Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF040516\
Data File : BF086083.D
Acq On : 5 Apr 2016 19:36
Operator : UM/SJ
Sample : H2149-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 51-35-REEDER-DISCHARGE

Quant Time: Apr 06 00:52:26 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.75 | 152 | 120107 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 8.04 | 136 | 473335 | 20.00 | ng | | -0.02 |
| 38) Acenaphthene-d10 | 9.79 | 164 | 222953 | 20.00 | ng | | -0.02 |
| 63) Phenanthrene-d10 | 11.28 | 188 | 397336 | 20.00 | ng | | -0.02 |
| 75) Chrysene-d12 | 13.91 | 240 | 261510 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 15.31 | 264 | 204703 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.34 | 112 | 405384 | 57.69 | ng | | -0.02 |
| 7) Phenol-d6 | 6.40 | 99 | 345139 | 38.67 | ng | | -0.02 |
| 23) Nitrobenzene-d5 | 7.32 | 82 | 616981 | 76.87 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.58 | 330 | 232906 | 111.30 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 9.12 | 172 | 1058868 | 78.97 | ng | | -0.02 |
| 78) Terphenyl-d14 | 12.85 | 244 | 930202 | 83.61 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.29 | 88 | 21635 | 6.49 | ng | | 92 |
| 9) Benzaldehyde | 6.52 | 77 | 14593 | 3.04 | ng | | 90 |
| 15) Benzyl Alcohol | 6.90 | 79 | 97935 | 16.96 | ng | | 93 |
| 17) 2-Methylphenol | 6.90 | 107 | 47802 | 7.24 | ng | # | 1 |
| 19) n-Nitroso-di-n-propylamine | 7.32 | 70 | 82776 | 14.96 | ng | # | 79 |
| 25) Isophorone | 7.32 | 82 | 490501 | 30.96 | ng | # | 68 |
| 50) 2,6-Dinitrotoluene | 9.79 | 165 | 29023 | 8.30 | ng | # | 19 |
| 53) 2,4-Dinitrophenol | 9.81 | 184 | 255 | 2.12 | ng | # | 1 |
| 56) 2,4-Dinitrotoluene | 9.79 | 165 | 29025 | 6.57 | ng | # | 38 |

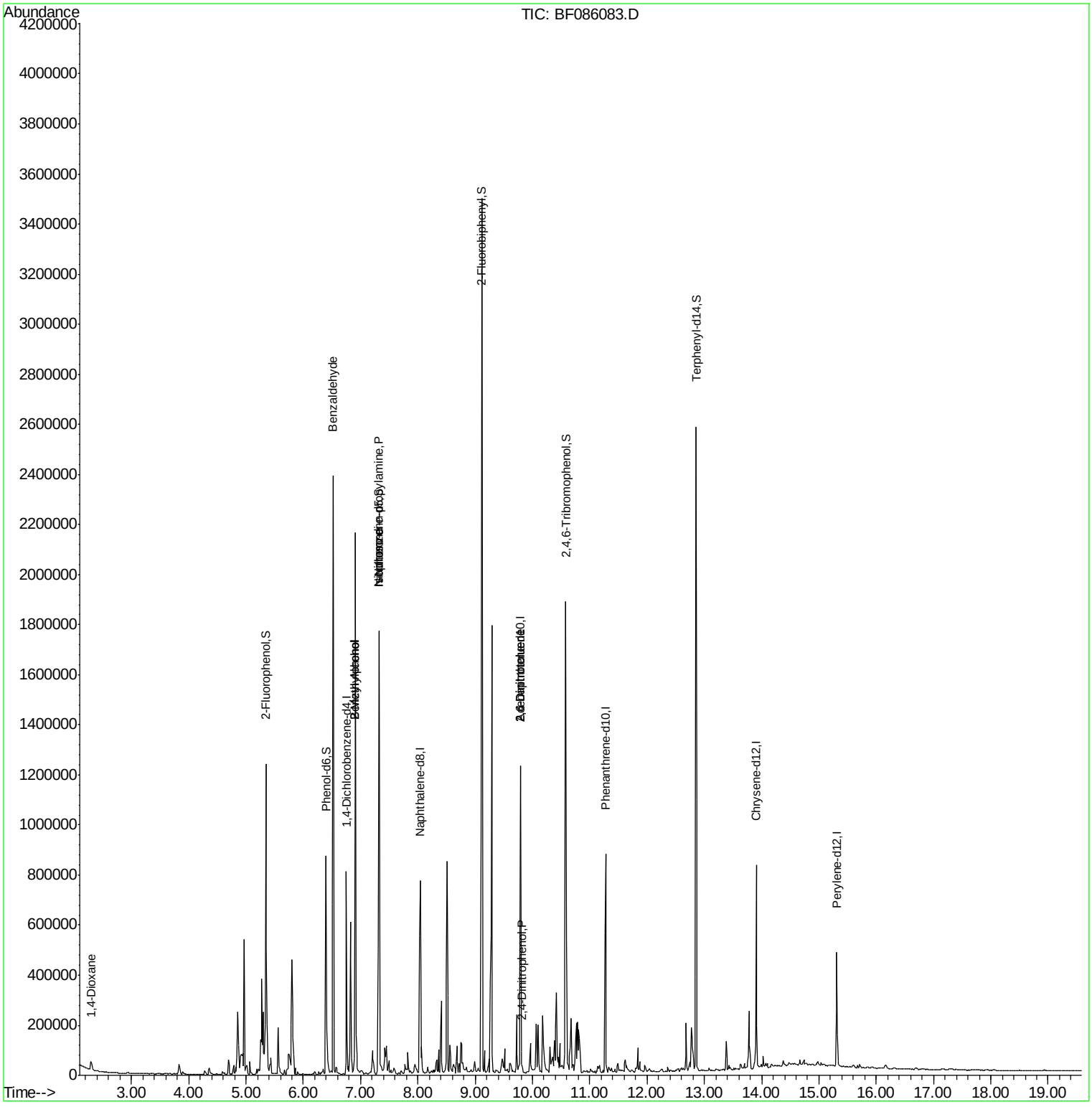
(#) = qualifier out of range (m) = manual integration (+) = signals summed

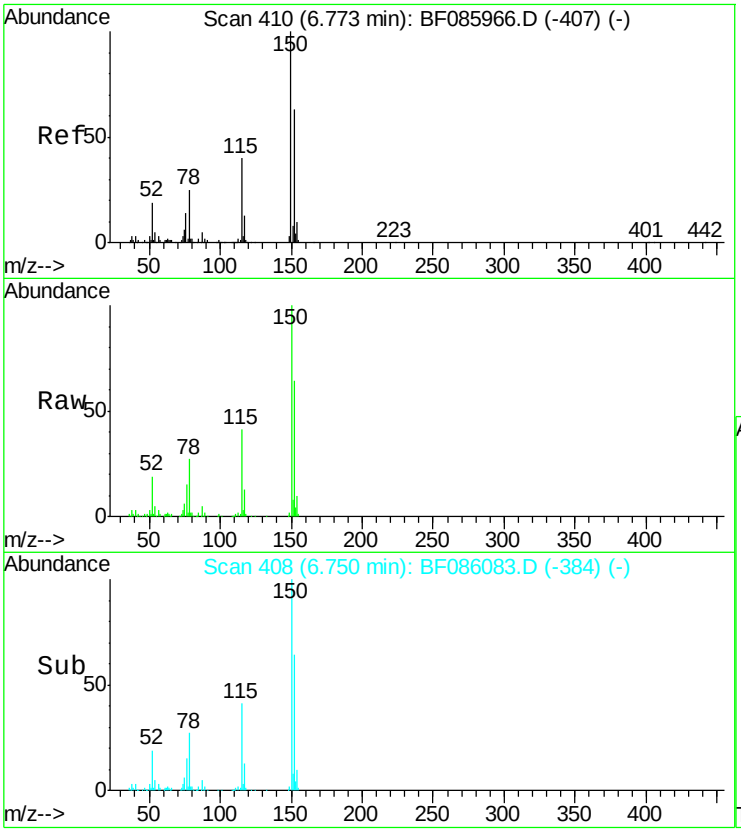
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF040516\
Data File : BF086083.D
Acq On : 5 Apr 2016 19:36
Operator : UM/SJ
Sample : H2149-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Quant Time: Apr 06 00:52:26 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration



