

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
 Data File : BF111545.D  
 Acq On : 17 Dec 2018 18:08  
 Operator : JU/SJ  
 Sample : J6438-05  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-1

Manual Integrations  
 APPROVED

Sohil  
 12/18/2018 12:49:17 PM

Quant Time: Dec 18 06:07:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 125213   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.07  | 136  | 500461   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.83  | 164  | 341013   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.31 | 188  | 553498   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.94 | 240  | 358313   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.39 | 264  | 376279   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 598756   | 79.57  | ng    | 0.01     |
| 7) Phenol-d6                | 6.45  | 99   | 398402   | 39.80  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 772956   | 91.97  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 369790   | 121.05 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 1448158  | 65.60  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.90 | 244  | 1457033  | 95.49  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 9) Benzaldehyde             | 6.33  | 77   | 23384    | 3.852  | ng    | 97       |
| 10) Phenol                  | 6.46  | 94   | 50724    | 4.549  | ng    | 96       |
| 15) Benzyl Alcohol          | 6.94  | 79   | 285932   | 37.545 | ng    | 93       |
| 20) 3+4-Methylphenols       | 7.22  | 107  | 64913    | 7.152  | ng    | # 58     |
| 27) 2,4-Dimethylphenol      | 7.75  | 122  | 24446    | 3.793  | ng    | 97       |
| 32) Benzoic acid            | 7.96  | 122  | 435076m  | 78.112 | ng    |          |
| 50) Dimethylphthalate       | 9.54  | 163  | 84146    | 3.426  | ng    | # 93     |
| 66) n-Nitrosodiphenylamine  | 10.48 | 169  | 62954    | 3.298  | ng    | 94       |

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

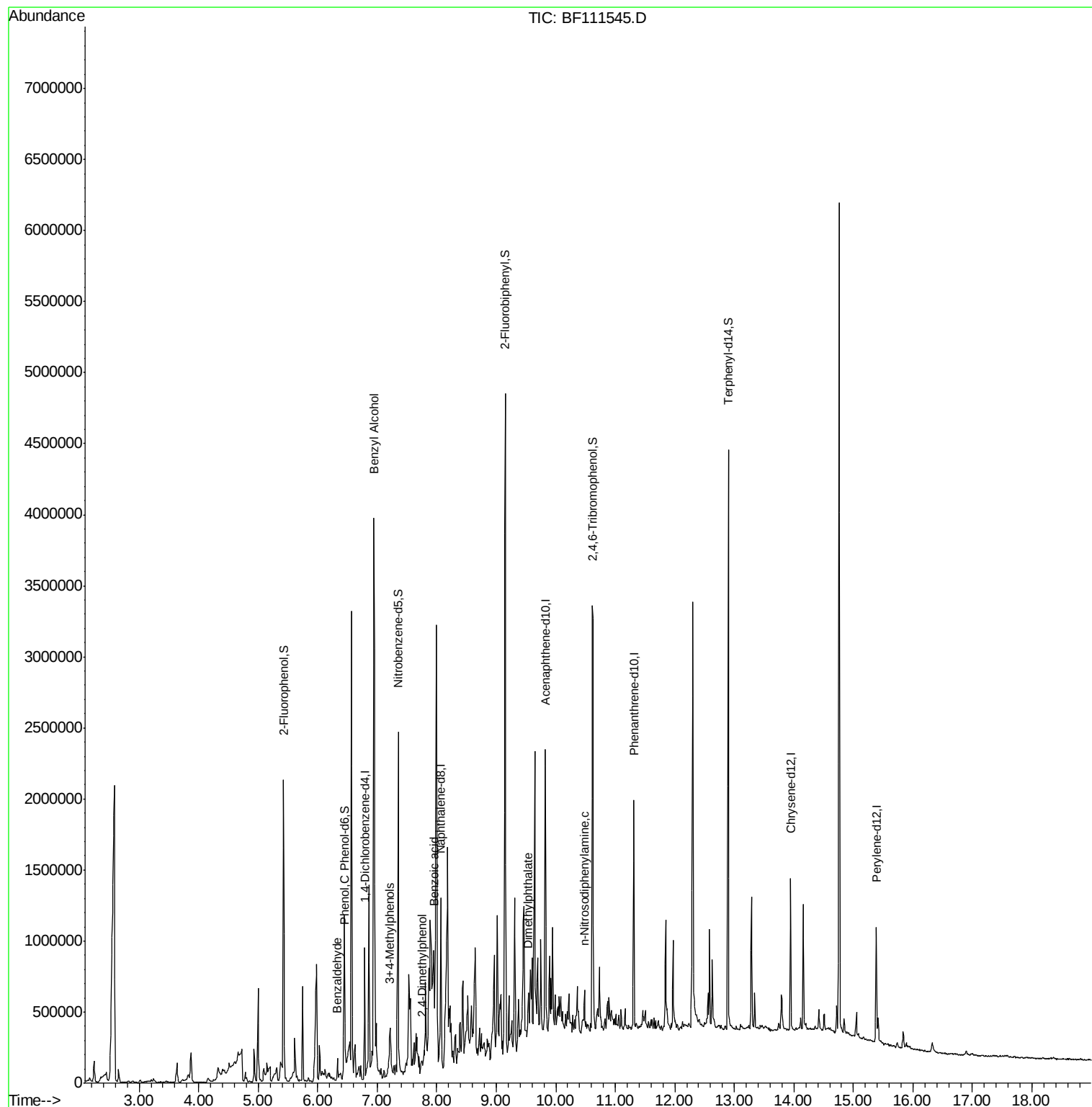
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
Data File : BF111545.D  
Acq On : 17 Dec 2018 18:08  
Operator : JU/SJ  
Sample : J6438-05  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

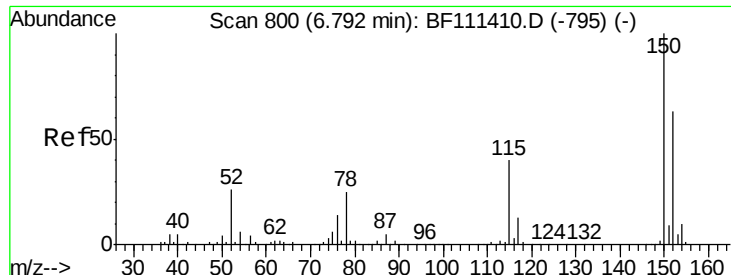
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1

Manual Integrations  
APPROVED

Sohil  
12/18/2018 12:49:17 PM

Quant Time: Dec 18 06:07:04 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 14 13:26:17 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.79 min Scan# 799

Delta R.T. -0.01 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

Instrument :

