

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094028.D
 Acq On : 29 Mar 2017 19:44
 Operator : SJ/MA
 Sample : I2440-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-20-41

Quant Time: Mar 30 01:09:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

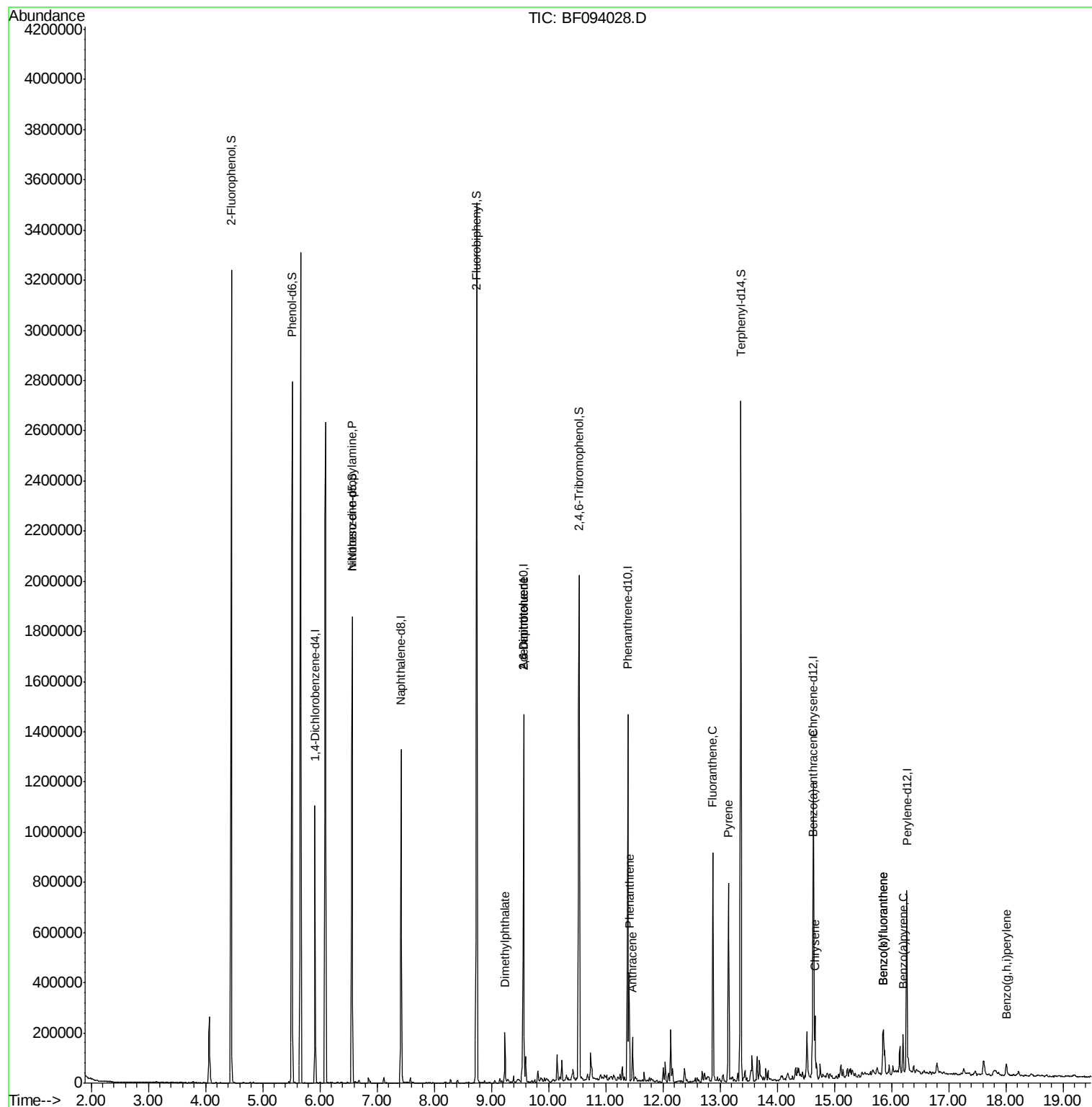
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	166844	20.00	ng	-0.04
21) Naphthalene-d8	7.42	136	694189	20.00	ng	-0.04
38) Acenaphthene-d10	9.56	164	323328	20.00	ng	-0.04
63) Phenanthrene-d10	11.39	188	559666	20.00	ng	-0.04
75) Chrysene-d12	14.63	240	430317	20.00	ng	-0.05
86) Perylene-d12	16.27	264	296386	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.45	112	994865	100.71	ng	-0.02
7) Phenol-d6	5.52	99	1271102	104.02	ng	-0.04
23) Nitrobenzene-d5	6.56	82	779894	64.11	ng	-0.04
41) 2,4,6-Tribromophenol	10.53	330	274859	107.58	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1322135	62.37	ng	-0.04
78) Terphenyl-d14	13.37	244	1000123	52.10	ng	-0.04
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.56	70	102812	13.09	ng	# 80
49) Dimethylphthalate	9.24	163	85048	3.70	ng	98
50) 2,6-Dinitrotoluene	9.56	165	40820	7.75	ng	# 34
56) 2,4-Dinitrotoluene	9.56	165	40820	6.17	ng	# 33
70) Phenanthrene	11.41	178	169108	5.43	ng	99
71) Anthracene	11.47	178	67345	2.10	ng	97
74) Fluoranthene	12.87	202	389213	12.21	ng	97
77) Pyrene	13.15	202	333827	10.69	ng	97
80) Benzo(a)anthracene	14.62	228	104064	4.15	ng	98
82) Chrysene	14.66	228	107560	4.62	ng	96
87) Benzo(b)fluoranthene	15.86	252	127861	7.04	ng	98
88) Benzo(k)fluoranthene	15.86	252	127861	7.19	ng	97
89) Benzo(a)pyrene	16.20	252	63563	3.80	ng	97
91) Benzo(a,h,i)perylene	18.01	276	36052	2.52	ng	94

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.92 min Scan# 685

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-20-41

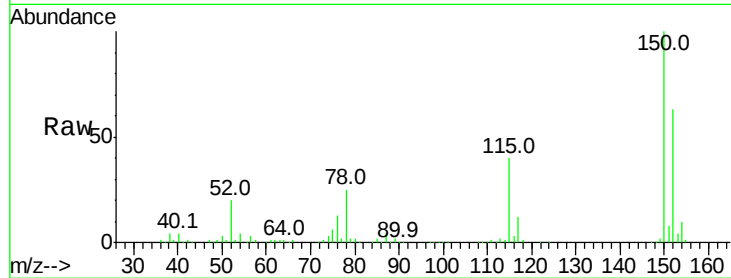
Tot Ion:152 Resp: 166844

Ion Ratio Lower Upper

152 100

150 158.1 126.2 189.2

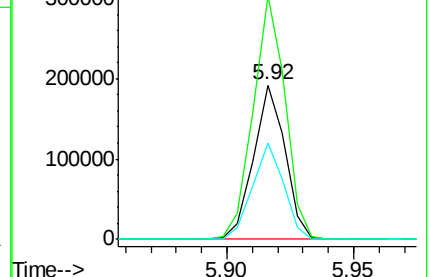
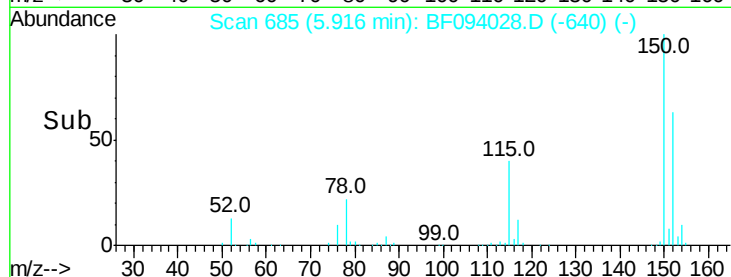
115 62.8 52.2 78.2



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



#5

2-Fluorophenol

Concen: 100.71 ng

RT: 4.45 min Scan# 436

Delta R.T. -0.02 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

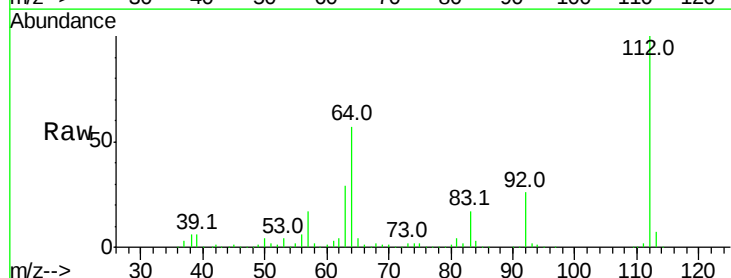
Tgt Ion:112 Resp: 994865

Ion Ratio Lower Upper

112 100

64 56.9 46.0 69.0

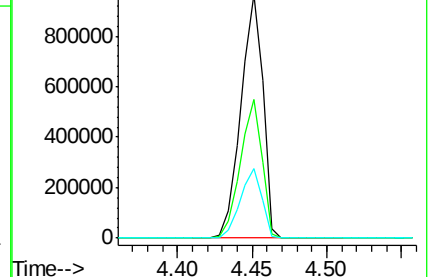
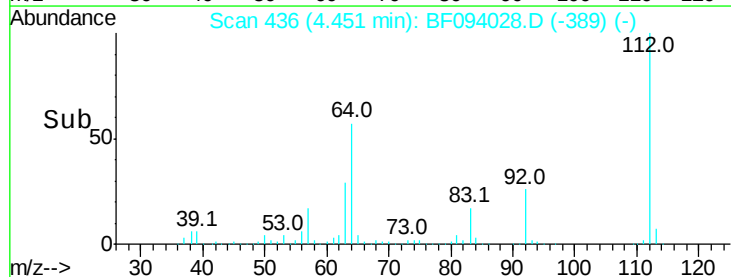
63 28.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 104.02 ng