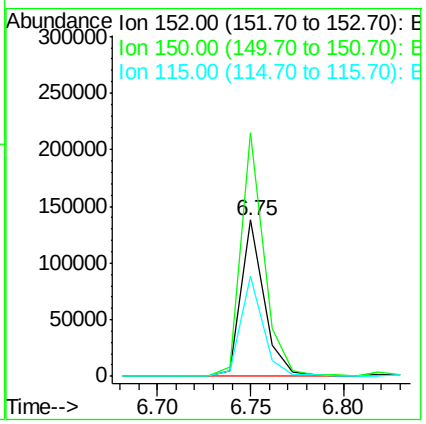


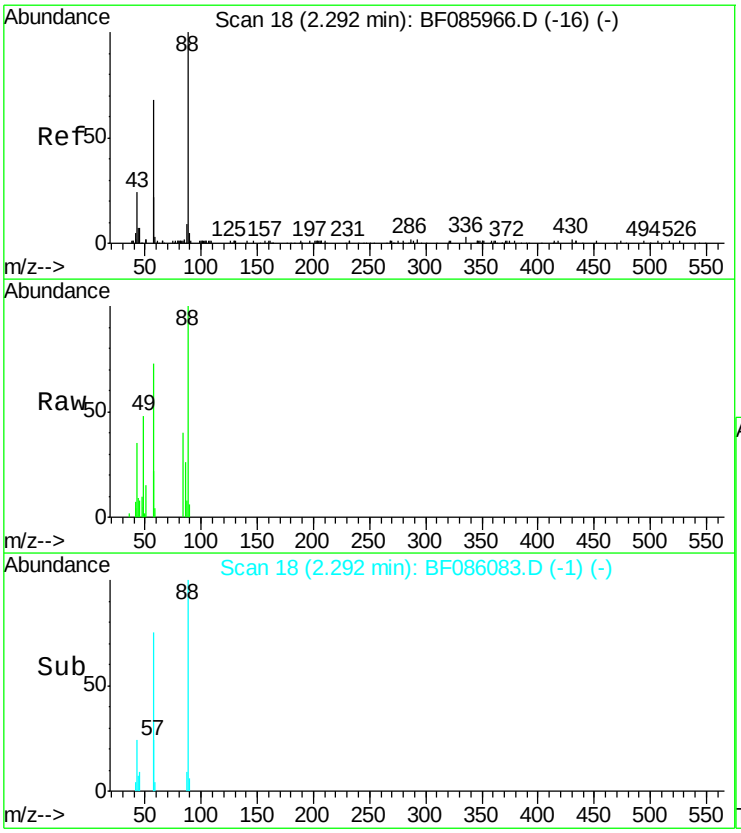

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.75 min Scan# 408
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:152 Resp: 120107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.0 | 124.2 | 186.2 |
| 115 | 64.3 | 47.0 | 70.6 |

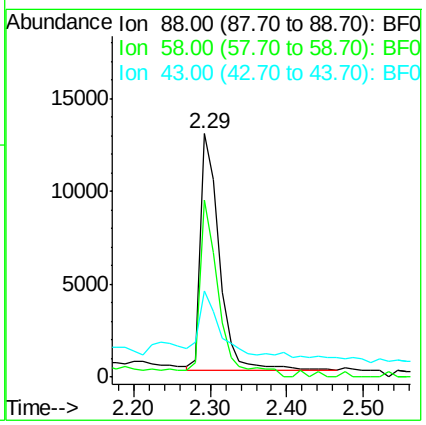


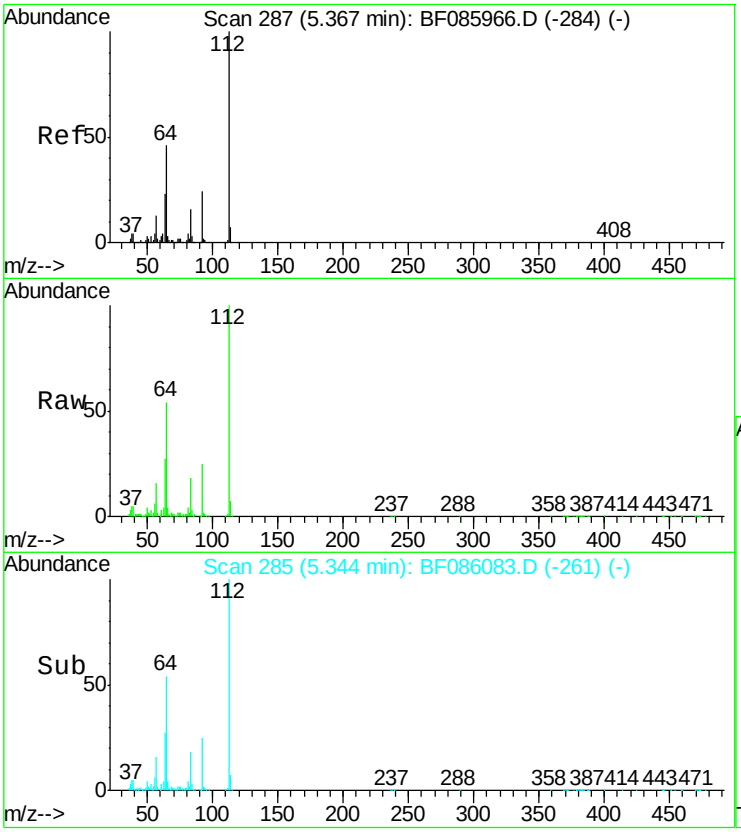




#2
1,4-Dioxane
Concen: 6.49 ng
RT: 2.29 min Scan# 18
Delta R.T. -0.00 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion: 88 Resp: 21635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 75.3 | 54.2 | 81.2 |
| 43 | 25.8 | 19.3 | 28.9 |



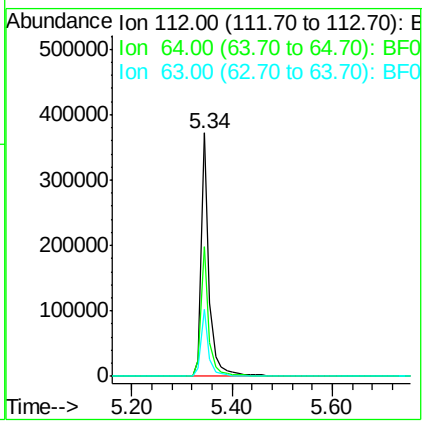


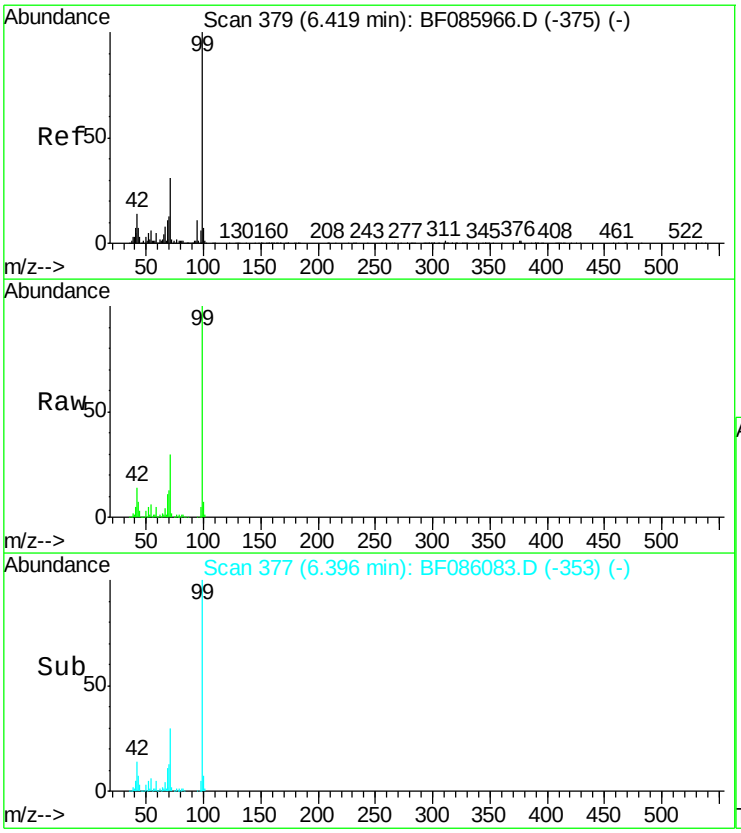

#5
2-Fluorophenol
Concen: 57.69 ng
RT: 5.34 min Scan# 285
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:112 Resp: 405384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.5 | 39.9 | 59.9 |
| 63 | 27.4 | 20.2 | 30.2 |

