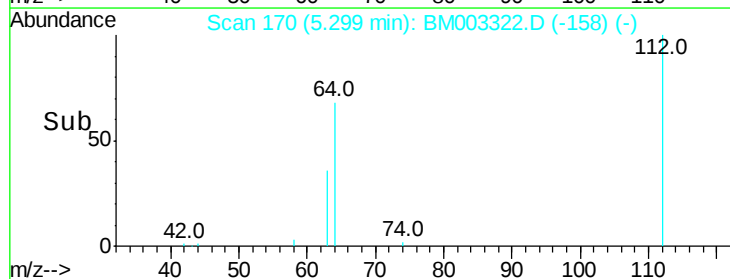
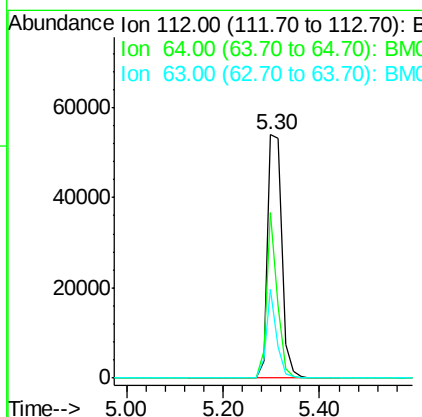
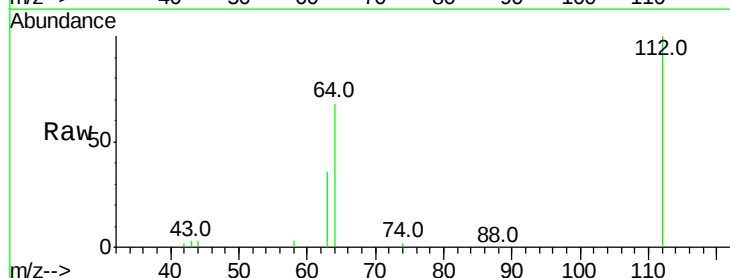
Mmdadoda  
12/1/2015 6:33:55 PM

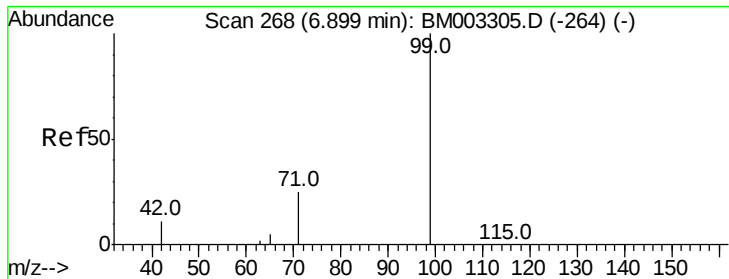


#4

2-Fluorophenol  
Concen: 7.86 ng  
RT: 5.30 min Scan# 170  
Delta R.T. -0.02 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.1  | 41.2  | 61.8  |
| 63      | 26.5  | 21.2  | 31.8  |





#5

Phenol-d6

Concen: 9.63 ng

RT: 6.88 min Scan# 267

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

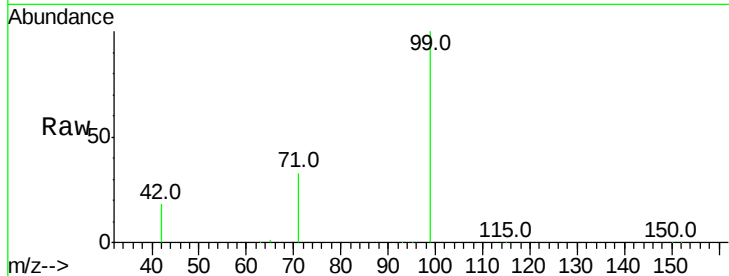
ClientSampleId :

PT-PAH-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 156198 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.4  | 14.6  | 22.0   |
| 71        | 29.5  | 23.3  | 34.9   |

Manual Integrations  
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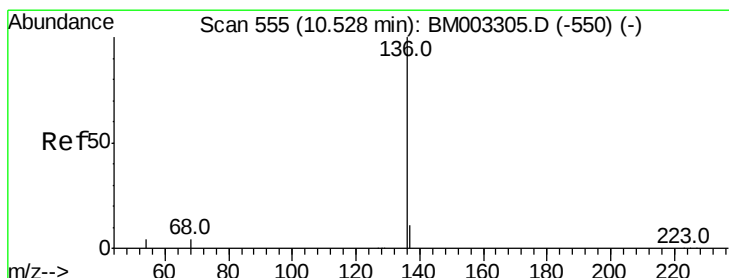
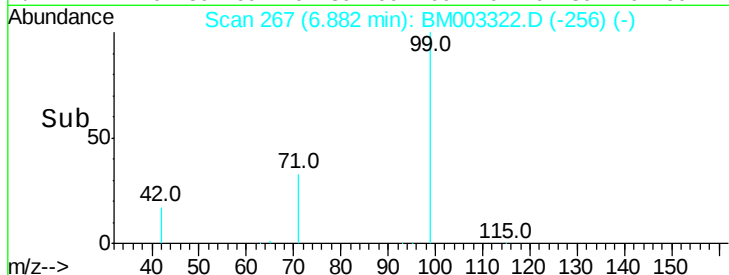
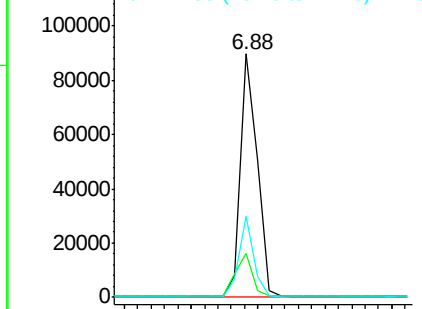


Abundance

Ion 99.00 (98.70 to 99.70): BM003322.D (-256) (-)

Ion 42.00 (41.70 to 42.70): BM003322.D (-256) (-)

Ion 71.00 (70.70 to 71.70): BM003322.D (-256) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.51 min Scan# 553

Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 304035 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.0  | 8.0   | 12.0   |
| 54        | 9.2   | 7.4   | 11.0   |
| 68        | 7.2   | 5.8   | 8.6    |

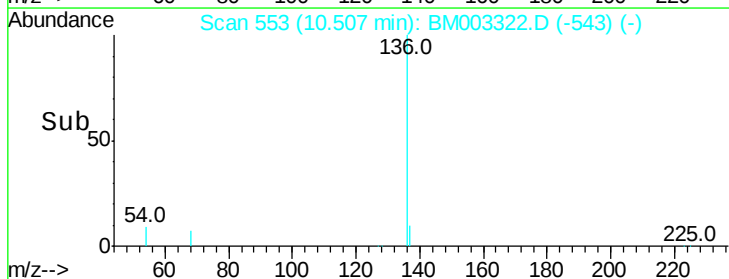
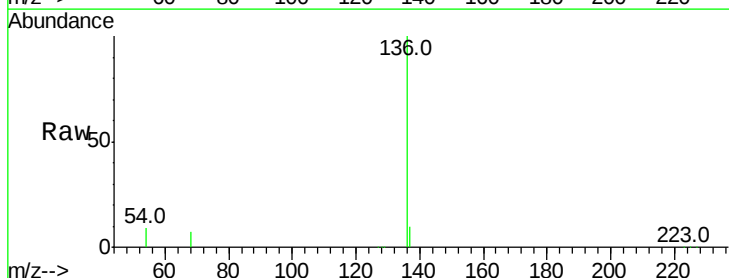
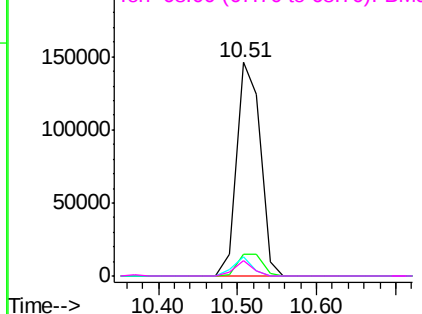
Abundance

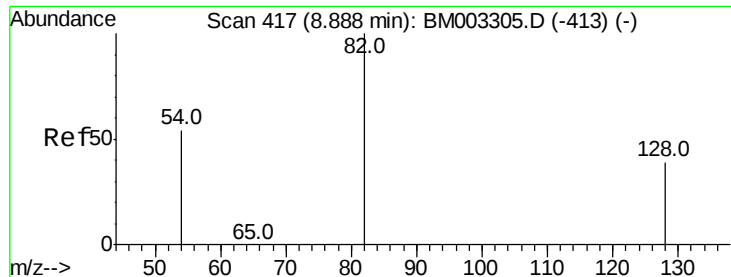
Ion 136.00 (135.70 to 136.70): BM003322.D (-543) (-)

Ion 137.00 (136.70 to 137.70): BM003322.D (-543) (-)

Ion 54.00 (53.70 to 54.70): BM003322.D (-543) (-)

Ion 68.00 (67.70 to 68.70): BM003322.D (-543) (-)





#8

Nitrobenzene-d5

Concen: 4.81 ng

RT: 8.88 min Scan# 416

Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

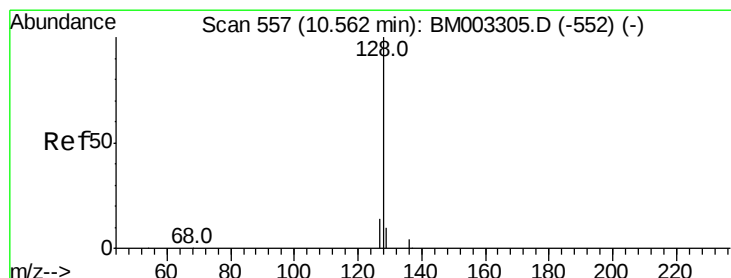
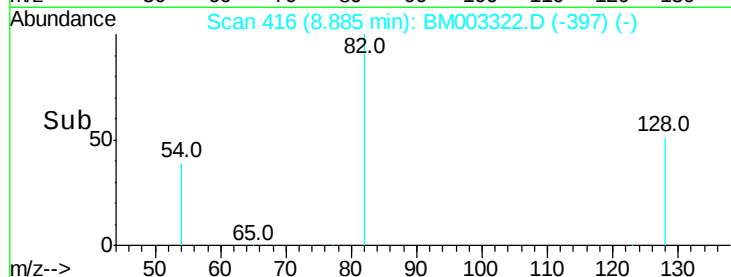
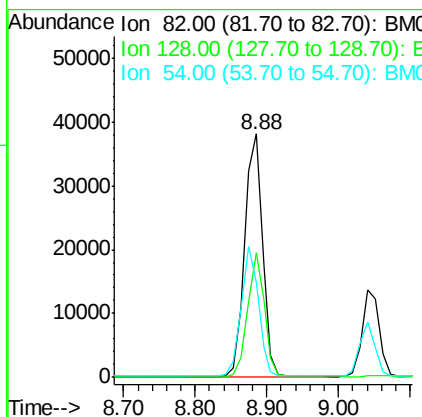
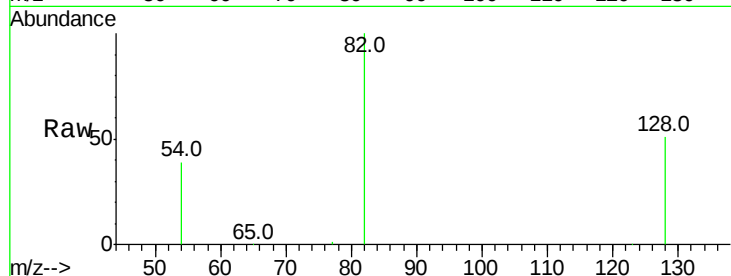
ClientSampled :

