Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071919\
Data File : BE100475.D
Acq On : 19 Jul 2019 18:28
Operator : HP/JU
Sample : K3911-03DL 25X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
HJDC-COMP1DL

Manual Integrations APPROVED
mohammad
7/24/2019 8:30:05 AM

Quant Time: Jul 22 19:23:13 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 19 13:59:01 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.89 | 152 | 3584 | 0.40 | ng | | 0.01 |
| 7) Naphthalene-d8 | 10.68 | 136 | 15005 | 0.40 | ng | | 0.01 |
| 13) Acenaphthene-d10 | 14.51 | 164 | 8743 | 0.40 | ng | | 0.01 |
| 19) Phenanthrene-d10 | 17.23 | 188 | 19747 | 0.40 | ng | | 0.01 |
| 27) Chrysene-d12 | 21.40 | 240 | 21008 | 0.40 | ng | | 0.02 |
| 34) Perylene-d12 | 24.01 | 264 | 20408m | 0.40 | ng | | 0.15 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.47 | 112 | 173 | 0.02 | ng | | 0.01 |
| 5) Phenol-d6 | 7.04 | 99 | 509 | 0.04 | ng | | 0.01 |
| 8) Nitrobenzene-d5 | 9.03 | 82 | 431 | 0.04 | ng | | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 446 | 0.02 | ng | | 0.01 |
| 14) 2,4,6-Tribromophenol | 15.98 | 330 | 163 | 0.04 | ng | | 0.01 |
| 15) 2-Fluorobiphenyl | 13.15 | 172 | 446 | 0.01 | ng | | 0.01 |
| 25) Fluoranthene-d10 | 19.26 | 212 | 3130 | 0.01 | ng | | 0.02 |
| 29) Terphenyl-d14 | 19.85 | 244 | 1378 | 0.03 | ng | | 0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 9) Naphthalene | 10.72 | 128 | 24712 | 0.172 | ng | | 99 |
| 12) 2-Methylnaphthalene | 12.34 | 142 | 2986 | 0.119 | ng | | 100 |
| 16) Acenaphthylene | 14.23 | 152 | 4087 | 0.102 | ng | | 96 |
| 17) Acenaphthene | 14.57 | 154 | 5478 | 0.224 | ng | | 99 |
| 18) Fluorene | 15.54 | 166 | 11256 | 0.346 | ng | # | 95 |
| 23) Phenanthrene | 17.27 | 178 | 95938 | 1.964 | ng | | 100 |
| 24) Anthracene | 17.36 | 178 | 32574 | 0.714 | ng | | 97 |
| 26) Fluoranthene | 19.29 | 202 | 224006 | 3.086 | ng | | 99 |
| 28) Pyrene | 19.65 | 202 | 200810 | 3.251 | ng | # | 93 |
| 30) Benzo(a)anthracene | 21.39 | 228 | 103851 | 1.621 | ng | # | 80 |
| 31) Chrysene | 21.44 | 228 | 89076 | 1.394 | ng | # | 81 |
| 33) Indeno(1,2,3-cd)pyrene | 26.80 | 276 | 35321m | 0.511 | ng | | |
| 35) Benzo(b)fluoranthene | 23.22 | 252 | 99506m | 1.765 | ng | | |
| 36) Benzo(k)fluoranthene | 23.26 | 252 | 66540m | 1.111 | ng | | |
| 37) Benzo(a)pyrene | 23.86 | 252 | 121126 | 2.227 | ng | # | 4 |
| 39) Benzo(g,h,i)perylene | 27.80 | 276 | 29815m | 0.565 | ng | | |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071919\
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Acq On : 19 Jul 2019 18:28
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Misc :
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**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

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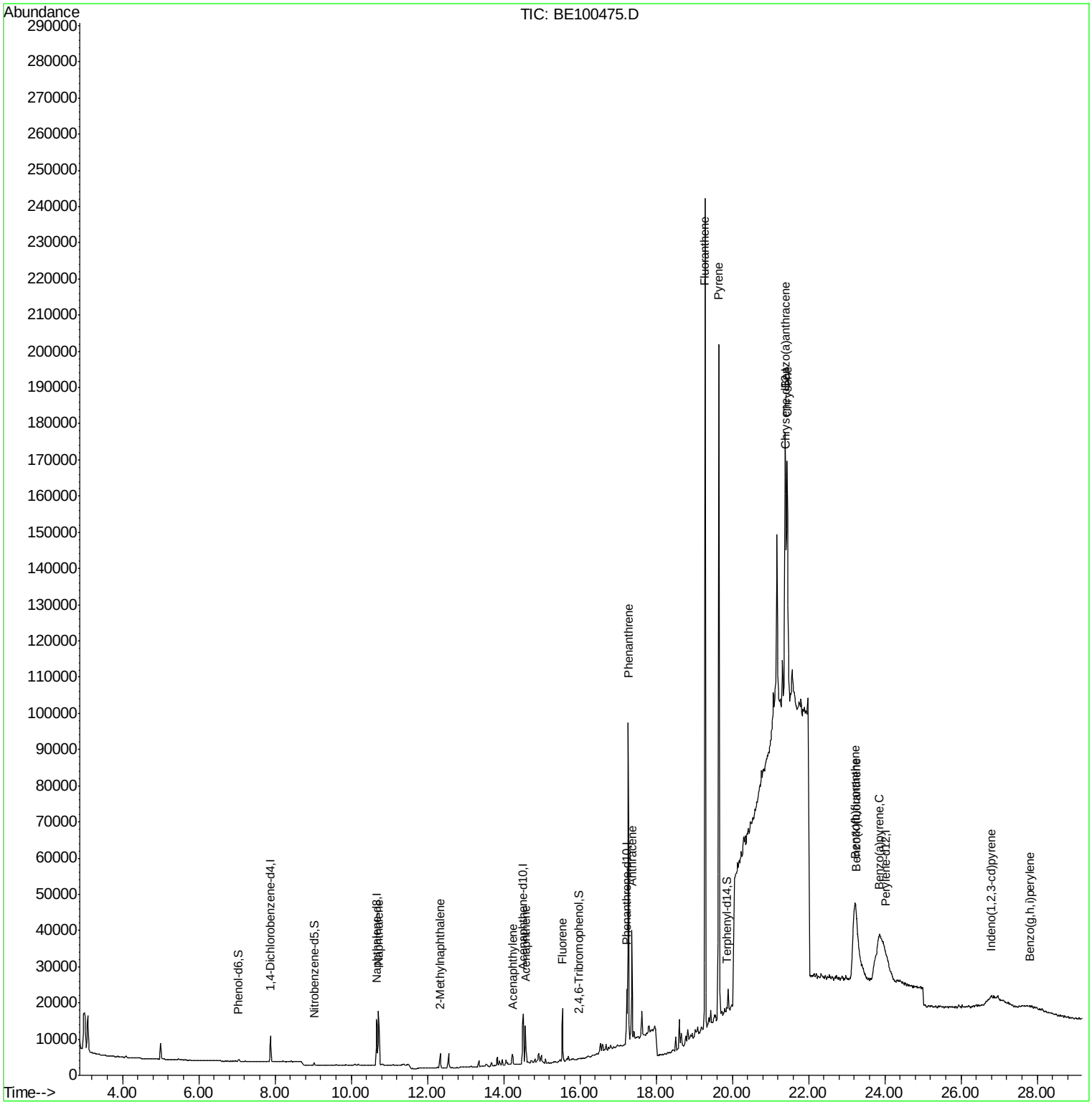
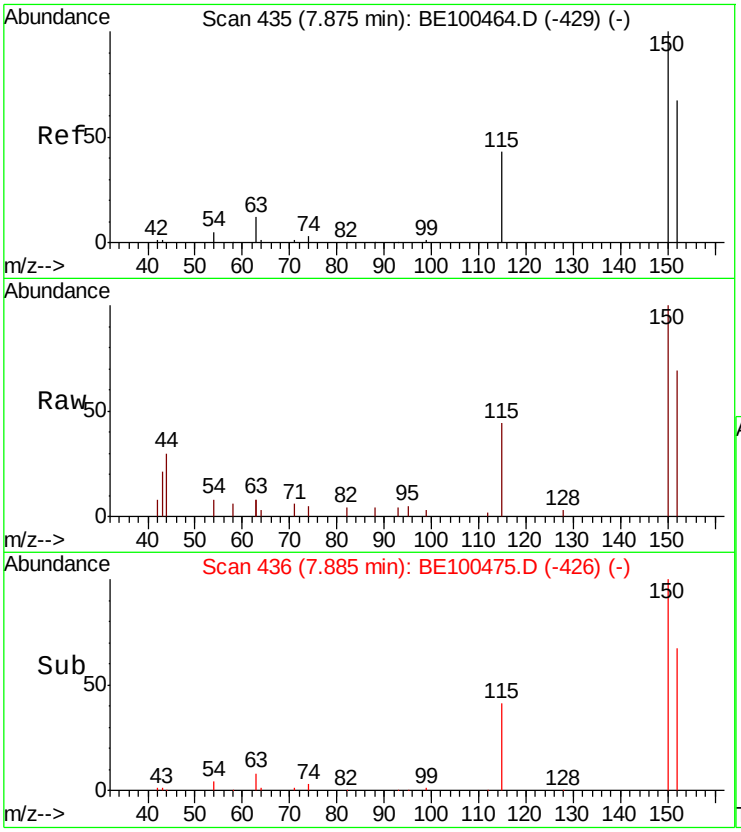
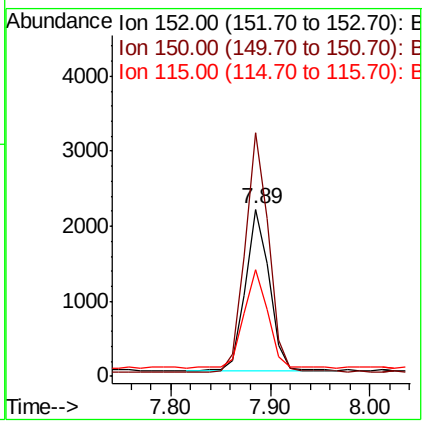





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.89 min Scan# 436
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:152 Resp: 3584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 145.7 | 117.6 | 176.4 |
| 115 | 63.8 | 54.9 | 82.3 |