BNA\_F

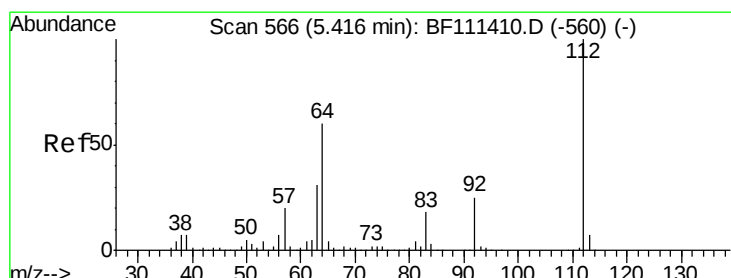
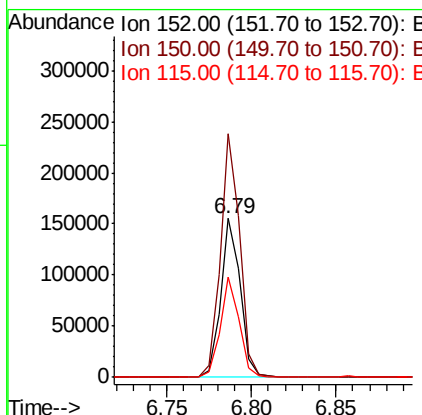
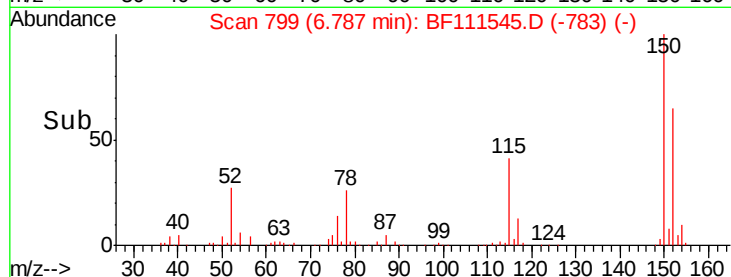
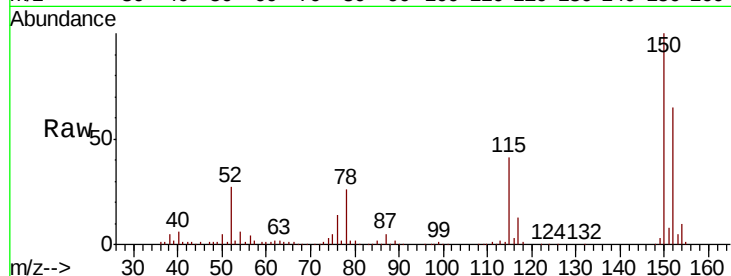
ClientSampleId :

COMP-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 125213 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 153.3 | 126.6 | 189.8  |
| 115       | 62.9  | 50.7  | 76.1   |

Manual Integrations  
APPROVED

Sohil  
12/18/2018 12:49:17 PM



#5

2-Fluorophenol

Concen: 79.574 ng

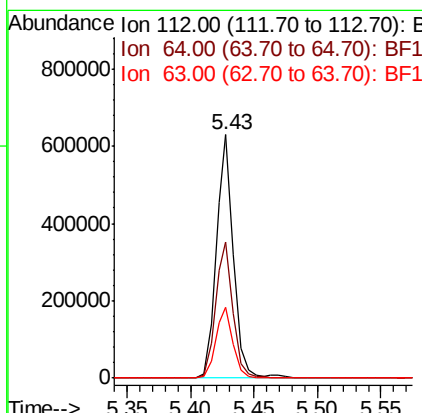
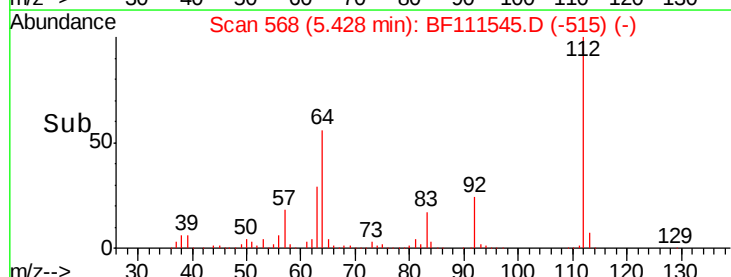
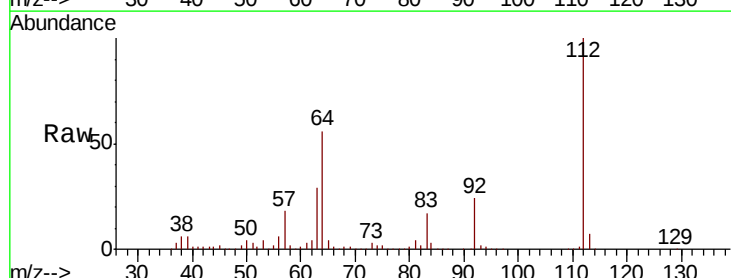
RT: 5.43 min Scan# 568

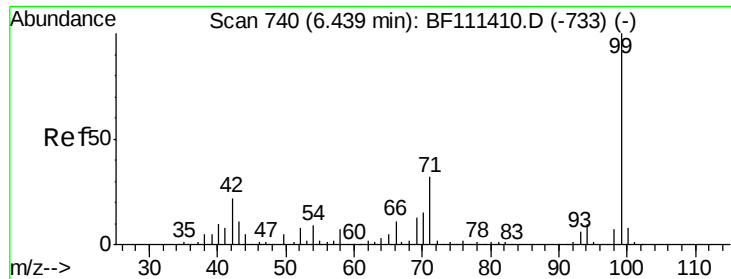
Delta R.T. 0.01 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 598756 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 55.9  | 51.8  | 77.6   |
| 63        | 29.1  | 26.8  | 40.2   |





#7

Phenol-d6

Concen: 39.805 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.01 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

Instrument :

BNA\_F

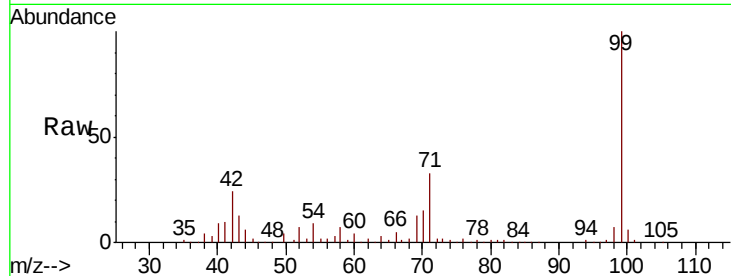
ClientSampled :

COMP-1

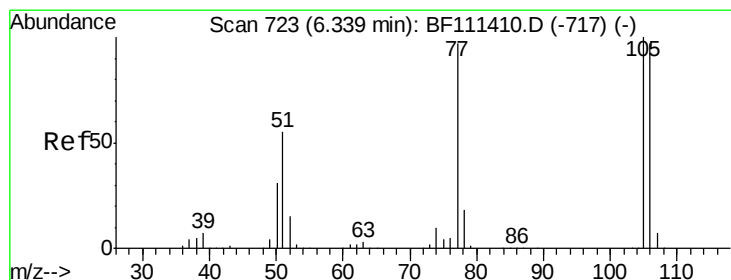
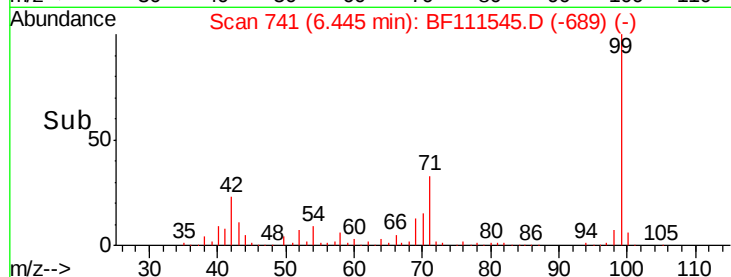
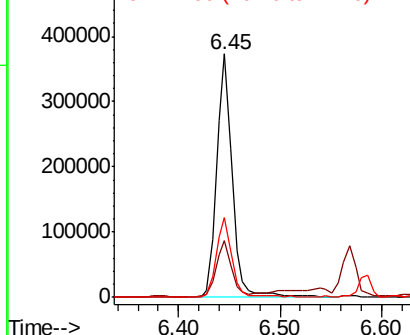
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 398402 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 23.5  | 17.4  | 26.0   |
| 71        | 33.0  | 26.1  | 39.1   |

