

Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN062819\  
 Data File : BN006636.D  
 Acq On : 29 Jun 2019 04:30  
 Operator : HP/JU  
 Sample : K3486-04  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 W-4

Quant Time: Jul 06 03:48:20 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 29 01:19:02 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 4784     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.40 | 136  | 21692    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.27 | 164  | 14396    | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.03 | 188  | 33566    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.25 | 240  | 30705    | 0.40 | ng    | -0.02    |
| 34) Perylene-d12          | 23.48 | 264  | 28603    | 0.40 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.25  | 112  | 1239     | 0.11 | ng    | 0.00     |
| 5) Phenol-d6                | 6.82  | 99   | 1187     | 0.08 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.79  | 82   | 4941     | 0.34 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.00 | 152  | 12607    | 0.37 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.78 | 330  | 2302     | 0.34 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 12.88 | 172  | 18623    | 0.35 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.07 | 212  | 35341    | 0.36 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.67 | 244  | 25565    | 0.40 | ng    | 0.00     |

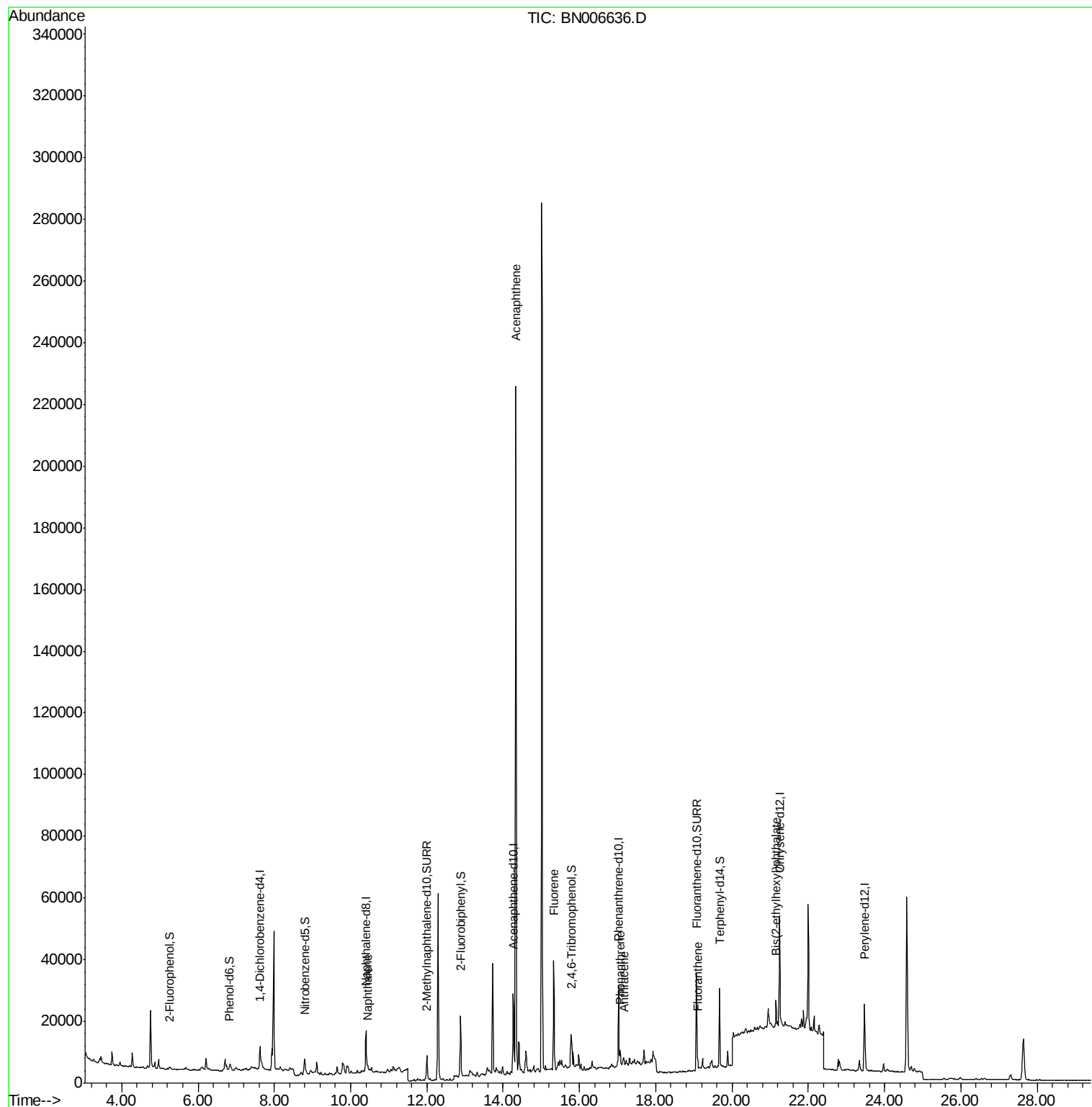
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Naphthalene                 | 10.45 | 128  | 2007     | 0.035 | ng    | # 72   |
| 17) Acenaphthene               | 14.33 | 154  | 112709   | 2.492 | ng    | 98     |
| 18) Fluorene                   | 15.32 | 166  | 22269    | 0.390 | ng    | # 94   |
| 23) Phenanthrene               | 17.07 | 178  | 5031     | 0.053 | ng    | 95     |
| 24) Anthracene                 | 17.16 | 178  | 3069     | 0.037 | ng    | # 70   |
| 26) Fluoranthene               | 19.10 | 202  | 3244     | 0.028 | ng    | # 71   |
| 32) Bis(2-ethylhexyl)phthalate | 21.15 | 149  | 7490     | 0.148 | ng    | 98     |

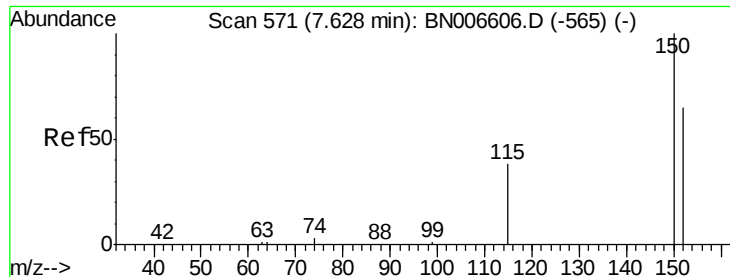
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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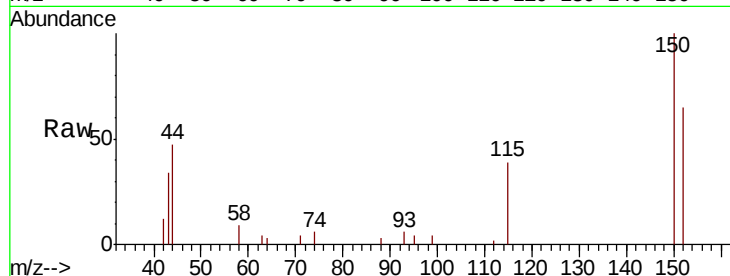


#1

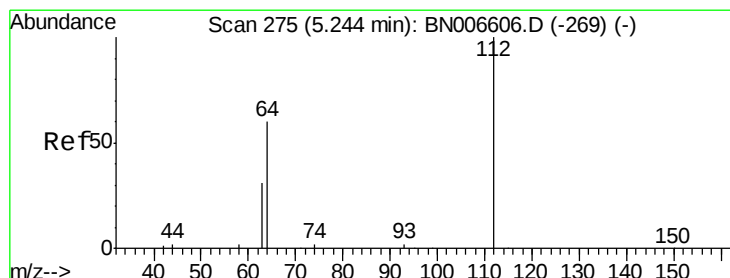
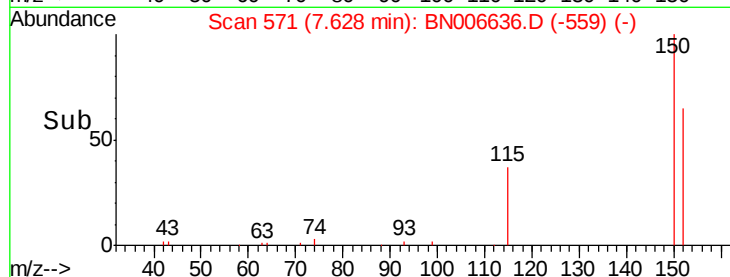
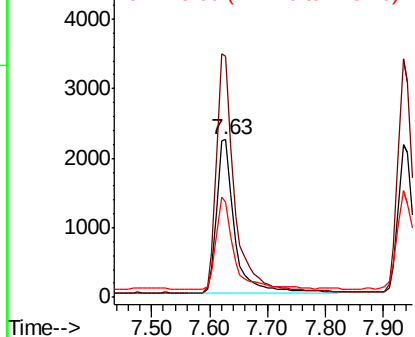
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.63 min Scan# 571  
Delta R.T. 0.00 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