**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

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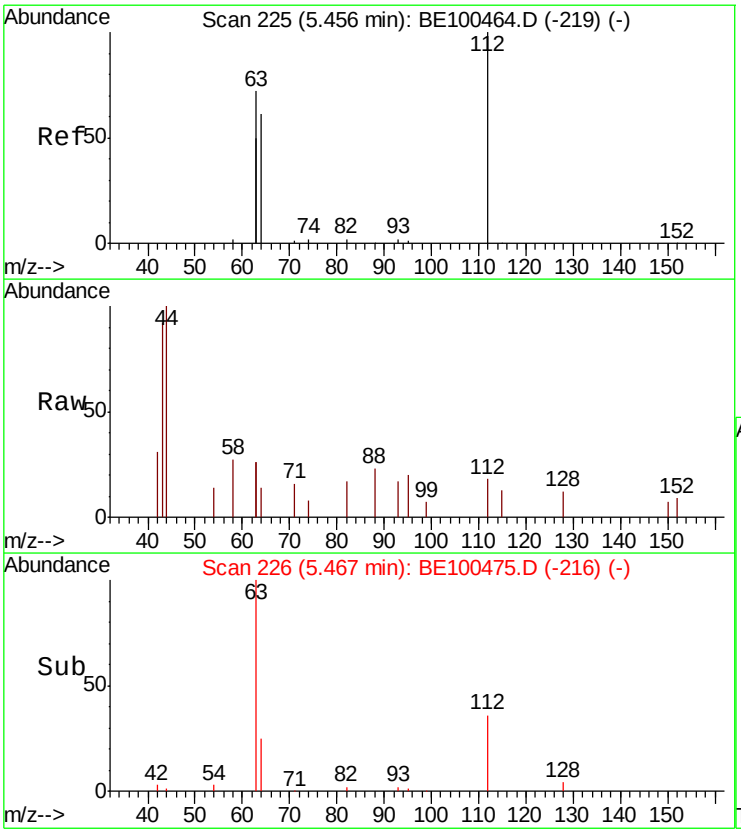
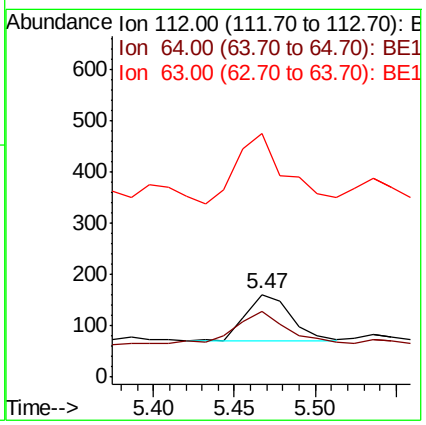
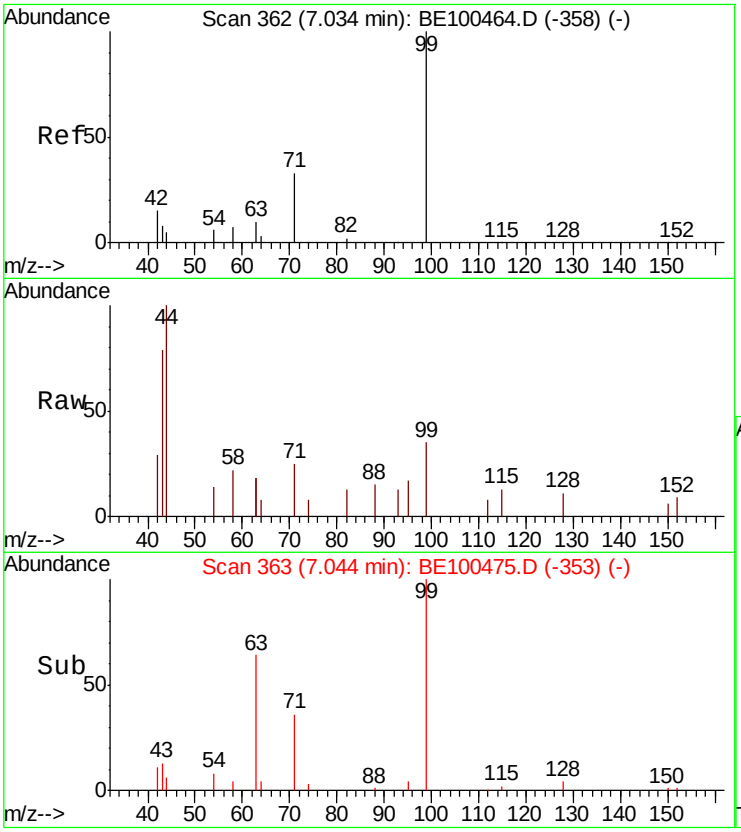



#4
2-Fluorophenol
Concen: 0.019 ng
RT: 5.47 min Scan# 226
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:112 Resp: 173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.8 | 51.9 | 77.9 |
| 63 | 178.0 | 103.9 | 155.9# |






#5
Phenol-d6
Concen: 0.041 ng
RT: 7.04 min Scan# 363
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion: 99 Resp: 509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 27.1 | 16.2 | 24.4# |
| 71 | 44.2 | 26.0 | 39.0# |

**Instrument :**
BNA_E
**ClientSampleId :**
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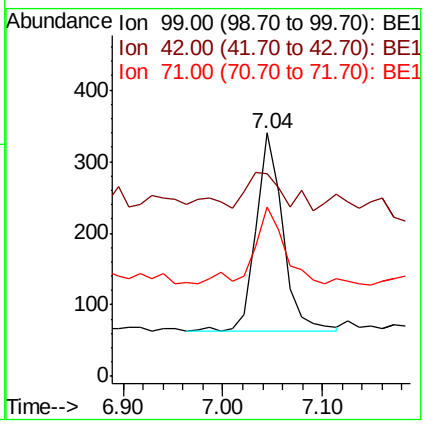
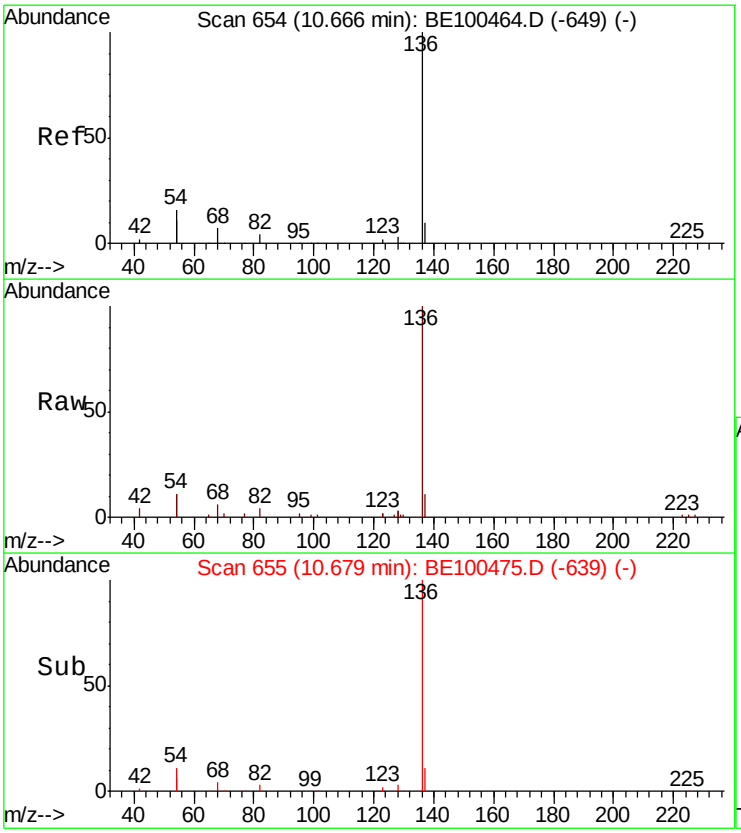
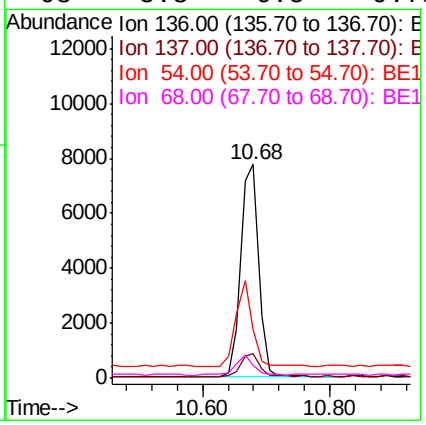


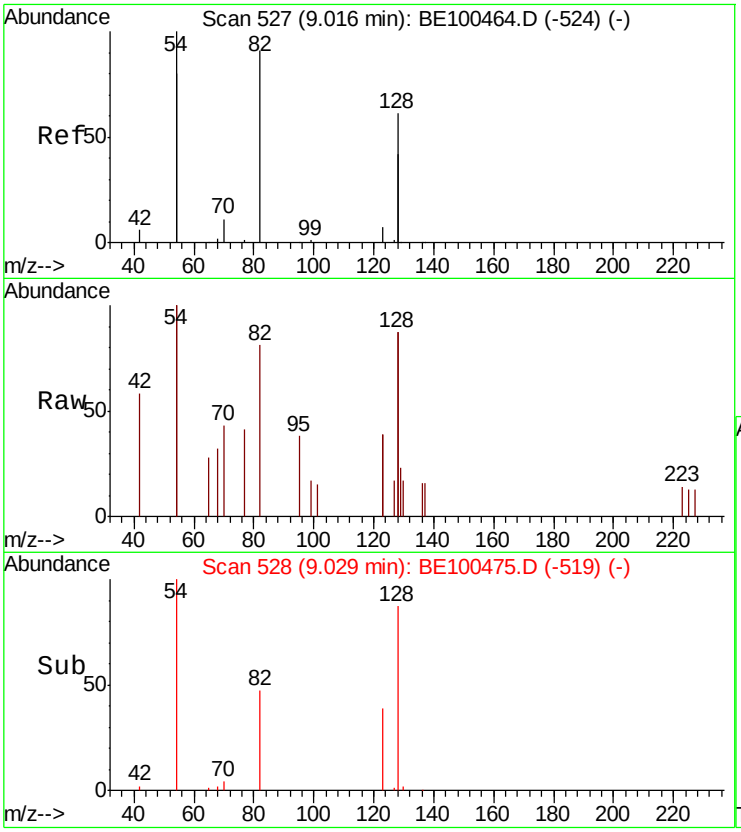




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.68 min Scan# 655
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:136 Resp: 15005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.0 | 13.6 |
| 54 | 22.7 | 26.2 | 39.2# |
| 68 | 5.8 | 6.5 | 9.7# |






#8
Nitrobenzene-d5
Concen: 0.036 ng
RT: 9.03 min Scan# 528
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion: 82 Resp: 431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 216.8 | 100.7 | 151.1# |
| 54 | 248.4 | 164.4 | 246.6# |

**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

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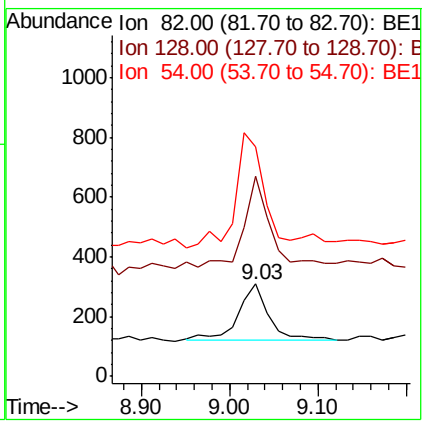
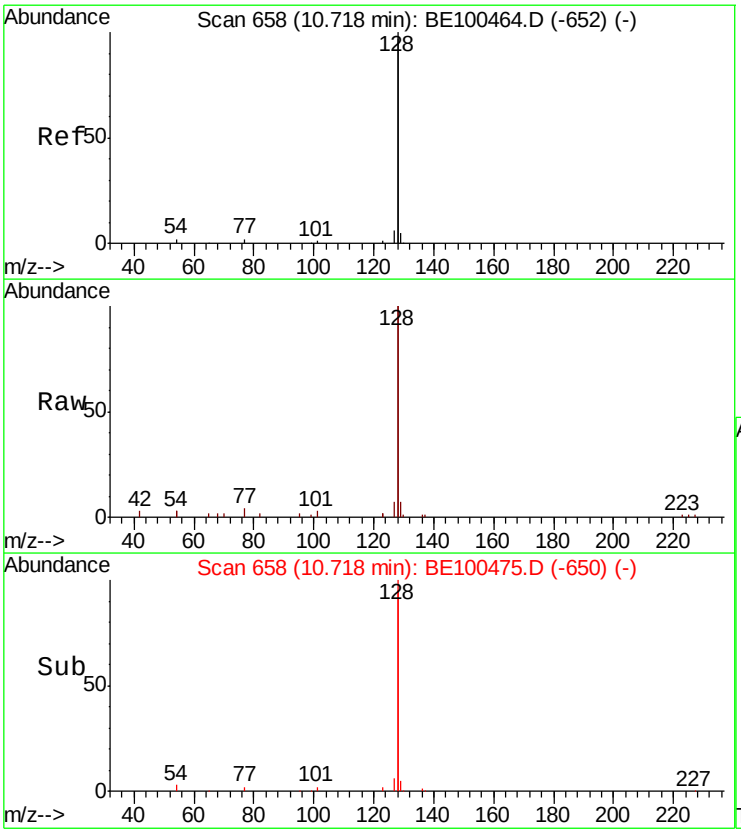
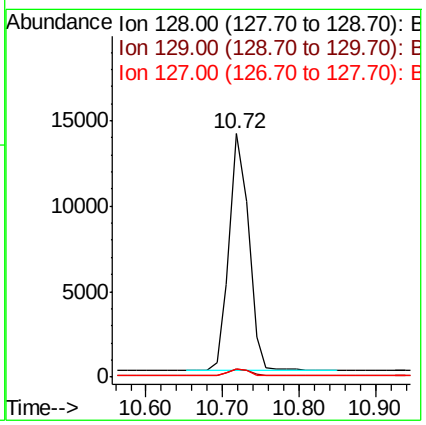


