Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061217\
Data File : BF095892.D
Acq On : 13 Jun 2017 2:03
Operator : SJ/MA
Sample : I3591-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
mohammad
6/13/2017 4:10:59 PM

Quant Time: Jun 13 07:09:20 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 05 16:15:31 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.35 | 152 | 65414 | 20.00 | ng | | -0.05 |
| 21) Naphthalene-d8 | 9.38 | 136 | 276929 | 20.00 | ng | | -0.05 |
| 38) Acenaphthene-d10 | 12.20 | 164 | 134531 | 20.00 | ng | | -0.05 |
| 63) Phenanthrene-d10 | 14.60 | 188 | 232411 | 20.00 | ng | | -0.05 |
| 75) Chrysene-d12 | 18.32 | 240 | 156901 | 20.00 | ng | | -0.04 |
| 86) Perylene-d12 | 19.99 | 264 | 123609 | 20.00 | ng | | -0.04 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.24 | 112 | 470141 | 114.52 | ng | | -0.05 |
| 7) Phenol-d6 | 6.91 | 99 | 580707 | 118.16 | ng | | -0.05 |
| 23) Nitrobenzene-d5 | 8.27 | 82 | 338887 | 76.00 | ng | | -0.05 |
| 41) 2,4,6-Tribromophenol | 13.50 | 330 | 122454 | 102.88 | ng | | -0.05 |
| 44) 2-Fluorobiphenyl | 11.16 | 172 | 472650 | 48.89 | ng | | -0.06 |
| 78) Terphenyl-d14 | 16.97 | 244 | 347121 | 54.90 | ng | | -0.04 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 9.42 | 128 | 35103 | 2.526 | ng | | 99 |
| 49) Dimethylphthalate | 11.86 | 163 | 91176 | 8.926 | ng | | 98 |
| 51) Acenaphthene | 12.26 | 154 | 44305 | 5.178 | ng | | 98 |
| 54) Dibenzofuran | 12.55 | 168 | 62705 | 5.207 | ng | | 98 |
| 70) Phenanthrene | 14.63 | 178 | 220852 | 16.469 | ng | | 99 |
| 71) Anthracene | 14.73 | 178 | 73625m | 5.259 | ng | | |
| 72) Carbazole | 15.03 | 167 | 104489 | 7.659 | ng | | 99 |
| 74) Fluoranthene | 16.42 | 202 | 175056 | 13.189 | ng | | 98 |
| 77) Pyrene | 16.72 | 202 | 144862 | 12.374 | ng | # | 95 |
| 80) Benzo(a)anthracene | 18.31 | 228 | 29707 | 3.257 | ng | | 97 |
| 82) Chrysene | 18.36 | 228 | 31153 | 3.417 | ng | | 97 |
| 87) Benzo(b)fluoranthene | 19.60 | 252 | 25012 | 3.232 | ng | # | 94 |
| 89) Benzo(a)pyrene | 19.94 | 252 | 15981 | 2.246 | ng | # | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061217\
Data File : BF095892.D
Acq On : 13 Jun 2017 2:03
Operator : SJ/MA
Sample : I3591-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 13 07:09:20 2017
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**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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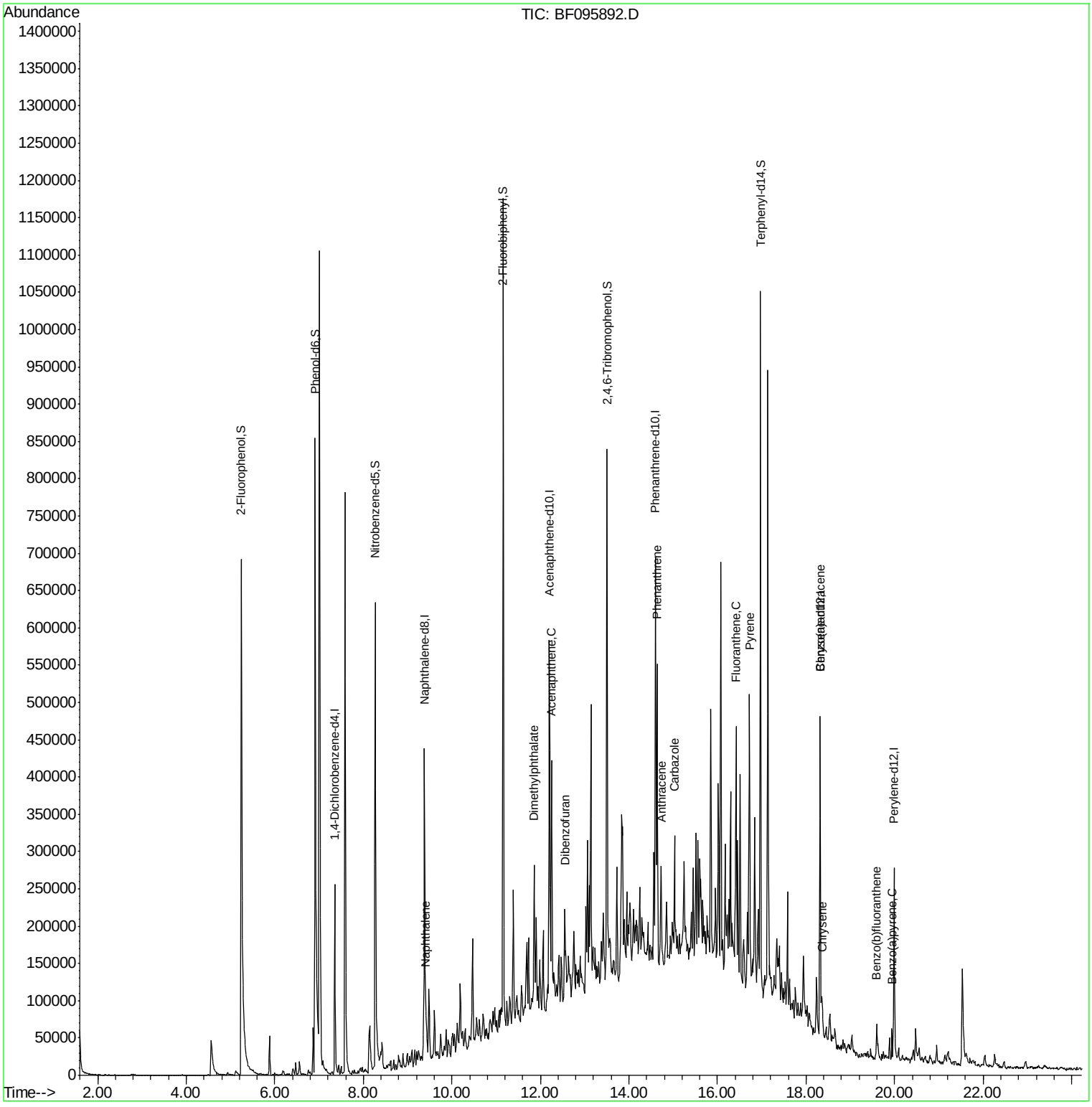
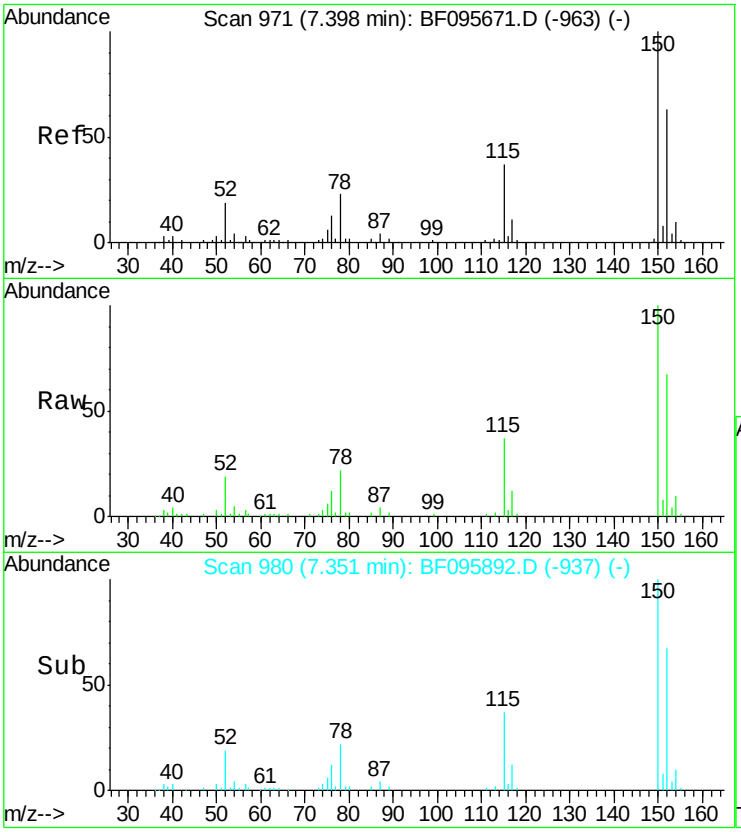
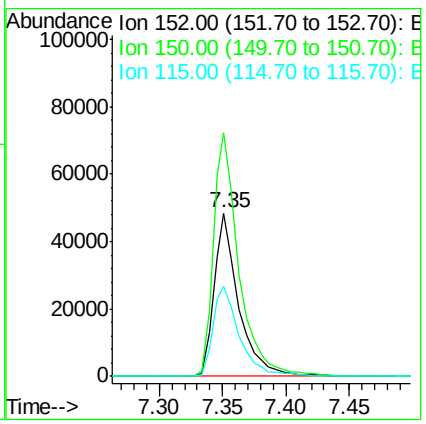