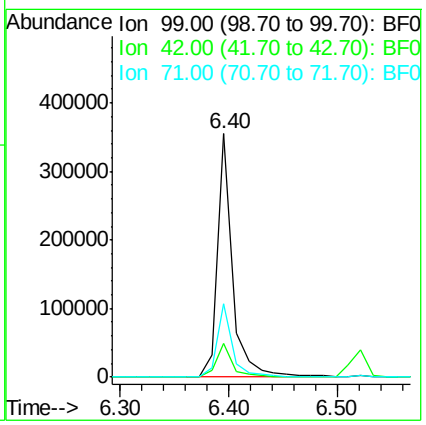


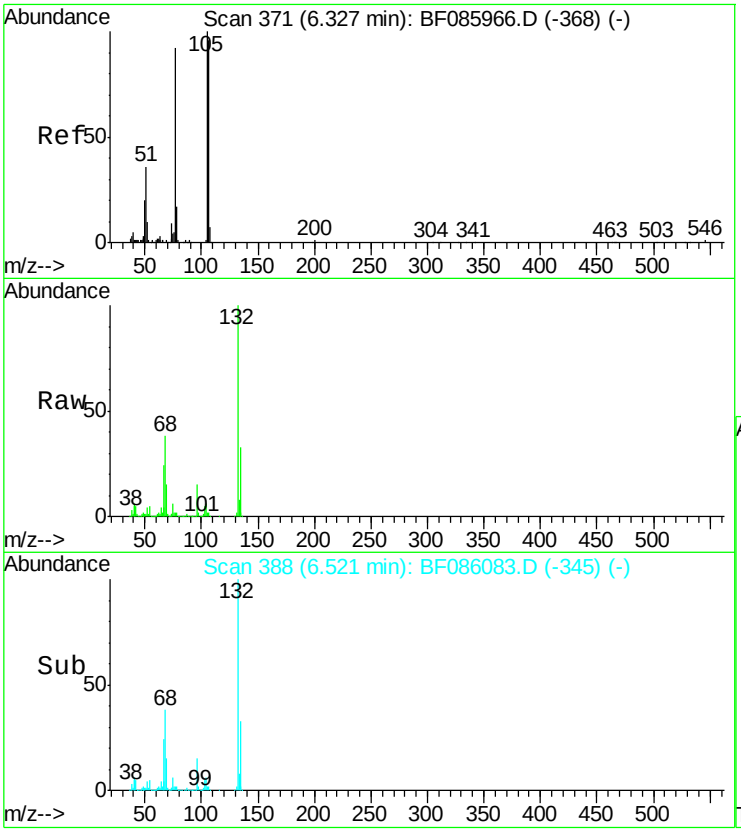




#7
Phenol-d6
Concen: 38.67 ng
RT: 6.40 min Scan# 377
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion: 99 Resp: 345139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 14.0 | 11.1 | 16.7 |
| 71 | 30.0 | 24.9 | 37.3 |



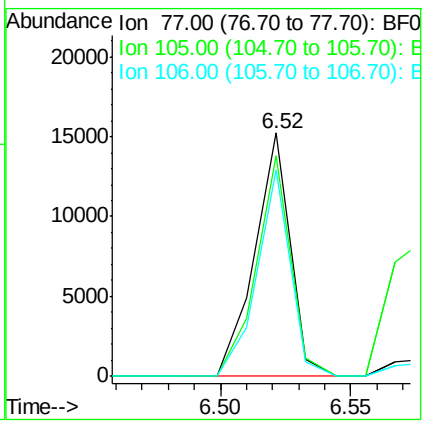


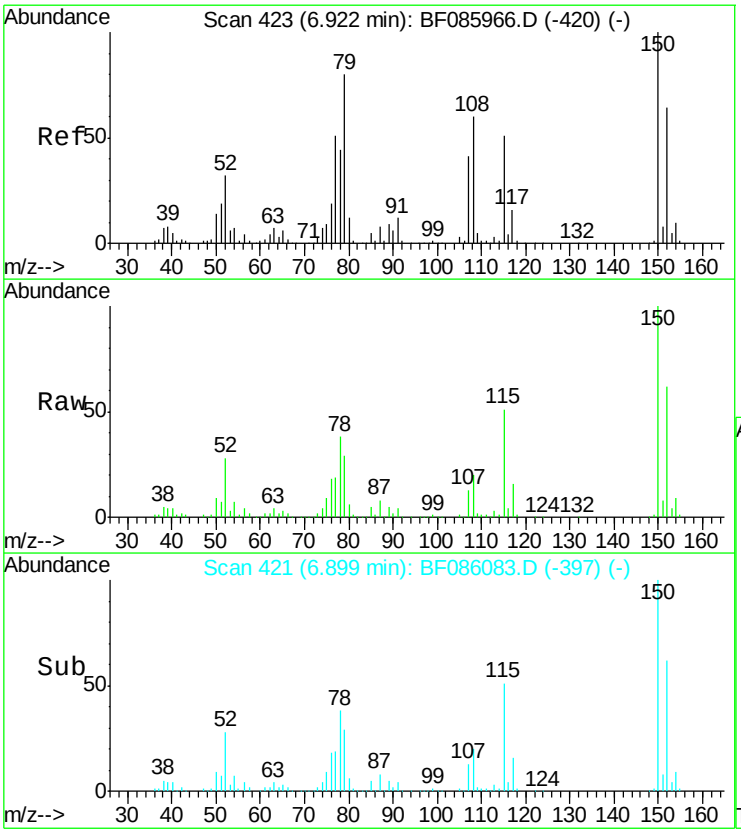

#9
Benzaldehyde
Concen: 3.04 ng
RT: 6.52 min Scan# 388
Delta R.T. 0.19 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion: 77 Resp: 14593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 90.3 | 80.1 | 120.1 |
| 106 | 84.7 | 75.0 | 115.0 |

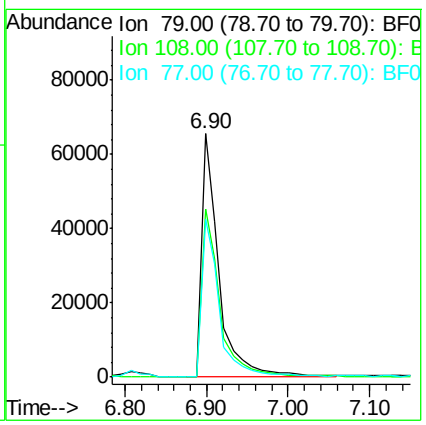


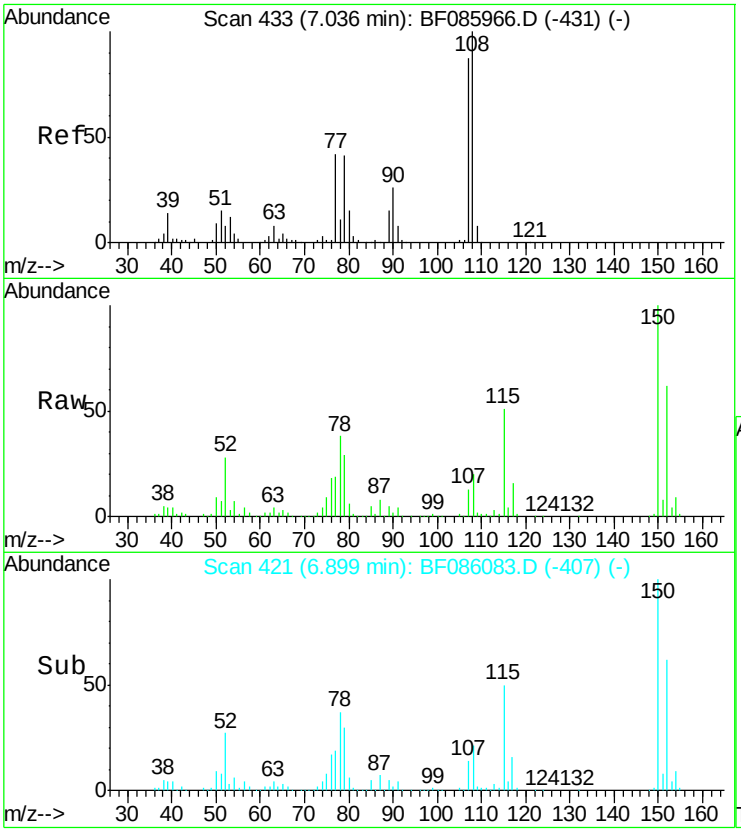




#15
Benzyl Alcohol
Concen: 16.96 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion: 79 Resp: 97935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 69.3 | 61.8 | 92.6 |
| 77 | 64.6 | 49.6 | 74.4 |



