

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082915\
 Data File : BF081294.D
 Acq On : 30 Aug 2015 3:04
 Operator : UM/IZ
 Sample : G3430-08DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB5(3-4)DL

Manual Integrations
 APPROVED

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 8/31/2015 1:59:33 PM

Quant Time: Aug 31 03:59:43 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 31 00:56:51 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	56163	20.00	ng	0.00
21) Naphthalene-d8	7.77	136	222339	20.00	ng	0.00
38) Acenaphthene-d10	9.51	164	95688	20.00	ng	-0.01
63) Phenanthrene-d10	10.98	188	196170	20.00	ng	0.00
75) Chrysene-d12	13.60	240	127284	20.00	ng	0.00
86) Perylene-d12	14.92	264	99345	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.04	112	102978	27.58	ng	0.01
7) Phenol-d6	6.15	99	139607	28.66	ng	0.01
23) Nitrobenzene-d5	7.05	82	92349	18.97	ng	-0.01
41) 2,4,6-Tribromophenol	10.30	330	22444	27.06	ng	-0.01
44) 2-Fluorobiphenyl	8.85	172	143875	19.70	ng	-0.01
78) Terphenyl-d14	12.56	244	115975	19.53	ng	-0.01
Target Compounds						Qvalue
49) Dimethylphthalate	9.26	163	17673	2.24	ng	99
51) Acenaphthene	9.54	154	20025	2.76	ng	98
57) Fluorene	10.06	166	15564	2.08	ng	# 98
70) Phenanthrene	11.01	178	232594	20.01	ng	99
71) Anthracene	11.05	178	50990	4.51	ng	100
72) Carbazole	11.22	167	32155	2.95	ng	97
73) Di-n-butylphthalate	11.57	149	49717	3.77	ng	99
74) Fluoranthene	12.18	202	346306	27.60	ng	96
77) Pyrene	12.40	202	265320m	25.64	ng	
80) Benzo(a)anthracene	13.59	228	127182	14.90	ng	99
82) Chrysene	13.62	228	103629m	13.47	ng	
85) Indeno(1,2,3-cd)pyrene	16.06	276	58532	10.84	ng	93
87) Benzo(b)fluoranthene	14.58	252	143259m	20.39	ng	
88) Benzo(k)fluoranthene	14.60	252	19673m	3.00	ng	
89) Benzo(a)pyrene	14.87	252	84804	13.85	ng	97
90) Dibenzo(a,h)anthracene	16.07	278	20463	4.29	ng	# 85
91) Benzo(g,h,i)perylene	16.40	276	50887	10.51	ng	# 90

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

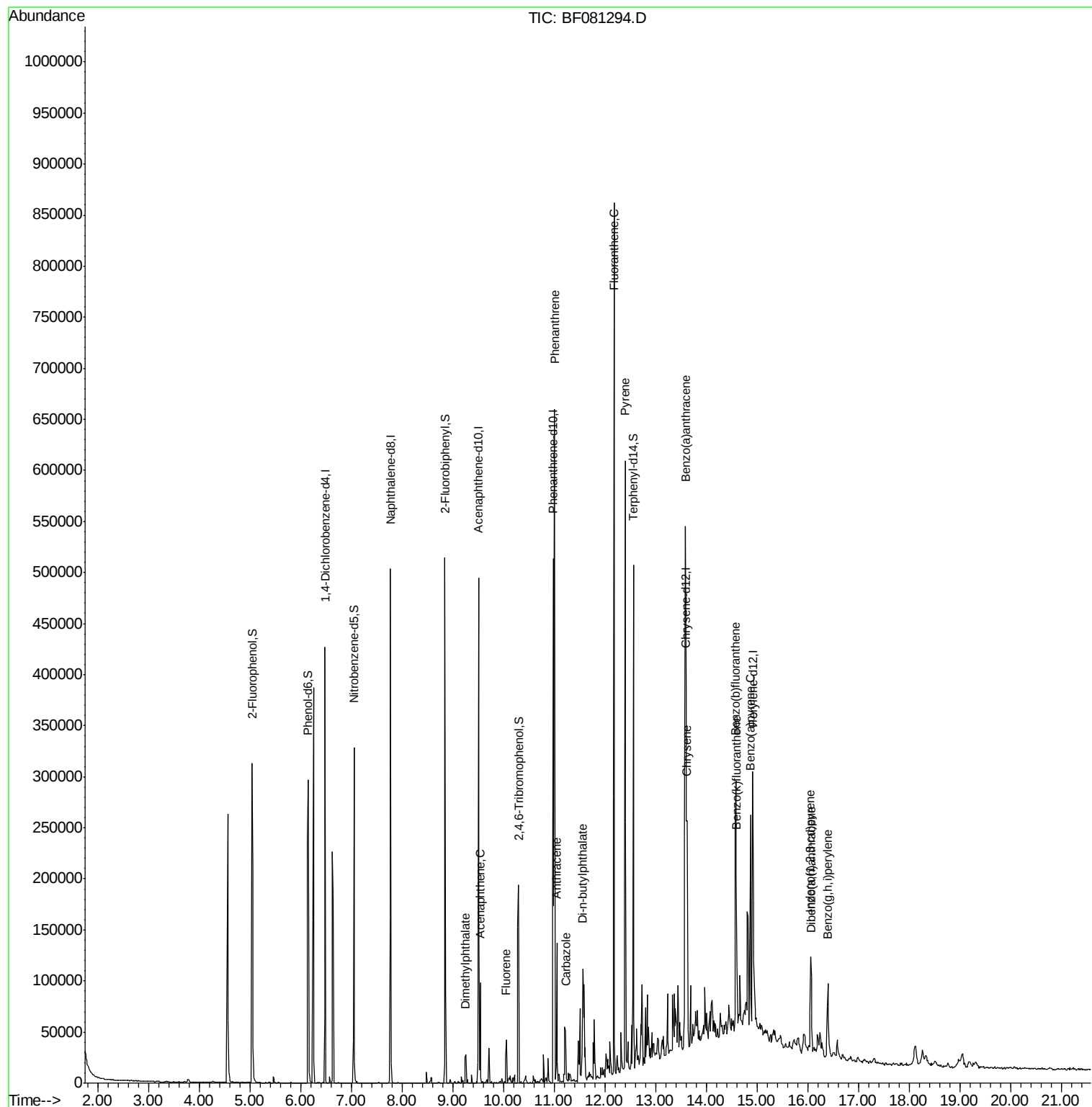
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082915\
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ALS Vial : 24 Sample Multiplier: 1

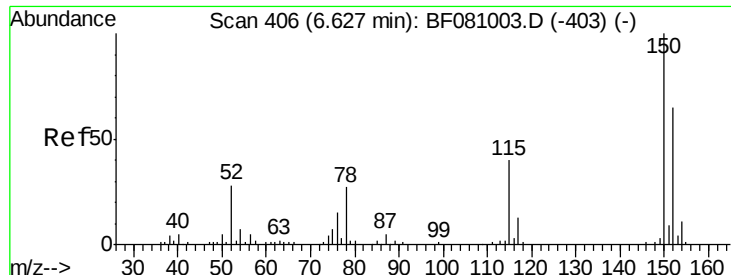
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.48 min Scan# 415

Delta R.T. 0.00 min

Lab File: BF081294.D

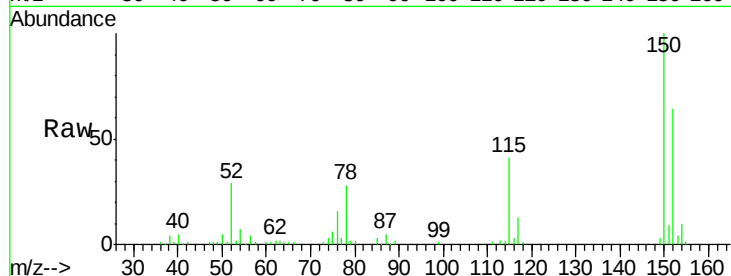
Acq: 30 Aug 2015 3:04

Instrument :

BNA_F

ClientSampleId :

SB5(3-4)DL



Tgt Ion:152 Resp: 56163

Ion Ratio Lower Upper

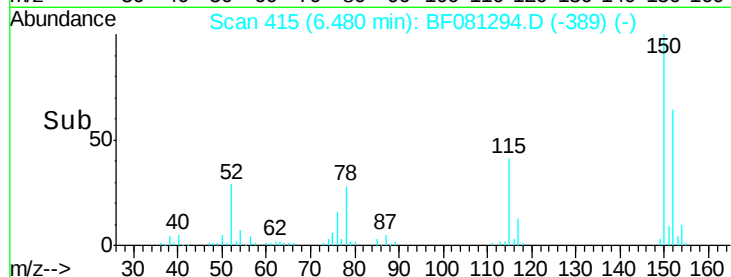
152 100

150 156.3 123.8 185.6

115 64.1 52.1 78.1

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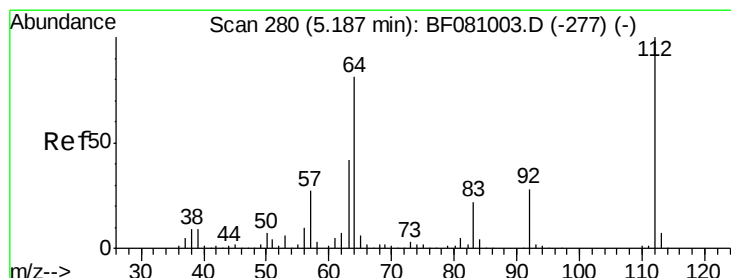
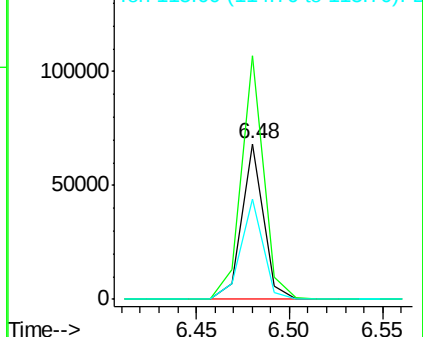
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 27.58 ng