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.35 min Scan# 980
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:152 Resp: 65414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 149.2 | 126.2 | 189.2 |
| 115 | 55.6 | 52.2 | 78.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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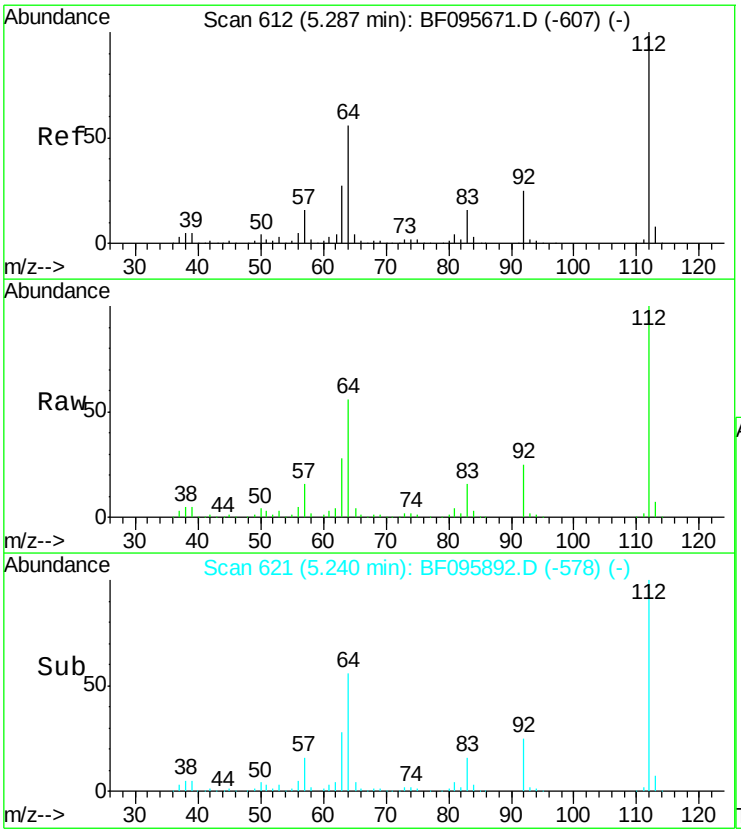
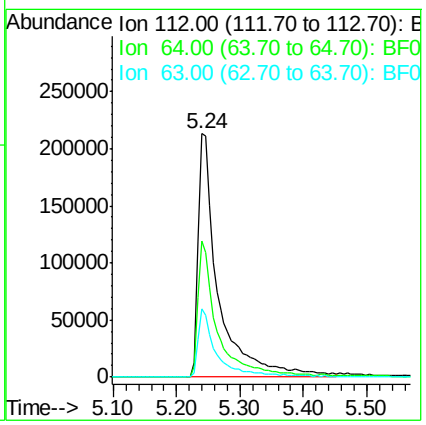
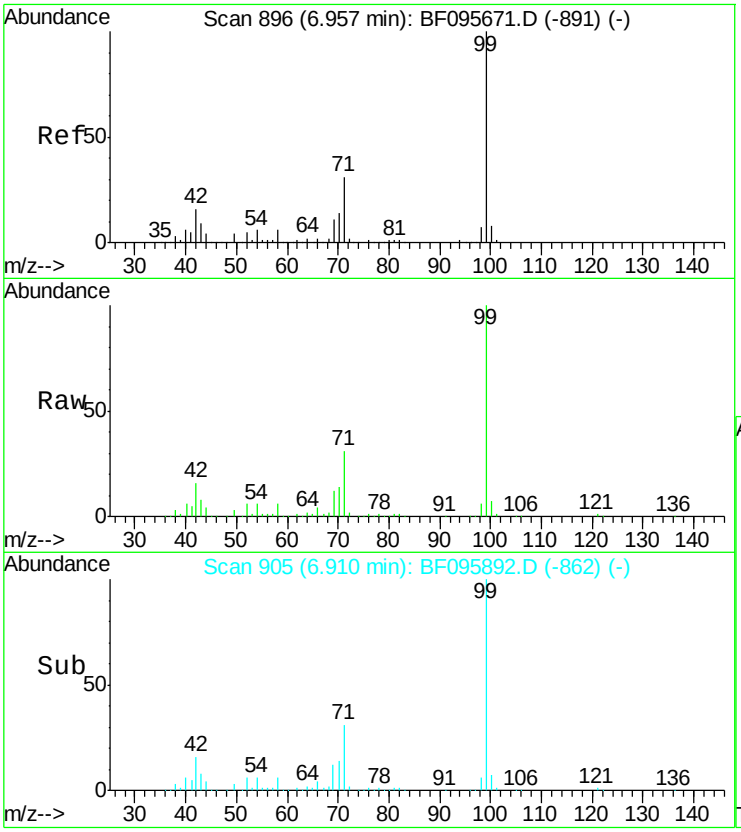



#5
2-Fluorophenol
Concen: 114.524 ng
RT: 5.24 min Scan# 621
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:112 Resp: 470141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.7 | 46.0 | 69.0 |
| 63 | 27.9 | 23.4 | 35.0 |

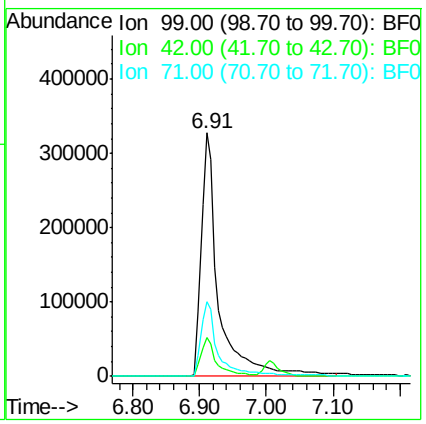





#7
Phenol-d6
Concen: 118.160 ng
RT: 6.91 min Scan# 905
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion: 99 Resp: 580707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.8 | 13.5 | 20.3 |
| 71 | 30.6 | 24.5 | 36.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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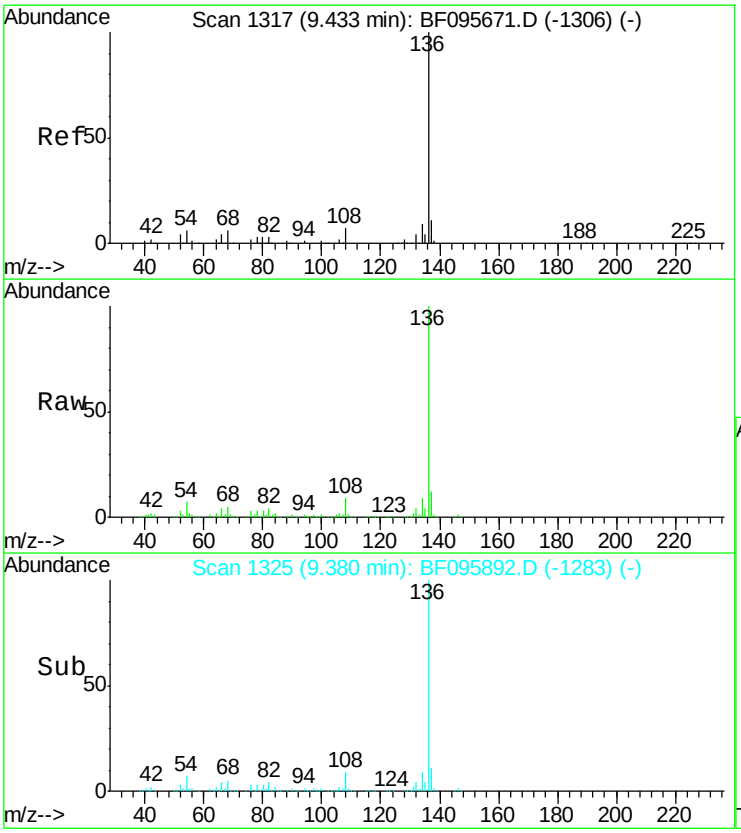
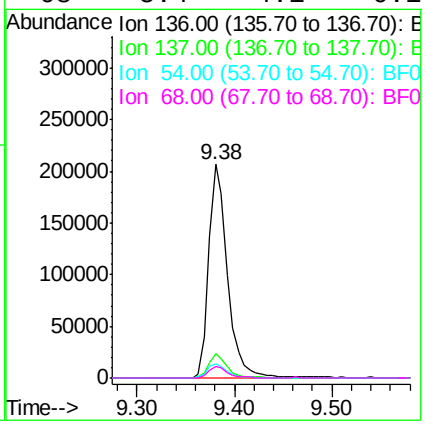
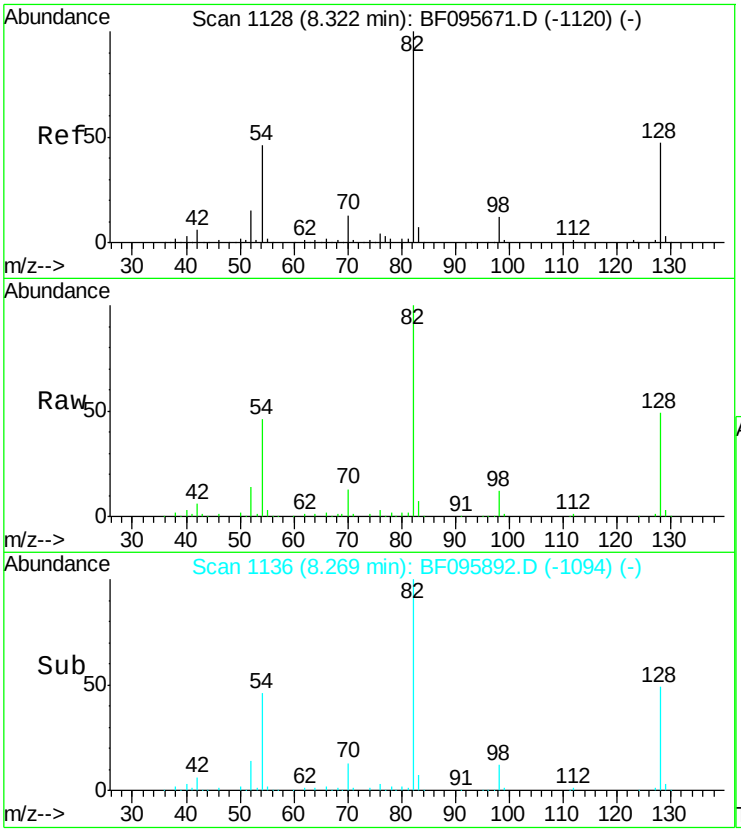