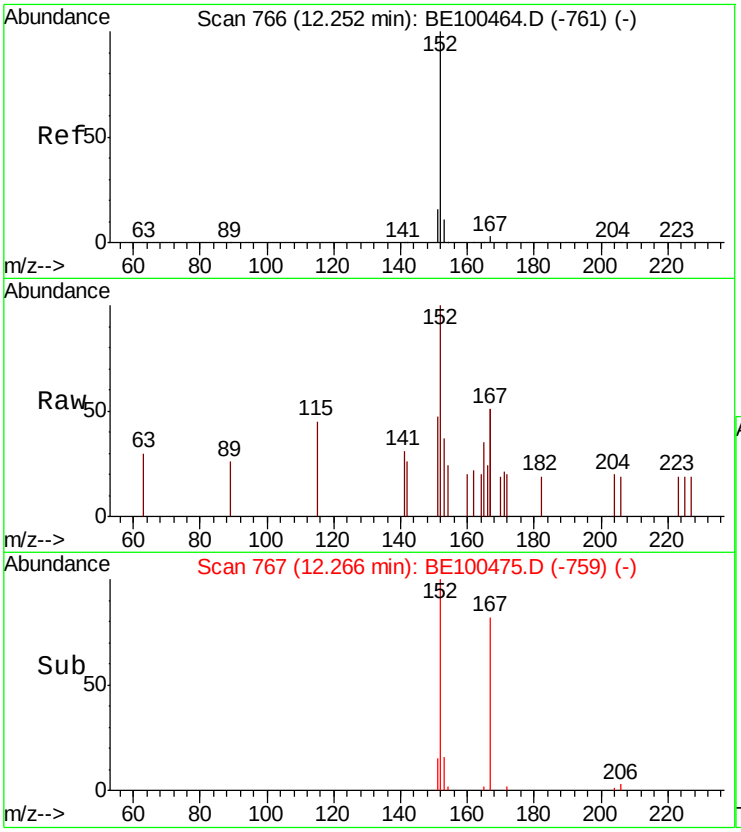




#9
Naphthalene
Concen: 0.172 ng
RT: 10.72 min Scan# 658
Delta R.T. -0.00 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:128 Resp: 24712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 3.4 | 2.4 | 3.6 |
| 127 | 3.5 | 2.6 | 4.0 |

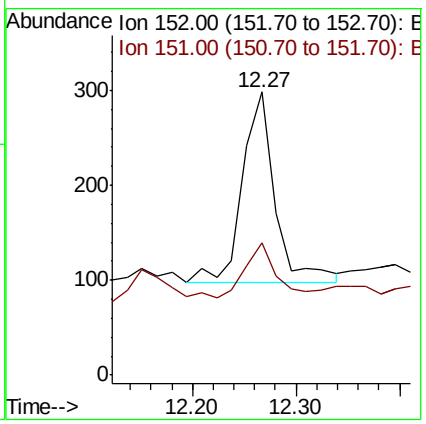





#11
2-Methylnaphthalene-d10
Concen: 0.019 ng
RT: 12.27 min Scan# 767
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:152 Resp: 446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 26.2 | 15.8 | 23.6# |




**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

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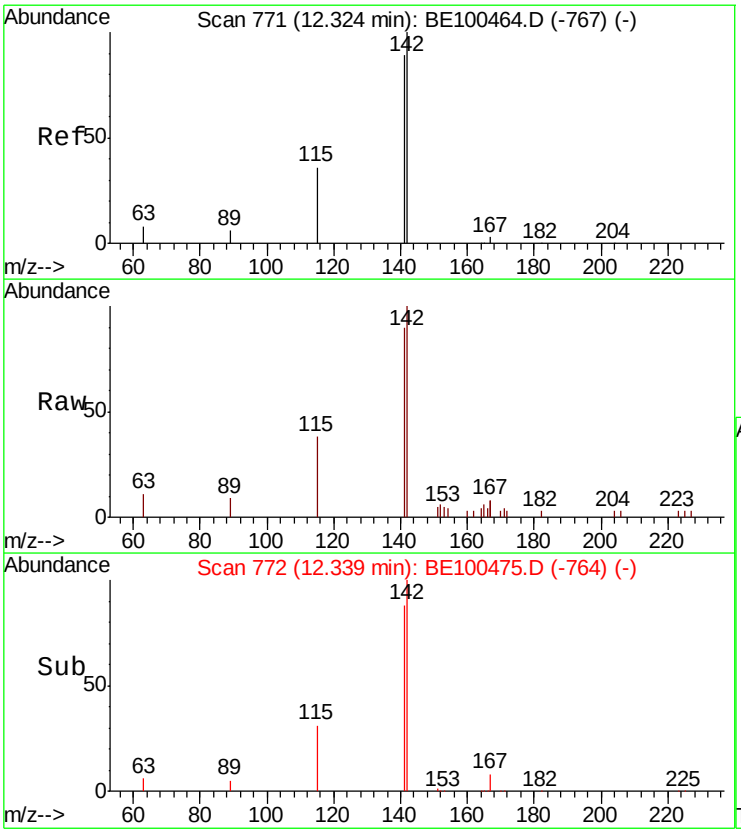
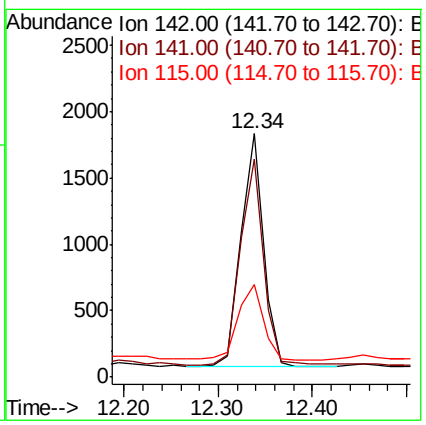
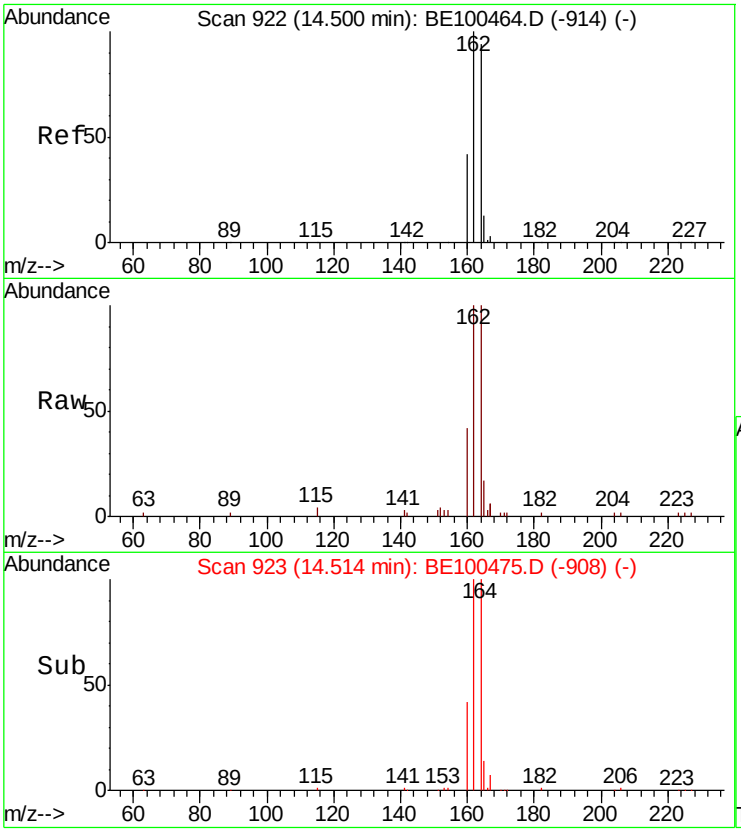



#12
2-Methylnaphthalene
Concen: 0.119 ng
RT: 12.34 min Scan# 772
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:142 Resp: 2986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.6 | 71.7 | 107.5 |
| 115 | 38.2 | 30.4 | 45.6 |

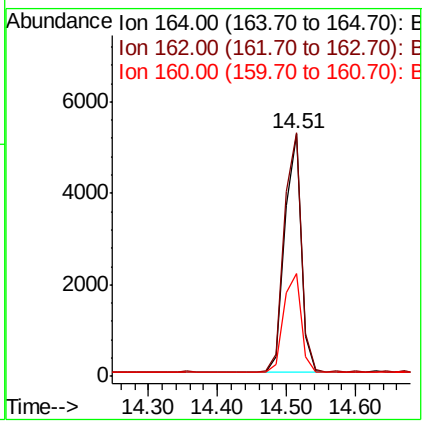





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.51 min Scan# 923
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:164 Resp: 8743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.3 | 85.0 | 127.6 |
| 160 | 42.6 | 36.2 | 54.2 |