RT: 5.52 min Scan# 617

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-20-41

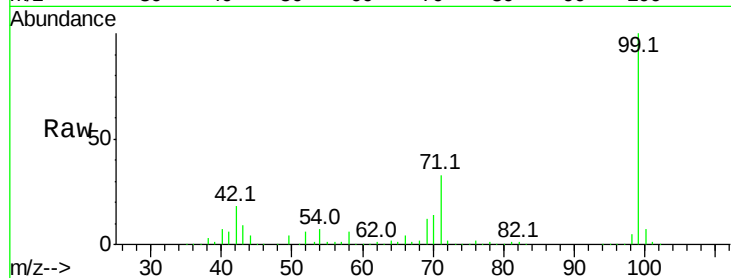
Tot Ion: 99 Resp: 1271102

Ion Ratio Lower Upper

99 100

42 18.2 13.5 20.3

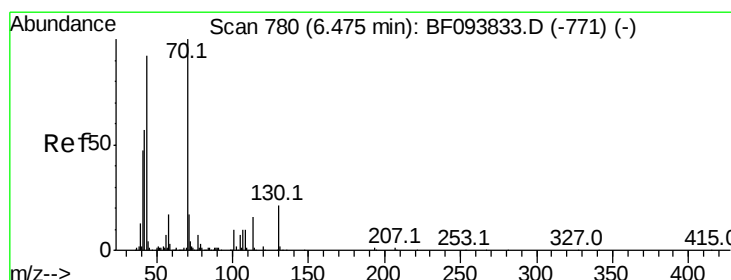
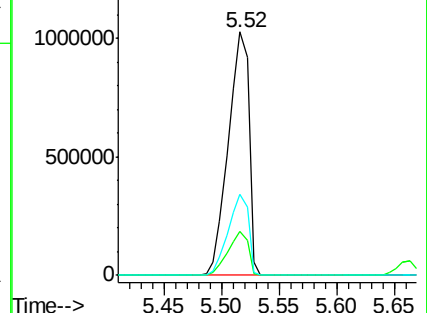
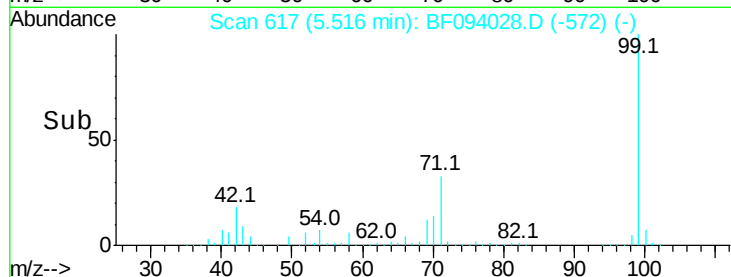
71 33.3 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.09 ng

RT: 6.56 min Scan# 795

Delta R.T. 0.12 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Tgt Ion: 70 Resp: 102812

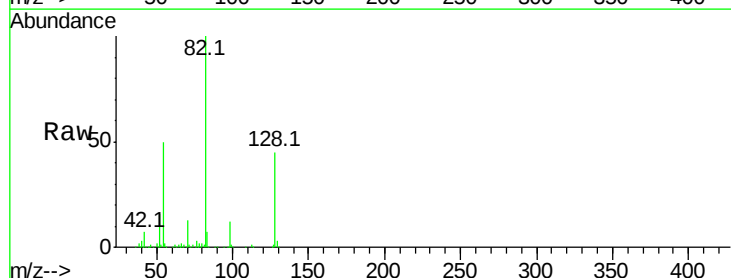
Ion Ratio Lower Upper

70 100

42 49.3 47.2 70.8

101 0.0 7.2 10.8#

130 2.5 15.9 23.9#

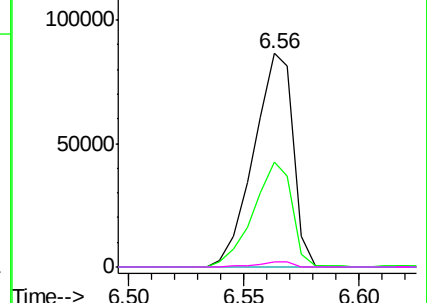
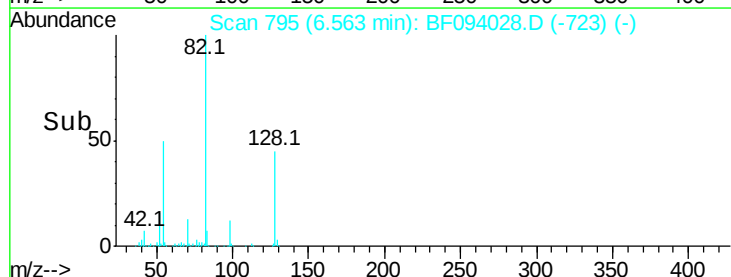


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.42 min Scan# 941

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-20-41

Tot Ion:136 Resp: 694189

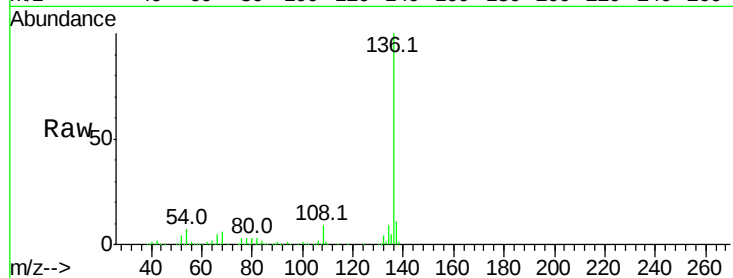
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 6.9 4.9 7.3

68 5.6 4.1 6.1

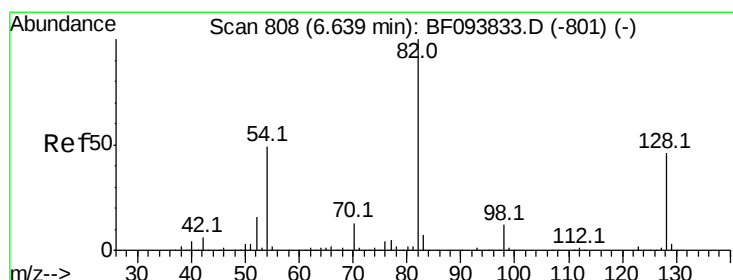
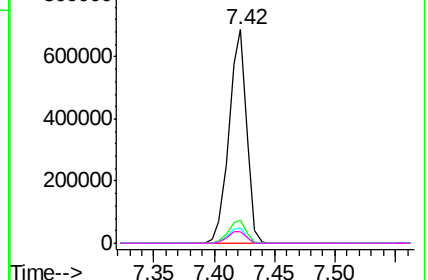
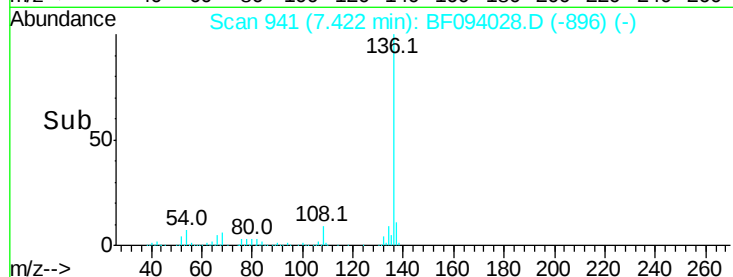


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 64.11 ng

RT: 6.56 min Scan# 795

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

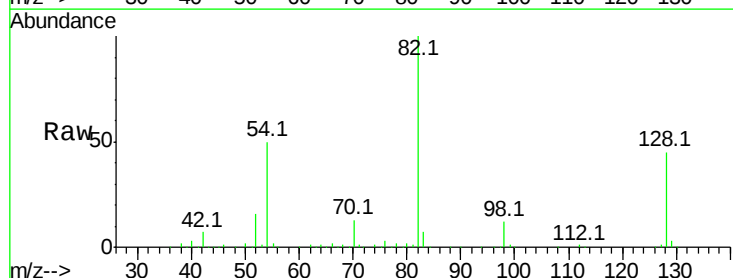
Tgt Ion: 82 Resp: 779894

Ion Ratio Lower Upper

82 100

128 45.4 34.0 51.0

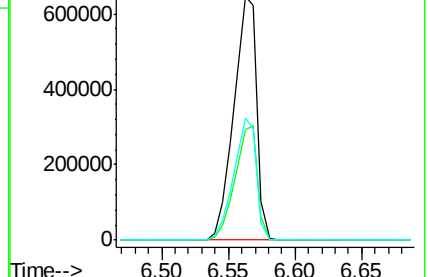
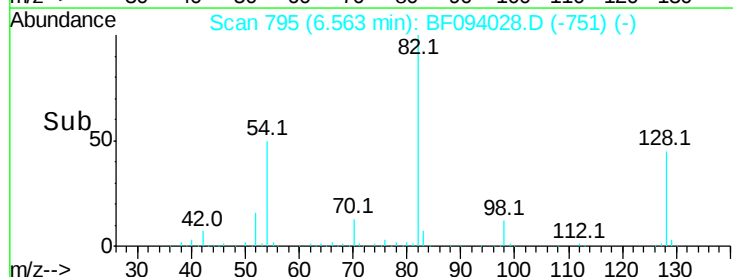
54 50.2 42.2 63.2