RT: 5.04 min Scan# 289

Delta R.T. 0.01 min

Lab File: BF081294.D

Acq: 30 Aug 2015 3:04

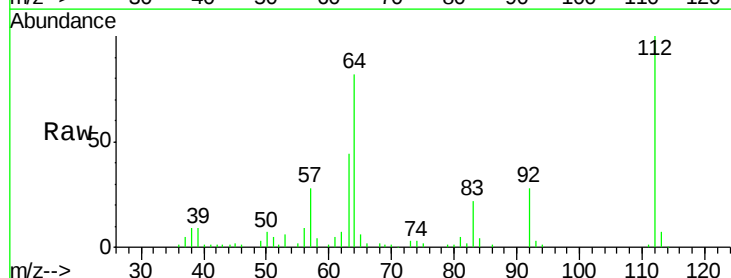
Tgt Ion:112 Resp: 102978

Ion Ratio Lower Upper

112 100

64 82.0 66.9 100.3

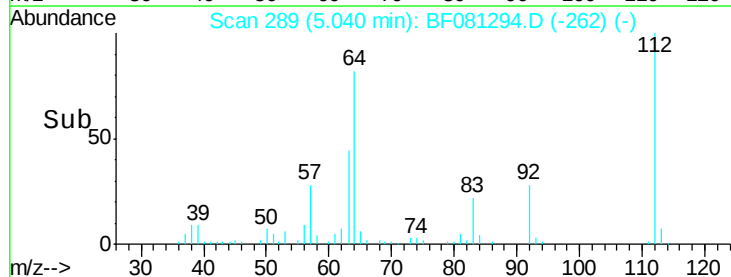
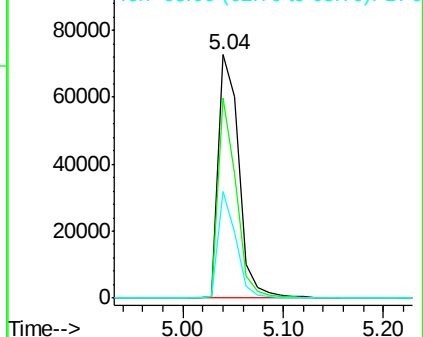
63 43.6 38.1 57.1

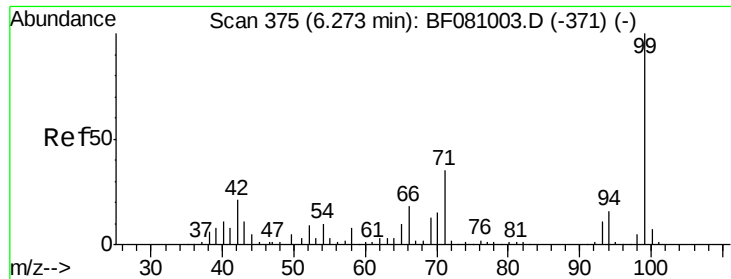


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 28.66 ng

RT: 6.15 min Scan# 386

Delta R.T. 0.01 min

Lab File: BF081294.D

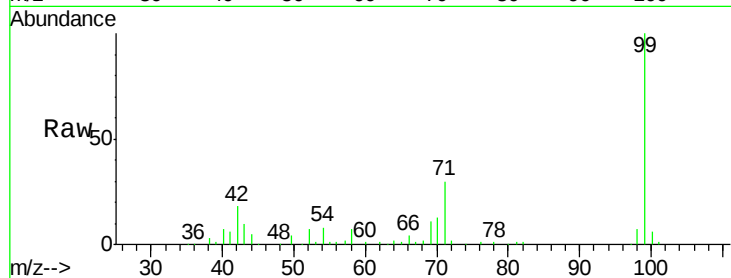
Acq: 30 Aug 2015 3:04

Instrument :

BNA_F

ClientSampleId :

SB5(3-4)DL



Tgt Ion: 99 Resp: 139607

Ion Ratio Lower Upper

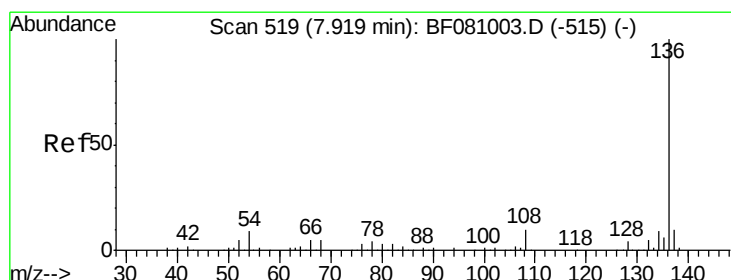
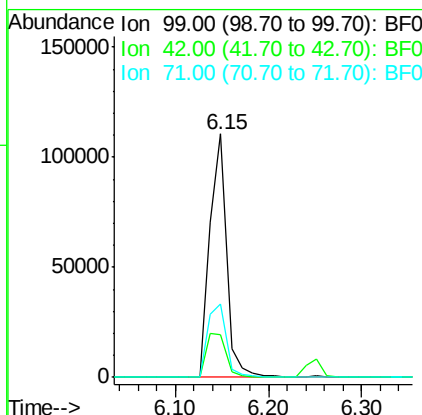
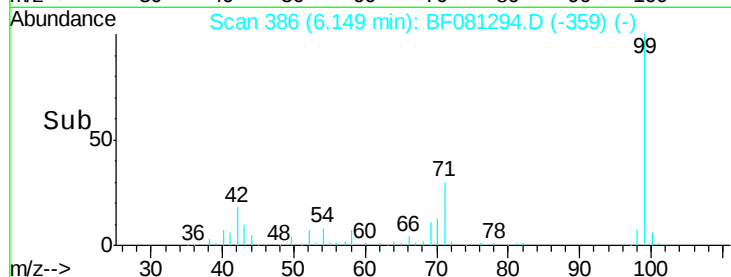
99 100

42 17.7 19.6 29.4#

71 29.9 31.2 46.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.77 min Scan# 528

Delta R.T. 0.00 min

Lab File: BF081294.D

Acq: 30 Aug 2015 3:04

Tgt Ion: 136 Resp: 222339

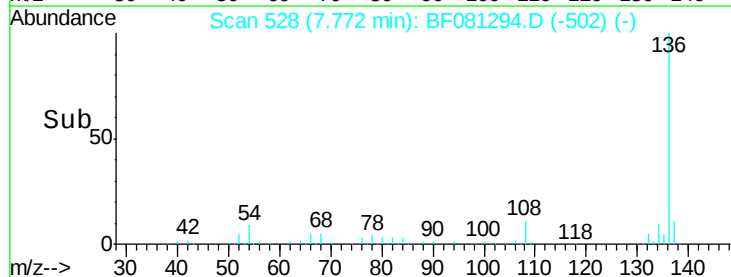
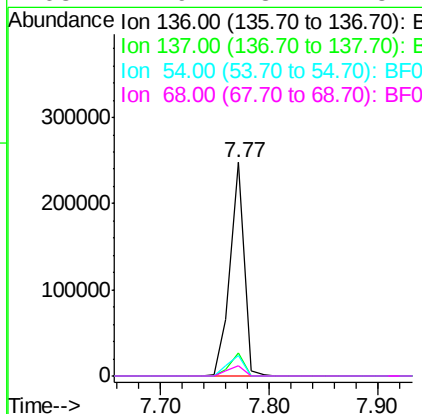
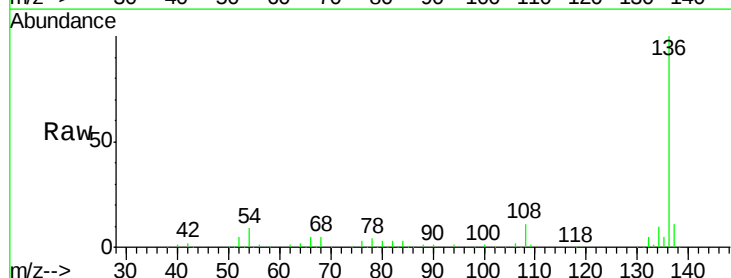
Ion Ratio Lower Upper

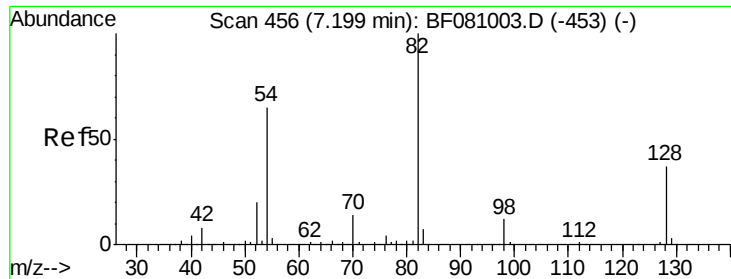
136 100

137 10.5 8.2 12.2

54 9.3 7.7 11.5

68 4.9 3.4 5.2





#23

Nitrobenzene-d5

Concen: 18.97 ng

RT: 7.05 min Scan# 465

Delta R.T. -0.01 min

Lab File: BF081294.D

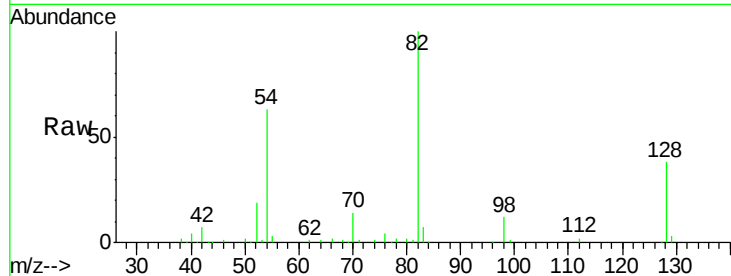
Acq: 30 Aug 2015 3:04

Instrument :

BNA_F

ClientSampleId :

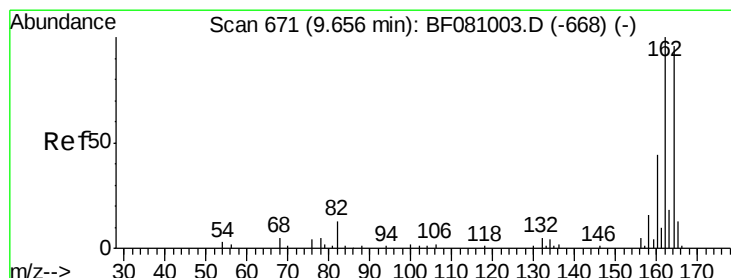
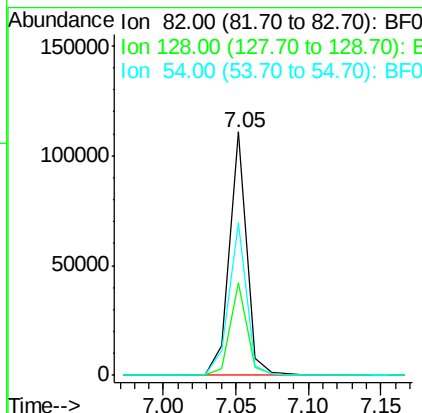
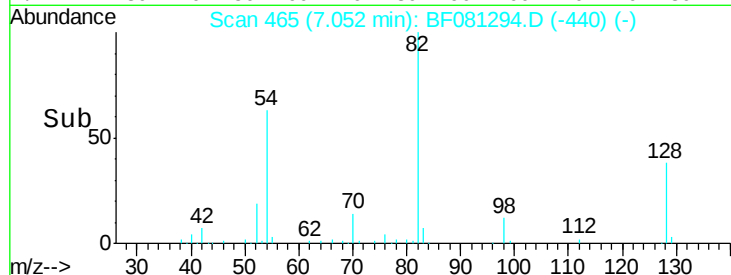
SB5(3-4)DL



Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.8	28.6	42.8
54	62.8	55.1	82.7