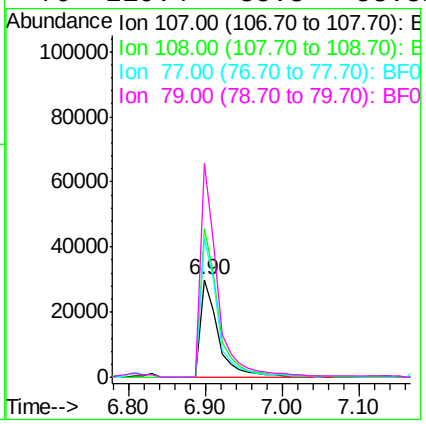


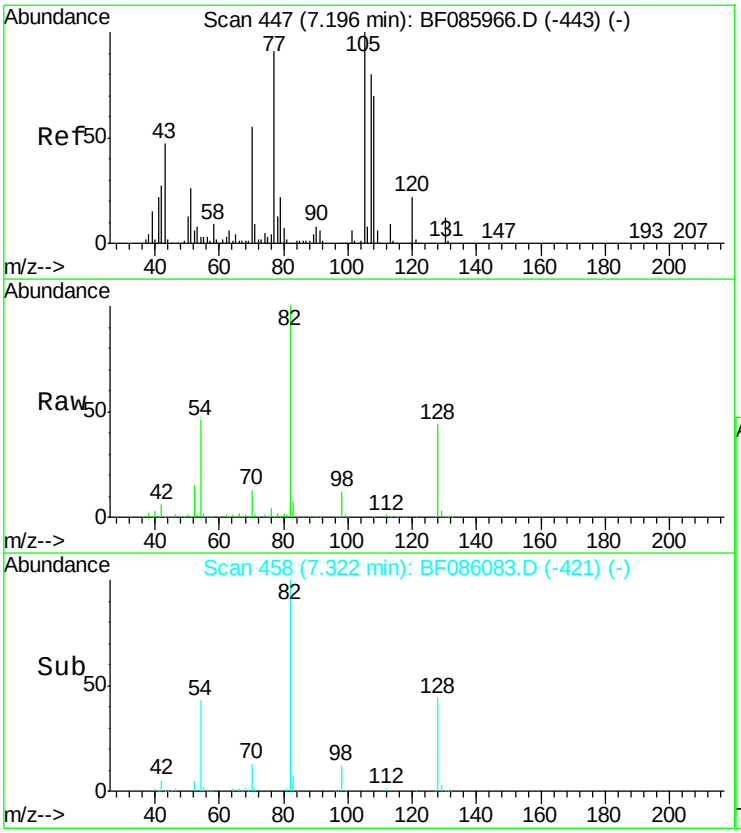

#17
2-Methylphenol
Concen: 7.24 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.14 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:107 Resp: 47802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 152.0 | 91.4 | 137.0# |
| 77 | 141.7 | 36.2 | 54.2# |
| 79 | 219.4 | 35.8 | 53.8# |

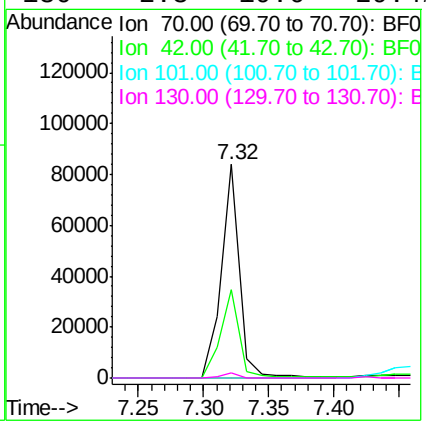


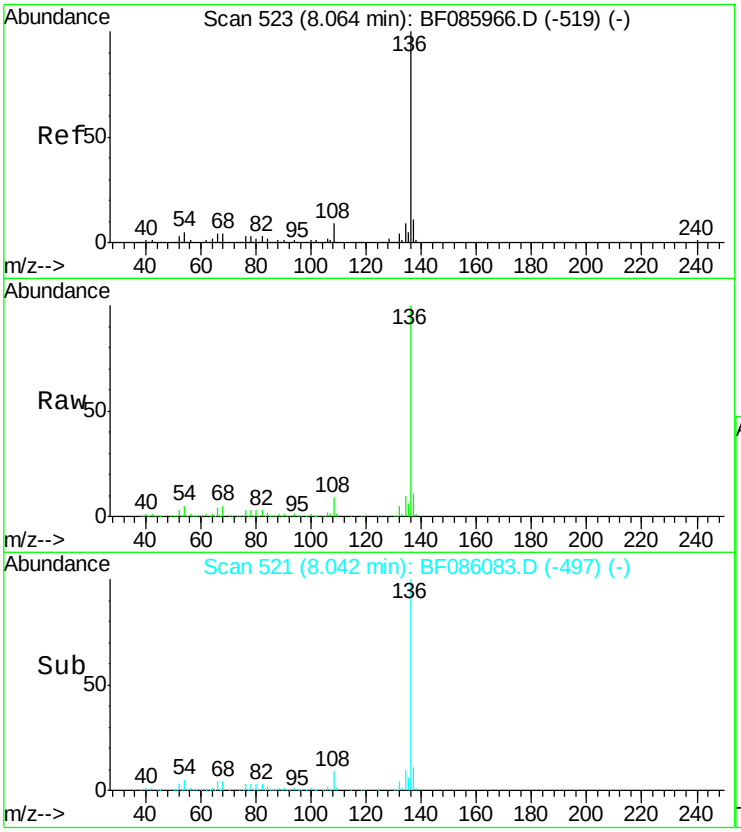




#19
n-Nitroso-di-n-propylamine
Concen: 14.96 ng
RT: 7.32 min Scan# 458
Delta R.T. 0.13 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion: 70 Resp: 82776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 41.4 | 37.1 | 55.7 |
| 101 | 0.0 | 8.6 | 12.8# |
| 130 | 2.3 | 19.6 | 29.4# |



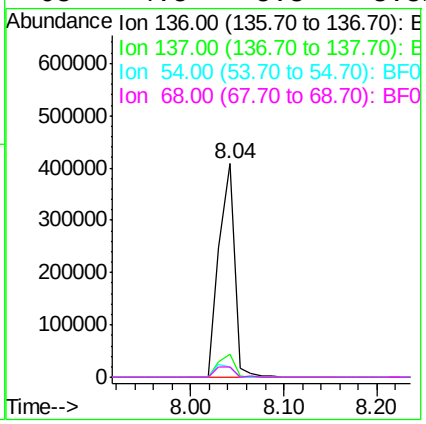


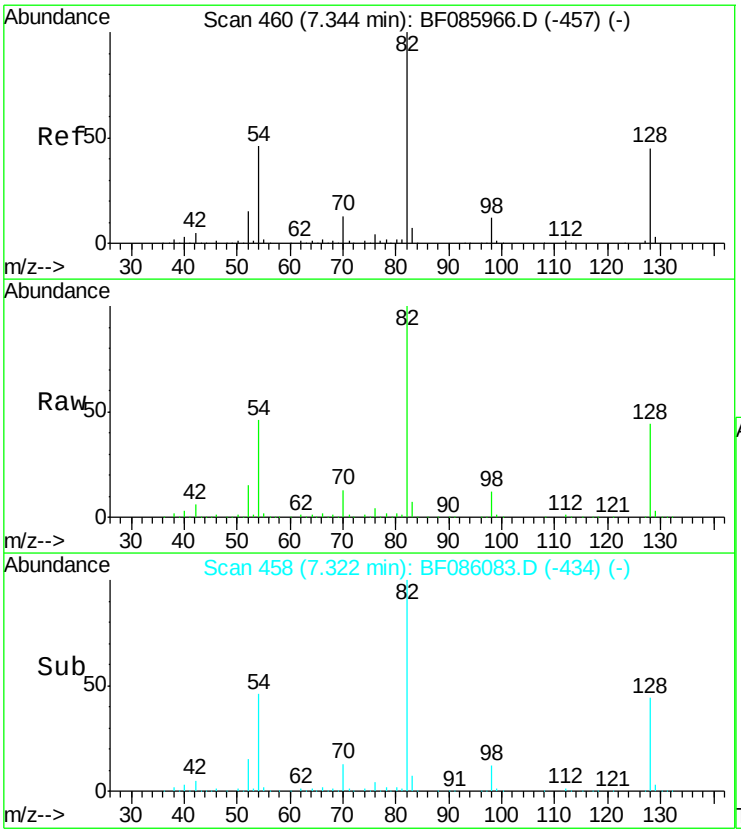

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.04 min Scan# 521
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:136 Resp: 473335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.8 | 9.1 | 13.7 |
| 54 | 5.0 | 7.4 | 11.0# |
| 68 | 4.5 | 5.8 | 8.8# |

