

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031919\  
 Data File : BF113127.D  
 Acq On : 19 Mar 2019 16:01  
 Operator : JU/SJ  
 Sample : K1970-05 20X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5-E.WALL-SOUTH

Manual Integrations  
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Quant Time: Mar 20 08:12:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 163571   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.00  | 136  | 554545   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.76  | 164  | 283448   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.24 | 188  | 582055   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.86 | 240  | 402508   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.27 | 264  | 423943   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 70036    | 6.66   | ng    | -0.02    |
| 7) Phenol-d6                | 6.36  | 99   | 108855   | 8.24   | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 81923    | 8.84   | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 25230    | 8.38   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 126117   | 4.55   | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 135460   | 6.52   | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 37) 2-Methylnaphthalene     | 8.72  | 142  | 993728   | 55.891 | ng    | 99       |
| 38) 1-Methylnaphthalene     | 8.82  | 142  | 654437   | 37.998 | ng    | 99       |
| 52) Acenaphthene            | 9.79  | 154  | 52584    | 2.934  | ng    | # 74     |
| 58) Fluorene                | 10.30 | 166  | 151144m  | 8.175  | ng    |          |
| 71) Phenanthrene            | 11.26 | 178  | 403834   | 13.945 | ng    | 97       |

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

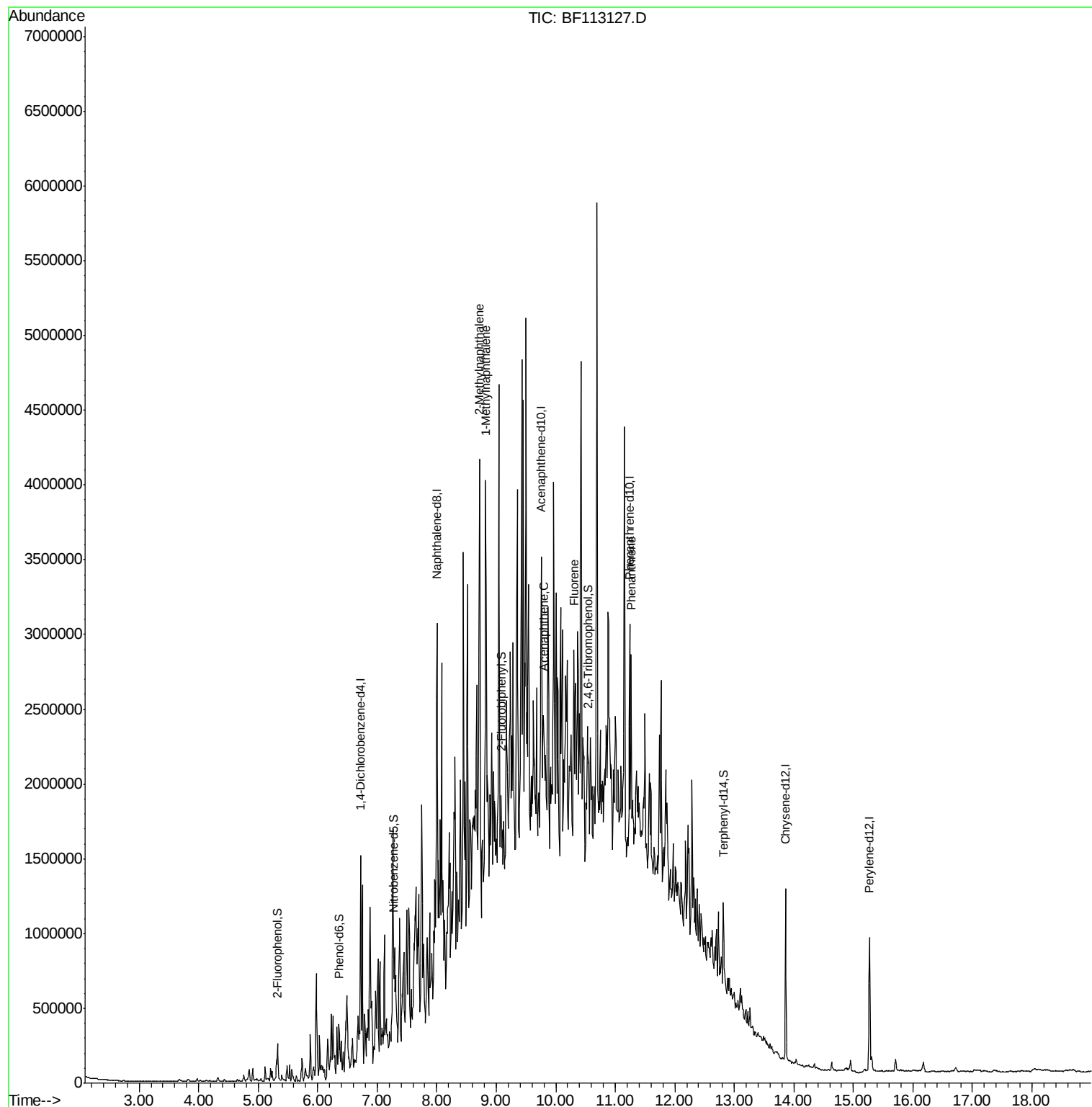
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031919\  
Data File : BF113127.D  
Acq On : 19 Mar 2019 16:01  
Operator : JU/SJ  
Sample : K1970-05 20X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

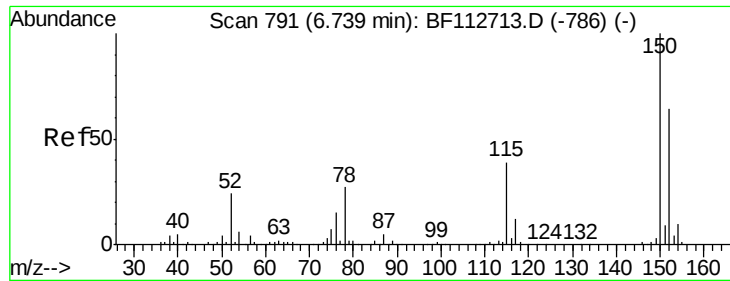
Instrument :  
BNA\_F  
ClientSampleId :  
P-5-E.WALL-SOUTH