Instrument :  
BNA\_N  
ClientSampleId :  
W-4

Tot Ion:152 Resp: 4784  
Ion Ratio Lower Upper  
152 100  
150 152.7 122.2 183.2  
115 60.1 50.0 75.0



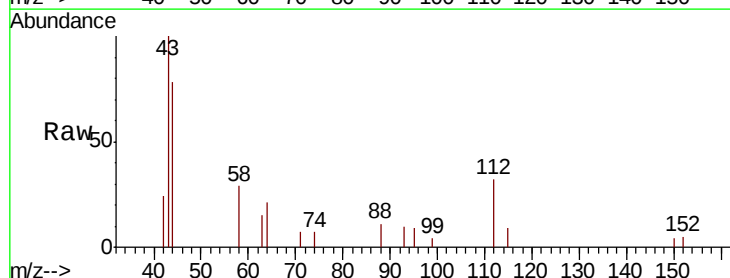
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



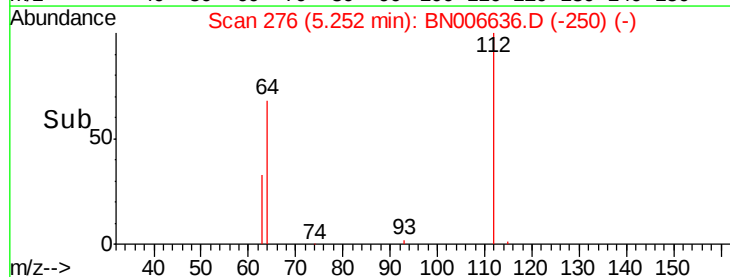
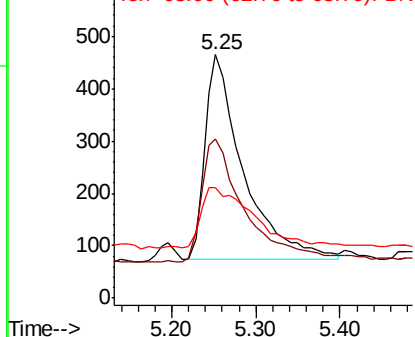
#4

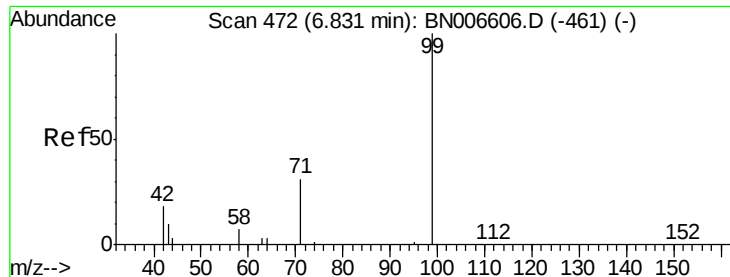
2-Fluorophenol  
Concen: 0.106 ng  
RT: 5.25 min Scan# 276  
Delta R.T. 0.01 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

Tgt Ion:112 Resp: 1239  
Ion Ratio Lower Upper  
112 100  
64 68.0 48.9 73.3  
63 41.3 24.3 36.5#



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: 0.076 ng

RT: 6.82 min Scan# 471

Delta R.T. -0.01 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Instrument :

BNA\_N

ClientSampleId :

W-4

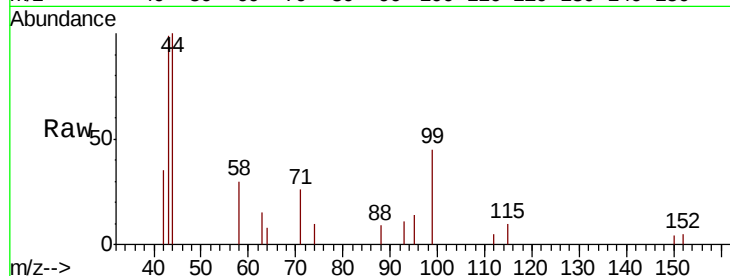
Tot Ion: 99 Resp: 1187

Ion Ratio Lower Upper

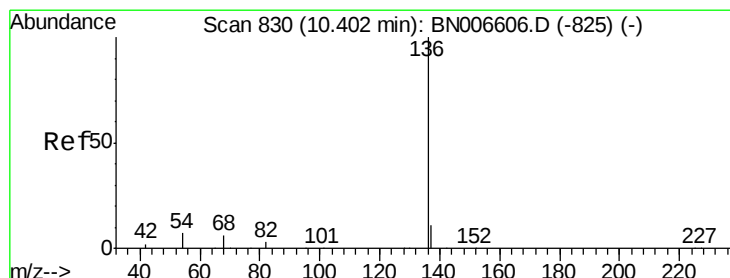
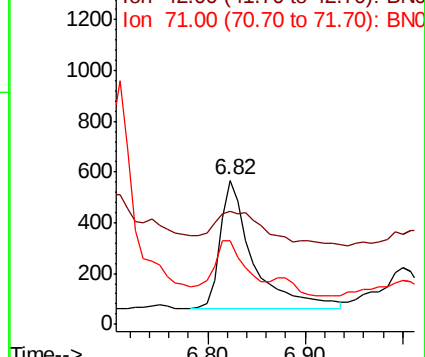
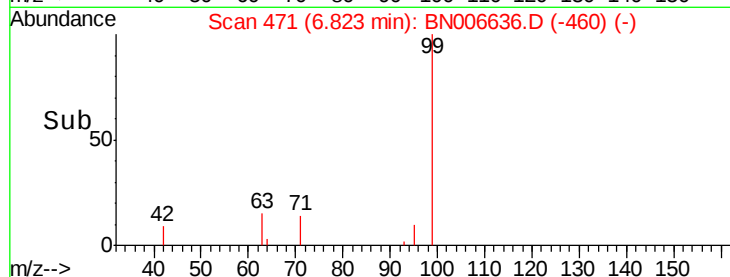
99 100

42 43.2 16.4 24.6#

71 30.5 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN006636.D (-460) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.40 min Scan# 830

Delta R.T. 0.00 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Tgt Ion: 136 Resp: 21692

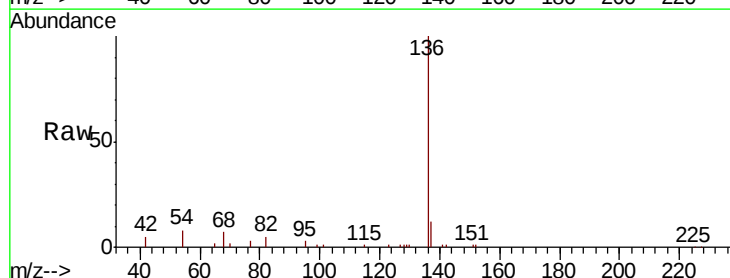
Ion Ratio Lower Upper

136 100

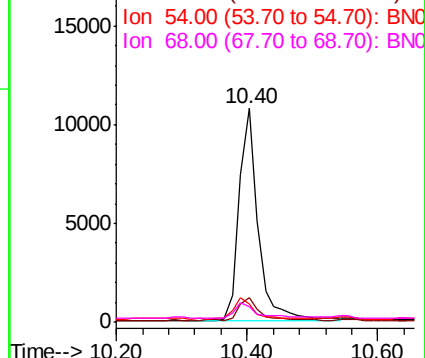
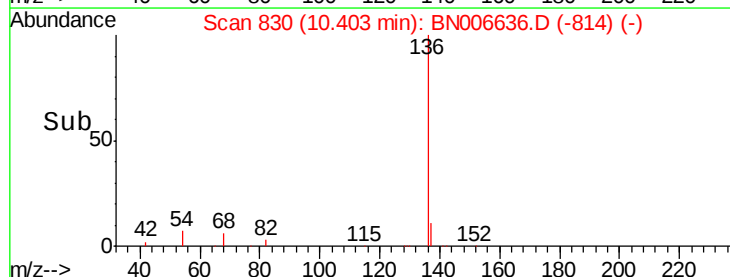
137 11.5 9.3 13.9

