

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082919\  
 Data File : BN007498.D  
 Acq On : 29 Aug 2019 11:56  
 Operator : HP/JU  
 Sample : K4524-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 TT-013-IDWSO-20190823

Quant Time: Aug 29 12:39:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 29 12:18:45 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 6626     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.15 | 136  | 26891    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.03 | 164  | 15386    | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 16.79 | 188  | 38524    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.02 | 240  | 73526    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.12 | 264  | 86975    | 0.40 | ng    | 0.00     |

|                             |       |     |        |      |    |       |
|-----------------------------|-------|-----|--------|------|----|-------|
| System Monitoring Compounds |       |     |        |      |    |       |
| 4) 2-Fluorophenol           | 5.03  | 112 | 7179   | 0.31 | ng | 0.00  |
| 5) Phenol-d6                | 6.58  | 99  | 12348  | 0.42 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.53  | 82  | 7592   | 0.32 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 11.75 | 152 | 12526  | 0.28 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.54 | 330 | 6032   | 0.75 | ng | -0.02 |
| 15) 2-Fluorobiphenyl        | 12.65 | 172 | 22125  | 0.36 | ng | 0.00  |
| 25) Fluoranthene-d10        | 18.83 | 212 | 28379  | 0.23 | ng | -0.01 |
| 29) Terphenyl-d14           | 19.46 | 244 | 500557 | 2.60 | ng | 0.00  |

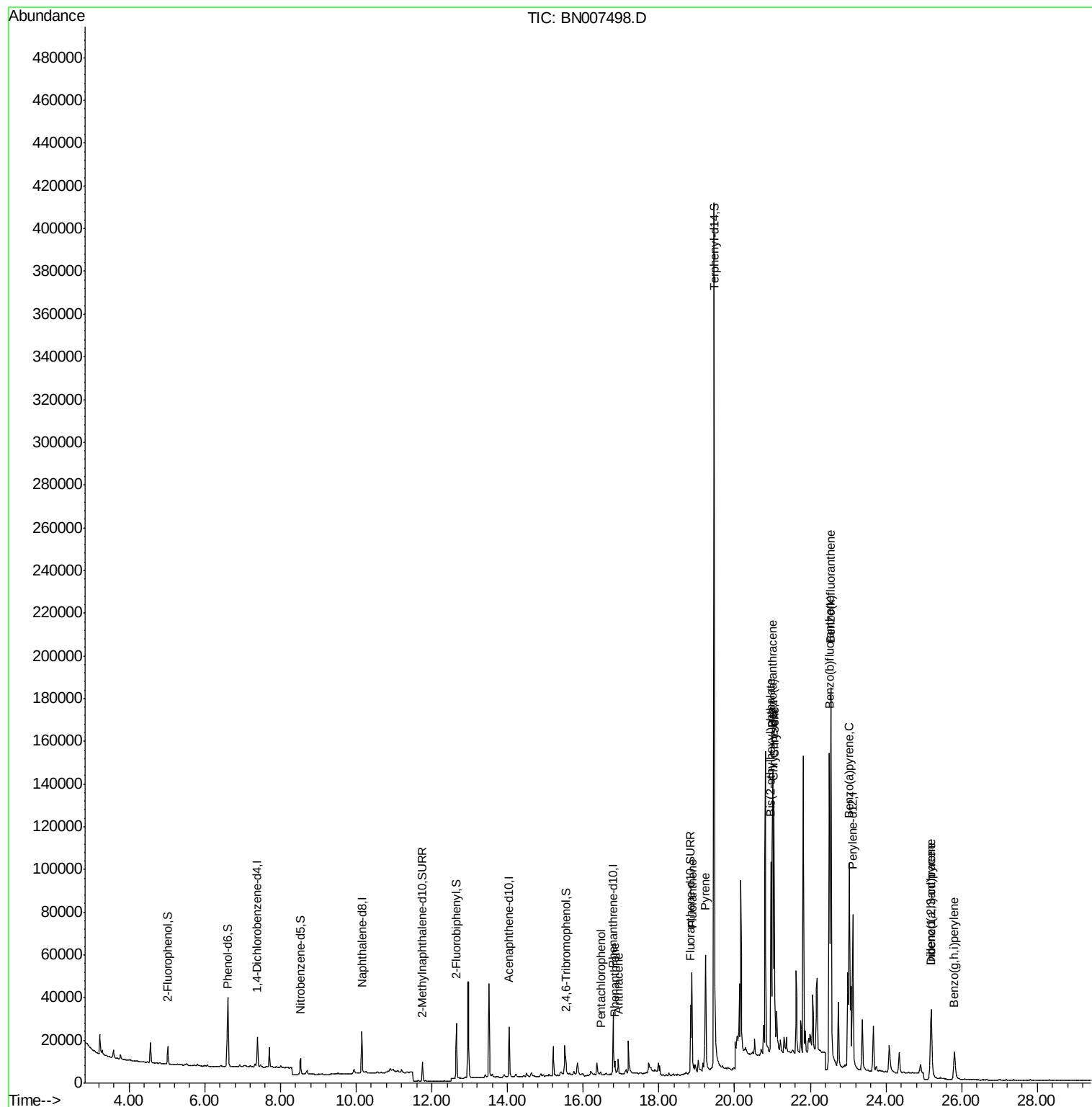
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 22) Pentachlorophenol          | 16.46 | 266 | 564    | 0.070  | ng | # 73 |
| 23) Phenanthrene               | 16.84 | 178 | 7780   | 0.067  | ng | 98   |
| 24) Anthracene                 | 16.92 | 178 | 5236   | 0.045  | ng | 98   |
| 26) Fluoranthene               | 18.87 | 202 | 56663  | 0.381  | ng | 97   |
| 28) Pyrene                     | 19.23 | 202 | 59897  | 0.203  | ng | 98   |
| 30) Benzo(a)anthracene         | 21.00 | 228 | 100798 | 0.349  | ng | 100  |
| 31) Chrysene                   | 21.05 | 228 | 114812 | 0.412  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 20.96 | 149 | 90173  | 0.464  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.19 | 276 | 43640  | 0.130  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 22.50 | 252 | 188534 | 0.598  | ng | # 95 |
| 36) Benzo(k)fluoranthene       | 22.54 | 252 | 193753 | 0.622  | ng | # 84 |
| 37) Benzo(a)pyrene             | 23.03 | 252 | 146511 | 0.489  | ng | # 95 |
| 38) Dibenzo(a,h)anthracene     | 25.20 | 278 | 30356  | 0.101  | ng | 98   |
| 39) Benzo(g,h,i)perylene       | 25.81 | 276 | 28511  | 0.096  | ng | 97   |

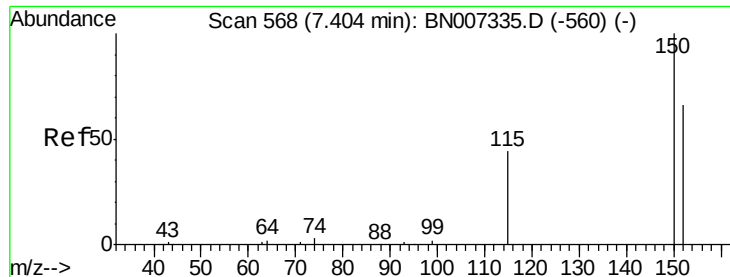
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082319\  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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TT-013-IDWSO-20190823

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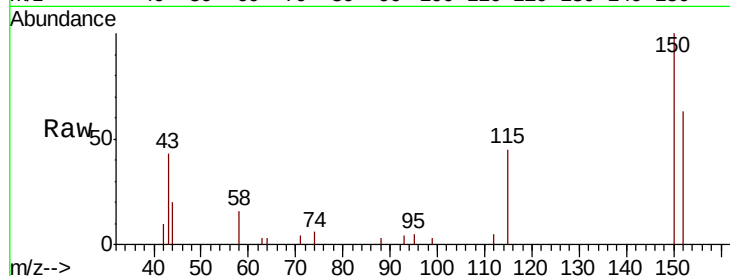


#1

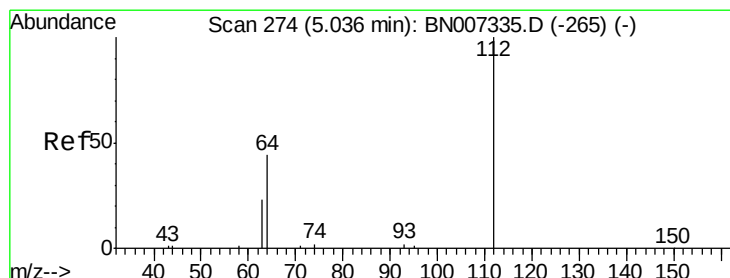
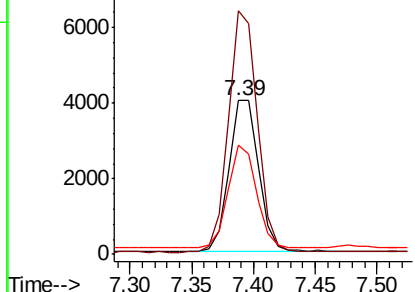
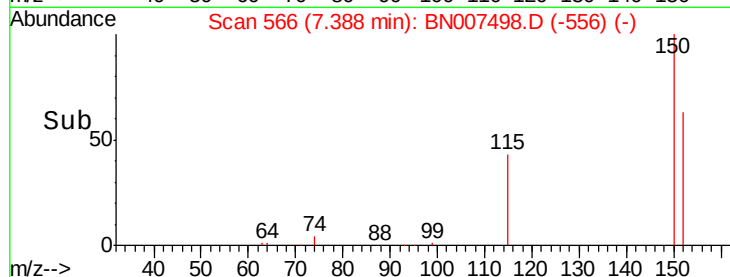
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.39 min Scan# 566  
Delta R.T. -0.02 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Instrument :  
BNA\_N  
ClientSampleId :  
TT-013-IDWSO-20190823

Tot Ion:152 Resp: 6626  
Ion Ratio Lower Upper  
152 100  
150 158.2 109.1 163.7  
115 71.4 59.6 89.4



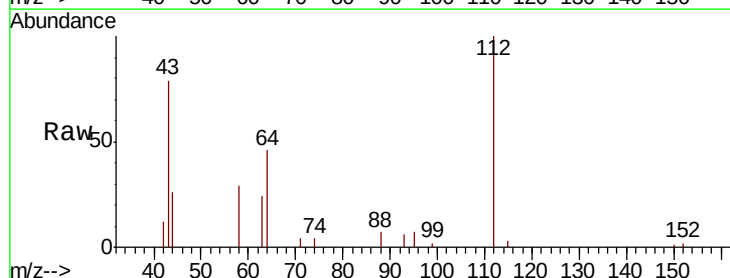
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