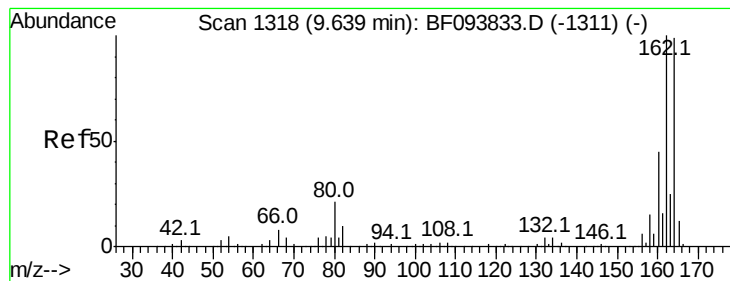


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 1305

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-20-41

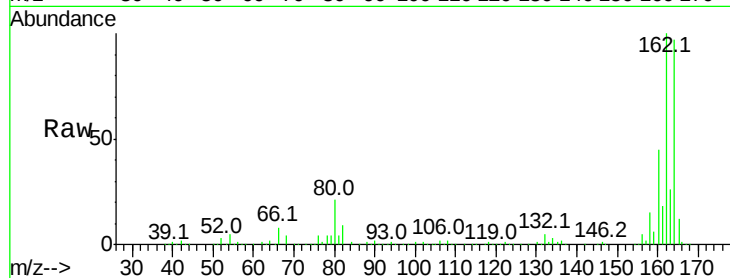
Tot Ion:164 Resp: 323328

Ion Ratio Lower Upper

164 100

162 102.8 82.6 123.8

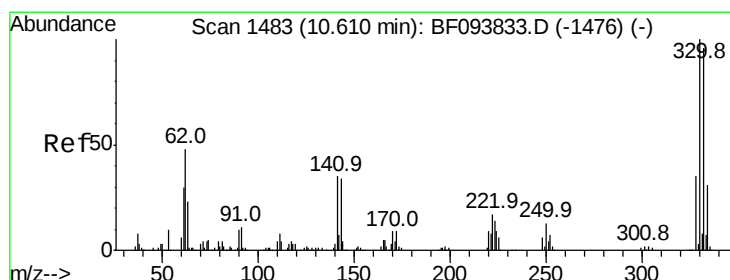
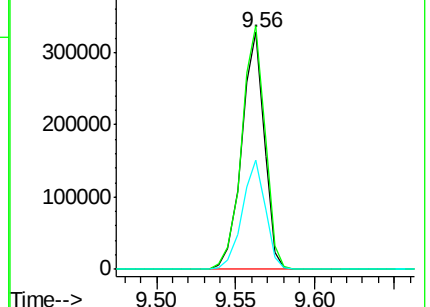
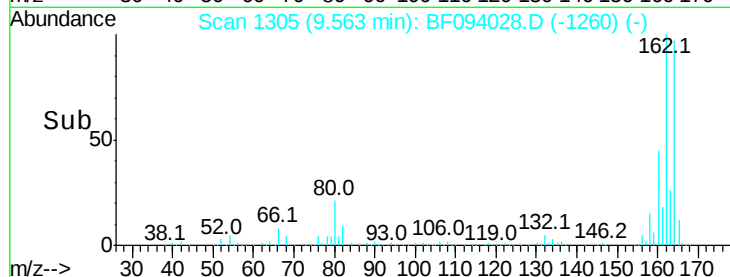
160 46.1 36.2 54.2



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



#41

2,4,6-Tribromophenol

Concen: 107.58 ng

RT: 10.53 min Scan# 1470

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

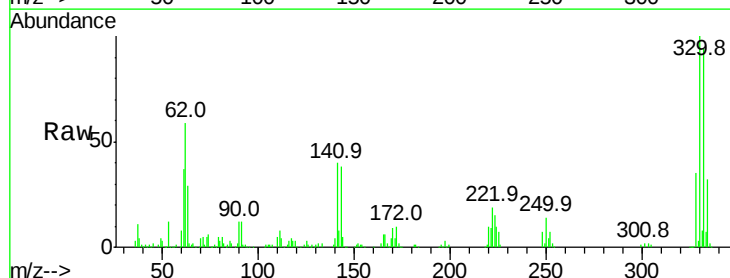
Tgt Ion:330 Resp: 274859

Ion Ratio Lower Upper

330 100

332 94.6 76.6 115.0

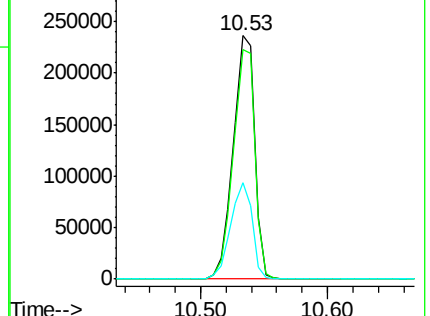
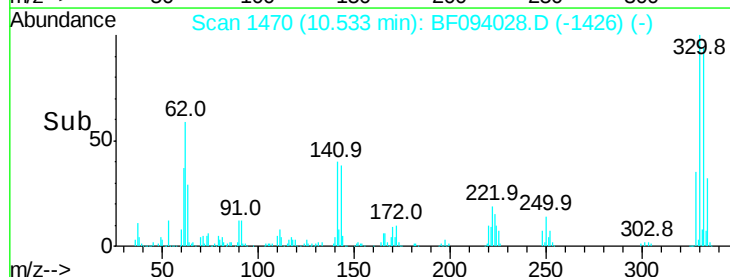
141 40.0 31.4 47.2



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



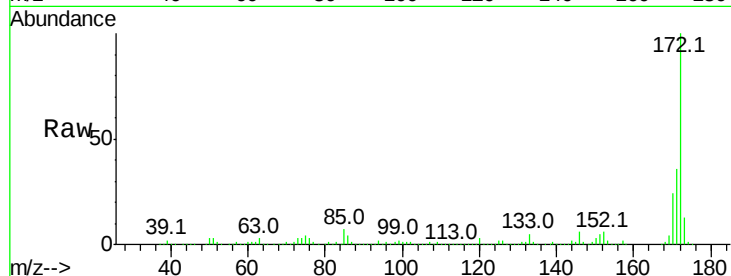


#44
 2-Fluorobiphenyl
 Concen: 62.37 ng
 RT: 8.75 min Scan# 1166
 Delta R.T. -0.04 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

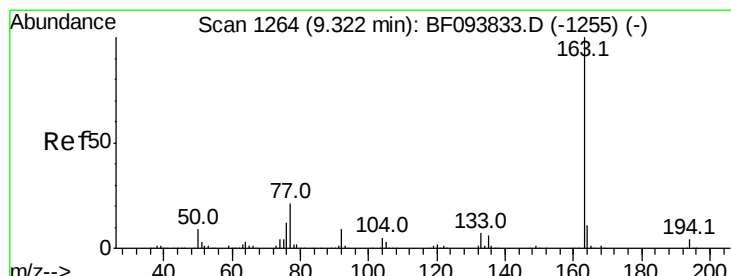
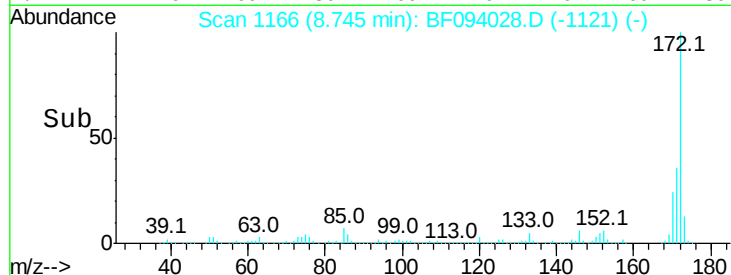
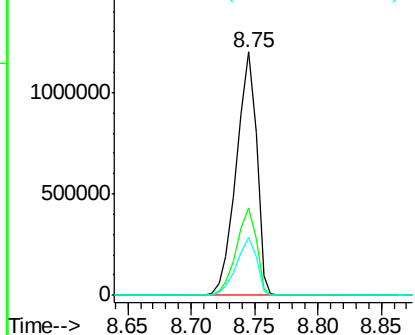
Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-20-41

