

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF093015\
 Data File : BF081923.D
 Acq On : 1 Oct 2015 1:54
 Operator : UM/IZ
 Sample : G3846-13
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 013-TB-11(0-4)

Manual Integrations
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 10/1/2015 2:24:17 PM

Quant Time: Oct 01 08:50:39 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 28 18:10:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	120669	20.00	ng	-0.03
21) Naphthalene-d8	8.19	136	473516	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	215299	20.00	ng	-0.03
63) Phenanthrene-d10	11.43	188	383707	20.00	ng	-0.03
75) Chrysene-d12	14.08	240	310453	20.00	ng	-0.03
86) Perylene-d12	15.53	264	301980	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	776674	116.84	ng	-0.01
7) Phenol-d6	6.54	99	1034098	123.63	ng	-0.02
23) Nitrobenzene-d5	7.47	82	691071	97.29	ng	-0.02
41) 2,4,6-Tribromophenol	10.74	330	277329	127.19	ng	-0.02
44) 2-Fluorobiphenyl	9.27	172	1060700	81.85	ng	-0.03
78) Terphenyl-d14	13.02	244	863835	91.93	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	9.67	163	335454	22.57	ng	# 97
70) Phenanthrene	11.46	178	174043	8.06	ng	97
71) Anthracene	11.51	178	41305	2.12	ng	95
72) Carbazole	11.67	167	37353	2.12	ng	96
74) Fluoranthene	12.65	202	345747	16.82	ng	87
77) Pyrene	12.88	202	246012	13.26	ng	98
80) Benzo(a)anthracene	14.07	228	137692	8.24	ng	94
82) Chrysene	14.10	228	142612m	7.54	ng	
85) Indeno(1,2,3-cd)pyrene	16.97	276	68356m	5.23	ng	
87) Benzo(b)fluoranthene	15.11	252	170522m	9.89	ng	
88) Benzo(k)fluoranthene	15.12	252	77622m	4.91	ng	
89) Benzo(a)pyrene	15.46	252	103703	6.93	ng	# 87
91) Benzo(g,h,i)perylene	17.40	276	54862	4.27	ng	# 79