**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

**Manual Integrations APPROVED**
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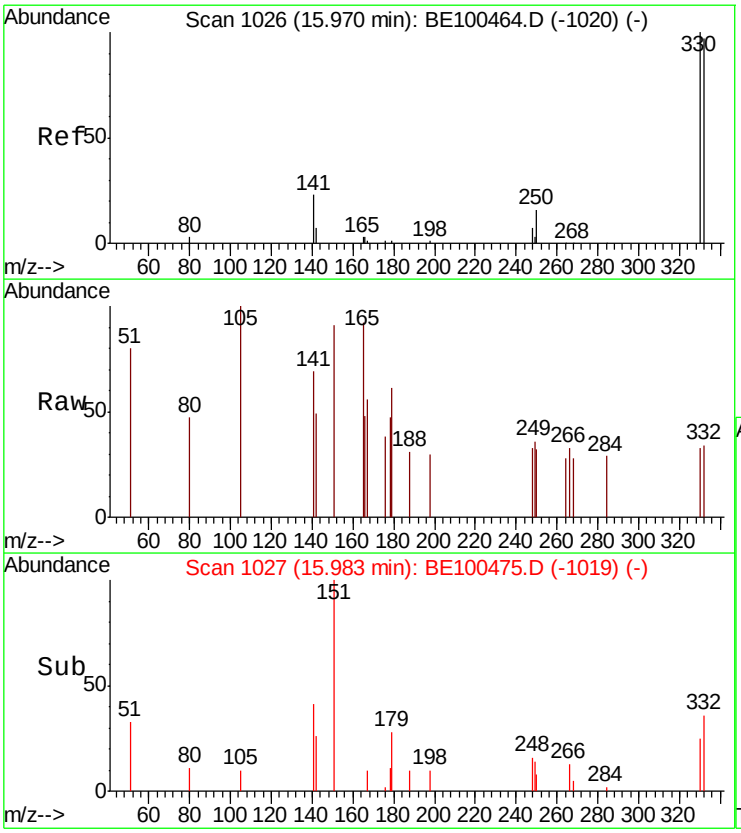
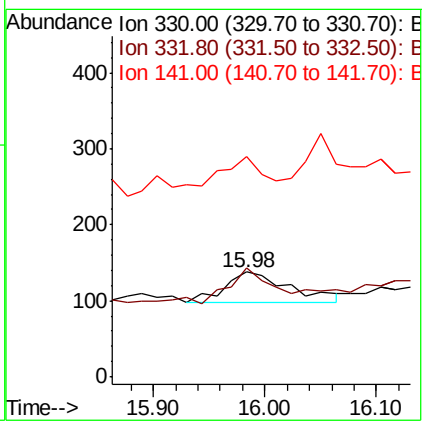
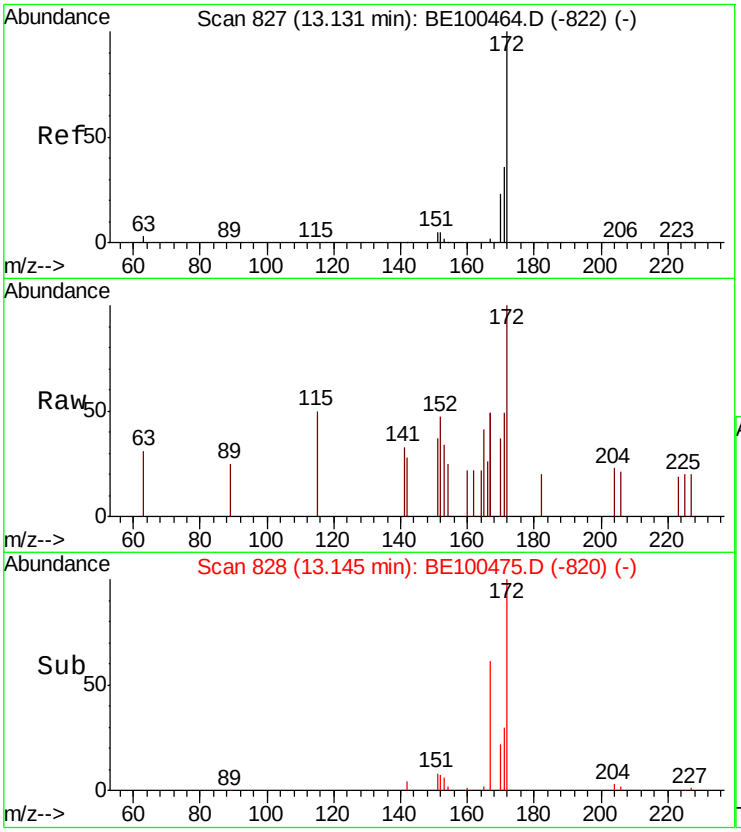



#14
2,4,6-Tribromophenol
Concen: 0.044 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:330 Resp: 163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 55.2 | 76.3 | 114.5# |
| 141 | 51.5 | 29.4 | 44.2# |

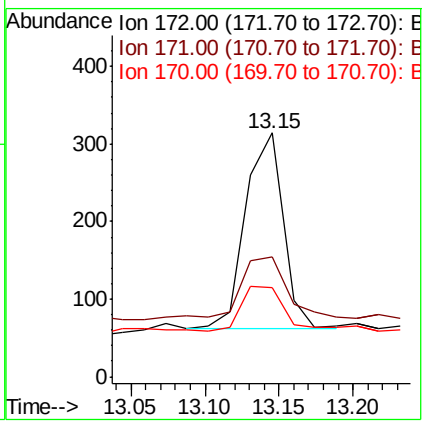





#15
2-Fluorobiphenyl
Concen: 0.012 ng
RT: 13.15 min Scan# 828
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:172 Resp: 446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 49.0 | 29.2 | 43.8# |
| 170 | 36.6 | 18.8 | 28.2# |




**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

**Manual Integrations APPROVED**
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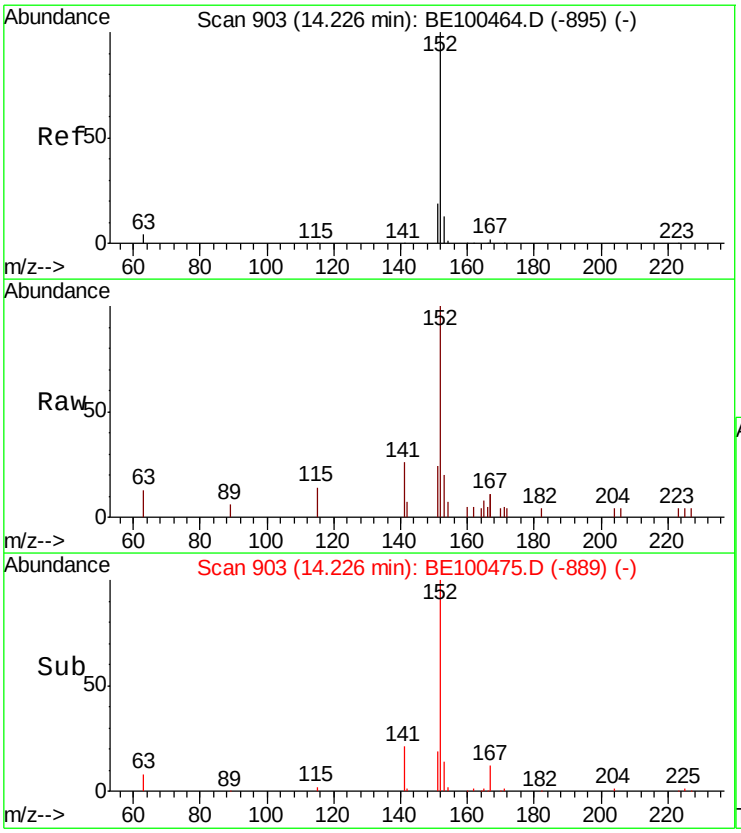
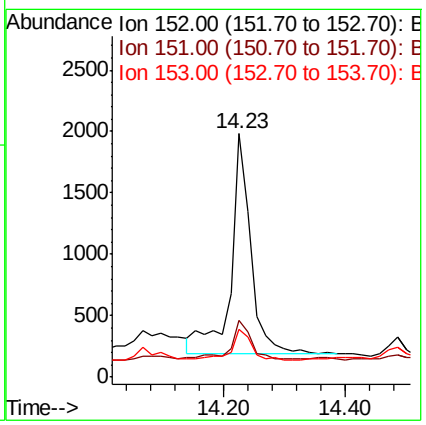
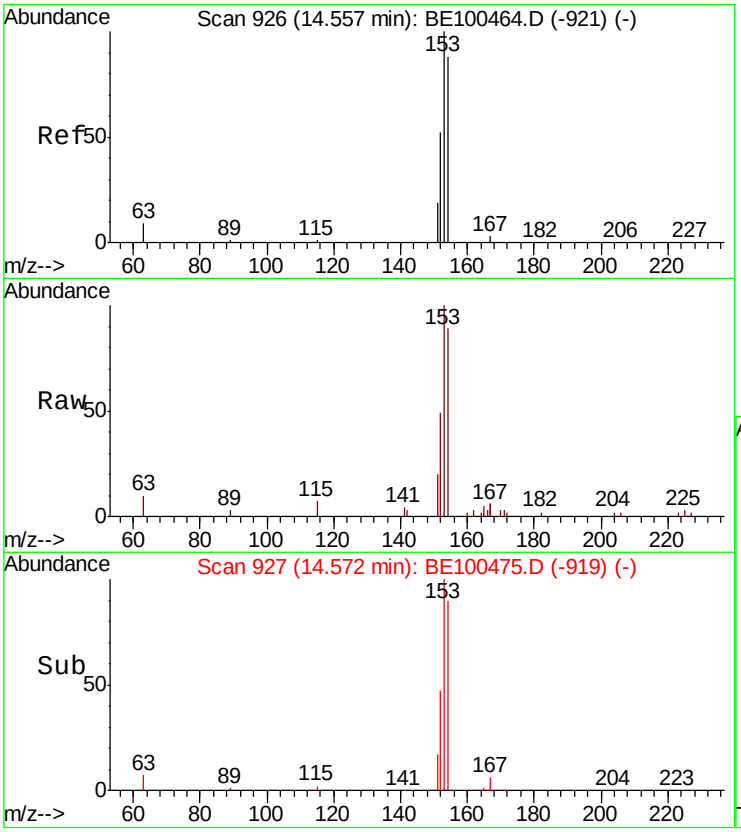



#16
Acenaphthylene
Concen: 0.102 ng
RT: 14.23 min Scan# 903
Delta R.T. -0.00 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:152 Resp: 4087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 17.9 | 15.5 | 23.3 |
| 153 | 14.9 | 10.6 | 15.8 |

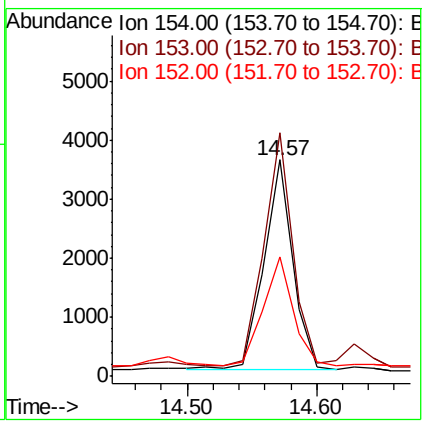





#17
Acenaphthene
Concen: 0.224 ng
RT: 14.57 min Scan# 927
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:154 Resp: 5478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.7 | 89.4 | 134.2 |
| 152 | 54.0 | 44.4 | 66.6 |