Tot Ion:172 Resp: 1322135

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	24.1	19.8	29.8



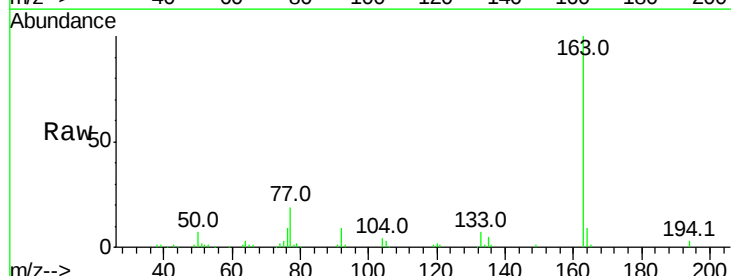
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



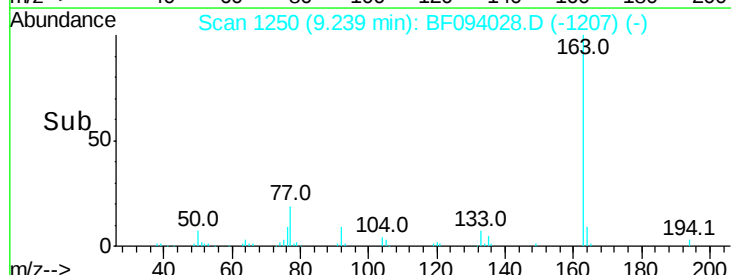
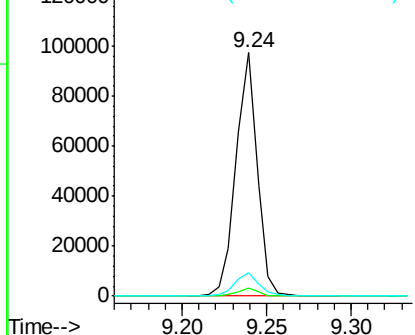
#49
 Dimethylphthalate
 Concen: 3.70 ng
 RT: 9.24 min Scan# 1250
 Delta R.T. -0.05 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

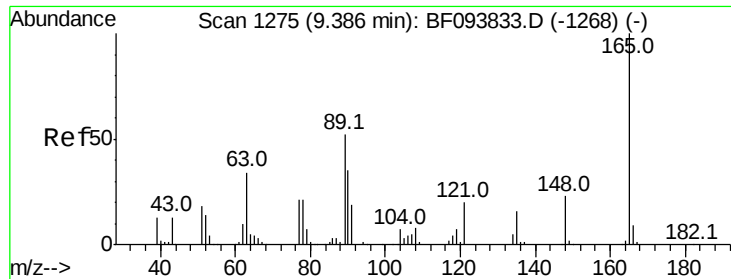
Tgt Ion:163 Resp: 85048

Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	9.4	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

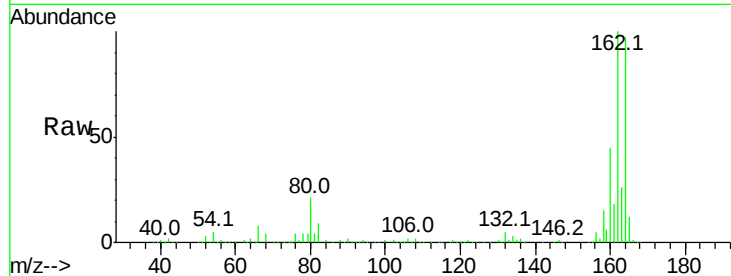




#50
 2,6-Dinitrotoluene
 Concen: 7.75 ng
 RT: 9.56 min Scan# 1305
 Delta R.T. 0.21 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

Instrument :
 BNA_F
 ClientSampleId :
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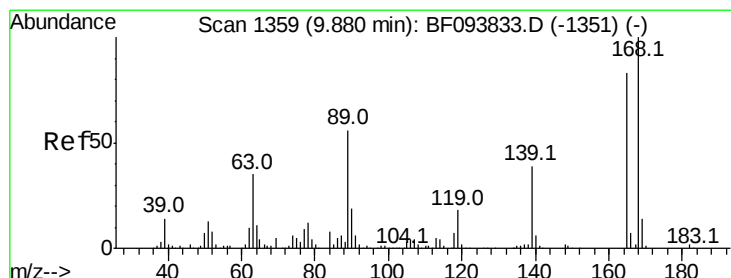
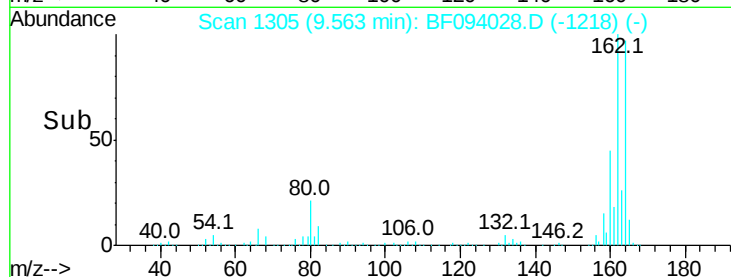
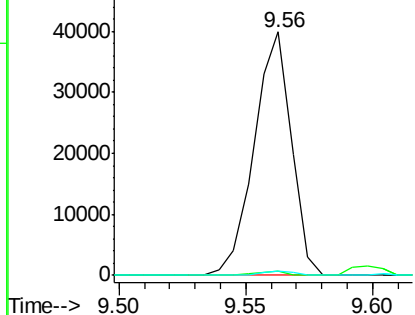
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.3	51.5#
89	1.8	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

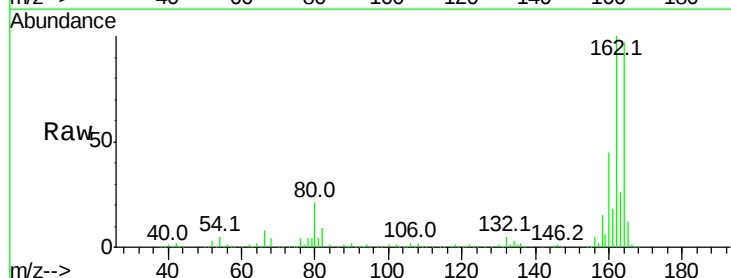
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56
 2,4-Dinitrotoluene
 Concen: 6.17 ng
 RT: 9.56 min Scan# 1305
 Delta R.T. -0.28 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	1.8	46.4	69.6#
182	0.0	1.8	2.6#

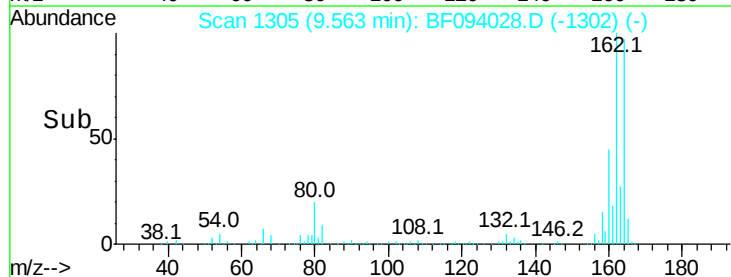
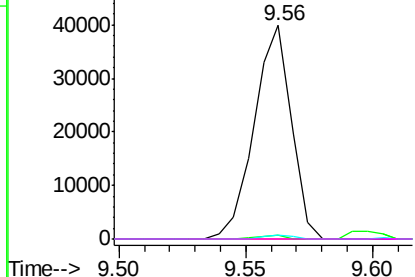


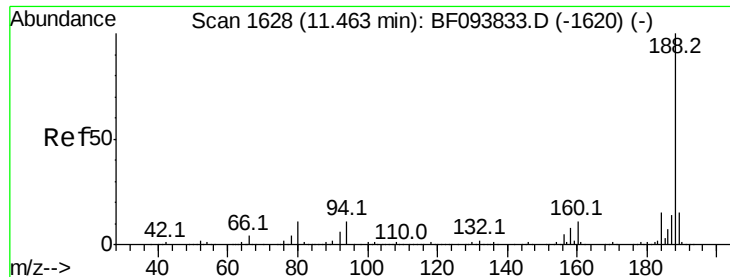
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