PT-PAH-SOIL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 82    | Resp: | 65090 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 51.0  | 35.2  | 52.8  |
| 54        | 39.0  | 36.4  | 54.6  |

Manual Integrations  
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#10

Naphthalene

Concen: 10.00 ng

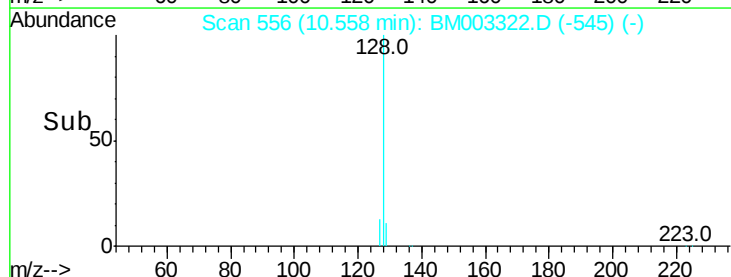
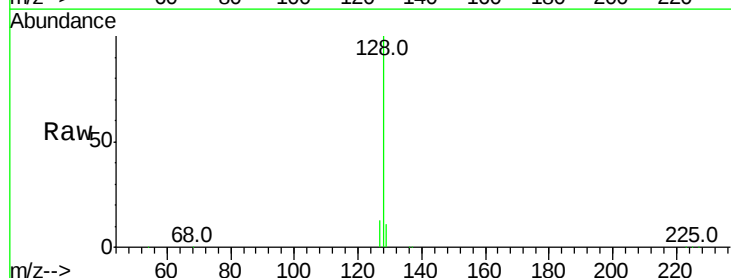
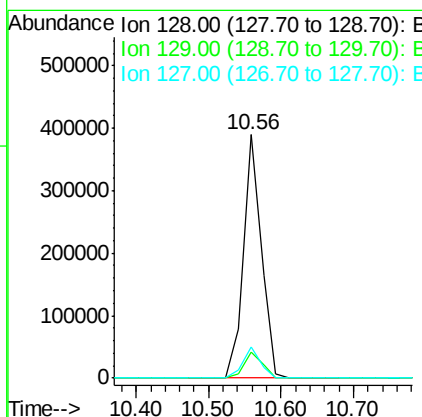
RT: 10.56 min Scan# 556

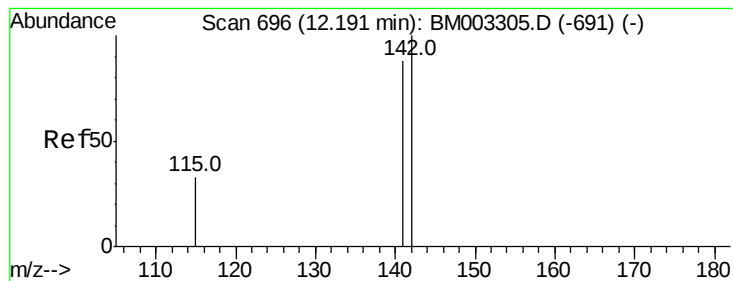
Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 657153 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.6  | 8.5   | 12.7   |
| 127       | 13.0  | 10.6  | 16.0   |





#12

2-Methylnaphthalene

Concen: 6.91 ng

RT: 12.18 min Scan# 695

Delta R.T. -0.01 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

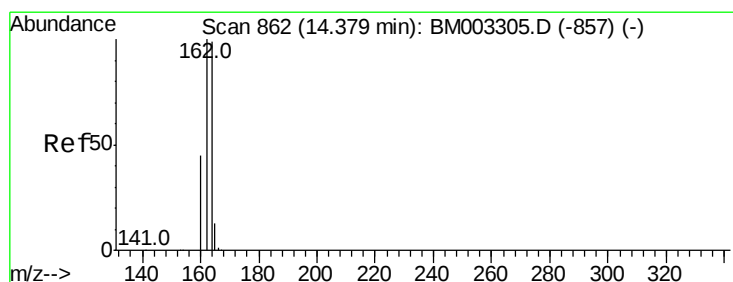
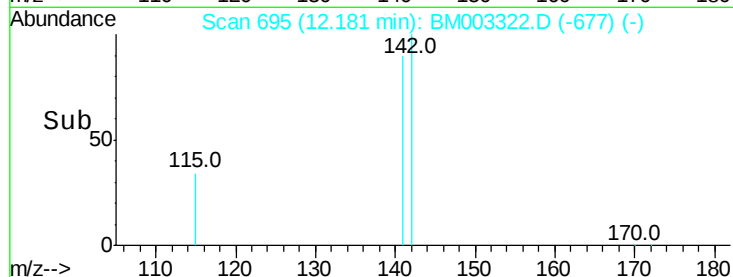
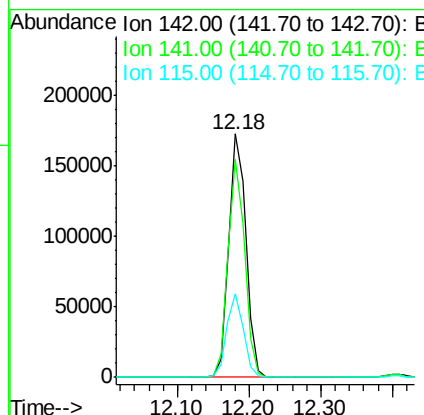
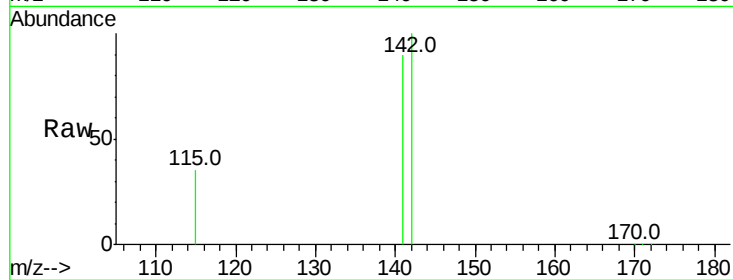
ClientSampleId :

PT-PAH-SOIL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 142   | Resp: | 284665 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 89.5  | 72.2  | 108.2  |
| 115       | 34.5  | 28.0  | 42.0   |

Manual Integrations  
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#13

Acenaphthene-d10

Concen: 5.00 ng

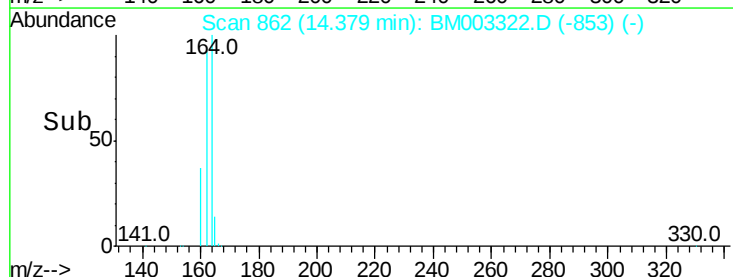
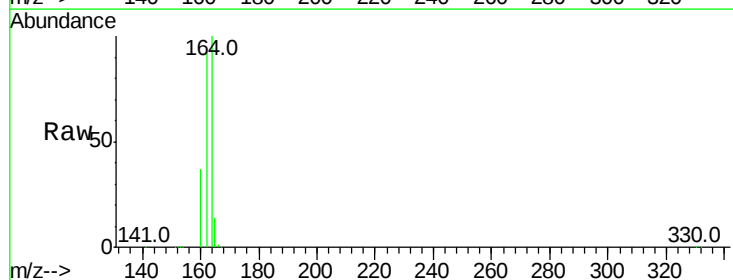
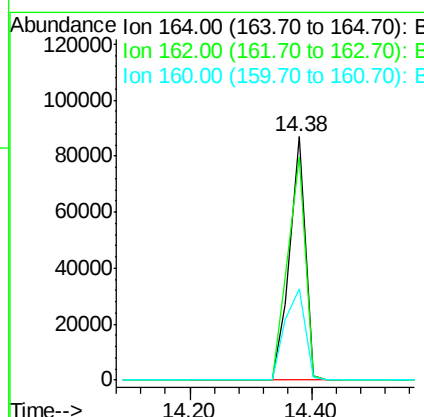
RT: 14.38 min Scan# 862

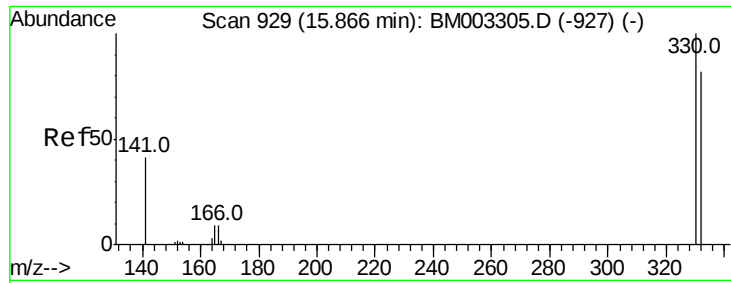
Delta R.T. -0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 154148 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 91.7  | 78.3  | 117.5  |
| 160       | 37.3  | 33.8  | 50.6   |