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

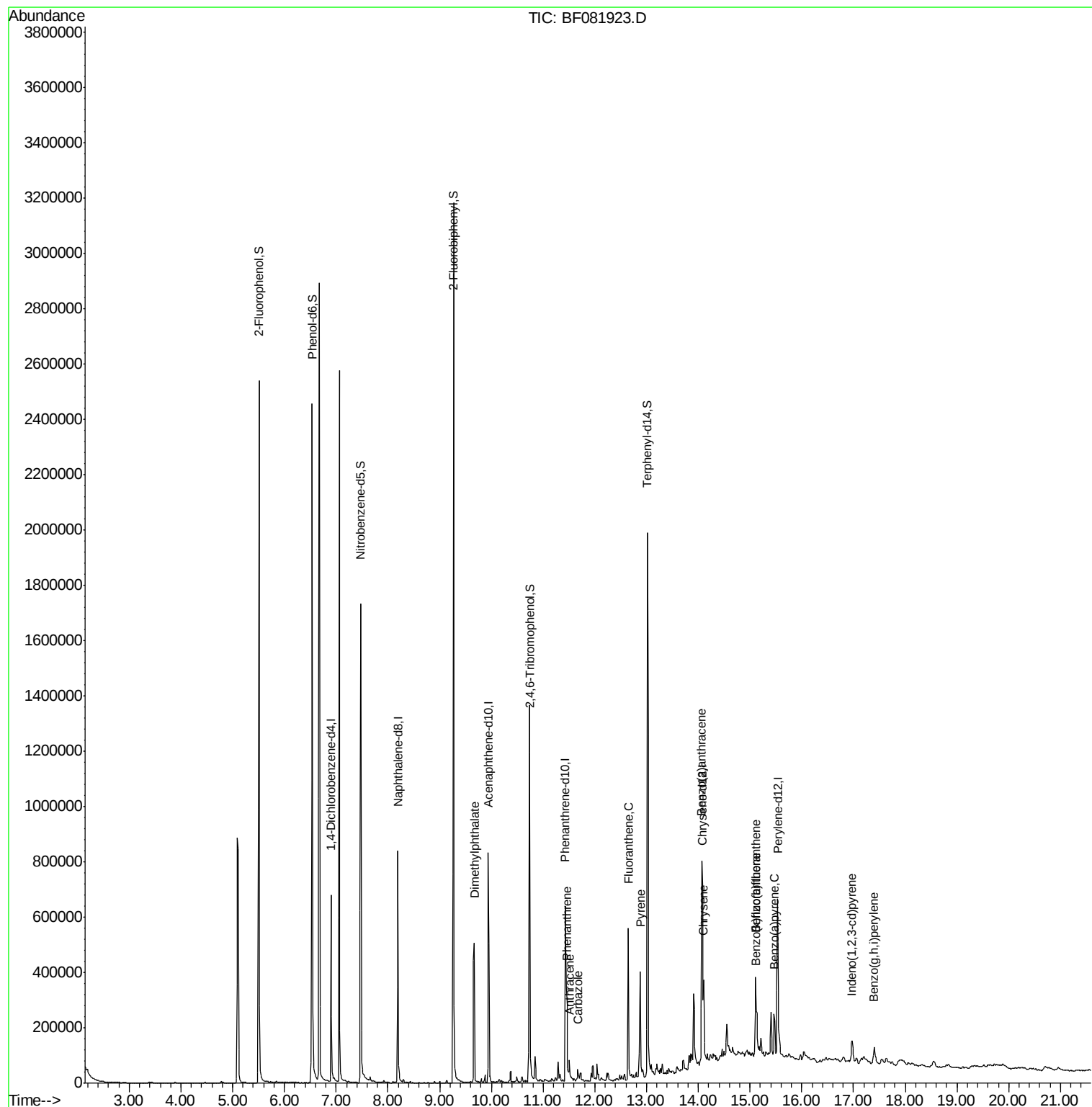
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF093015\
Data File : BF081923.D
Acq On : 1 Oct 2015 1:54
Operator : UM/IZ
Sample : G3846-13
Misc :
ALS Vial : 14 Sample Multiplier: 1

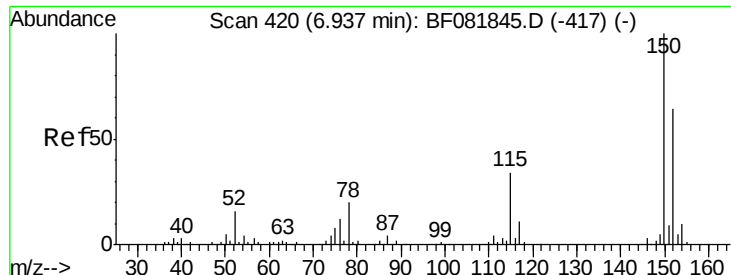
Instrument :
BNA_F
ClientSampleId :
013-TB-11(0-4)

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Quant Time: Oct 01 08:50:39 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 28 18:10:42 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 417

Delta R.T. -0.03 min

Lab File: BF081923.D

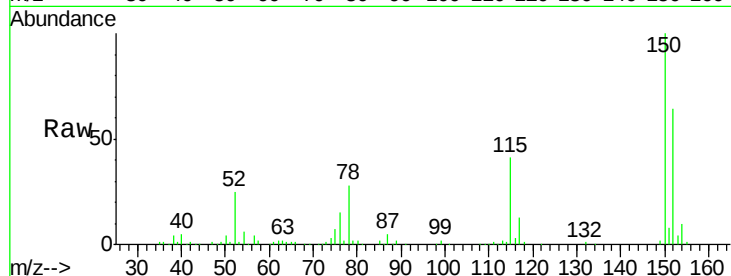
Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

ClientSampleId :

013-TB-11(0-4)