Manual Integrations  
APPROVED

Sohil  
12/18/2018 12:49:17 PM



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



#9

Benzaldehyde

Concen: 3.852 ng

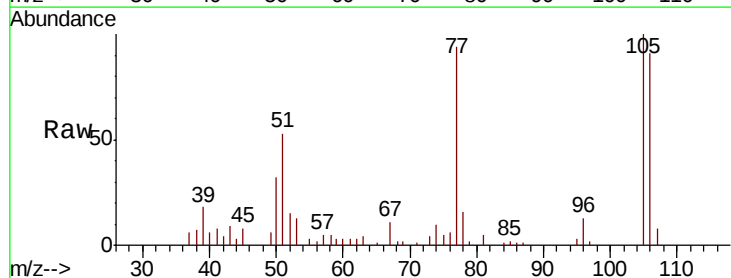
RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

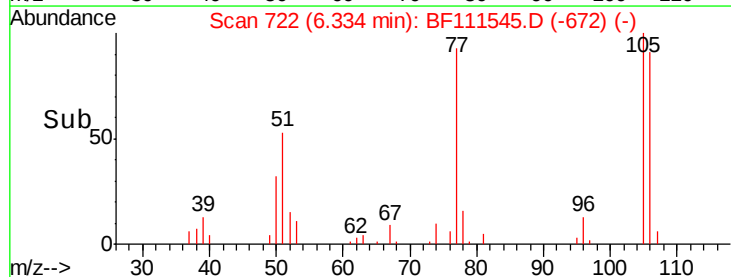
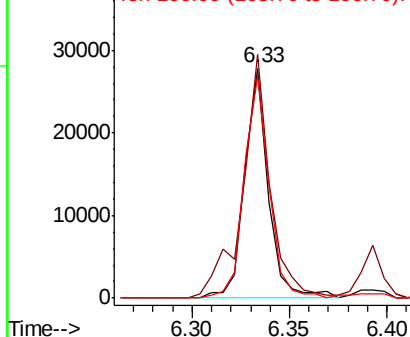
Lab File: BF111545.D

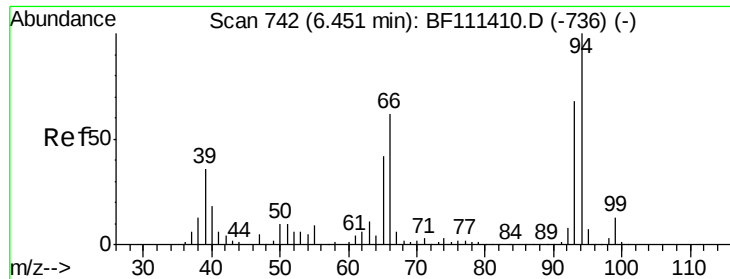
Acq: 17 Dec 2018 18:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 23384 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 105       | 105.9 | 81.4  | 121.4 |
| 106       | 96.5  | 77.9  | 117.9 |



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 4.549 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.01 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

Instrument :

BNA\_F

ClientSampled :

COMP-1

Tot Ion: 94 Resp: 50724

Ion Ratio Lower Upper

94 100

65 29.8 11.7 51.7

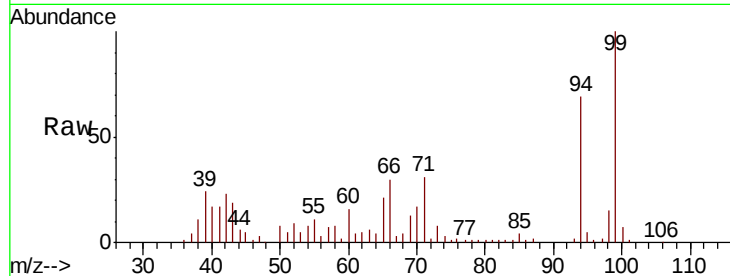
66 44.1 21.0 61.0

Manual Integrations

APPROVED

Sohil

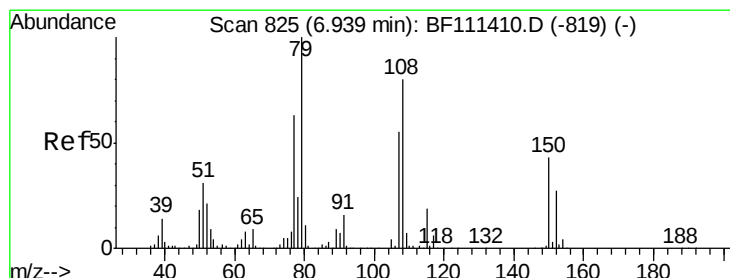
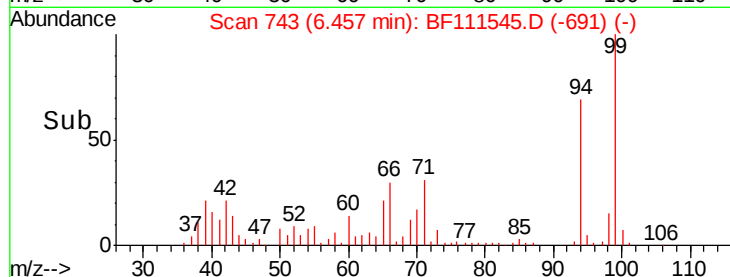
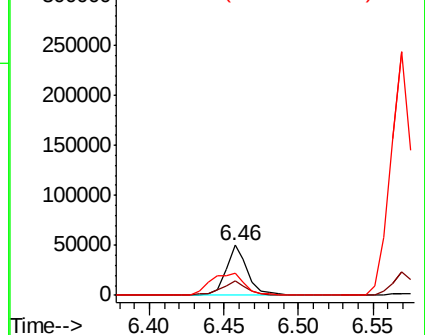
12/18/2018 12:49:17 PM



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#15

Benzyl Alcohol

Concen: 37.545 ng

RT: 6.94 min Scan# 825

Delta R.T. 0.00 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

Tgt Ion: 79 Resp: 285932

Ion Ratio Lower Upper

79 100

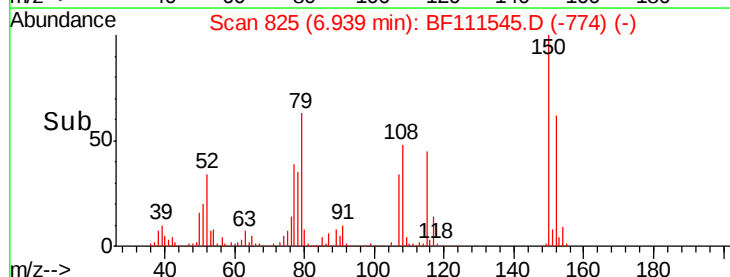
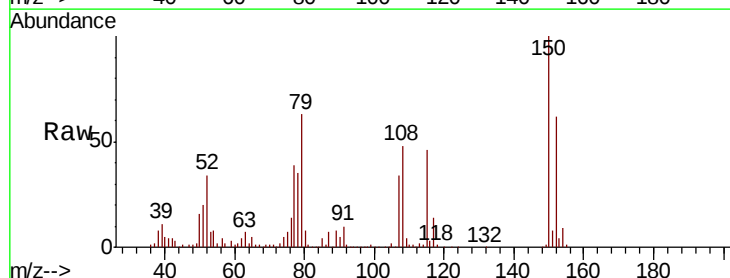
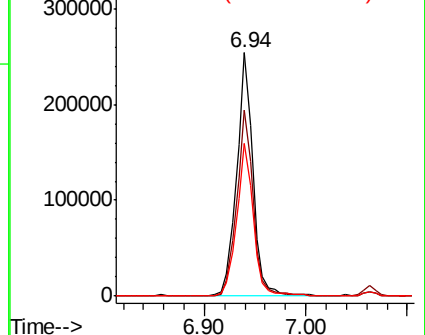
108 76.4 69.4 104.2