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#38

Acenaphthene-d10

Concen: 20.00 ng

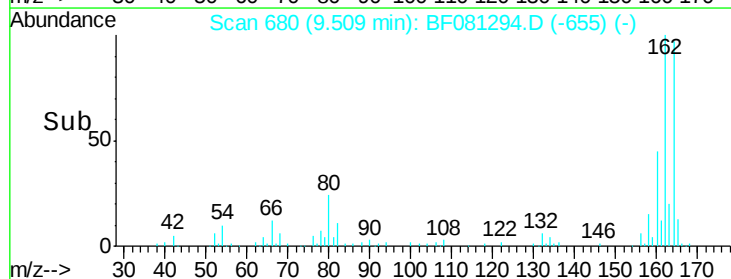
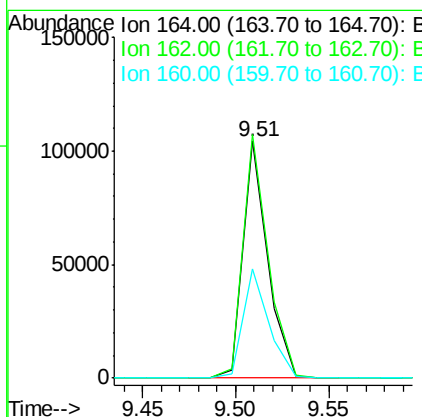
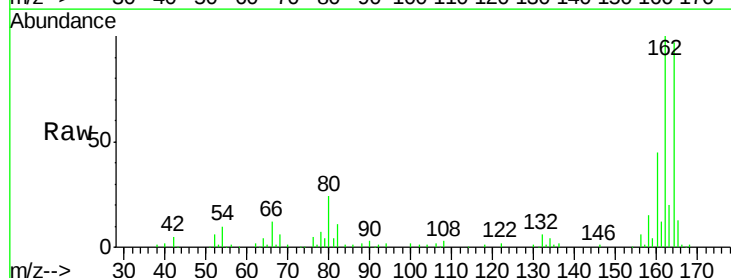
RT: 9.51 min Scan# 680

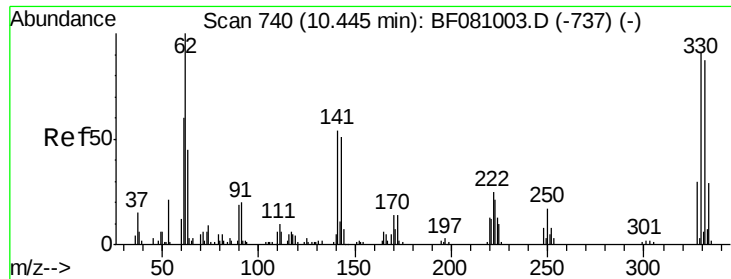
Delta R.T. -0.01 min

Lab File: BF081294.D

Acq: 30 Aug 2015 3:04

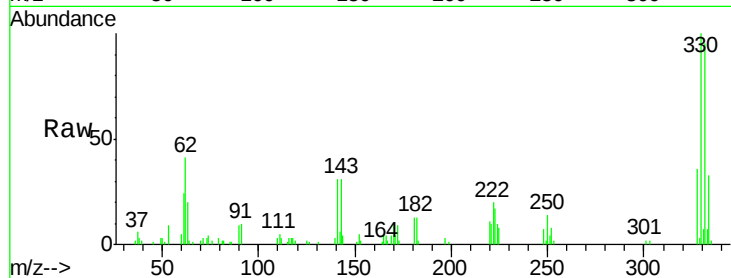
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	83.8	125.8
160	46.0	39.8	59.8





#41
 2,4,6-Tribromophenol
 Concen: 27.06 ng
 RT: 10.30 min Scan# 749
 Delta R.T. -0.01 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

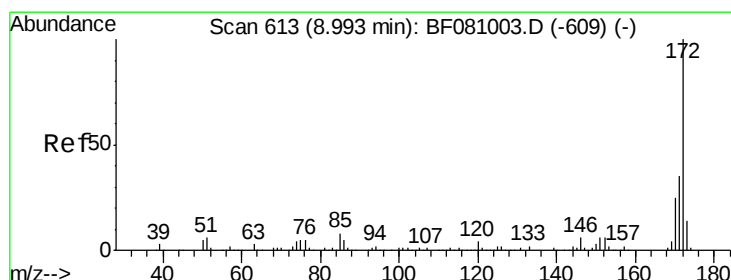
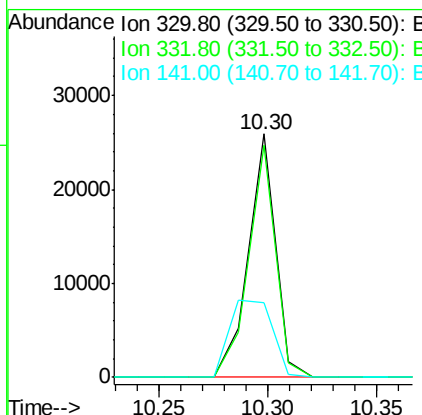
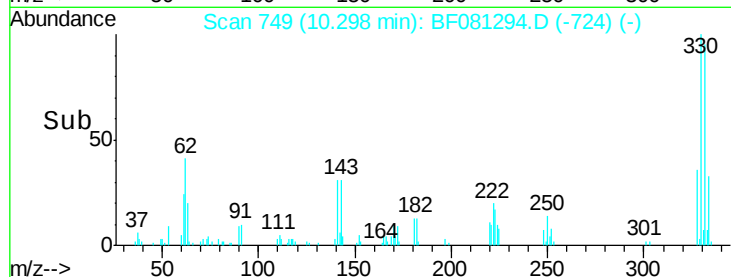
Instrument :
 BNA_F
 ClientSampleId :
 SB5(3-4)DL



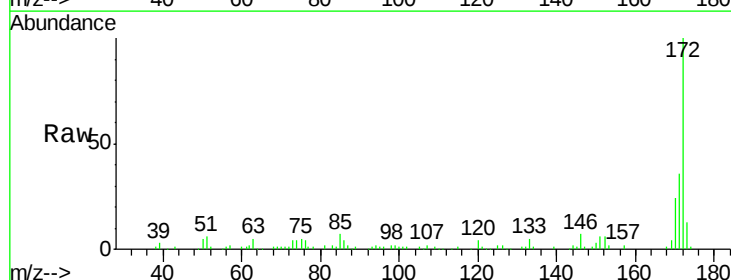
Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.8	77.3	115.9
141	50.7	44.9	67.3

Manual Integrations
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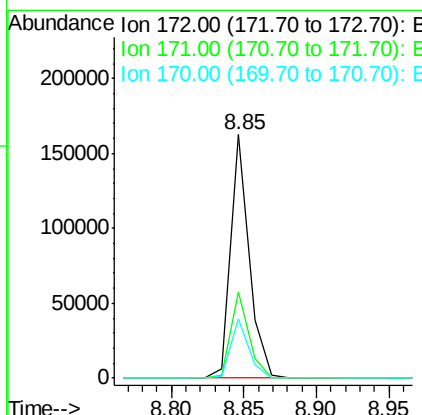
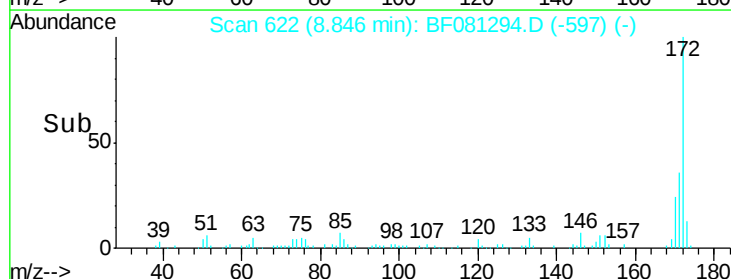
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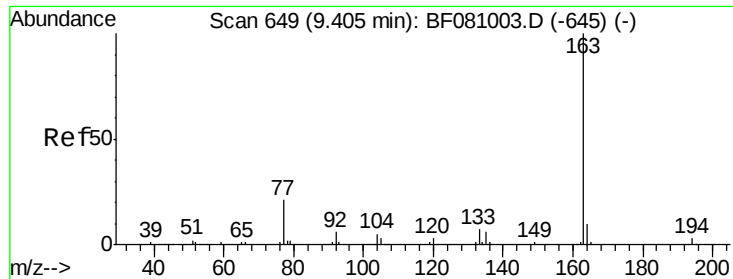


#44
 2-Fluorobiphenyl
 Concen: 19.70 ng
 RT: 8.85 min Scan# 622
 Delta R.T. -0.01 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04



Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.9	43.3
170	24.1	19.4	29.2





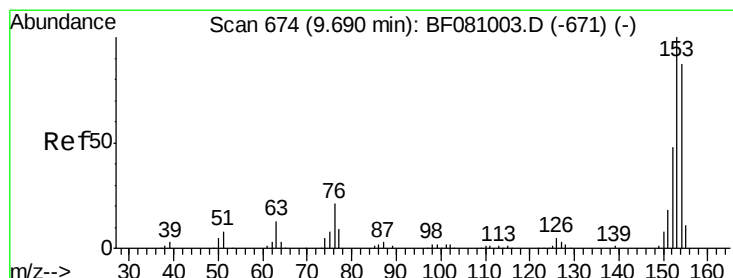
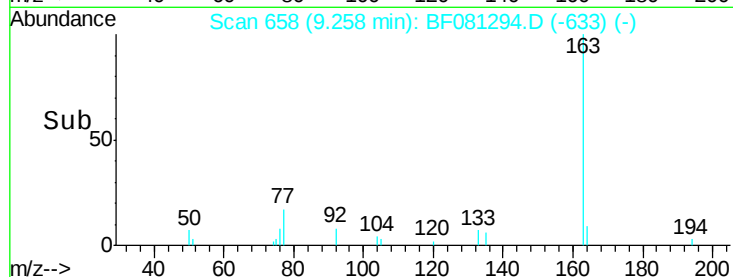
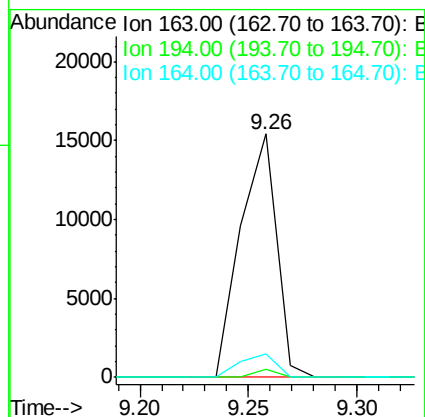
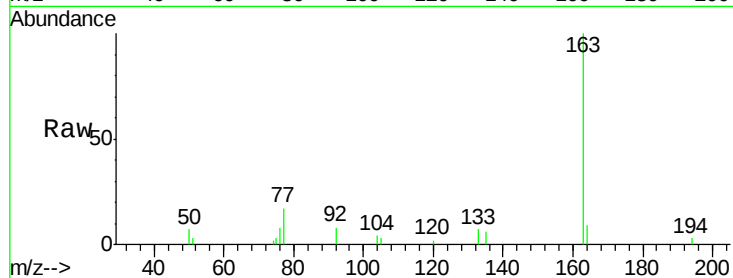
#49
Dimethylphthalate
Concen: 2.24 ng
RT: 9.26 min Scan# 658
Delta R.T. -0.01 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Instrument :
BNA_F
ClientSampleId :
SB5(3-4)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.1	2.5	3.7
164	9.5	8.1	12.1