Tgt Ion:152 Resp: 120669

Ion Ratio Lower Upper

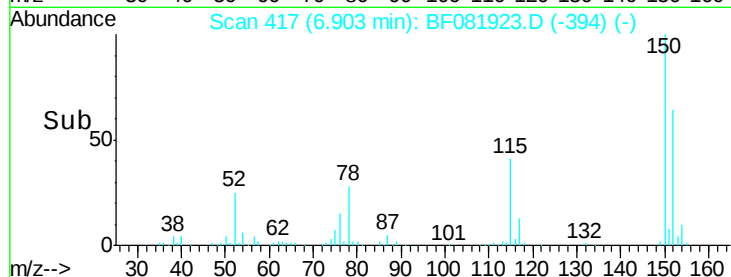
152 100

150 157.0 124.7 187.1

115 64.6 39.0 58.4#

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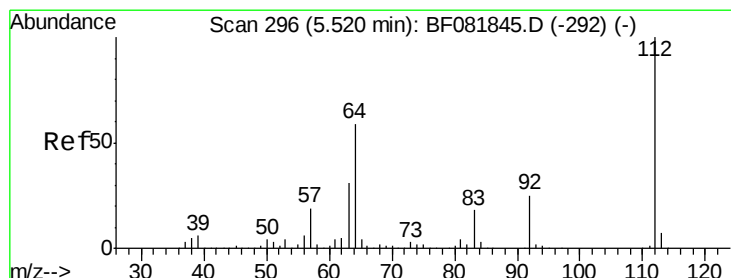
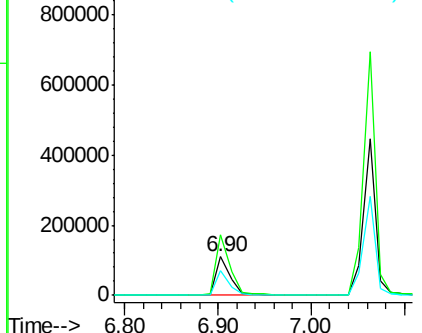
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 116.84 ng

RT: 5.51 min Scan# 295

Delta R.T. -0.01 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

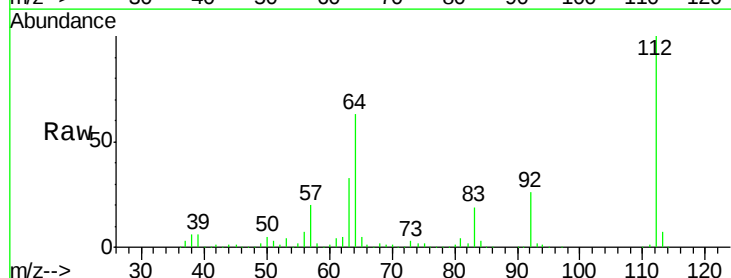
Tgt Ion:112 Resp: 776674

Ion Ratio Lower Upper

112 100

64 63.2 39.7 59.5#

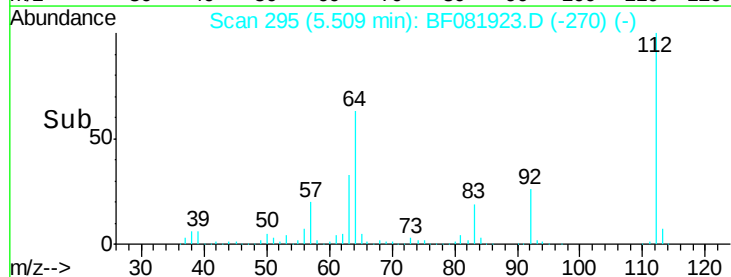
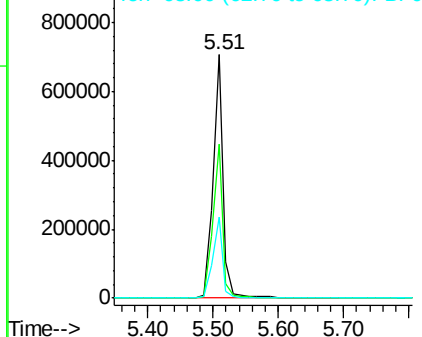
63 33.2 17.4 26.0#