**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

**Manual Integrations APPROVED**
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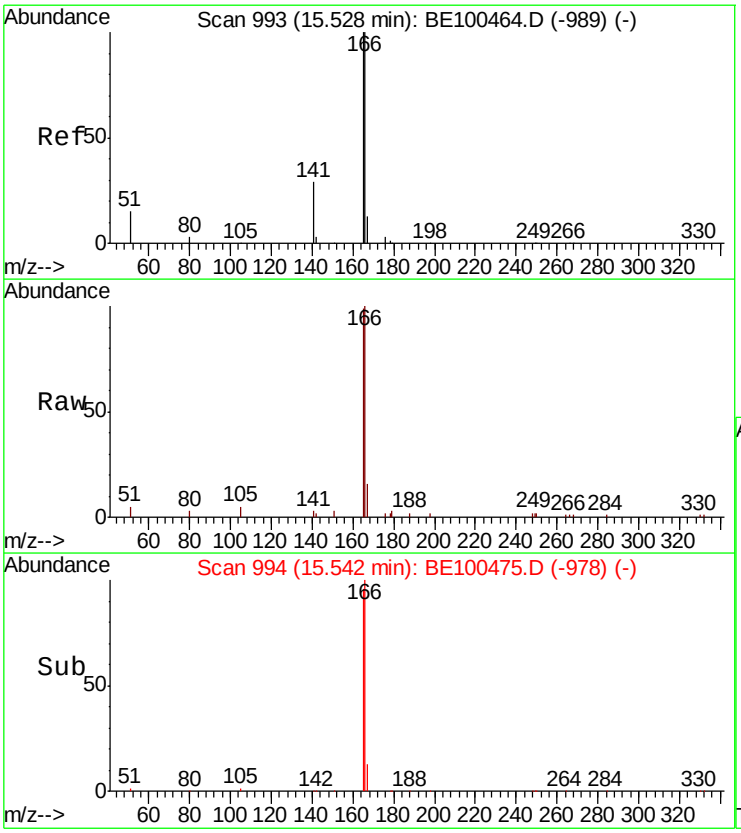
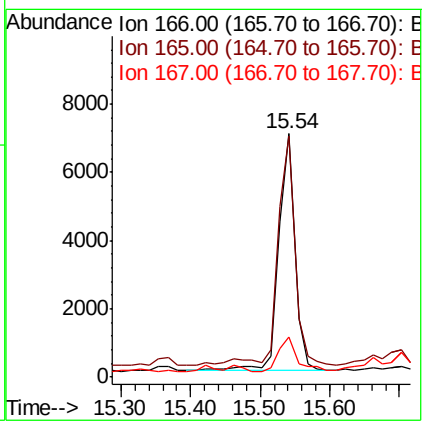
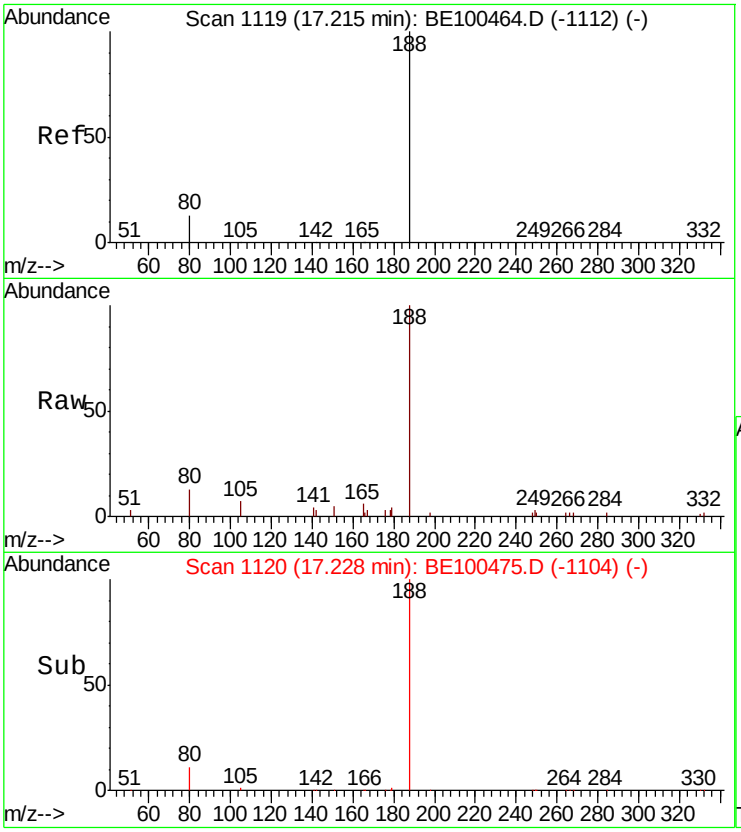



#18
Fluorene
Concen: 0.346 ng
RT: 15.54 min Scan# 994
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:166 Resp: 11256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 104.1 | 79.8 | 119.8 |
| 167 | 16.0 | 10.4 | 15.6# |






#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.23 min Scan# 1120
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:188 Resp: 19747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 13.4 | 10.7 | 16.1 |

**Instrument :**
BNA_E
**ClientSampleId :**
HJDC-COMP1DL

**Manual Integrations APPROVED**
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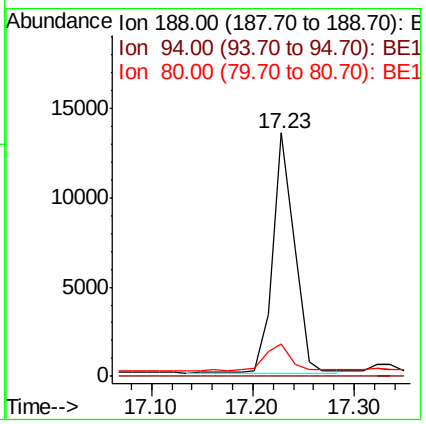
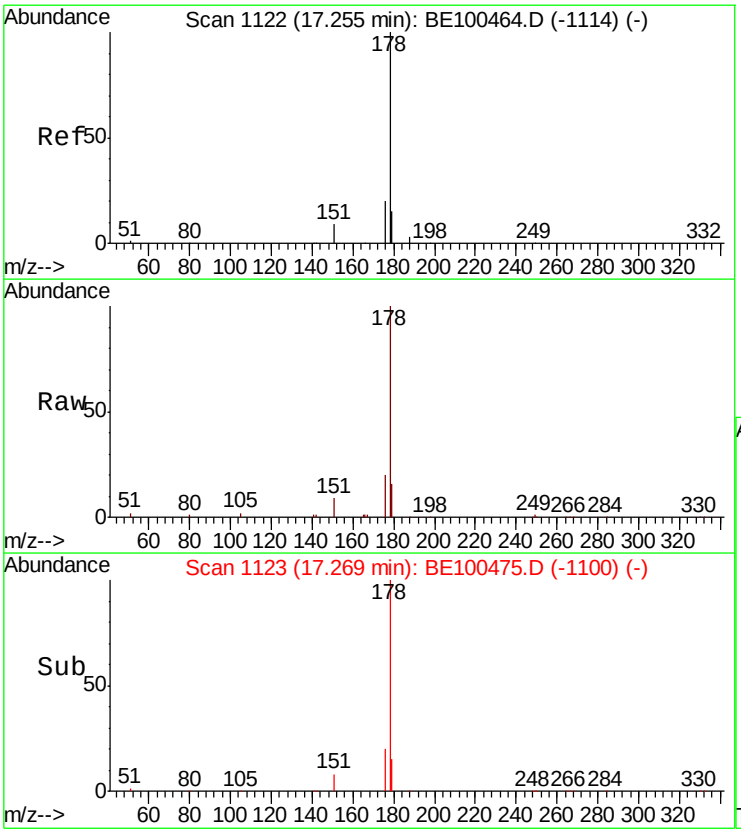
7/24/2019 8:30:05 AM

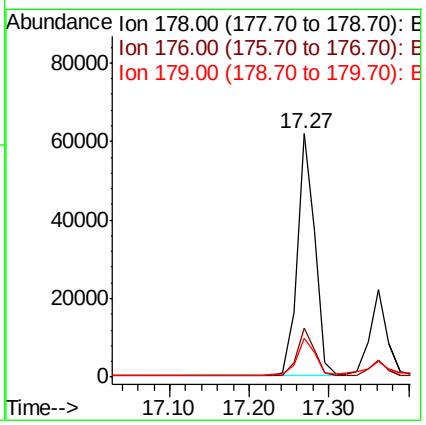


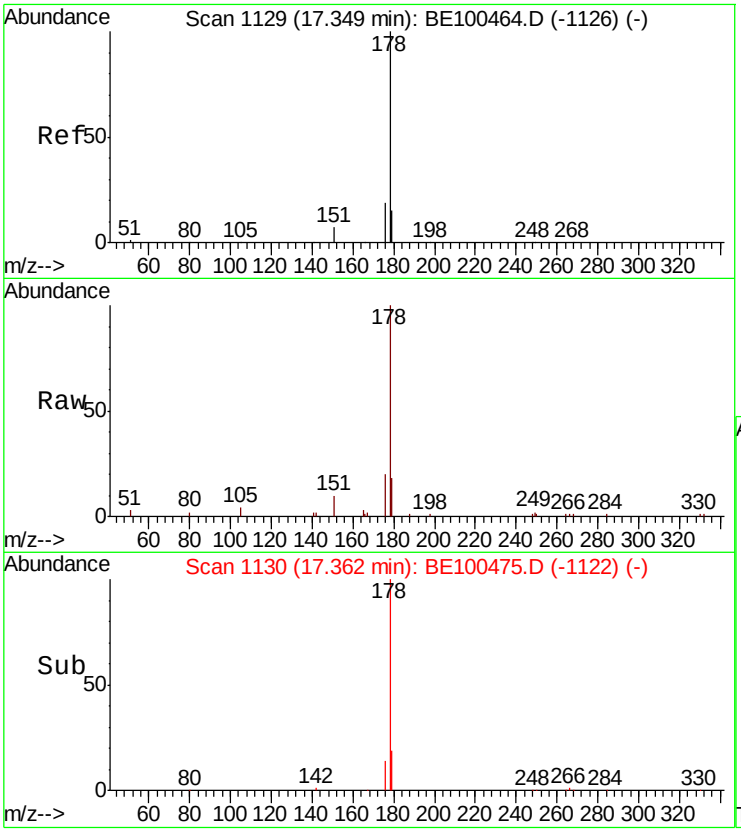




#23
Phenanthrene
Concen: 1.964 ng
RT: 17.27 min Scan# 1123
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:178 Resp: 95938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.5 | 23.3 |
| 179 | 15.9 | 12.5 | 18.7 |

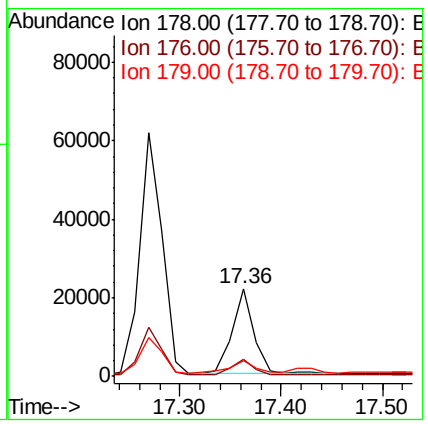





#24
Anthracene
Concen: 0.714 ng
RT: 17.36 min Scan# 1130
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:178 Resp: 32574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 15.0 | 22.6 |
| 179 | 17.3 | 12.2 | 18.2 |




**Instrument :**
BNA_E
**ClientSampleId :**
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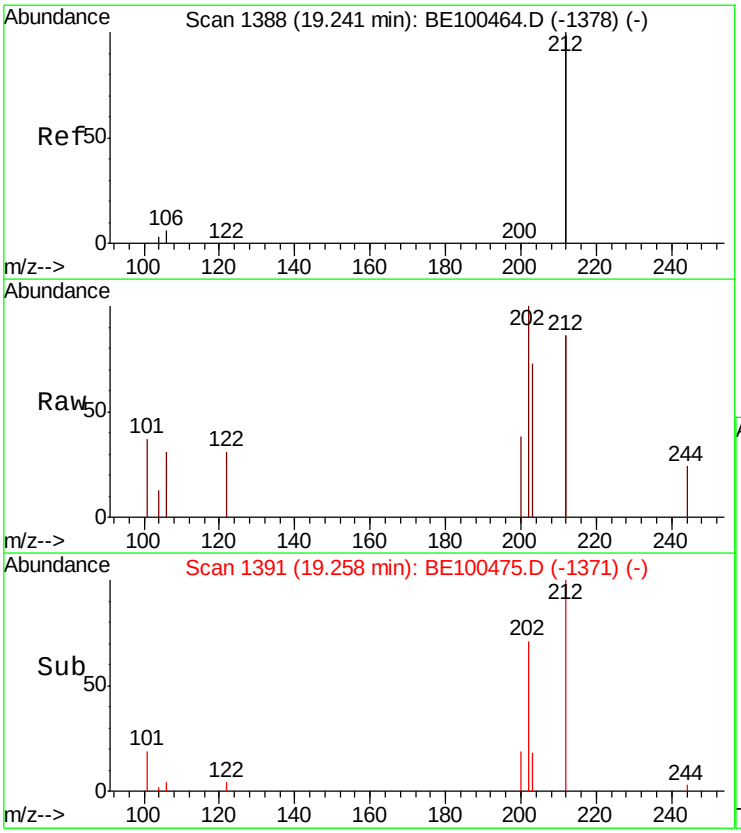
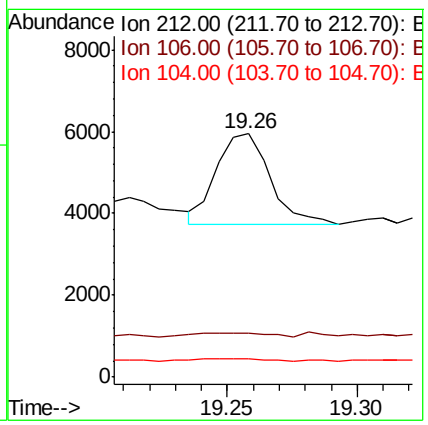
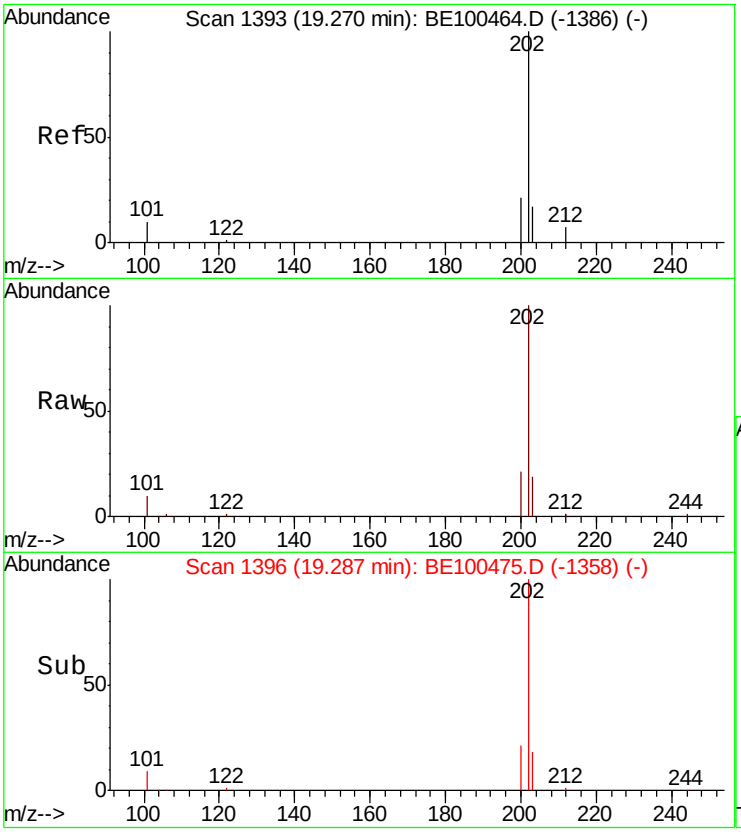