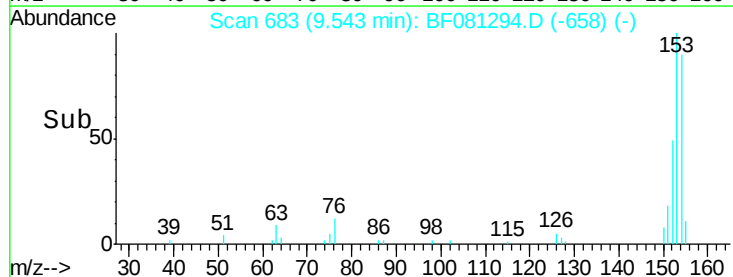
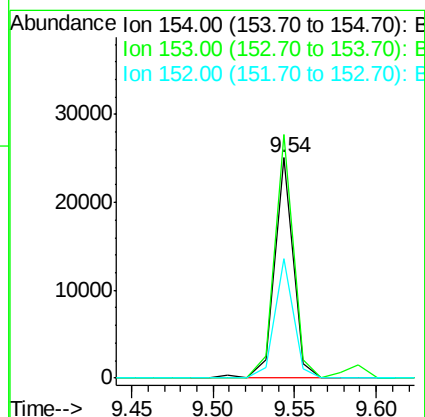
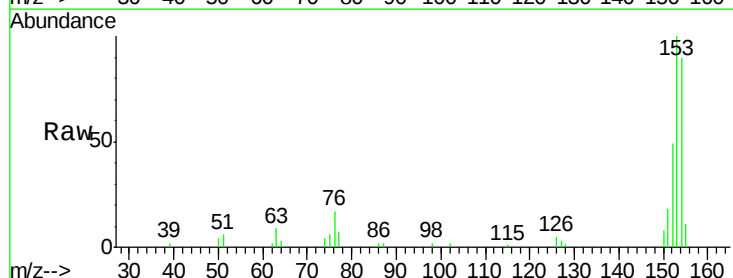
Manual Integrations
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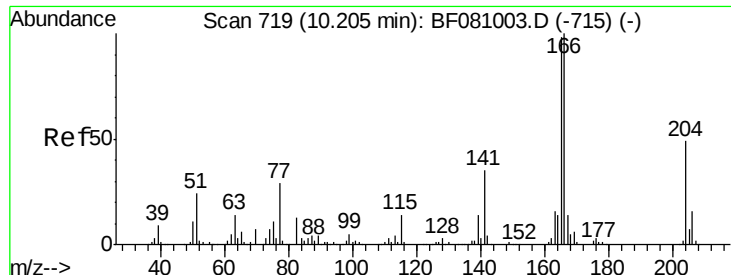
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#51
Acenaphthene
Concen: 2.76 ng
RT: 9.54 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	110.5	91.4	137.2
152	54.3	43.7	65.5





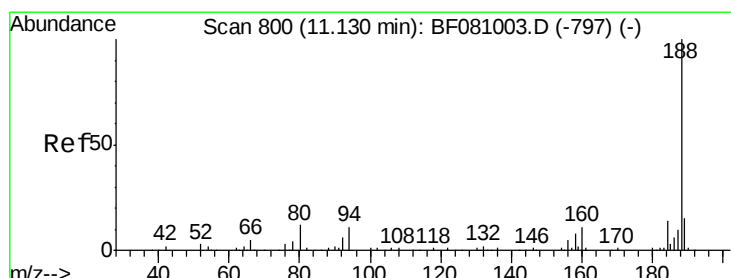
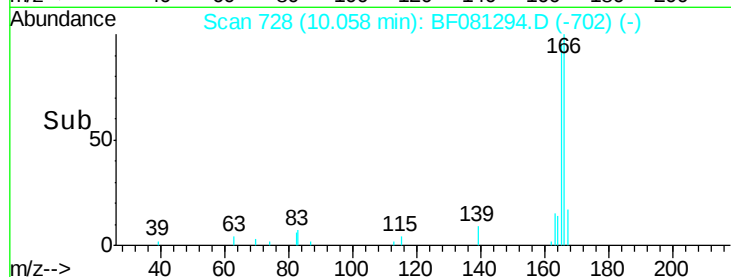
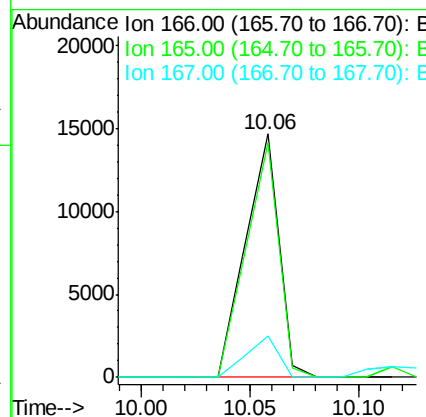
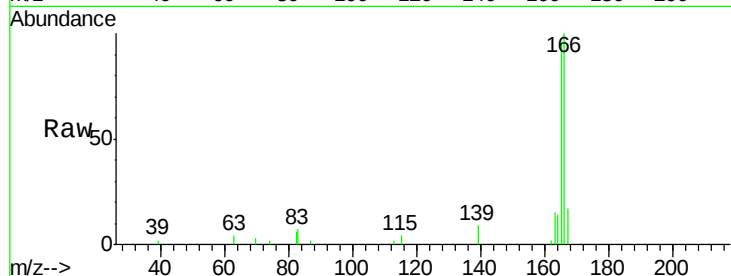
#57
Fluorene
 Concen: 2.08 ng
 RT: 10.06 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

Instrument :
 BNA_F
 ClientSampleId :
 SB5(3-4)DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	15564		
165	96.1	75.8	113.8	
167	17.0	11.3	16.9#	

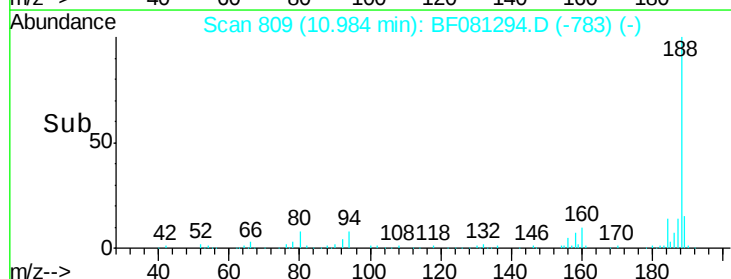
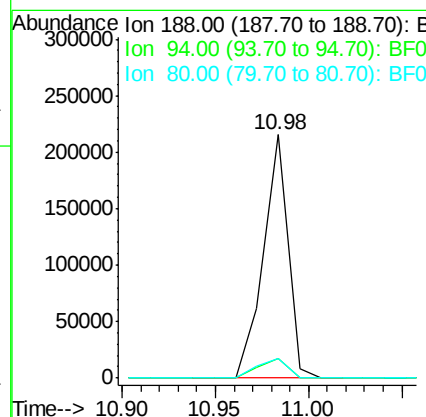
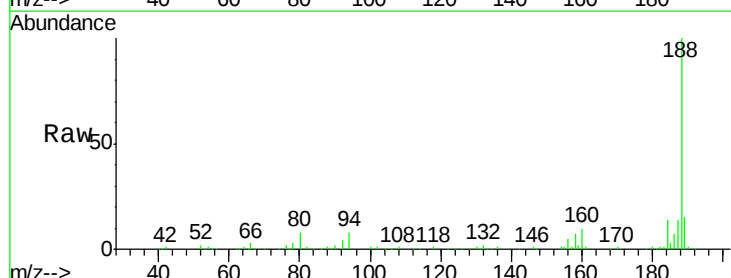
Manual Integrations
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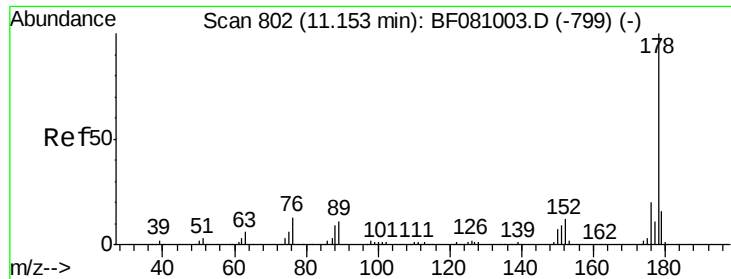
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.98 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	196170		
94	7.9	8.2	12.2#	
80	8.3	9.5	14.3#	





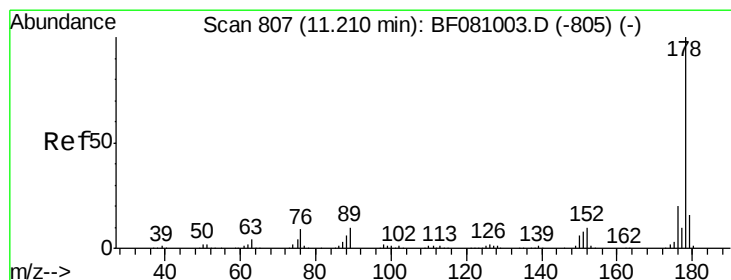
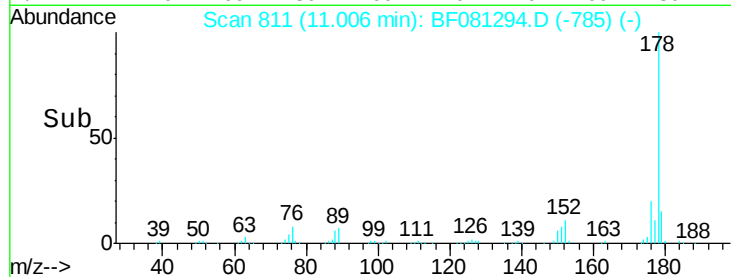
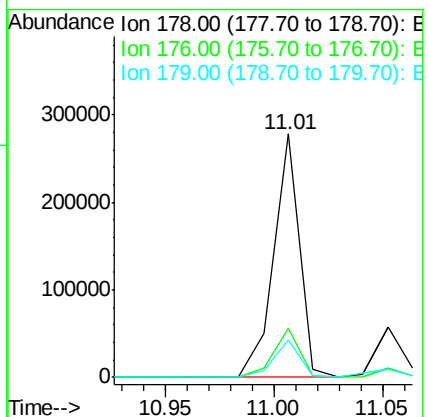
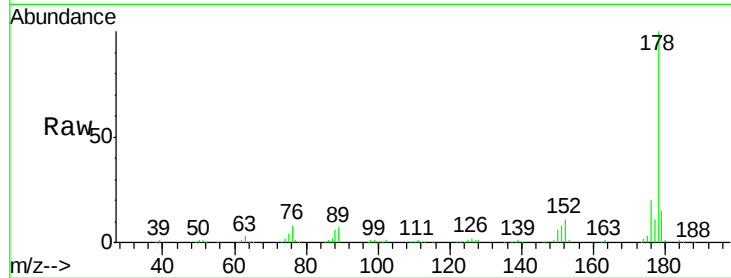
#70
Phenanthrene
Concen: 20.01 ng
RT: 11.01 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Instrument :
BNA_F
ClientSampleId :
SB5(3-4)DL

