

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112018\  
 Data File : BF110914.D  
 Acq On : 21 Nov 2018 1:41  
 Operator : JU/SJ  
 Sample : J6003-07DL2 25X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NON-UST-03R-CDL2

Manual Integrations  
 APPROVED

Sohil  
 11/21/2018 3:18:22 PM

Quant Time: Nov 21 06:07:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.94  | 152  | 55567    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.22  | 136  | 229227   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.99  | 164  | 93068    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.48 | 188  | 145209   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.13 | 240  | 129200   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.67 | 264  | 86076    | 20.00  | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.59  | 112  | 7684     | 2.25   | ng    | 0.03     |
| 7) Phenol-d6                | 6.59  | 99   | 15226    | 3.48   | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 6581m    | 1.65   | ng    | 0.01     |
| 42) 2,4,6-Tribromophenol    | 10.79 | 330  | 2020     | 2.15   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.30  | 172  | 20311    | 3.12   | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.06 | 244  | 16732    | 2.43   | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 37) 2-Methylnaphthalene     | 8.94  | 142  | 280566   | 39.772 | ng    | 99       |
| 38) 1-Methylnaphthalene     | 9.04  | 142  | 168737m  | 24.872 | ng    |          |
| 58) Fluorene                | 10.54 | 166  | 18806    | 2.940  | ng    | # 65     |
| 71) Phenanthrene            | 11.50 | 178  | 51133    | 6.573  | ng    | # 97     |

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

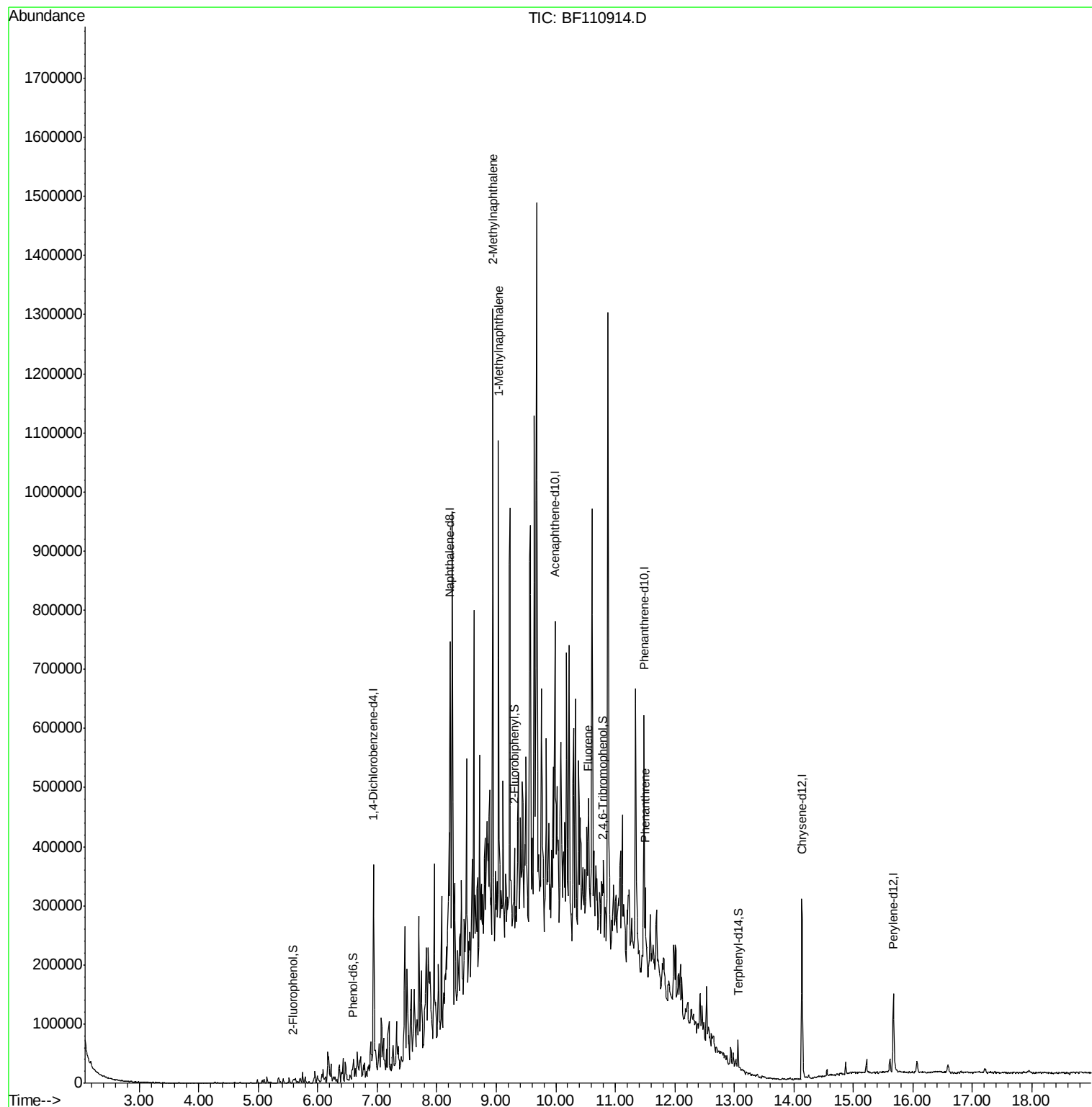
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112018\  
Data File : BF110914.D  
Acq On : 21 Nov 2018 1:41  
Operator : JU/SJ  
Sample : J6003-07DL2 25X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

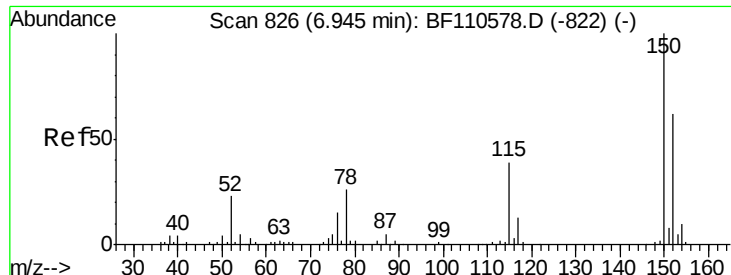
Instrument :  
BNA\_F  
ClientSampleId :  
NON-UST-03R-CDL2