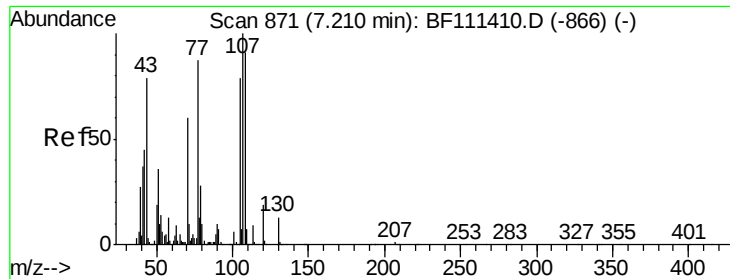
77 62.5 49.7 74.5

Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1





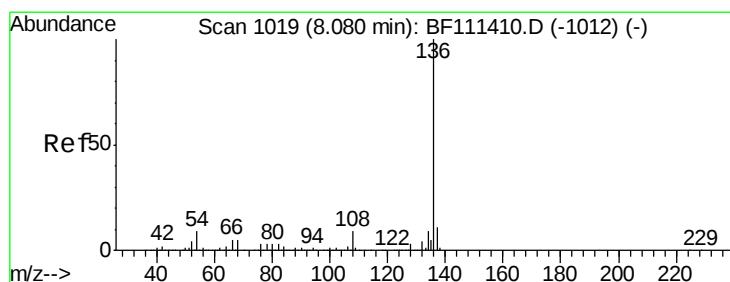
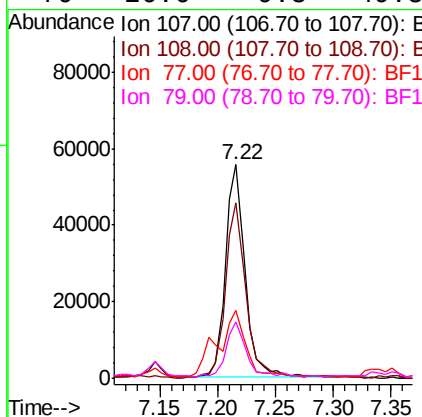
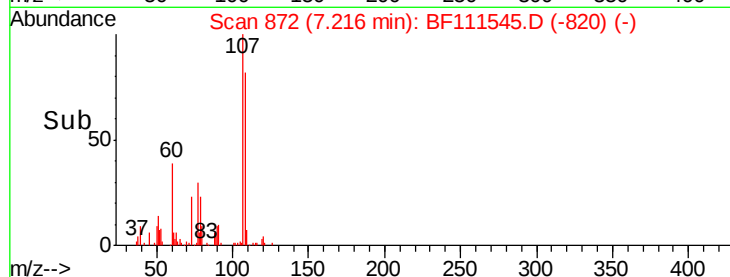
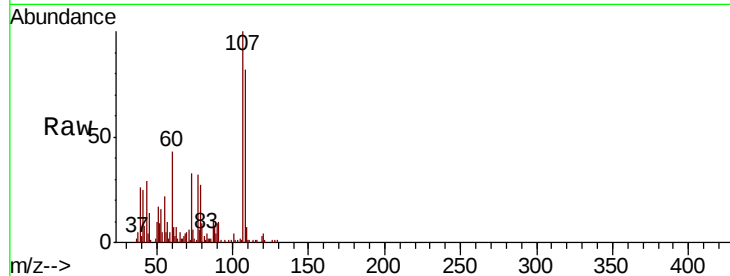
#20  
3+4-Methylphenols  
Concen: 7.152 ng  
RT: 7.22 min Scan# 872  
Delta R.T. 0.01 min  
Lab File: BF111545.D  
Acq: 17 Dec 2018 18:08

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 82.1  | 72.1  | 112.1  |
| 77      | 31.8  | 94.1  | 134.1# |
| 79      | 26.6  | 9.8   | 49.8   |

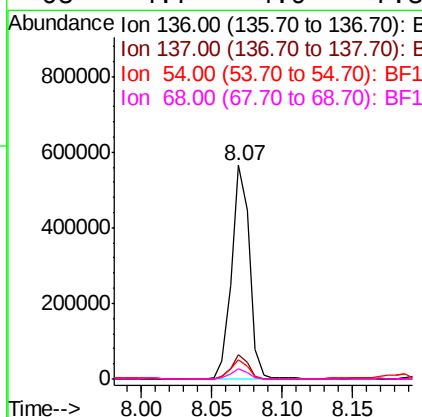
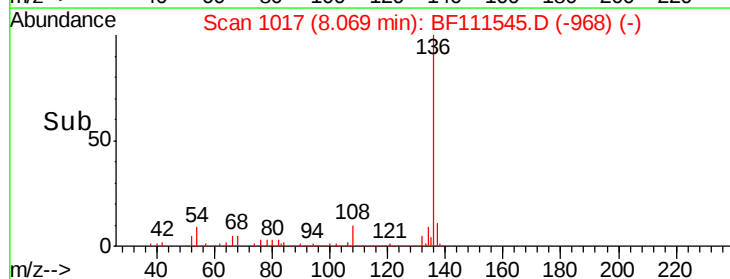
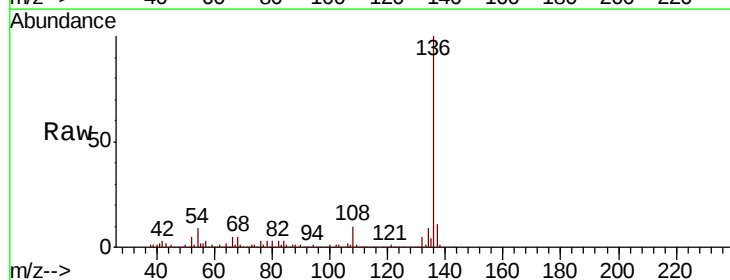
Manual Integrations  
APPROVED

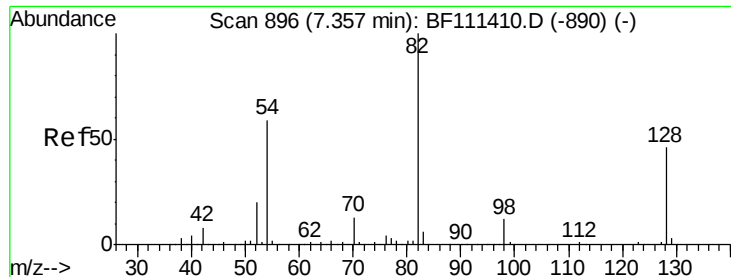
Sohil  
12/18/2018 12:49:17 PM



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.01 min  
Lab File: BF111545.D  
Acq: 17 Dec 2018 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.2  | 9.1   | 13.7  |
| 54      | 9.1   | 7.7   | 11.5  |
| 68      | 4.7   | 4.9   | 7.3#  |