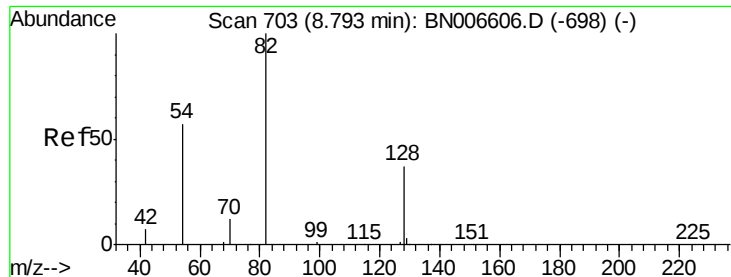
54 8.3 6.7 10.1

68 7.4 5.3 7.9



Abundance Ion 136.00 (135.70 to 136.70): BN006636.D (-814) (-)





#8

Nitrobenzene-d5

Concen: 0.339 ng

RT: 8.79 min Scan# 703

Delta R.T. 0.00 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Instrument :

BNA\_N

ClientSampled :

W-4

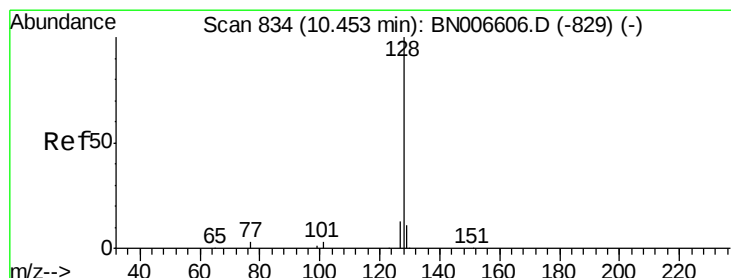
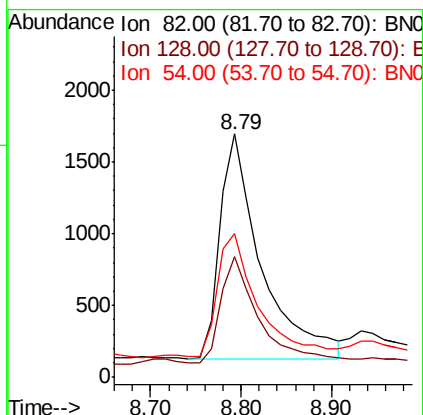
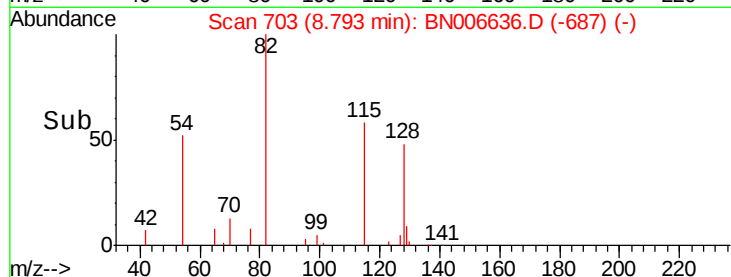
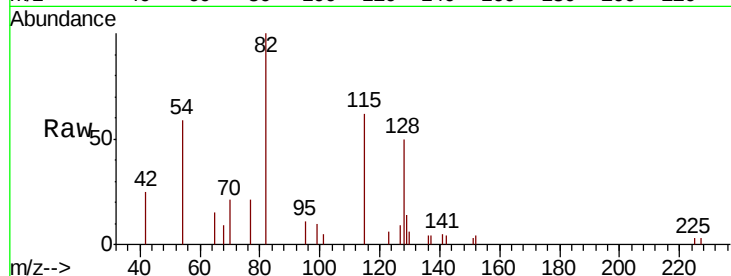
Tot Ion: 82 Resp: 4941

Ion Ratio Lower Upper

82 100

128 49.8 32.6 49.0#

54 58.9 48.2 72.4



#9

Naphthalene

Concen: 0.035 ng

RT: 10.45 min Scan# 834

Delta R.T. 0.00 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

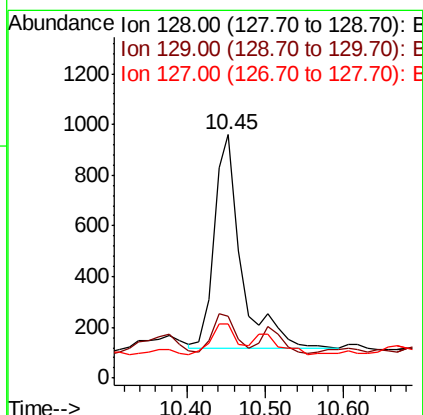
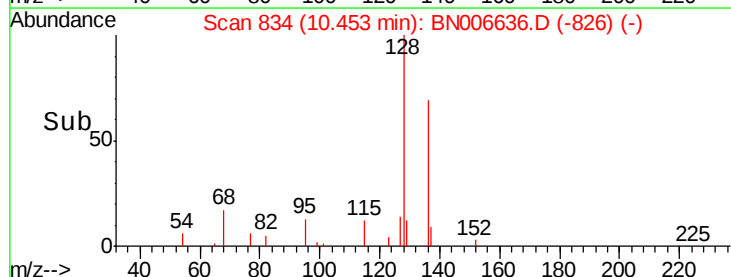
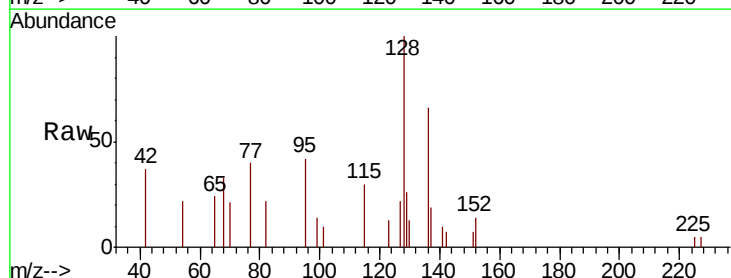
Tgt Ion: 128 Resp: 2007