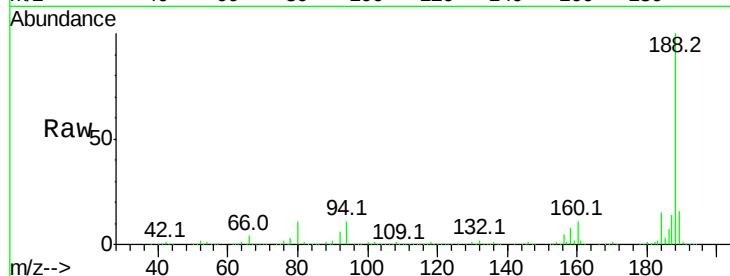




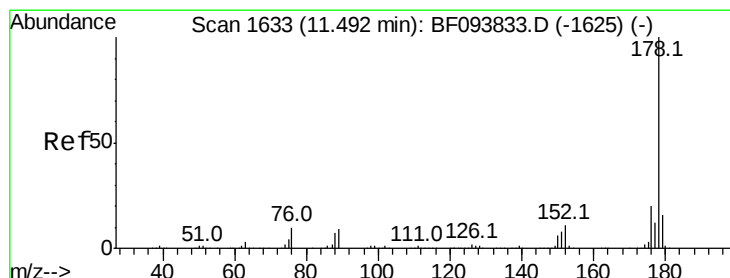
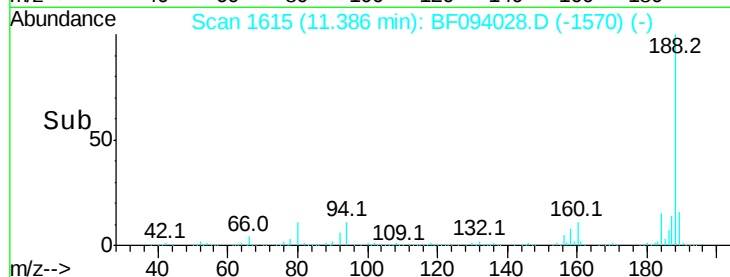
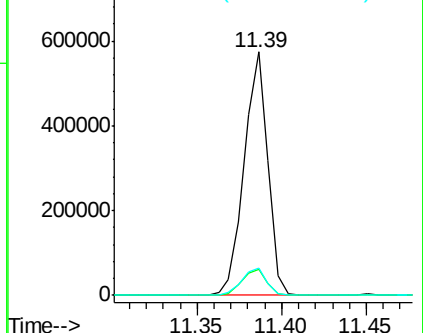
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.04 min
Lab File: BF094028.D
Acq: 29 Mar 2017 19:44

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-20-41

Tot Ion:188 Resp: 559666
Ion Ratio Lower Upper
188 100
94 10.9 9.4 14.2
80 11.4 10.2 15.2

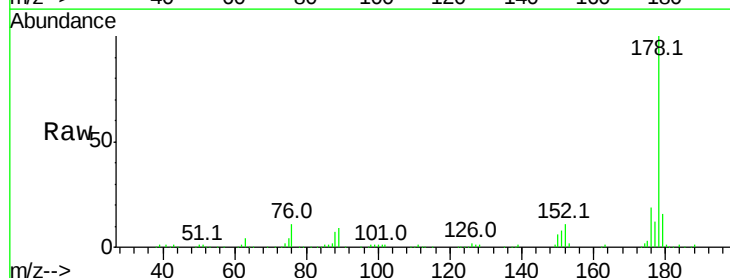


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

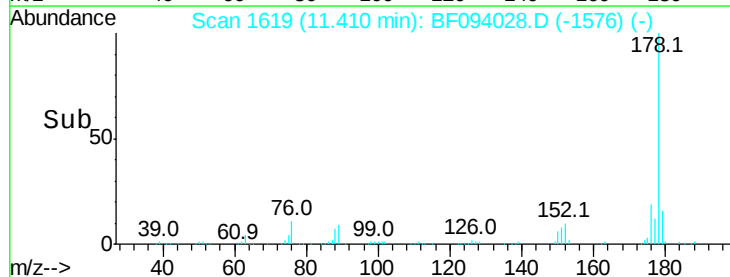
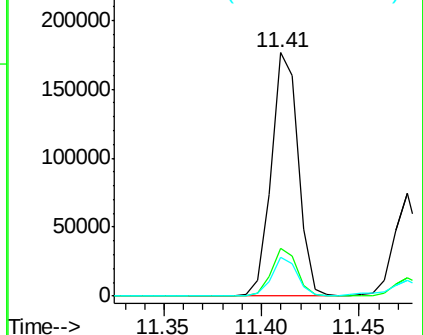


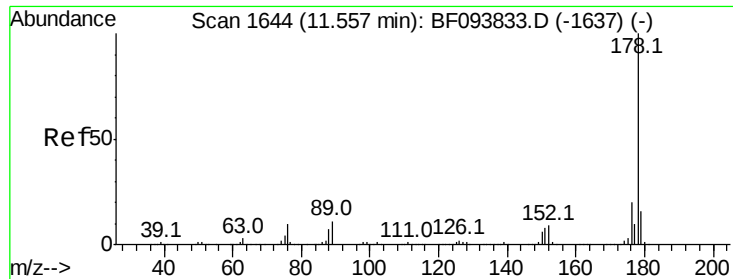
#70
Phenanthrene
Concen: 5.43 ng
RT: 11.41 min Scan# 1619
Delta R.T. -0.05 min
Lab File: BF094028.D
Acq: 29 Mar 2017 19:44

Tgt Ion:178 Resp: 169108
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.8 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

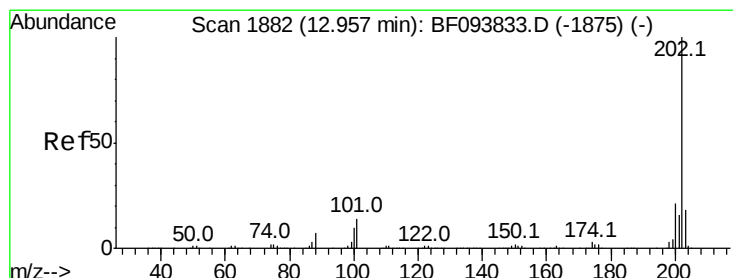
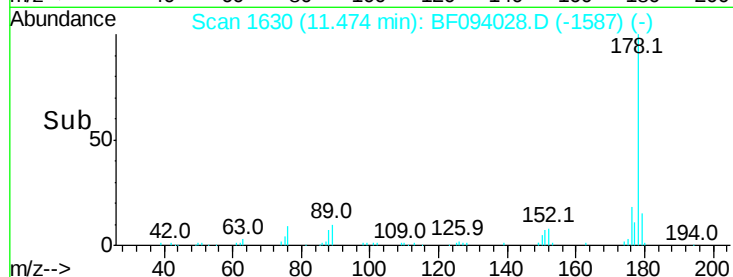
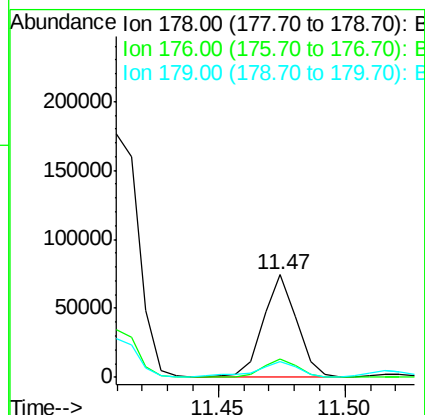
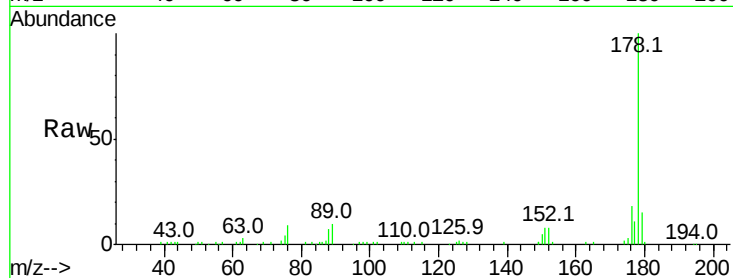




#71
 Anthracene
 Concen: 2.10 ng
 RT: 11.47 min Scan# 1630
 Delta R.T. -0.05 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

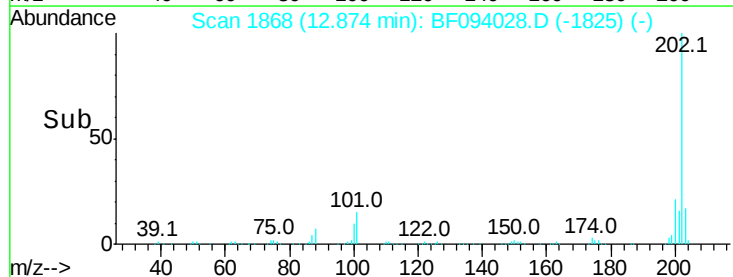
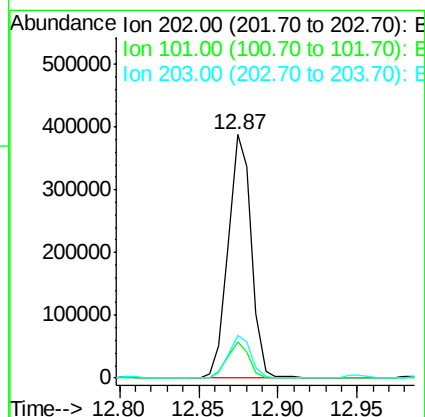
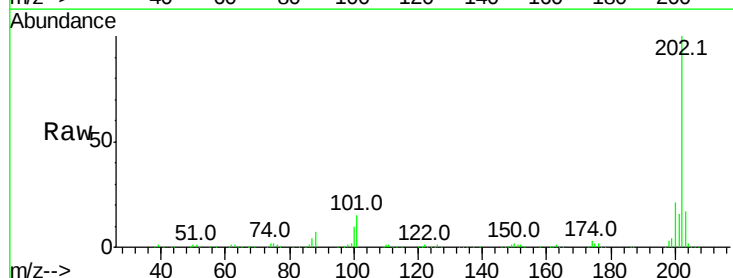
Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-20-41