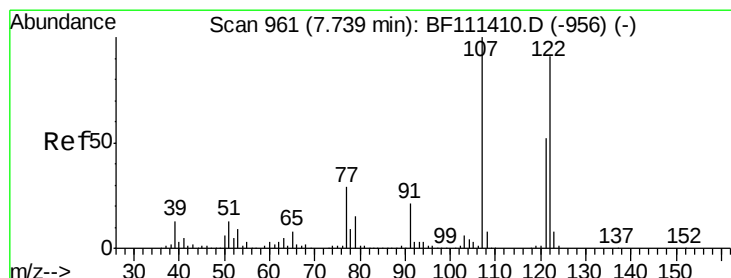
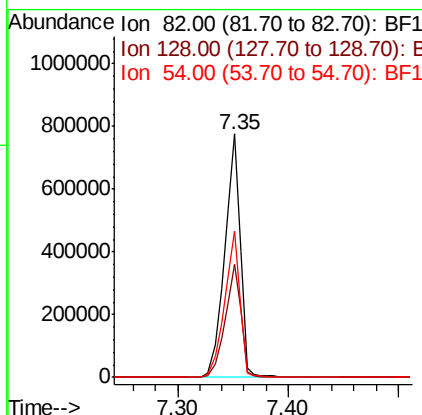
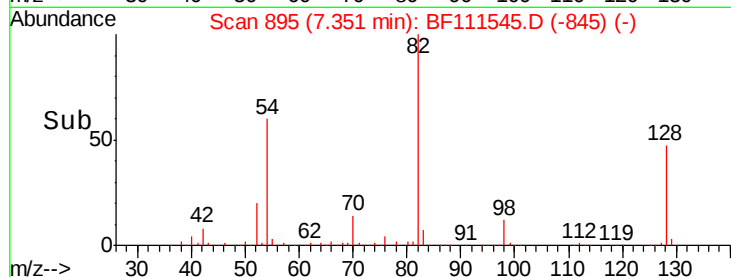
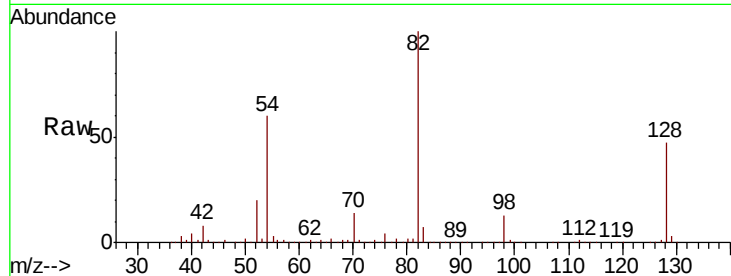
#23  
 Nitrobenzene-d5  
 Concen: 91.972 ng  
 RT: 7.35 min Scan# 895  
 Delta R.T. -0.01 min  
 Lab File: BF111545.D  
 Acq: 17 Dec 2018 18:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.6  | 37.4  | 56.2  |
| 54      | 60.3  | 47.6  | 71.4  |

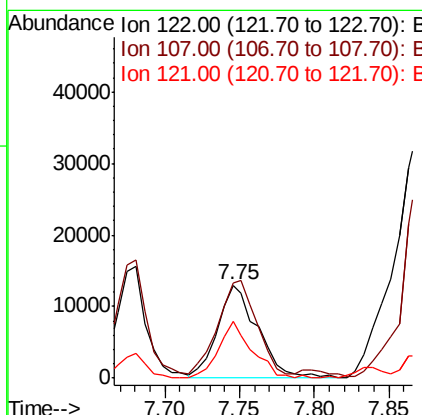
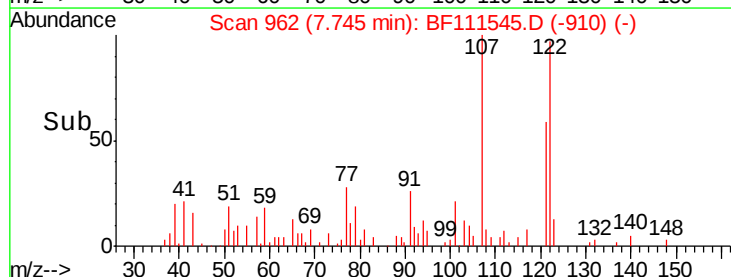
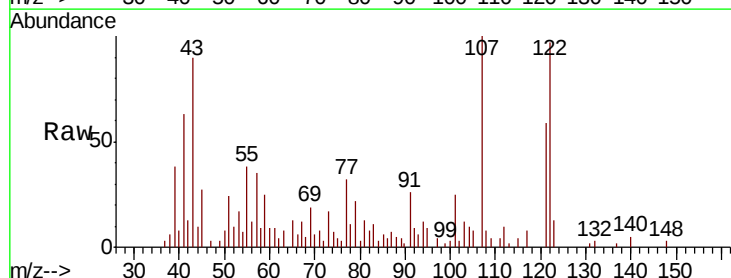
Manual Integrations  
 APPROVED

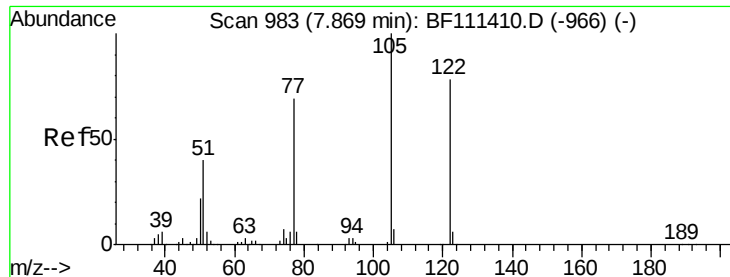
Sohil  
 12/18/2018 12:49:17 PM



#27  
 2,4-Dimethylphenol  
 Concen: 3.793 ng  
 RT: 7.75 min Scan# 962  
 Delta R.T. 0.01 min  
 Lab File: BF111545.D  
 Acq: 17 Dec 2018 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 103.4 | 85.5  | 128.3 |
| 121     | 60.8  | 46.6  | 70.0  |





#32

Benzoic acid

Concen: 78.112 ng/ml

RT: 7.96 min Scan# 998

Delta R.T. 0.09 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

Instrument :

BNA\_F

ClientSampleId :

COMP-1

Tot Ion:122 Resp: 435076

Ion Ratio Lower Upper

122 100

105 120.2 97.0 137.0

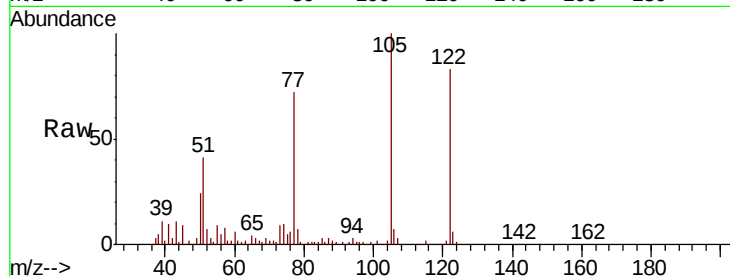
77 86.9 65.7 105.7

Manual Integrations

APPROVED

Sohil

12/18/2018 12:49:17 PM

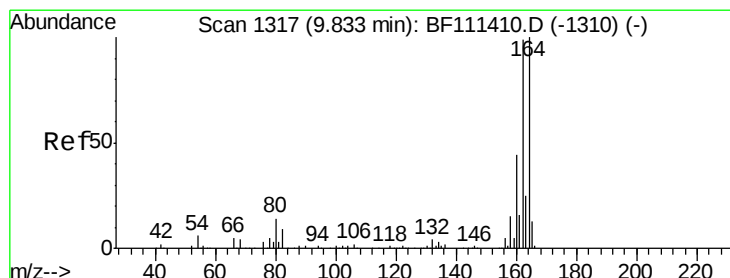
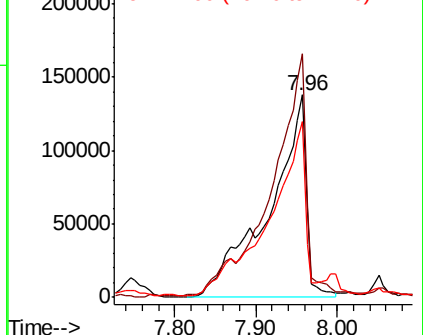
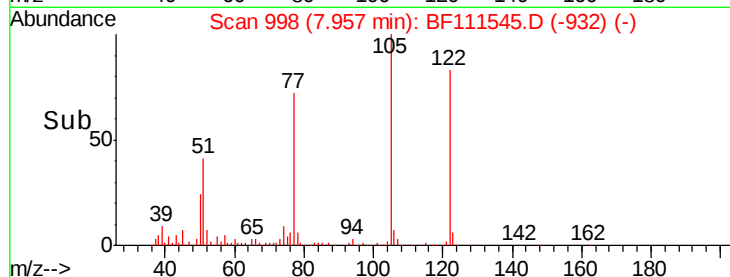