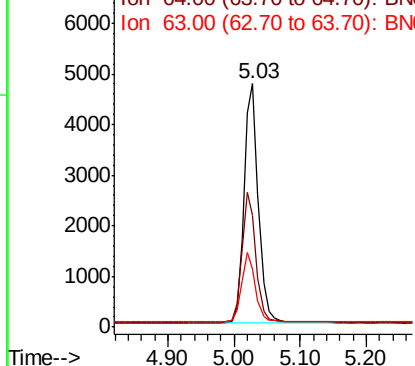
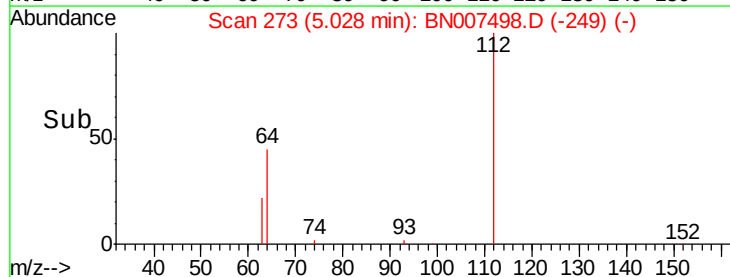
#4

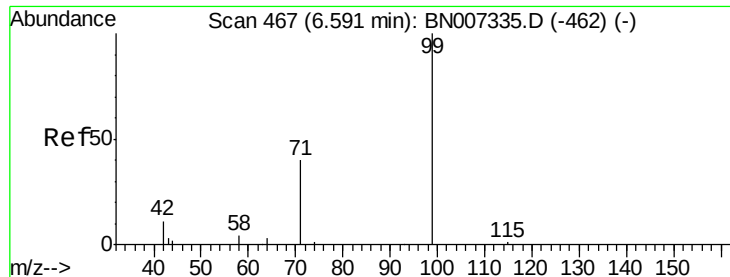
2-Fluorophenol  
Concen: 0.305 ng  
RT: 5.03 min Scan# 273  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Tgt Ion:112 Resp: 7179  
Ion Ratio Lower Upper  
112 100  
64 54.2 42.3 63.5  
63 28.0 23.6 35.4



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BNC  
Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.424 ng

RT: 6.58 min Scan# 466

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

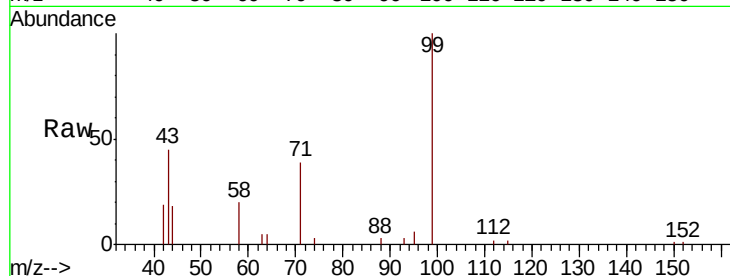
Tot Ion: 99 Resp: 12348

Ion Ratio Lower Upper

99 100

42 0.0 11.2 16.8#

71 34.3 31.8 47.8

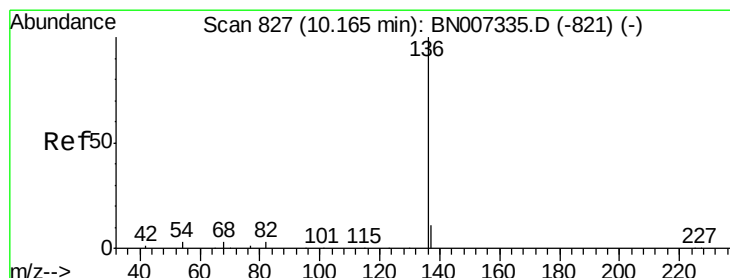
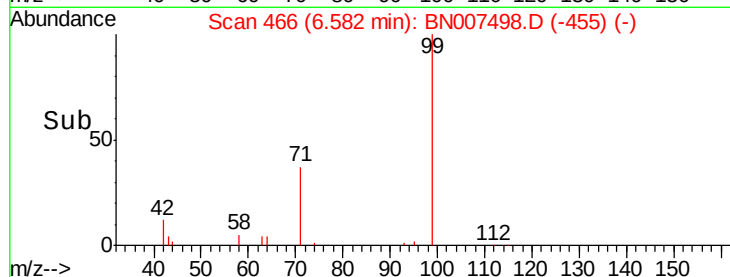
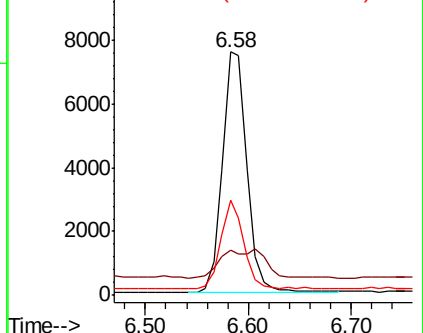


Abundance

Ion 99.00 (98.70 to 99.70): BN007335.D (-462) (-)

Ion 42.00 (41.70 to 42.70): BN007335.D (-462) (-)

Ion 71.00 (70.70 to 71.70): BN007335.D (-462) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Tgt Ion: 136 Resp: 26891

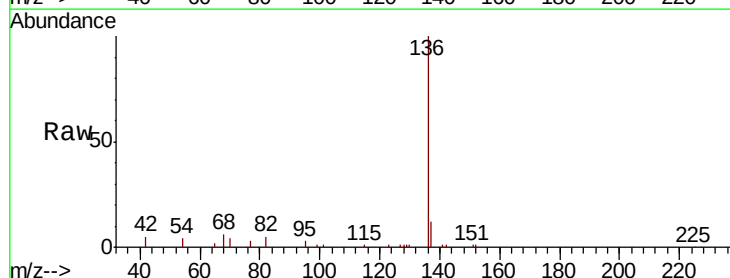
Ion Ratio Lower Upper

136 100

137 11.7 12.9 19.3#

54 4.4 8.6 12.8#

68 6.3 17.0 25.4#



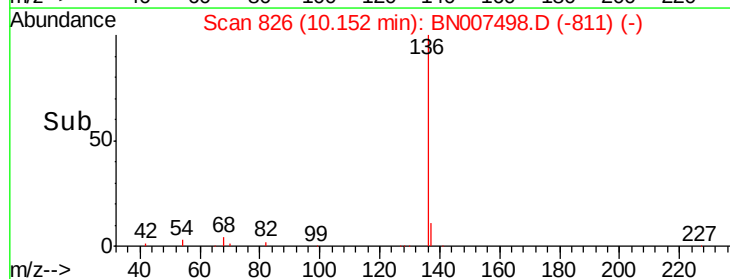
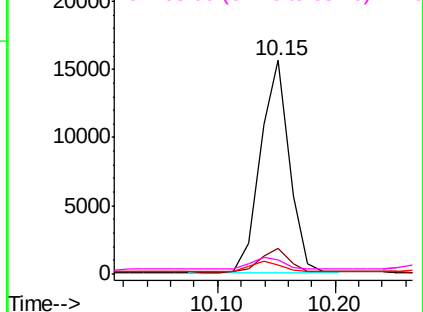
Abundance

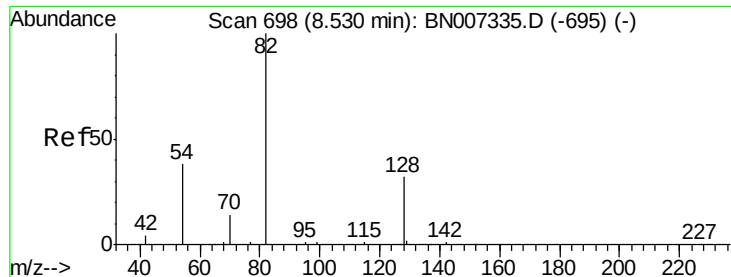
Ion 136.00 (135.70 to 136.70): BN007335.D (-821) (-)

Ion 137.00 (136.70 to 137.70): BN007335.D (-821) (-)

Ion 54.00 (53.70 to 54.70): BN007335.D (-821) (-)

Ion 68.00 (67.70 to 68.70): BN007335.D (-821) (-)

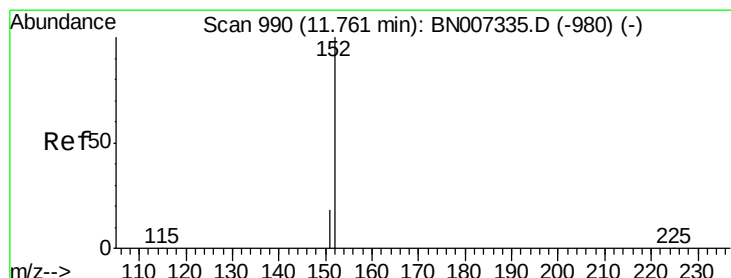
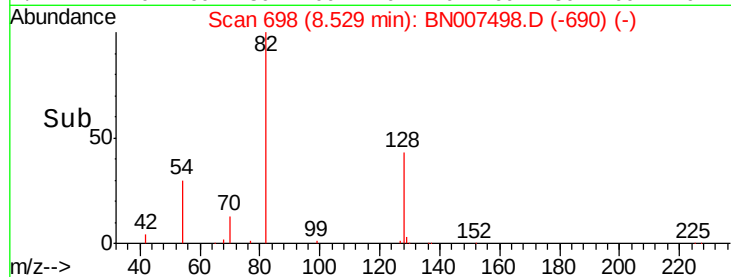
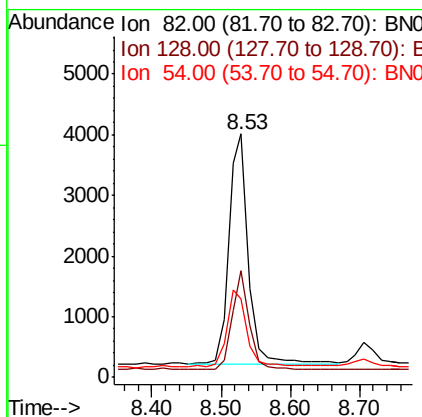
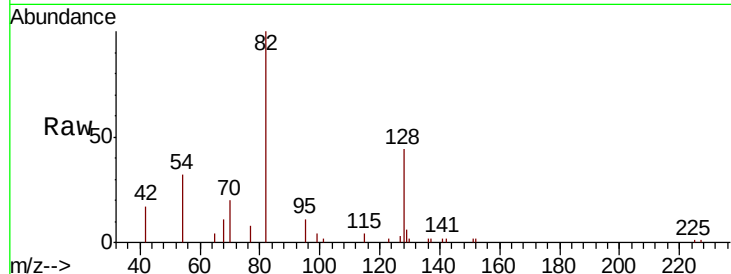