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
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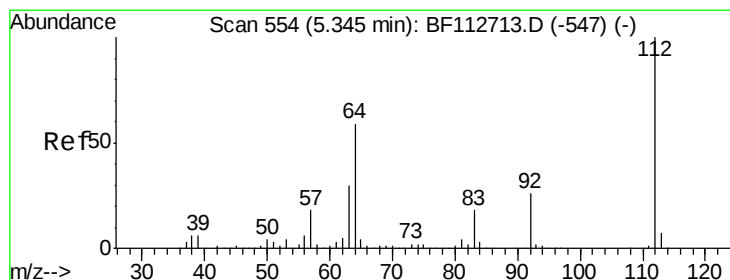
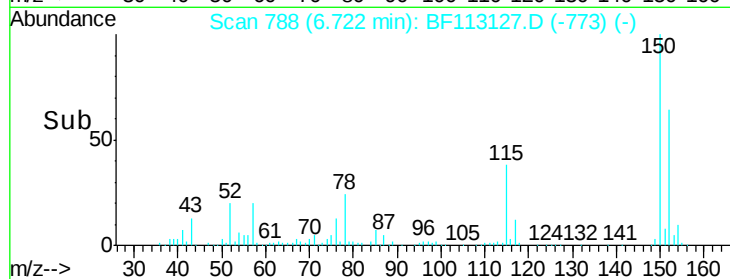
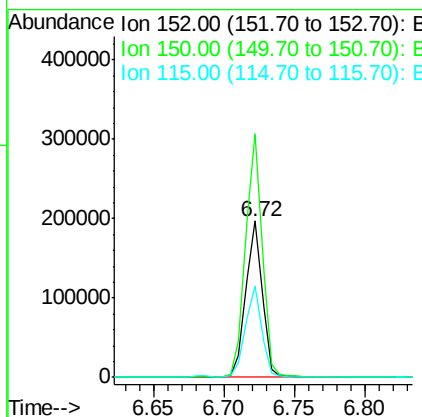
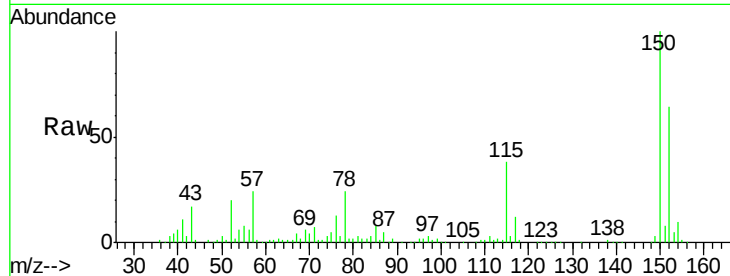
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 788  
 Delta R.T. -0.01 min  
 Lab File: BF113127.D  
 Acq: 19 Mar 2019 16:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5-E.WALL-SOUTH

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 124.2 | 186.2 |
| 115     | 58.7  | 48.2  | 72.4  |

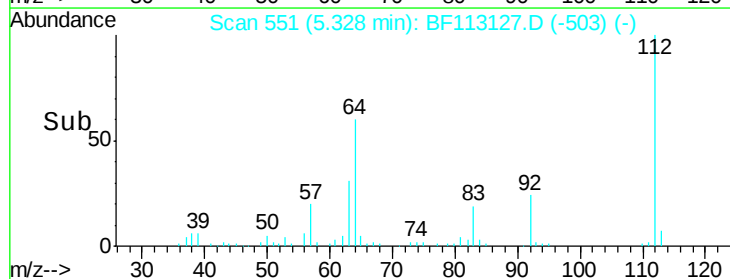
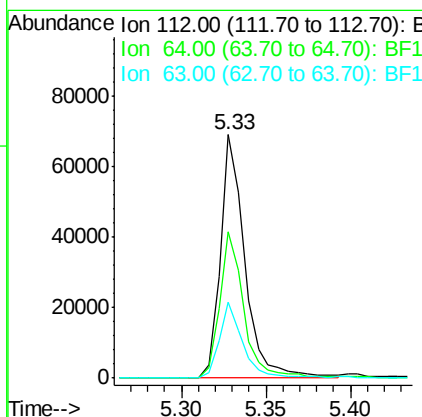
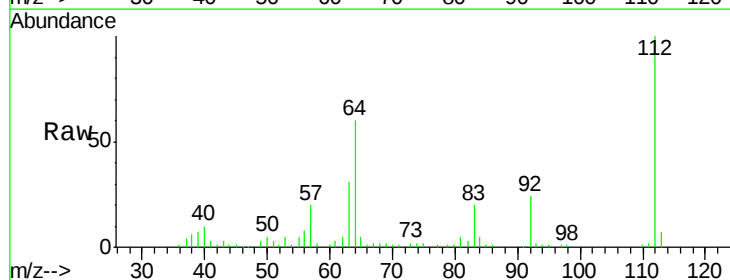
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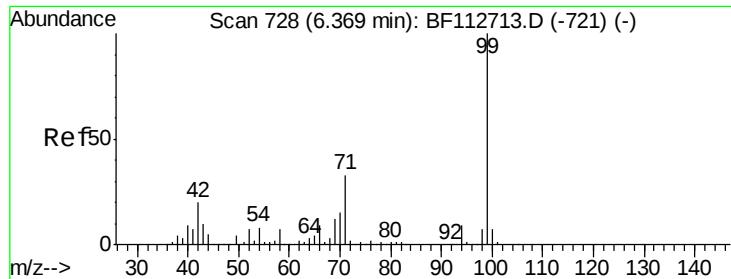
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#5  
 2-Fluorophenol  
 Concen: 6.660 ng  
 RT: 5.33 min Scan# 551  
 Delta R.T. -0.02 min  
 Lab File: BF113127.D  
 Acq: 19 Mar 2019 16:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.3  | 47.6  | 71.4  |
| 63      | 31.0  | 24.4  | 36.6  |





#7

Phenol-d6

Concen: 8.241 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF113127.D

Acq: 19 Mar 2019 16:01

Instrument :

BNA\_F

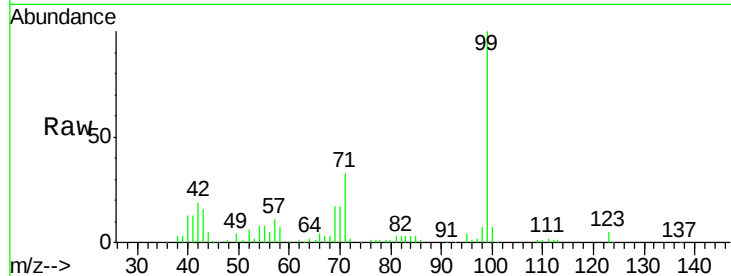
ClientSampleId :

