Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\
Data File : BF112090.D
Acq On : 17 Jan 2019 15:38
Operator : JU/SJ
Sample : K1167-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
Sohil
1/18/2019 11:45:48 AM

Quant Time: Jan 18 00:31:59 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 16 18:22:05 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.86 | 152 | 314398 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.15 | 136 | 1137607 | 20.00 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.90 | 164 | 513824 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.39 | 188 | 844913 | 20.00 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.03 | 240 | 716490 | 20.00 | ng | | 0.00 |
| 87) Perylene-d12 | 15.50 | 264 | 616314 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.50 | 112 | 2172971 | 125.45 | ng | | 0.01 |
| 7) Phenol-d6 | 6.51 | 99 | 2735337 | 126.21 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.42 | 82 | 1659013 | 100.75 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.69 | 330 | 665571 | 120.07 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.22 | 172 | 2689583 | 76.74 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.97 | 244 | 2414694 | 71.70 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 10) Phenol | 6.52 | 94 | 176399 | 7.448 | ng | # | 71 |
| 31) Naphthalene | 8.16 | 128 | 119679 | 2.313 | ng | | 99 |
| 49) Acenaphthylene | 9.76 | 152 | 176773 | 3.602 | ng | | 99 |
| 50) Dimethylphthalate | 9.61 | 163 | 304294 | 8.121 | ng | # | 95 |
| 71) Phenanthrene | 11.41 | 178 | 89465 | 2.104 | ng | | 98 |
| 75) Fluoranthene | 12.60 | 202 | 115494 | 2.573 | ng | | 99 |
| 78) Pyrene | 12.83 | 202 | 171668 | 3.632 | ng | | 96 |
| 81) Benzo(a)anthracene | 14.02 | 228 | 94494m | 2.300 | ng | | |
| 83) Chrysene | 14.05 | 228 | 114285m | 2.940 | ng | | |
| 88) Benzo(b)fluoranthene | 15.07 | 252 | 153697m | 4.393 | ng | | |
| 90) Benzo(a)pyrene | 15.43 | 252 | 81980 | 2.555 | ng | # | 96 |
| 92) Benzo(g,h,i)perylene | 17.42 | 276 | 58523 | 2.085 | ng | | 97 |

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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\
Data File : BF112090.D
Acq On : 17 Jan 2019 15:38
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Sample : K1167-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

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**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
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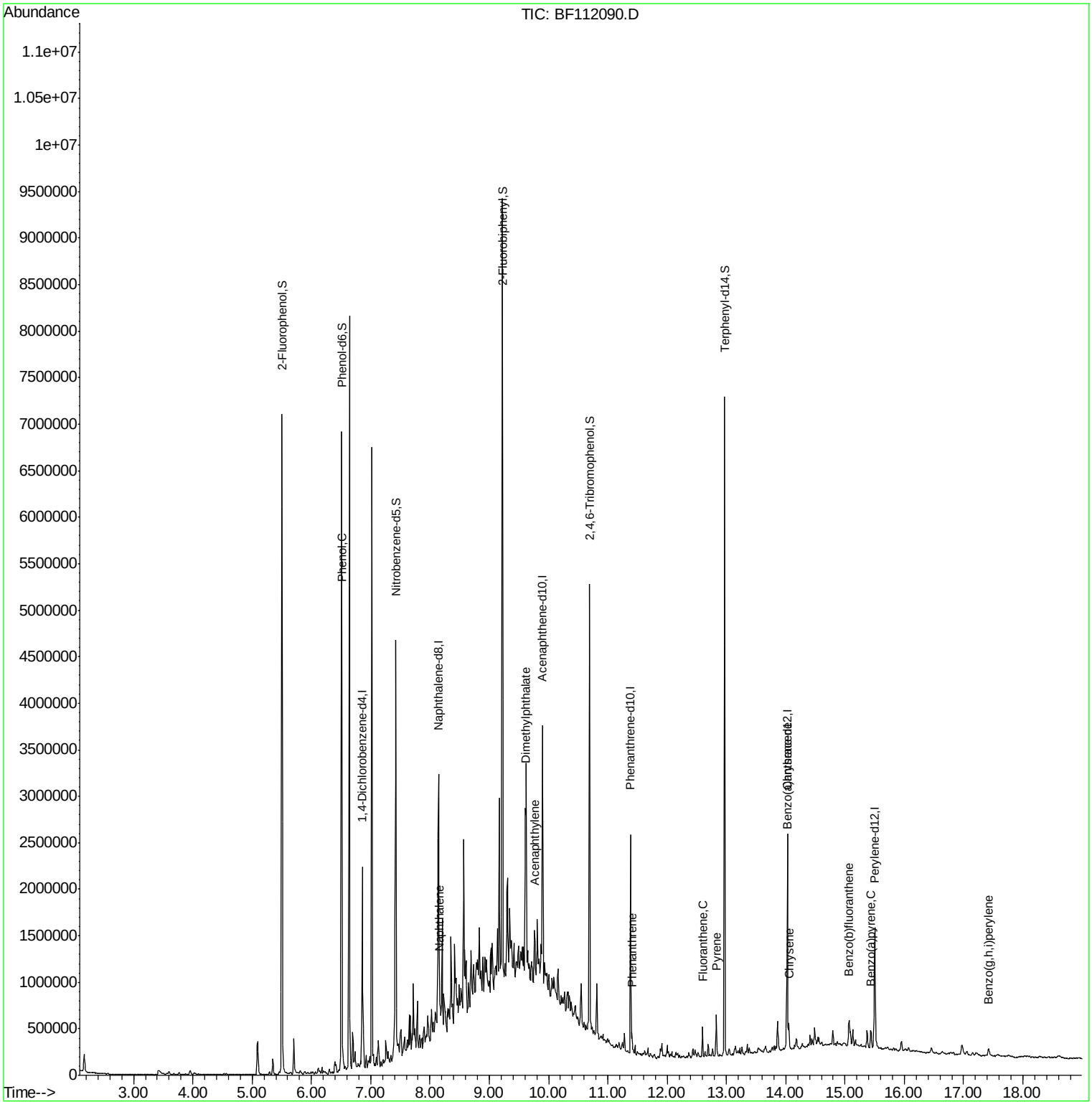
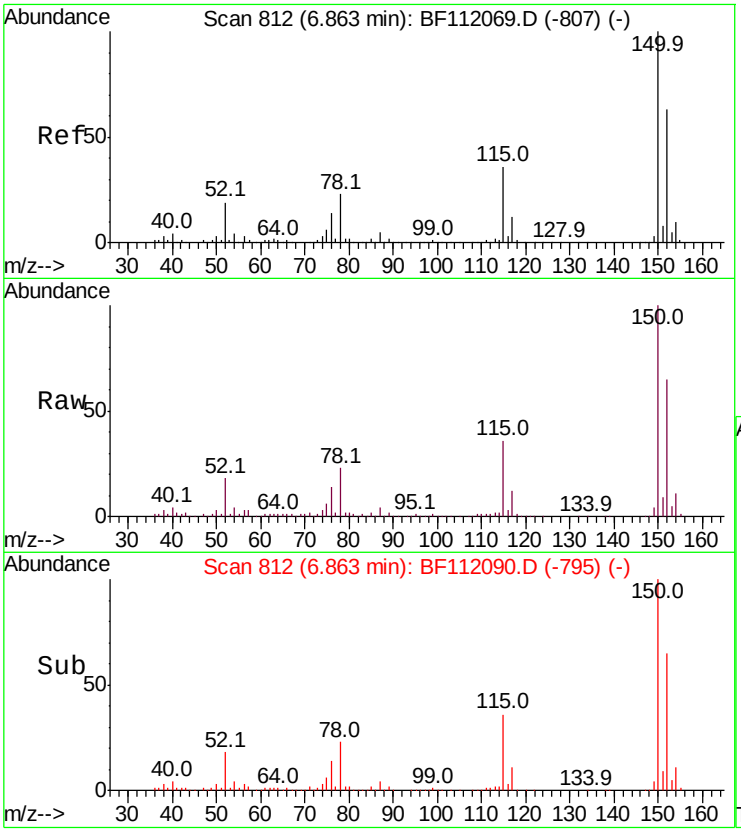
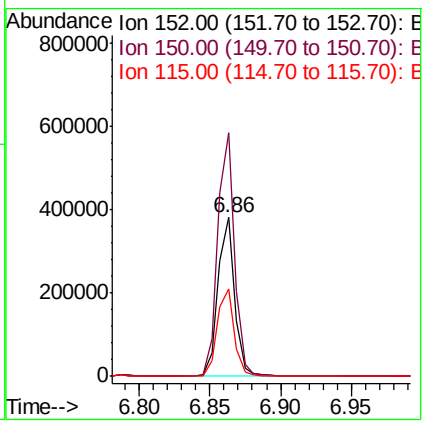