#8  
 Nitrobenzene-d5  
 Concen: 0.324 ng  
 RT: 8.53 min Scan# 698  
 Delta R.T. 0.00 min  
 Lab File: BN007498.D  
 Acq: 29 Aug 2019 11:56

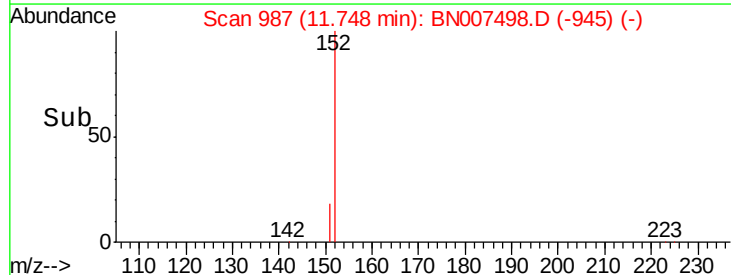
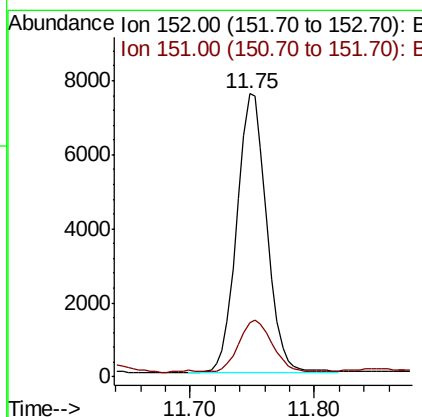
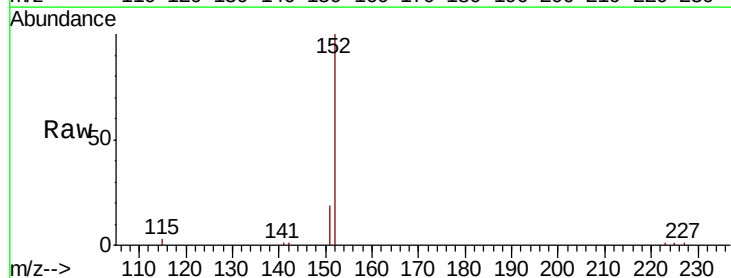
Instrument :  
 BNA\_N  
 ClientSampleId :  
 TT-013-IDWSO-20190823

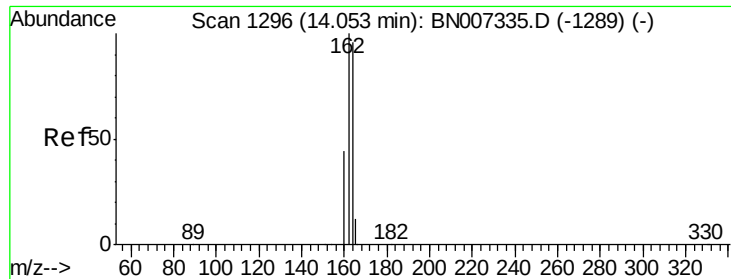
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.9  | 19.7  | 29.5# |
| 54      | 32.3  | 25.8  | 38.6  |



#11  
 2-Methylnaphthalene-d10  
 Concen: 0.280 ng  
 RT: 11.75 min Scan# 987  
 Delta R.T. -0.01 min  
 Lab File: BN007498.D  
 Acq: 29 Aug 2019 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.2  | 24.2  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.03 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

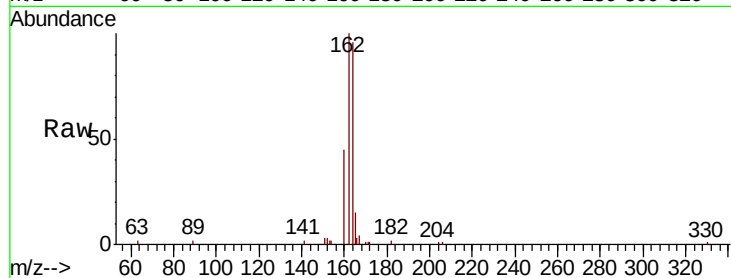
Tot Ion:164 Resp: 15386

Ion Ratio Lower Upper

164 100

162 103.8 83.5 125.3

160 47.2 38.2 57.4

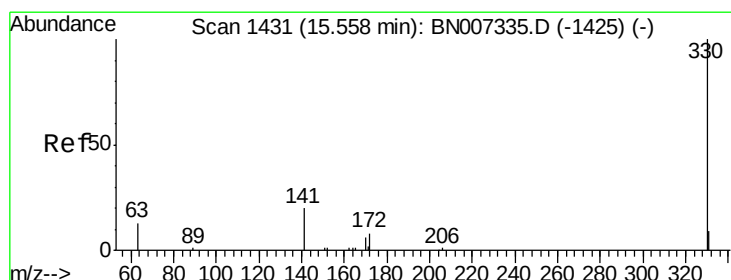
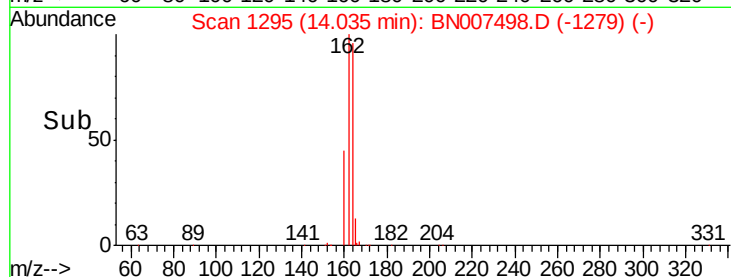
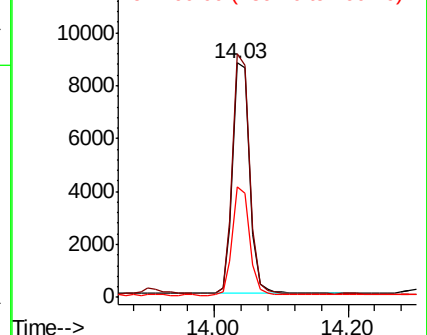


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.749 ng

RT: 15.54 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

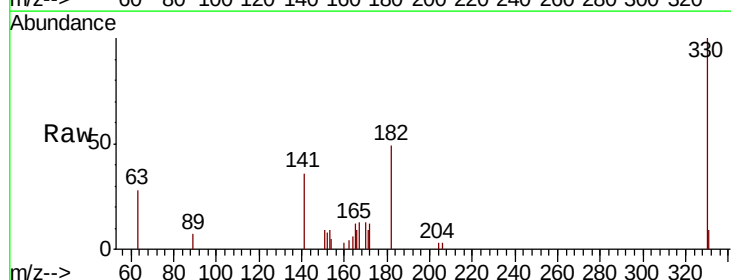
Tgt Ion:330 Resp: 6032

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.9 26.9 40.3

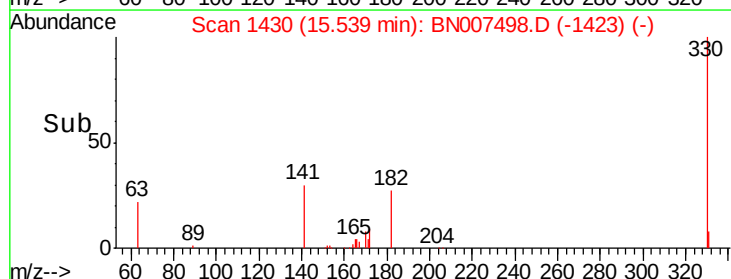
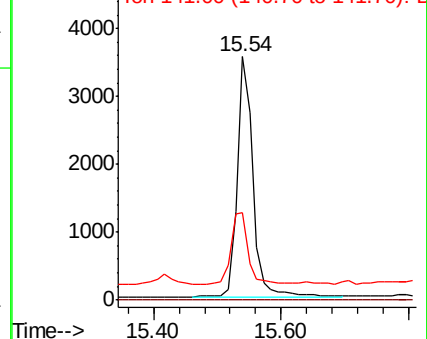


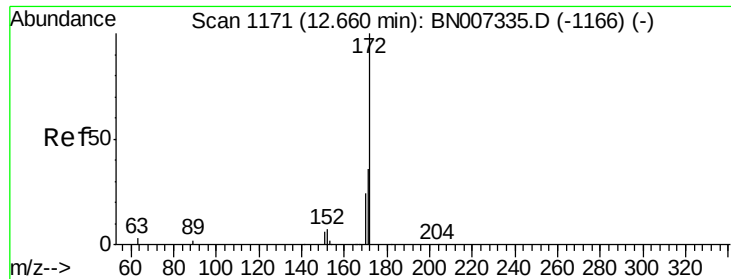
Abundance

Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

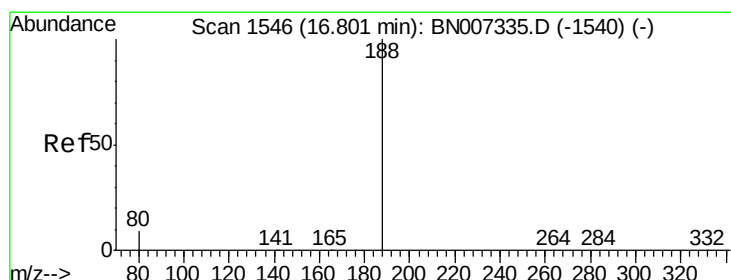
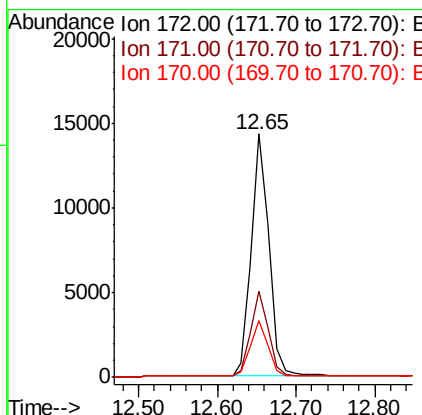
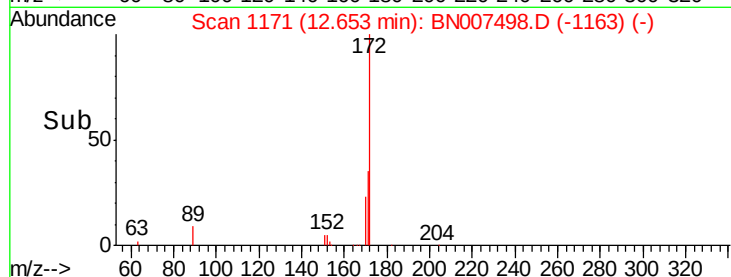
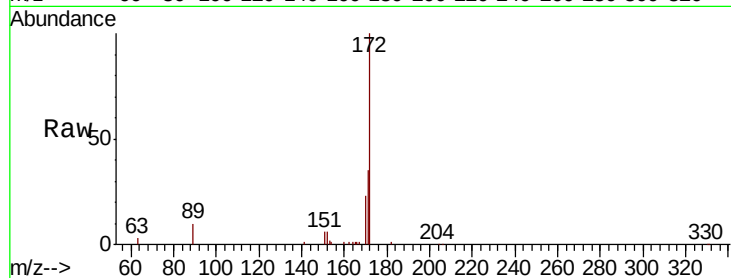