P-5-E.WALL-SOUTH

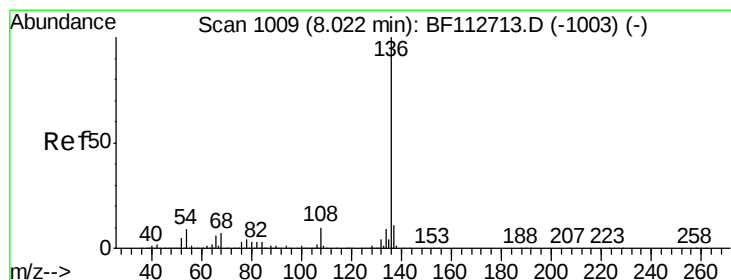
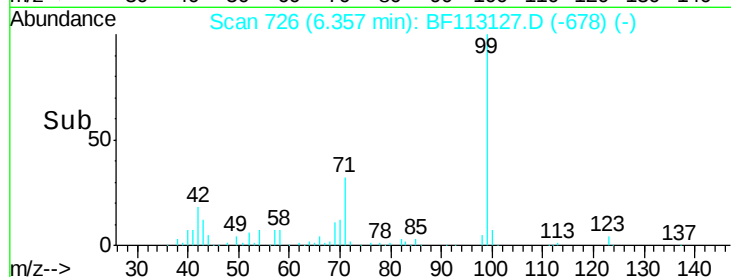
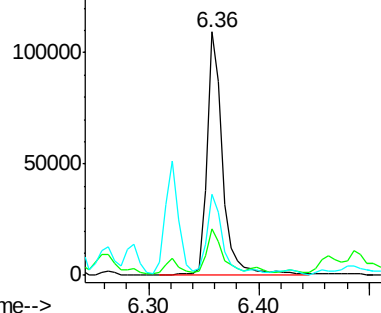
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 108855 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.1  | 16.3  | 24.5   |
| 71        | 33.1  | 26.2  | 39.4   |

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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

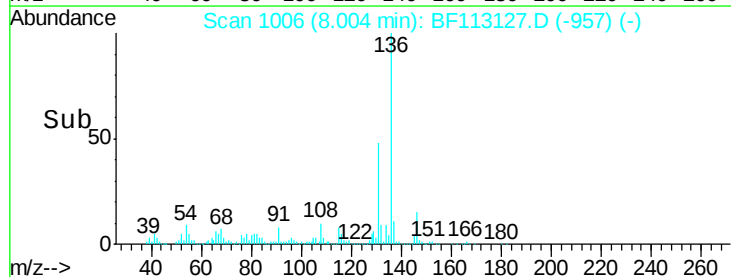
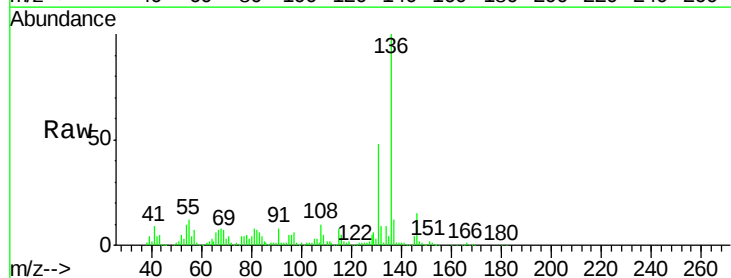
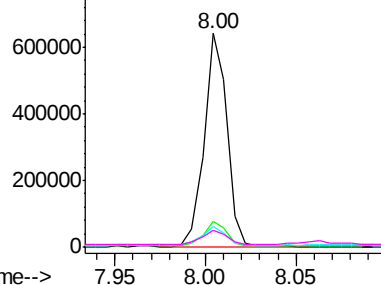
Delta R.T. -0.01 min

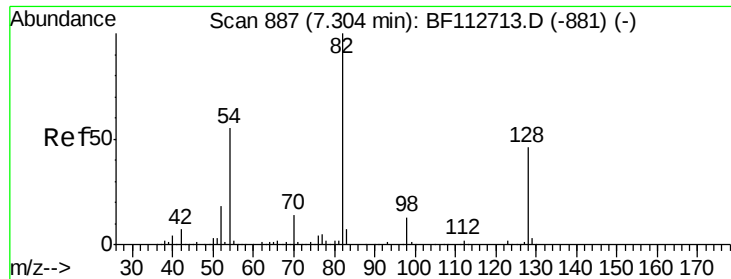
Lab File: BF113127.D

Acq: 19 Mar 2019 16:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 554545 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.9  | 8.9   | 13.3   |
| 54        | 9.5   | 7.3   | 10.9   |
| 68        | 7.9   | 5.4   | 8.2    |

Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1





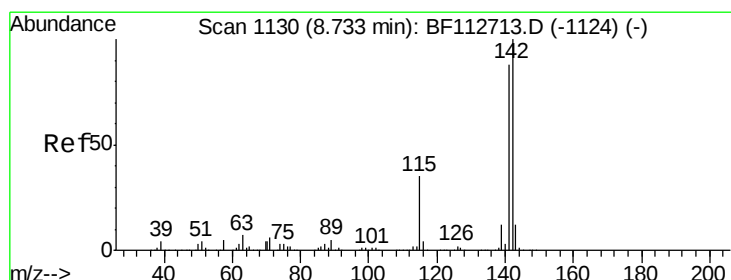
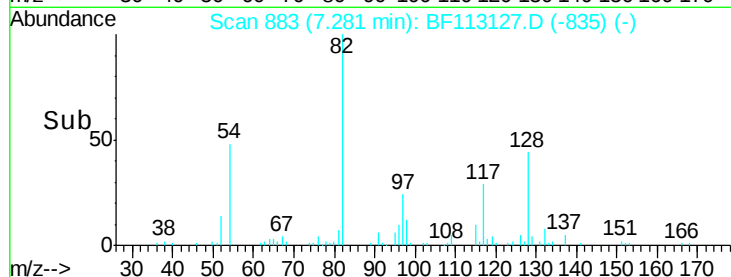
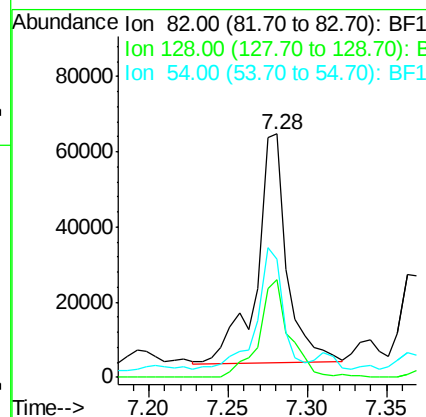
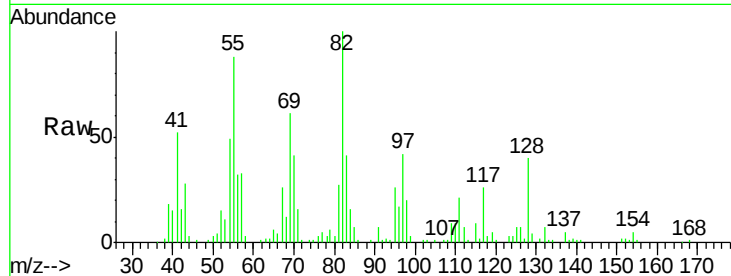
#23  
 Nitrobenzene-d5  
 Concen: 8.840 ng  
 RT: 7.28 min Scan# 883  
 Delta R.T. -0.02 min  
 Lab File: BF113127.D  
 Acq: 19 Mar 2019 16:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5-E.WALL-SOUTH

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.1  | 36.3  | 54.5  |
| 54      | 48.7  | 43.7  | 65.5  |