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:152 Resp: 314398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.3 | 127.4 | 191.0 |
| 115 | 55.4 | 45.5 | 68.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
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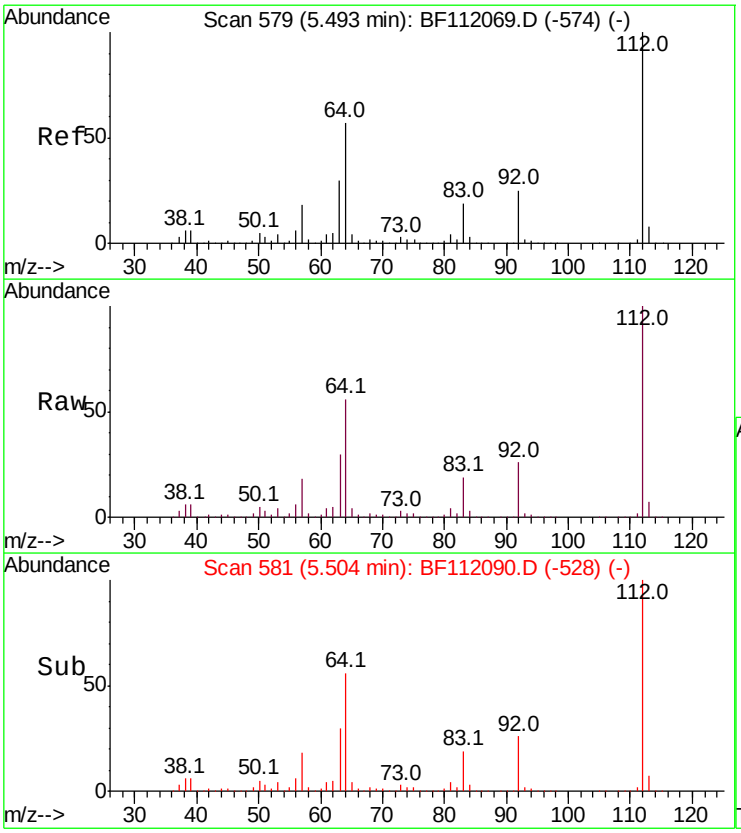
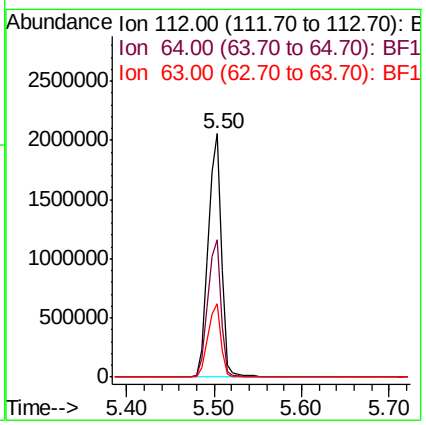
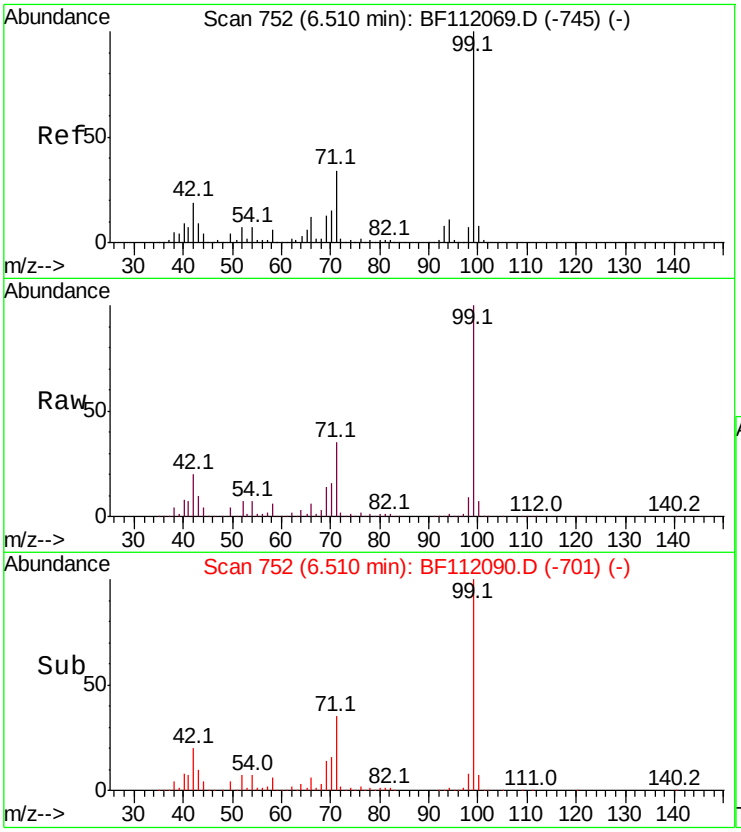



#5
2-Fluorophenol
Concen: 125.447 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:112 Resp: 2172971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 56.2 | 45.7 | 68.5 |
| 63 | 30.0 | 23.6 | 35.4 |

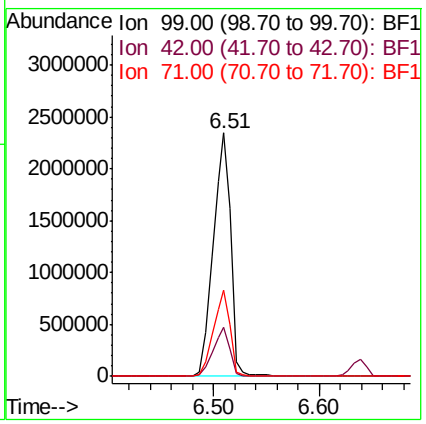





#7
Phenol-d6
Concen: 126.214 ng
RT: 6.51 min Scan# 752
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion: 99 Resp: 2735337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.1 | 15.1 | 22.7 |
| 71 | 35.1 | 26.9 | 40.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
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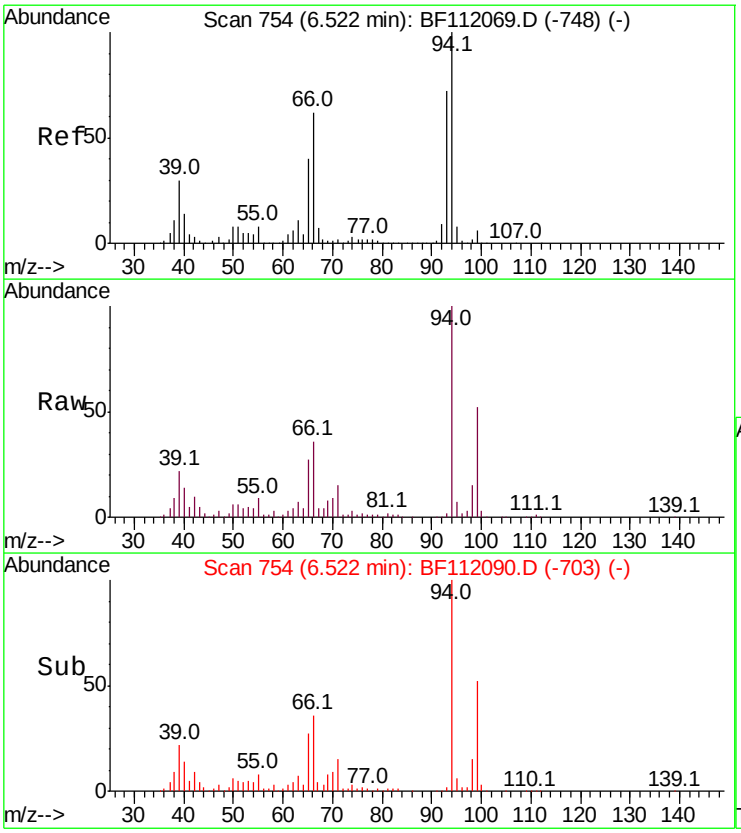
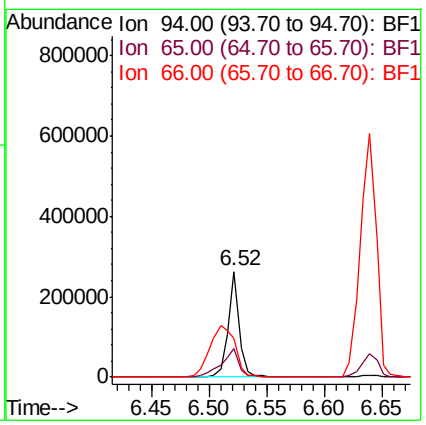
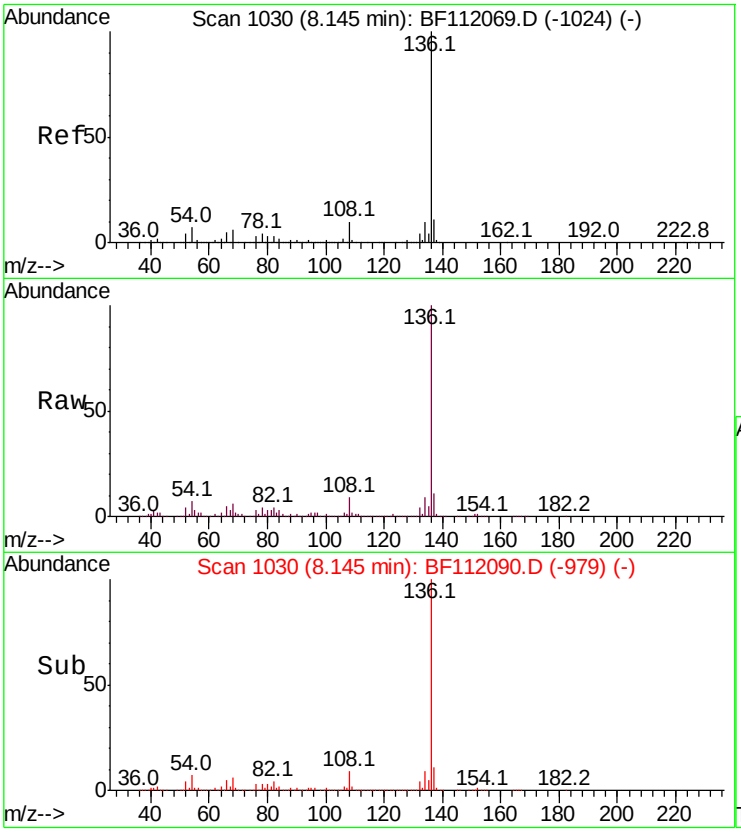