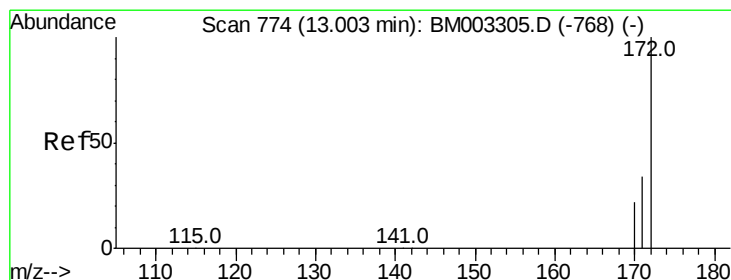
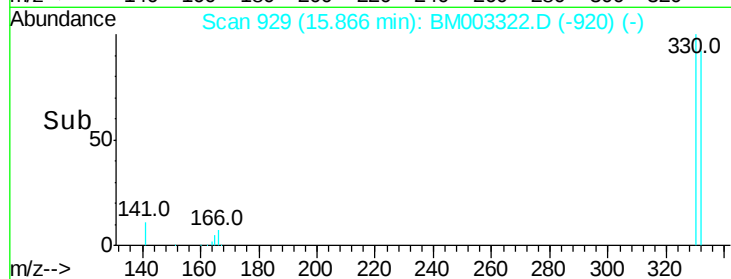
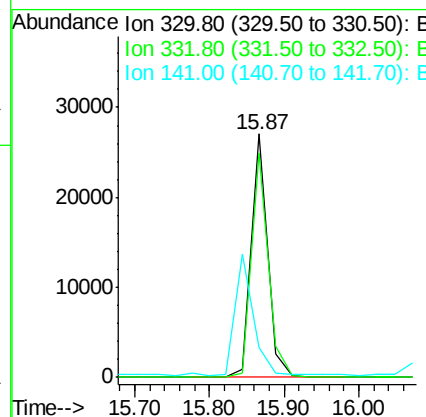
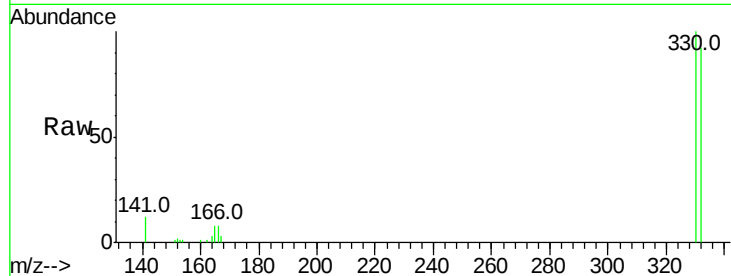
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 2,4,6-Tribromophenol  
 Concen: 11.28 ng  
 RT: 15.87 min Scan# 929  
 Delta R.T. 0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.8  | 76.0  | 114.0 |
| 141     | 0.0   | 0.0   | 0.0   |

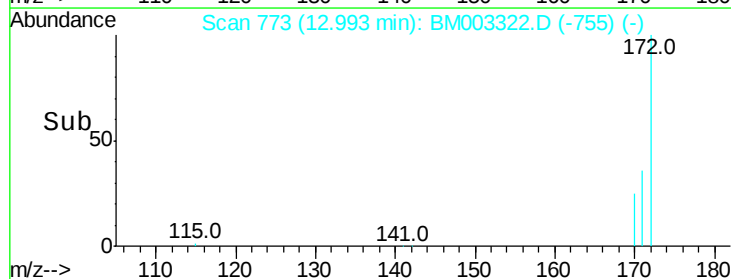
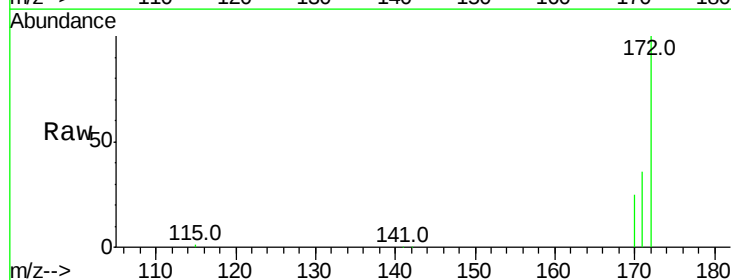
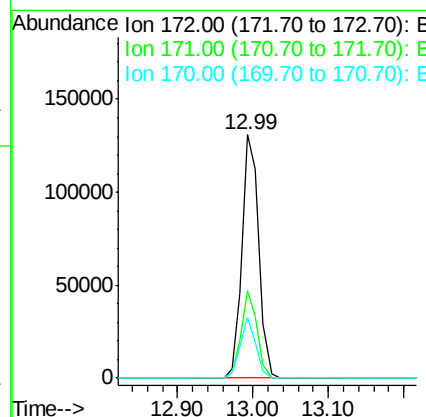
Manual Integrations  
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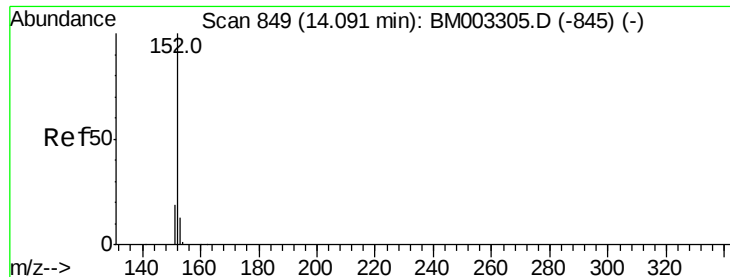
Mmdadoda  
 12/1/2015 6:33:55 PM



#15  
 2-Fluorobiphenyl  
 Concen: 4.09 ng  
 RT: 12.99 min Scan# 773  
 Delta R.T. -0.01 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 28.0  | 42.0  |
| 170     | 25.0  | 18.9  | 28.3  |





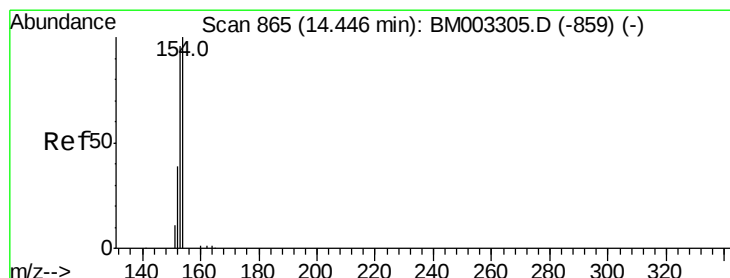
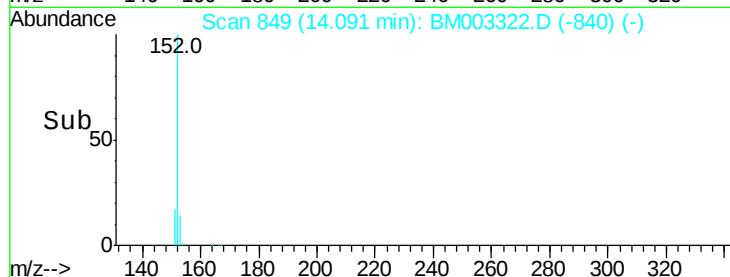
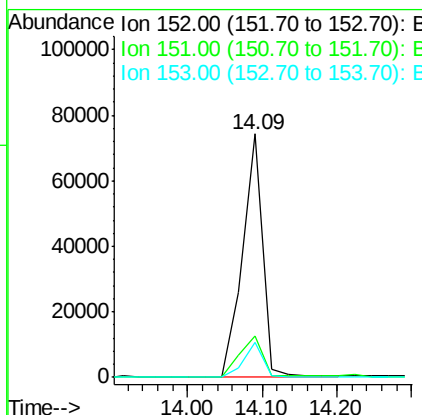
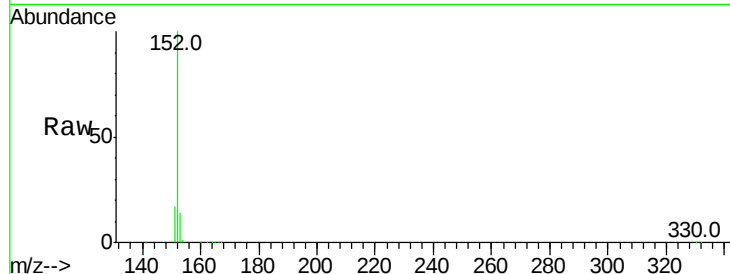
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Acenaphthylene  
Concen: 2.44 ng  
RT: 14.09 min Scan# 849  
Delta R.T. -0.00 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.3  | 15.2  | 22.8  |
| 153     | 13.2  | 10.4  | 15.6  |

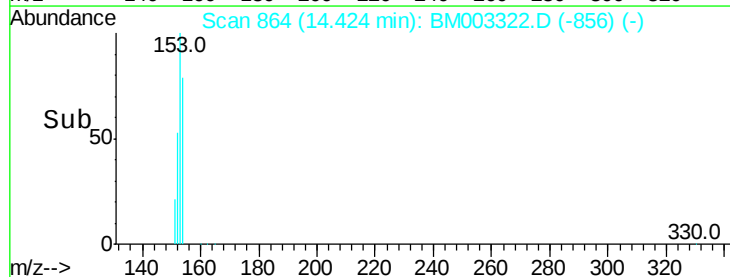
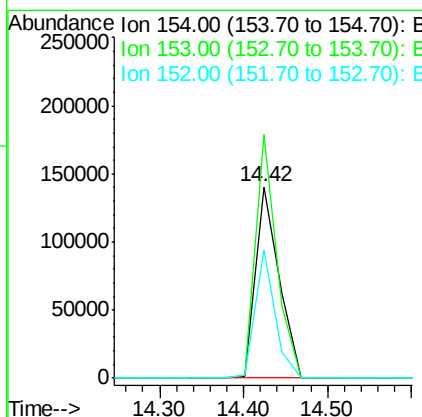
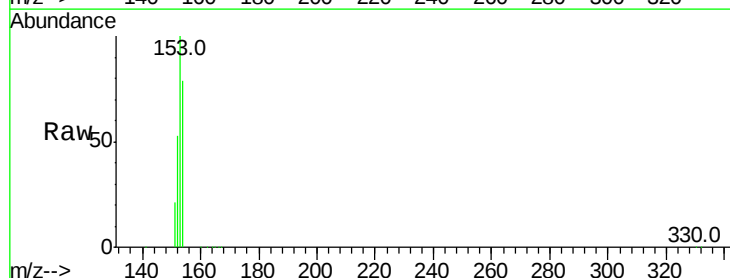
Manual Integrations  
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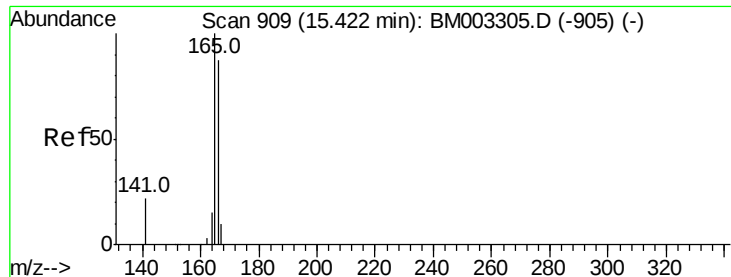
Mmdadoda  
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#17  
Acenaphthene  
Concen: 6.27 ng  
RT: 14.42 min Scan# 864  
Delta R.T. -0.02 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 114.6 | 0.0   | 0.0#  |
| 152     | 56.1  | 0.0   | 0.0#  |