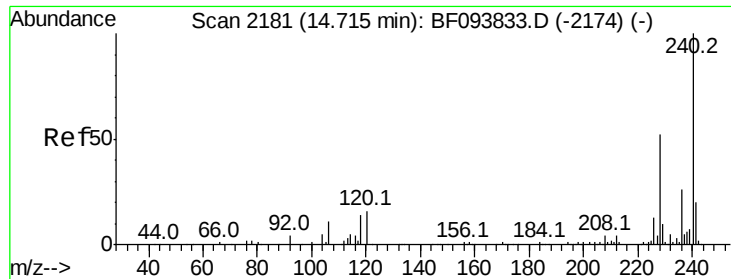
Tot Ion:178 Resp: 67345
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.8 23.8
 179 15.0 12.7 19.1



#74
 Fluoranthene
 Concen: 12.21 ng
 RT: 12.87 min Scan# 1868
 Delta R.T. -0.05 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

Tgt Ion:202 Resp: 389213
 Ion Ratio Lower Upper
 202 100
 101 14.9 0.0 33.2
 203 17.3 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.63 min Scan# 2167

Delta R.T. -0.05 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-20-41

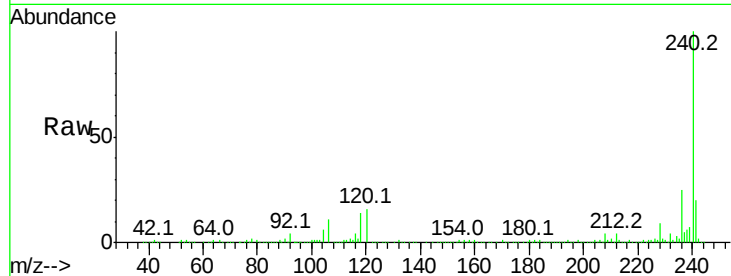
Tot Ion:240 Resp: 430317

Ion Ratio Lower Upper

240 100

120 16.5 5.8 8.8#

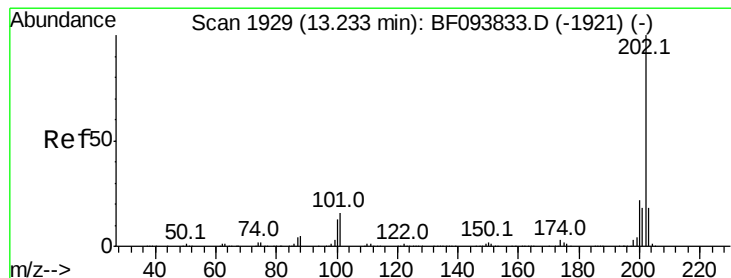
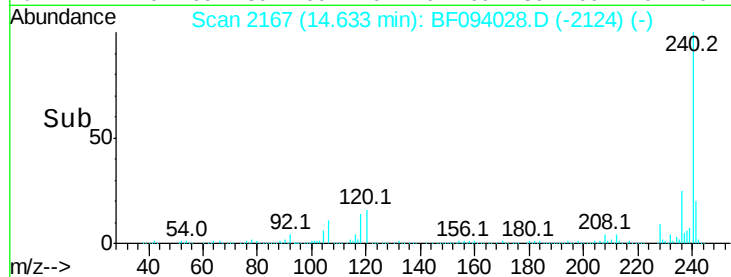
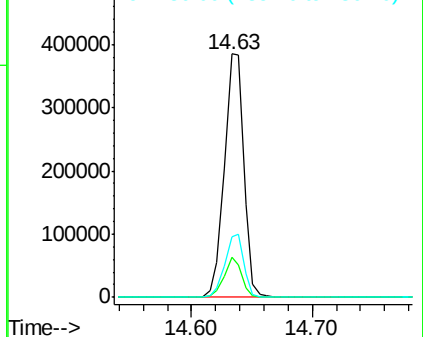
236 24.7 20.5 30.7



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



#77

Pyrene

Concen: 10.69 ng

RT: 13.15 min Scan# 1915

Delta R.T. -0.05 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

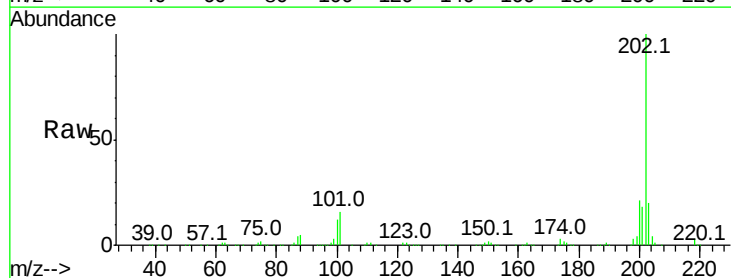
Tgt Ion:202 Resp: 333827

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

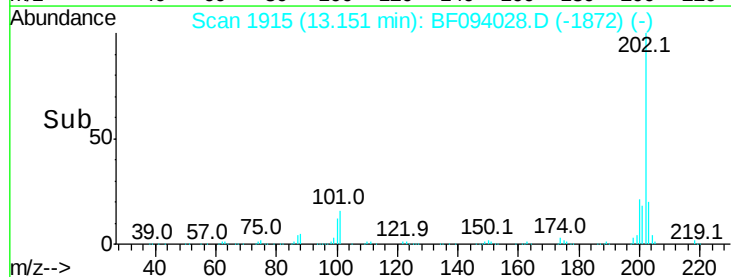
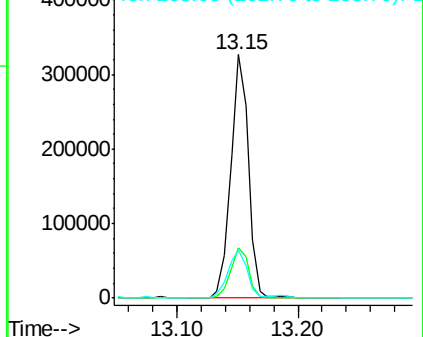
203 19.6 14.4 21.6

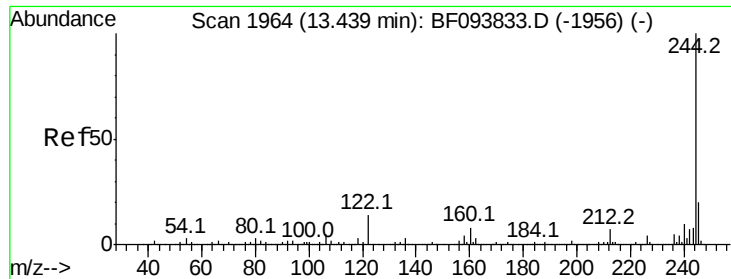


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

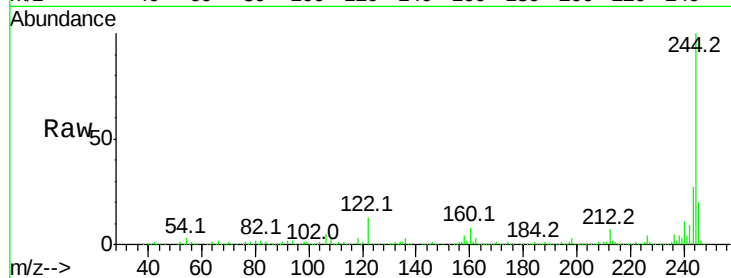




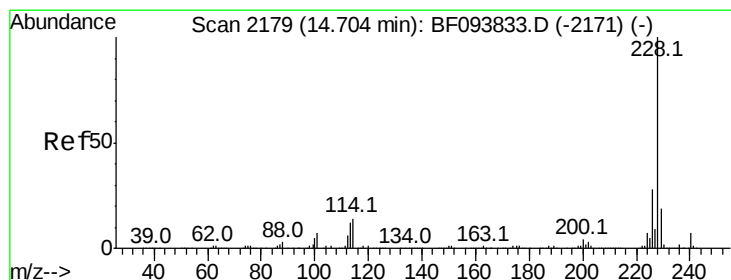
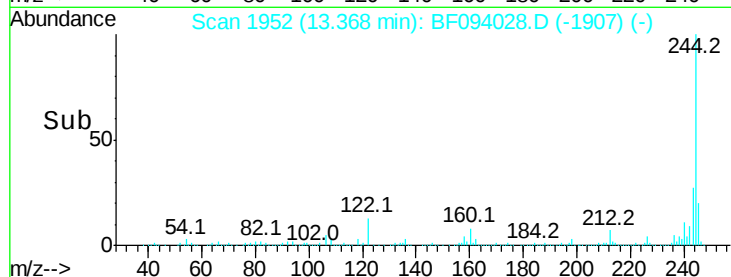
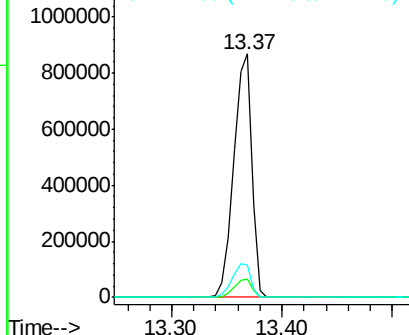
#78
 Terphenyl-d14
 Concen: 52.10 ng
 RT: 13.37 min Scan# 1952
 Delta R.T. -0.04 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-20-41