#10
Phenol
Concen: 7.448 ng
RT: 6.52 min Scan# 754
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion: 94 Resp: 176399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 27.0 | 20.3 | 60.3 |
| 66 | 36.2 | 42.4 | 82.4# |

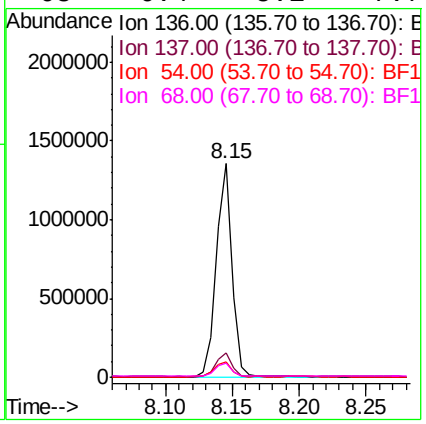





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:136 Resp: 1137607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.1 | 13.7 |
| 54 | 7.4 | 5.9 | 8.9 |
| 68 | 6.4 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
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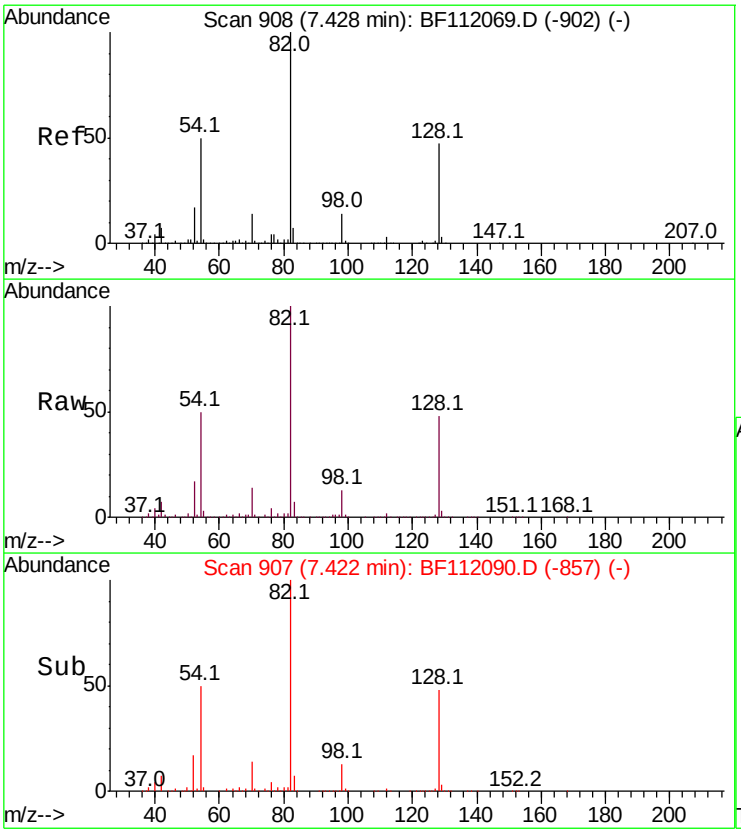
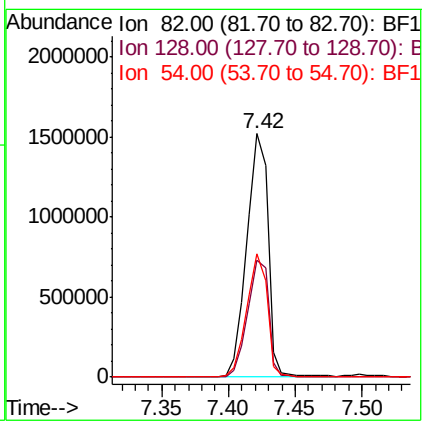
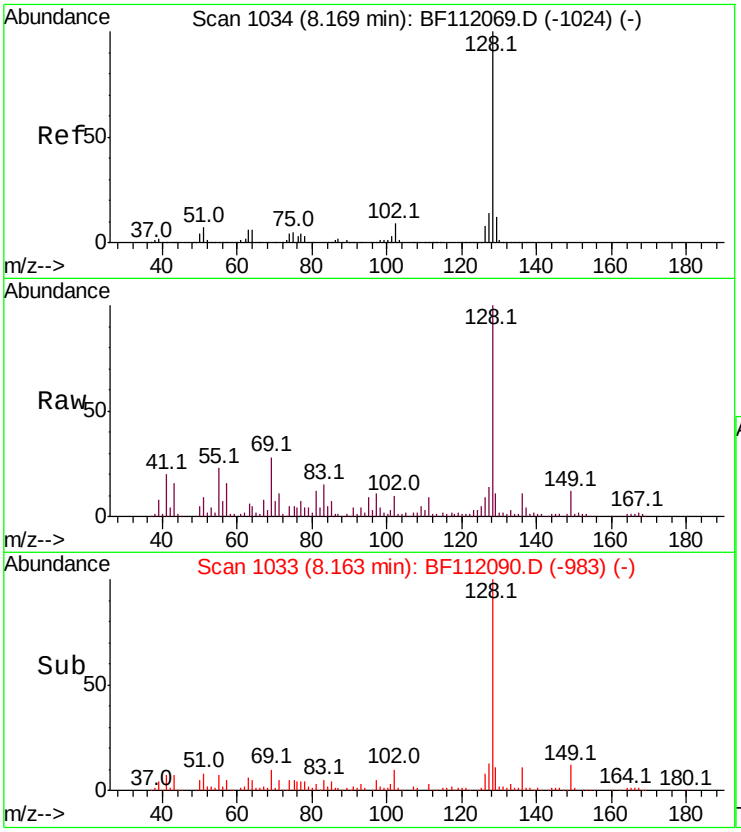



#23
Nitrobenzene-d5
Concen: 100.755 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion: 82 Resp: 1659013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.8 | 37.8 | 56.8 |
| 54 | 50.5 | 39.7 | 59.5 |