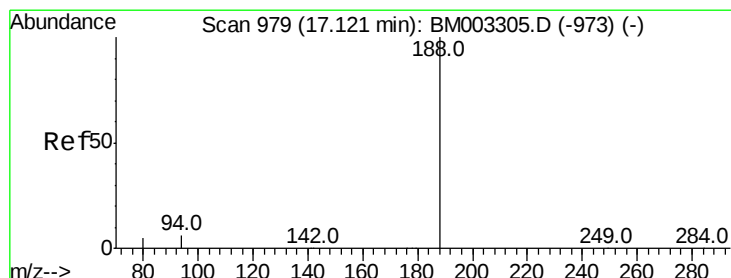
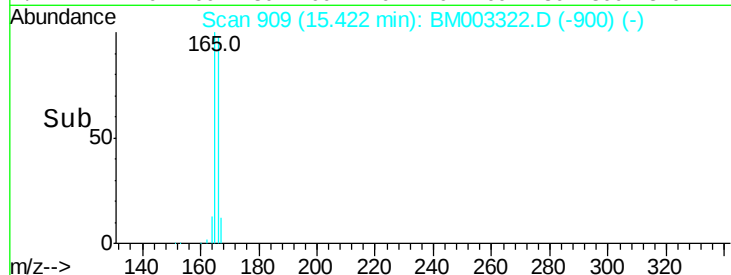
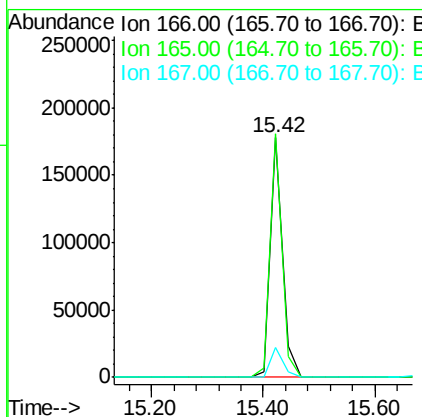
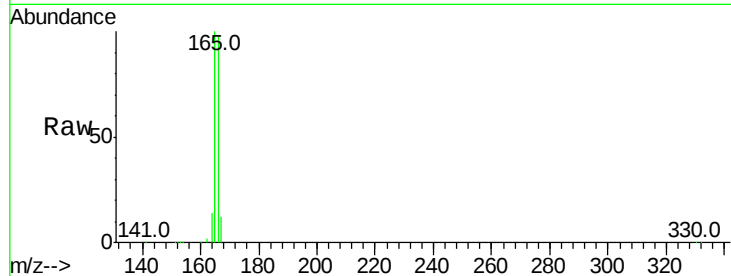
#18  
**Fluorene**  
 Concen: 6.23 ng  
 RT: 15.42 min Scan# 909  
 Delta R.T. -0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 274050 |       |       |
| 165     | 98.8  | 80.8   | 121.2 |       |
| 167     | 13.0  | 10.5   | 15.7  |       |

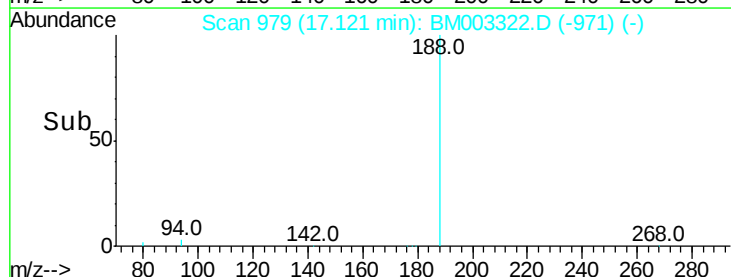
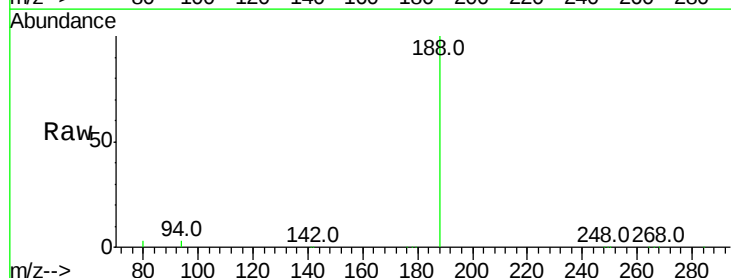
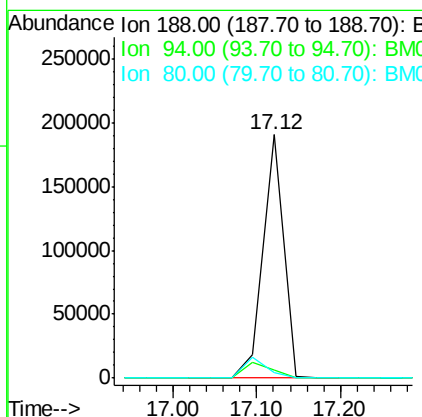
Manual Integrations  
 APPROVED

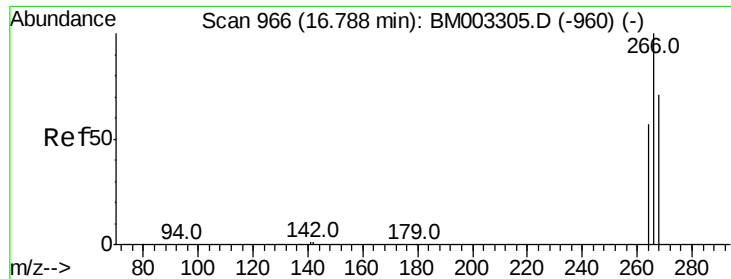
Mmdadoda  
 12/1/2015 6:33:55 PM



#19  
**Phenanthrene-d10**  
 Concen: 5.00 ng  
 RT: 17.12 min Scan# 979  
 Delta R.T. -0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 322261 |       |       |
| 94      | 3.2   | 1.8    | 2.6#  |       |
| 80      | 2.5   | 1.4    | 2.0#  |       |





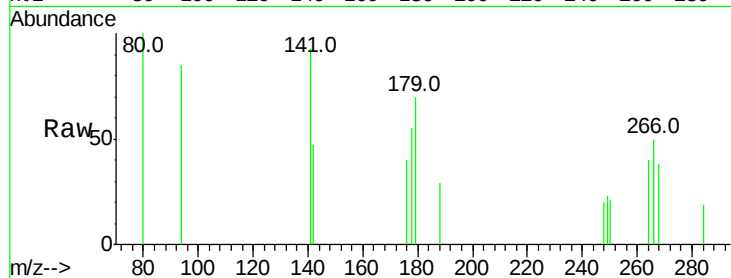
#22  
 Pentachlorophenol  
 Concen: 0.16 ng  
 RT: 16.76 min Scan# 965  
 Delta R.T. -0.03 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

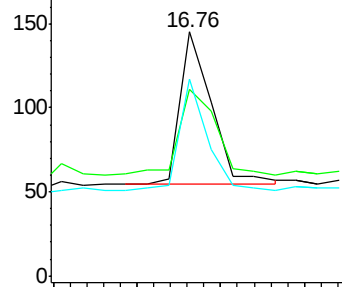
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 76.6  | 45.8  | 68.8# |
| 264     | 80.7  | 56.7  | 85.1  |

Manual Integrations  
 APPROVED

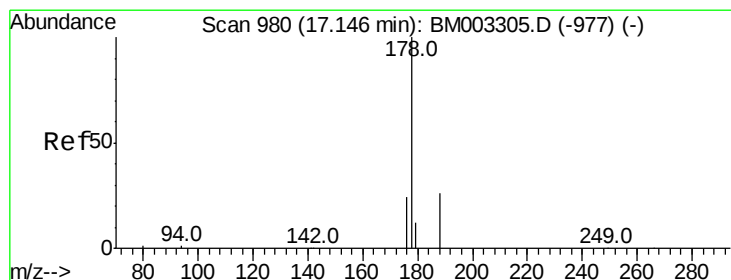
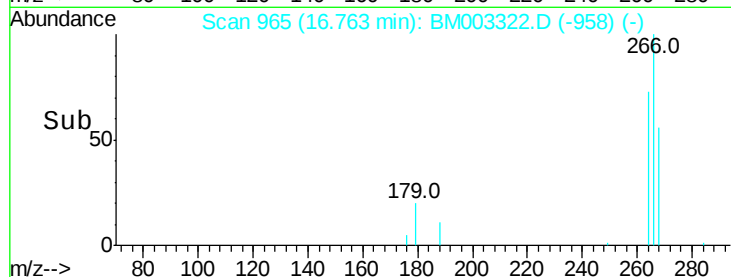
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Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

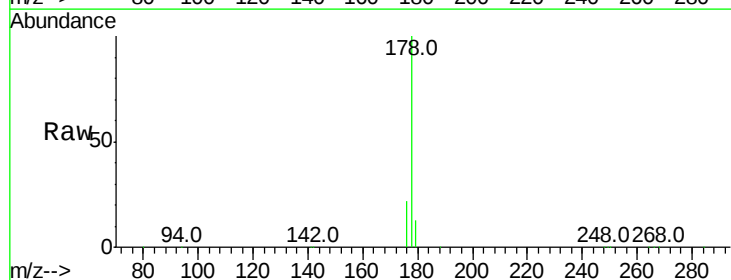


Time--> 16.60 16.70 16.80 16.90

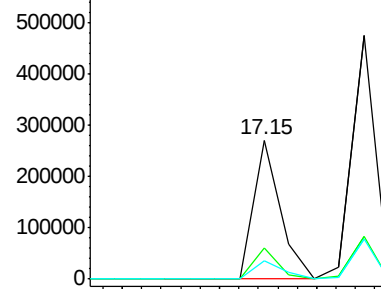


#23  
 Phenanthrene  
 Concen: 7.01 ng  
 RT: 17.15 min Scan# 980  
 Delta R.T. 0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

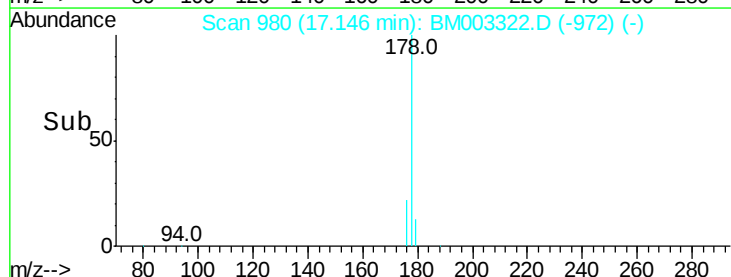
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.6  | 15.9  | 23.9  |
| 179     | 14.8  | 11.7  | 17.5  |