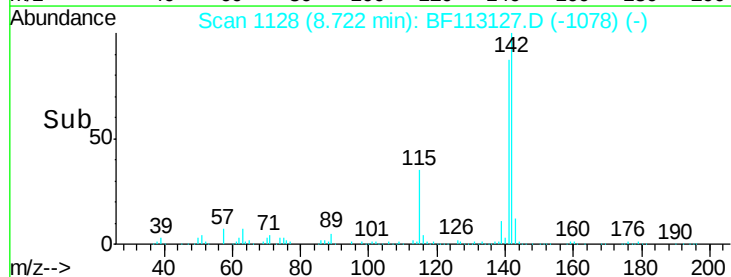
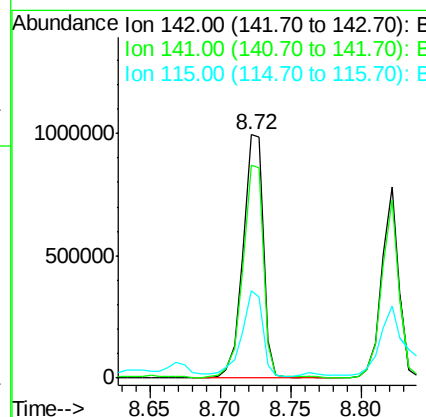
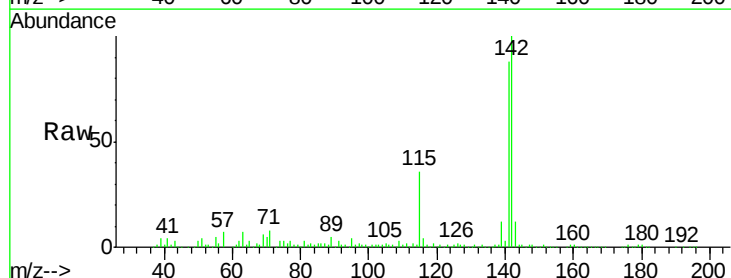
Manual Integrations  
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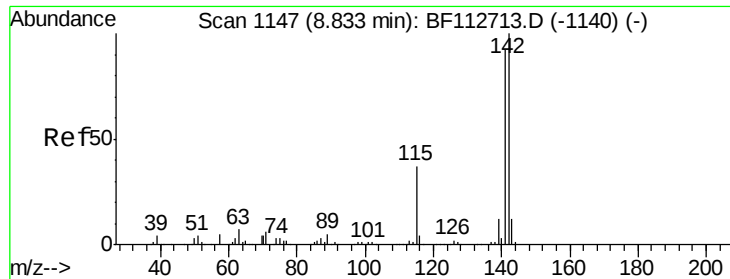
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#37  
 2-Methylnaphthalene  
 Concen: 55.891 ng  
 RT: 8.72 min Scan# 1128  
 Delta R.T. -0.01 min  
 Lab File: BF113127.D  
 Acq: 19 Mar 2019 16:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.6  | 70.3  | 105.5 |
| 115     | 35.8  | 27.8  | 41.6  |





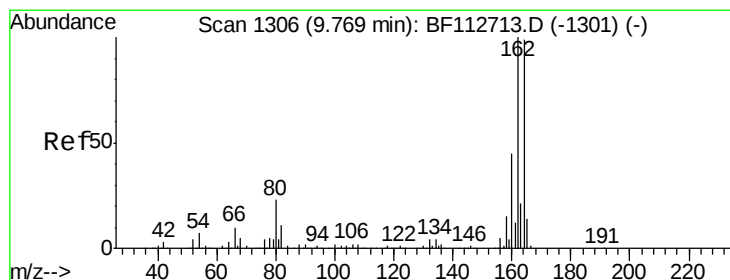
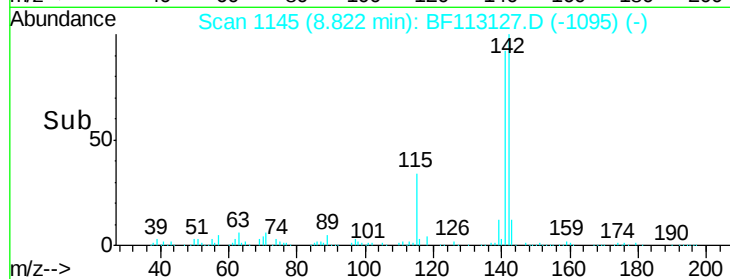
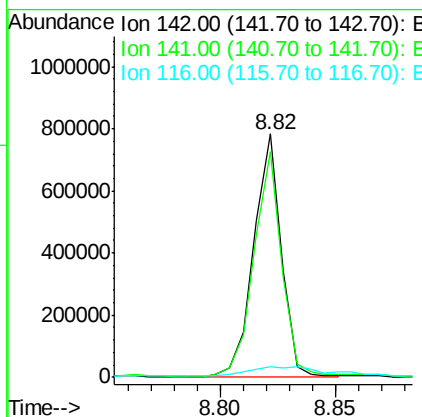
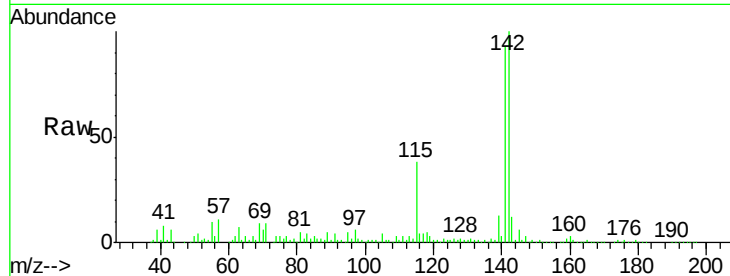
#38  
1-Methylnaphthalene  
Concen: 37.998 ng  
RT: 8.82 min Scan# 1145  
Delta R.T. -0.01 min  
Lab File: BF113127.D  
Acq: 19 Mar 2019 16:01

Instrument :  
BNA\_F  
ClientSampleId :  
P-5-E.WALL-SOUTH

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.8  | 73.7  | 110.5 |
| 116     | 4.4   | 3.1   | 4.7   |