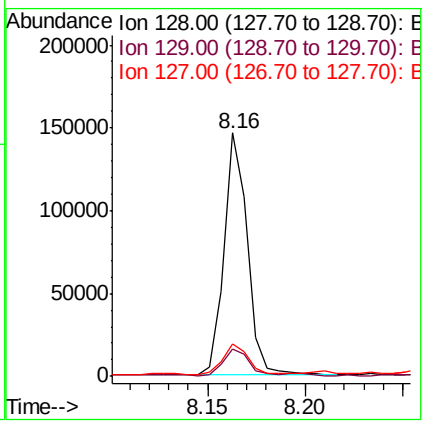





#31
Naphthalene
Concen: 2.313 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:128 Resp: 119679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 9.6 | 14.4 |
| 127 | 13.6 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
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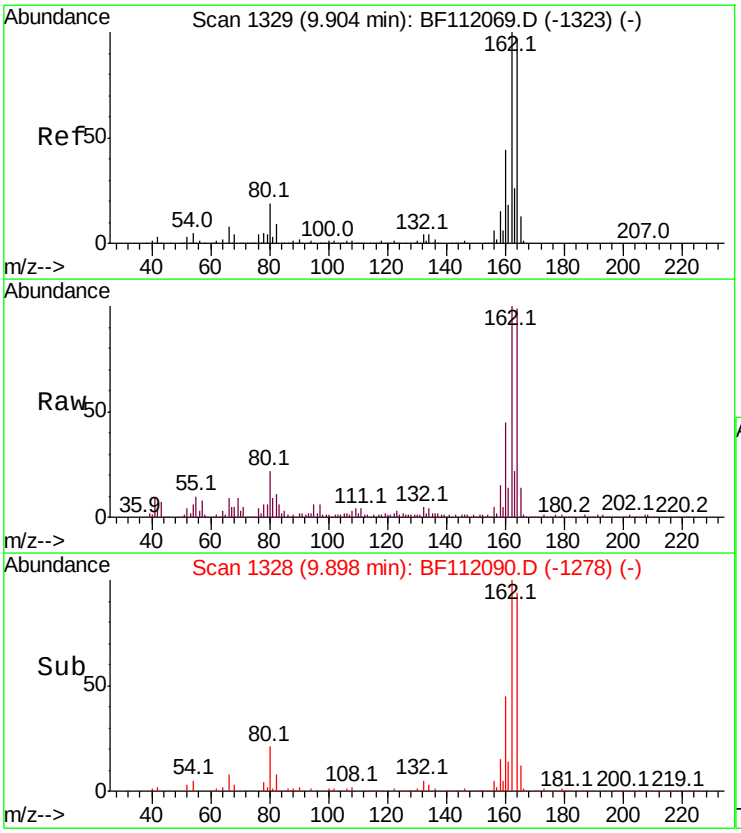
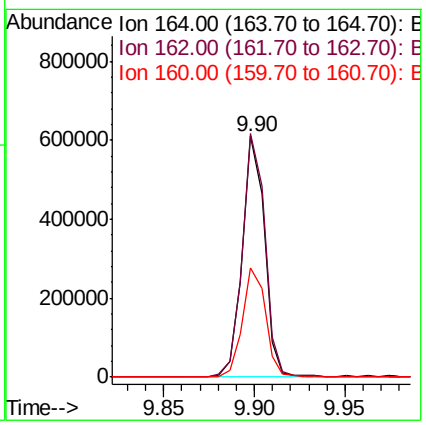
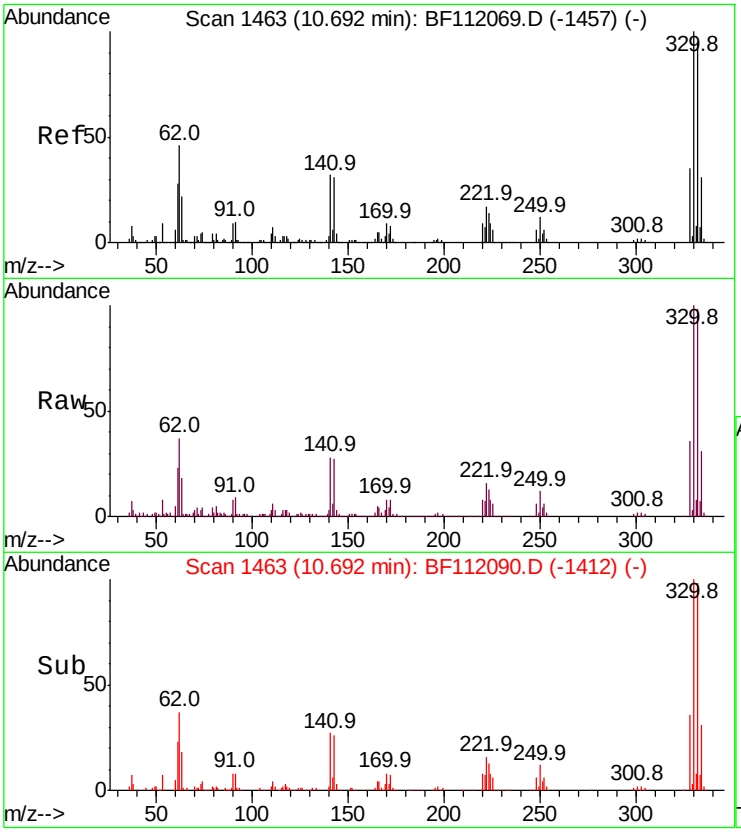



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:164 Resp: 513824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.1 | 82.2 | 123.4 |
| 160 | 45.1 | 36.2 | 54.4 |

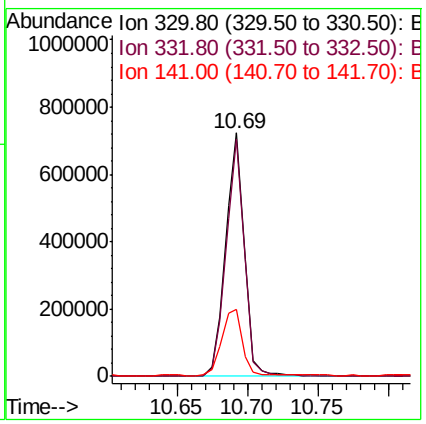





#42
2,4,6-Tribromophenol
Concen: 120.073 ng
RT: 10.69 min Scan# 1463
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:330 Resp: 665571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.4 | 76.6 | 114.8 |
| 141 | 29.6 | 24.3 | 36.5 |

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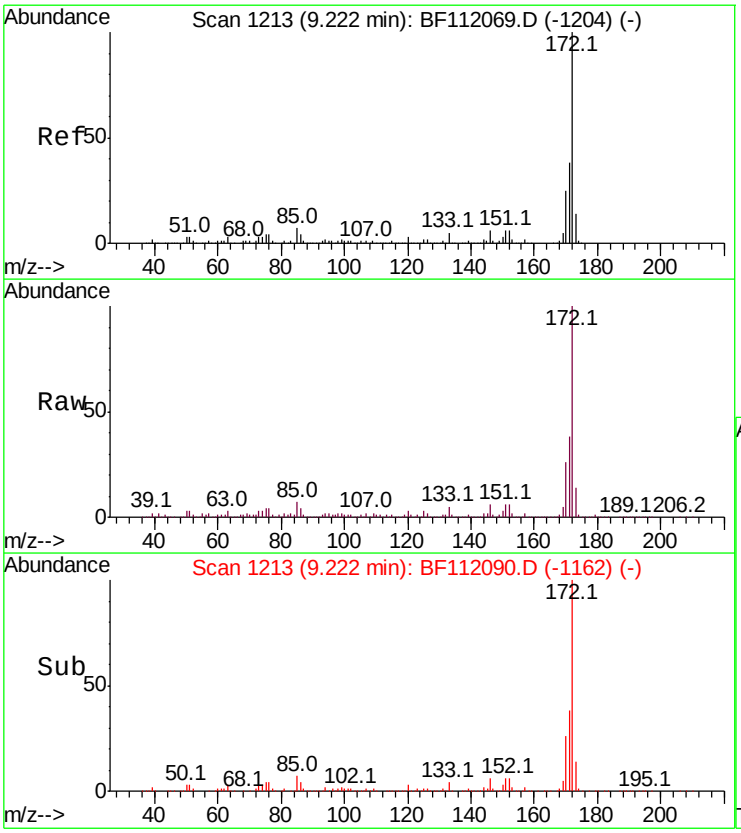
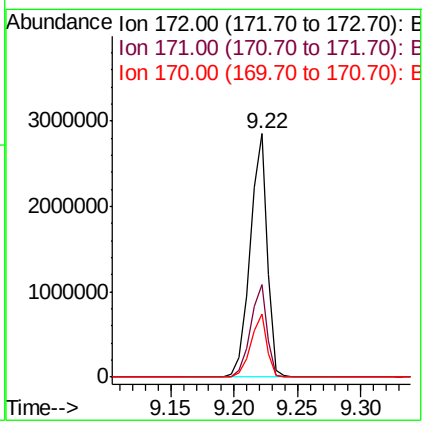
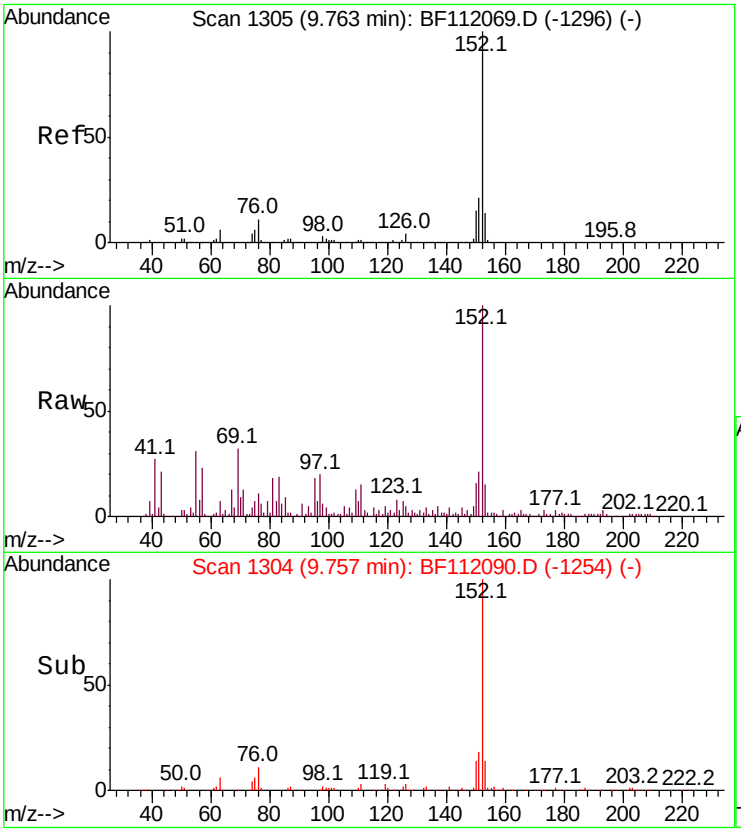



#45
2-Fluorobiphenyl
Concen: 76.743 ng
RT: 9.22 min Scan# 1213
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:172 Resp: 2689583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.3 | 30.5 | 45.7 |
| 170 | 25.8 | 20.2 | 30.4 |

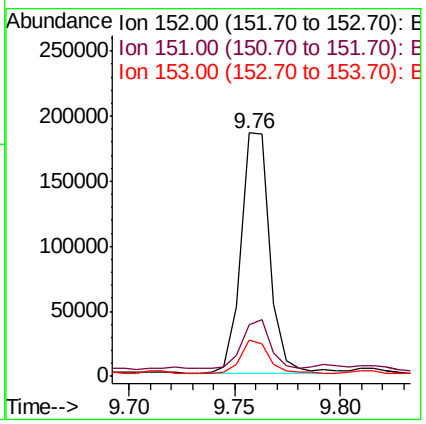





#49
Acenaphthylene
Concen: 3.602 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:152 Resp: 176773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 17.0 | 25.6 |
| 153 | 15.0 | 11.2 | 16.8 |