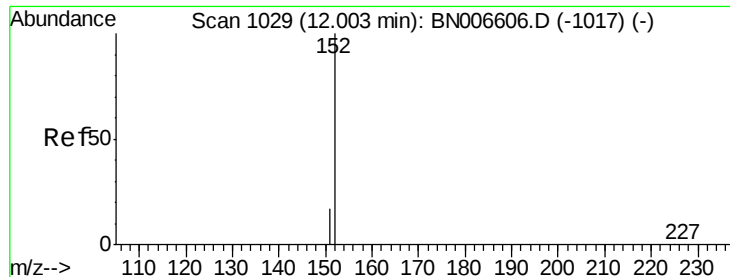
Ion Ratio Lower Upper

128 100

129 25.5 9.3 13.9#

127 22.3 10.8 16.2#

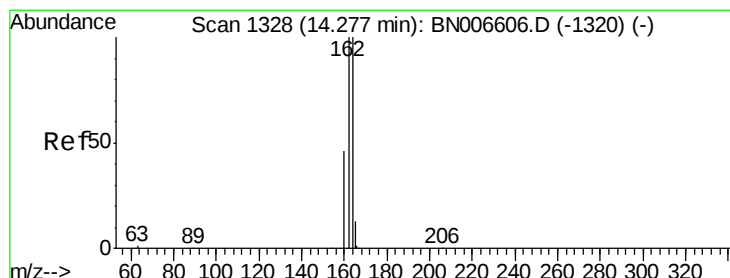
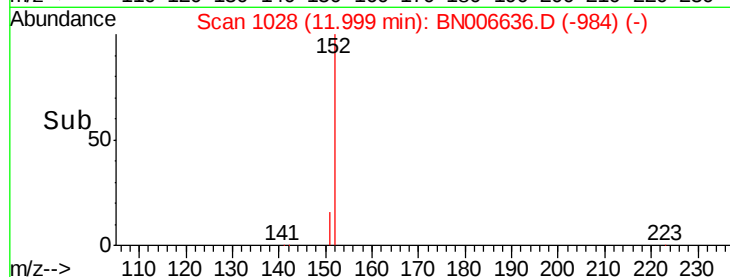
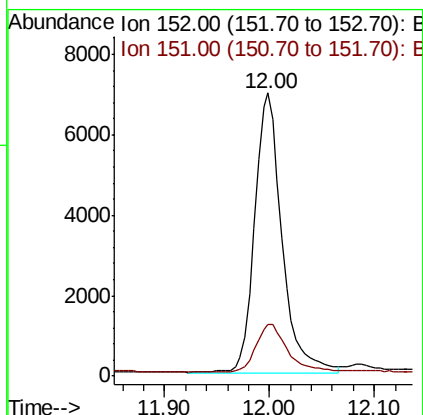
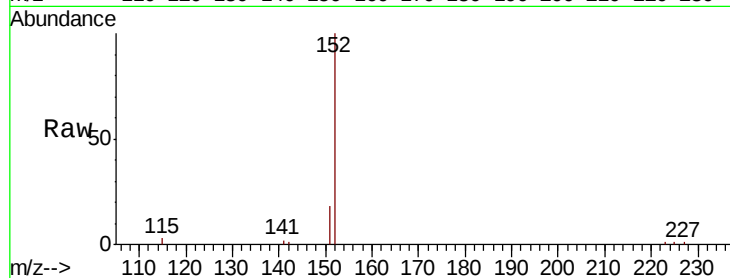




#11  
2-Methylnaphthalene-d10  
Concen: 0.369 ng  
RT: 12.00 min Scan# 1028  
Delta R.T. -0.00 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

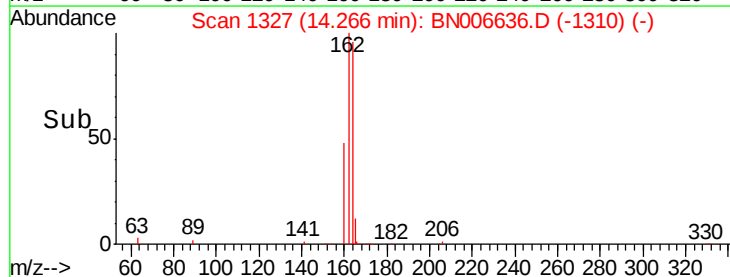
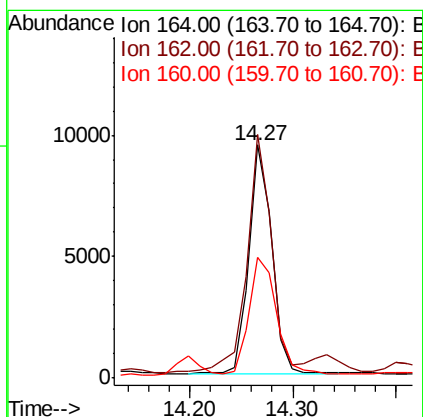
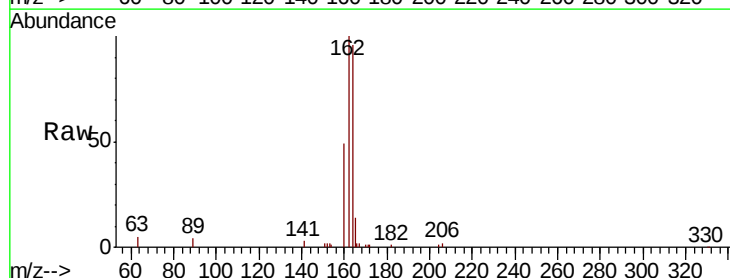
Instrument :  
BNA\_N  
ClientSampleId :  
W-4

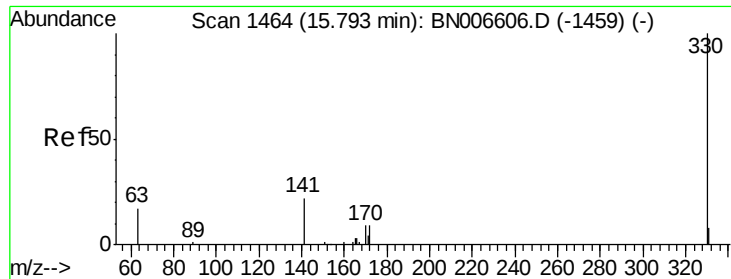
Tot Ion:152 Resp: 12607  
Ion Ratio Lower Upper  
152 100  
151 20.3 15.0 22.4



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.27 min Scan# 1327  
Delta R.T. -0.01 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

Tgt Ion:164 Resp: 14396  
Ion Ratio Lower Upper  
164 100  
162 104.4 80.0 120.0  
160 51.5 37.0 55.4

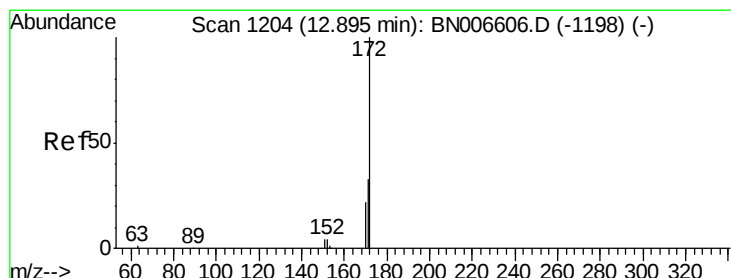
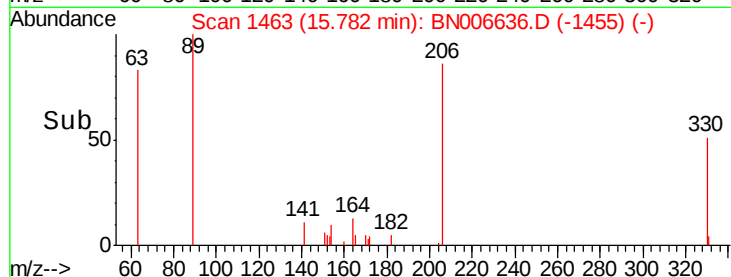
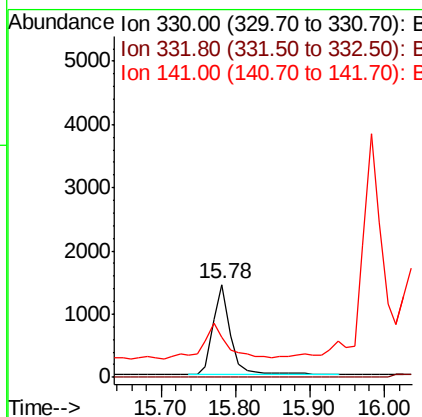
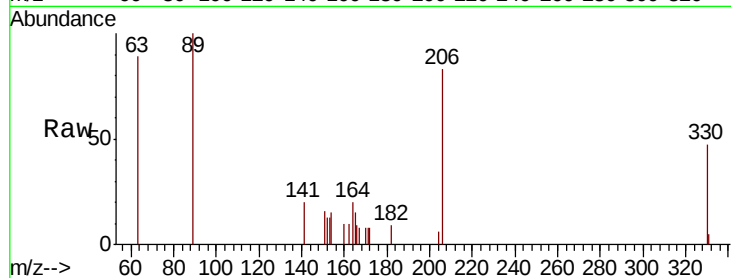




#14  
 2,4,6-Tribromophenol  
 Concen: 0.340 ng  
 RT: 15.78 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BN006636.D  
 Acq: 29 Jun 2019 04:30