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 9.38 min Scan# 1325
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:136 Resp: 276929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.6 | 8.5 | 12.7 |
| 54 | 6.9 | 4.9 | 7.3 |
| 68 | 5.4 | 4.1 | 6.1 |

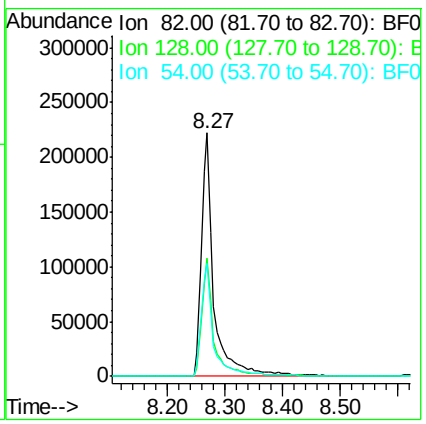





#23
Nitrobenzene-d5
Concen: 76.000 ng
RT: 8.27 min Scan# 1136
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion: 82 Resp: 338887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 48.7 | 34.0 | 51.0 |
| 54 | 46.4 | 42.2 | 63.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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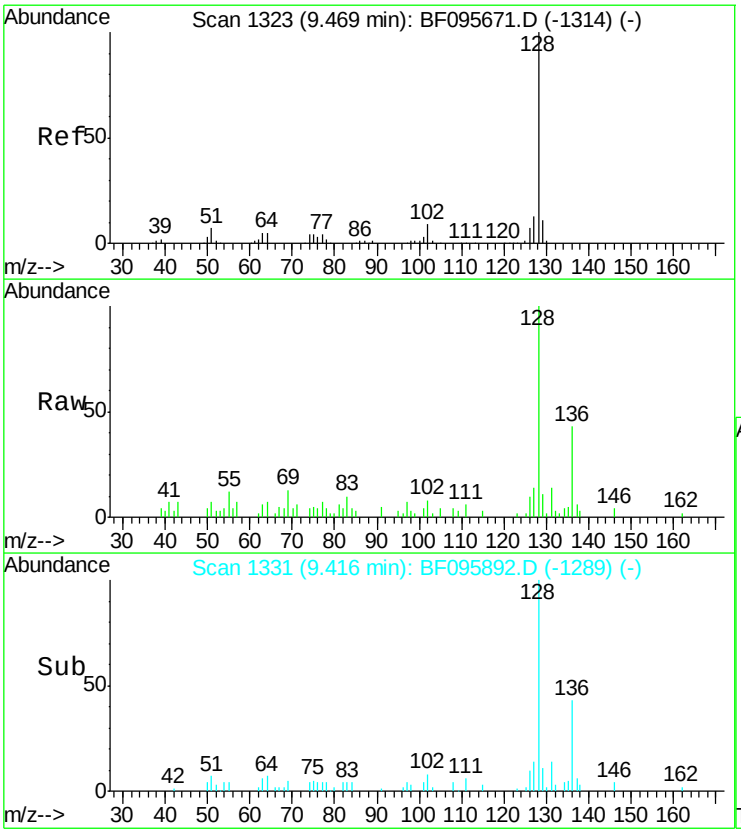
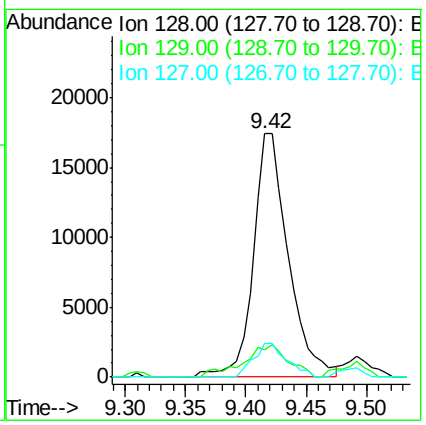
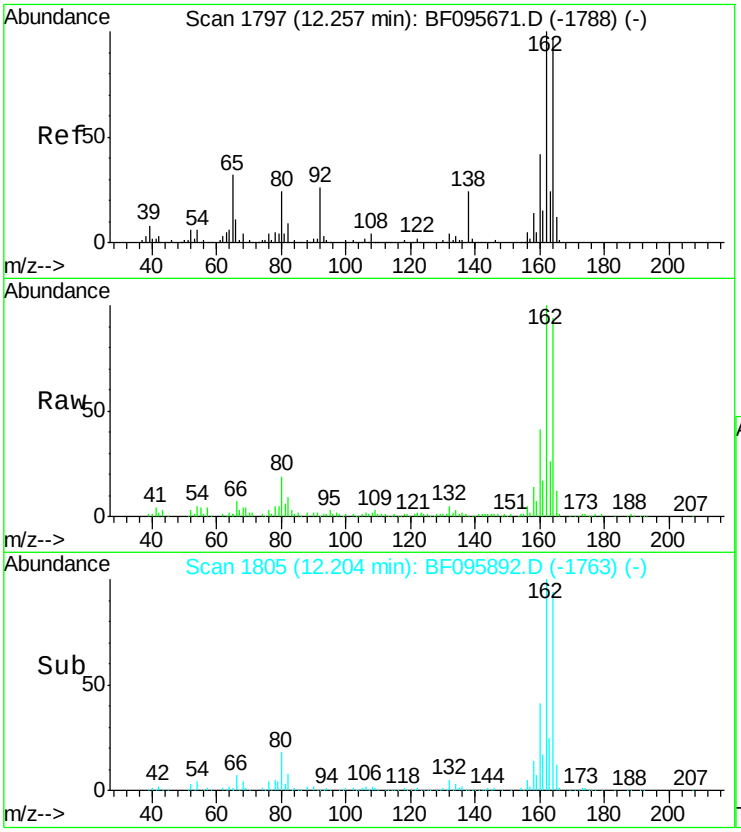



#31
Naphthalene
Concen: 2.526 ng
RT: 9.42 min Scan# 1331
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:128 Resp: 35103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.0 | 13.6 |
| 127 | 13.9 | 10.8 | 16.2 |

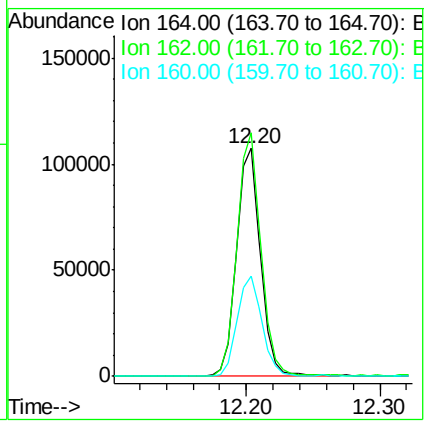





#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 12.20 min Scan# 1805
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:164 Resp: 134531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.9 | 82.6 | 123.8 |
| 160 | 43.7 | 36.2 | 54.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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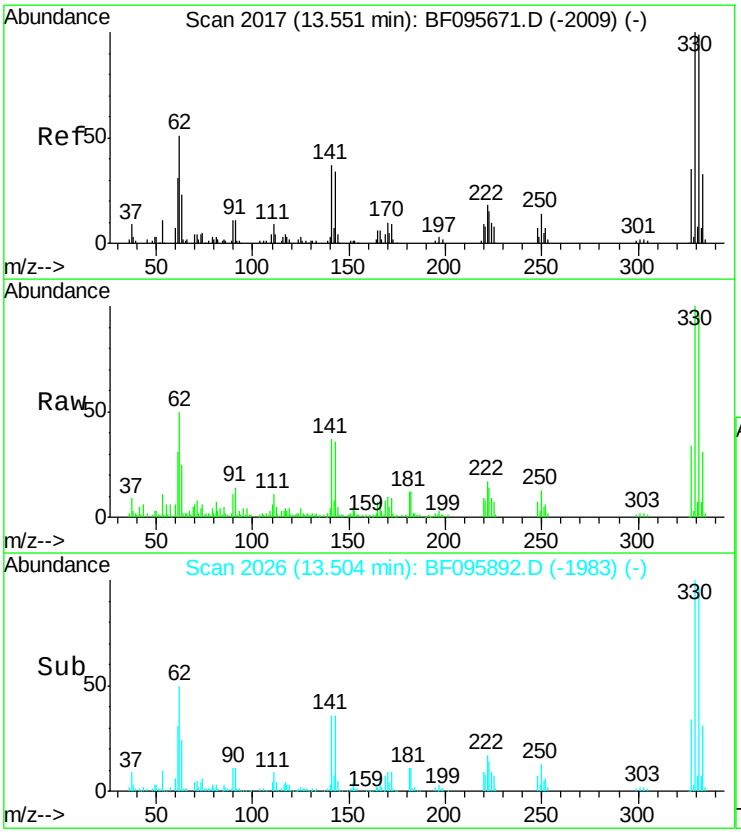
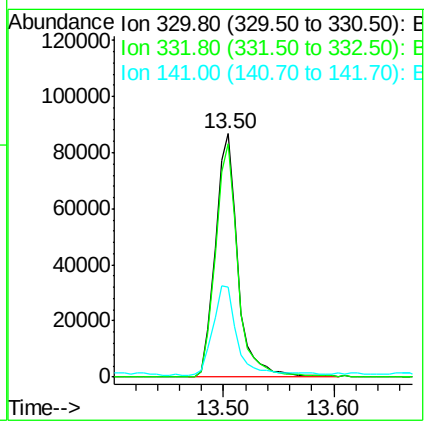
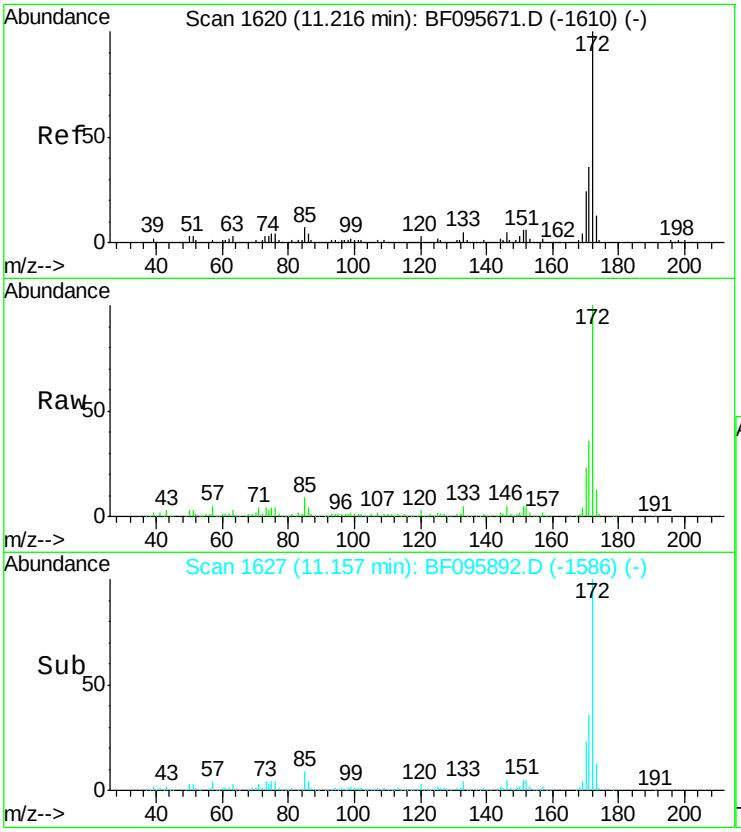