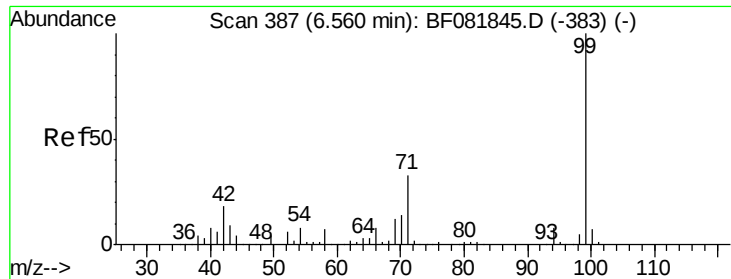


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.63 ng

RT: 6.54 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

ClientSampleId :

013-TB-11(0-4)

Tgt Ion: 99 Resp: 1034098

Ion Ratio Lower Upper

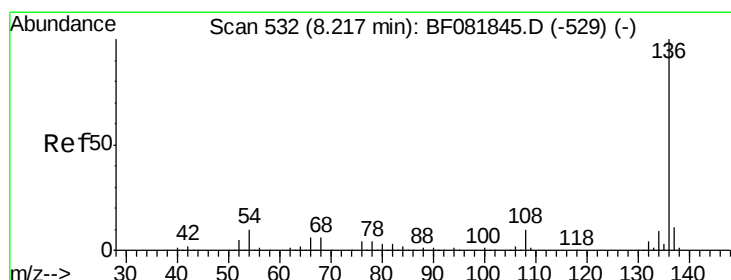
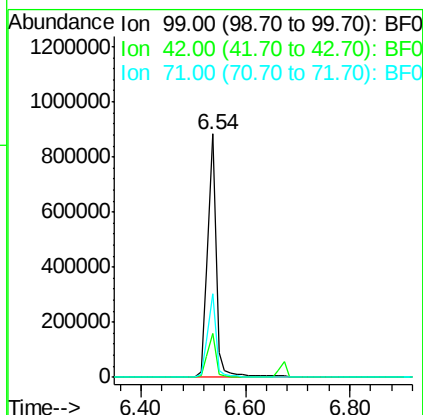
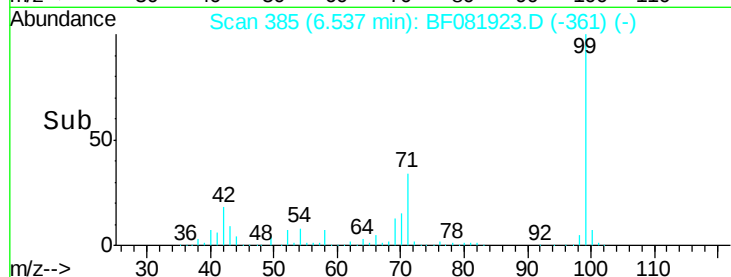
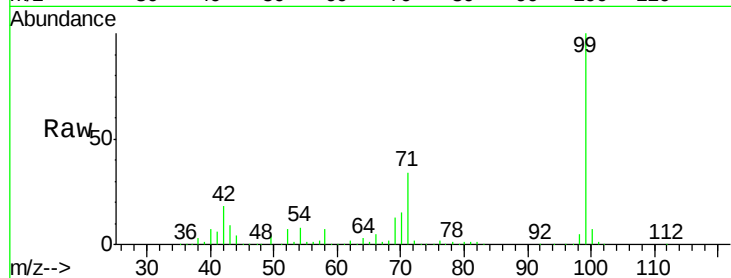
99 100

42 18.0 13.7 20.5

71 34.1 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.19 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Tgt Ion: 136 Resp: 473516