Manual Integrations  
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Quant Time: Nov 21 06:07:49 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 12:43:10 2018  
Response via : Initial Calibration





#1

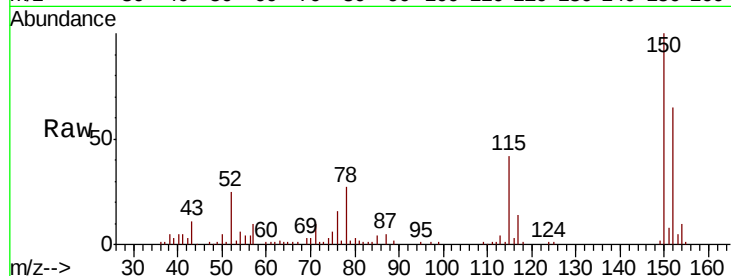
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.94 min Scan# 825  
Delta R.T. -0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
NON-UST-03R-CDL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.9 | 122.7 | 184.1 |
| 115     | 64.1  | 49.1  | 73.7  |

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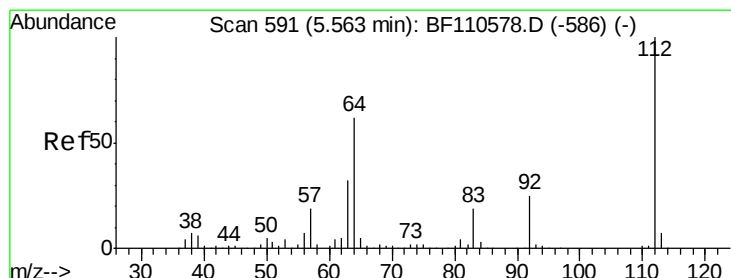
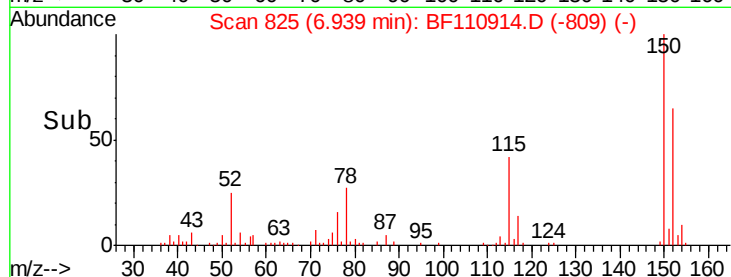
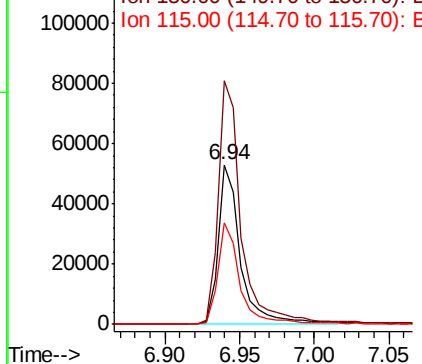


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

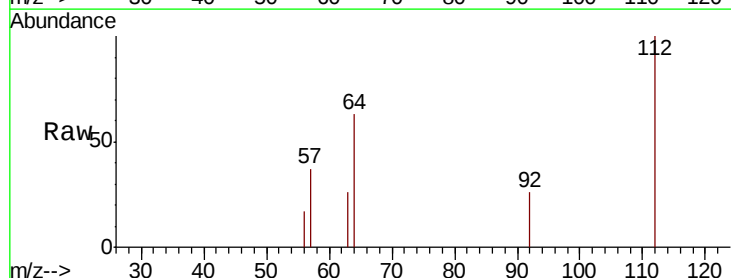
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 2.246 ng  
RT: 5.59 min Scan# 596  
Delta R.T. 0.03 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.2  | 44.1  | 66.1  |
| 63      | 26.2  | 23.7  | 35.5  |

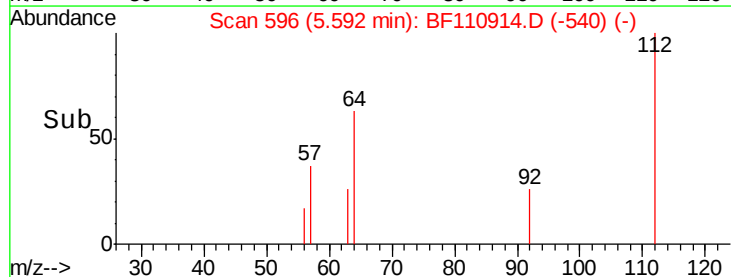
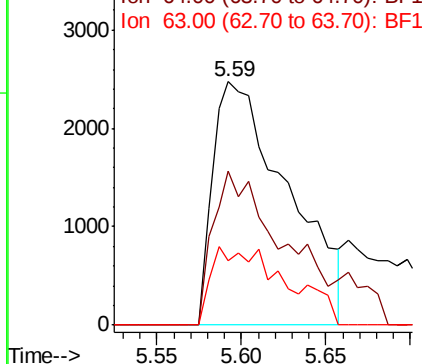


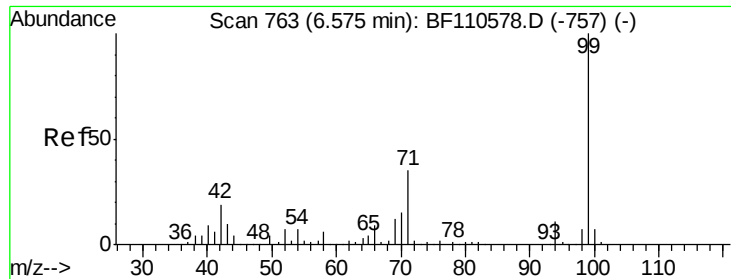
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 3.481 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.02 min

Lab File: BF110914.D

Acq: 21 Nov 2018 1:41

Instrument :

BNA\_F

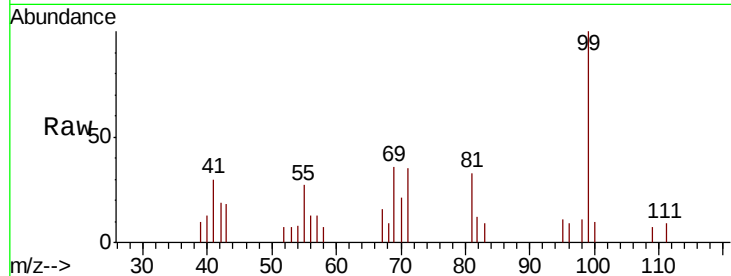
ClientSampleId :