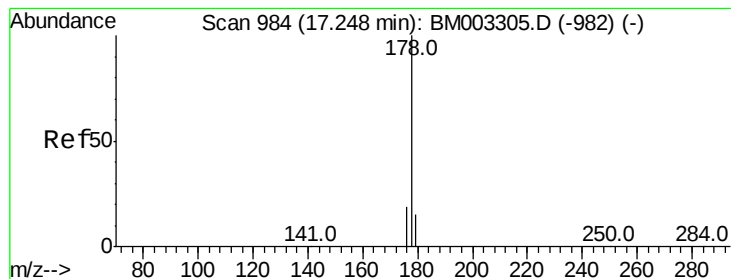


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E



Time--> 17.00 17.10 17.20





#24

Anthracene

Concen: 12.90 ng

RT: 17.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: BM003322.D

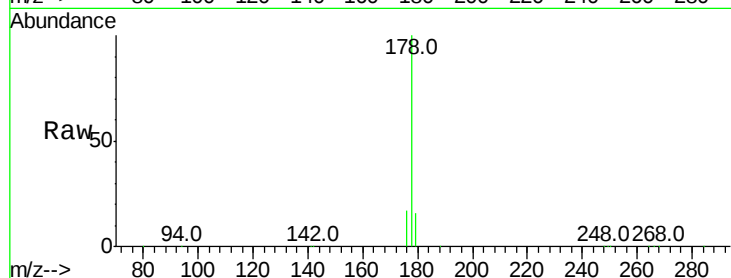
Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

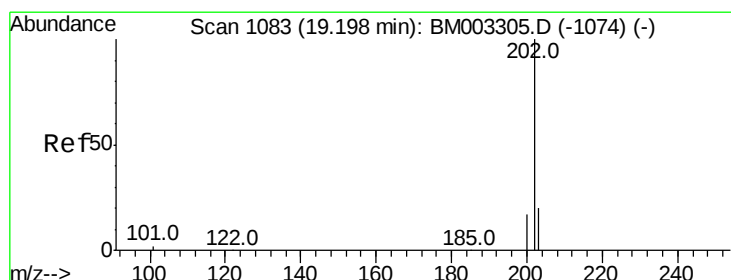
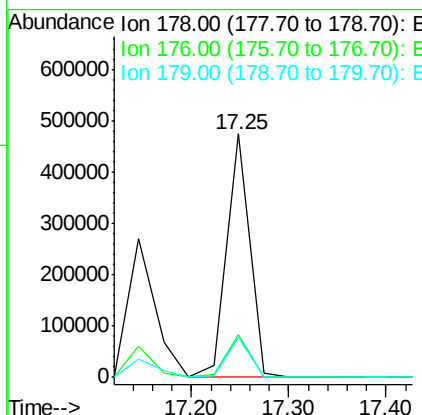
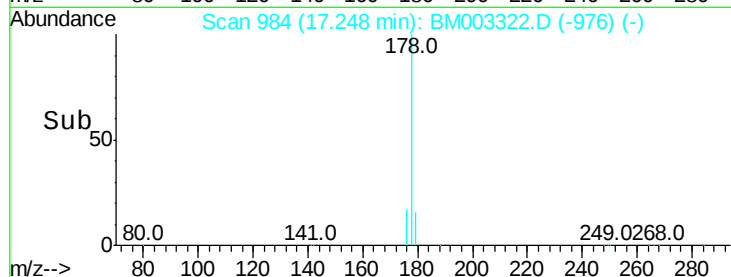
PT-PAH-SOIL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 775701 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 17.9  | 14.1  | 21.1   |
| 179       | 16.1  | 12.8  | 19.2   |

Manual Integrations  
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12/1/2015 6:33:55 PM



#25

Fluoranthene

Concen: 6.45 ng

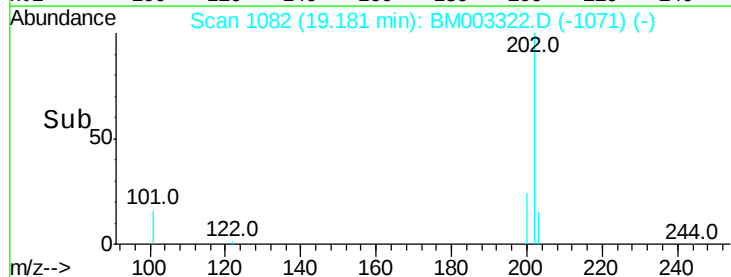
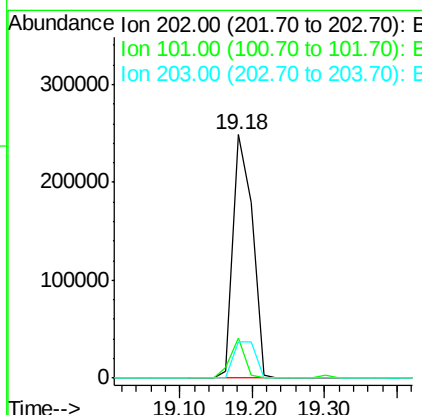
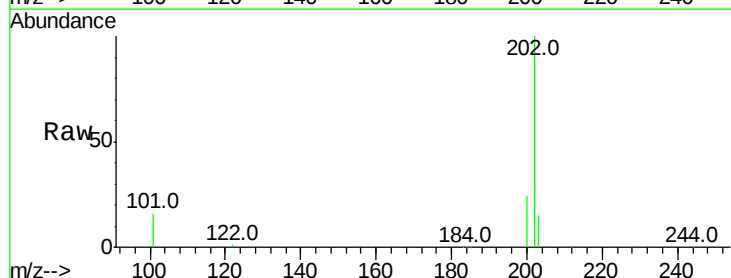
RT: 19.18 min Scan# 1082

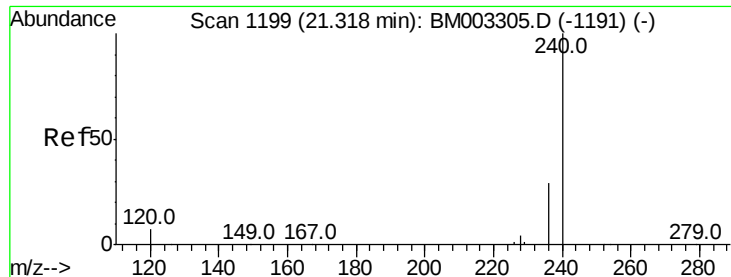
Delta R.T. -0.02 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 453245 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.5  | 9.9   | 14.9   |
| 203       | 17.2  | 13.9  | 20.9   |





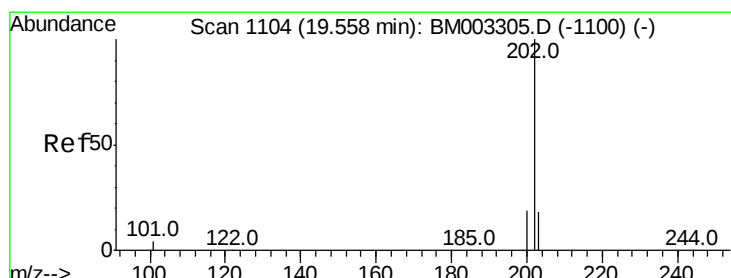
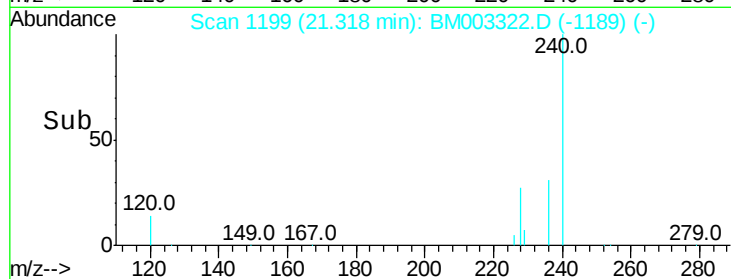
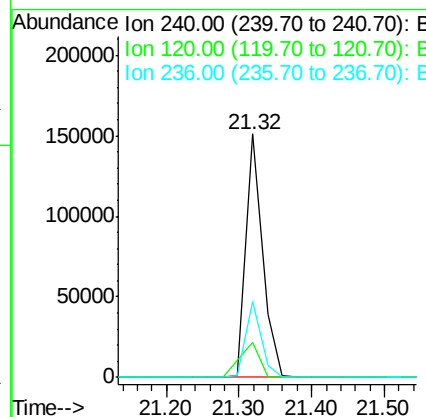
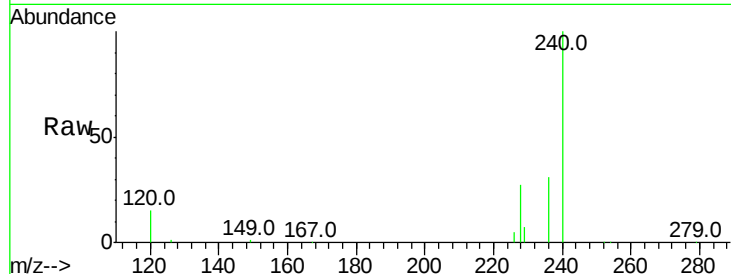
#26  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.32 min Scan# 1199  
Delta R.T. -0.00 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.6  | 1.0   | 1.4#  |
| 236     | 31.3  | 17.9  | 26.9# |