#41
2,4,6-Tribromophenol
Concen: 102.878 ng
RT: 13.50 min Scan# 2026
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:330 Resp: 122454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.5 | 76.6 | 115.0 |
| 141 | 39.1 | 31.4 | 47.2 |

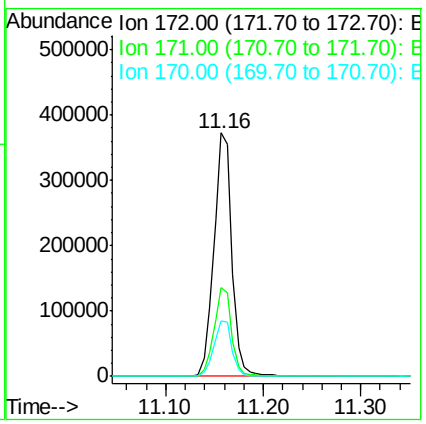





#44
2-Fluorobiphenyl
Concen: 48.890 ng
RT: 11.16 min Scan# 1627
Delta R.T. -0.06 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:172 Resp: 472650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.2 | 29.6 | 44.4 |
| 170 | 23.0 | 19.8 | 29.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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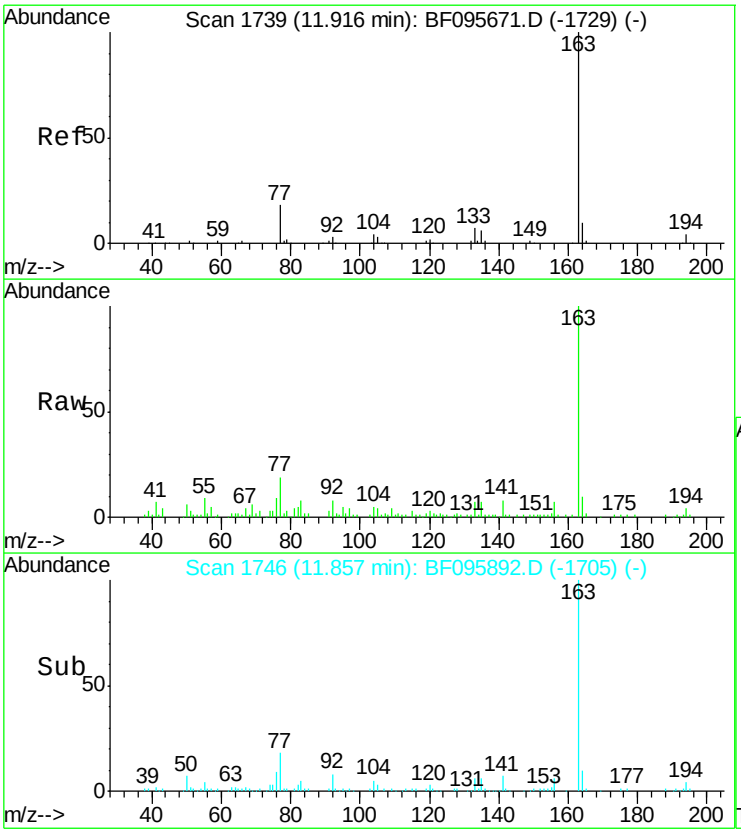
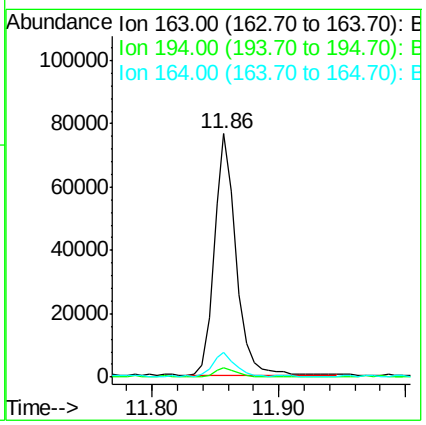
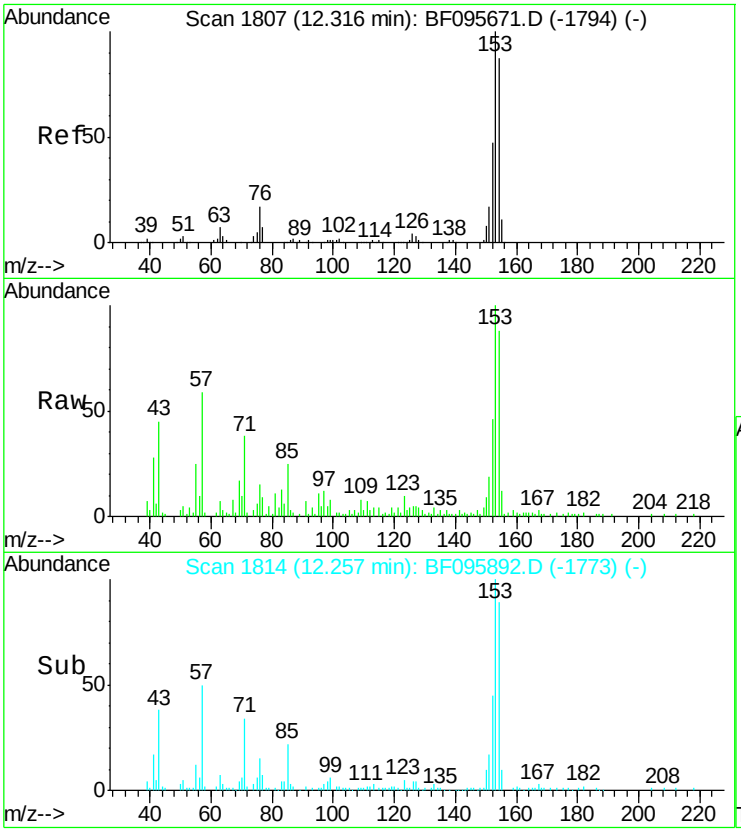



#49
Dimethylphthalate
Concen: 8.926 ng
RT: 11.86 min Scan# 1746
Delta R.T. -0.06 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:163 Resp: 91176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 2.6 | 4.0 |
| 164 | 10.0 | 8.4 | 12.6 |