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

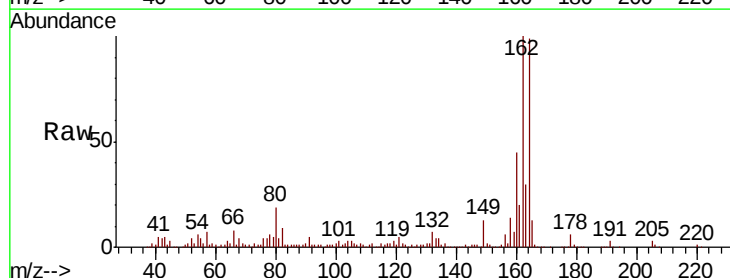
Tgt Ion:164 Resp: 341013

Ion Ratio Lower Upper

164 100

162 101.0 81.4 122.0

160 45.1 35.7 53.5

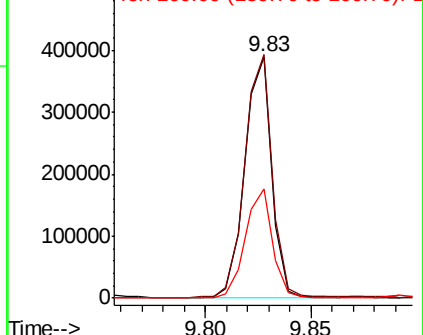
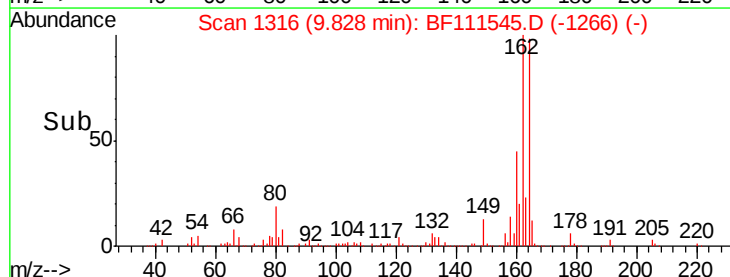


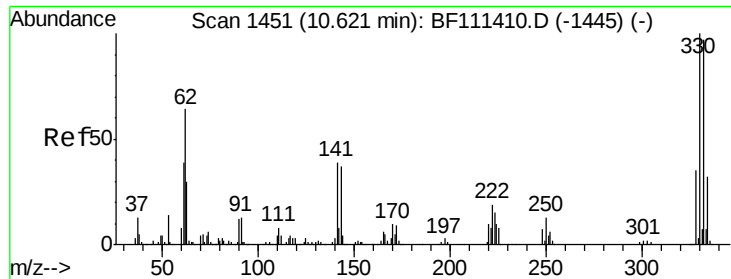
Abundance

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: 121.054 ng

RT: 10.62 min Scan# 1451

Delta R.T. 0.00 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

Instrument :

BNA\_F

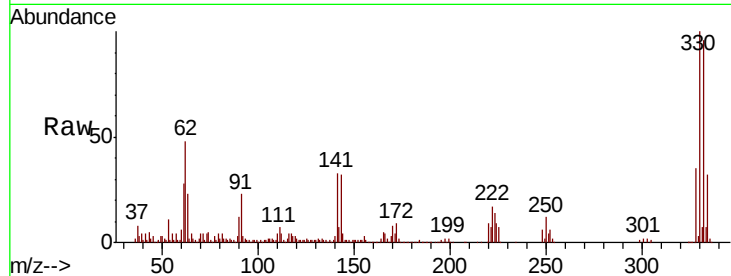
ClientSampled :

COMP-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 369790 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.8  | 76.0  | 114.0  |
| 141       | 39.1  | 31.0  | 46.6   |

Manual Integrations  
APPROVED

Sohil  
12/18/2018 12:49:17 PM

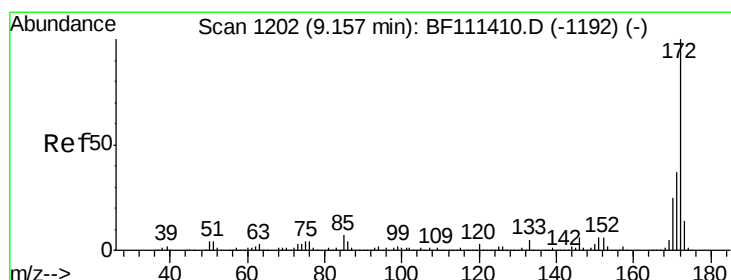
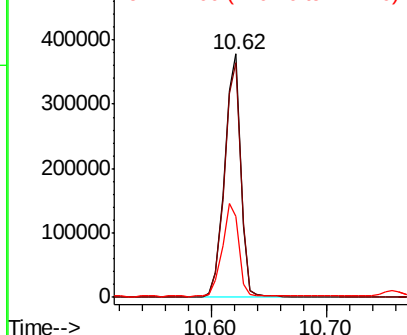
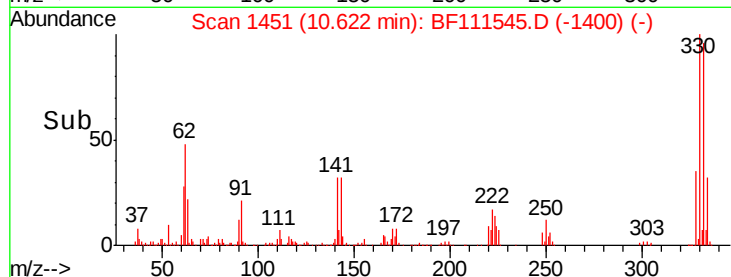


Abundance

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: 65.595 ng

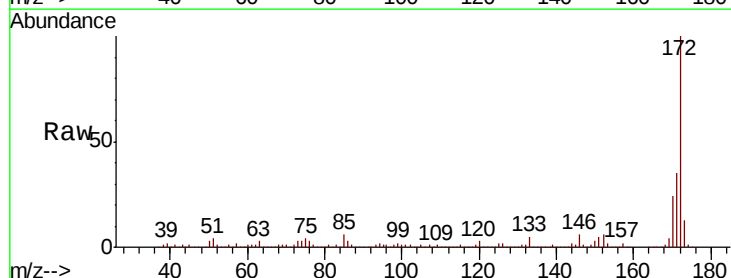
RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF111545.D

Acq: 17 Dec 2018 18:08

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1448158 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 35.4  | 33.0  | 49.4    |
| 170       | 23.7  | 22.3  | 33.5    |

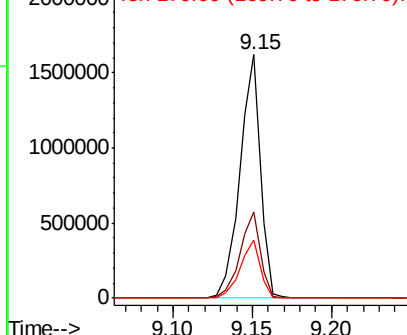
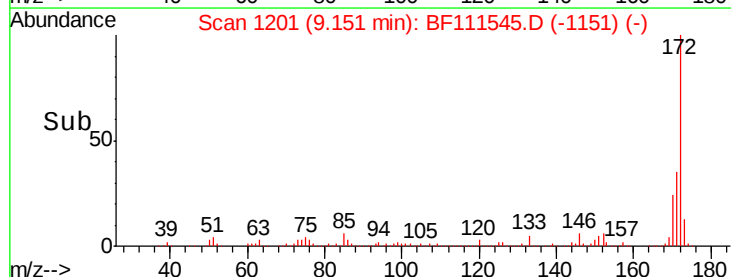