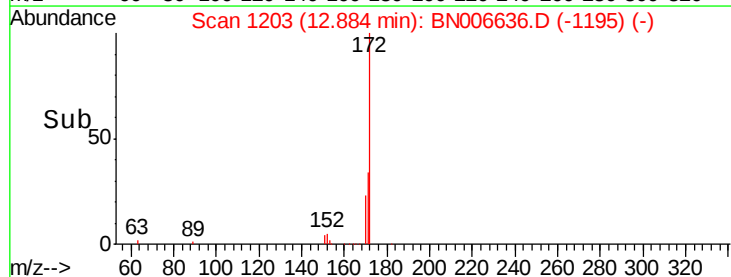
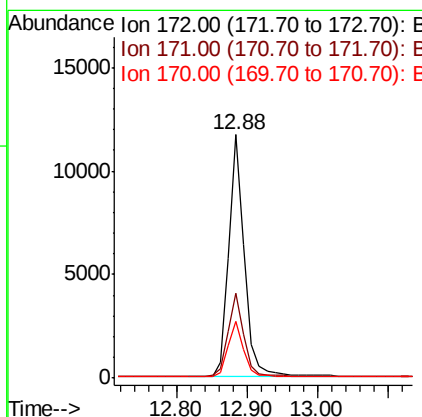
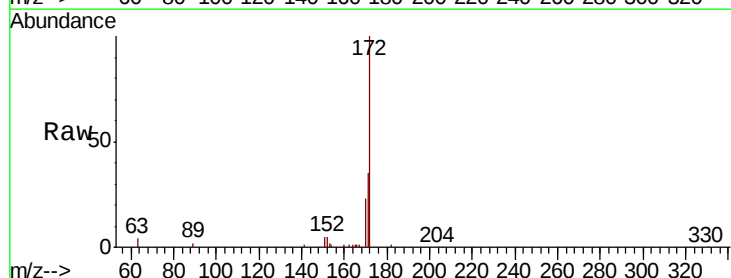
Instrument :  
 BNA\_N  
 ClientSampled :  
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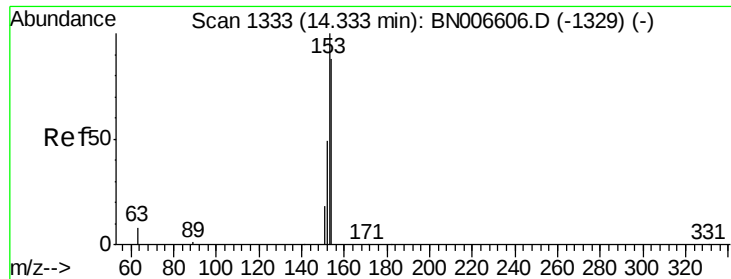
Tot Ion:330 Resp: 2302  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 52.6 26.5 39.7#



#15  
 2-Fluorobiphenyl  
 Concen: 0.349 ng  
 RT: 12.88 min Scan# 1203  
 Delta R.T. -0.01 min  
 Lab File: BN006636.D  
 Acq: 29 Jun 2019 04:30

Tgt Ion:172 Resp: 18623  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 27.0 40.4  
 170 23.3 17.7 26.5

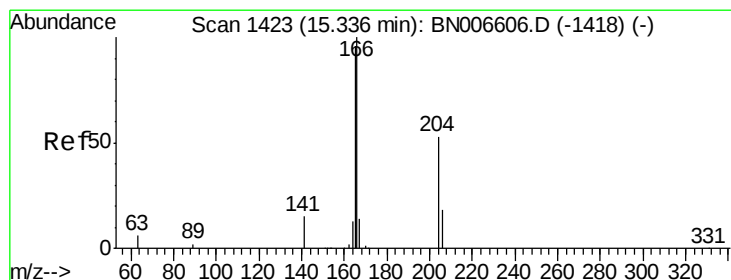
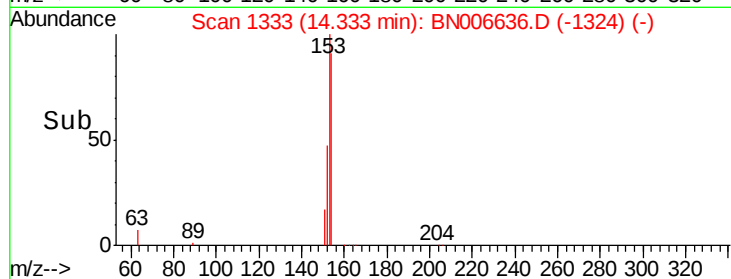
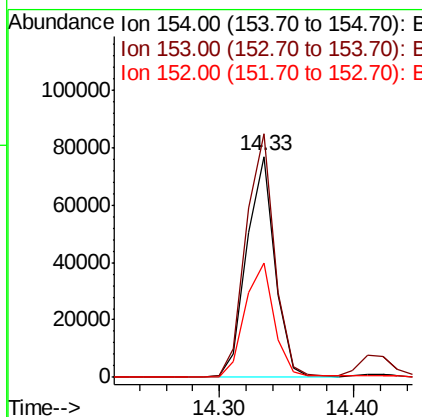
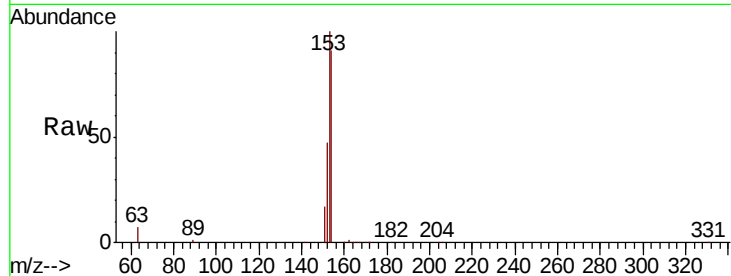




#17  
Acenaphthene  
Concen: 2.492 ng  
RT: 14.33 min Scan# 1333  
Delta R.T. 0.00 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

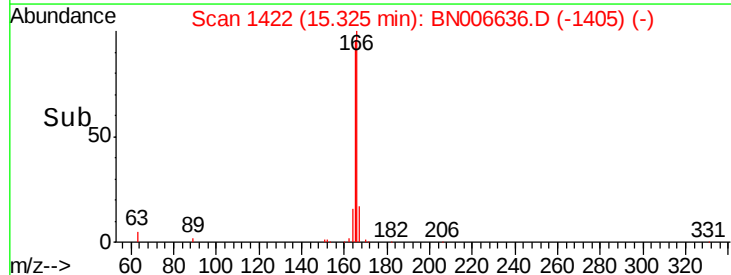
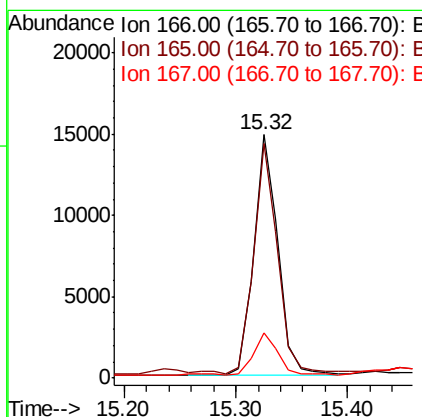
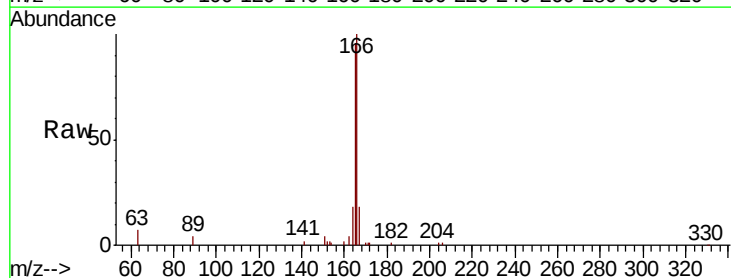
Instrument :  
BNA\_N  
ClientSampled :  
W-4

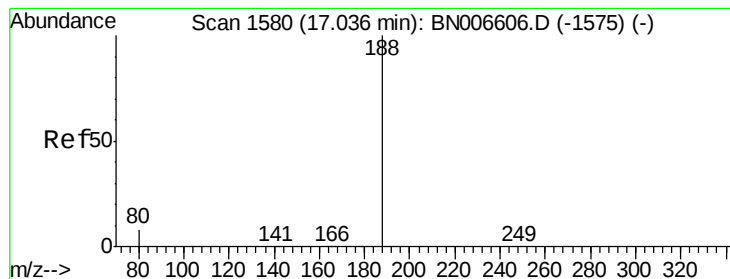
Tot Ion:154 Resp: 112709  
Ion Ratio Lower Upper  
154 100  
153 111.6 90.2 135.4  
152 53.4 44.2 66.4