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	232594		
176	20.2	15.7	23.5	
179	15.3	12.2	18.2	

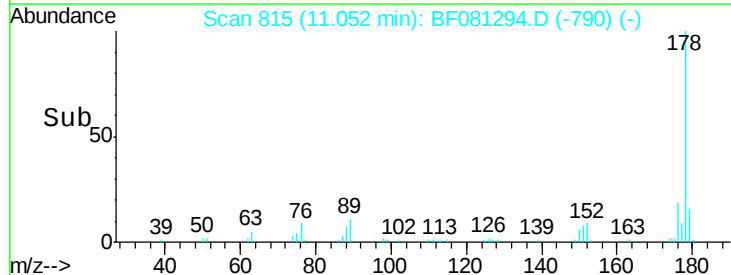
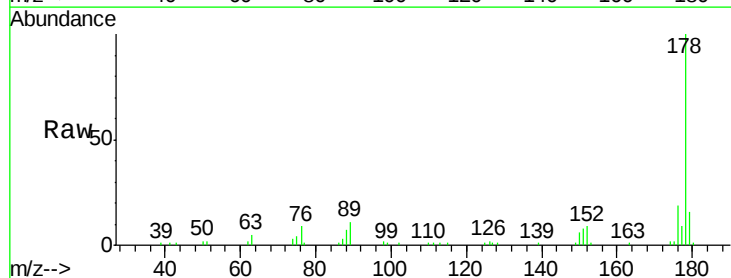
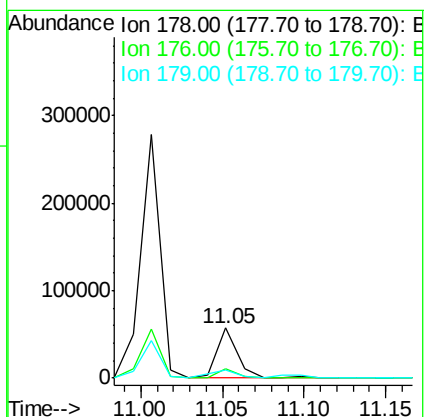
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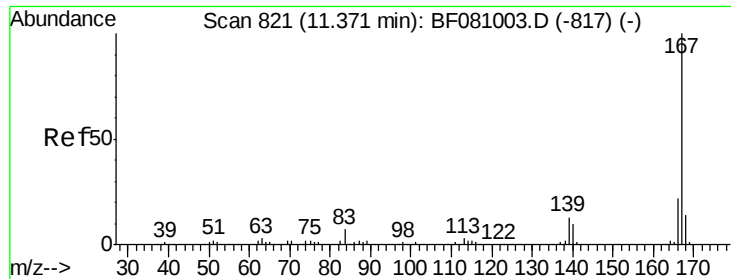
MMDadoda
8/31/2015 1:59:33 PM



#71
Anthracene
Concen: 4.51 ng
RT: 11.05 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

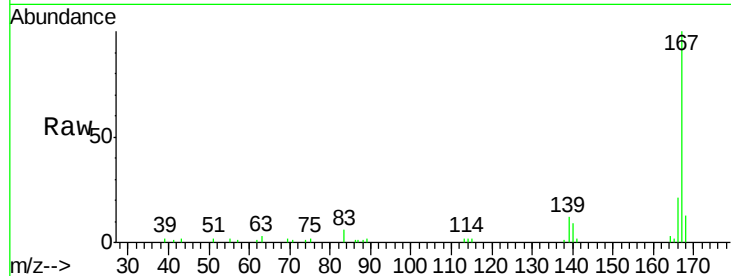
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	50990		
176	19.3	15.7	23.5	
179	15.8	12.7	19.1	





#72
 Carbazole
 Concen: 2.95 ng
 RT: 11.22 min Scan# 830
 Delta R.T. 0.00 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

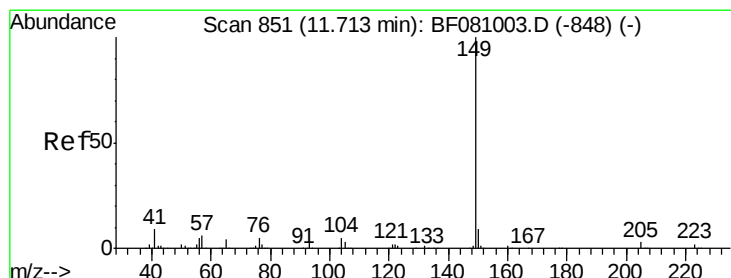
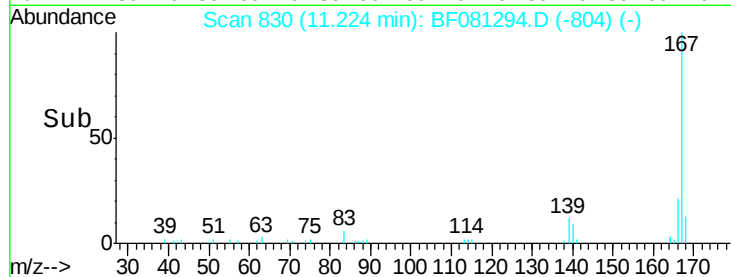
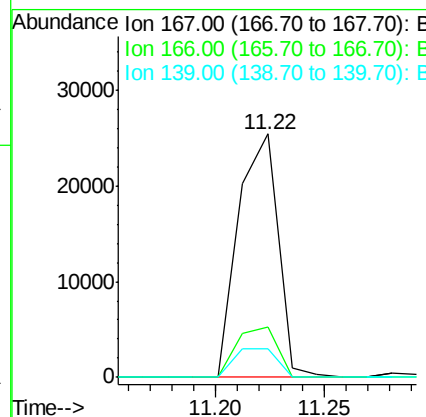
Instrument :
 BNA_F
 ClientSampleId :
 SB5(3-4)DL



Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.4	26.0
139	11.8	10.6	16.0

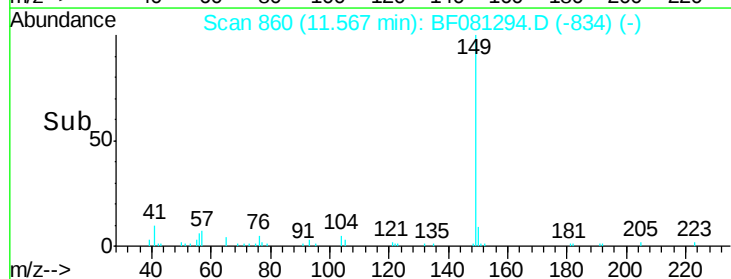
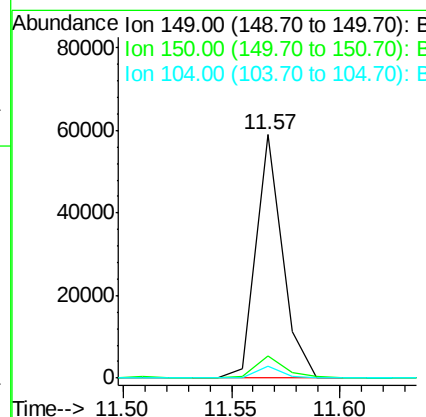
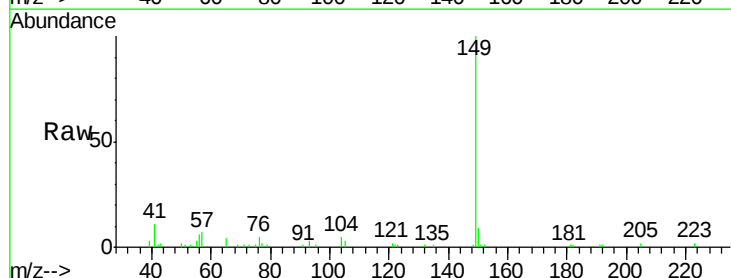
Manual Integrations
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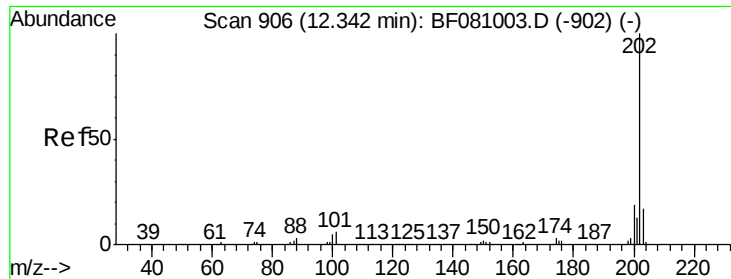
MMDadoda
 8/31/2015 1:59:33 PM



#73
 Di-n-butylphthalate
 Concen: 3.77 ng
 RT: 11.57 min Scan# 860
 Delta R.T. 0.00 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.1	10.7
104	5.0	3.9	5.9





#74

Fluoranthene

Concen: 27.60 ng

RT: 12.18 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF081294.D

Acq: 30 Aug 2015 3:04

Instrument :

BNA_F

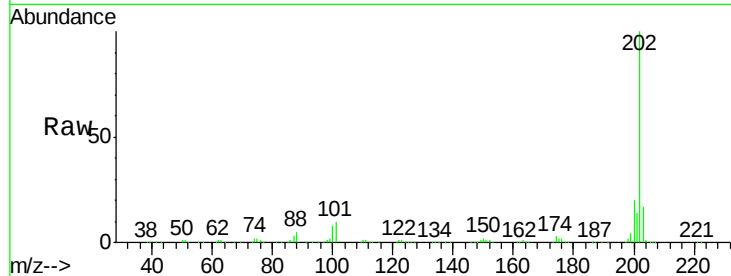
ClientSampleId :