#15  
2-Fluorobiphenyl  
Concen: 0.357 ng  
RT: 12.65 min Scan# 1171  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

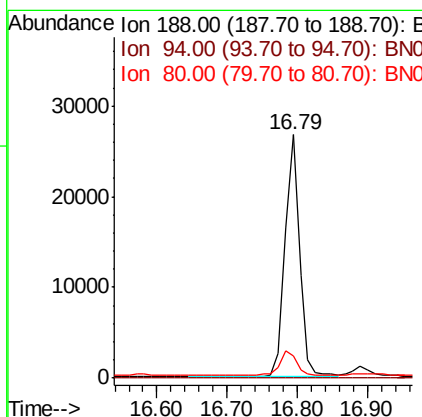
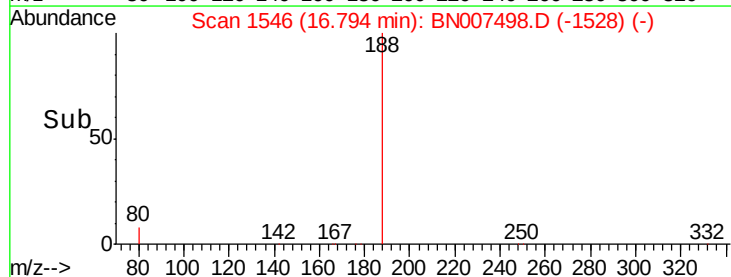
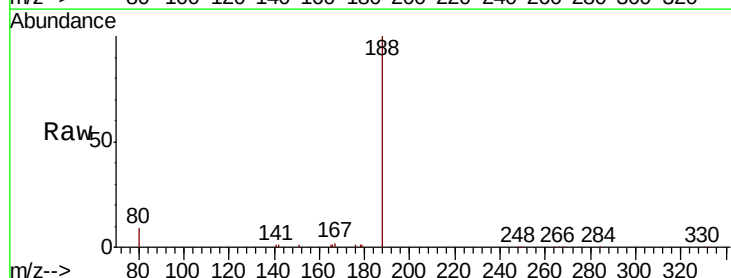
Instrument :  
BNA\_N  
ClientSampleId :  
TT-013-IDWSO-20190823

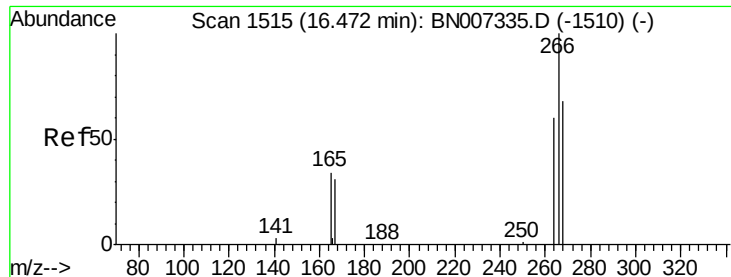
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 30.3  | 45.5  |
| 170     | 23.2  | 20.7  | 31.1  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.79 min Scan# 1546  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 9.3   | 11.8  | 17.8# |





#22

Pentachlorophenol

Concen: 0.070 ng

RT: 16.46 min Scan# 1515

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

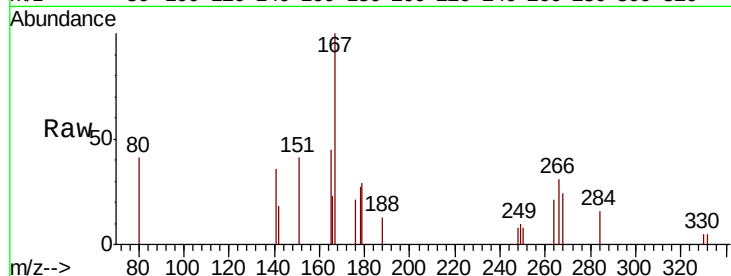
Tot Ion:266 Resp: 564

Ion Ratio Lower Upper

266 100

264 69.0 57.8 86.8

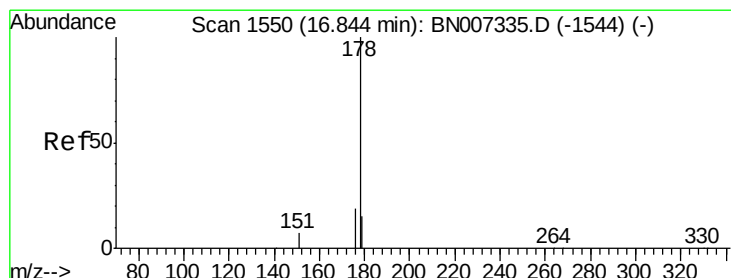
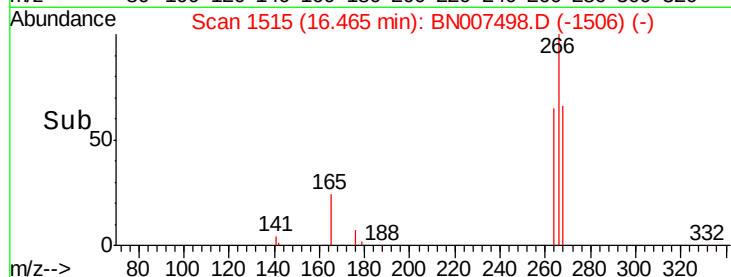
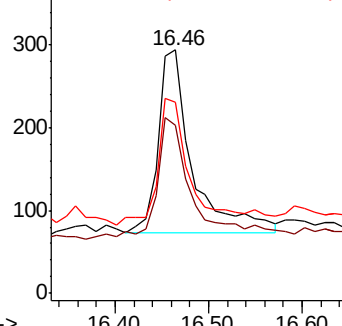
268 78.6 99.7 149.5#



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 0.067 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

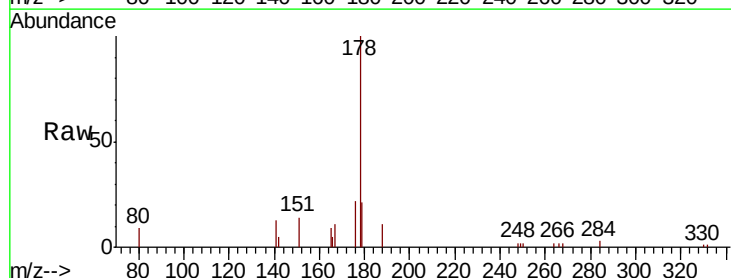
Tgt Ion:178 Resp: 7780

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

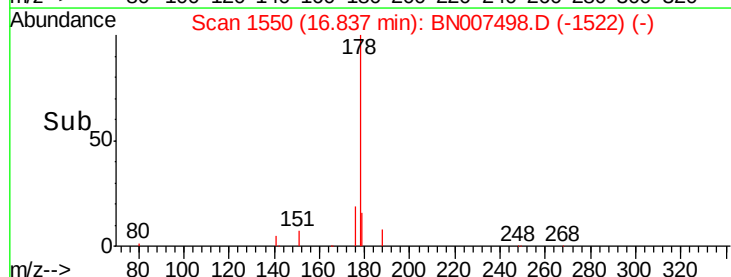
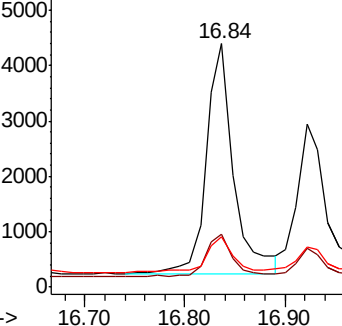
179 17.0 12.6 19.0



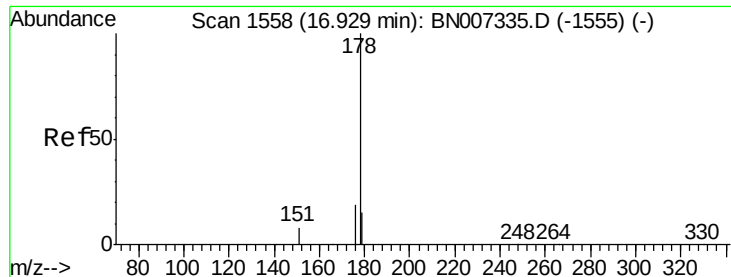
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#24