NON-UST-03R-CDL2

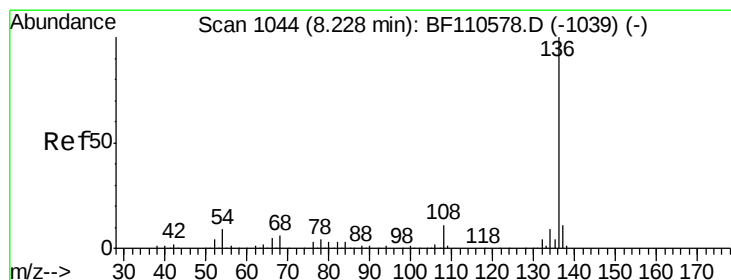
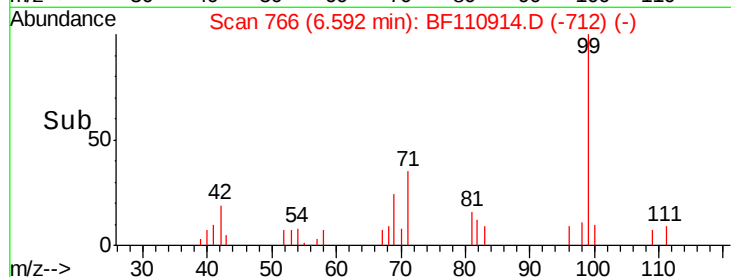
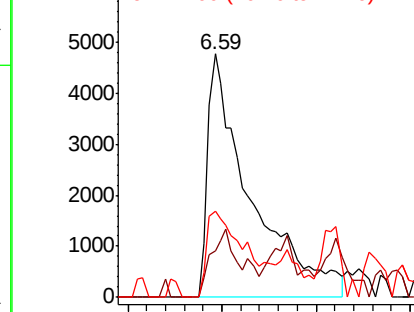
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 15226 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 19.1  | 15.8  | 23.6  |
| 71        | 35.4  | 28.0  | 42.0  |

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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: 8.22 min Scan# 1043

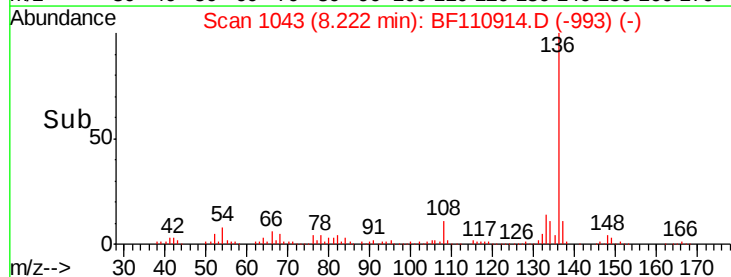
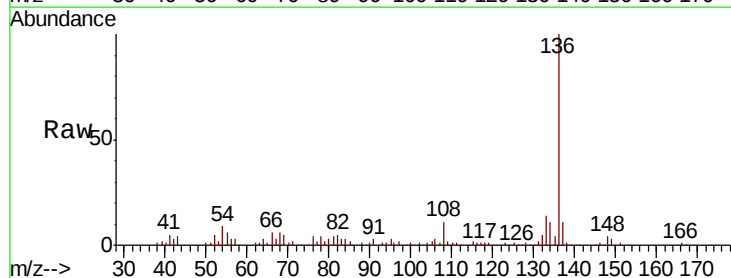
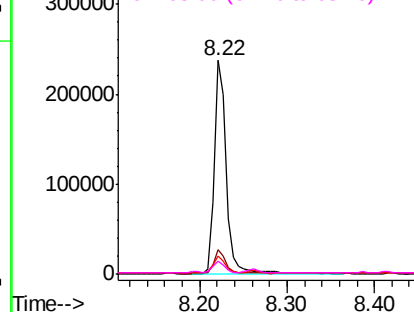
Delta R.T. -0.01 min

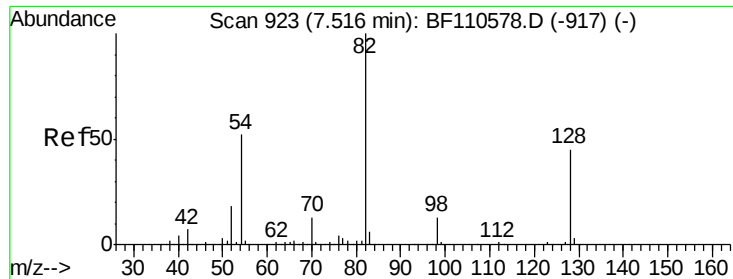
Lab File: BF110914.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 229227 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.8   | 13.2   |
| 54        | 8.7   | 5.4   | 8.2#   |
| 68        | 5.7   | 4.2   | 6.2    |