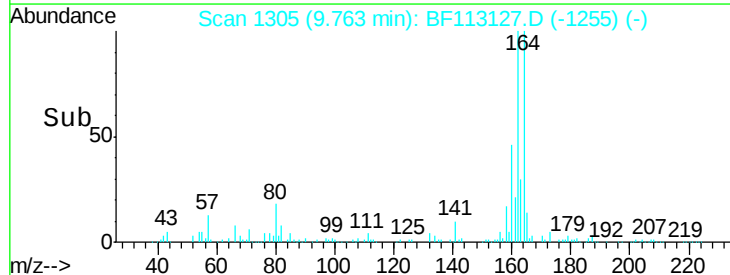
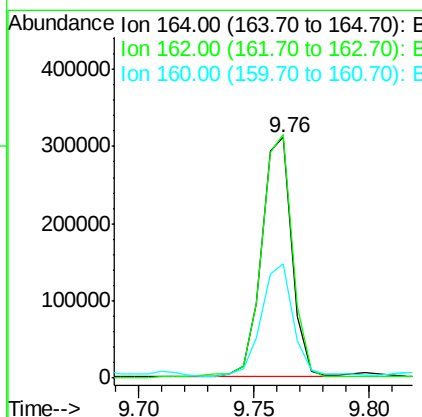
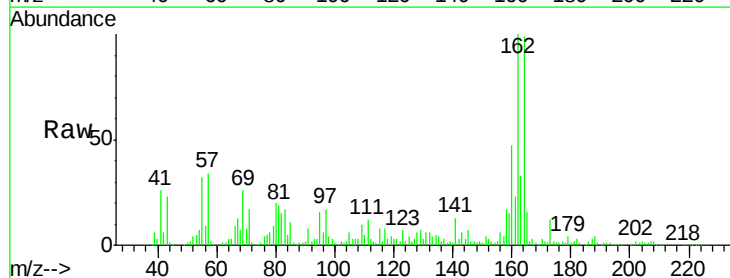
Manual Integrations  
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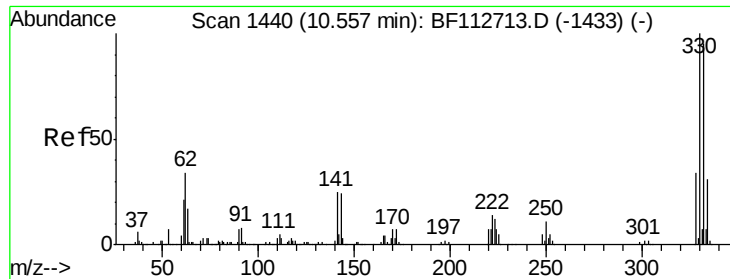
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF113127.D  
Acq: 19 Mar 2019 16:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.2 | 80.6  | 120.8 |
| 160     | 47.3  | 36.0  | 54.0  |





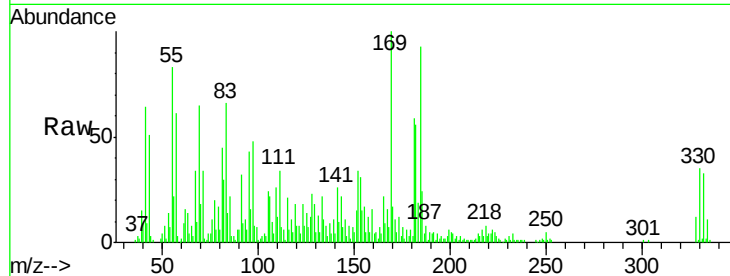
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 2,4,6-Tribromophenol  
 Concen: 8.384 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF113127.D  
 Acq: 19 Mar 2019 16:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5-E.WALL-SOUTH

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 25230 |       |       |
| 332     | 95.9  | 76.2  | 114.4 |       |
| 141     | 88.9  | 27.0  | 40.6  |       |

Manual Integrations  
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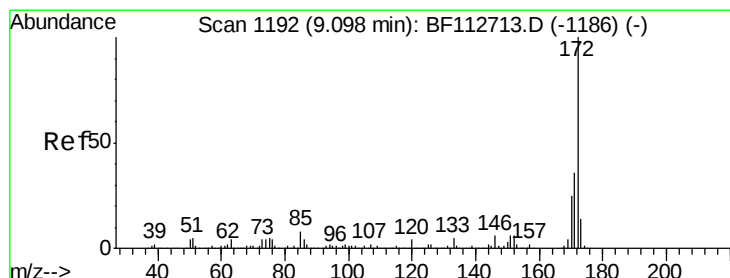
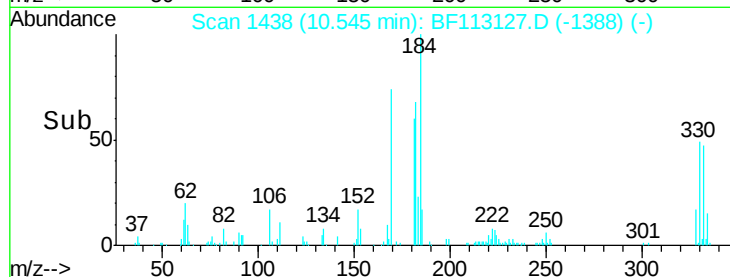
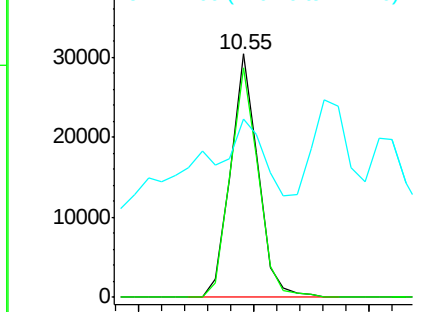


Abundance

Ion 329.80 (329.50 to 330.50): E

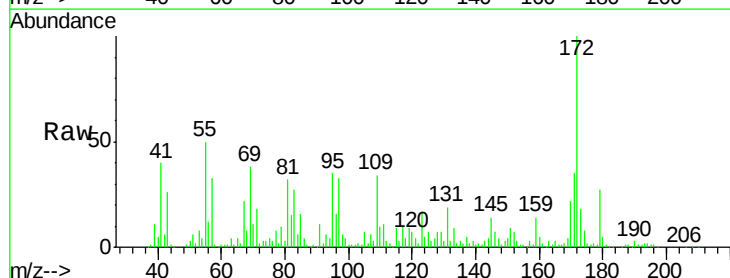
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 4.553 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF113127.D  
 Acq: 19 Mar 2019 16:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 126117 |       |       |
| 171     | 35.4  | 29.0   | 43.4  |       |
| 170     | 22.2  | 20.0   | 30.0  |       |

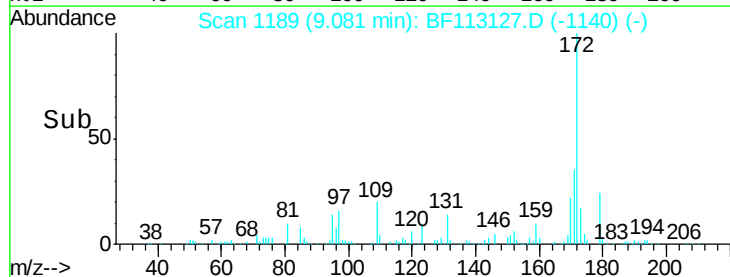
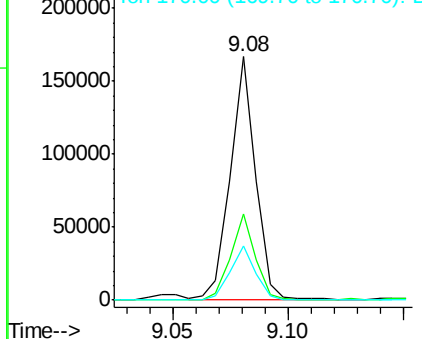