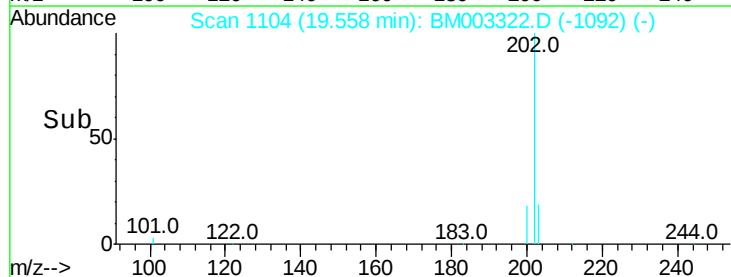
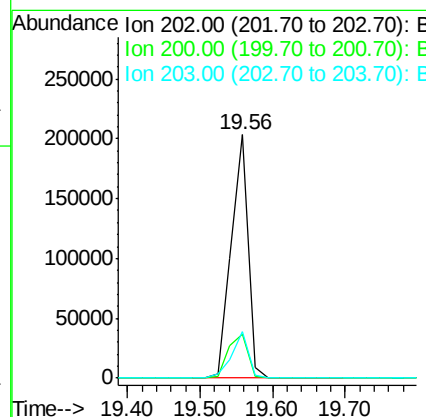
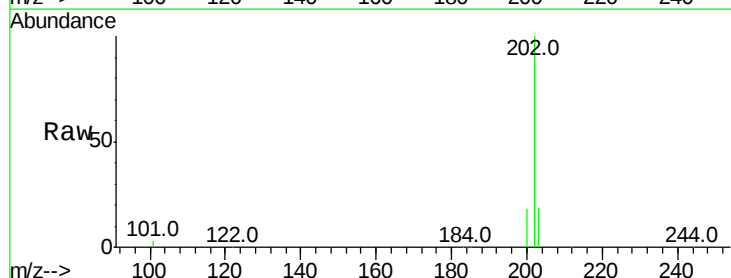
Manual Integrations  
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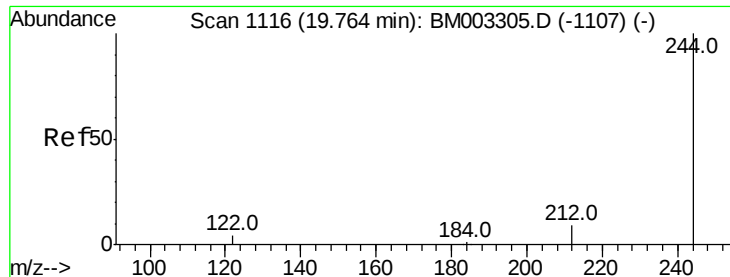
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12/1/2015 6:33:55 PM



#28  
Pyrene  
Concen: 4.50 ng  
RT: 19.56 min Scan# 1104  
Delta R.T. -0.00 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.7  | 25.1  |
| 203     | 19.1  | 13.8  | 20.6  |





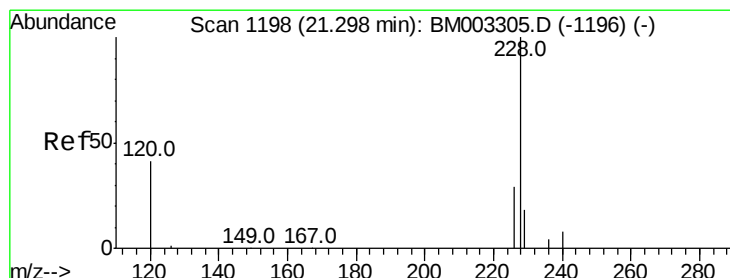
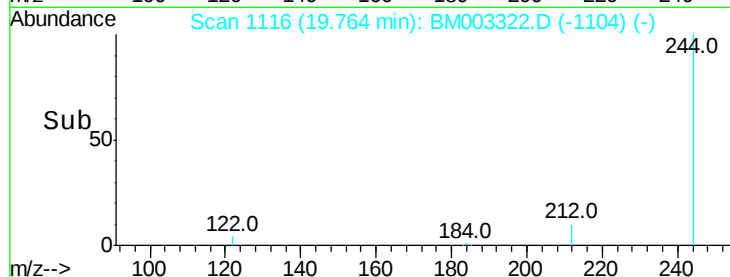
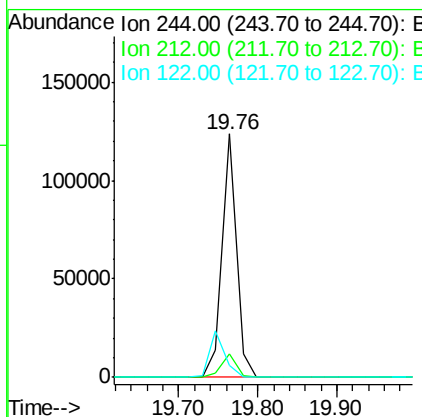
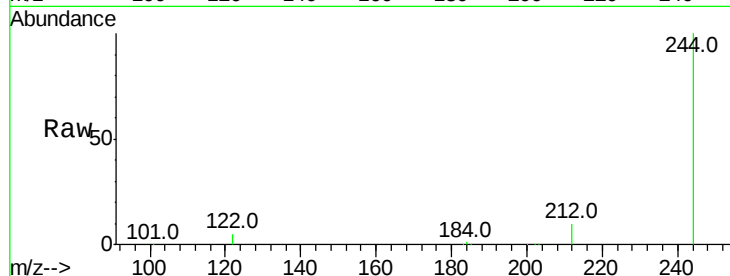
#29  
 Terphenyl-d14  
 Concen: 4.65 ng  
 RT: 19.76 min Scan# 1116  
 Delta R.T. -0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.6   | 6.5   | 9.7   |
| 122     | 4.8   | 2.0   | 3.0   |

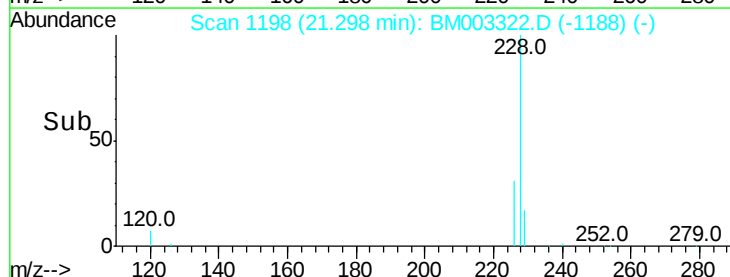
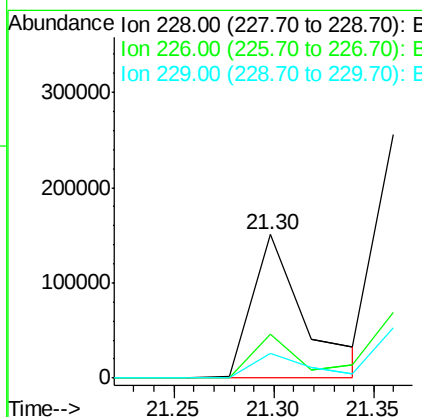
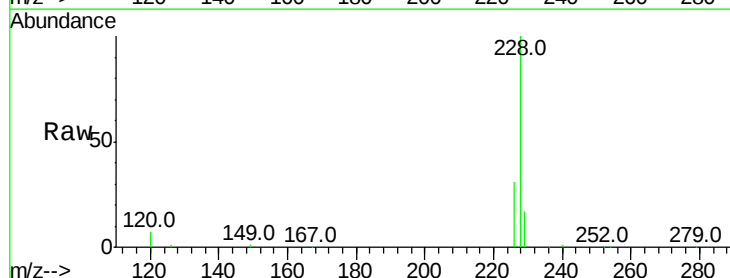
Manual Integrations  
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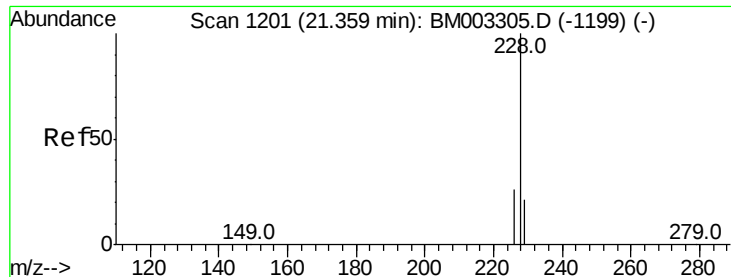
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 12/1/2015 6:33:55 PM



#30  
 Benzo(a)anthracene  
 Concen: 4.60 ng m  
 RT: 21.30 min Scan# 1198  
 Delta R.T. -0.00 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 17.8  | 26.6  |
| 229     | 17.0  | 18.0  | 27.0  |





#32

Chrysene

Concen: 4.81 ng m

RT: 21.36 min Scan# 1201

Delta R.T. 0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL

Tot Ion:228 Resp: 323054

Ion Ratio Lower Upper

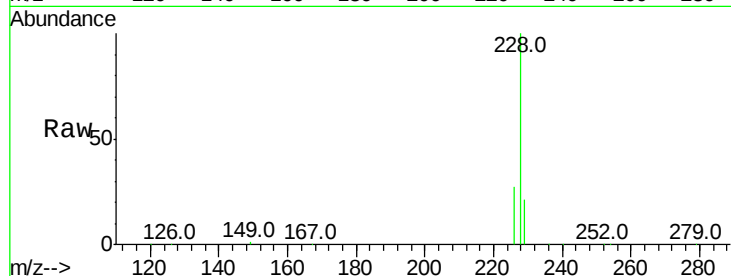
228 100

226 27.0 25.5 38.3

229 20.9 14.3 21.5

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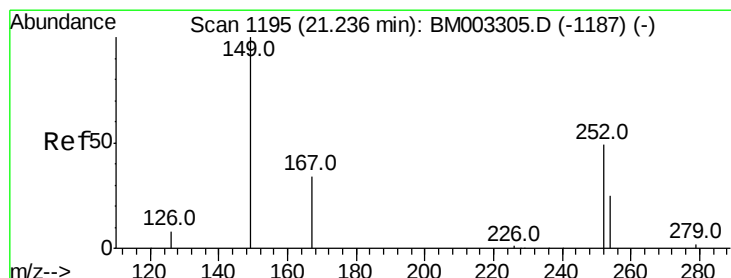
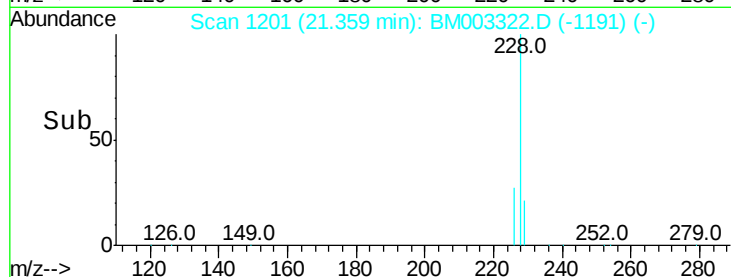
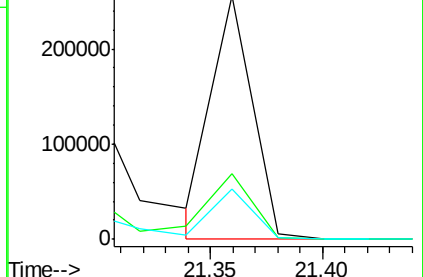
Mmdadoda  
12/1/2015 6:33:55 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Bis(2-ethylhexyl)phthalate