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





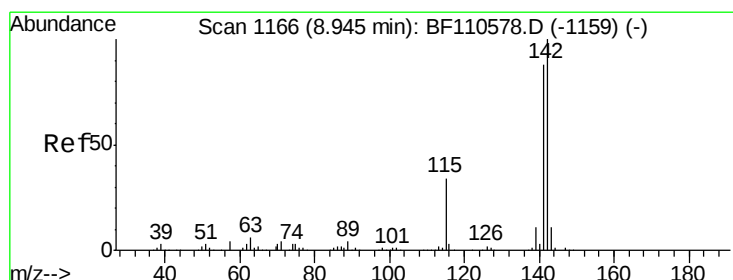
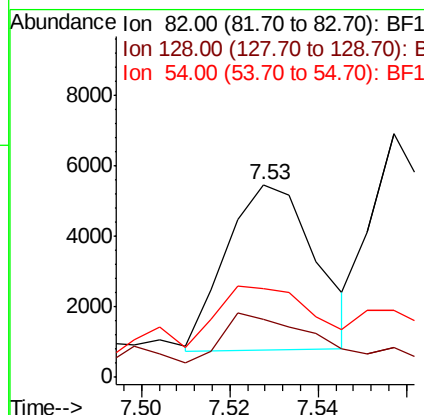
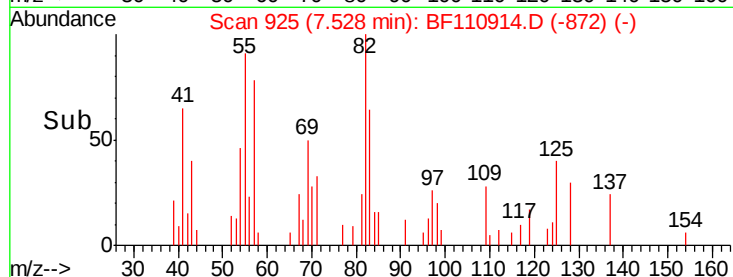
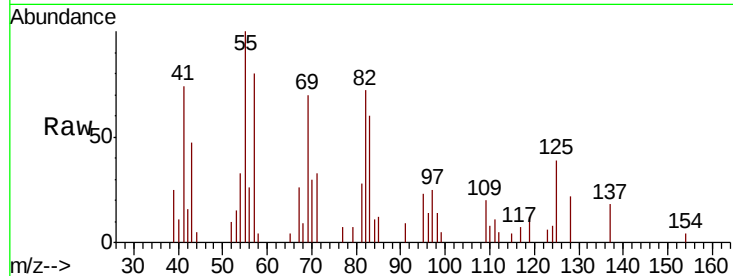
#23  
Nitrobenzene-d5  
Concen: 1.653 ng/ml  
RT: 7.53 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
NON-UST-03R-CDL2

| Tot Ion   | 82   | Resp  | 6581  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 82        | 100  |       |       |
| 128       | 30.0 | 34.2  | 51.2# |
| 54        | 45.9 | 38.6  | 58.0  |

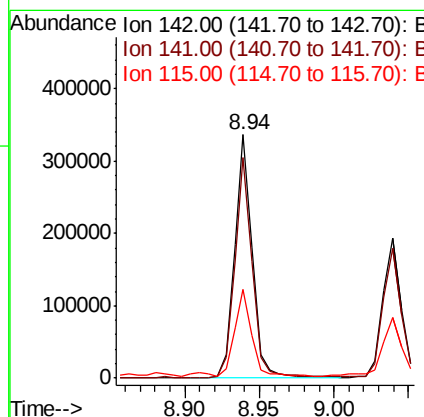
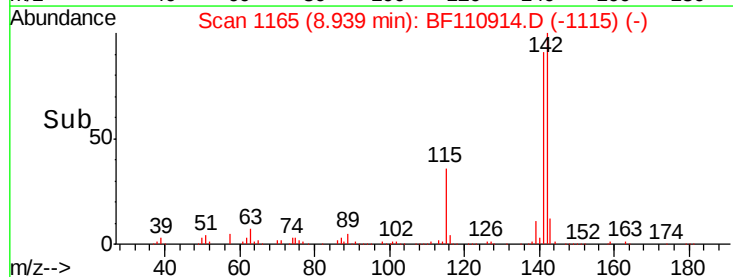
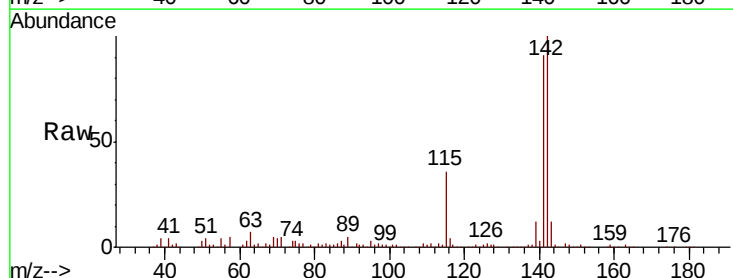
Manual Integrations  
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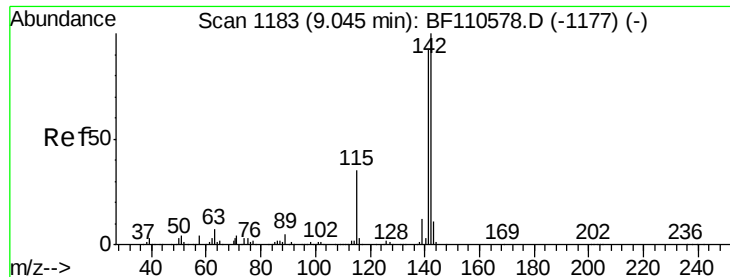
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#37  
2-Methylnaphthalene  
Concen: 39.772 ng  
RT: 8.94 min Scan# 1165  
Delta R.T. -0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

| Tgt Ion   | 142  | Resp  | 280566 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 142       | 100  |       |        |
| 141       | 90.8 | 71.4  | 107.2  |
| 115       | 36.3 | 28.7  | 43.1   |





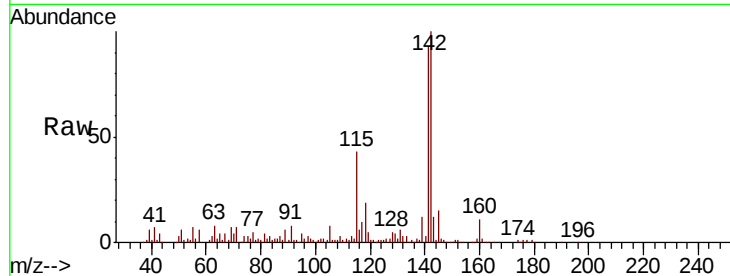
#38  
1-Methylnaphthalene  
Concen: 24.872 ng  
RT: 9.04 min Scan# 1182  
Delta R.T. -0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
NON-UST-03R-CDL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 93.2  | 74.2  | 111.4 |
| 116     | 6.0   | 2.6   | 4.0   |