#18  
Fluorene  
Concen: 0.390 ng  
RT: 15.32 min Scan# 1422  
Delta R.T. -0.01 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

Tgt Ion:166 Resp: 22269  
Ion Ratio Lower Upper  
166 100  
165 92.5 78.4 117.6  
167 17.1 10.8 16.2#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.03 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Instrument :

BNA\_N

ClientSampleId :

W-4

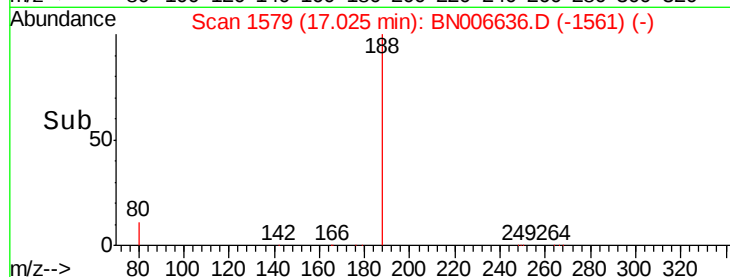
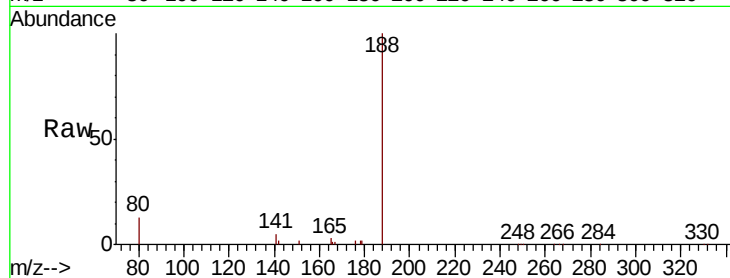
Tot Ion:188 Resp: 33566

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

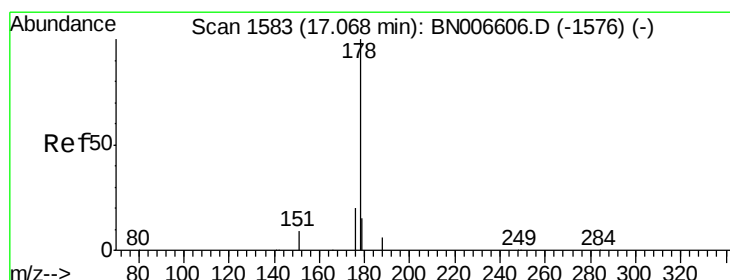
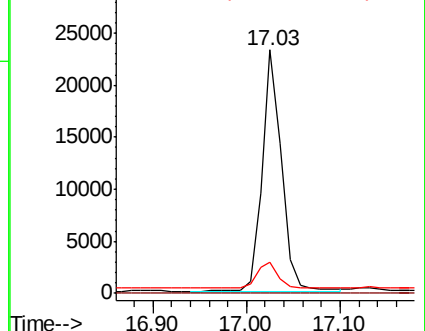
80 12.7 7.1 10.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#23

Phenanthrene

Concen: 0.053 ng

RT: 17.07 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

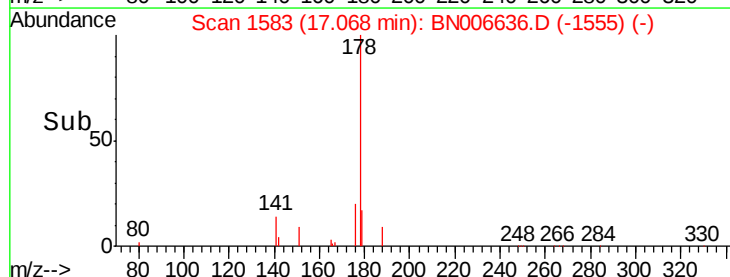
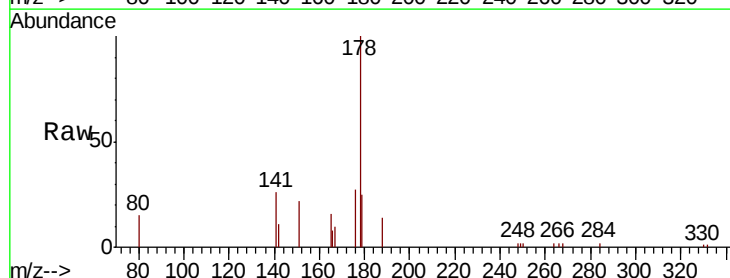
Tgt Ion:178 Resp: 5031

Ion Ratio Lower Upper

178 100

176 22.4 15.3 22.9

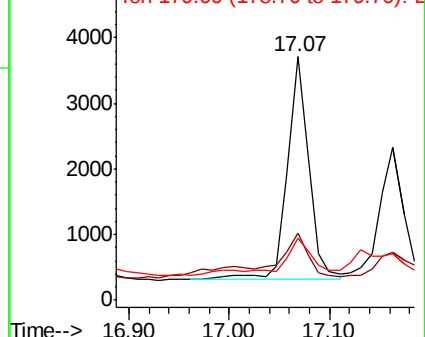
179 16.0 12.2 18.4

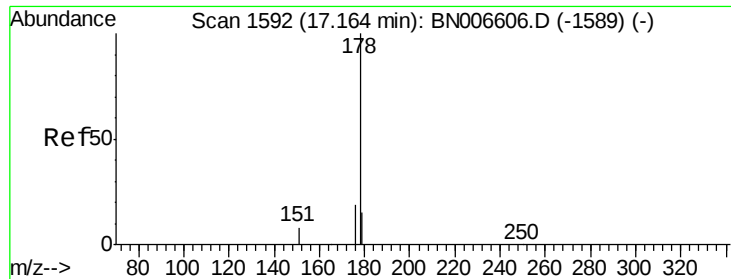


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.037 ng

RT: 17.16 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Instrument :

BNA\_N

ClientSampled :

W-4

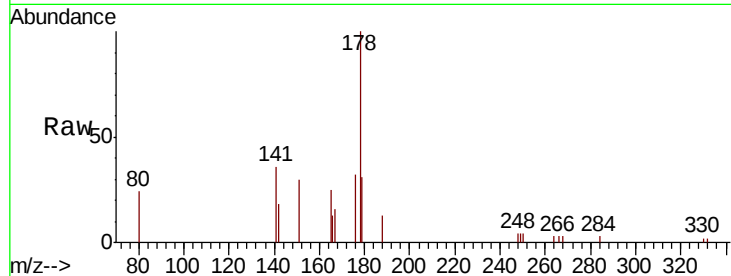
Tot Ion:178 Resp: 3069

Ion Ratio Lower Upper

178 100

176 30.1 15.0 22.4#

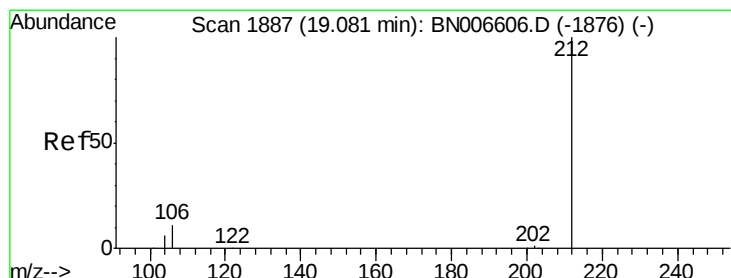
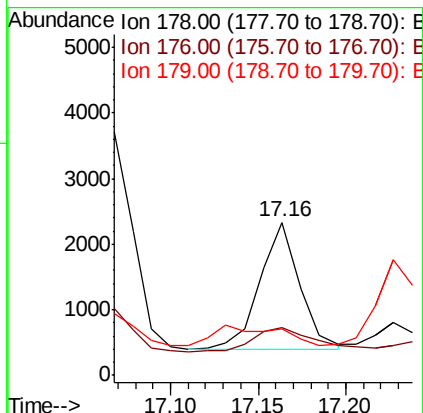
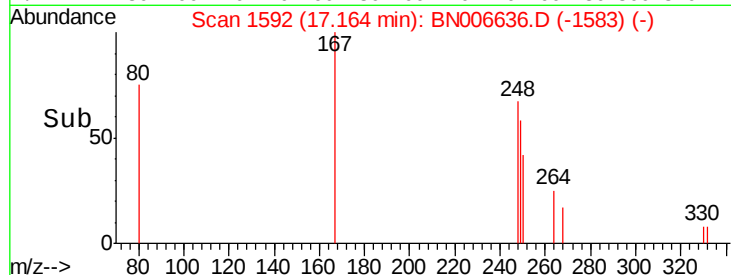
179 0.0 12.2 18.2#