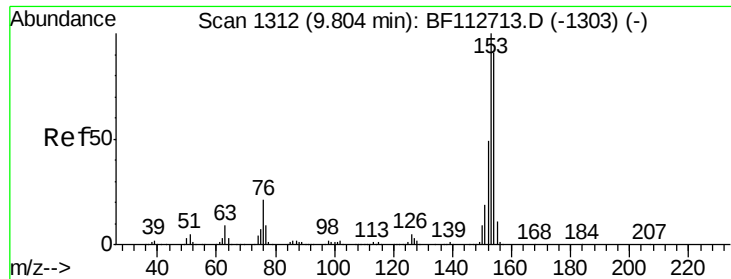
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#52

Acenaphthene

Concen: 2.934 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF113127.D

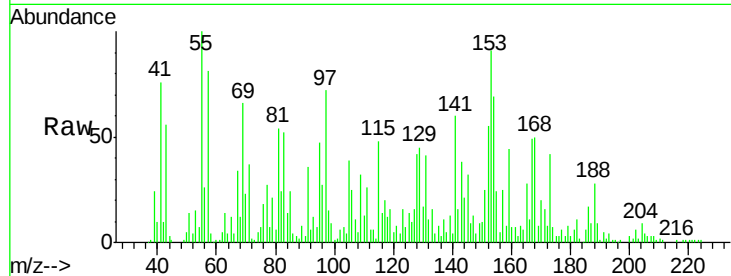
Acq: 19 Mar 2019 16:01

Instrument :

BNA\_F

ClientSampleId :

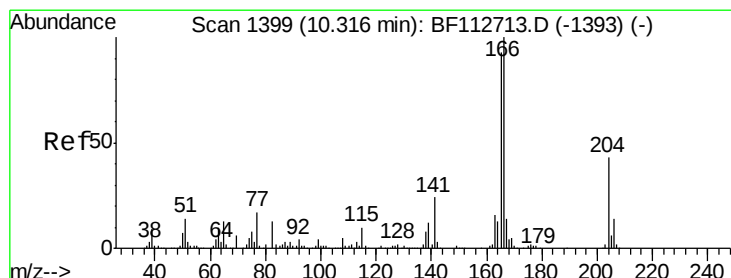
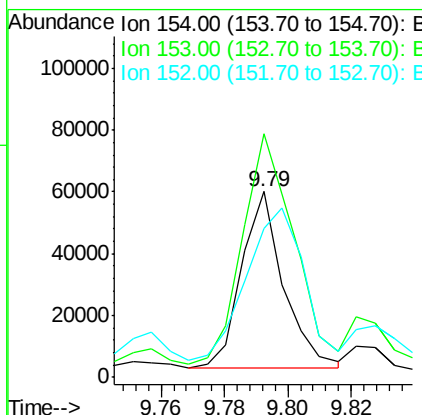
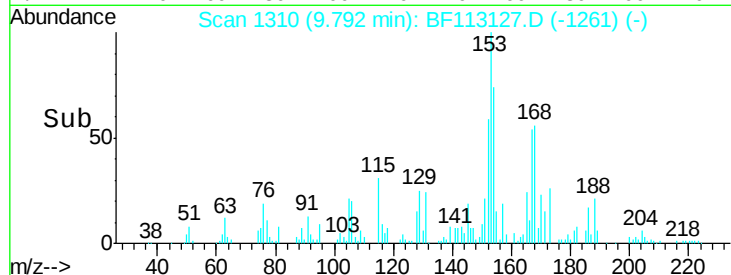
P-5-E.WALL-SOUTH



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 52584 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 131.1 | 87.8  | 131.8 |
| 152       | 80.0  | 43.0  | 64.6  |

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#58

Fluorene

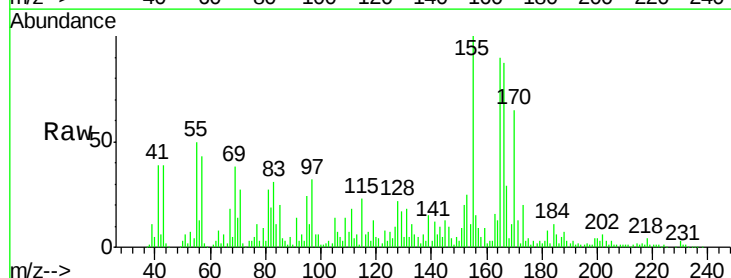
Concen: 8.175 ng m

RT: 10.30 min Scan# 1397

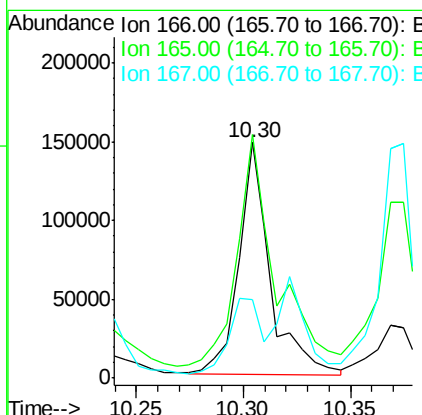
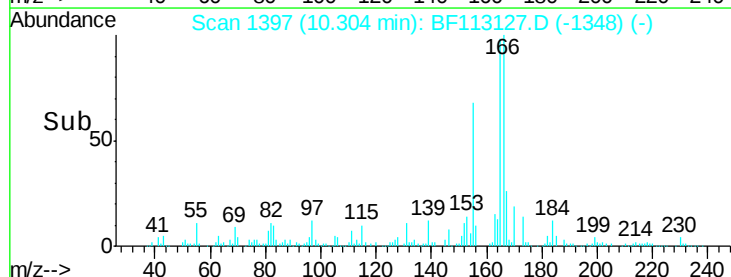
Delta R.T. -0.01 min

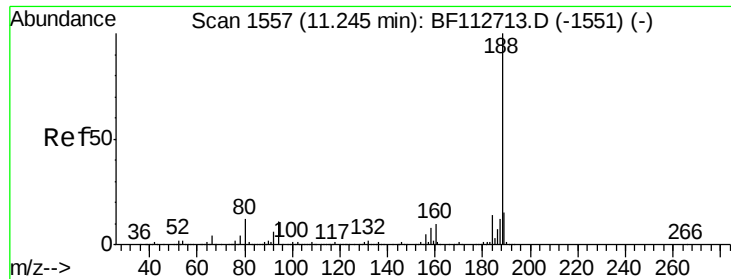
Lab File: BF113127.D

Acq: 19 Mar 2019 16:01



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 151144 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 103.3 | 74.7  | 112.1  |
| 167       | 33.1  | 11.0  | 16.6   |