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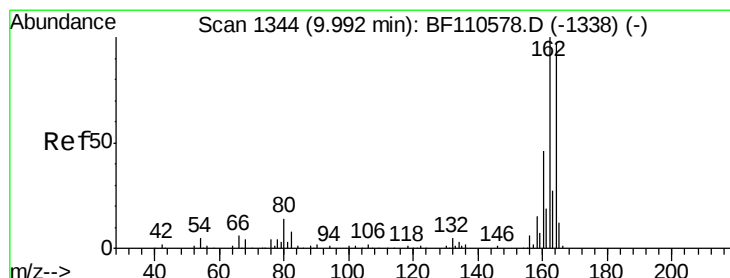
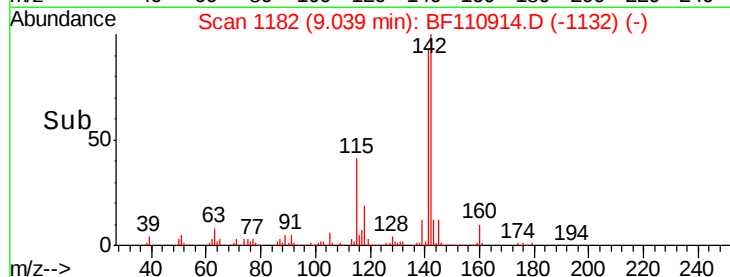
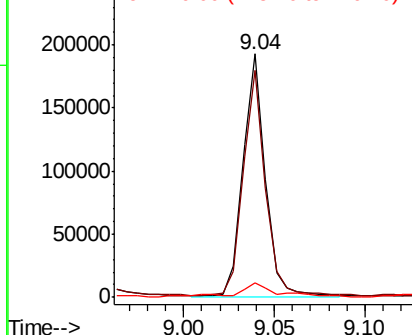


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

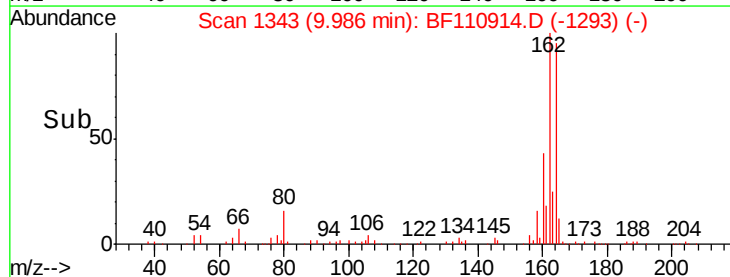
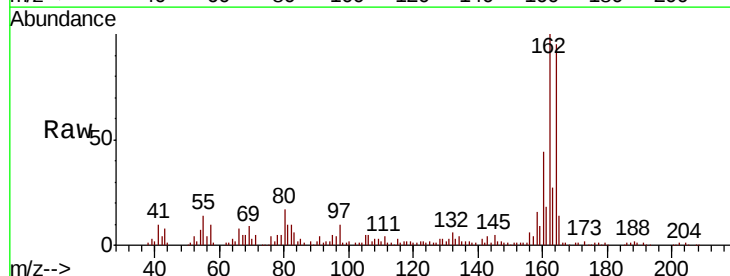
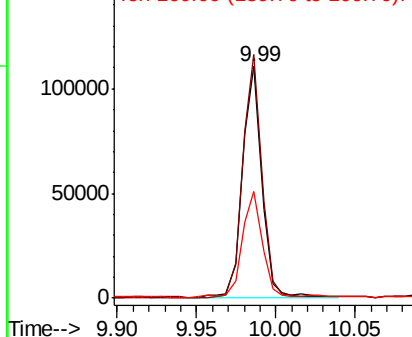
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.0 | 83.0  | 124.6 |
| 160     | 45.9  | 37.0  | 55.6  |

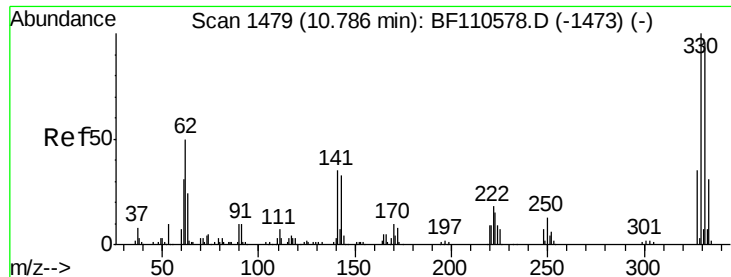
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





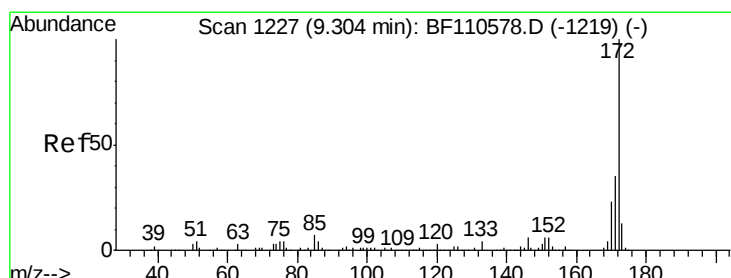
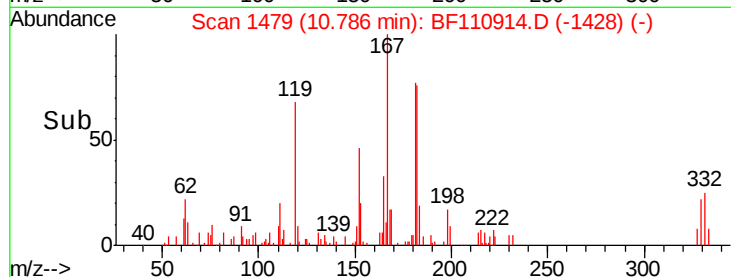
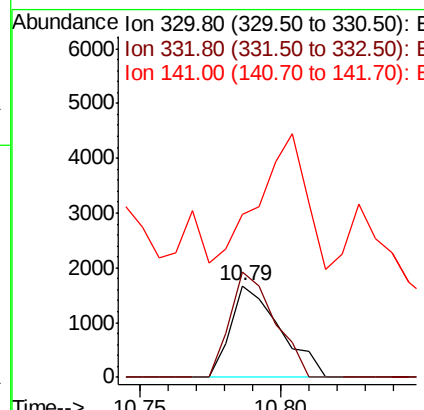
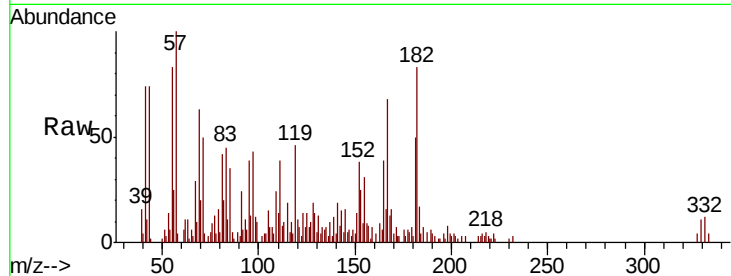
#42  
 2,4,6-Tribromophenol  
 Concen: 2.154 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. 0.00 min  
 Lab File: BF110914.D  
 Acq: 21 Nov 2018 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NON-UST-03R-CDL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 104.7 | 77.1  | 115.7 |
| 141     | 141.9 | 27.0  | 40.4  |