Tot Ion:244 Resp: 1000123
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.0 9.0
 122 13.1 10.3 15.5

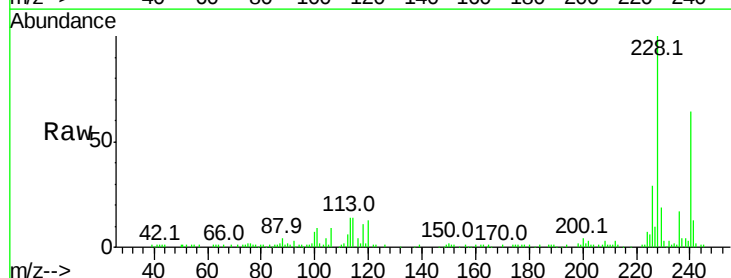


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

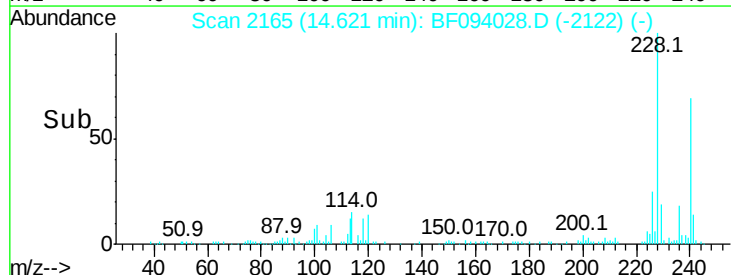
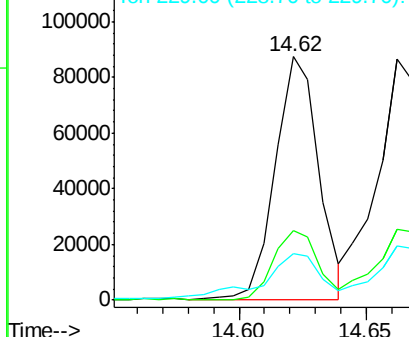


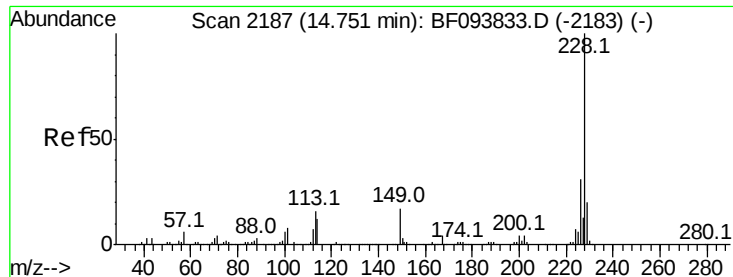
#80
 Benzo(a)anthracene
 Concen: 4.15 ng
 RT: 14.62 min Scan# 2165
 Delta R.T. -0.05 min
 Lab File: BF094028.D
 Acq: 29 Mar 2017 19:44

Tgt Ion:228 Resp: 104064
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.6 33.8
 229 19.3 16.3 24.5



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





#82

Chrysene

Concen: 4.62 ng

RT: 14.66 min Scan# 2172

Delta R.T. -0.05 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-20-41

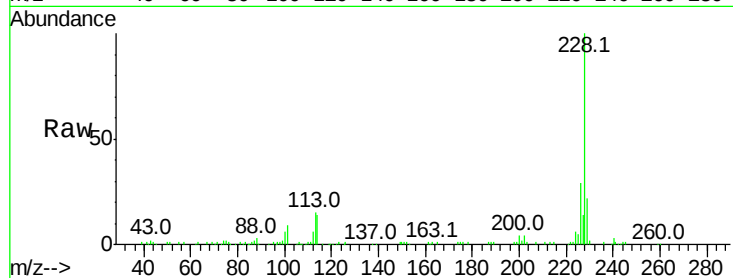
Tot Ion:228 Resp: 107560

Ion Ratio Lower Upper

228 100

226 29.5 24.9 37.3

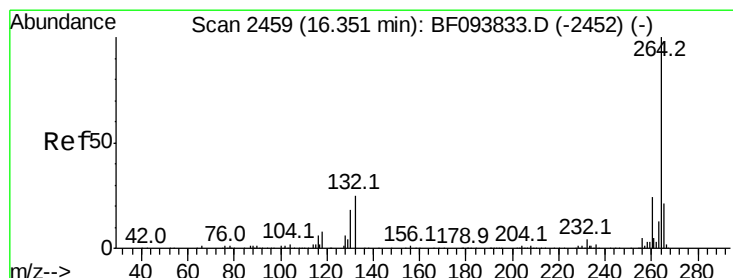
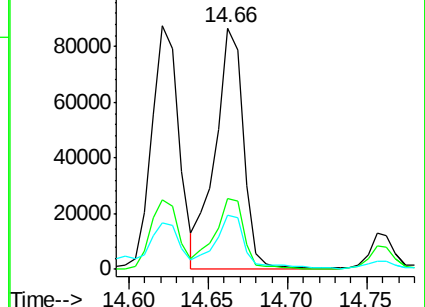
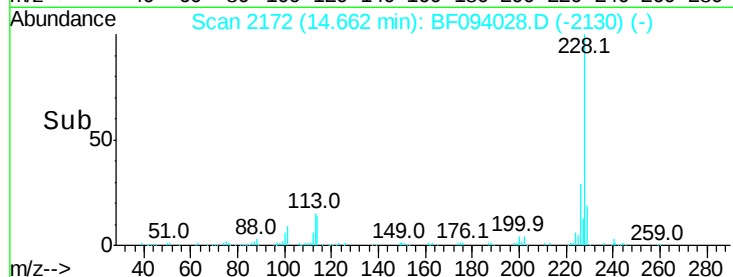
229 22.5 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.27 min Scan# 2445

Delta R.T. -0.04 min

Lab File: BF094028.D

Acq: 29 Mar 2017 19:44

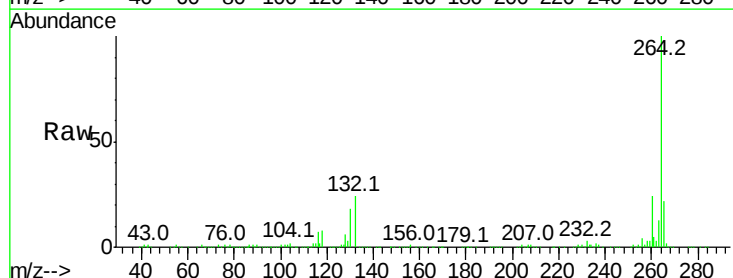
Tgt Ion:264 Resp: 296386

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

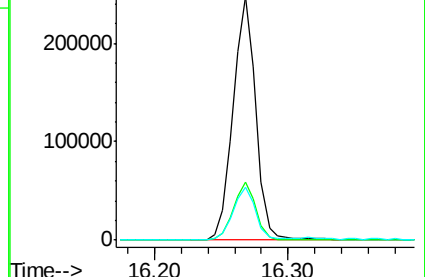
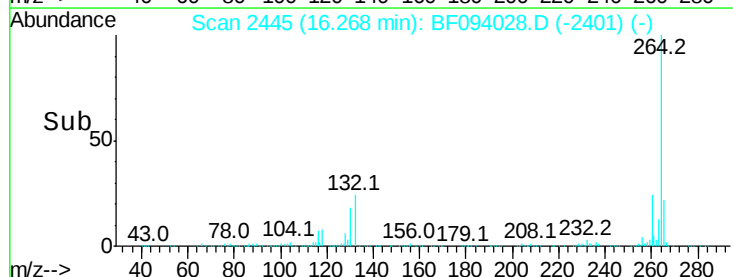
265 22.0 17.2 25.8