**Instrument :**
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CLOVER-YARD-B

**Manual Integrations APPROVED**
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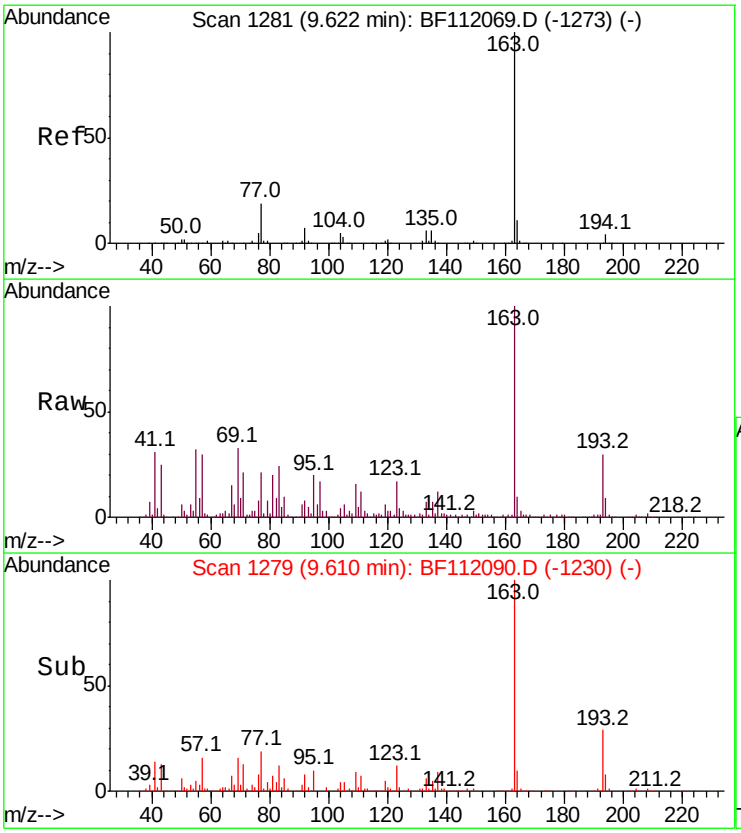
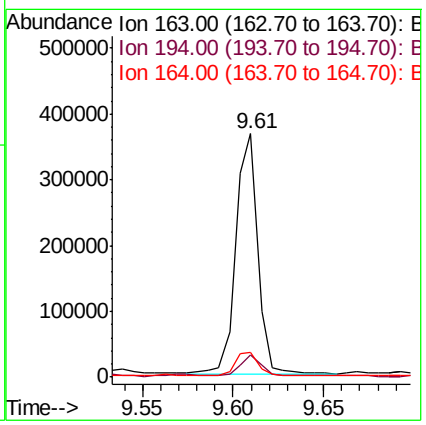
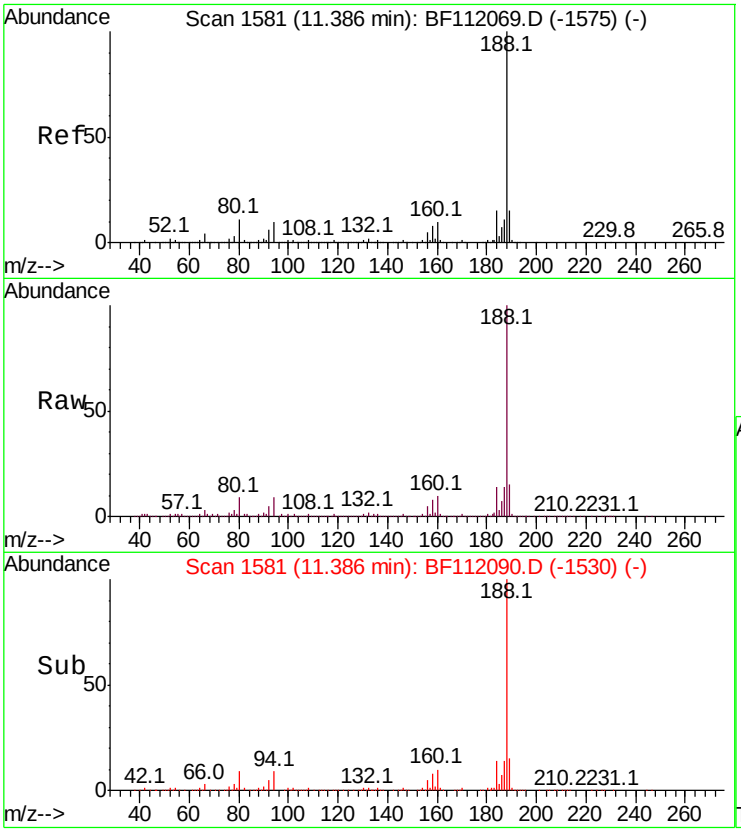



#50
Dimethylphthalate
Concen: 8.121 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:163 Resp: 304294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 9.0 | 3.3 | 4.9# |
| 164 | 10.3 | 8.5 | 12.7 |

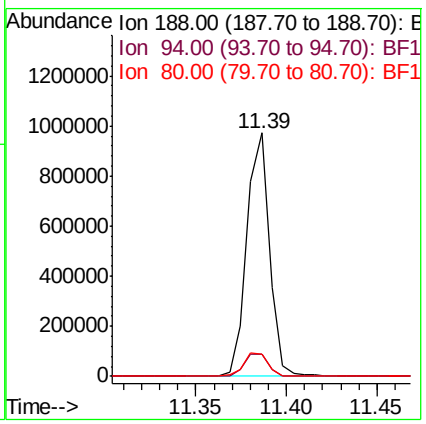





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:188 Resp: 844913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.2 | 8.2 | 12.2 |
| 80 | 9.3 | 8.9 | 13.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
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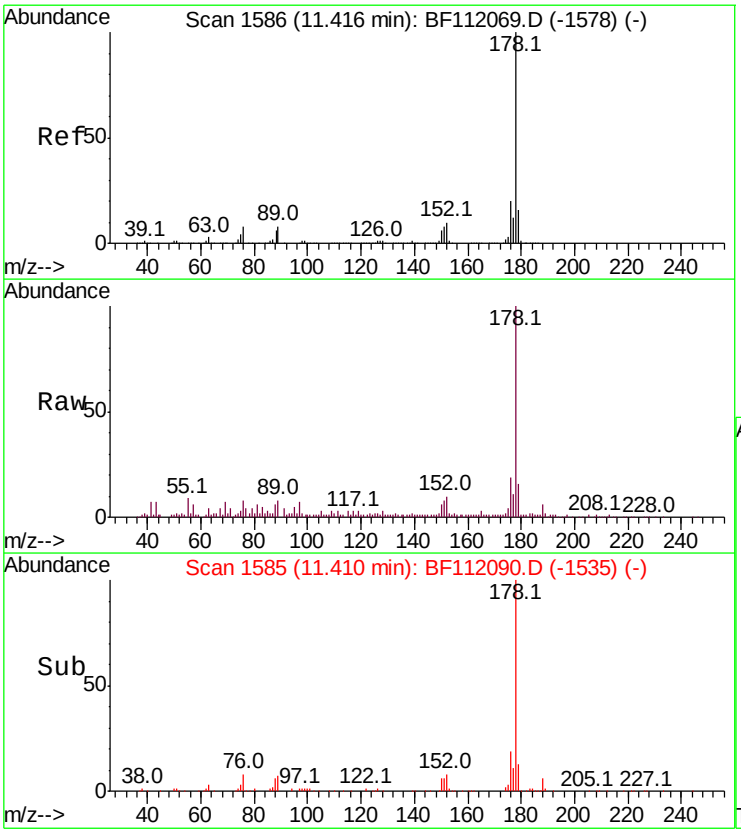
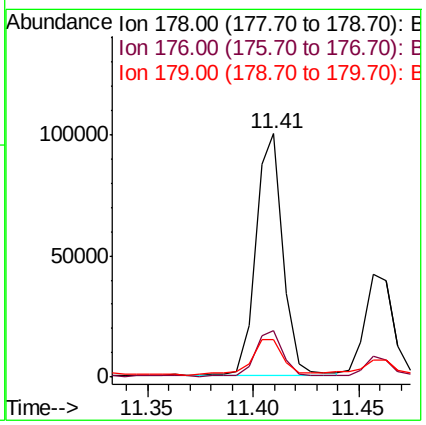
1/18/2019 11:45:48 AM