SB5(3-4)DL

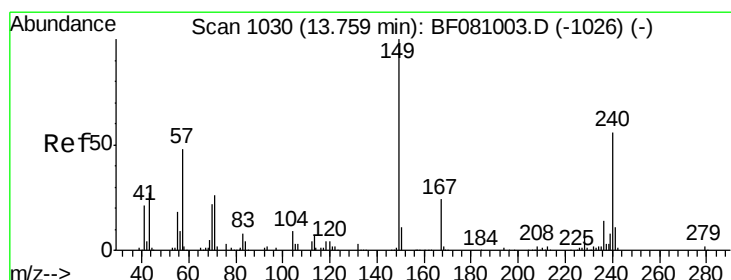
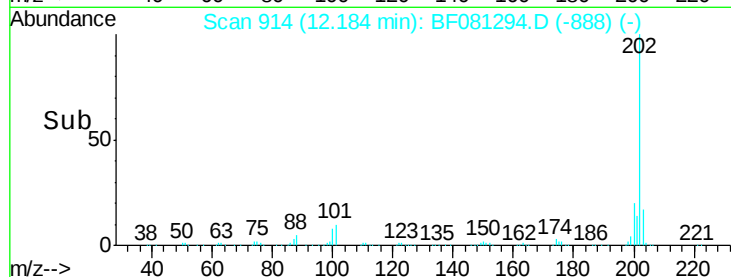
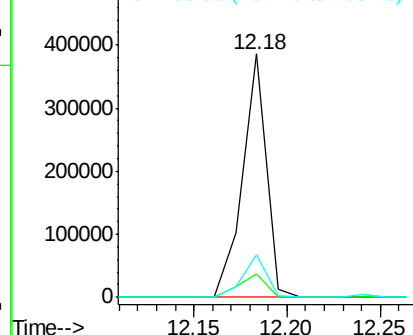
Tgt Ion:	202	Resp:	346306
Ion Ratio	Lower	Upper	
202	100		
101	9.8	0.0	24.8
203	17.4	0.0	36.9

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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



#75

Chrysene-d12

Concen: 20.00 ng

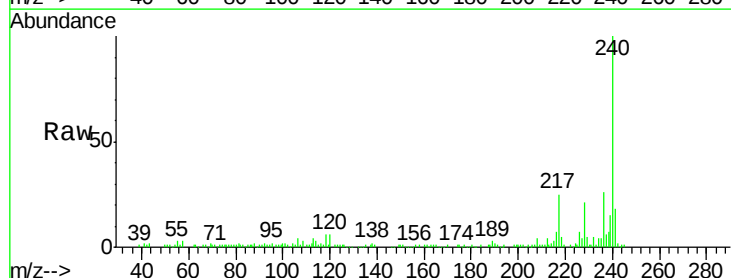
RT: 13.60 min Scan# 1038

Delta R.T. 0.00 min

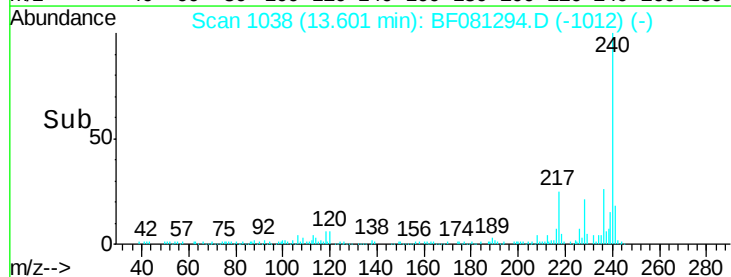
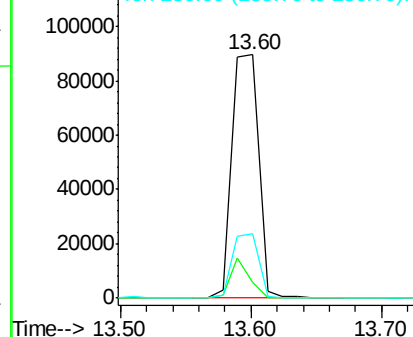
Lab File: BF081294.D

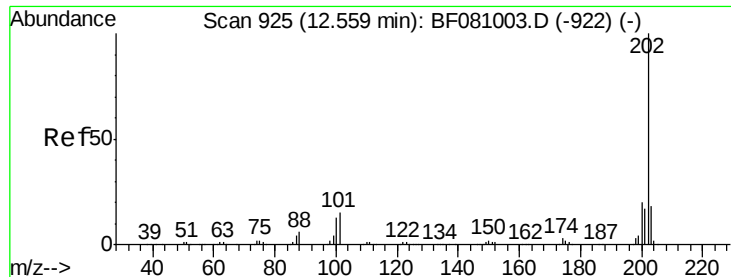
Acq: 30 Aug 2015 3:04

Tgt Ion:	240	Resp:	127284
Ion Ratio	Lower	Upper	
240	100		
120	6.5	5.6	8.4
236	26.3	20.6	30.8



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

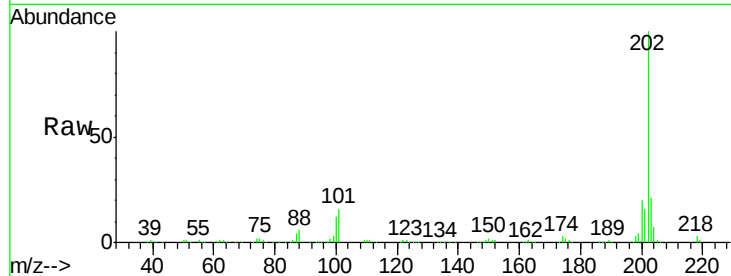
Concen: 25.64 ng m
RT: 12.40 min Scan# 933
Delta R.T. -0.01 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Instrument :
BNA_F
ClientSampleId :
SB5(3-4)DL

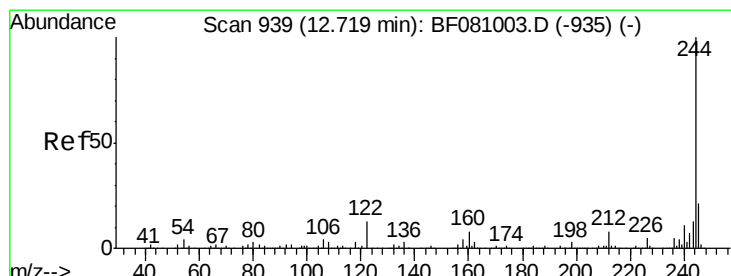
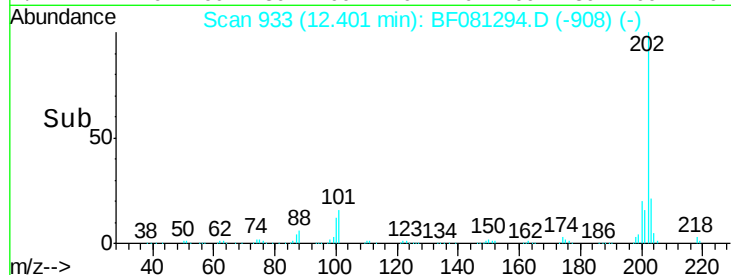
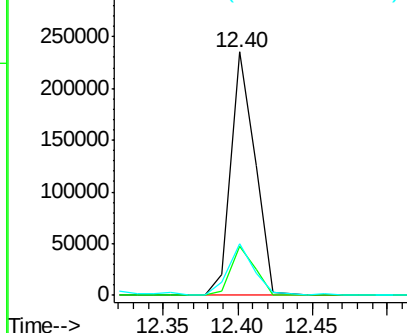
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.2	16.6	24.8
203	21.4	14.1	21.1

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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

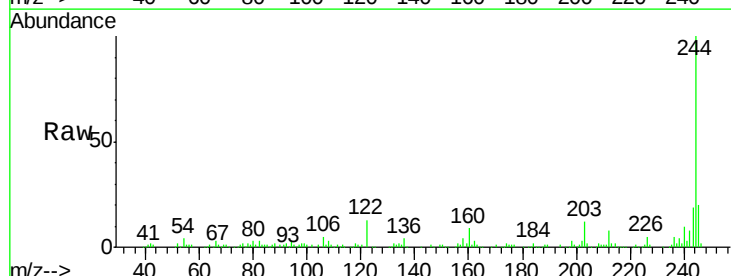


#78

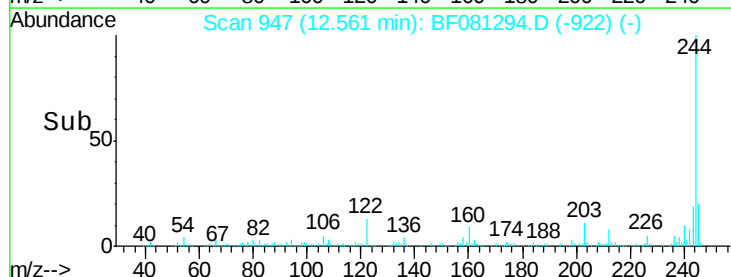
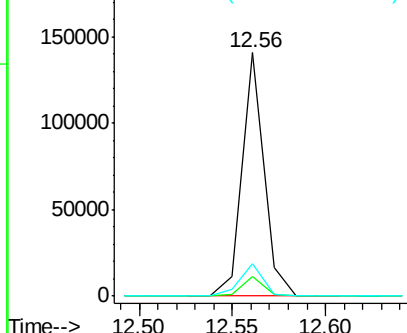
Terphenyl-d14

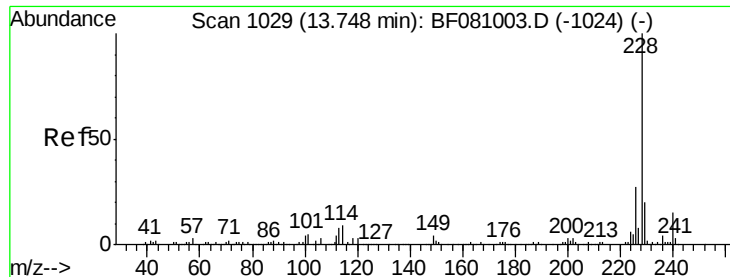
Concen: 19.53 ng
RT: 12.56 min Scan# 947
Delta R.T. -0.01 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.2	5.8	8.8
122	13.1	8.2	12.4