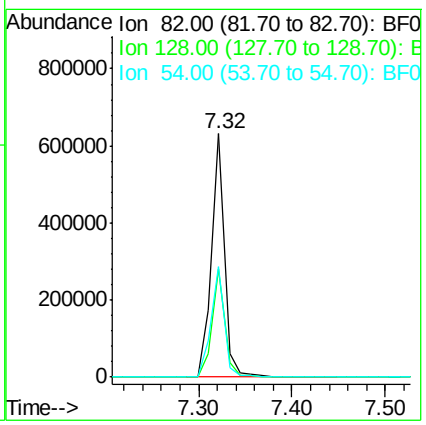


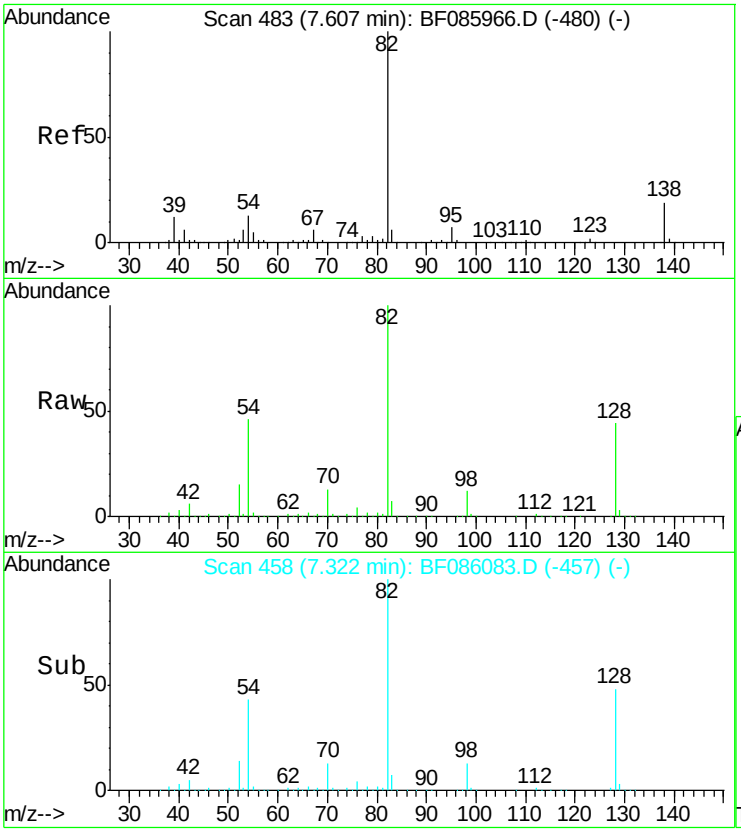




#23
Nitrobenzene-d5
Concen: 76.87 ng
RT: 7.32 min Scan# 458
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion: 82 Resp: 616981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.4 | 41.8 | 62.8 |
| 54 | 45.6 | 33.4 | 50.0 |



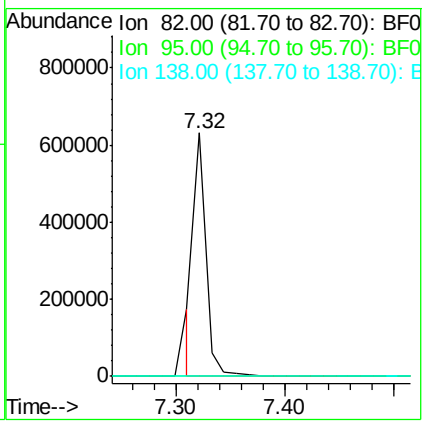


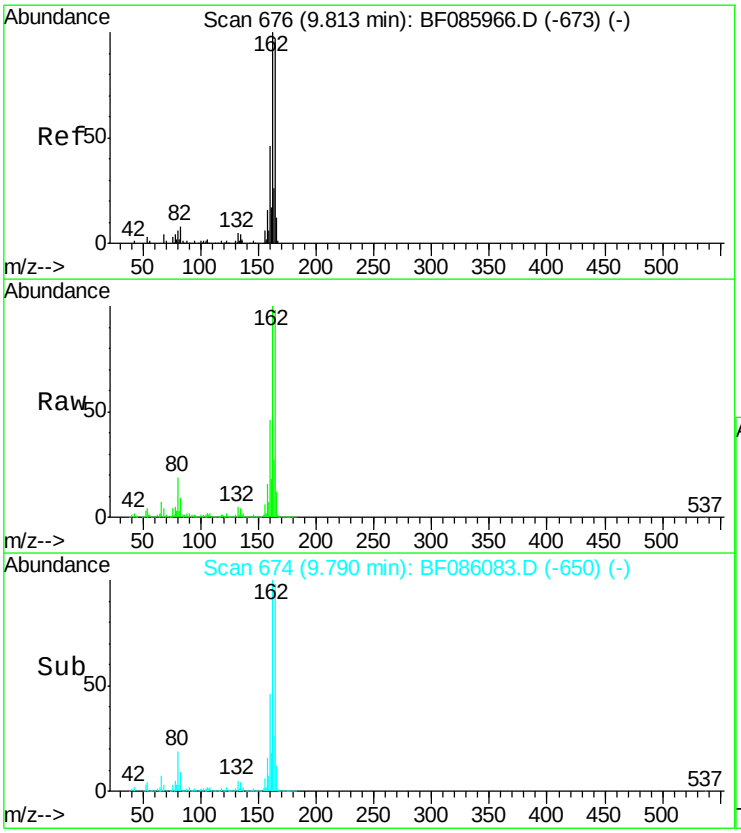

#25
Isophorone
Concen: 30.96 ng
RT: 7.32 min Scan# 458
Delta R.T. -0.29 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion: 82 Resp: 490501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 0.0 | 5.4 | 8.2# |
| 138 | 0.0 | 12.9 | 19.3# |