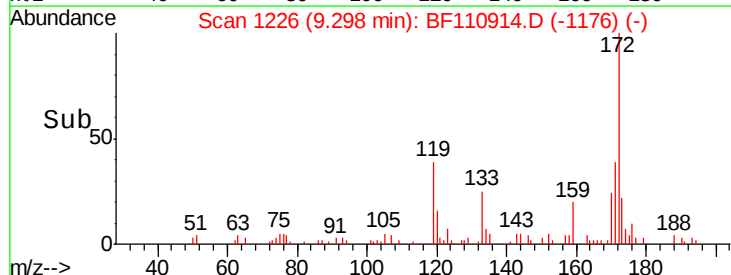
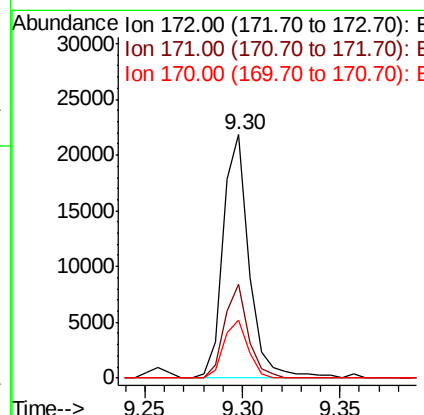
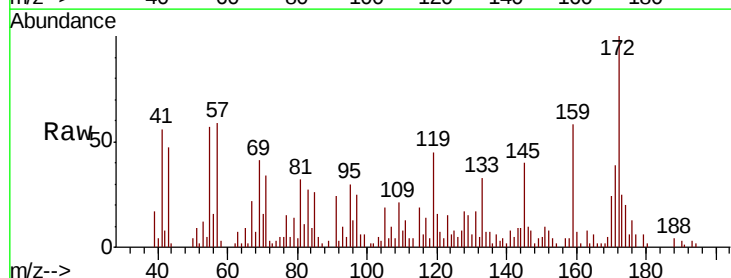
Manual Integrations  
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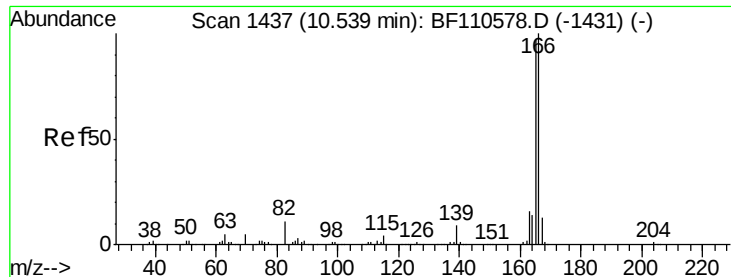
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 11/21/2018 3:18:22 PM



#45  
 2-Fluorobiphenyl  
 Concen: 3.117 ng  
 RT: 9.30 min Scan# 1226  
 Delta R.T. -0.01 min  
 Lab File: BF110914.D  
 Acq: 21 Nov 2018 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.7  | 28.6  | 43.0  |
| 170     | 23.9  | 19.7  | 29.5  |





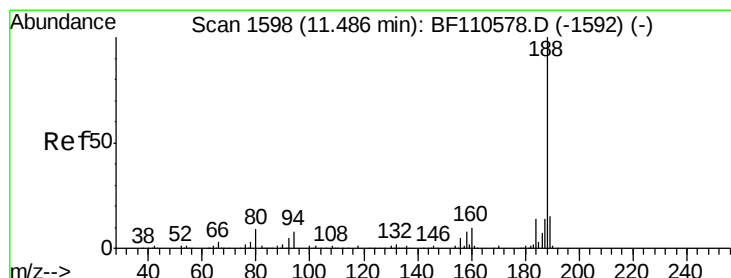
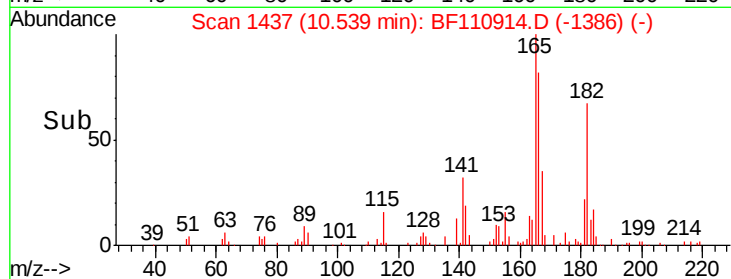
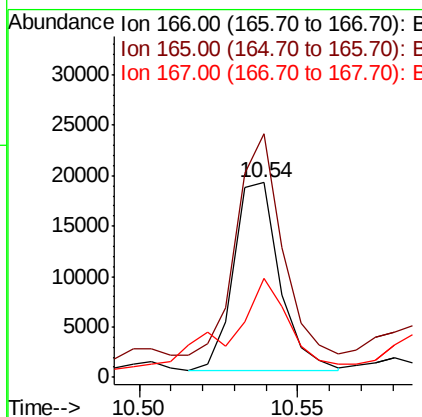
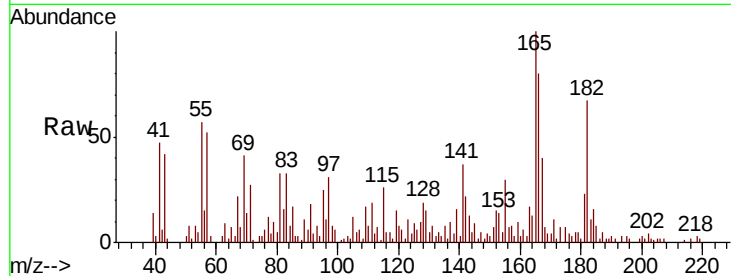
#58  
 Fluorene  
 Concen: 2.940 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. 0.00 min  
 Lab File: BF110914.D  
 Acq: 21 Nov 2018 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NON-UST-03R-CDL2

| Tot Ion | Ion   | Ratio | Resp   | Lower | Upper |
|---------|-------|-------|--------|-------|-------|
| 166     | 100   |       |        |       |       |
| 165     | 125.0 | 78.6  | 117.8# |       |       |
| 167     | 50.6  | 10.8  | 16.2#  |       |       |