Concen: 1.42 ng

RT: 21.24 min Scan# 1195

Delta R.T. 0.00 min

Lab File: BM003322.D

Acq: 30 Nov 2015 16:32

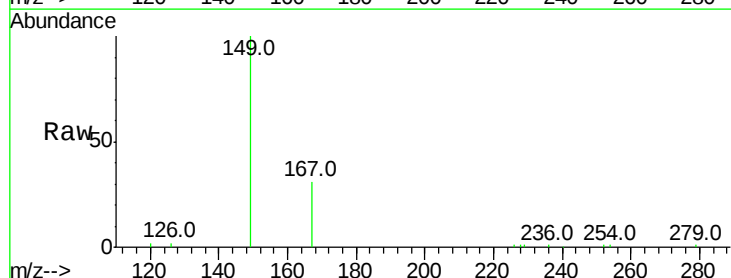
Tgt Ion:149 Resp: 27102

Ion Ratio Lower Upper

149 100

167 28.2 19.6 29.4

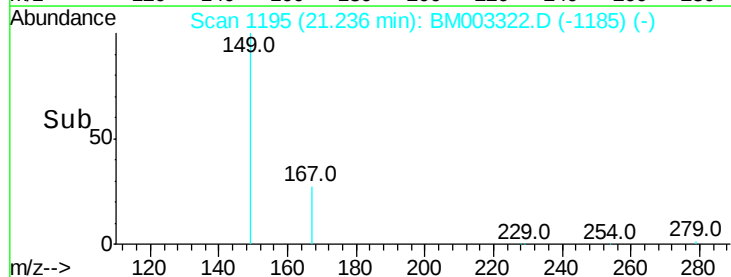
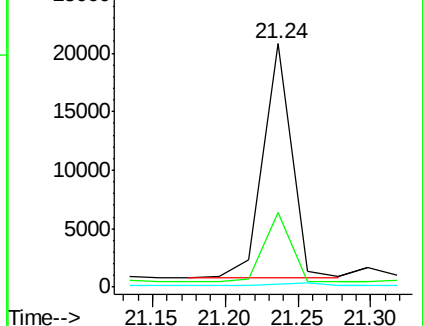
279 0.0 0.0 0.0

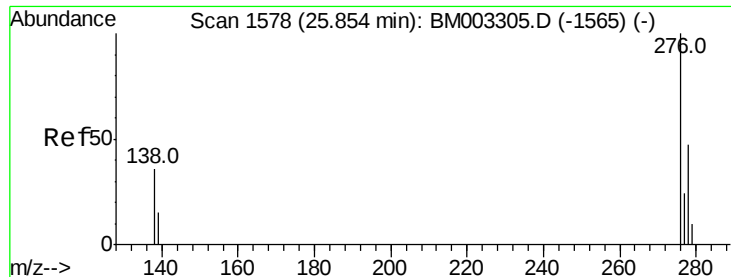


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





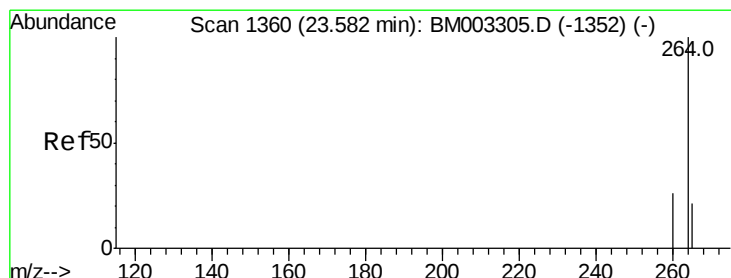
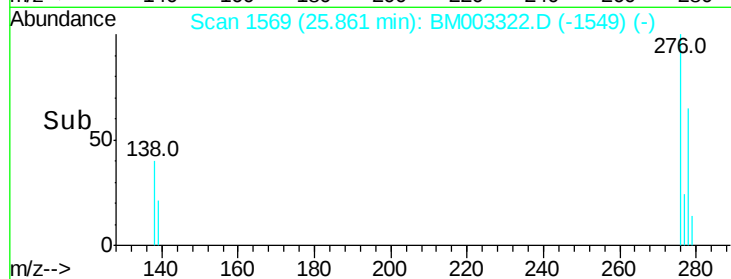
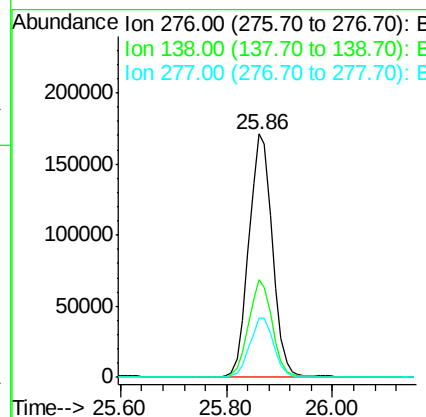
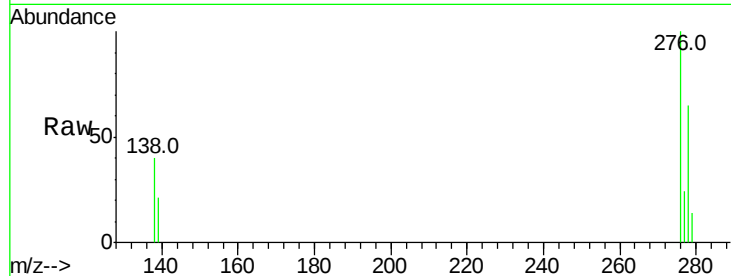
#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.55 ng  
 RT: 25.86 min Scan# 1569  
 Delta R.T. 0.01 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PT-PAH-SOIL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 39.2  | 19.1       | 28.7# |
| 277     | 24.8  | 15.9       | 23.9# |

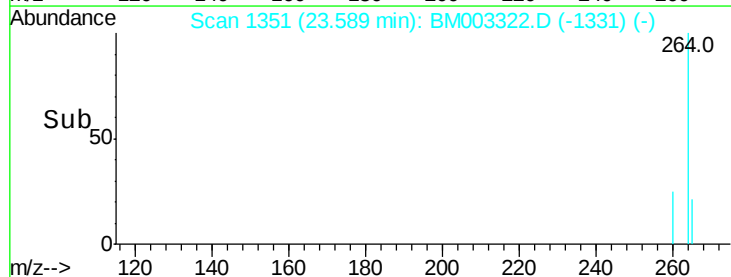
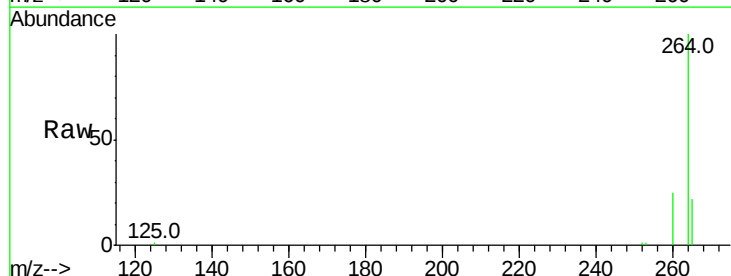
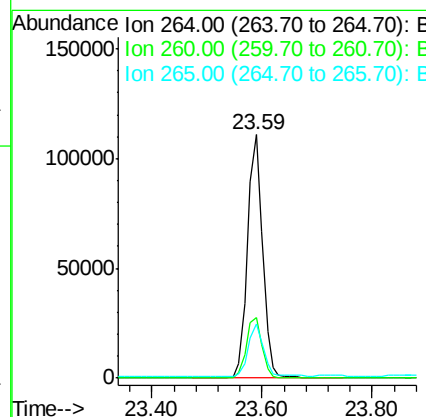
Manual Integrations  
 APPROVED

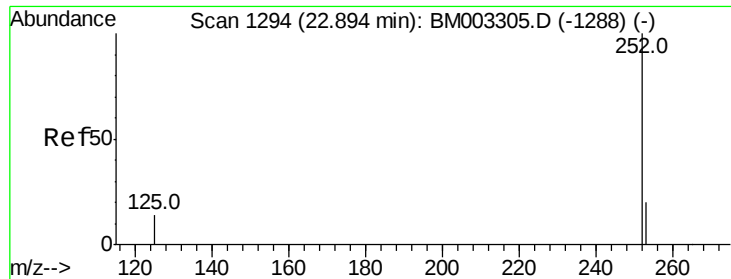
Mmdadoda  
 12/1/2015 6:33:55 PM



#35  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.59 min Scan# 1351  
 Delta R.T. 0.01 min  
 Lab File: BM003322.D  
 Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 25.1  | 19.6       | 29.4  |
| 265     | 22.2  | 18.4       | 27.6  |





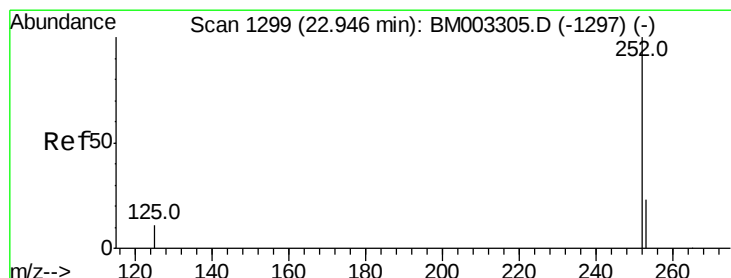
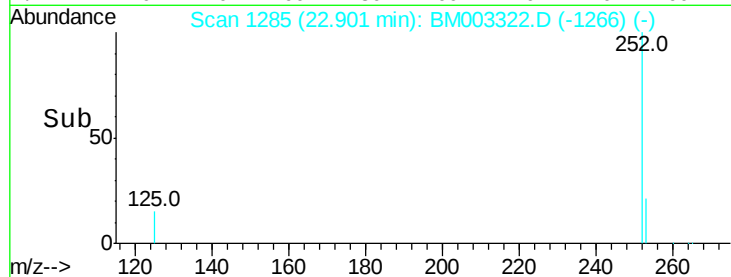
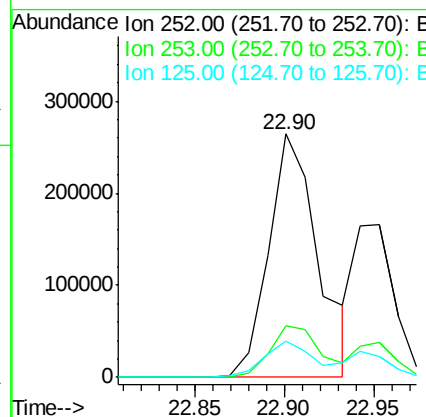
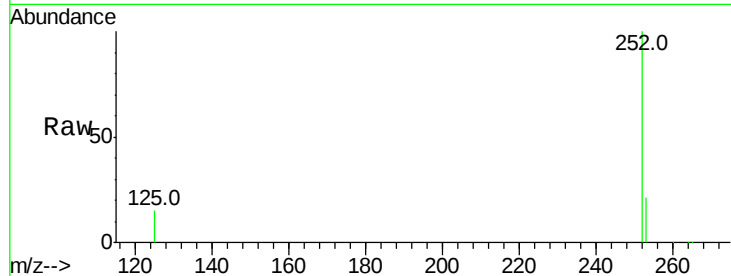
#36  
Benzo(b)fluoranthene  
Concen: 8.31 ng  
RT: 22.90 min Scan# 1285  
Delta R.T. 0.01 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.0  | 18.2  | 27.4  |
| 125     | 15.0  | 10.3  | 15.5  |