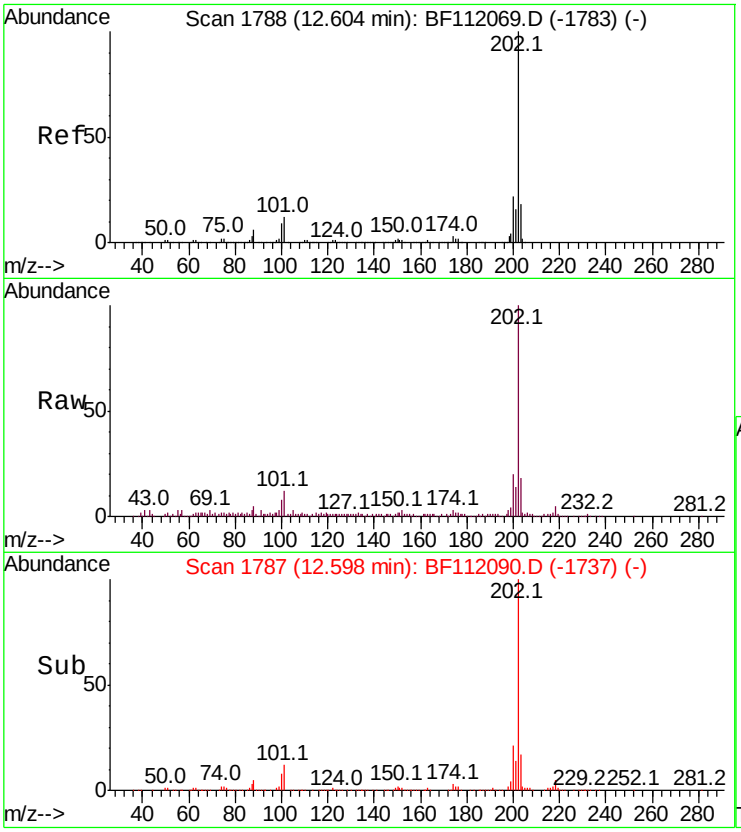



#71
Phenanthrene
Concen: 2.104 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:178 Resp: 89465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 16.3 | 24.5 |
| 179 | 15.6 | 13.0 | 19.4 |

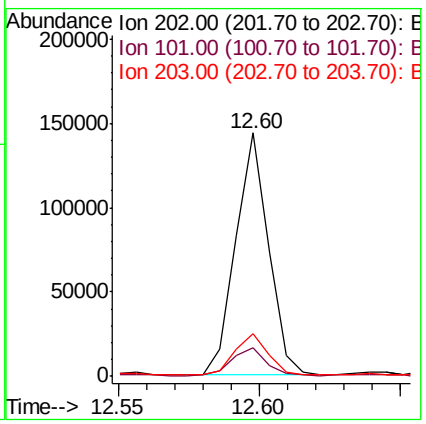





#75
Fluoranthene
Concen: 2.573 ng
RT: 12.60 min Scan# 1787
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

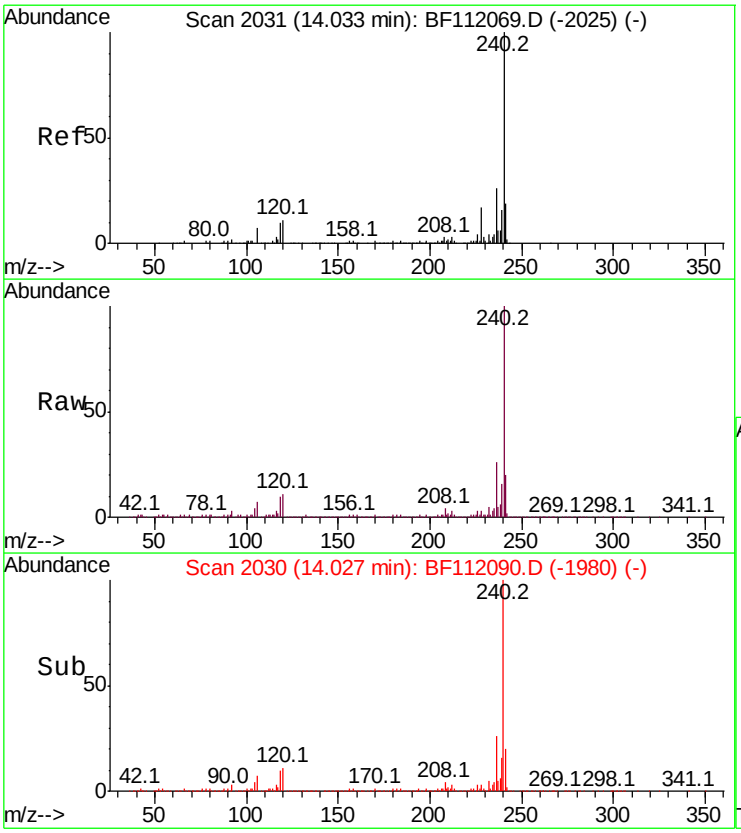
Tgt Ion:202 Resp: 115494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 0.0 | 31.8 |
| 203 | 17.8 | 0.0 | 38.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

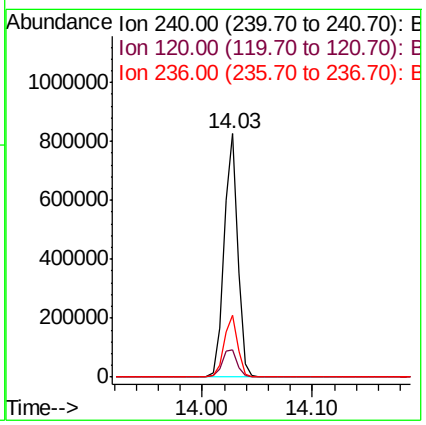
**Manual Integrations APPROVED**
Sohil
1/18/2019 11:45:48 AM

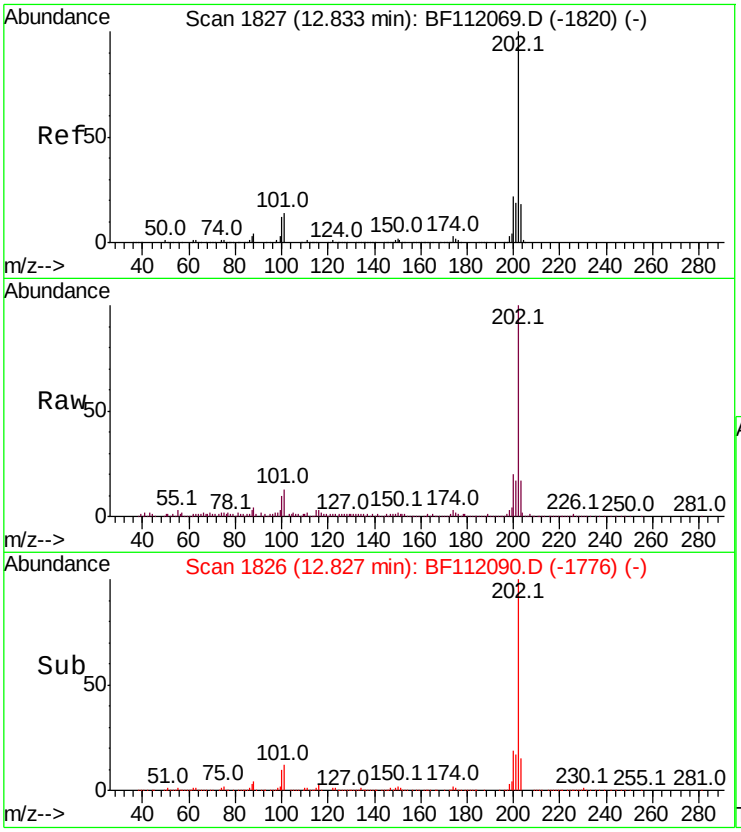



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:240 Resp: 716490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.2 | 9.0 | 13.6 |
| 236 | 25.5 | 20.7 | 31.1 |

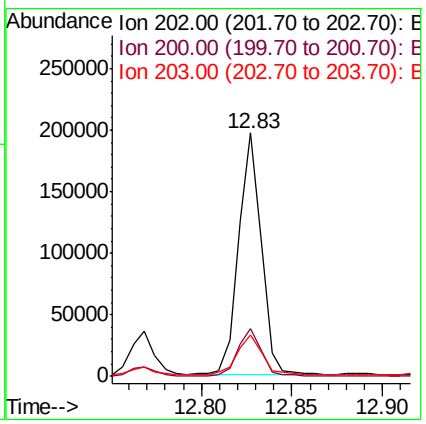





#78
Pyrene
Concen: 3.632 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:202 Resp: 171668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.8 | 17.7 | 26.5 |
| 203 | 17.1 | 14.6 | 22.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