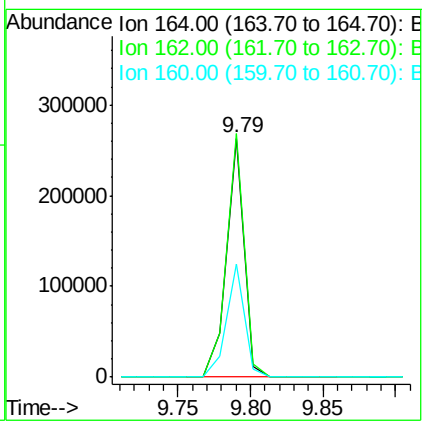


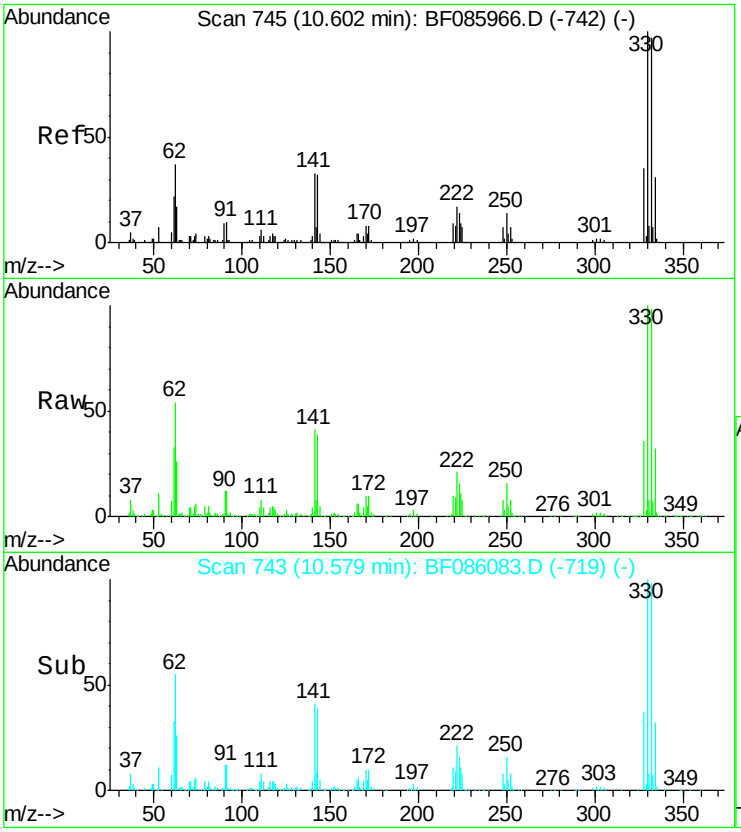




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.79 min Scan# 674
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion:164 Resp: 222953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.1 | 82.1 | 123.1 |
| 160 | 47.4 | 37.4 | 56.2 |



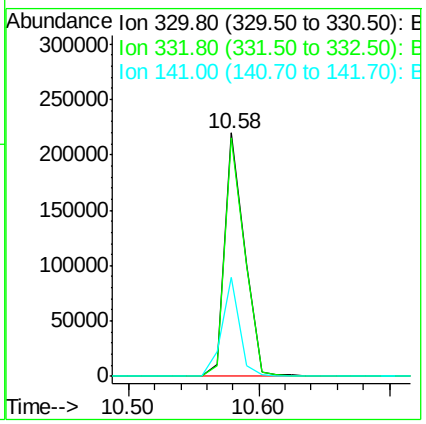


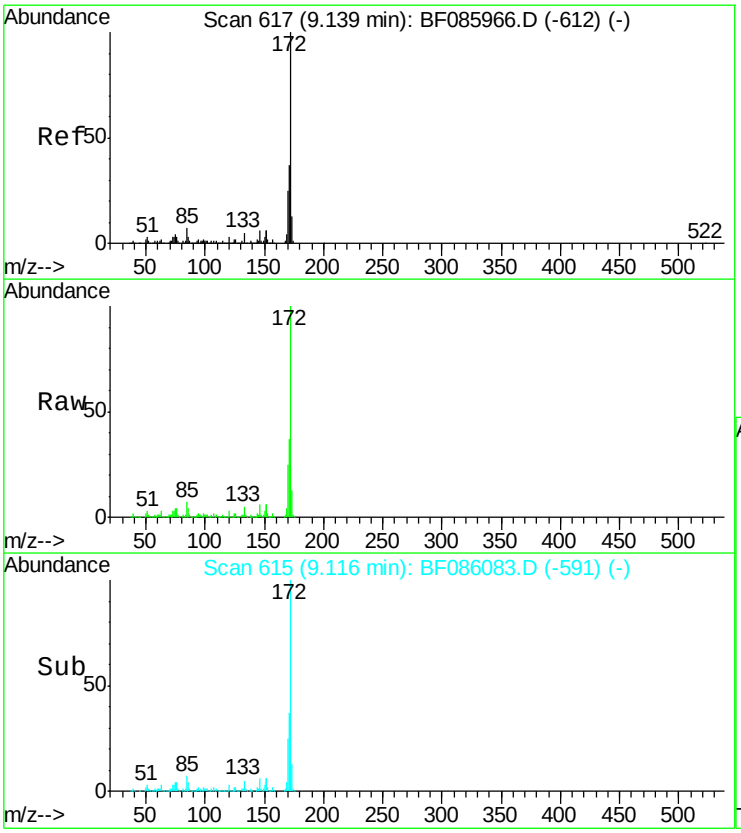

#41
2,4,6-Tribromophenol
Concen: 111.30 ng
RT: 10.58 min Scan# 743
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:330 Resp: 232906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.3 | 78.2 | 117.2 |
| 141 | 36.6 | 31.5 | 47.3 |

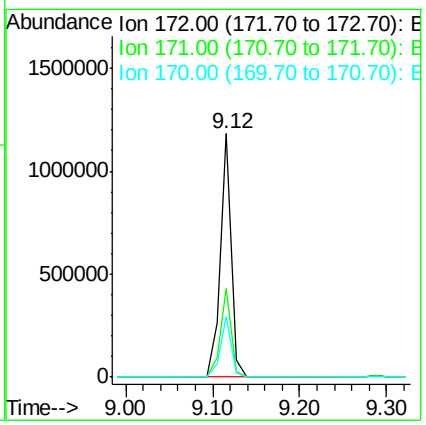


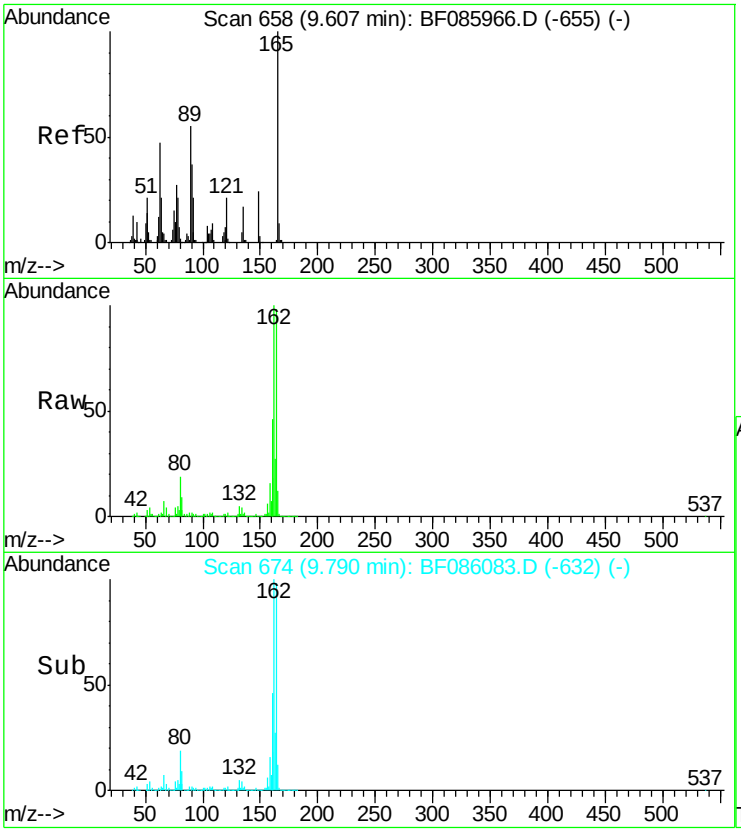




#44
2-Fluorobiphenyl
Concen: 78.97 ng
RT: 9.12 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion:172 Resp: 1058868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.4 | 44.2 |
| 170 | 24.9 | 19.8 | 29.6 |