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





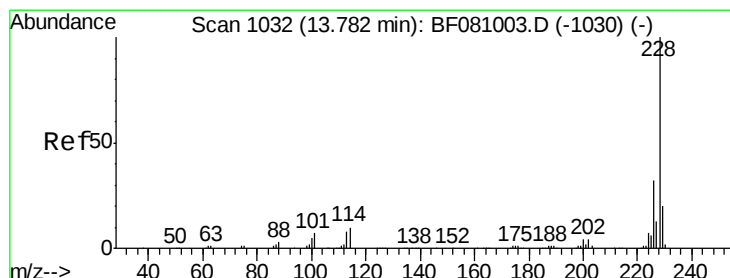
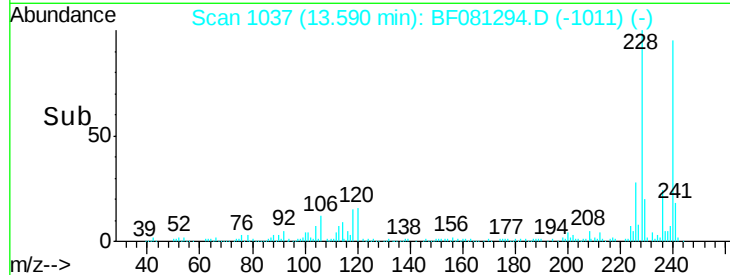
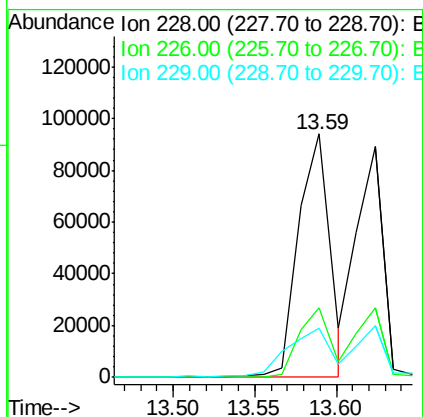
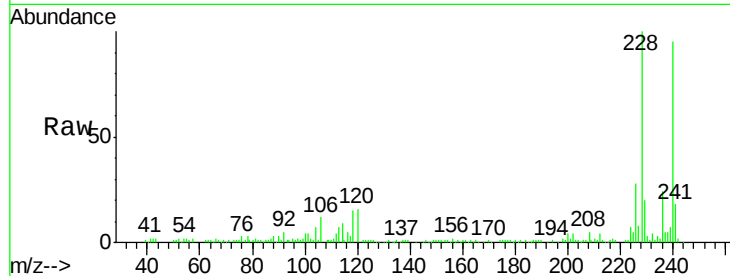
#80
Benzo(a)anthracene
Concen: 14.90 ng
RT: 13.59 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Instrument :
BNA_F
ClientSampleId :
SB5(3-4)DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.3	33.5
229	20.2	15.9	23.9

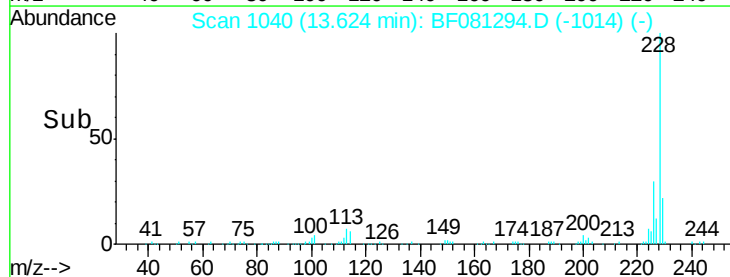
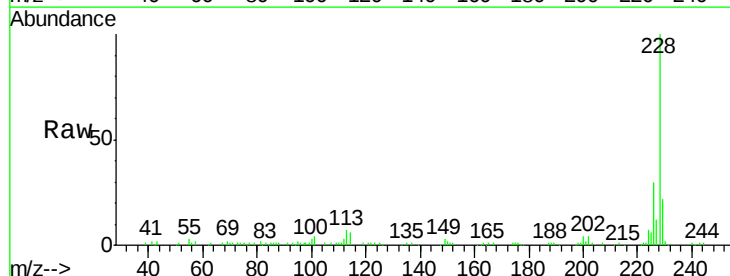
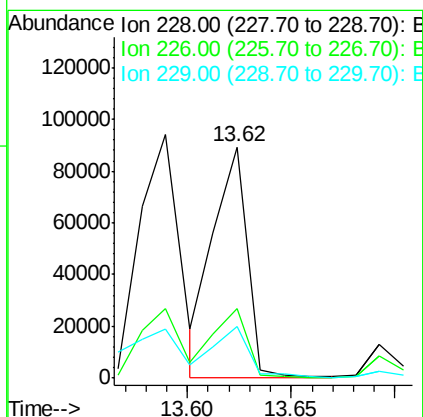
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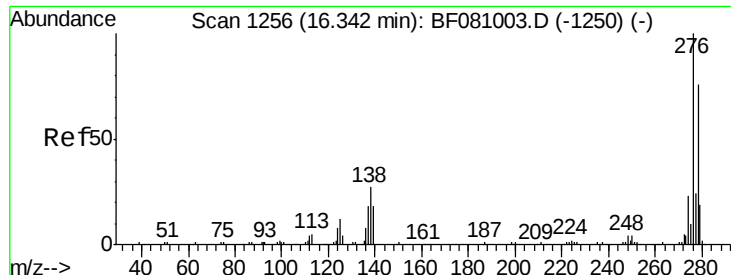
MMDadoda
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#82
Chrysene
Concen: 13.47 ng m
RT: 13.62 min Scan# 1040
Delta R.T. 0.00 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

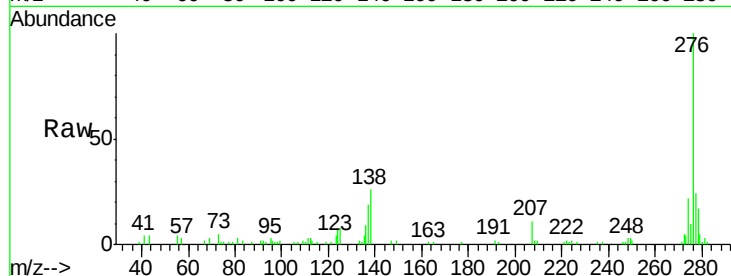
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.4	36.6
229	22.3	16.0	24.0





#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.84 ng
 RT: 16.06 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

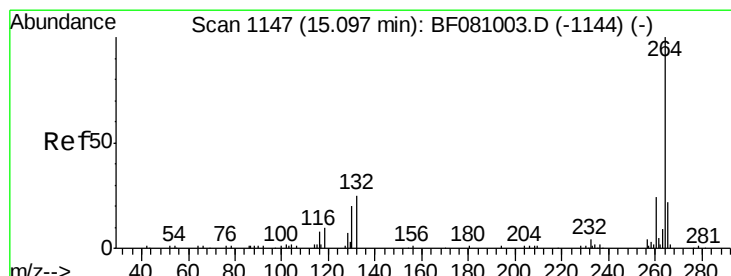
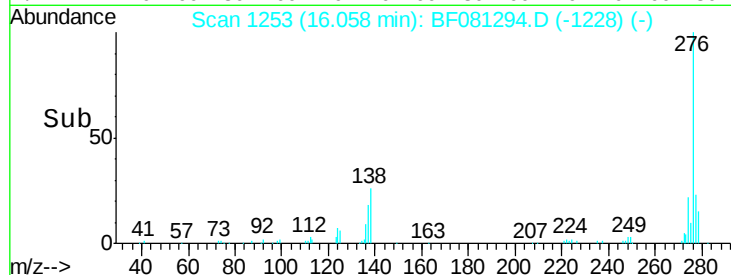
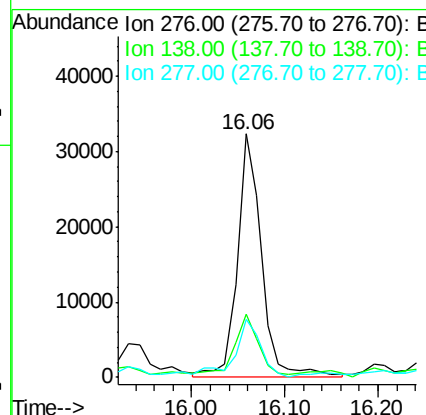
Instrument :
 BNA_F
 ClientSampleId :
 SB5(3-4)DL



Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.2	18.6	28.0
277	27.8	19.8	29.8

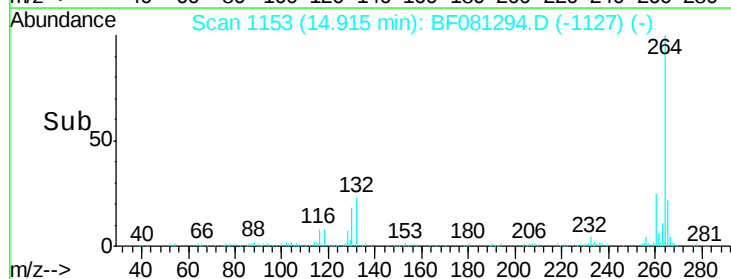
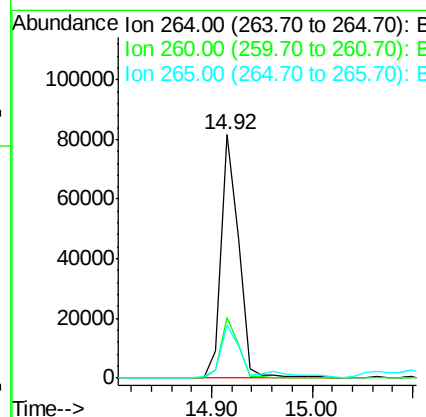
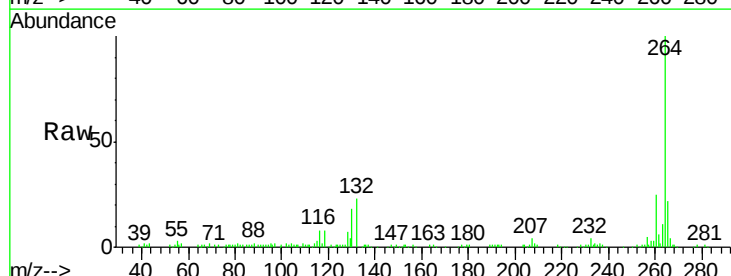
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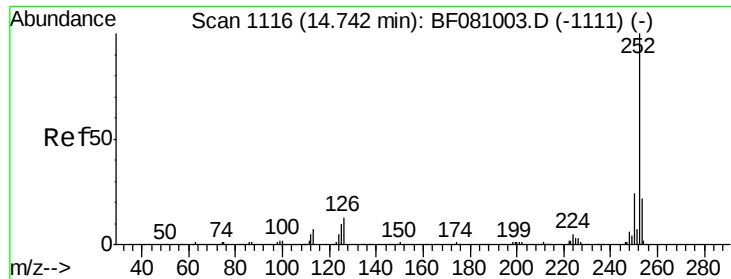
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.92 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.6	29.4
265	22.0	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 20.39 ng m

RT: 14.58 min Scan# 1124

Delta R.T. 0.00 min

Lab File: BF081294.D

Acq: 30 Aug 2015 3:04

Instrument :

BNA_F

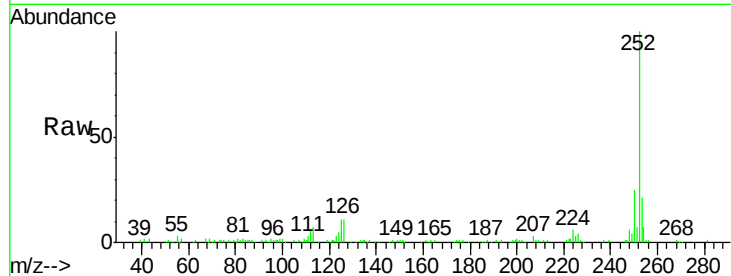
ClientSampleId :