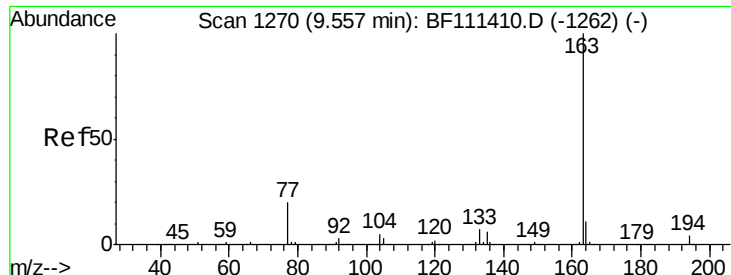
Abundance

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





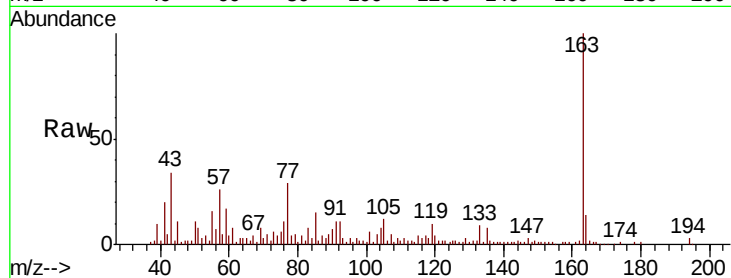
#50  
Dimethylphthalate  
Concen: 3.426 ng  
RT: 9.54 min Scan# 1267  
Delta R.T. -0.02 min  
Lab File: BF111545.D  
Acq: 17 Dec 2018 18:08

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 3.0   | 4.6   |
| 164     | 14.2  | 8.9   | 13.3  |

Manual Integrations  
APPROVED

Sohil  
12/18/2018 12:49:17 PM

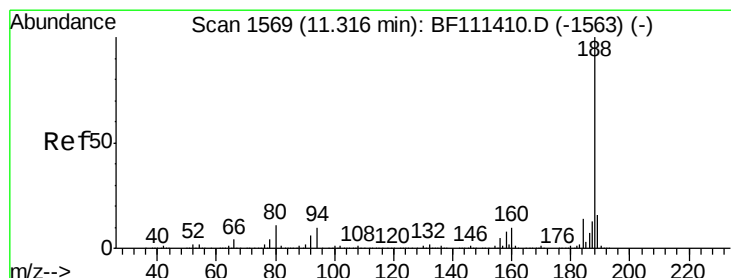
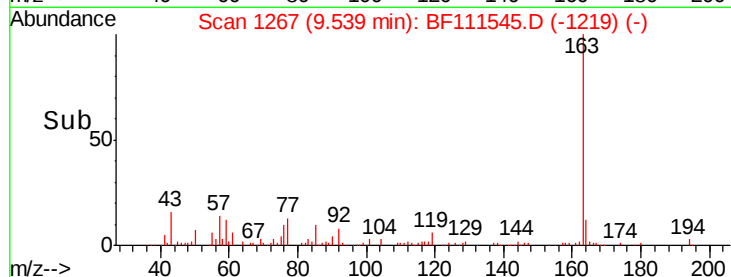
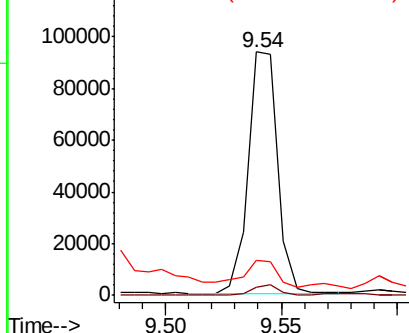


Abundance

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



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.31 min Scan# 1568  
Delta R.T. -0.01 min  
Lab File: BF111545.D  
Acq: 17 Dec 2018 18:08

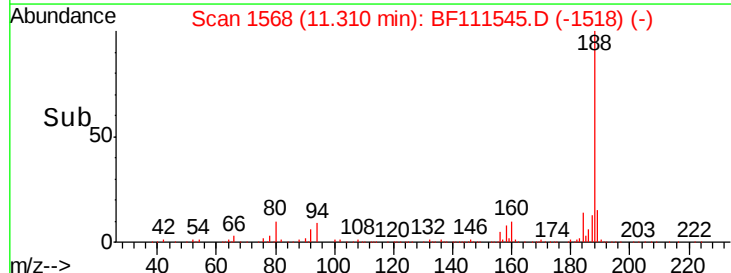
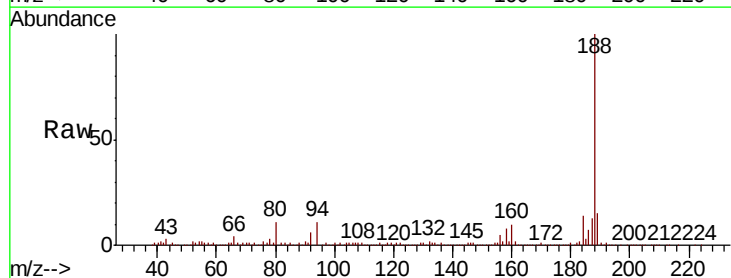
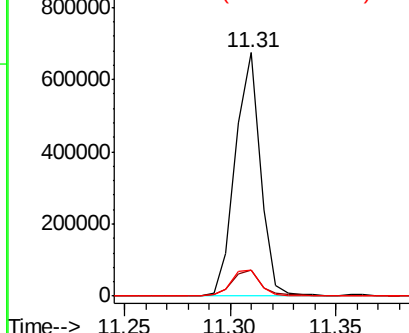
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 9.6   | 14.4  |
| 80      | 10.8  | 9.8   | 14.6  |

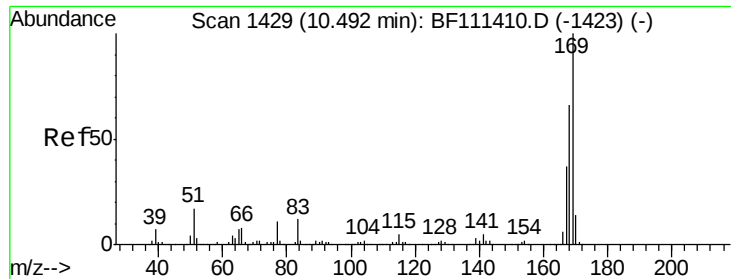
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





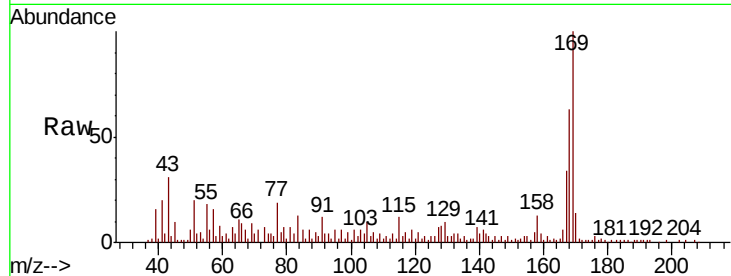
#66  
n-Nitrosodiphenylamine  
Concen: 3.298 ng  
RT: 10.48 min Scan# 1427  
Delta R.T. -0.01 min  
Lab File: BF111545.D  
Acq: 17 Dec 2018 18:08