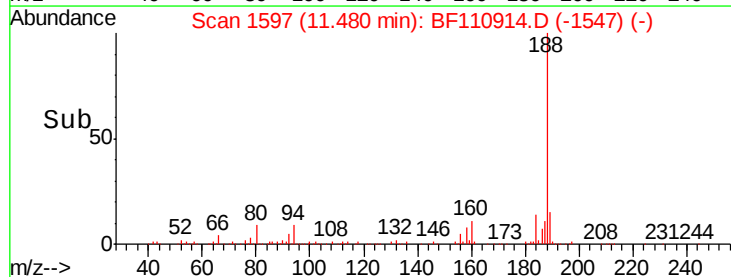
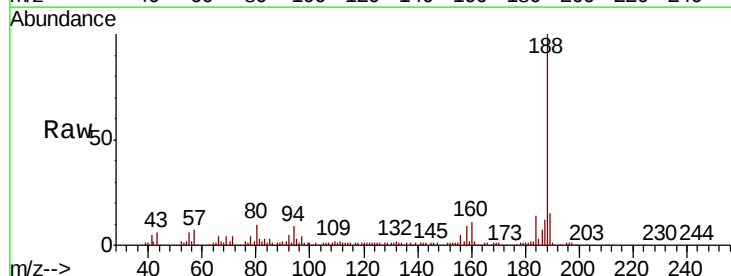
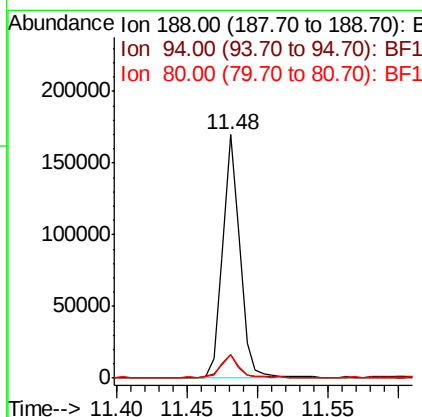
Manual Integrations  
 APPROVED

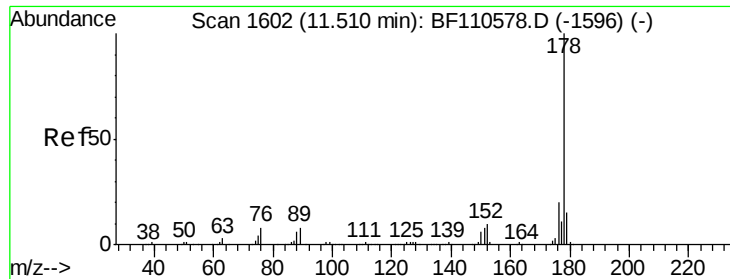
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#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. -0.01 min  
 Lab File: BF110914.D  
 Acq: 21 Nov 2018 1:41

| Tgt Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 188     | 100 |       |      |       |       |
| 94      | 9.5 | 7.2   | 10.8 |       |       |
| 80      | 9.7 | 7.9   | 11.9 |       |       |





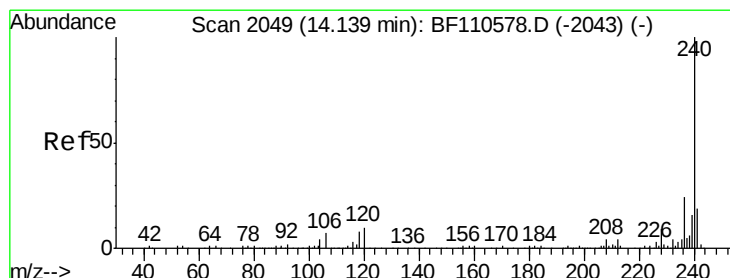
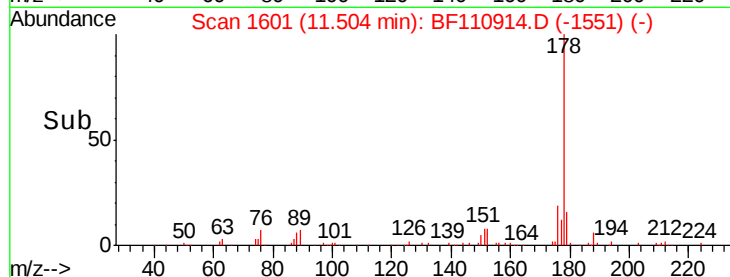
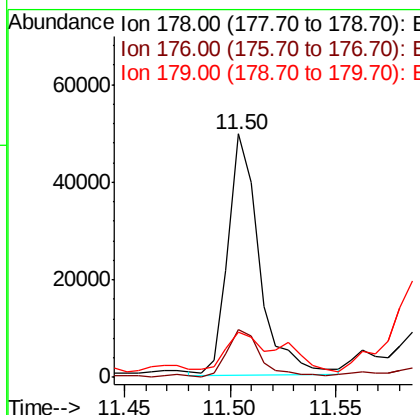
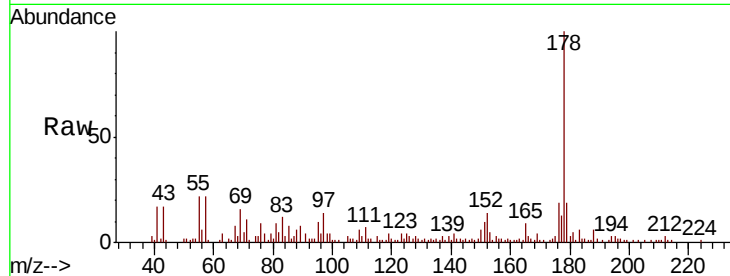
#71  
Phenanthrene  
Concen: 6.573 ng  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
NON-UST-03R-CDL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.5  | 23.3  |
| 179     | 18.8  | 12.5  | 18.7# |