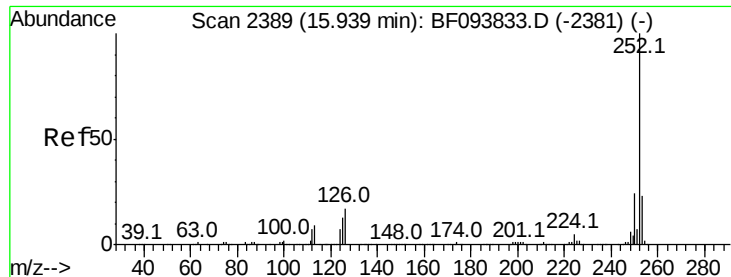


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

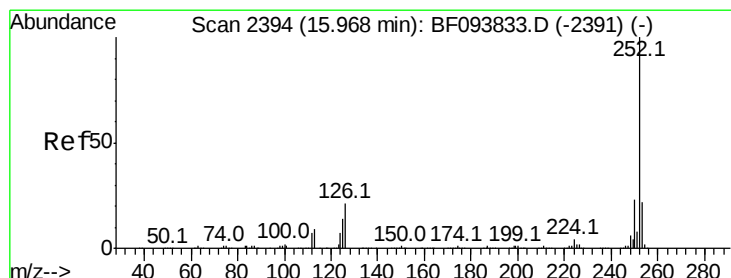
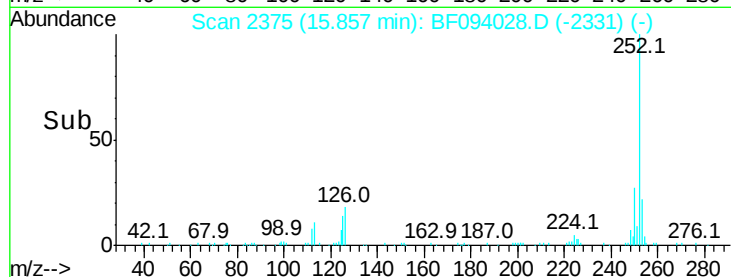
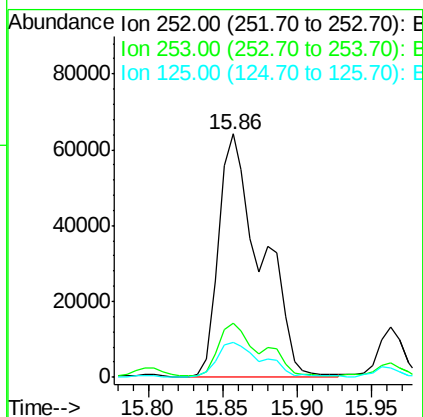
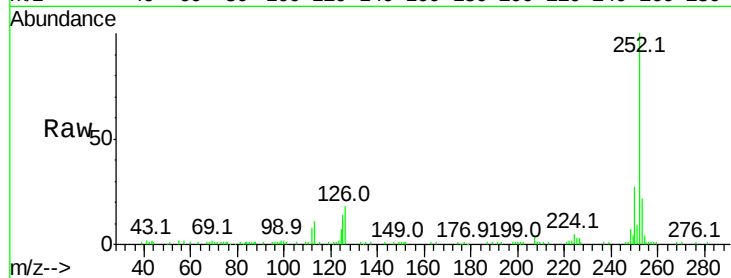




#87
Benzo(b)fluoranthene
Concen: 7.04 ng
RT: 15.86 min Scan# 2375
Delta R.T. -0.04 min
Lab File: BF094028.D
Acq: 29 Mar 2017 19:44

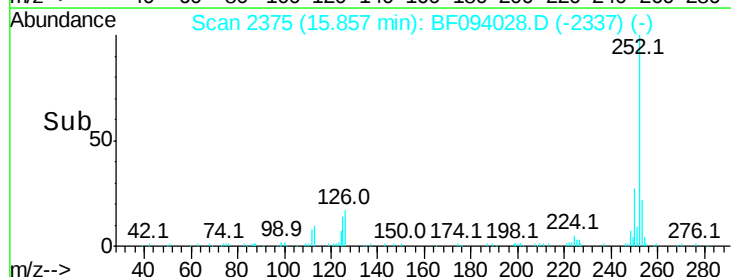
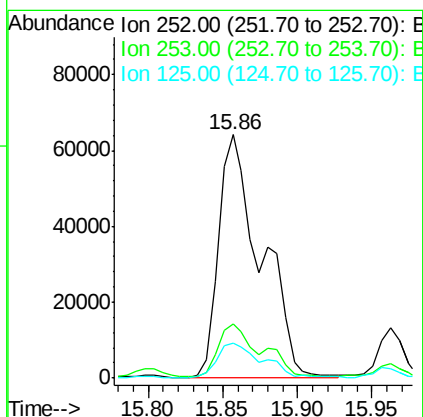
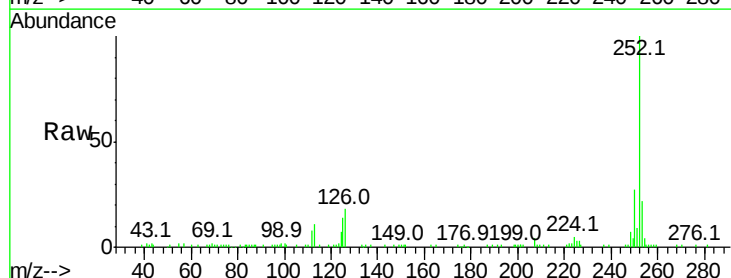
Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-20-41

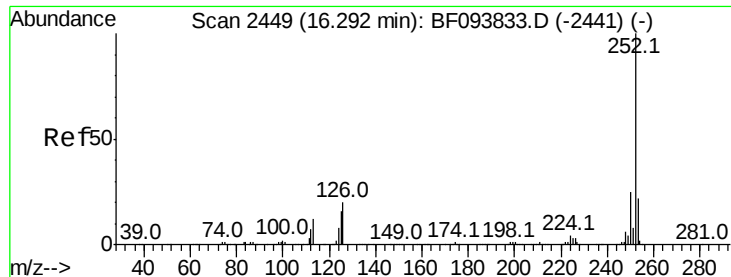
Tot Ion:252 Resp: 127861
Ion Ratio Lower Upper
252 100
253 22.4 18.1 27.1
125 14.1 9.8 14.8



#88
Benzo(k)fluoranthene
Concen: 7.19 ng
RT: 15.86 min Scan# 2375
Delta R.T. -0.08 min
Lab File: BF094028.D
Acq: 29 Mar 2017 19:44

Tgt Ion:252 Resp: 127861
Ion Ratio Lower Upper
252 100
253 22.4 18.4 27.6
125 14.1 13.1 19.7

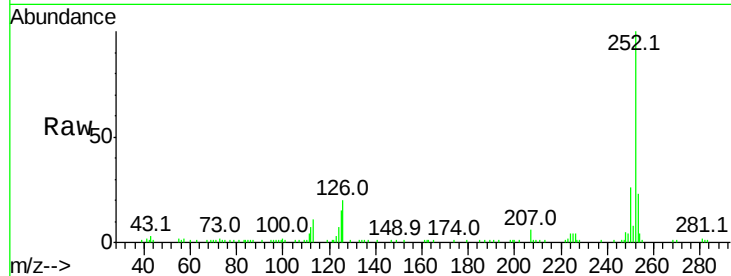




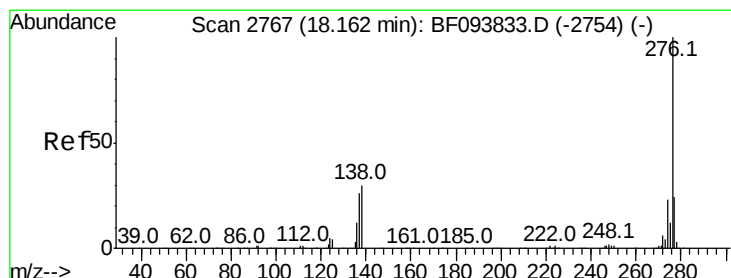
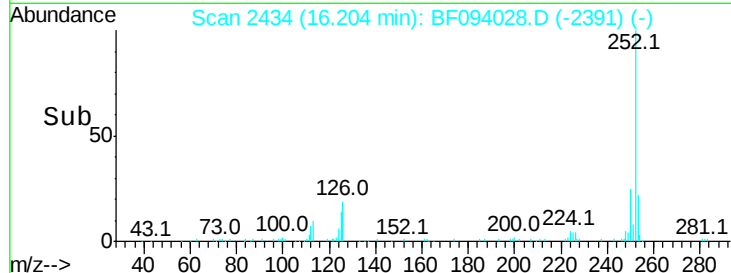
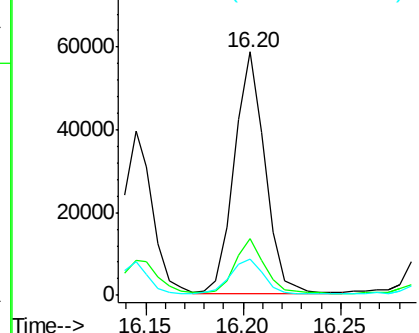
#89
Benzo(a)pyrene
Concen: 3.80 ng
RT: 16.20 min Scan# 2434
Delta R.T. -0.05 min
Lab File: BF094028.D
Acq: 29 Mar 2017 19:44

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-20-41

Tot Ion:252 Resp: 63563
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 15.0 11.0 16.4

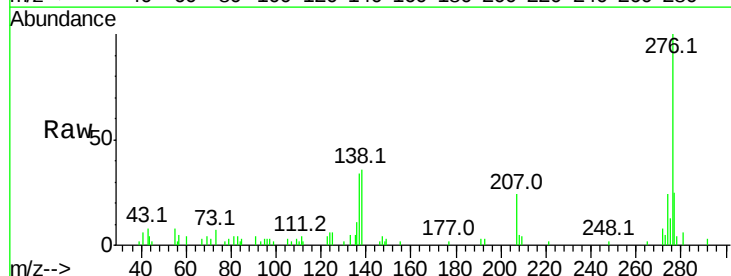


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.52 ng
RT: 18.01 min Scan# 2741
Delta R.T. -0.09 min
Lab File: BF094028.D
Acq: 29 Mar 2017 19:44

Tgt Ion:276 Resp: 36052
Ion Ratio Lower Upper
276 100
277 25.4 18.6 28.0
138 35.5 25.4 38.0



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