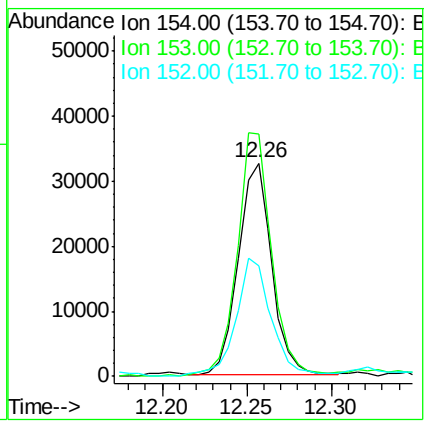





#51
Acenaphthene
Concen: 5.178 ng
RT: 12.26 min Scan# 1814
Delta R.T. -0.06 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:154 Resp: 44305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.8 | 90.5 | 135.7 |
| 152 | 51.8 | 43.6 | 65.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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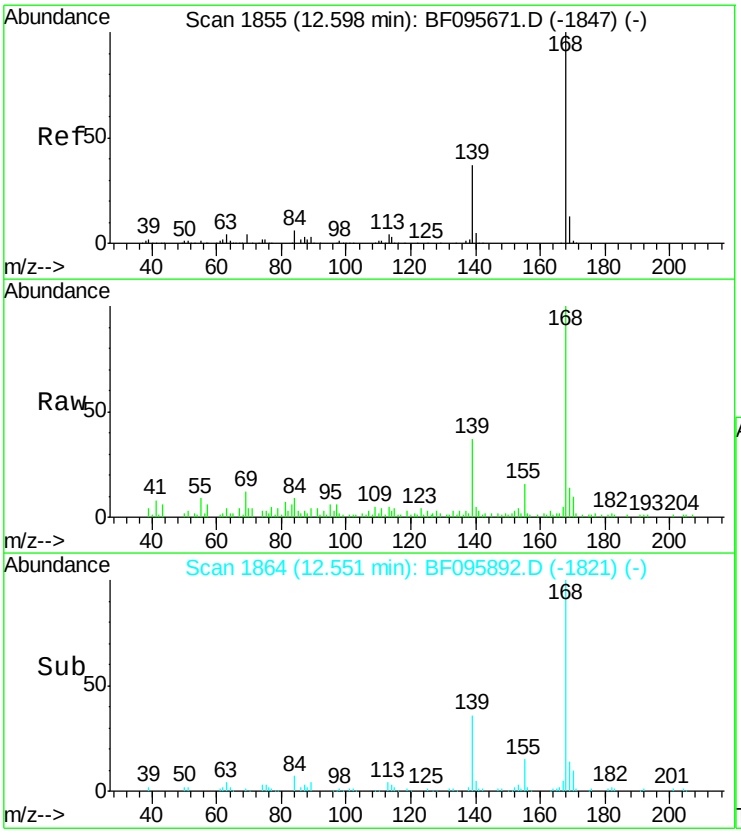
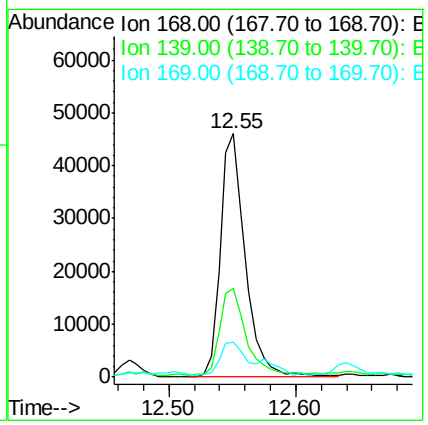
6/13/2017 4:10:59 PM

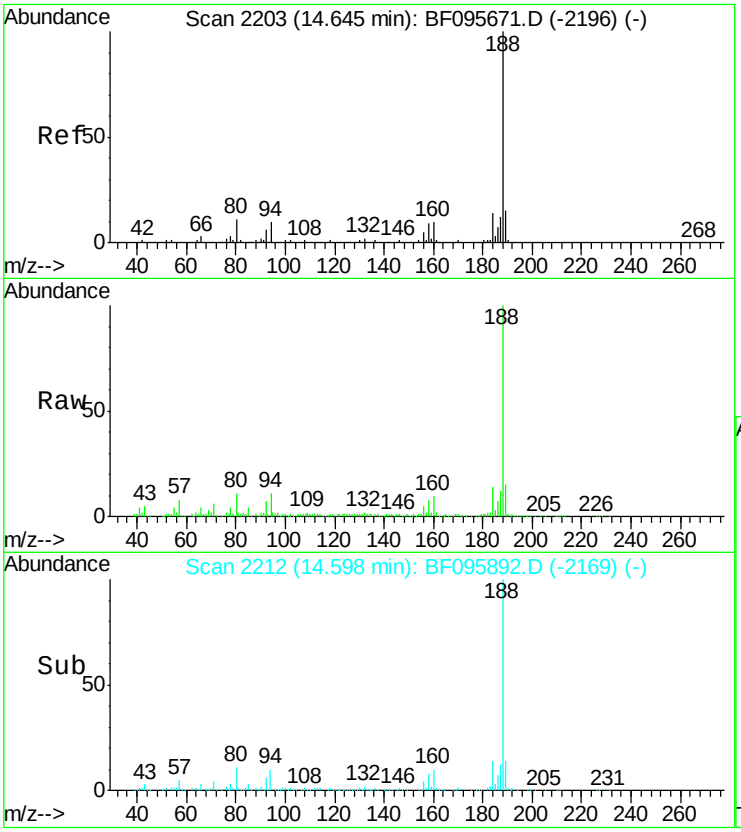



#54
Dibenzofuran
Concen: 5.207 ng
RT: 12.55 min Scan# 1864
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:168 Resp: 62705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 36.6 | 30.6 | 45.8 |
| 169 | 14.1 | 10.8 | 16.2 |

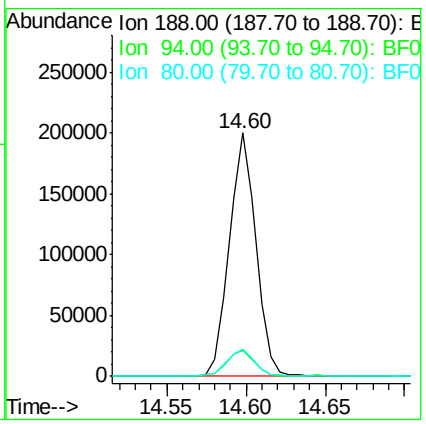





#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 14.60 min Scan# 2212
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:188 Resp: 232411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.7 | 9.4 | 14.2 |
| 80 | 11.0 | 10.2 | 15.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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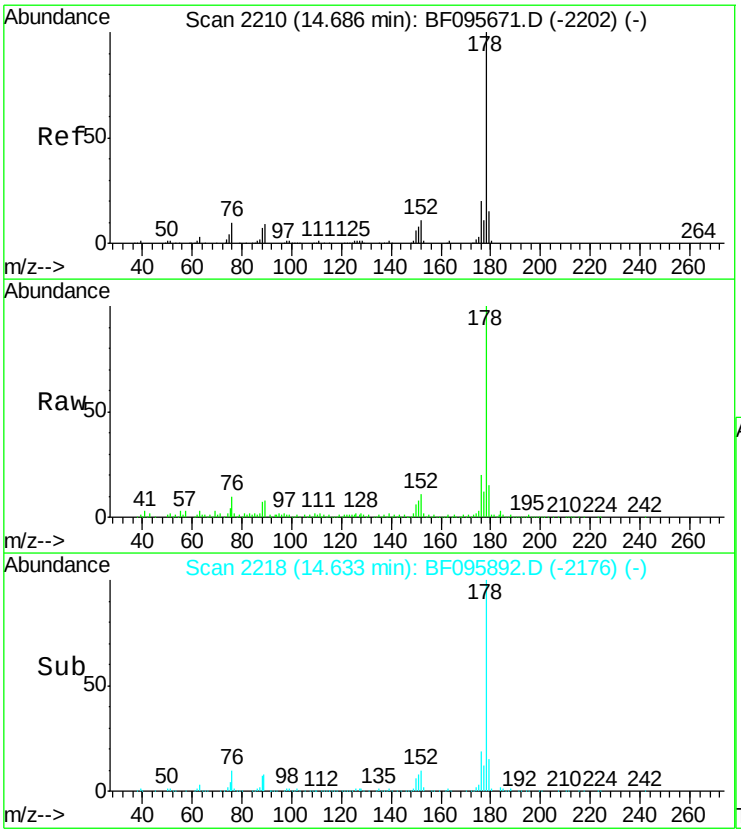
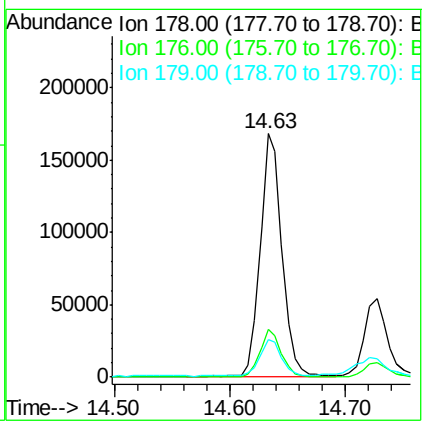
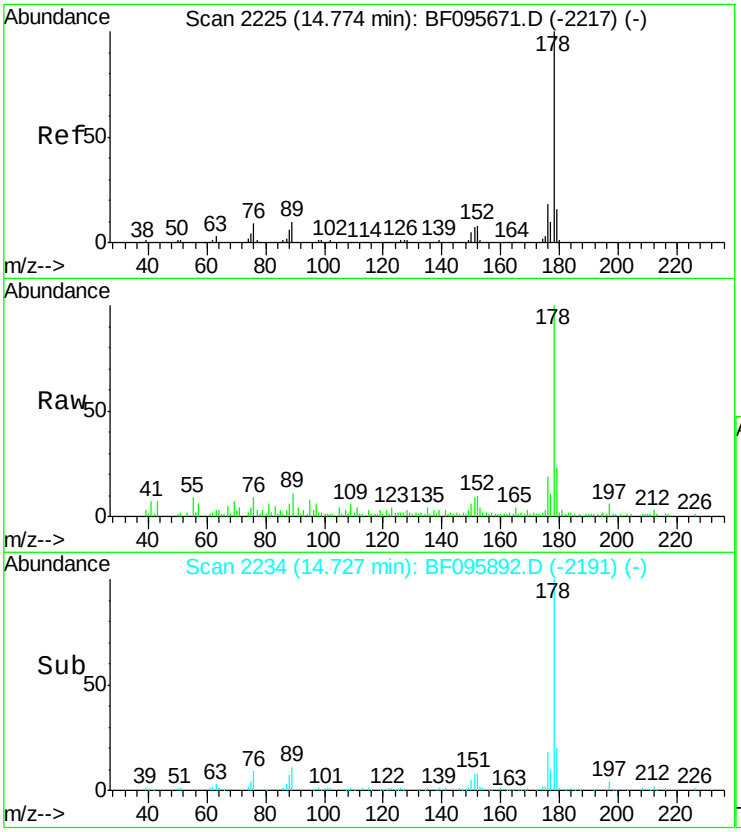



#70
Phenanthrene
Concen: 16.469 ng
RT: 14.63 min Scan# 2218
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:178 Resp: 220852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 16.2 | 24.4 |
| 179 | 15.4 | 12.6 | 19.0 |






#71
Anthracene
Concen: 5.259 ng m
RT: 14.73 min Scan# 2234
Delta R.T. -0.05 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:178 Resp: 73625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.8 | 23.8 |
| 179 | 23.0 | 12.7 | 19.1# |