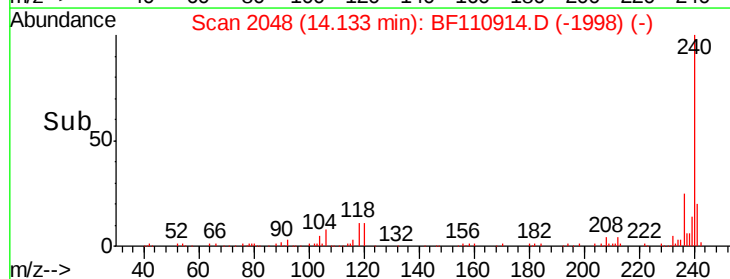
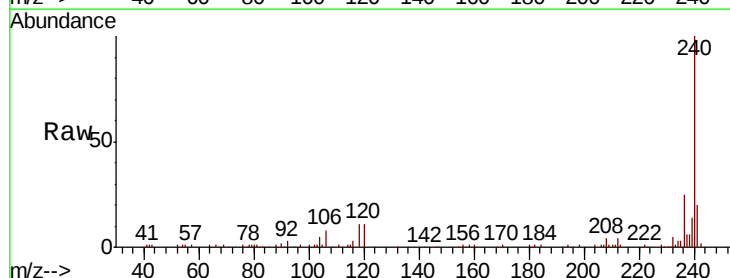
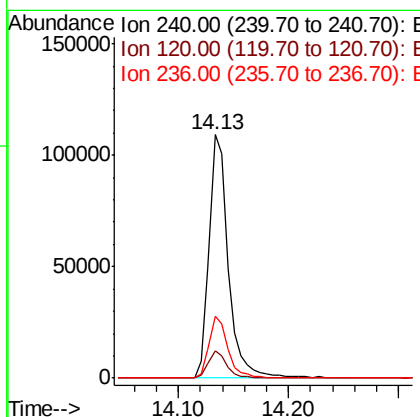
Manual Integrations  
APPROVED

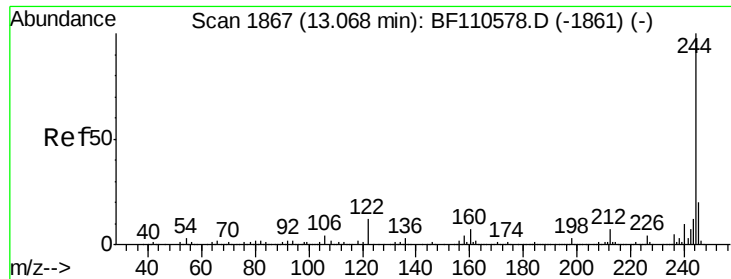
Sohil  
11/21/2018 3:18:22 PM



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.13 min Scan# 2048  
Delta R.T. -0.01 min  
Lab File: BF110914.D  
Acq: 21 Nov 2018 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.4  | 8.3   | 12.5  |
| 236     | 25.3  | 21.2  | 31.8  |





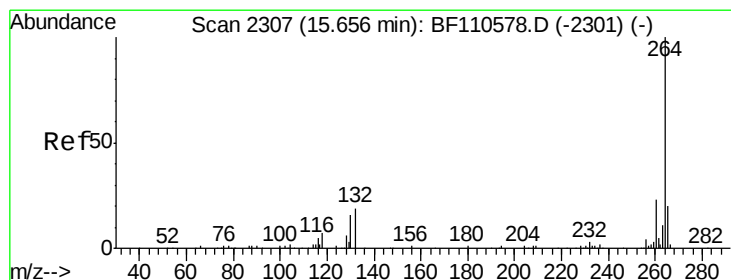
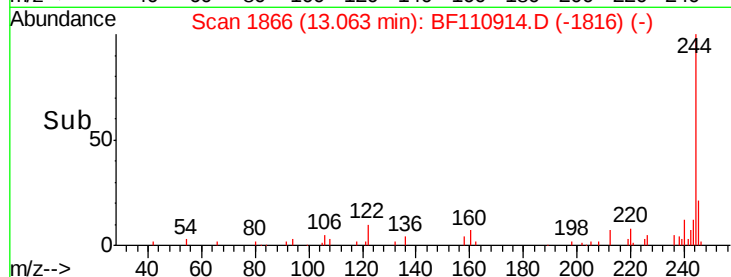
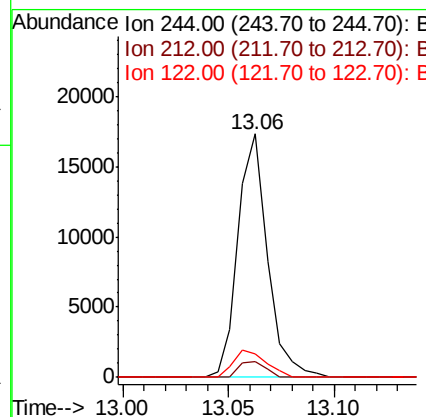
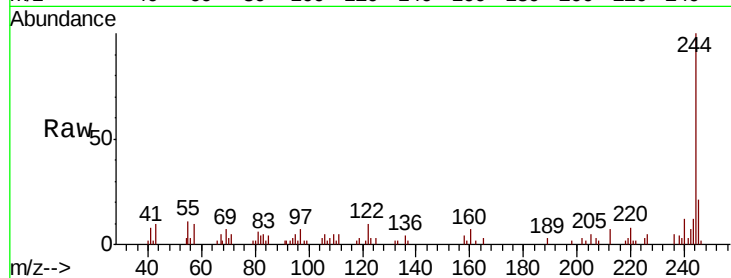
#79  
 Terphenyl-d14  
 Concen: 2.425 ng  
 RT: 13.06 min Scan# 1866  
 Delta R.T. -0.01 min  
 Lab File: BF110914.D  
 Acq: 21 Nov 2018 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NON-UST-03R-CDL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.8   | 8.8   |
| 122     | 9.8   | 8.7   | 13.1  |

Manual Integrations  
 APPROVED

Sohil  
 11/21/2018 3:18:22 PM



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2310  
 Delta R.T. 0.02 min  
 Lab File: BF110914.D  
 Acq: 21 Nov 2018 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.5  | 18.7  | 28.1  |
| 265     | 20.6  | 16.7  | 25.1  |