Anthracene

Concen: 0.045 ng

RT: 16.92 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

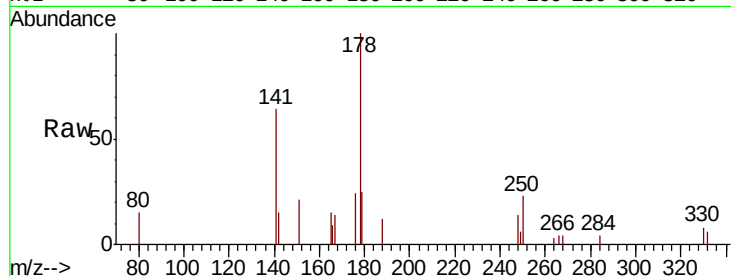
Tot Ion:178 Resp: 5236

Ion Ratio Lower Upper

178 100

176 17.6 14.9 22.3

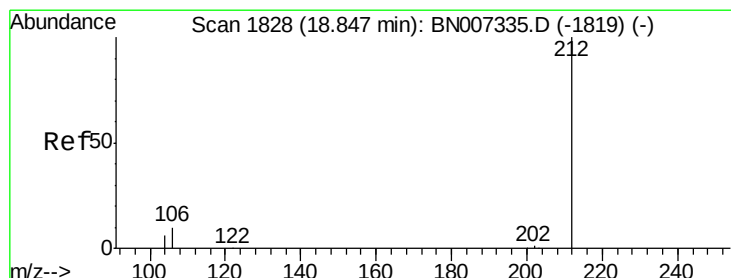
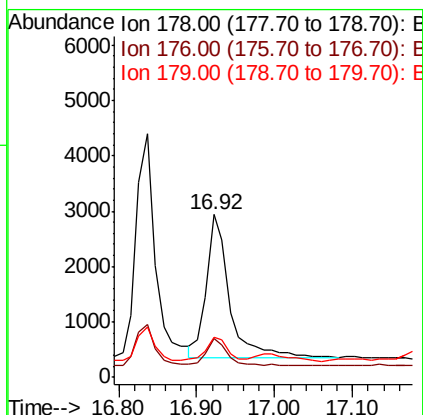
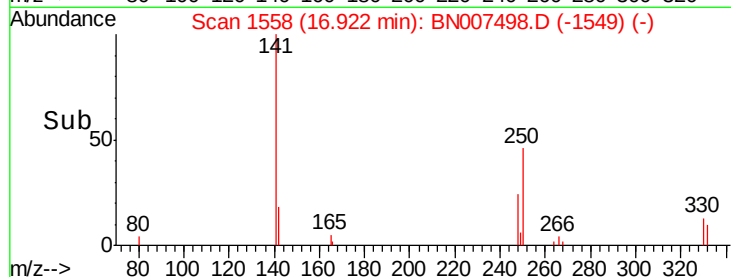
179 14.8 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.229 ng

RT: 18.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

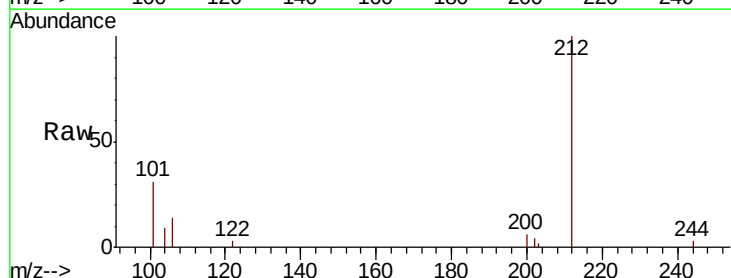
Tgt Ion:212 Resp: 28379

Ion Ratio Lower Upper

212 100

106 11.9 9.0 13.4

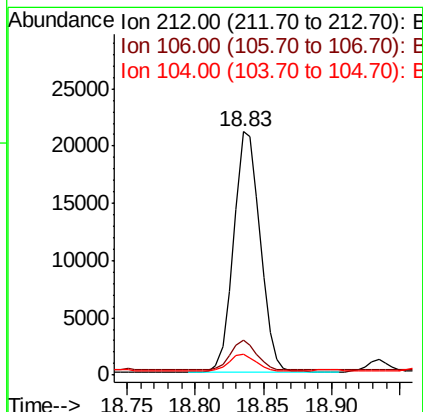
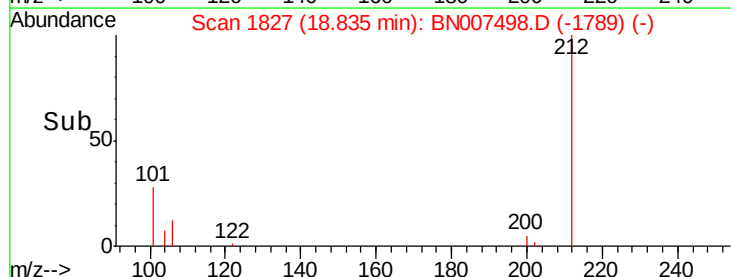
104 6.9 5.4 8.2

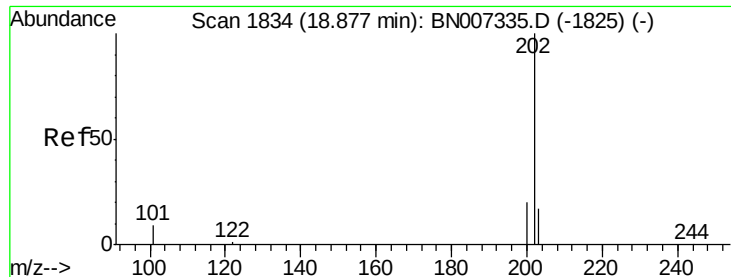


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

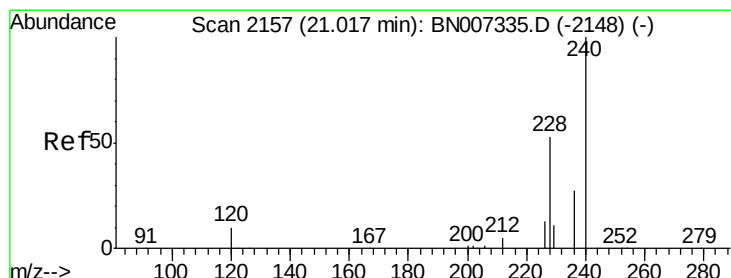
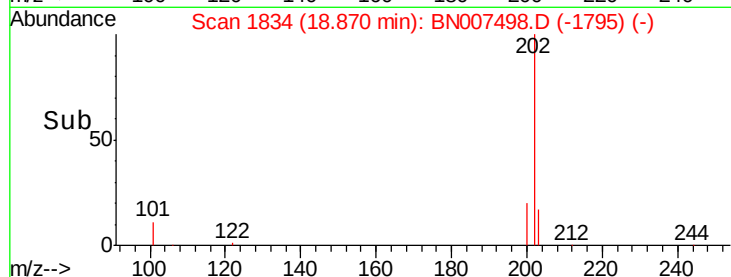
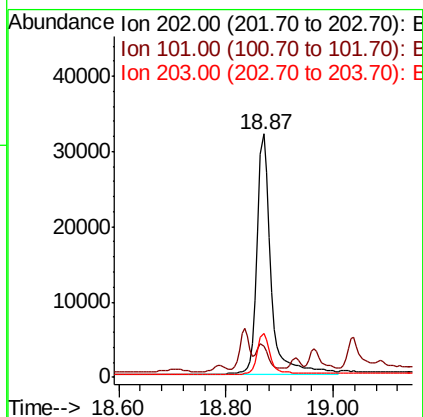
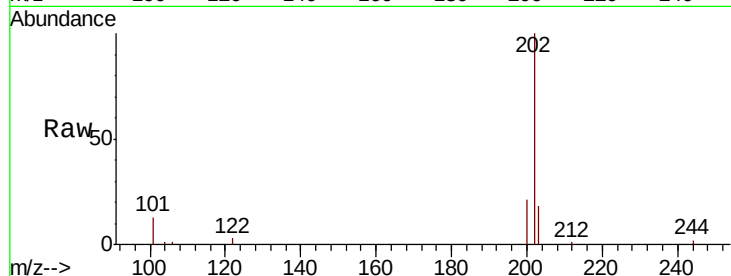




#26  
Fluoranthene  
Concen: 0.381 ng  
RT: 18.87 min Scan# 1834  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

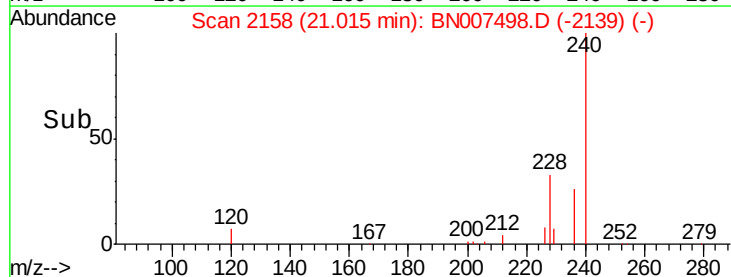
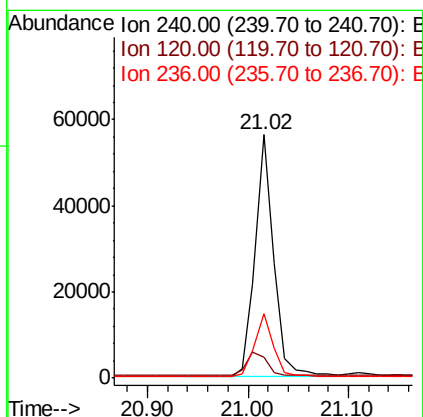
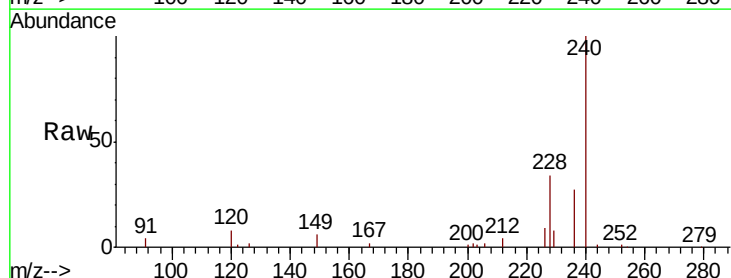
Instrument :  
BNA\_N  
ClientSampleId :  
TT-013-IDWSO-20190823

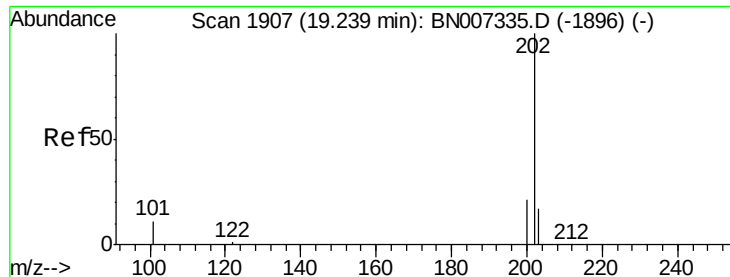
Tot Ion:202 Resp: 56663  
Ion Ratio Lower Upper  
202 100  
101 8.0 7.7 11.5  
203 16.4 13.7 20.5



#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.02 min Scan# 2158  
Delta R.T. -0.00 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Tgt Ion:240 Resp: 73526  
Ion Ratio Lower Upper  
240 100  
120 8.3 9.6 14.4#  
236 26.6 22.2 33.2