**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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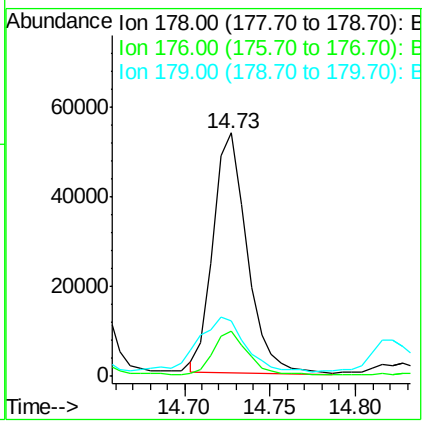
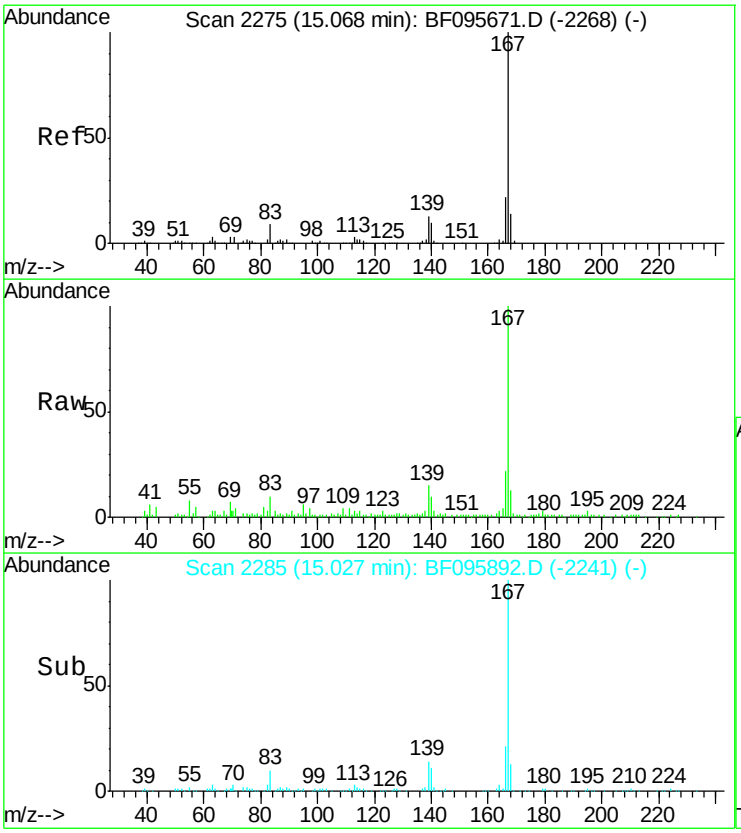
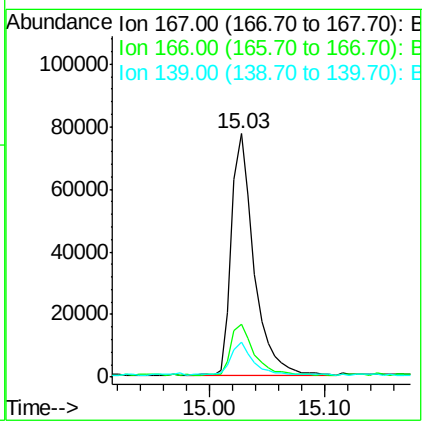


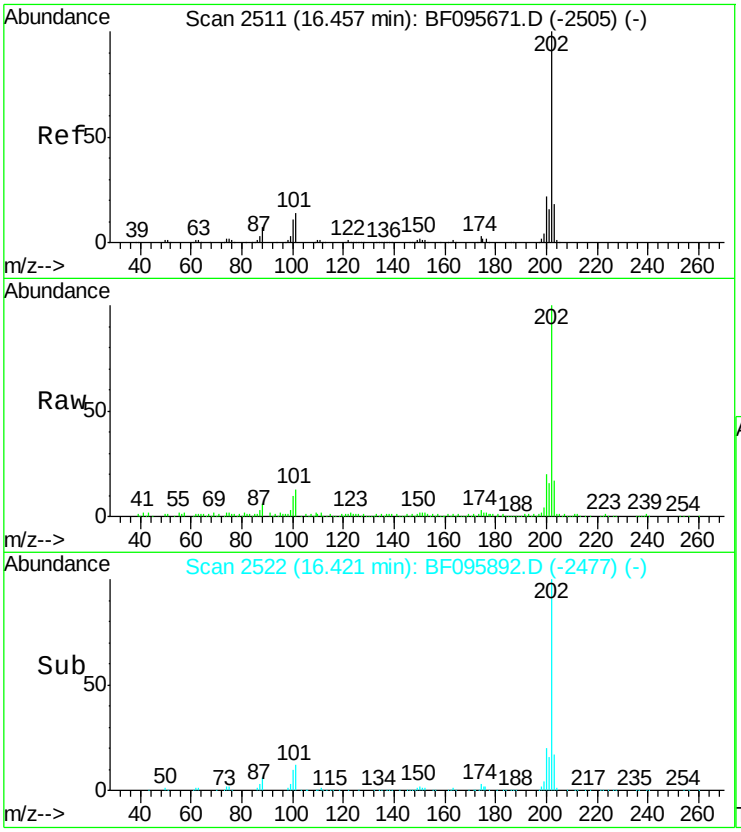




#72
Carbazole
Concen: 7.659 ng
RT: 15.03 min Scan# 2285
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:167 Resp: 104489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 18.1 | 27.1 |
| 139 | 14.5 | 11.7 | 17.5 |

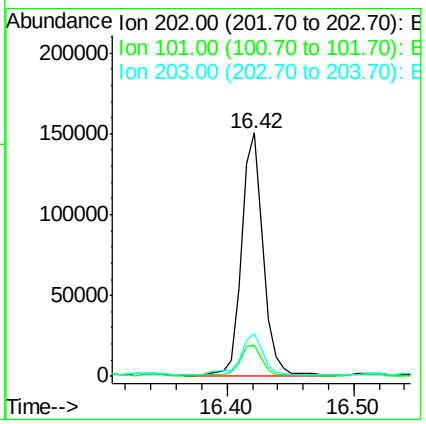





#74
Fluoranthene
Concen: 13.189 ng
RT: 16.42 min Scan# 2522
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:202 Resp: 175056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.6 | 0.0 | 33.2 |
| 203 | 17.3 | 0.0 | 38.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

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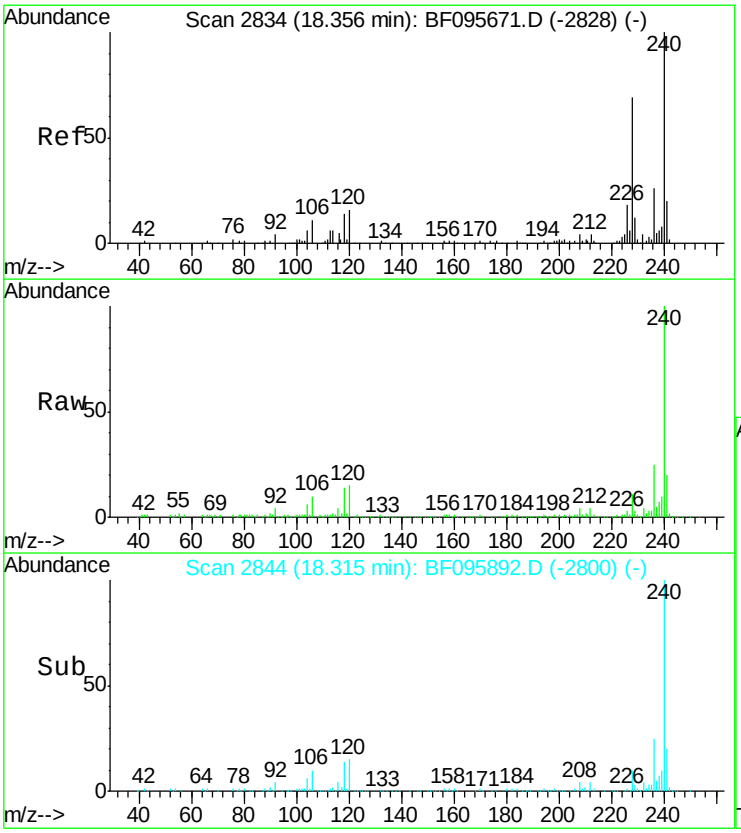
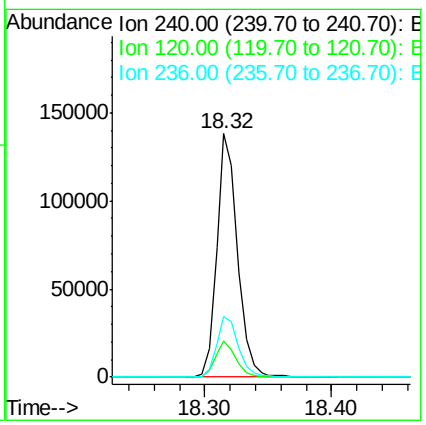
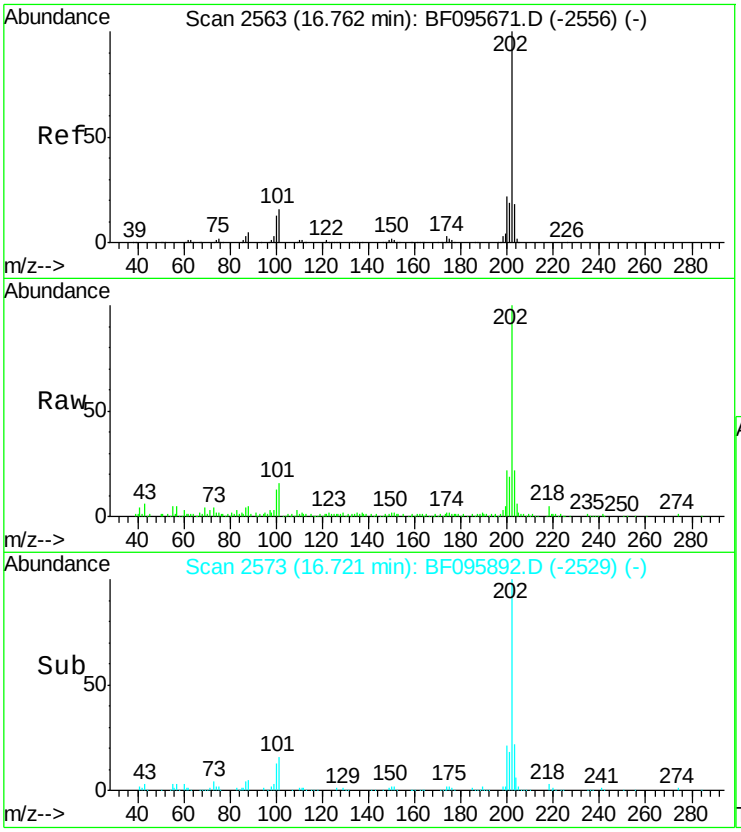