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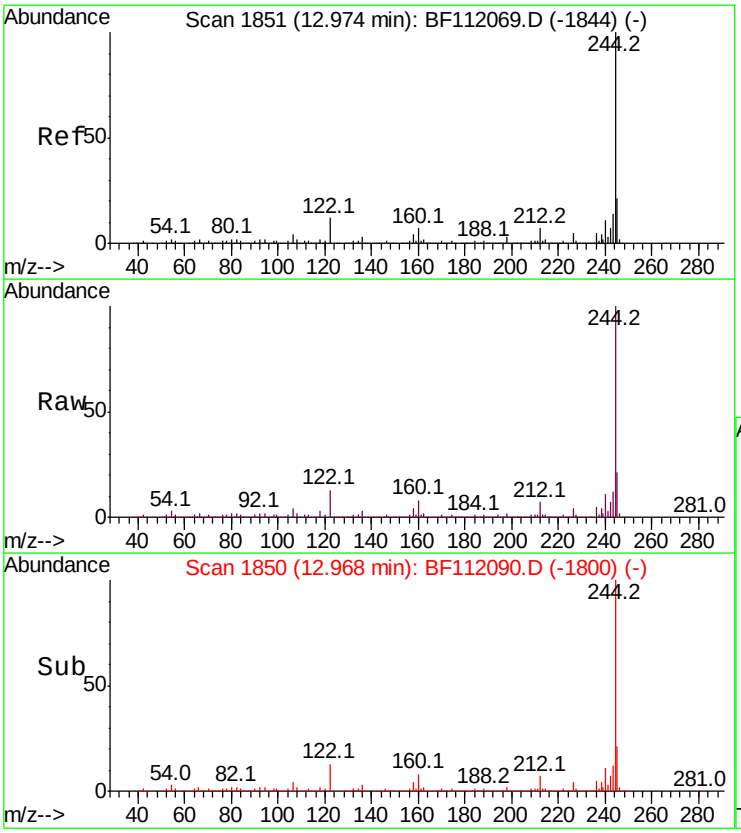
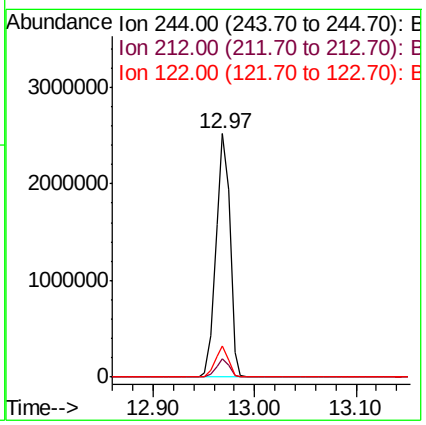
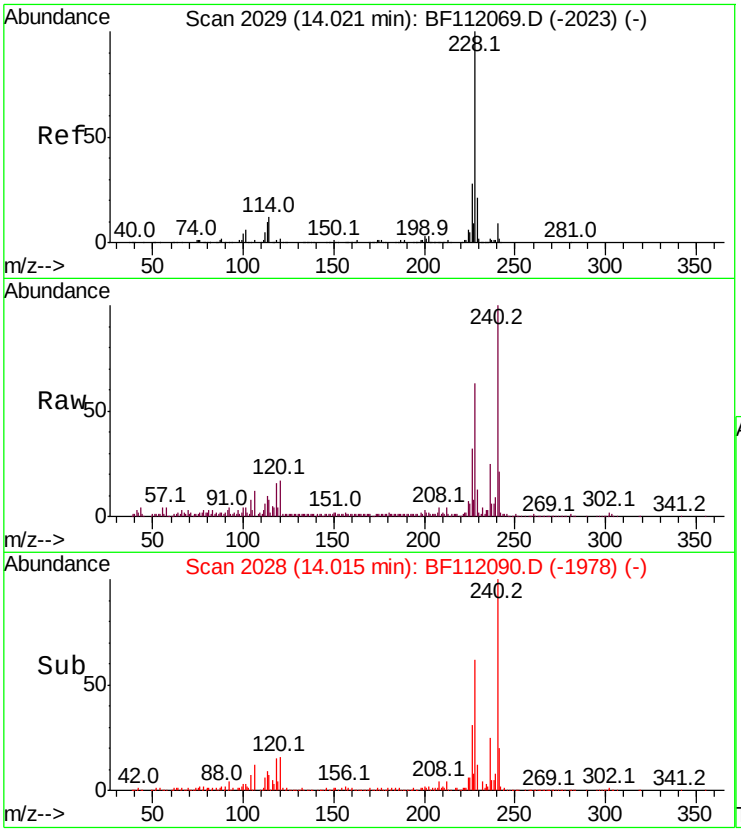



#79
Terphenyl-d14
Concen: 71.696 ng
RT: 12.97 min Scan# 1850
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:244 Resp: 2414694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 5.9 | 8.9 |
| 122 | 12.7 | 9.8 | 14.6 |






#81
Benzo(a)anthracene
Concen: 2.300 ng m
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:228 Resp: 94494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 50.8 | 22.6 | 34.0# |
| 229 | 21.5 | 16.5 | 24.7 |

**Instrument :**
BNA_F
**ClientSampleId :**
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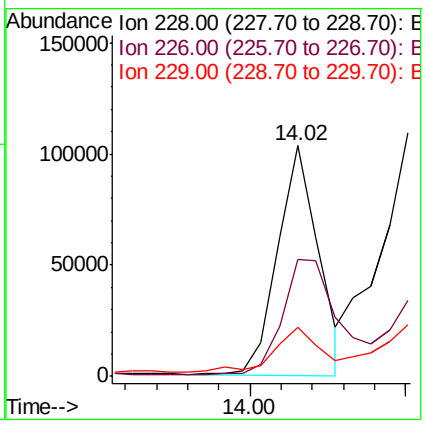
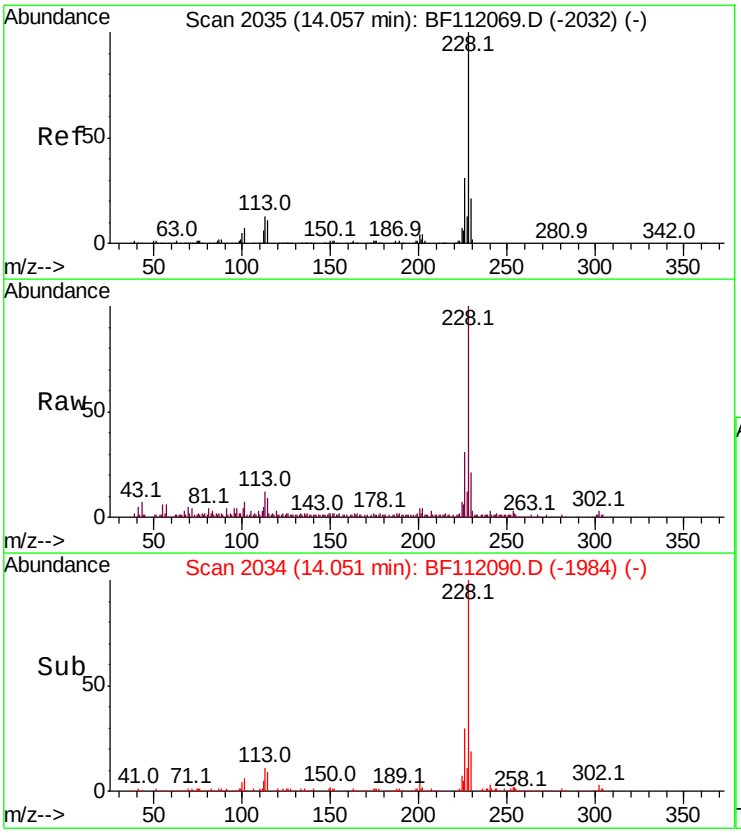
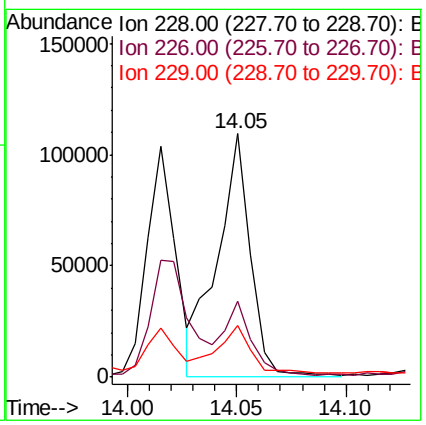


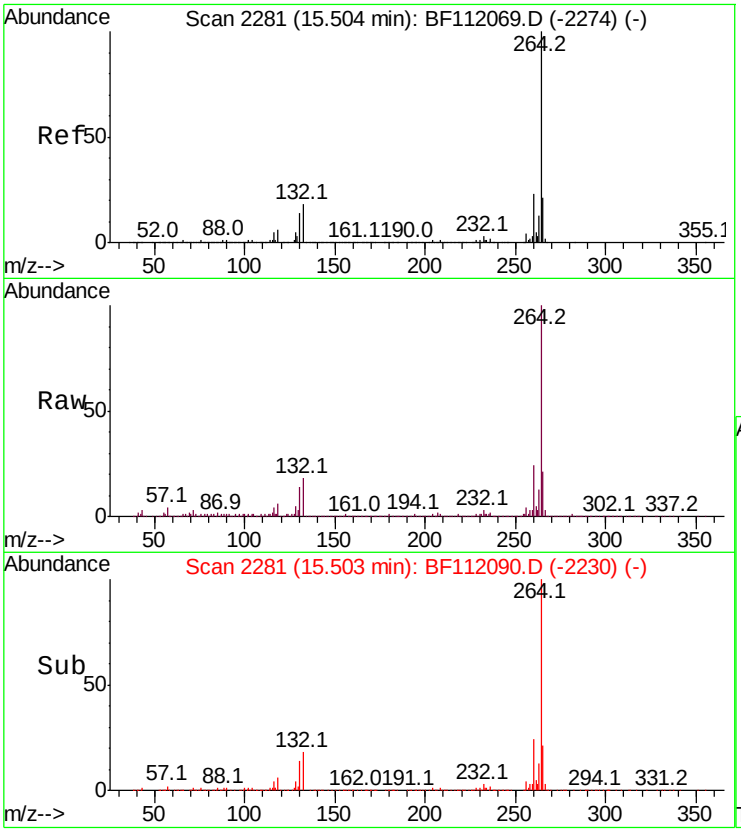




#83
Chrysene
Concen: 2.940 ng m
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:228 Resp: 114285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 25.0 | 37.6 |
| 229 | 21.2 | 16.6 | 24.8 |