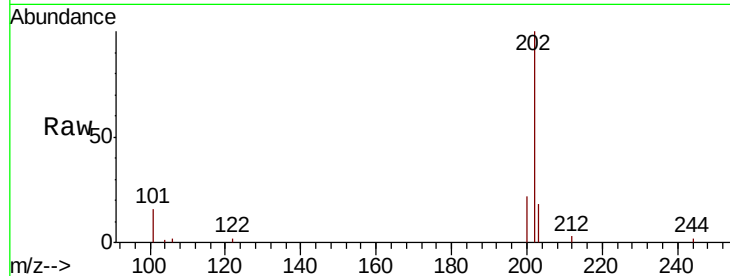




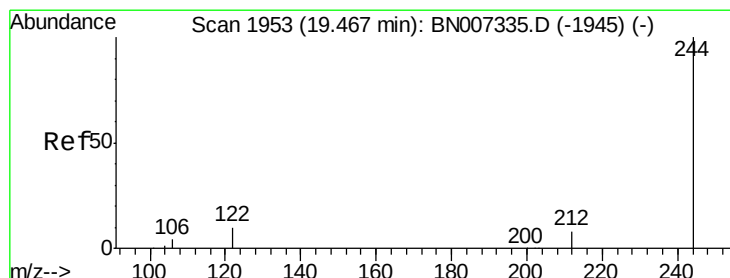
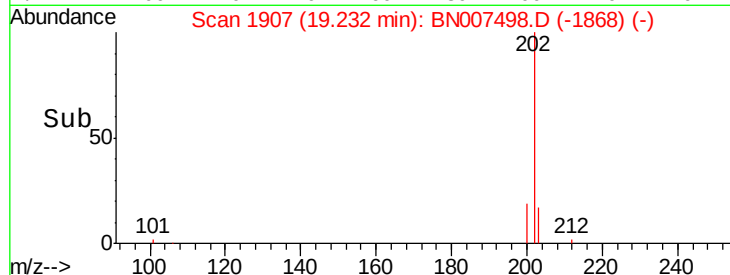
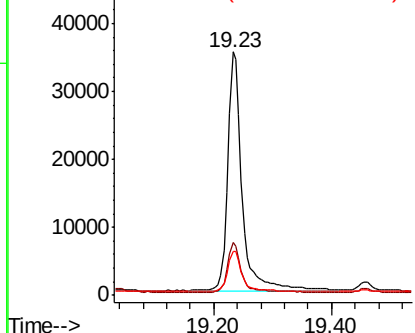
#28  
Pvrene  
Concen: 0.203 ng  
RT: 19.23 min Scan# 1907  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Instrument :  
BNA\_N  
ClientSampleId :  
TT-013-IDWSO-20190823

Tot Ion:202 Resp: 59897  
Ion Ratio Lower Upper  
202 100  
200 19.5 16.6 25.0  
203 17.1 14.2 21.4

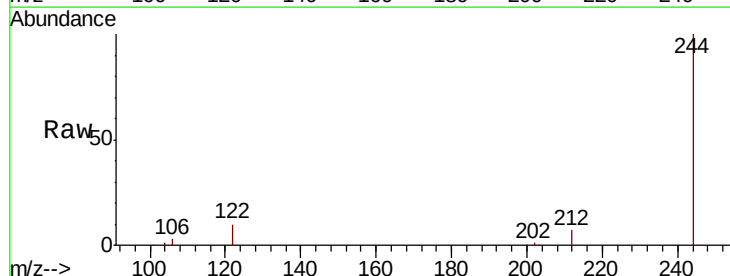


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

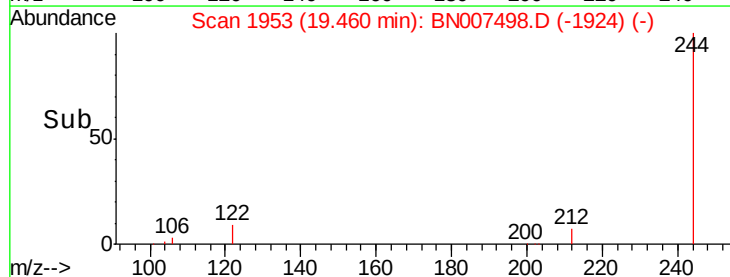
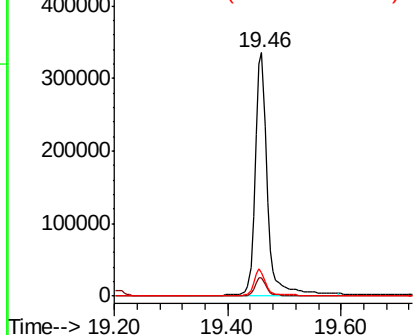


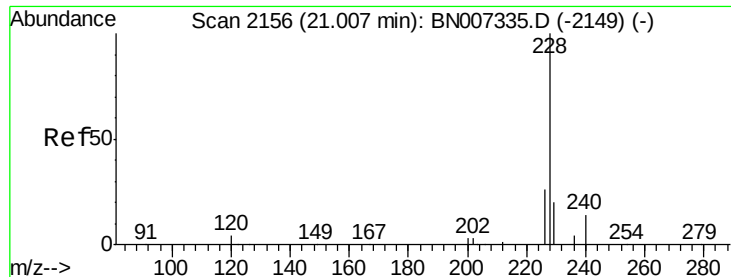
#29  
Terphenyl-d14  
Concen: 2.602 ng  
RT: 19.46 min Scan# 1953  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Tgt Ion:244 Resp: 500557  
Ion Ratio Lower Upper  
244 100  
212 7.5 7.0 10.6  
122 9.5 9.6 14.4#



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.349 ng

RT: 21.00 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

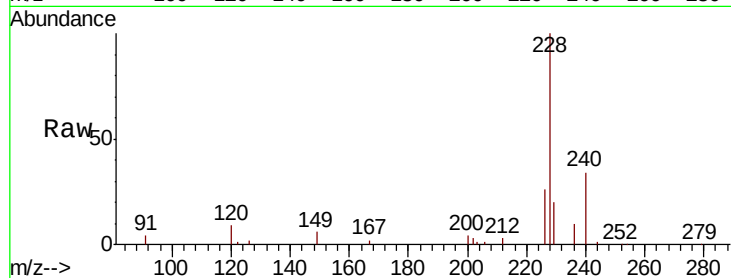
Tot Ion:228 Resp: 100798

Ion Ratio Lower Upper

228 100

226 26.4 21.3 31.9

229 20.3 16.1 24.1

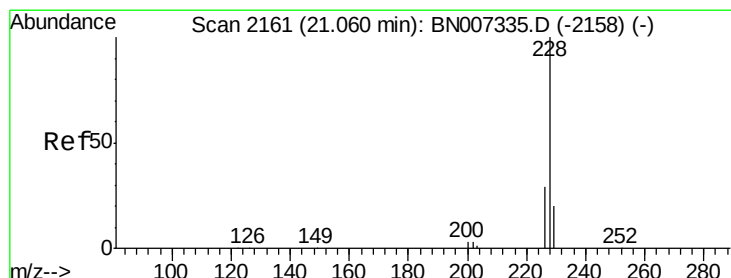
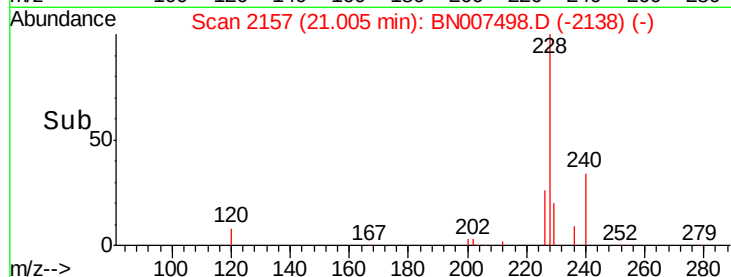
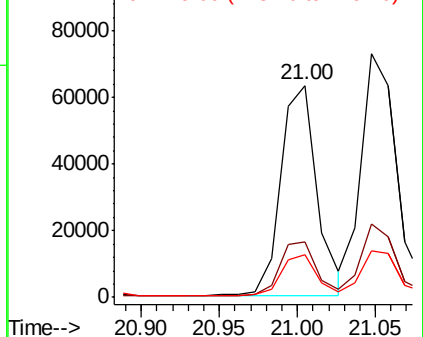


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.412 ng

RT: 21.05 min Scan# 2161

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

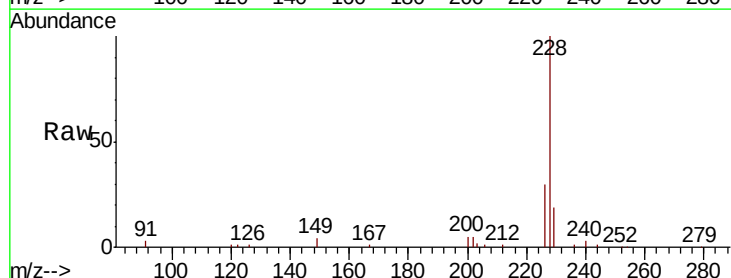
Tgt Ion:228 Resp: 114812

Ion Ratio Lower Upper

228 100

226 30.1 23.5 35.3

229 19.2 16.6 24.8

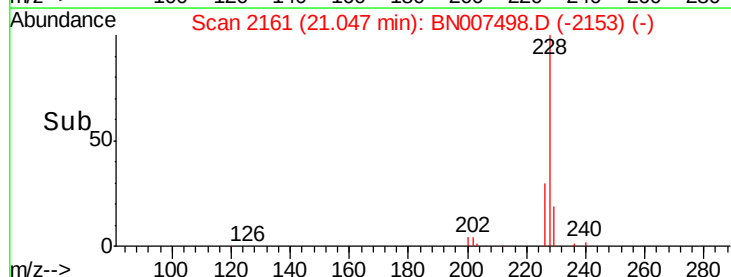
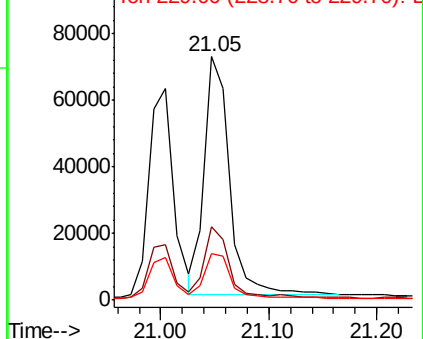


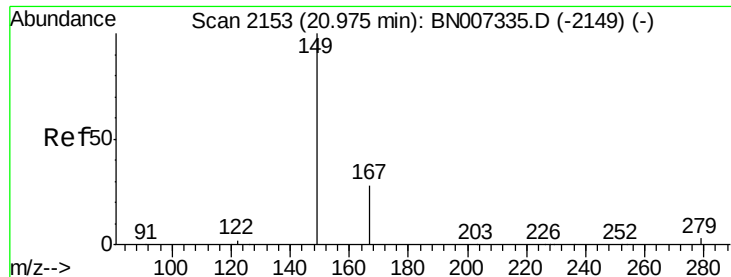
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.464 ng