#75
Chrysene-d12
Concen: 20.000 ng
RT: 18.32 min Scan# 2844
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:240 Resp: 156901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.9 | 5.8 | 8.8# |
| 236 | 24.9 | 20.5 | 30.7 |

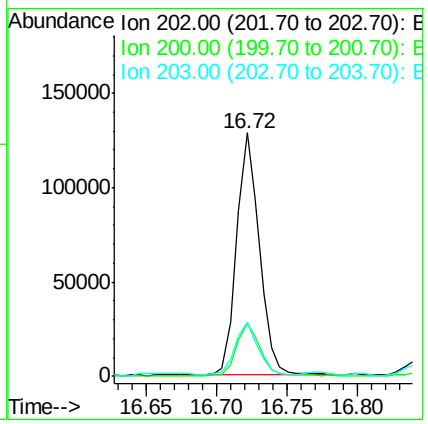





#77
Pyrene
Concen: 12.374 ng
RT: 16.72 min Scan# 2573
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:202 Resp: 144862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.6 | 17.6 | 26.4 |
| 203 | 22.2 | 14.4 | 21.6# |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

**Manual Integrations APPROVED**
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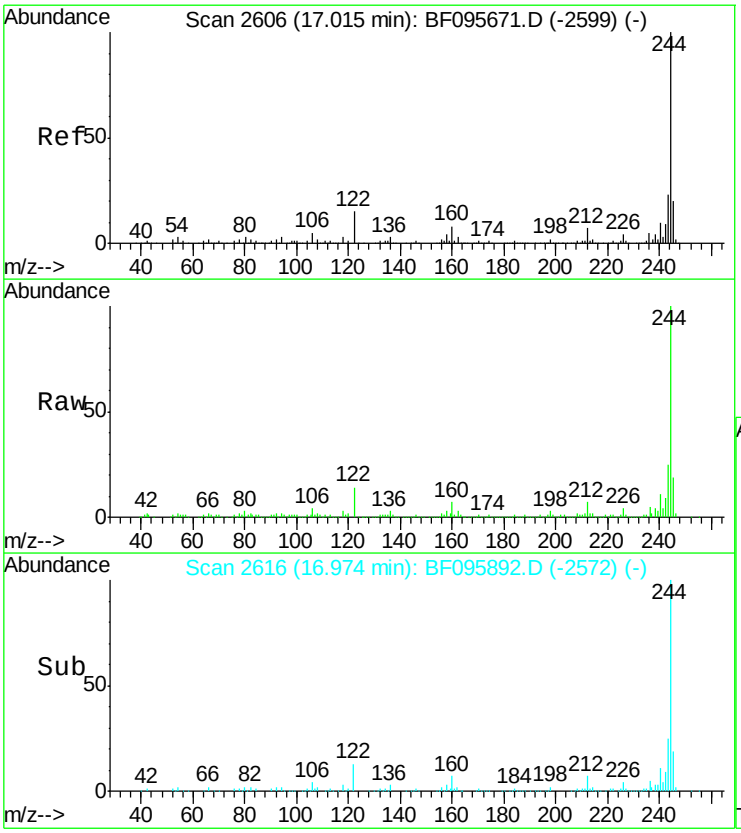
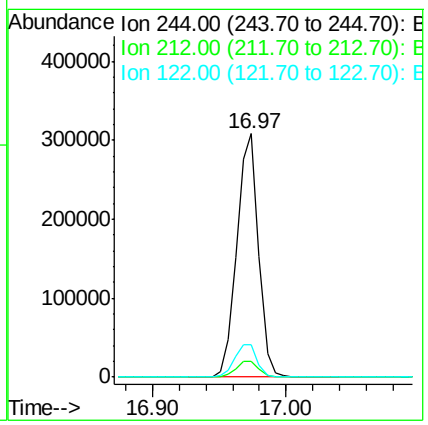
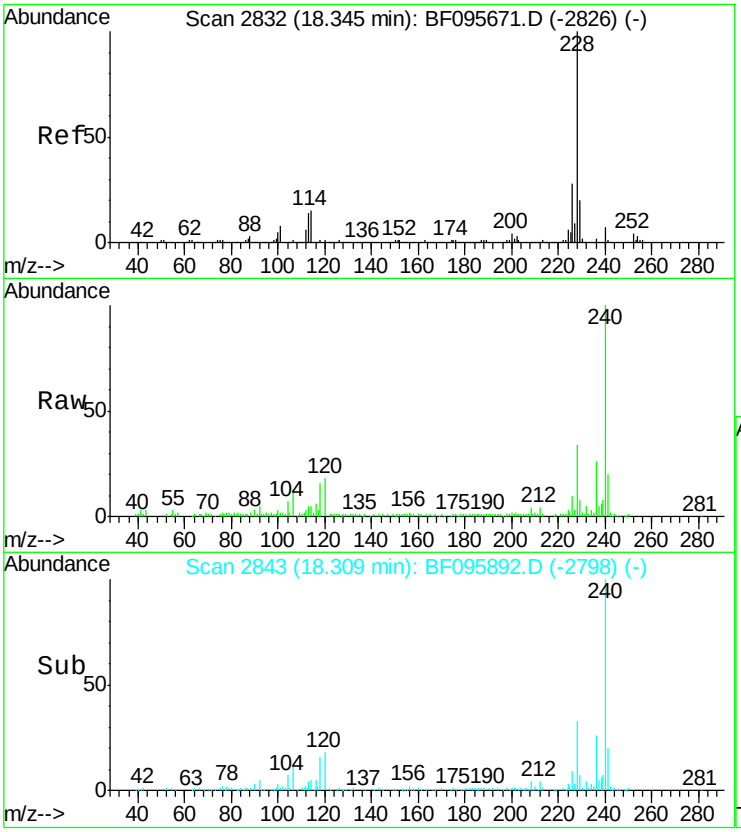



#78
Terphenyl-d14
Concen: 54.905 ng
RT: 16.97 min Scan# 2616
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:244 Resp: 347121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.7 | 6.0 | 9.0 |
| 122 | 13.6 | 10.3 | 15.5 |

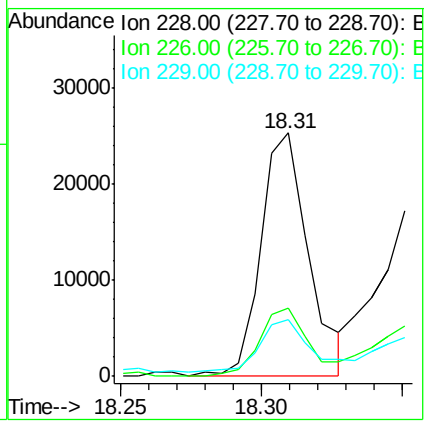





#80
Benzo(a)anthracene
Concen: 3.257 ng
RT: 18.31 min Scan# 2843
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:228 Resp: 29707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.2 | 22.6 | 33.8 |
| 229 | 23.3 | 16.3 | 24.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