#25
Fluoranthene-d10
Concen: 0.011 ng
RT: 19.26 min Scan# 1391
Delta R.T. 0.02 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:212 Resp: 3130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 6.9 | 2.2 | 3.2# |
| 104 | 4.0 | 1.2 | 1.8# |

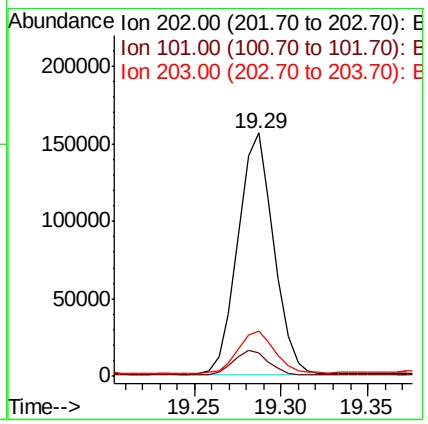





#26
Fluoranthene
Concen: 3.086 ng
RT: 19.29 min Scan# 1396
Delta R.T. 0.02 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:202 Resp: 224006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.3 | 8.3 | 12.5 |
| 203 | 17.5 | 13.6 | 20.4 |




**Instrument :**
BNA_E
**ClientSampleId :**
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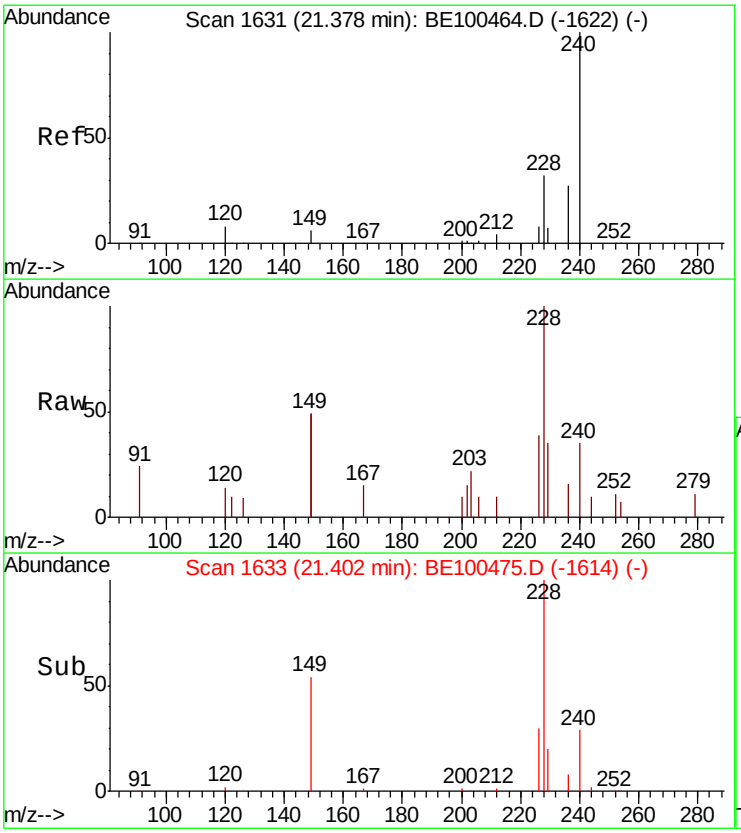
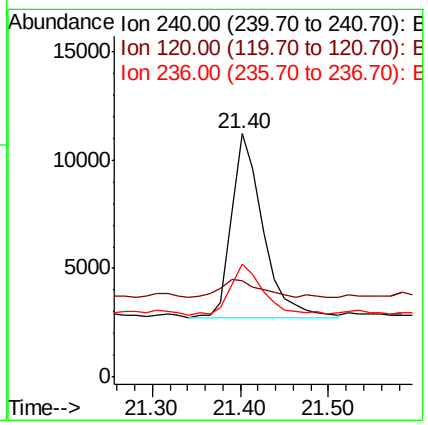
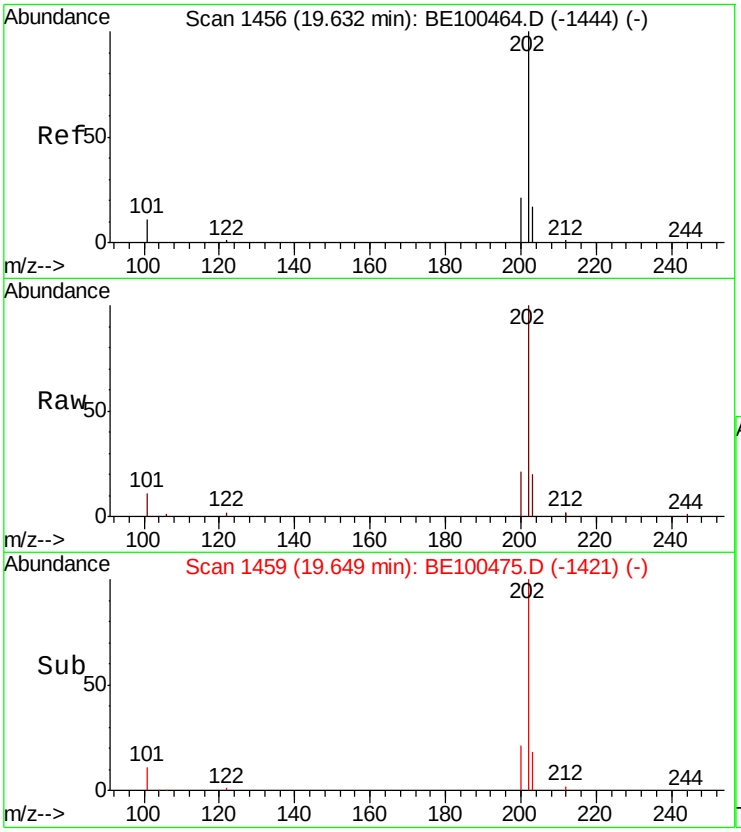



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.40 min Scan# 1633
Delta R.T. 0.02 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:240 Resp: 21008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 39.6 | 7.1 | 10.7# |
| 236 | 46.5 | 21.7 | 32.5# |






#28
Pyrene
Concen: 3.251 ng
RT: 19.65 min Scan# 1459
Delta R.T. 0.02 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:202 Resp: 200810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 16.7 | 25.1 |
| 203 | 23.7 | 13.8 | 20.8# |

**Instrument :**
BNA_E
**ClientSampleId :**
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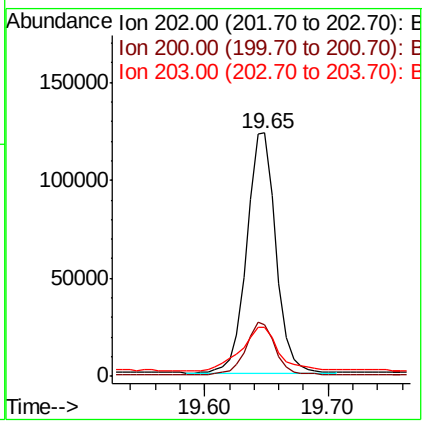
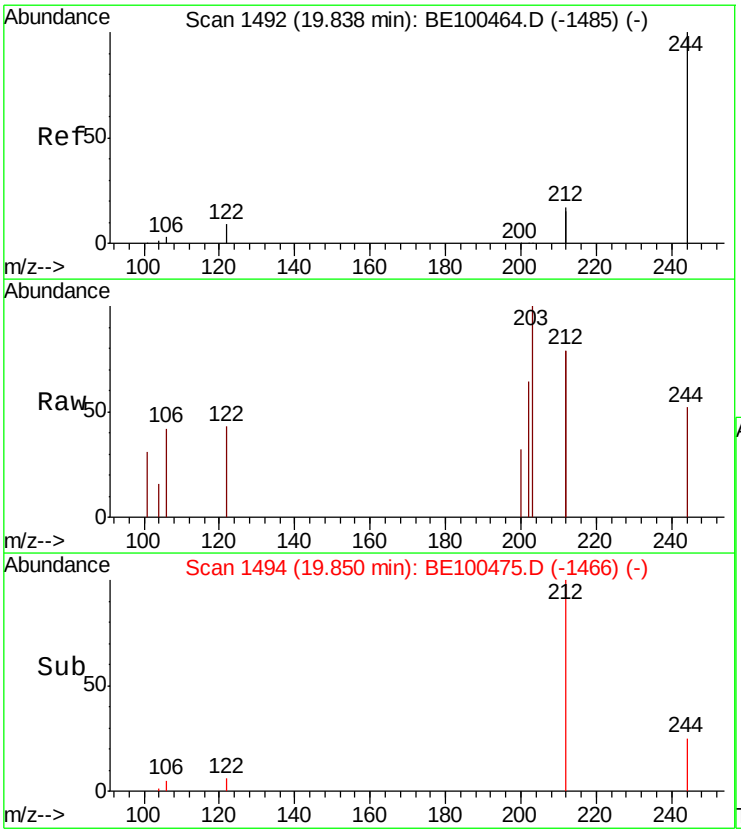
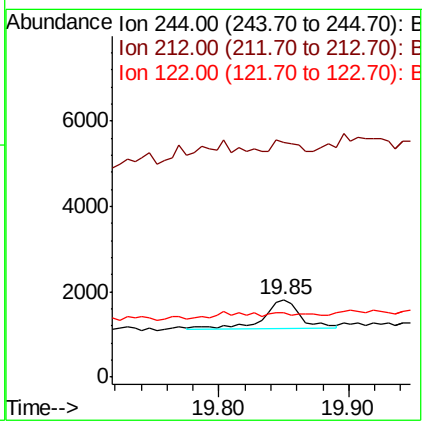