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: 0.358 ng

RT: 19.07 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

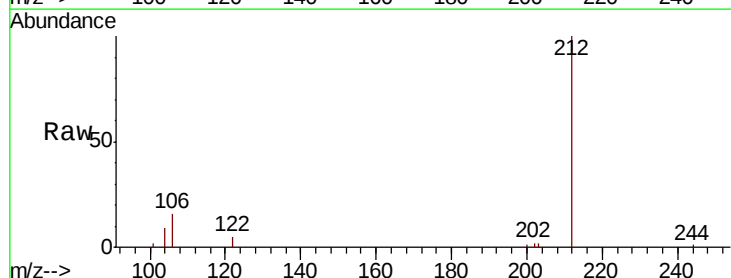
Tgt Ion:212 Resp: 35341

Ion Ratio Lower Upper

212 100

106 14.8 10.6 15.8

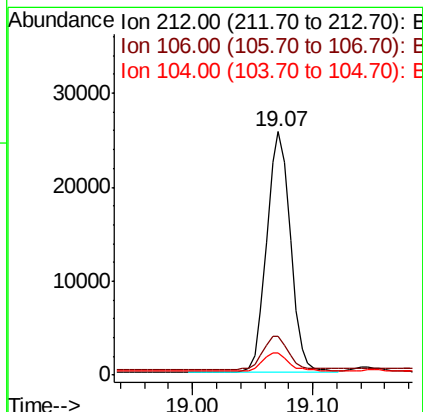
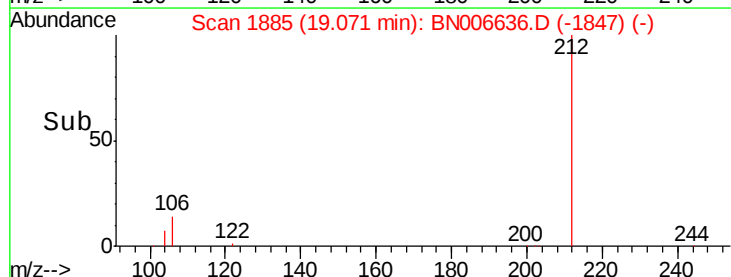
104 8.4 5.8 8.6

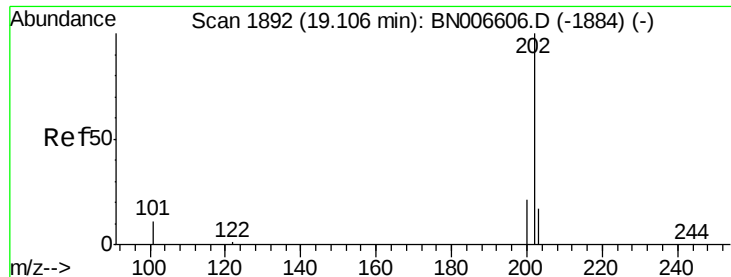


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

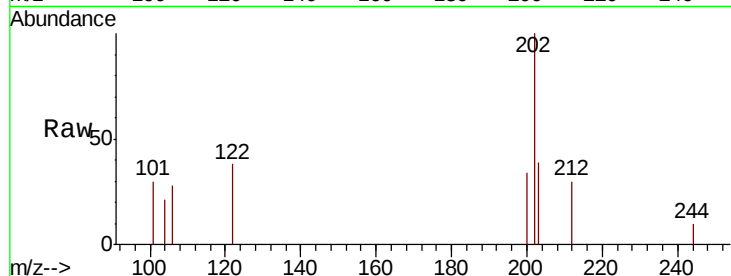




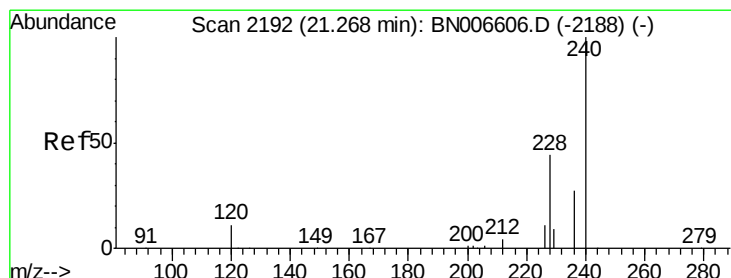
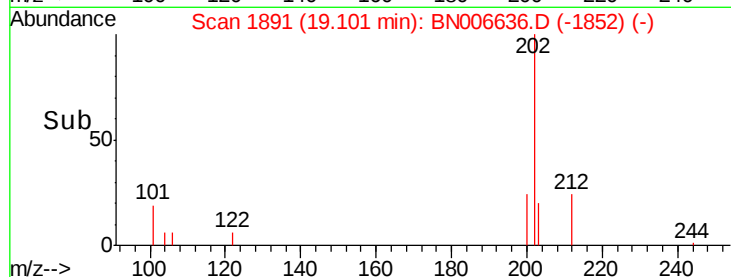
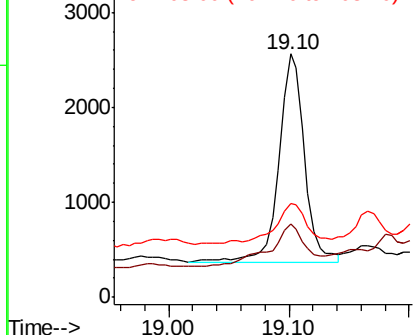
#26  
Fluoranthene  
Concen: 0.028 ng  
RT: 19.10 min Scan# 1891  
Delta R.T. -0.00 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

Instrument :  
BNA\_N  
ClientSampleId :  
W-4

Tot Ion:202 Resp: 3244  
Ion Ratio Lower Upper  
202 100  
101 30.2 8.9 13.3#  
203 23.8 13.6 20.4#

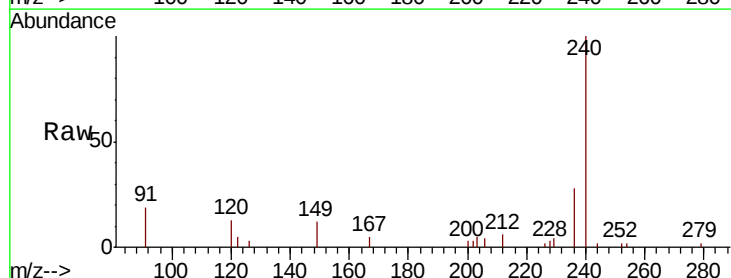


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

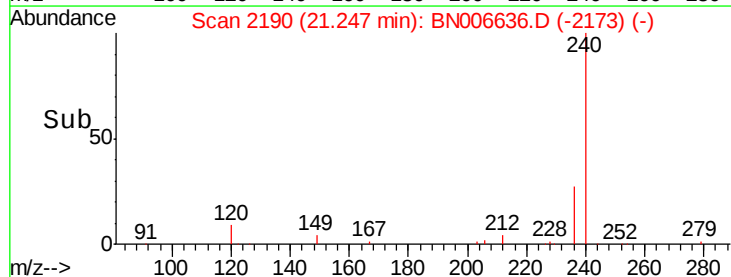
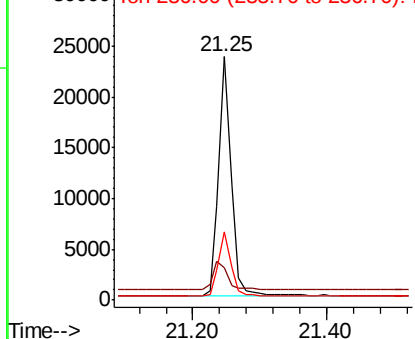