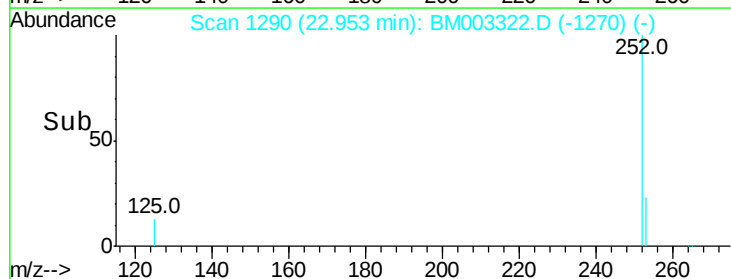
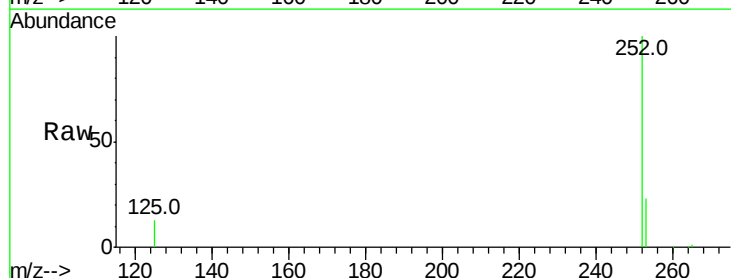
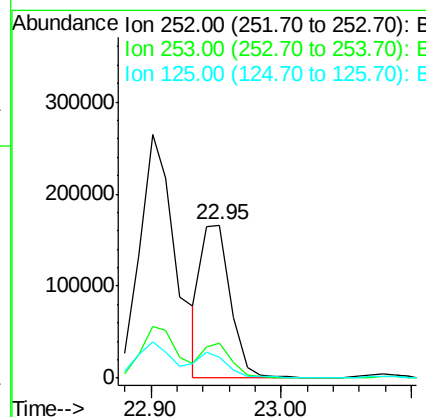
Manual Integrations  
APPROVED

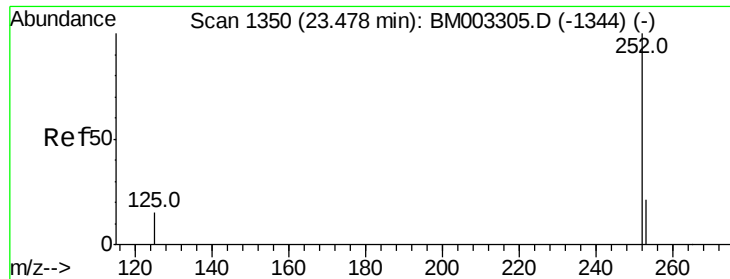
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12/1/2015 6:33:55 PM



#37  
Benzo(k)fluoranthene  
Concen: 4.69 ng  
RT: 22.95 min Scan# 1290  
Delta R.T. 0.01 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.5  | 26.3  |
| 125     | 13.5  | 10.7  | 16.1  |





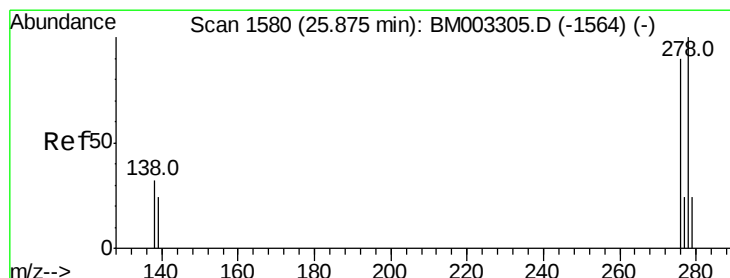
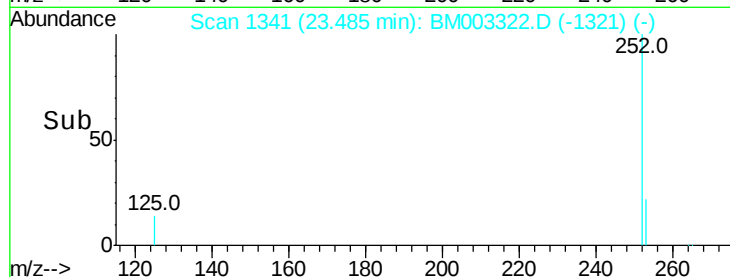
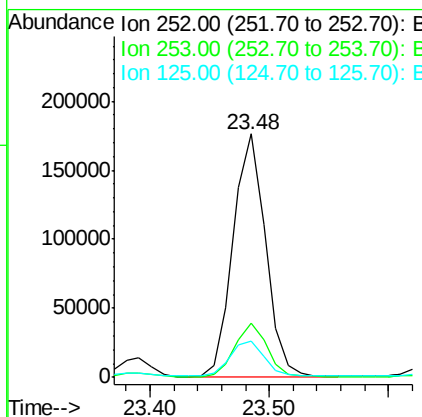
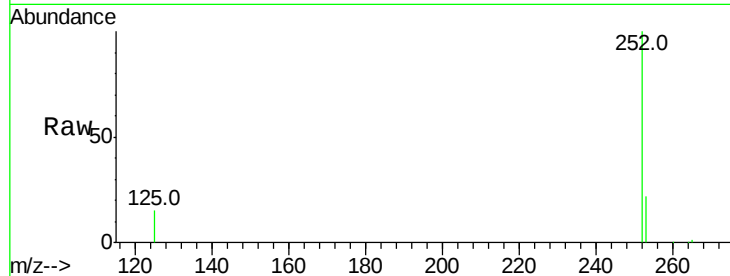
#38  
Benzo(a)pyrene  
Concen: 6.83 ng  
RT: 23.48 min Scan# 1341  
Delta R.T. 0.01 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

Instrument :  
BNA\_M  
ClientSampleId :  
PT-PAH-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 18.7  | 28.1  |
| 125     | 14.7  | 11.6  | 17.4  |

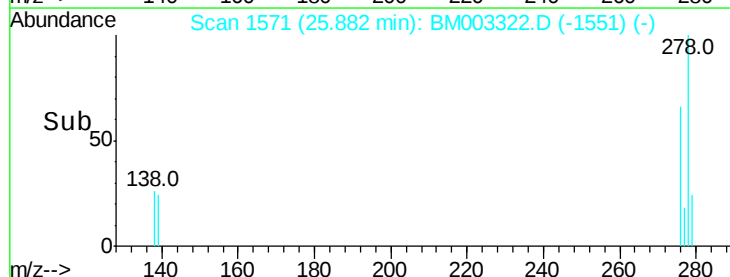
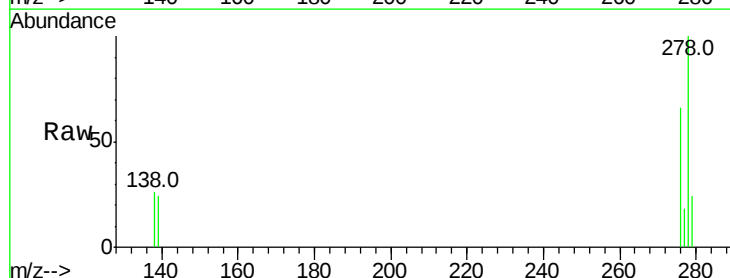
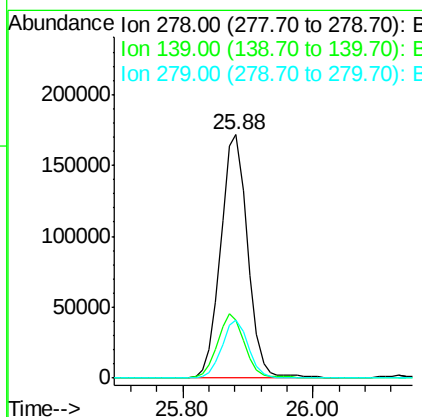
Manual Integrations  
APPROVED

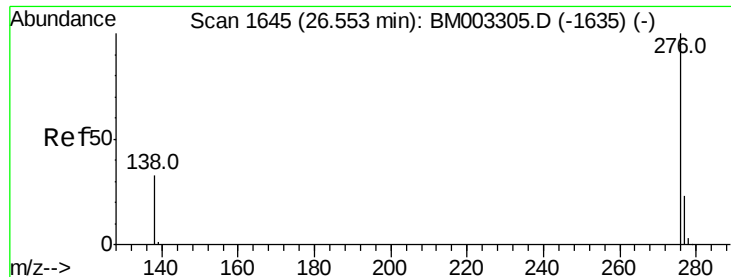
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#39  
Dibenzo(a,h)anthracene  
Concen: 11.64 ng  
RT: 25.88 min Scan# 1571  
Delta R.T. 0.01 min  
Lab File: BM003322.D  
Acq: 30 Nov 2015 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.0  | 18.2  | 27.4  |
| 279     | 23.8  | 18.8  | 28.2  |





#40

Benzo(a,h,i)perylene

Concen: 3.93 ng

RT: 26.56 min Scan# 1636

Delta R.T. 0.01 min

Lab File: BM003322.D

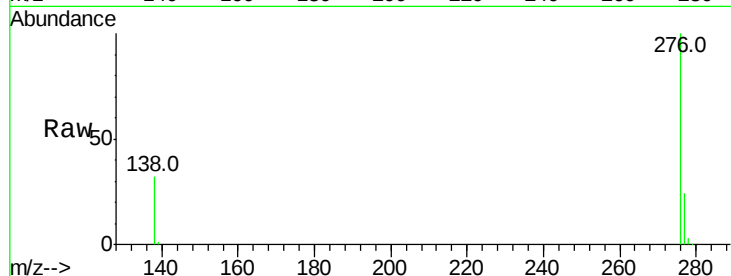
Acq: 30 Nov 2015 16:32

Instrument :

BNA\_M

ClientSampleId :

PT-PAH-SOIL



Tot Ion: 276 Resp: 197909

Ion Ratio Lower Upper

276 100

277 23.6 19.0 28.6

138 32.0 22.3 33.5

Manual Integrations  
APPROVED

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12/1/2015 6:33:55 PM