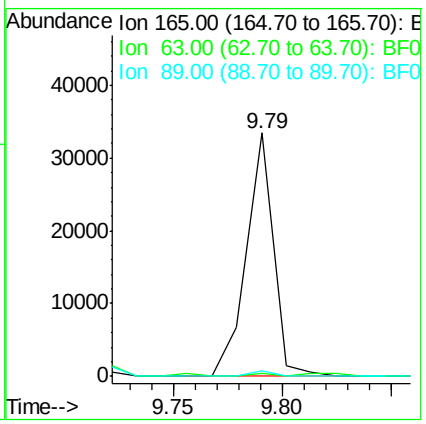


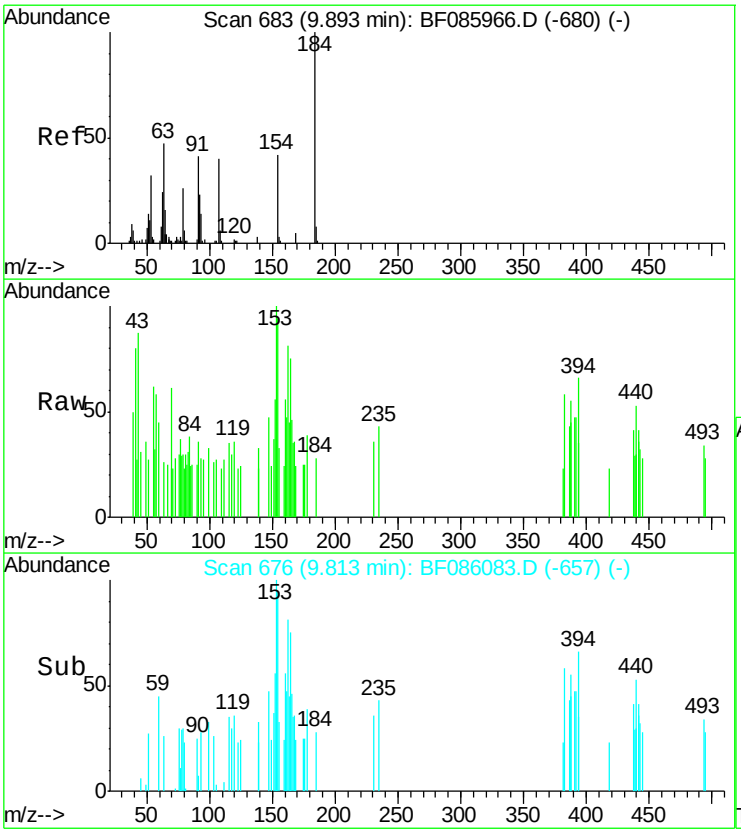

#50
2,6-Dinitrotoluene
Concen: 8.30 ng
RT: 9.79 min Scan# 674
Delta R.T. 0.18 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:165 Resp: 29023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 1.4 | 51.8 | 77.8# |
| 89 | 2.3 | 53.7 | 80.5# |

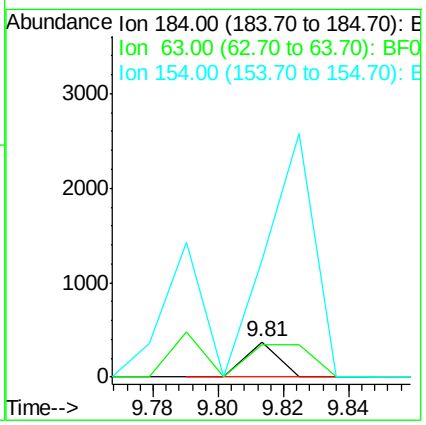


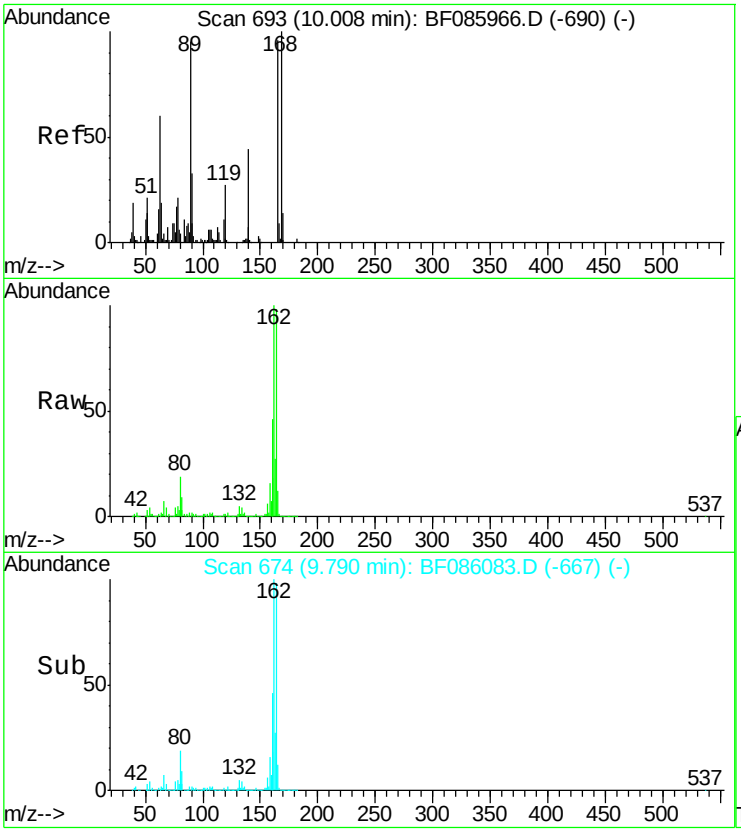




#53
2,4-Dinitrophenol
Concen: 2.12 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.08 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion:184 Resp: 255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 92.5 | 69.5 | 104.3 |
| 154 | 332.3 | 58.3 | 87.5# |



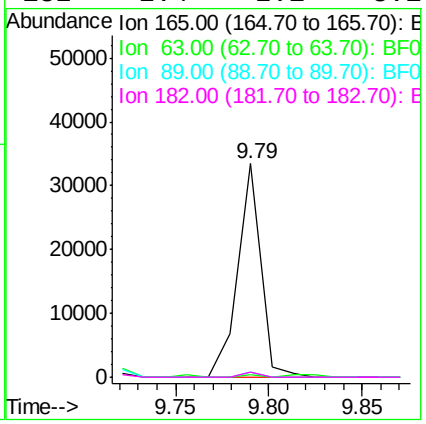


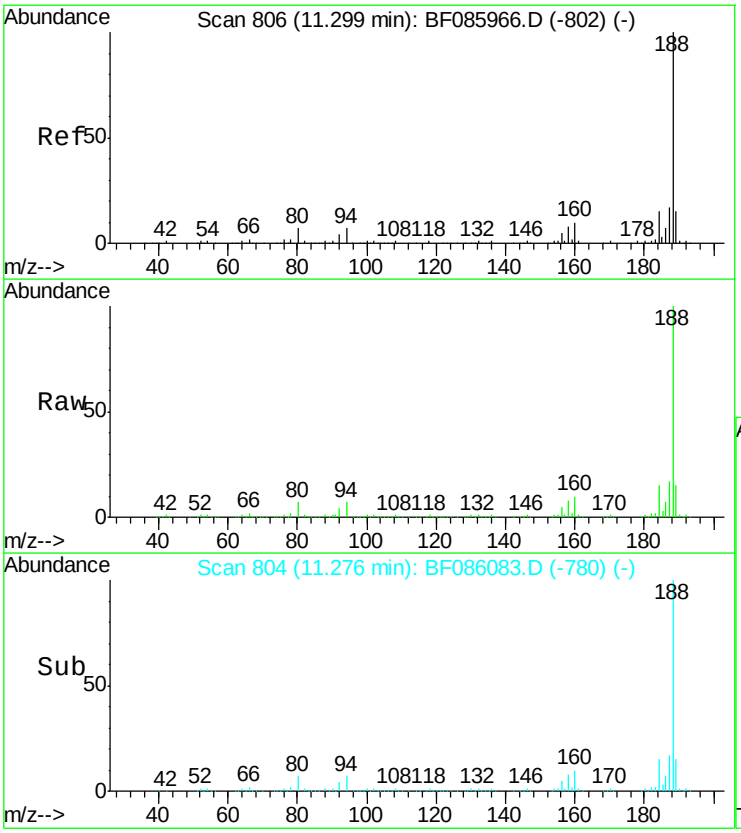

#56
2,4-Dinitrotoluene
Concen: 6.57 ng
RT: 9.79 min Scan# 674
Delta R.T. -0.22 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:165 Resp: 29025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 1.4 | 24.9 | 37.3# |
| 89 | 2.3 | 41.0 | 61.6# |
| 182 | 2.4 | 2.1 | 3.1 |