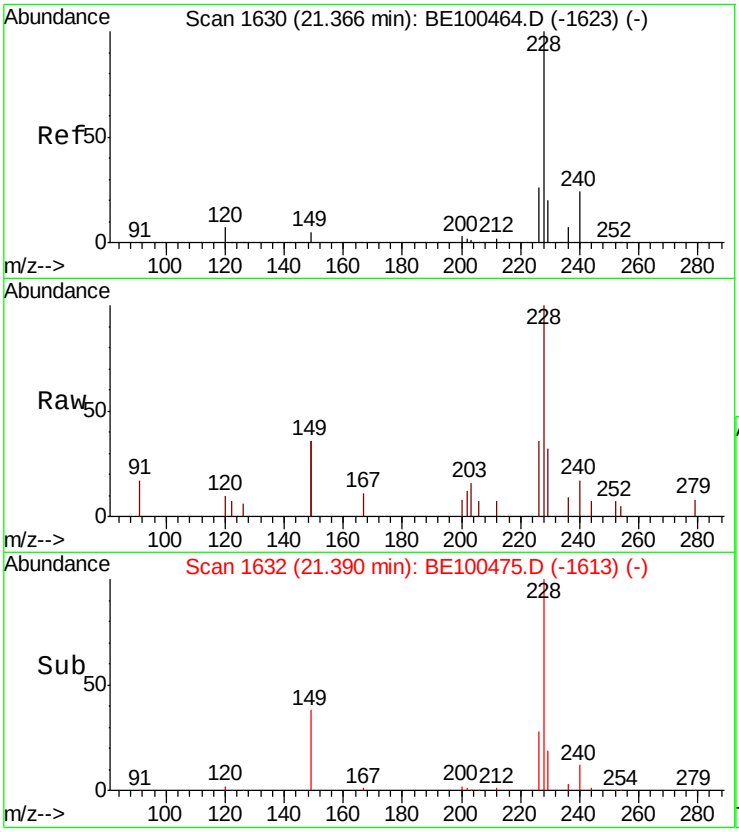




#29
Terphenyl-d14
Concen: 0.028 ng
RT: 19.85 min Scan# 1494
Delta R.T. 0.01 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:244 Resp: 1378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 302.3 | 26.6 | 40.0# |
| 122 | 83.0 | 7.6 | 11.4# |






#30
Benzo(a)anthracene
Concen: 1.621 ng
RT: 21.39 min Scan# 1632
Delta R.T. 0.02 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:228 Resp: 103851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 36.0 | 21.3 | 31.9# |
| 229 | 31.5 | 16.6 | 25.0# |

**Instrument :**
BNA_E
**ClientSampleId :**
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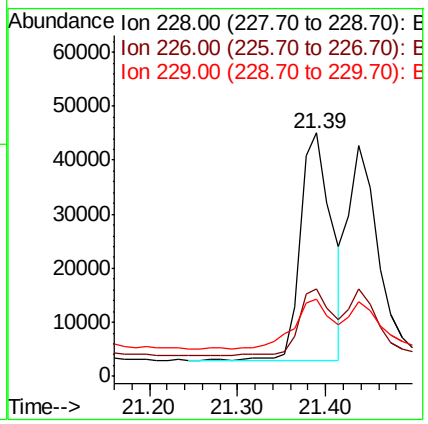
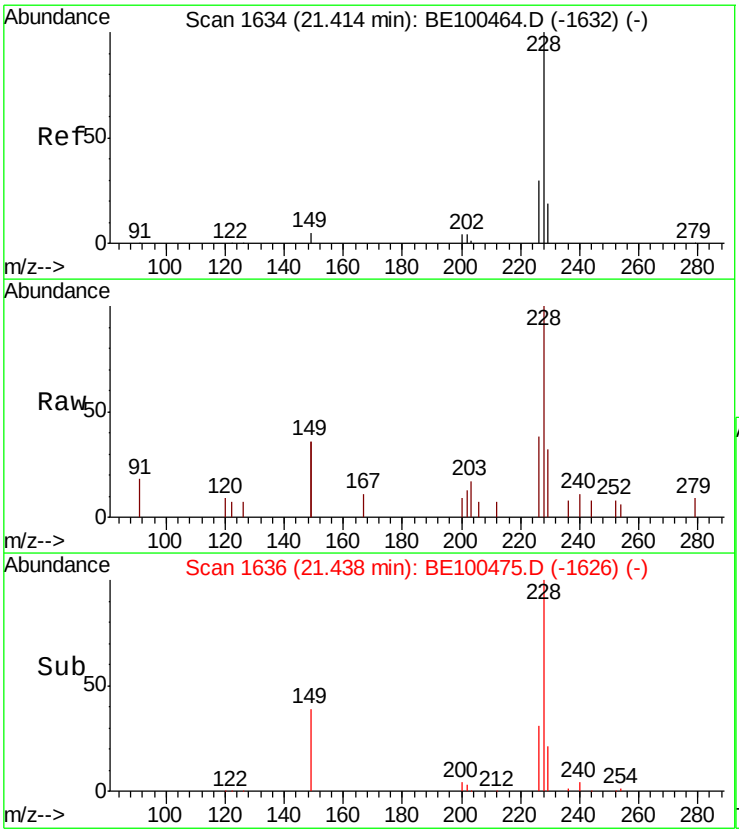
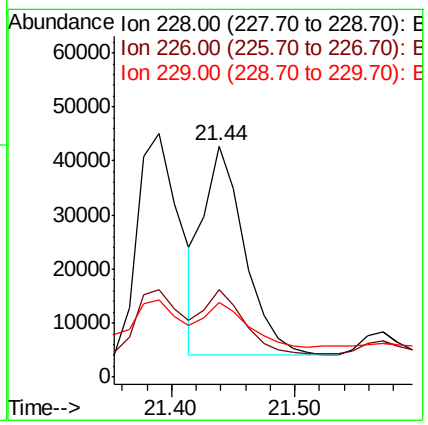


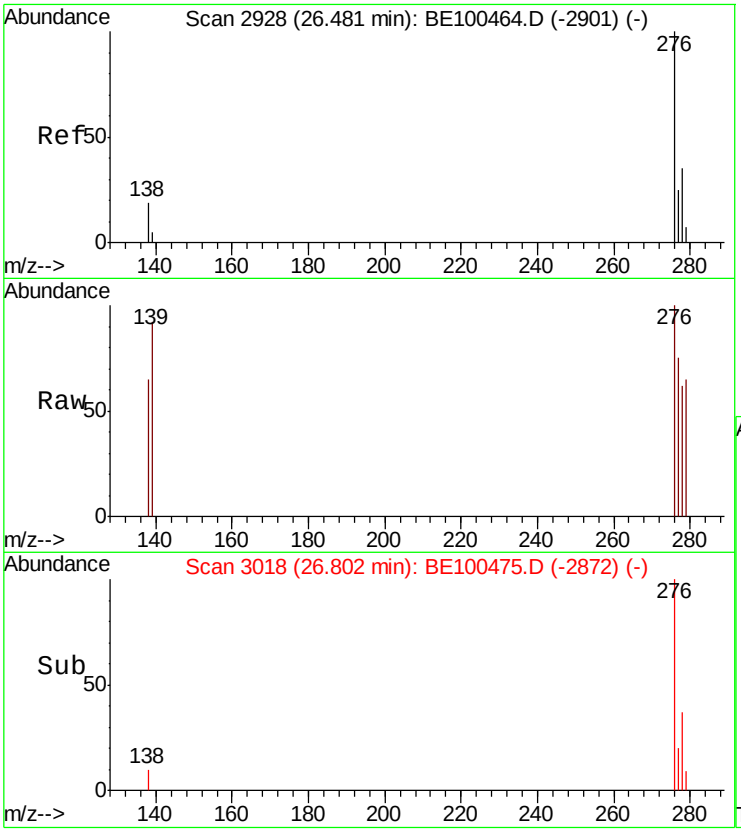




#31
Chrysene
Concen: 1.394 ng
RT: 21.44 min Scan# 1636
Delta R.T. 0.02 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:228 Resp: 89076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 37.9 | 24.5 | 36.7# |
| 229 | 32.3 | 16.0 | 24.0# |






#33
Indeno(1,2,3-cd)pyrene
Concen: 0.511 ng m
RT: 26.80 min Scan# 3018
Delta R.T. 0.32 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:276 Resp: 35321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 0.2 | 17.4 | 26.0# |
| 277 | 0.0 | 19.4 | 29.0# |

**Instrument :**
BNA_E
**ClientSampleId :**
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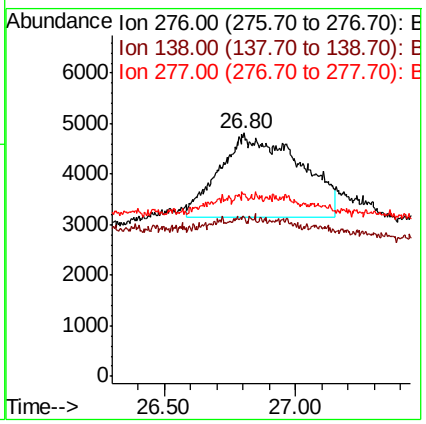
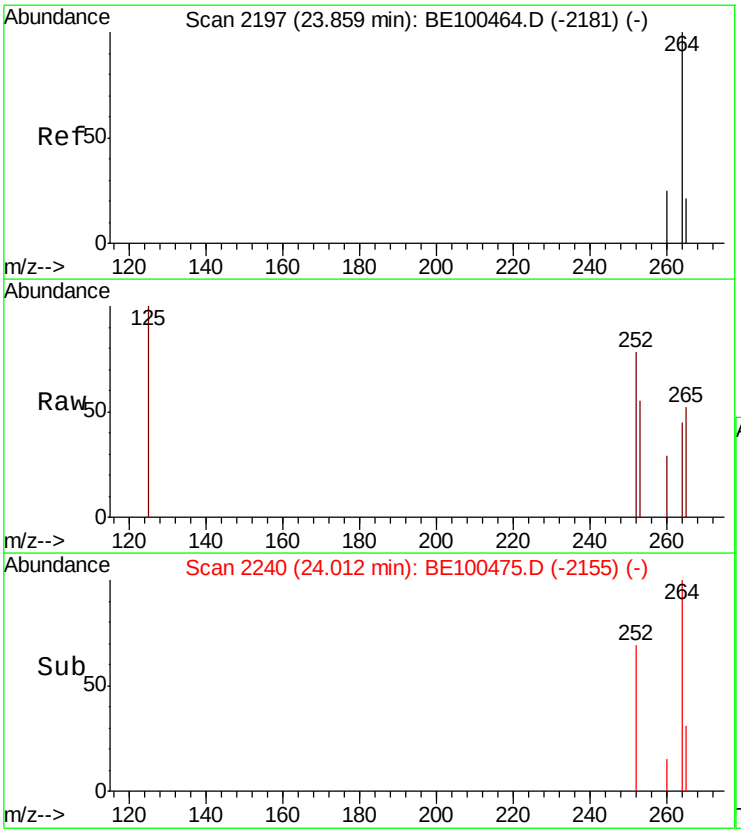
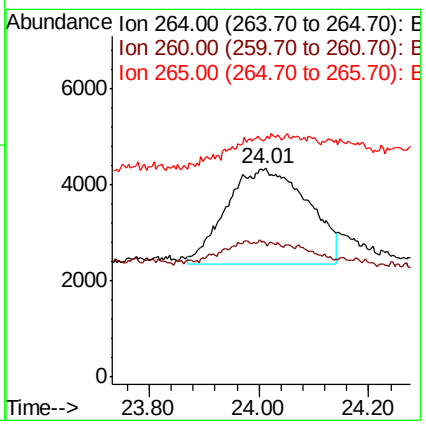