RT: 20.96 min Scan# 2153

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

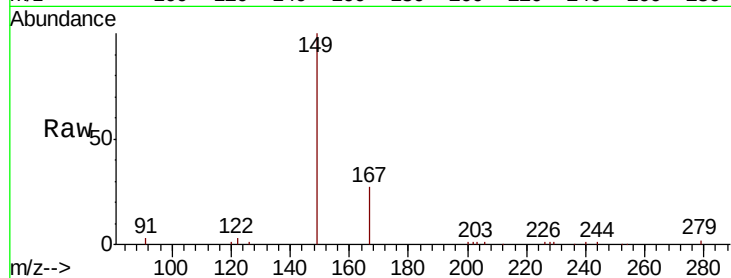
Tot Ion:149 Resp: 90173

Ion Ratio Lower Upper

149 100

167 27.7 22.8 34.2

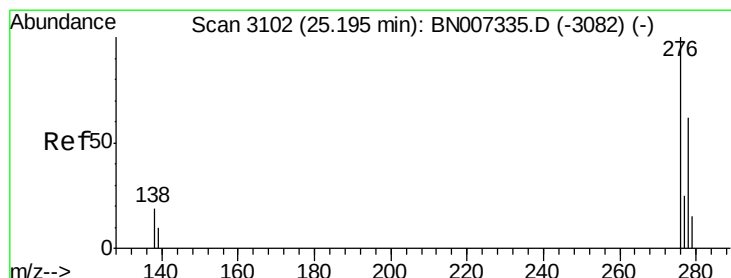
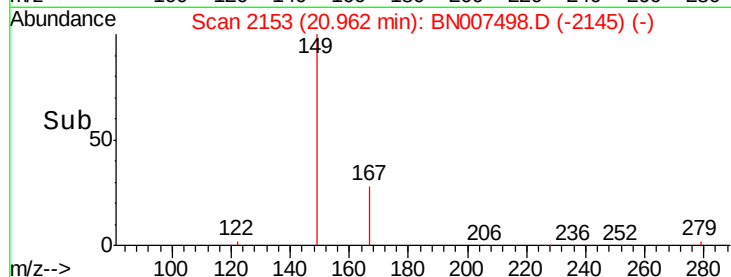
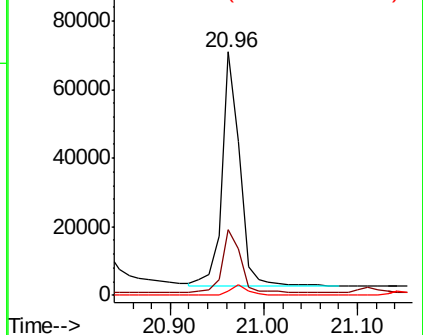
279 4.0 3.5 5.3



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.130 ng

RT: 25.19 min Scan# 3101

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

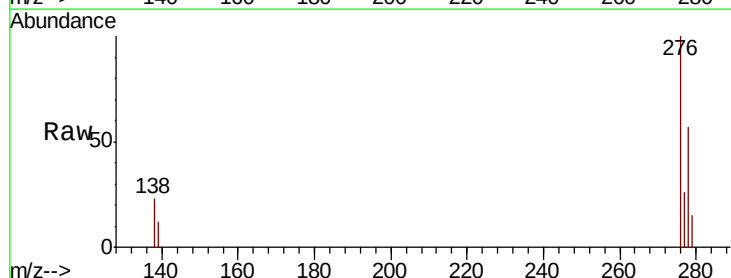
Tgt Ion:276 Resp: 43640

Ion Ratio Lower Upper

276 100

138 18.7 15.1 22.7

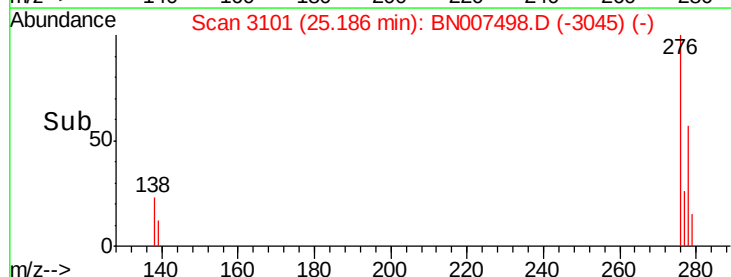
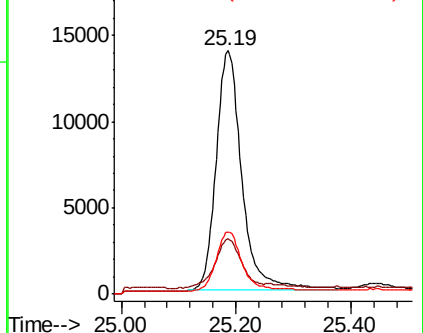
277 24.2 19.7 29.5

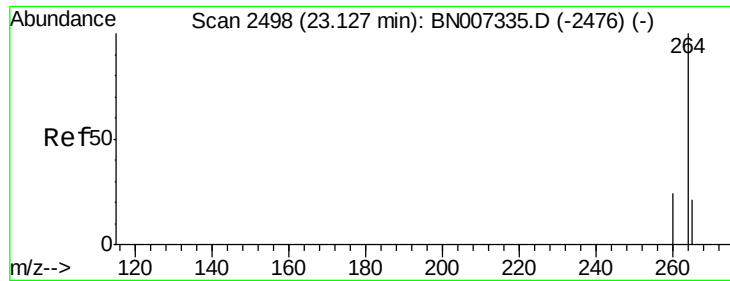


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

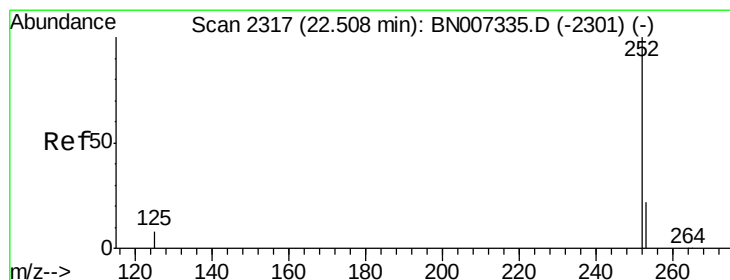
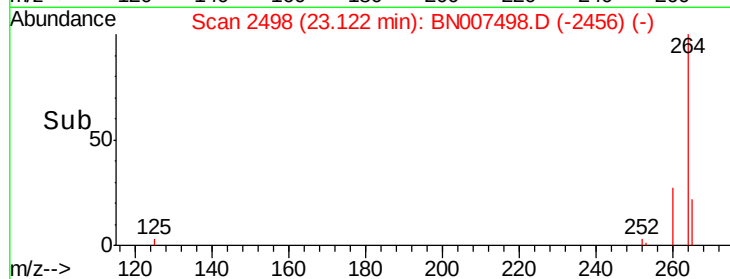
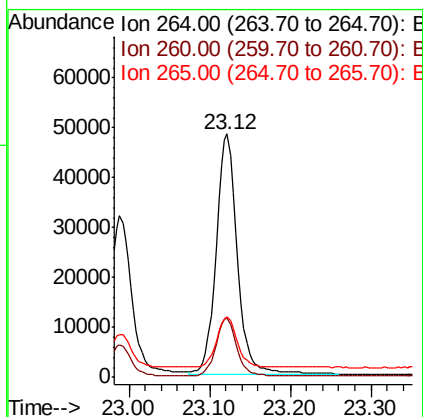
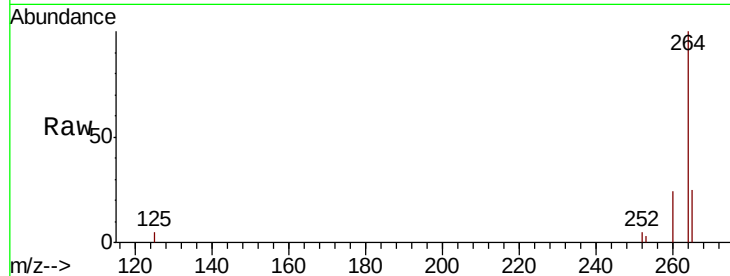




#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 23.12 min Scan# 2498  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

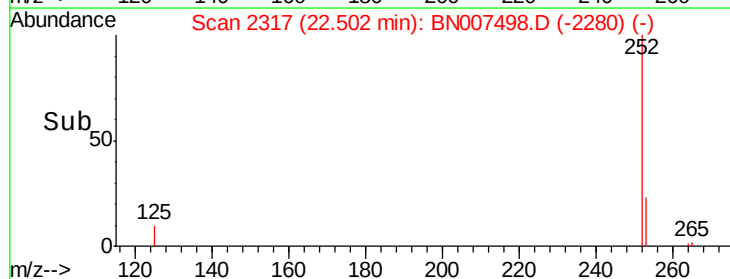
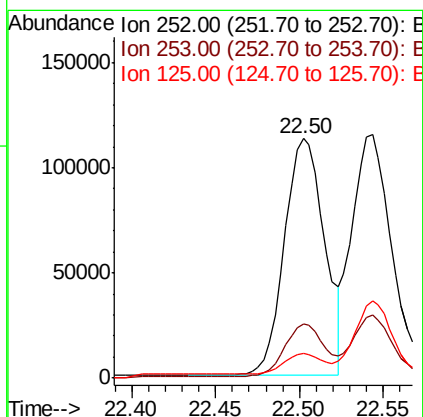
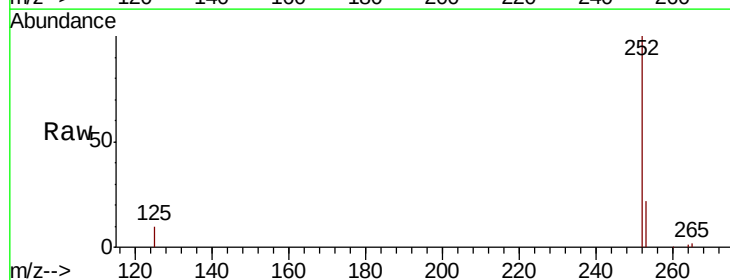
Instrument :  
BNA\_N  
ClientSampleId :  
TT-013-IDWSO-20190823