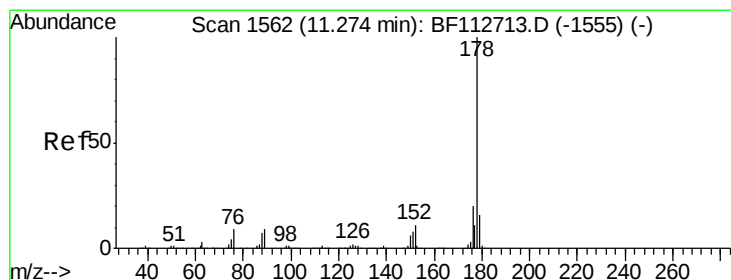
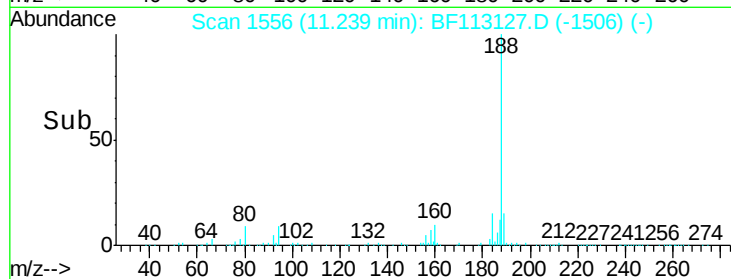
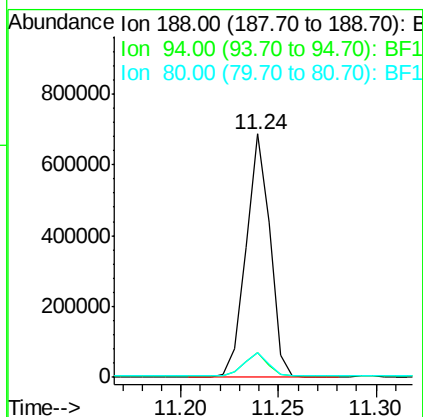
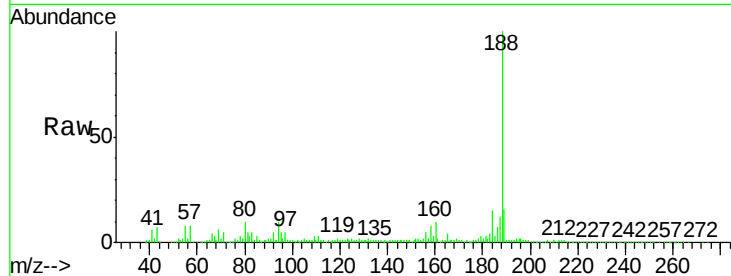
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF113127.D  
Acq: 19 Mar 2019 16:01

Instrument :  
BNA\_F  
ClientSampleId :  
P-5-E.WALL-SOUTH

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.9   | 9.0        | 13.4       |
| 80      | 10.1  | 9.2        | 13.8       |

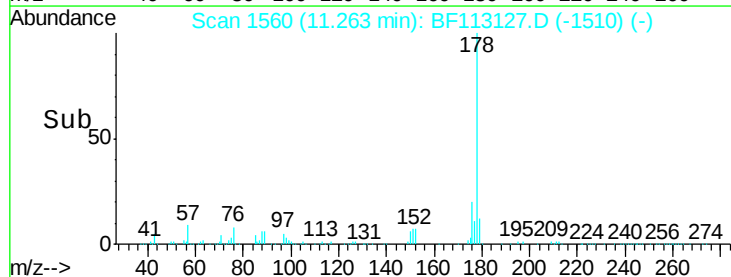
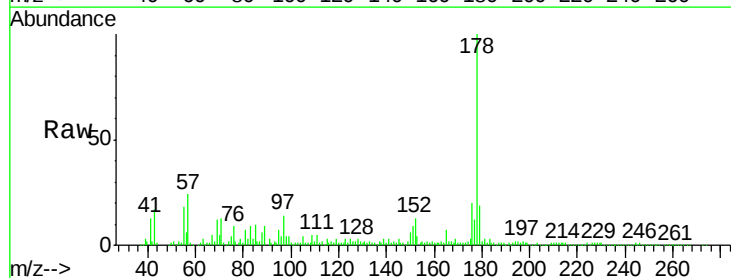
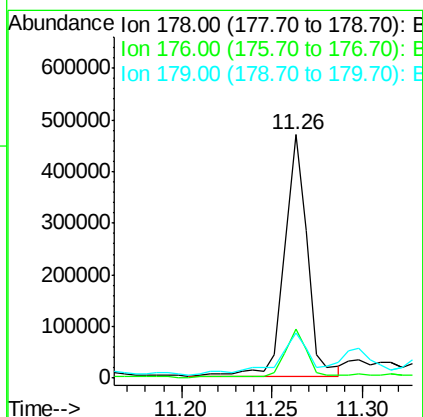
Manual Integrations  
APPROVED

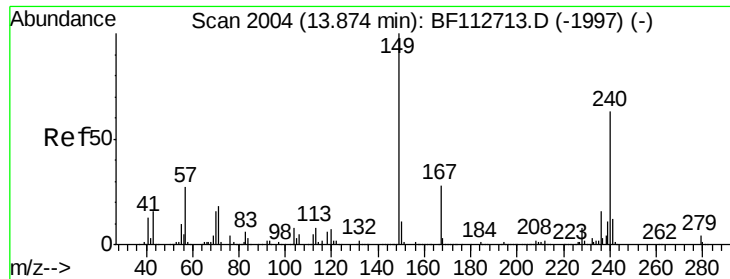
Sohil  
3/20/2019 6:51:22 PM



#71  
Phenanthrene  
Concen: 13.945 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF113127.D  
Acq: 19 Mar 2019 16:01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 20.2  | 16.3       | 24.5       |
| 179     | 18.8  | 12.7       | 19.1       |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF113127.D

Acq: 19 Mar 2019 16:01

Instrument :