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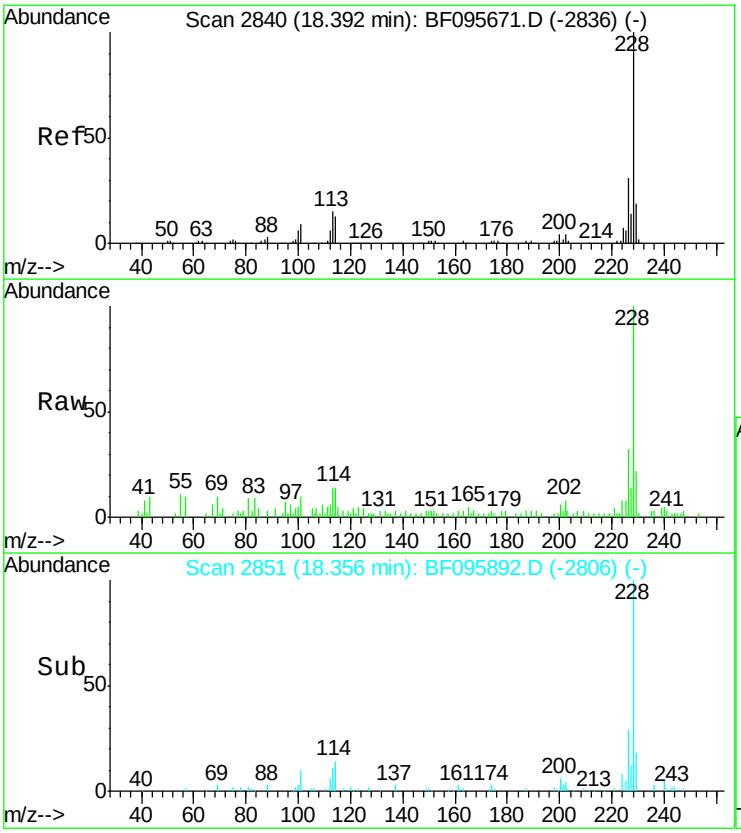
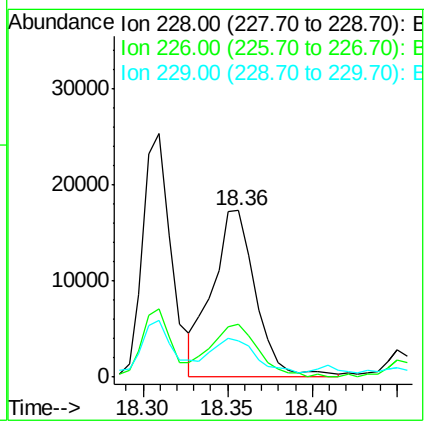
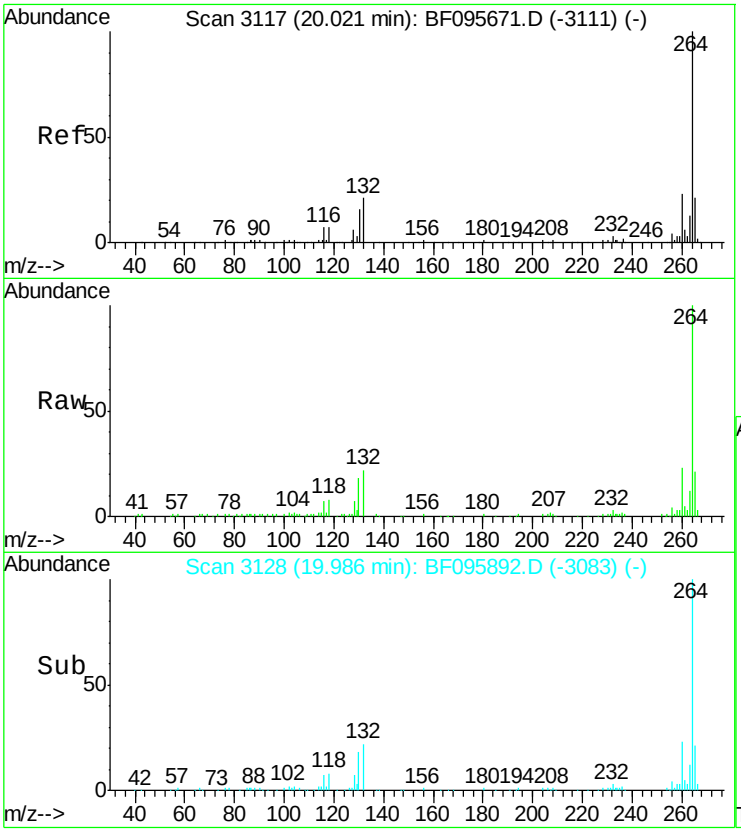



#82
Chrysene
Concen: 3.417 ng
RT: 18.36 min Scan# 2851
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:228 Resp: 31153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.8 | 24.9 | 37.3 |
| 229 | 21.9 | 15.8 | 23.6 |






#86
Perylene-d12
Concen: 20.000 ng
RT: 19.99 min Scan# 3128
Delta R.T. -0.04 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:264 Resp: 123609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.5 | 19.5 | 29.3 |
| 265 | 21.3 | 17.2 | 25.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

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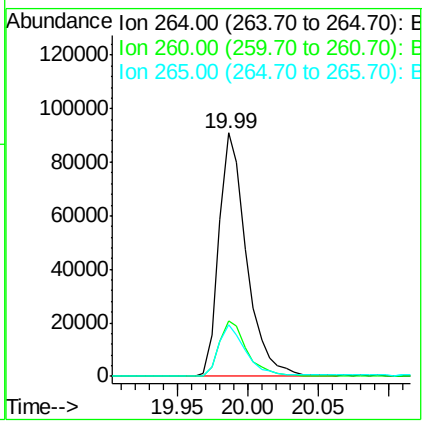
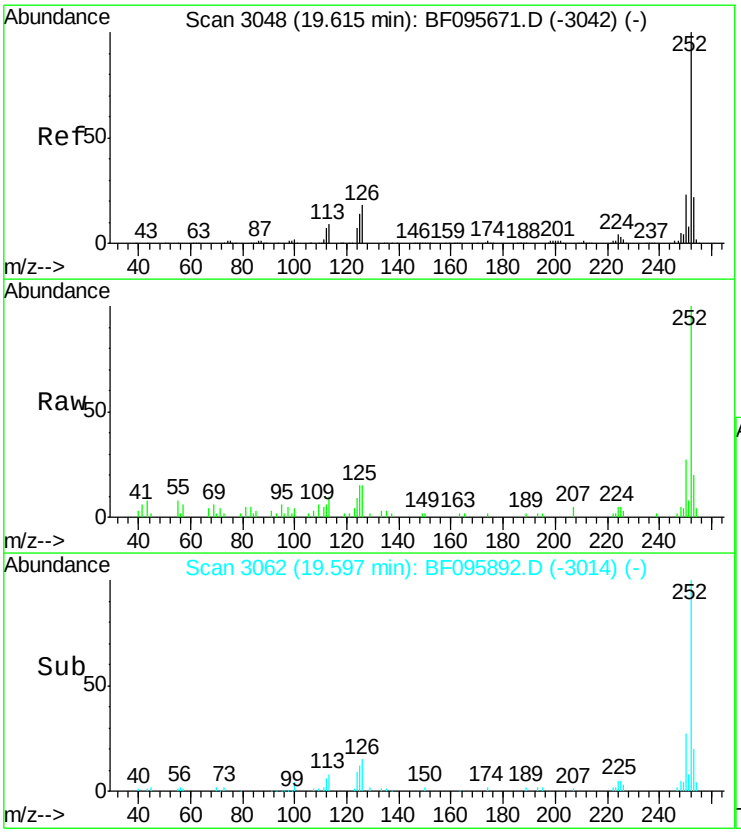
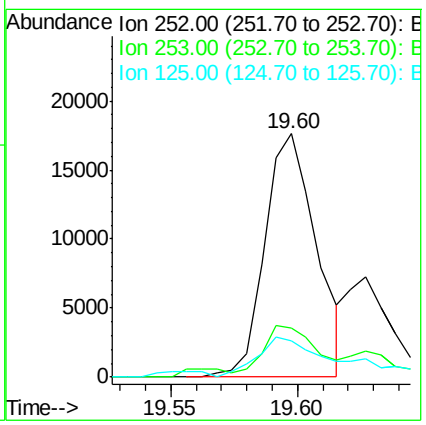


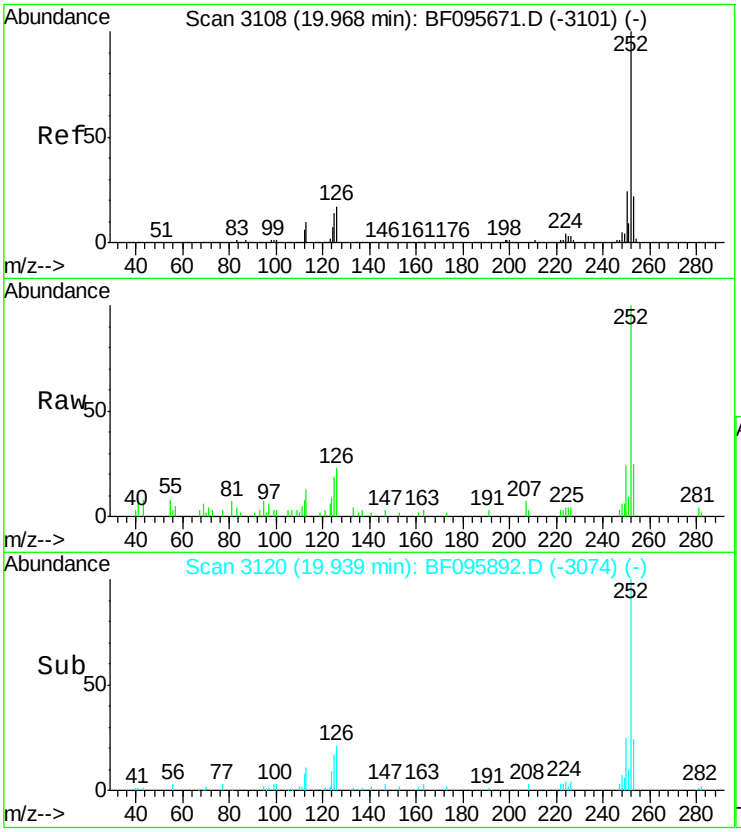




#87
Benzo(b)fluoranthene
Concen: 3.232 ng
RT: 19.60 min Scan# 3062
Delta R.T. -0.02 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:252 Resp: 25012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.1 | 18.1 | 27.1 |
| 125 | 14.8 | 9.8 | 14.8# |

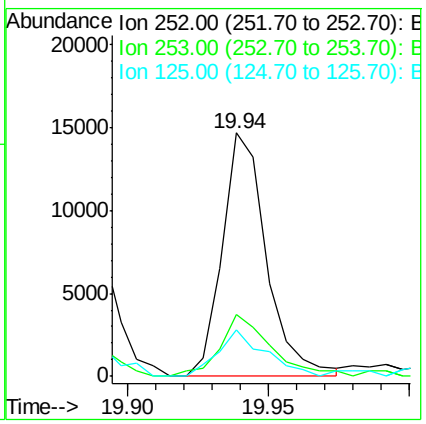





#89
Benzo(a)pyrene
Concen: 2.246 ng
RT: 19.94 min Scan# 3120
Delta R.T. -0.03 min
Lab File: BF095892.D
Acq: 13 Jun 2017 2:03

Tgt Ion:252 Resp: 15981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.2 | 17.5 | 26.3 |
| 125 | 19.2 | 11.0 | 16.4# |




**Instrument :**
BNA_F
**ClientSampleId :**
E1-R9-BASE

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