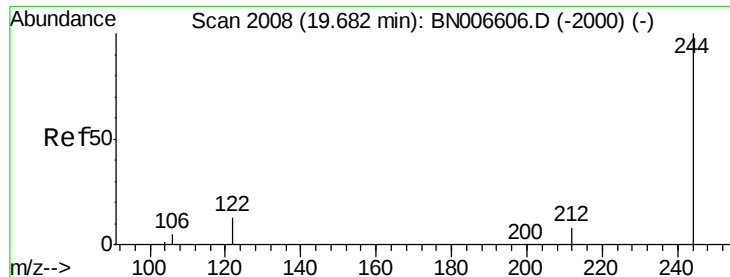
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.25 min Scan# 2190  
Delta R.T. -0.02 min  
Lab File: BN006636.D  
Acq: 29 Jun 2019 04:30

Tgt Ion:240 Resp: 30705  
Ion Ratio Lower Upper  
240 100  
120 13.4 9.9 14.9  
236 28.2 22.2 33.4



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.398 ng

RT: 19.67 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Instrument :

BNA\_N

ClientSampleId :

W-4

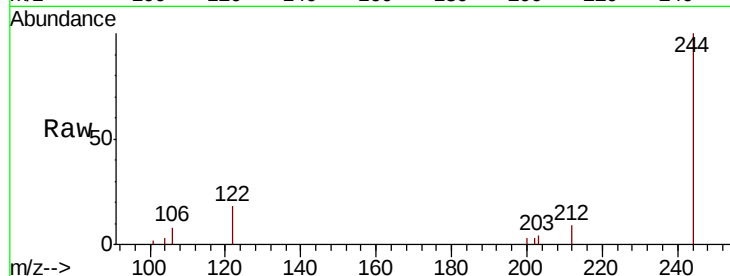
Tot Ion:244 Resp: 25565

Ion Ratio Lower Upper

244 100

212 9.3 6.7 10.1

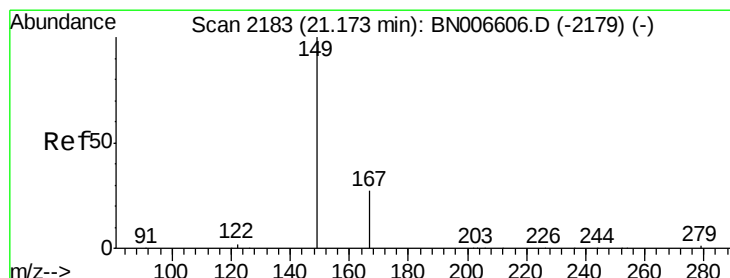
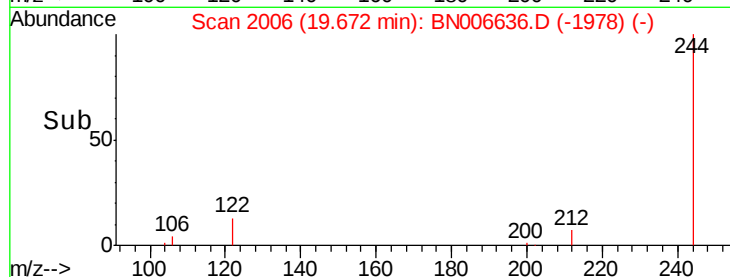
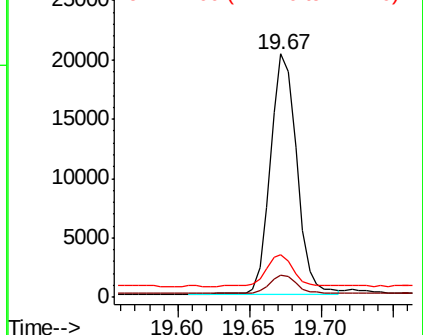
122 17.7 11.0 16.6#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.148 ng

RT: 21.15 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

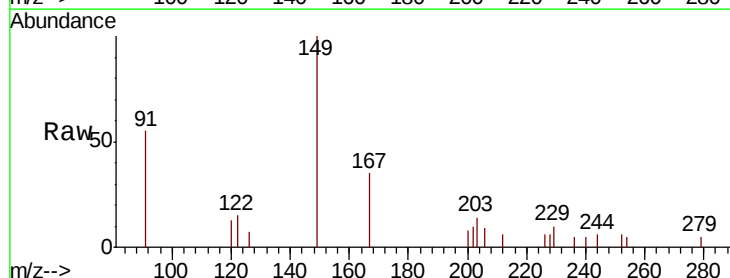
Tgt Ion:149 Resp: 7490

Ion Ratio Lower Upper

149 100

167 30.0 22.9 34.3

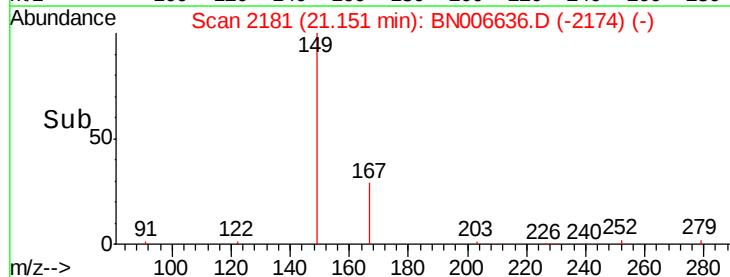
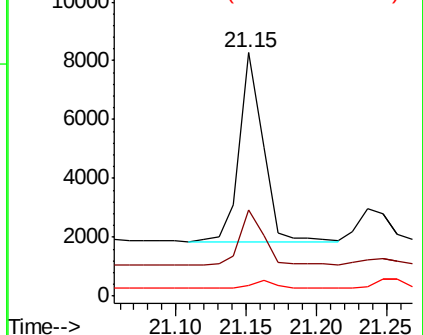
279 4.4 3.3 4.9

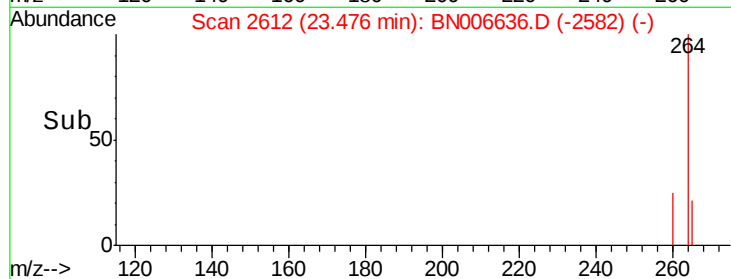
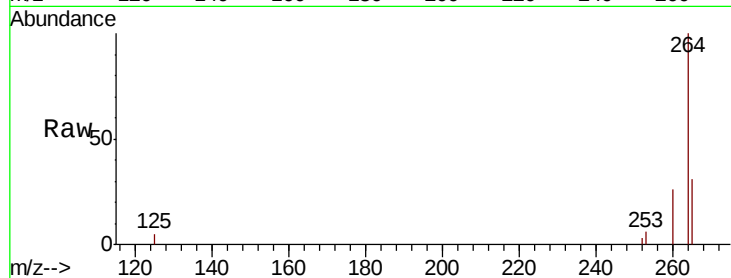
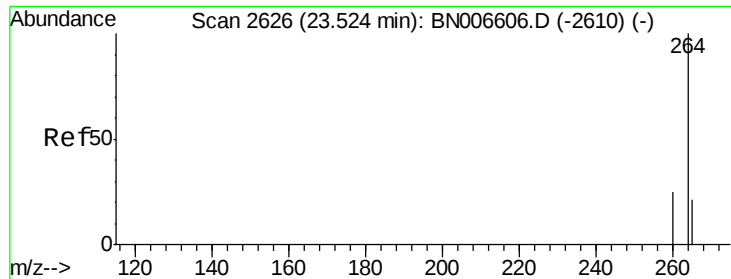


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.48 min Scan# 2612

Delta R.T. -0.05 min

Lab File: BN006636.D

Acq: 29 Jun 2019 04:30

Instrument :

BNA\_N

ClientSampleId :

W-4

Tot Ion: 264 Resp: 28603

Ion Ratio Lower Upper

264 100

260 26.0 20.2 30.2

265 31.0 23.3 34.9