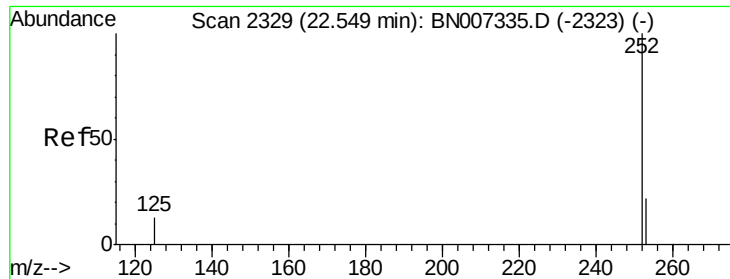
Tot Ion:264 Resp: 86975  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.7 29.5  
265 25.0 29.9 44.9#



#35  
Benzo(b)fluoranthene  
Concen: 0.598 ng  
RT: 22.50 min Scan# 2317  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Tgt Ion:252 Resp: 188534  
Ion Ratio Lower Upper  
252 100  
253 22.4 19.2 28.8  
125 10.1 10.6 16.0#





#36

Benzo(k)fluoranthene

Concen: 0.622 ng

RT: 22.54 min Scan# 2329

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

Instrument :

BNA\_N

ClientSampleId :

TT-013-IDWSO-20190823

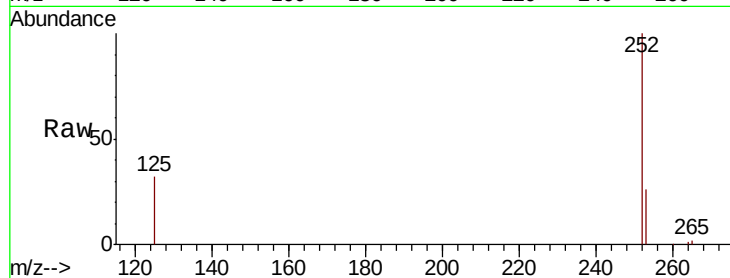
Tot Ion:252 Resp: 193753

Ion Ratio Lower Upper

252 100

253 25.8 19.4 29.2

125 31.5 13.1 19.7#

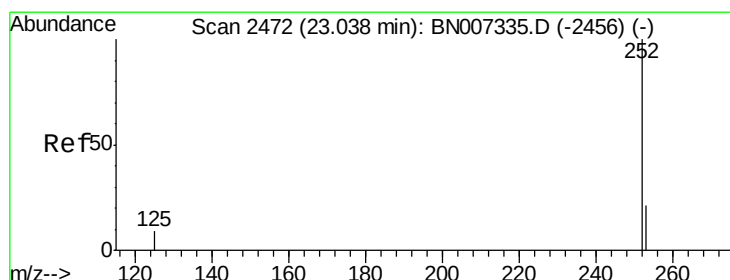
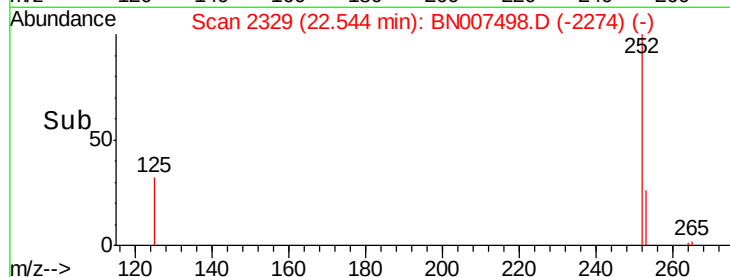
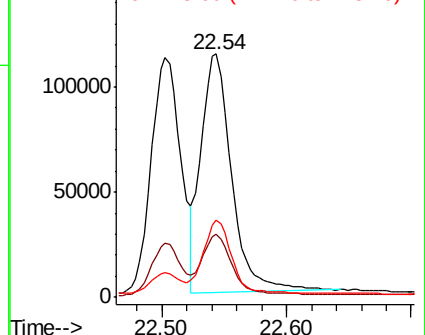


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(a)pyrene

Concen: 0.489 ng

RT: 23.03 min Scan# 2471

Delta R.T. -0.01 min

Lab File: BN007498.D

Acq: 29 Aug 2019 11:56

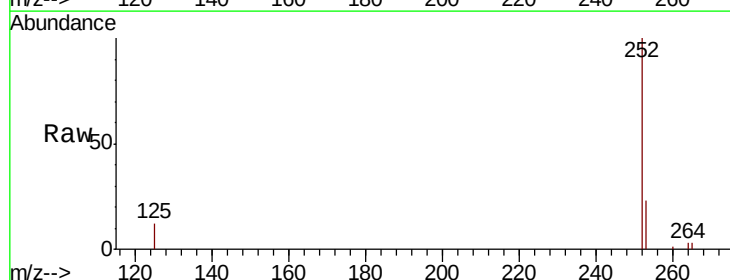
Tgt Ion:252 Resp: 146511

Ion Ratio Lower Upper

252 100

253 22.9 19.5 29.3

125 11.6 12.1 18.1#

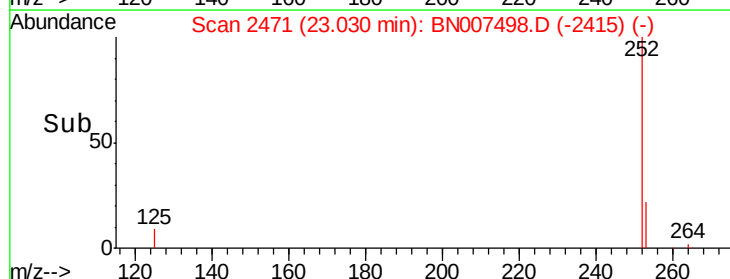
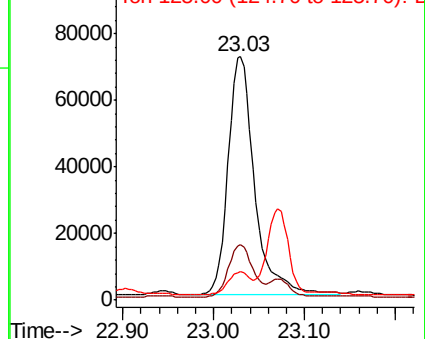


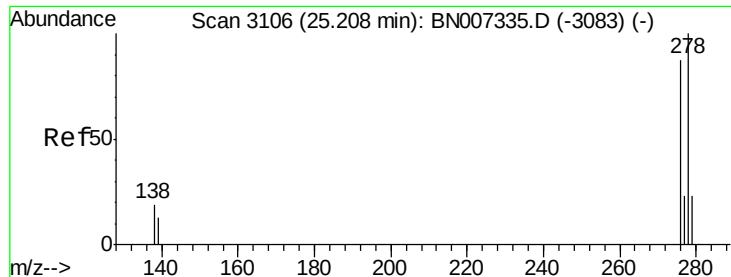
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

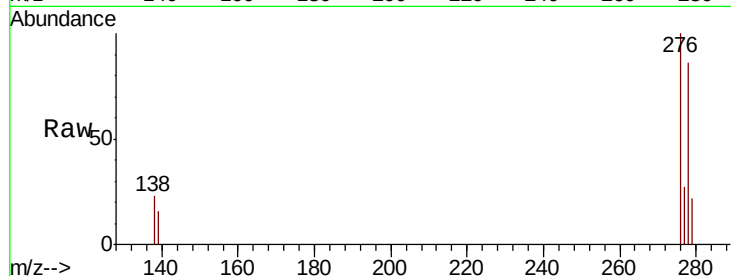




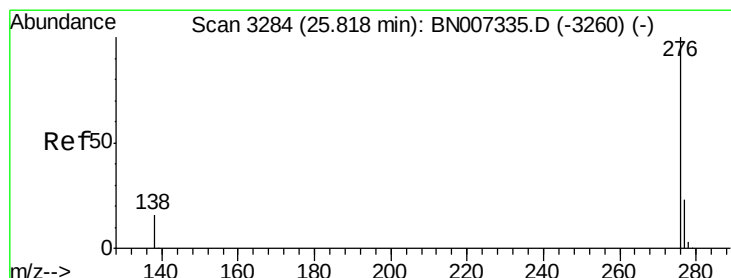
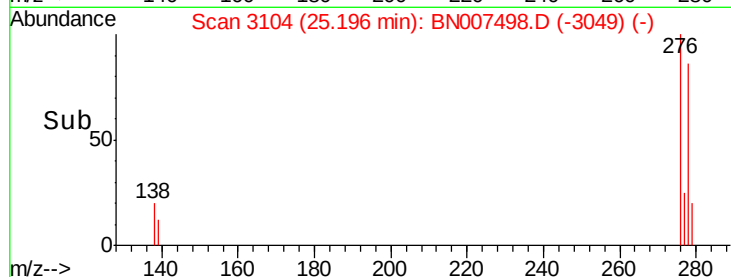
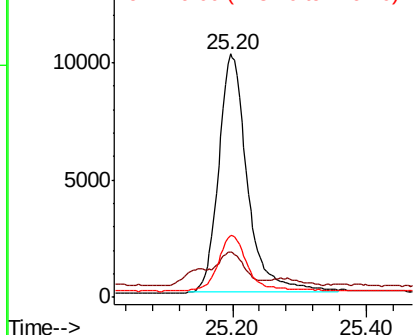
#38  
Dibenzo(a,h)anthracene  
Concen: 0.101 ng  
RT: 25.20 min Scan# 3104  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Instrument :  
BNA\_N  
ClientSampleId :  
TT-013-IDWSO-20190823

Tot Ion:278 Resp: 30356  
Ion Ratio Lower Upper  
278 100  
139 18.7 13.7 20.5  
279 25.4 20.2 30.4

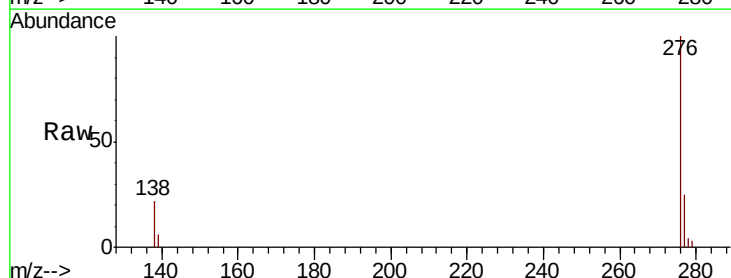


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#39  
Benzo(g,h,i)perylene  
Concen: 0.096 ng  
RT: 25.81 min Scan# 3282  
Delta R.T. -0.01 min  
Lab File: BN007498.D  
Acq: 29 Aug 2019 11:56

Tgt Ion:276 Resp: 28511  
Ion Ratio Lower Upper  
276 100  
277 25.3 19.6 29.4  
138 22.2 16.3 24.5



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