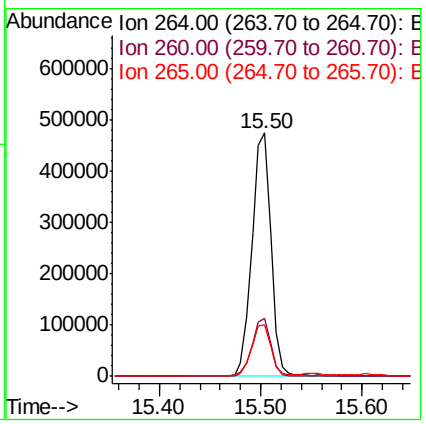





#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:264 Resp: 616314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 18.2 | 27.2 |
| 265 | 21.4 | 17.0 | 25.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
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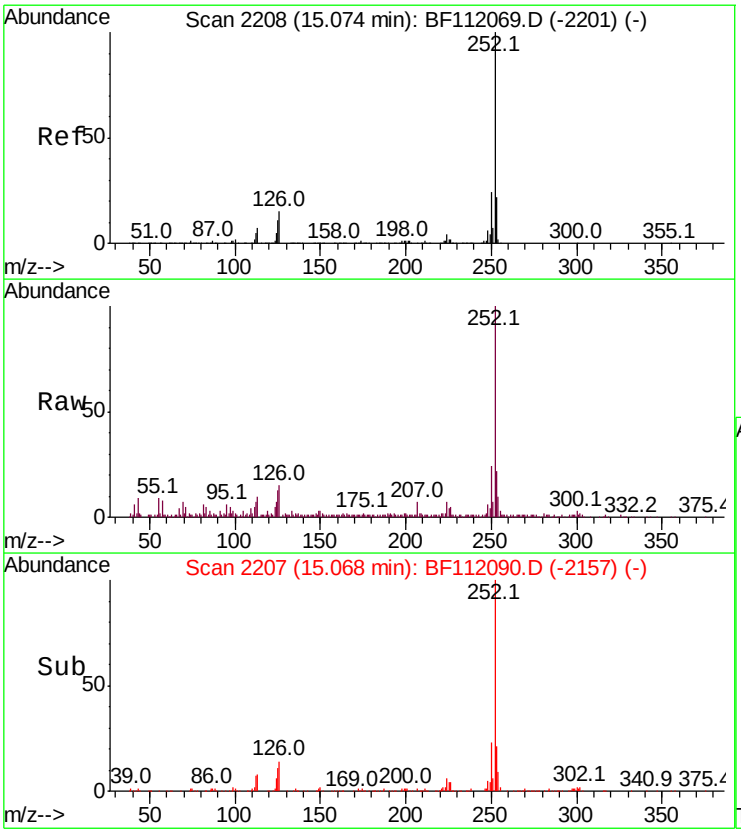
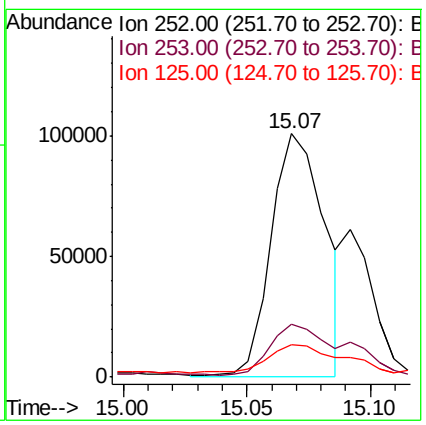
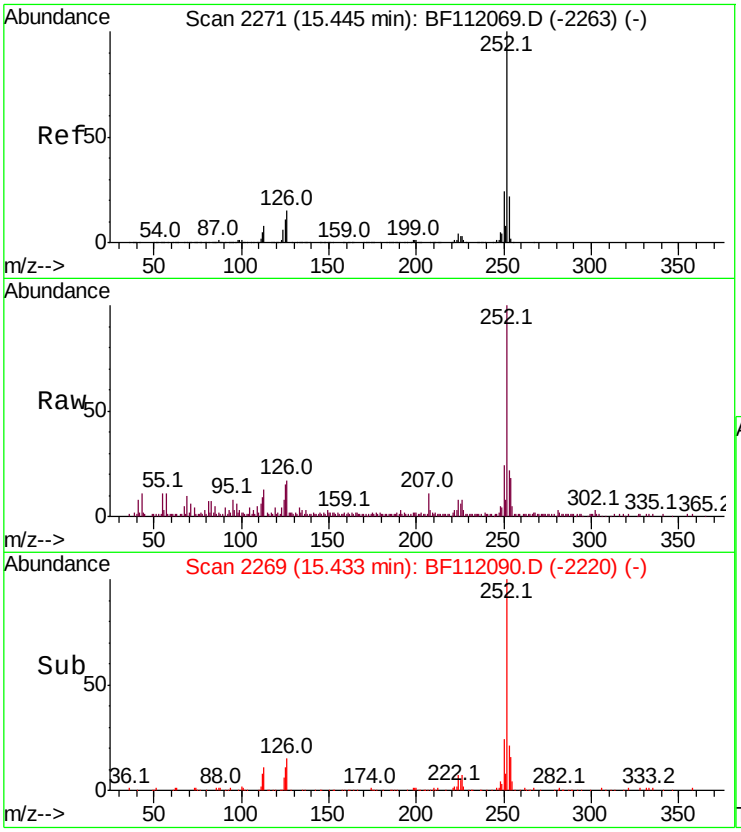



#88
Benzo(b)fluoranthene
Concen: 4.393 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:252 Resp: 153697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 18.0 | 27.0 |
| 125 | 13.5 | 8.7 | 13.1# |






#90
Benzo(a)pyrene
Concen: 2.555 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:252 Resp: 81980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 15.1 | 9.0 | 13.4# |

**Instrument :**
BNA_F
**ClientSampleId :**
CLOVER-YARD-B

**Manual Integrations APPROVED**
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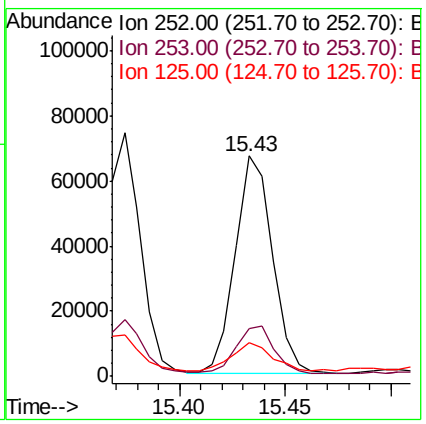


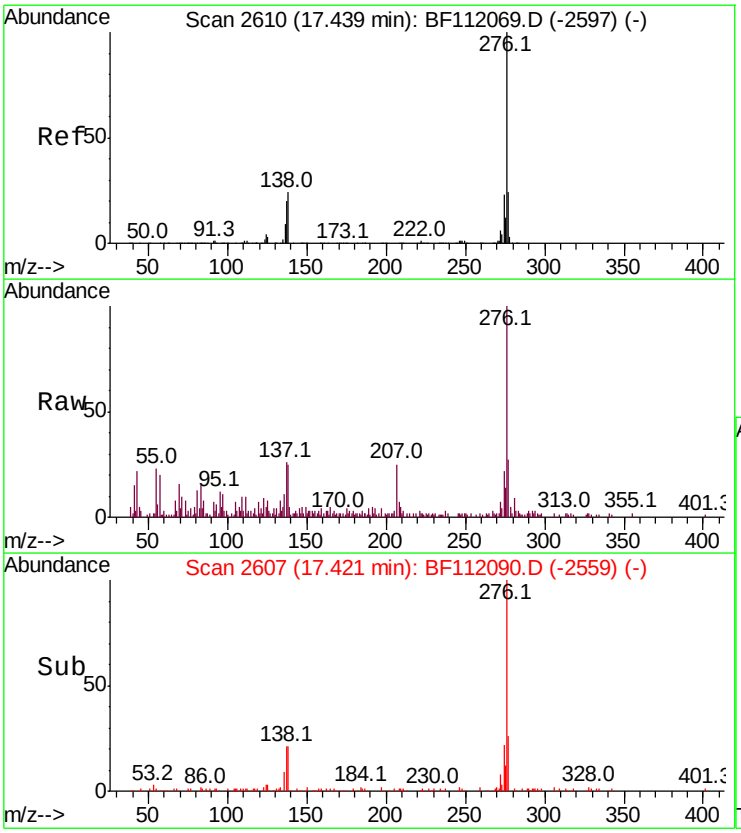


#92
Benzo(g,h,i)perylene
Concen: 2.085 ng
RT: 17.42 min Scan# 2607
Delta R.T. -0.02 min
Lab File: BF112090.D
Acq: 17 Jan 2019 15:38

Tgt Ion:276 Resp: 58523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.5 | 19.4 | 29.0 |
| 138 | 24.5 | 19.1 | 28.7 |