SB5(3-4)DL

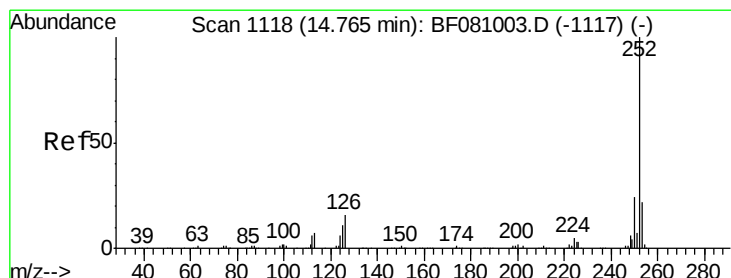
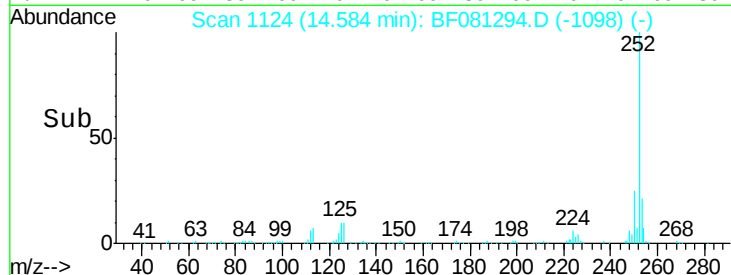
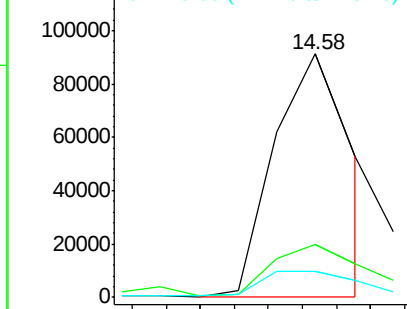
Tgt Ion:	252	Resp:	143259
Ion Ratio	Lower	Upper	
252	100		
253	21.5	17.1	25.7
125	10.7	8.0	12.0

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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



#88

Benzo(k)fluoranthene

Concen: 3.00 ng m

RT: 14.60 min Scan# 1125

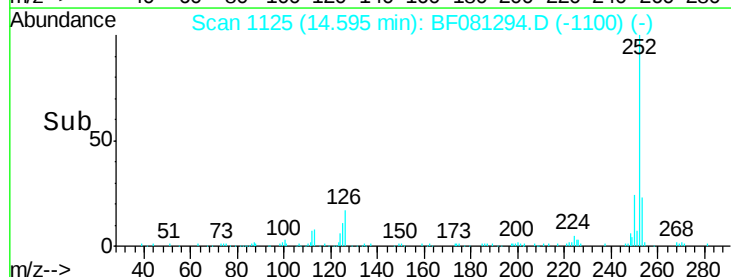
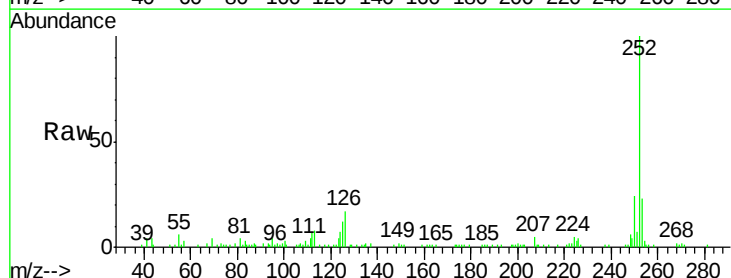
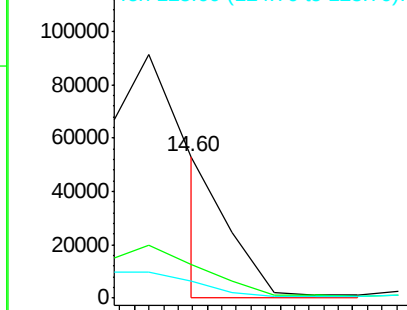
Delta R.T. -0.01 min

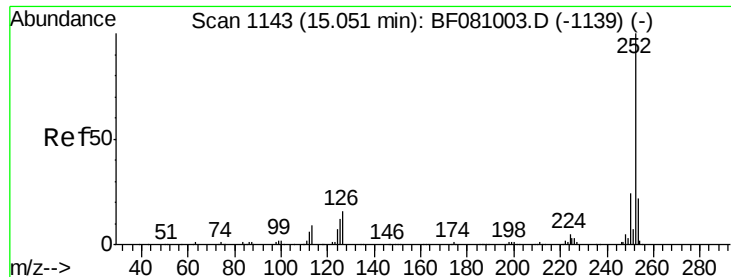
Lab File: BF081294.D

Acq: 30 Aug 2015 3:04

Tgt Ion:	252	Resp:	19673
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.6	26.4
125	12.2	10.3	15.5

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





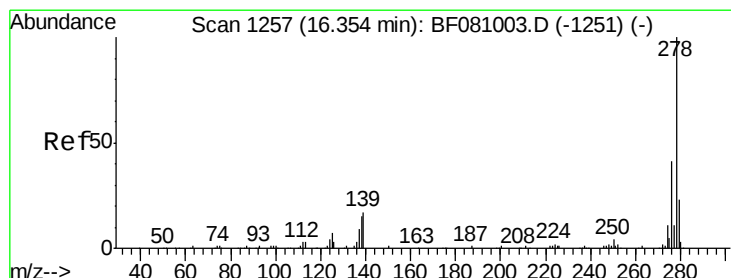
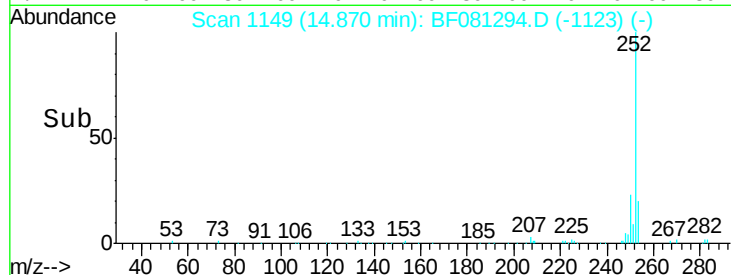
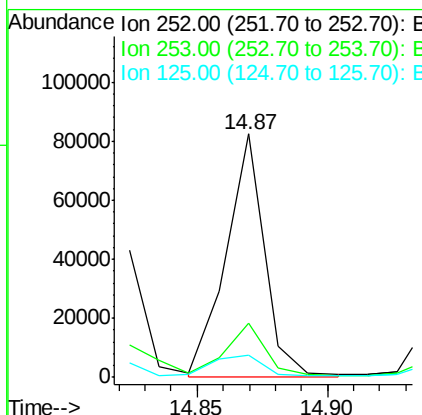
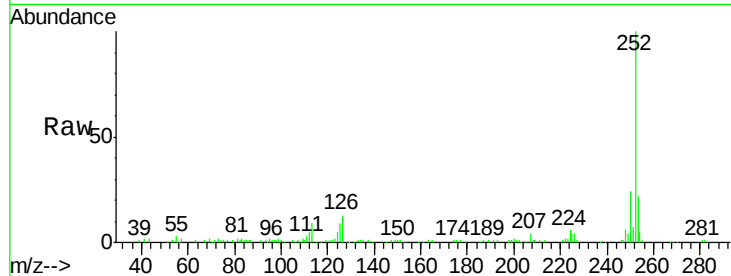
#89
Benzo(a)pyrene
Concen: 13.85 ng
RT: 14.87 min Scan# 1149
Delta R.T. 0.00 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Instrument :
BNA_F
ClientSampleId :
SB5(3-4)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	16.6	25.0
125	9.2	7.8	11.8

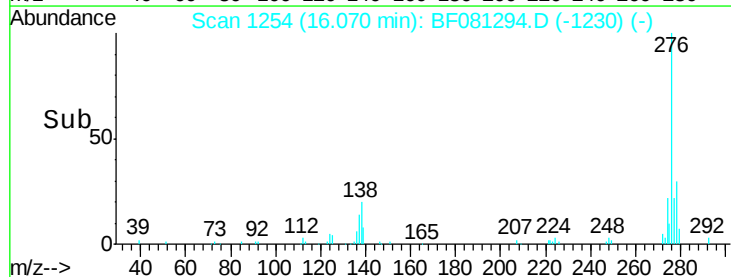
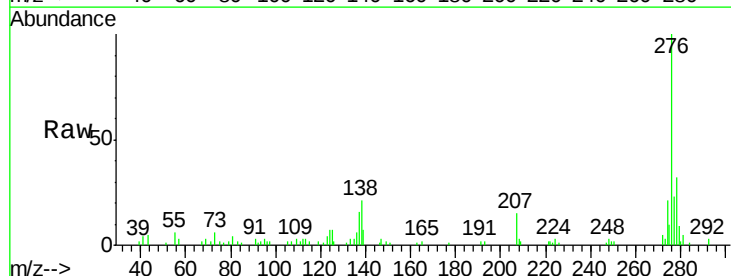
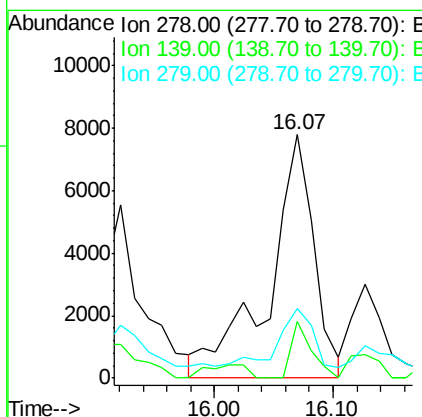
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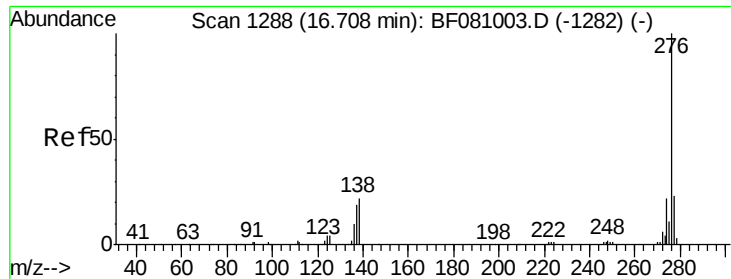
MMDadoda
8/31/2015 1:59:33 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.29 ng
RT: 16.07 min Scan# 1254
Delta R.T. -0.02 min
Lab File: BF081294.D
Acq: 30 Aug 2015 3:04

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.1	10.8	16.2#
279	28.5	19.0	28.6





#91
 Benzo(g,h,i)perylene
 Concen: 10.51 ng
 RT: 16.40 min Scan# 1283
 Delta R.T. -0.01 min
 Lab File: BF081294.D
 Acq: 30 Aug 2015 3:04

Instrument :
 BNA_F
 ClientSampleId :
 SB5(3-4)DL

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.2	27.2
138	25.0	13.7	20.5

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