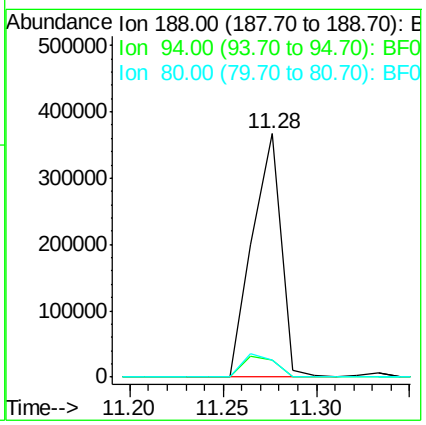


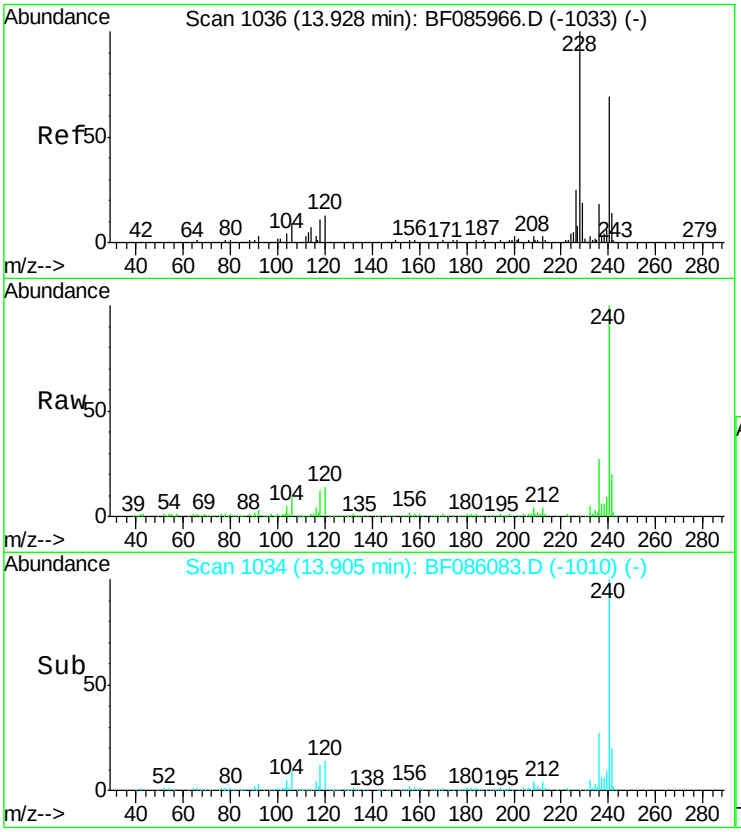




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.28 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion:188 Resp: 397336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 6.9 | 5.4 | 8.0 |
| 80 | 7.0 | 5.5 | 8.3 |



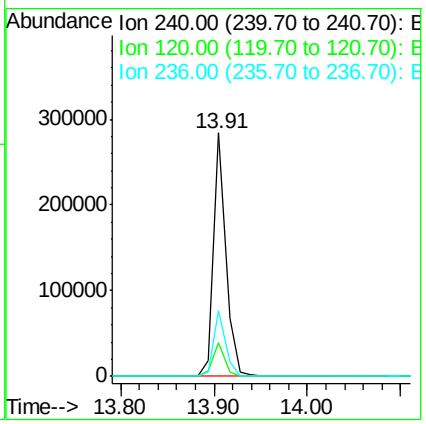


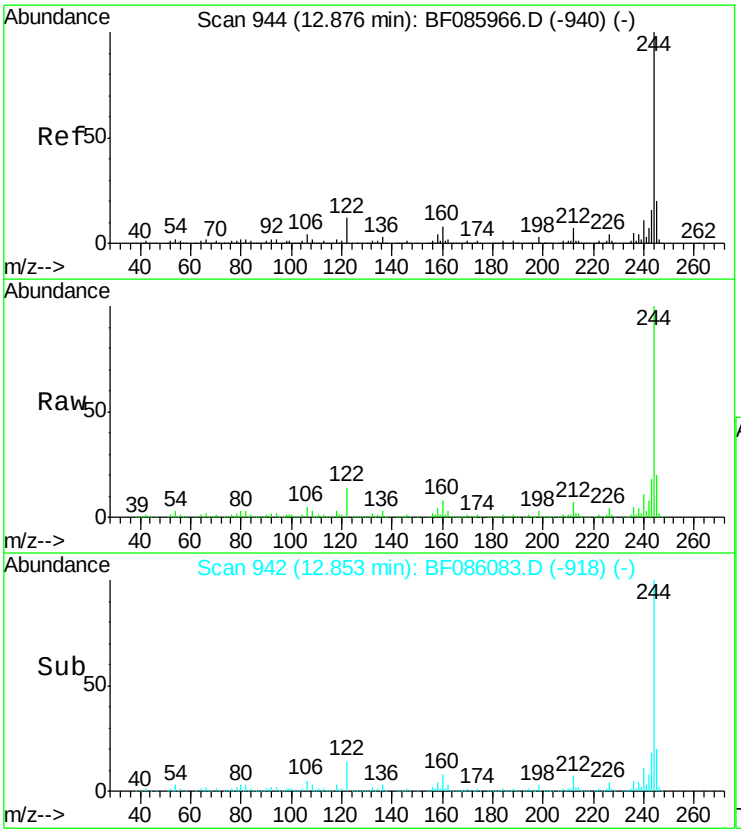

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.91 min Scan# 1034
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:240 Resp: 261510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.0 | 13.8 | 20.8 |
| 236 | 27.2 | 20.6 | 30.8 |

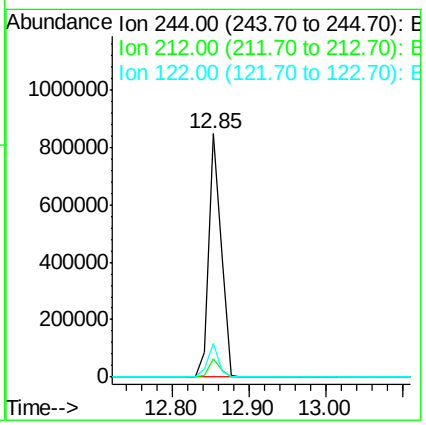


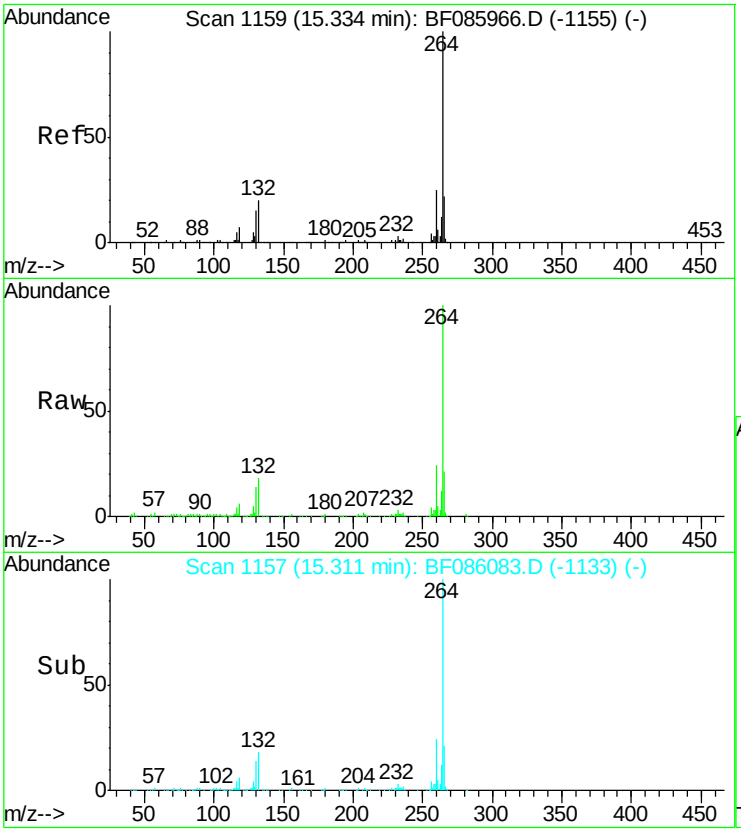




#78
Terphenyl-d14
Concen: 83.61 ng
RT: 12.85 min Scan# 942
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

Tgt Ion:244 Resp: 930202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.5 | 6.1 | 9.1 |
| 122 | 14.0 | 10.2 | 15.4 |






#86
Perylene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF086083.D
Acq: 5 Apr 2016 19:36

**Instrument :**
BNA_F
**ClientSampleId :**
51-35-REEDER-DISCHARGE

Tgt Ion:264 Resp: 204703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.3 | 19.4 | 29.2 |
| 265 | 20.6 | 17.2 | 25.8 |