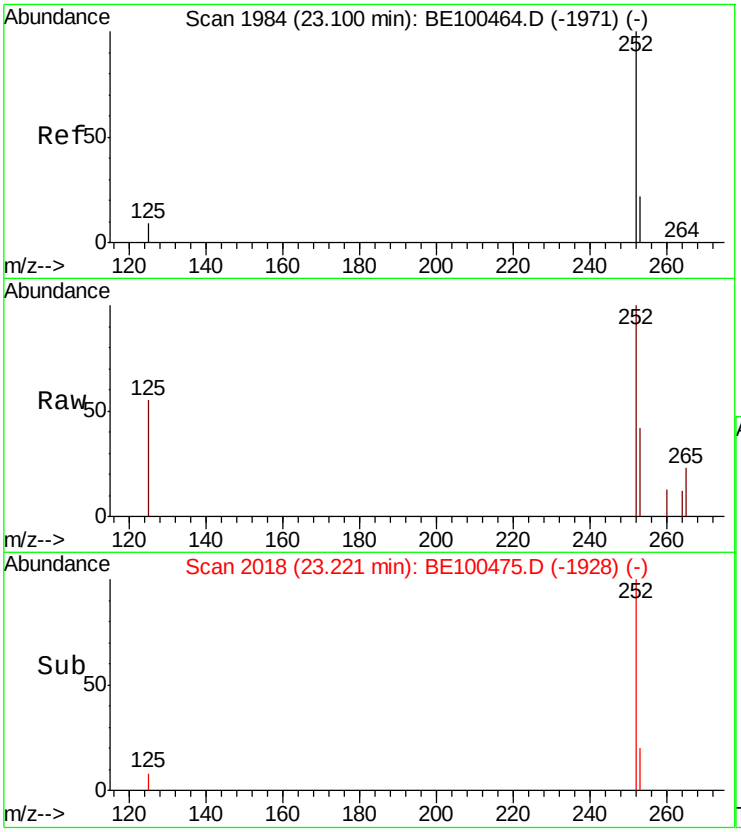




#34
Perylene-d12
Concen: 0.400 ng m
RT: 24.01 min Scan# 2240
Delta R.T. 0.15 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:264 Resp: 20408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 64.2 | 20.7 | 31.1# |
| 265 | 114.7 | 23.4 | 35.0# |






#35
Benzo(b)fluoranthene
Concen: 1.765 ng m
RT: 23.22 min Scan# 2018
Delta R.T. 0.12 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:252 Resp: 99506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 42.2 | 18.5 | 27.7# |
| 125 | 55.0 | 9.0 | 13.4# |

**Instrument :**
BNA_E
**ClientSampleId :**
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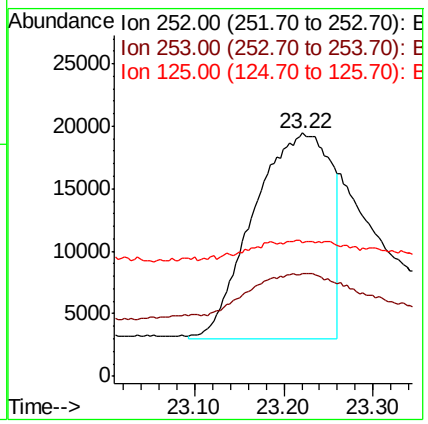
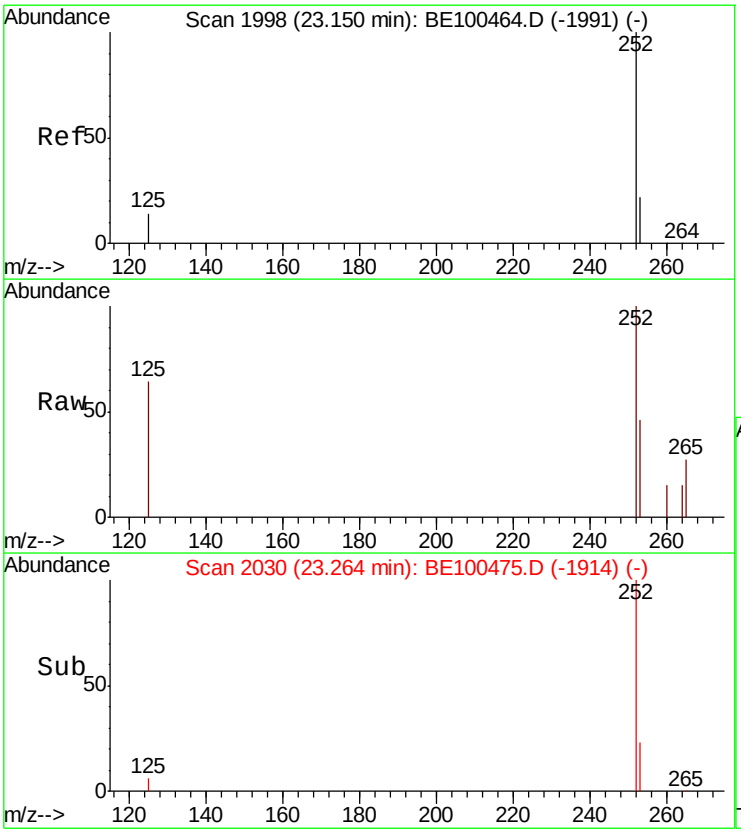
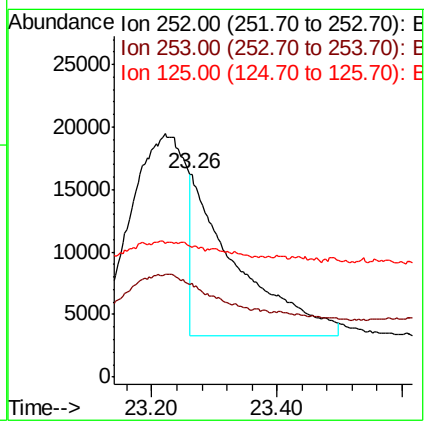


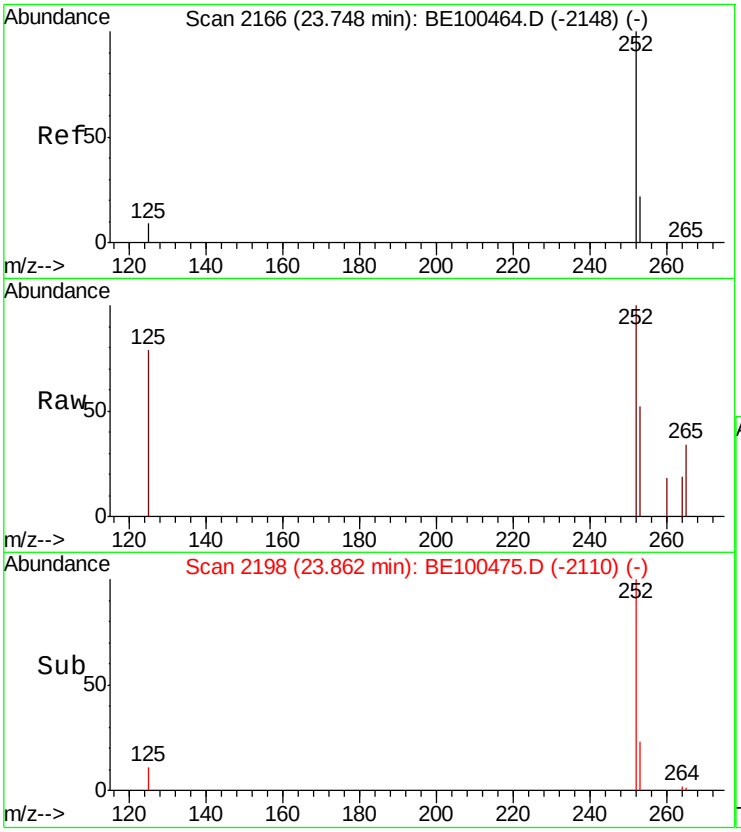




#36
Benzo(k)fluoranthene
Concen: 1.111 ng m
RT: 23.26 min Scan# 2030
Delta R.T. 0.11 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:252 Resp: 66540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 46.3 | 19.0 | 28.4# |
| 125 | 64.1 | 11.8 | 17.8# |






#37
Benzo(a)pyrene
Concen: 2.227 ng
RT: 23.86 min Scan# 2198
Delta R.T. 0.11 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:252 Resp: 121126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 52.4 | 19.1 | 28.7# |
| 125 | 79.1 | 10.0 | 15.0# |

**Instrument :**
BNA_E
**ClientSampleId :**
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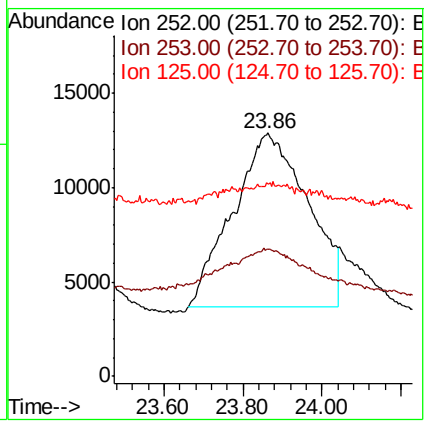


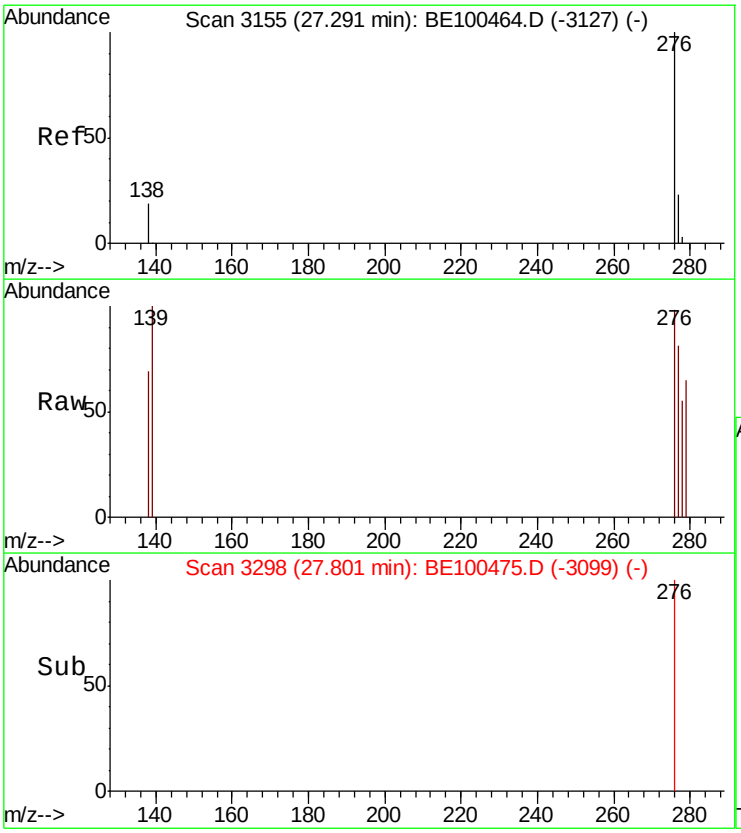


#39
Benzo(g,h,i)perylene
Concen: 0.565 ng m
RT: 27.80 min Scan# 3298
Delta R.T. 0.51 min
Lab File: BE100475.D
Acq: 19 Jul 2019 18:28

Tgt Ion:276 Resp: 29815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 82.0 | 19.9 | 29.9# |
| 138 | 70.3 | 16.7 | 25.1# |