Instrument :  
BNA\_F  
ClientSampled :  
COMP-1

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 169     | 100  |       | 62954 |       |       |
| 168     | 62.9 | 54.4  | 81.6  |       |       |
| 167     | 34.5 | 30.5  | 45.7  |       |       |

Manual Integrations  
APPROVED

Sohil  
12/18/2018 12:49:17 PM



Abundance

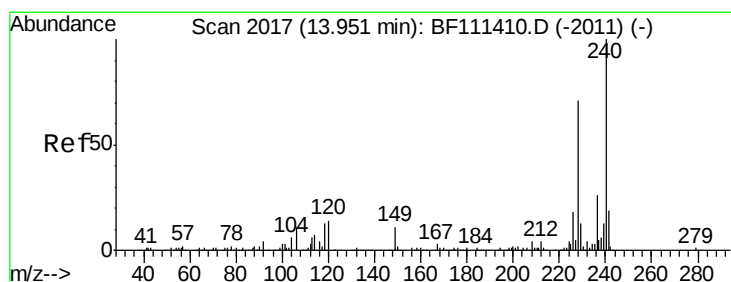
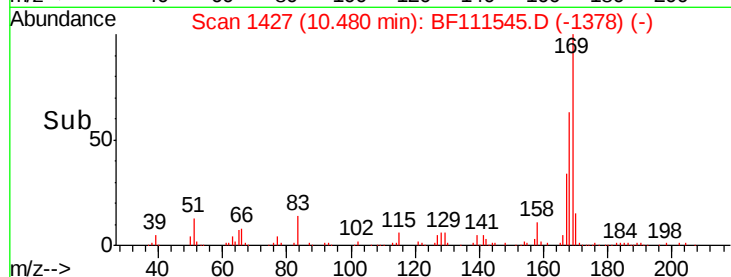
Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

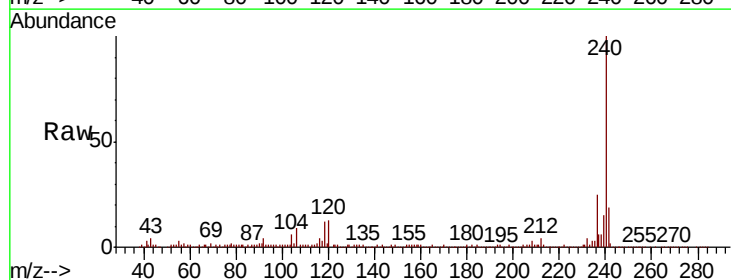
10.48

Time-->



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BF111545.D  
Acq: 17 Dec 2018 18:08

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 358313 |       |       |
| 120     | 13.2 | 12.2  | 18.2   |       |       |
| 236     | 24.5 | 20.2  | 30.2   |       |       |



Abundance

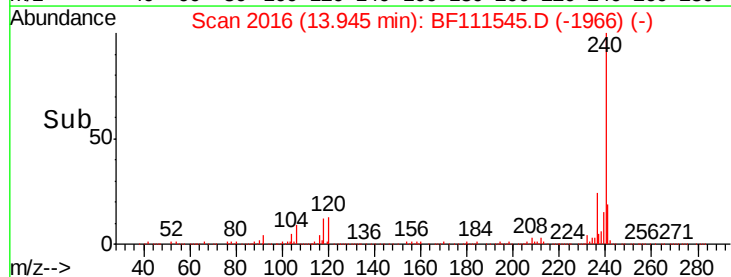
Ion 240.00 (239.70 to 240.70): E

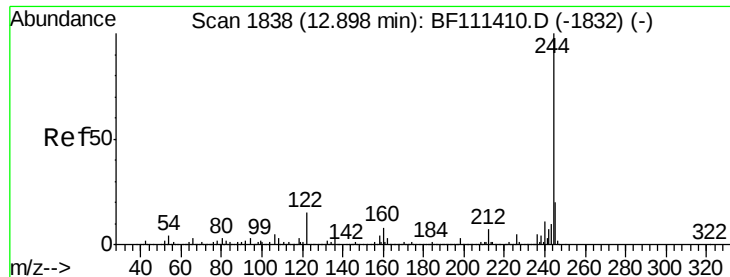
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.94

Time-->





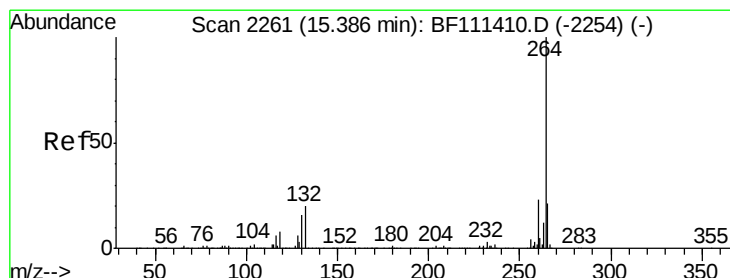
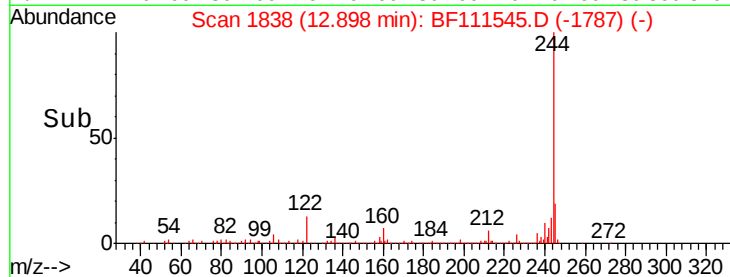
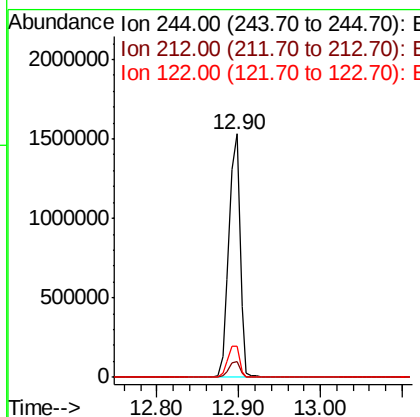
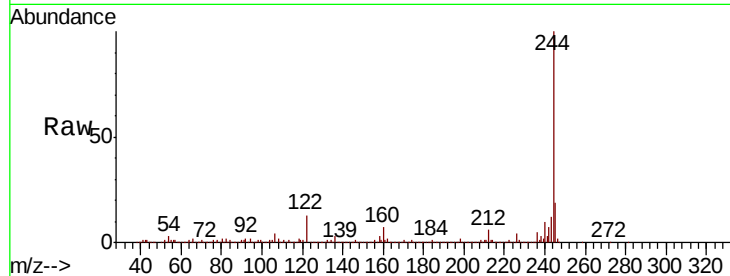
#79  
 Terphenyl-d14  
 Concen: 95.488 ng  
 RT: 12.90 min Scan# 1838  
 Delta R.T. 0.00 min  
 Lab File: BF111545.D  
 Acq: 17 Dec 2018 18:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-1

Tot Ion:244 Resp: 1457033  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.7 8.5  
 122 12.7 13.1 19.7#

Manual Integrations  
 APPROVED

Sohil  
 12/18/2018 12:49:17 PM



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.39 min Scan# 2261  
 Delta R.T. 0.00 min  
 Lab File: BF111545.D  
 Acq: 17 Dec 2018 18:08

Tgt Ion:264 Resp: 376279  
 Ion Ratio Lower Upper  
 264 100  
 260 22.8 18.3 27.5  
 265 20.7 17.7 26.5