BNA\_F

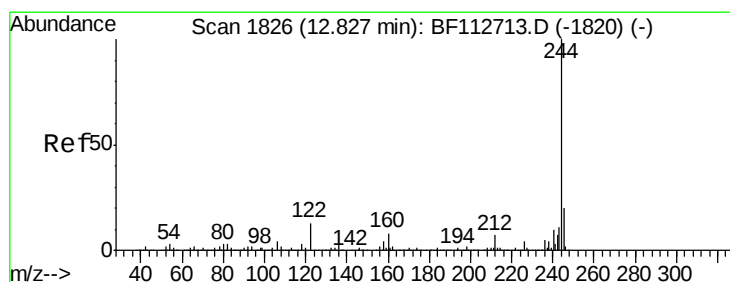
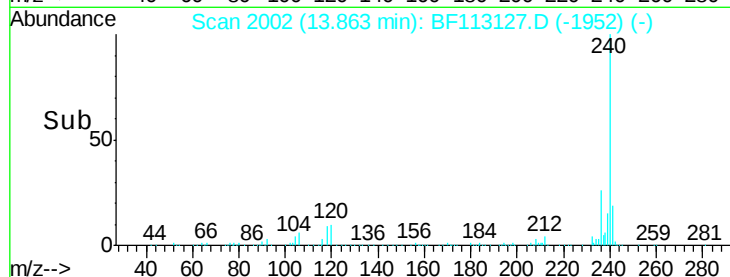
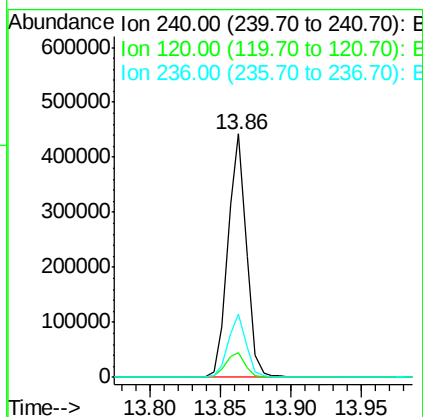
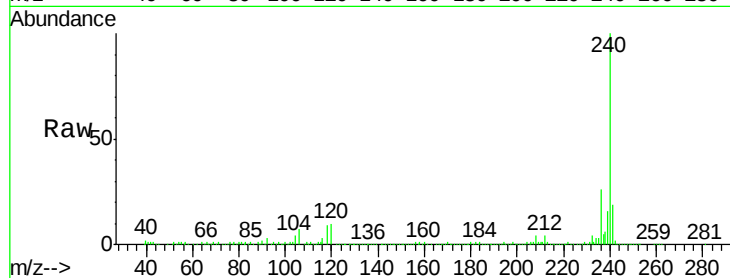
ClientSampleId :

P-5-E.WALL-SOUTH

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 402508 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 10.1 | 8.9   | 13.3   |
| 236       | 26.2 | 20.7  | 31.1   |

Manual Integrations  
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3/20/2019 6:51:22 PM



#79

Terphenyl-d14

Concen: 6.524 ng

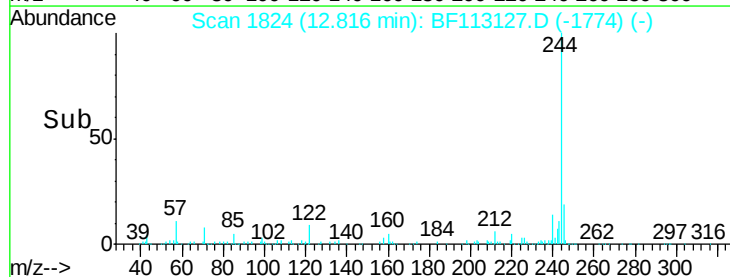
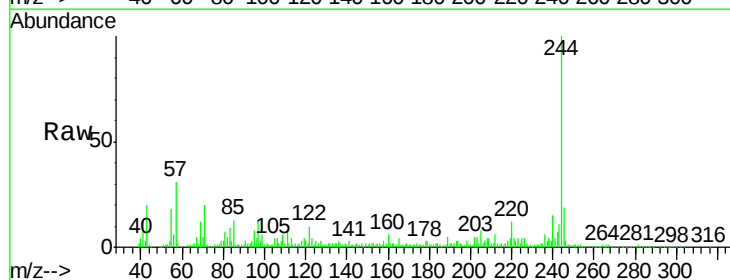
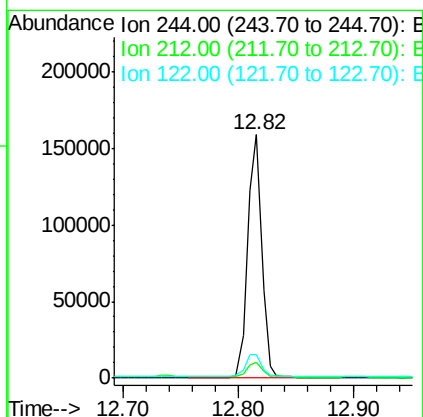
RT: 12.82 min Scan# 1824

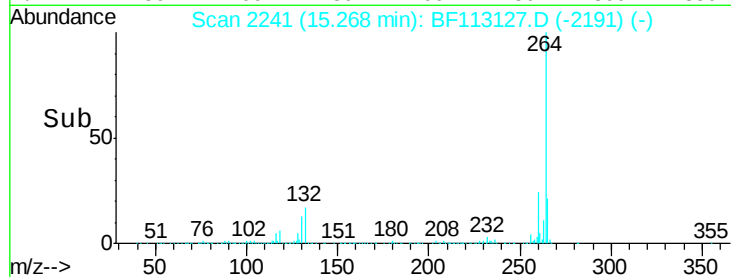
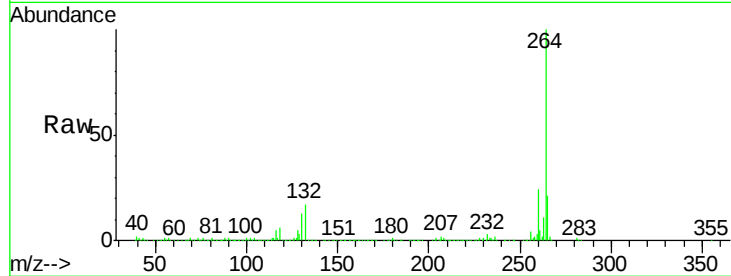
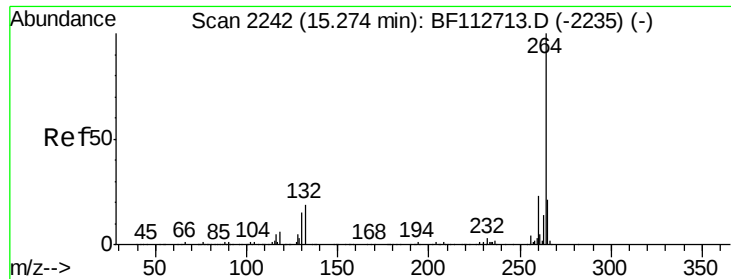
Delta R.T. -0.01 min

Lab File: BF113127.D

Acq: 19 Mar 2019 16:01

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 244 | Resp: | 135460 |
| Ion Ratio |     | Lower | Upper  |
| 244       | 100 |       |        |
| 212       | 6.3 | 5.6   | 8.4    |
| 122       | 9.9 | 10.5  | 15.7#  |





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.27 min Scan# 2241  
Delta R.T. -0.01 min  
Lab File: BF113127.D  
Acq: 19 Mar 2019 16:01

Instrument :  
BNA\_F  
ClientSampleId :  
P-5-E.WALL-SOUTH

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 18.7  | 28.1  |
| 265     | 21.2  | 17.2  | 25.8  |

Manual Integrations  
APPROVED

Sohil  
3/20/2019 6:51:22 PM