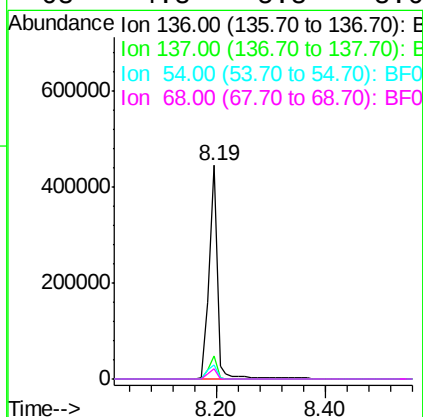
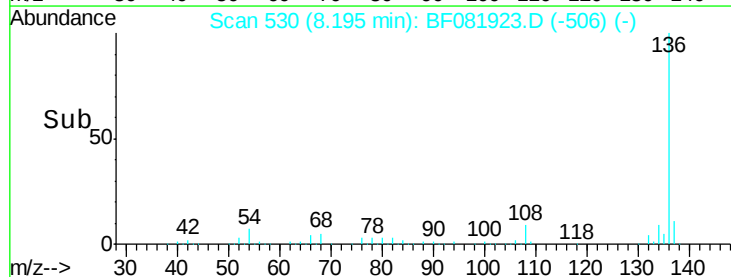
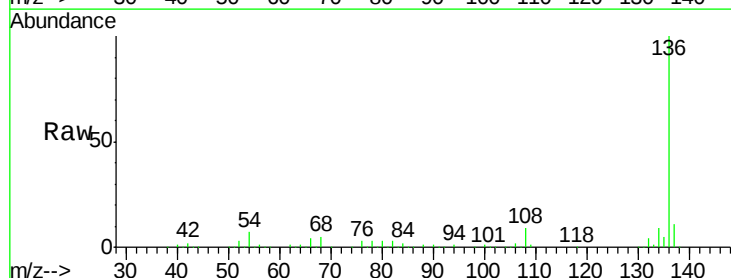
Ion Ratio Lower Upper

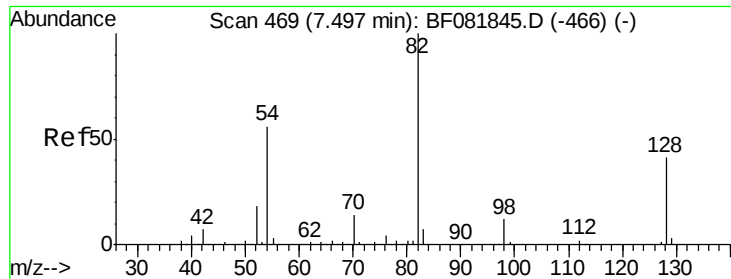
136 100

137 10.7 9.0 13.6

54 6.7 8.2 12.2#

68 4.8 5.8 8.6#





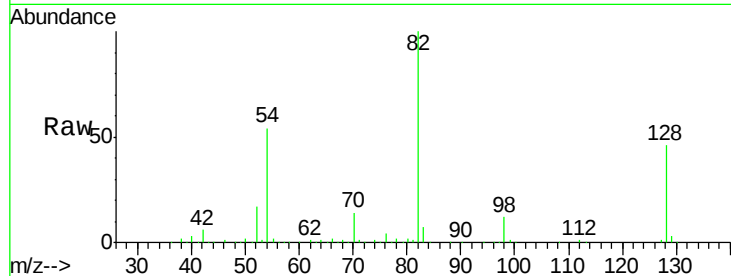
#23
 Nitrobenzene-d5
 Concen: 97.29 ng
 RT: 7.47 min Scan# 467
 Delta R.T. -0.02 min
 Lab File: BF081923.D
 Acq: 1 Oct 2015 1:54

Instrument :
 BNA_F
 ClientSampleId :
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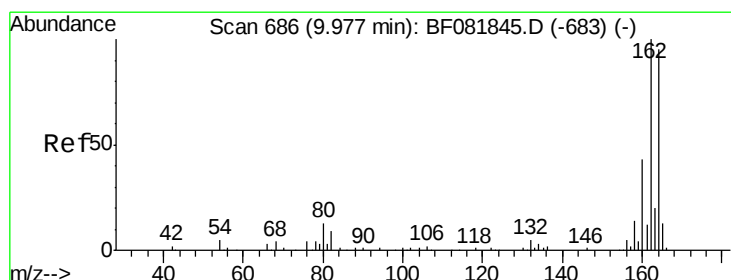
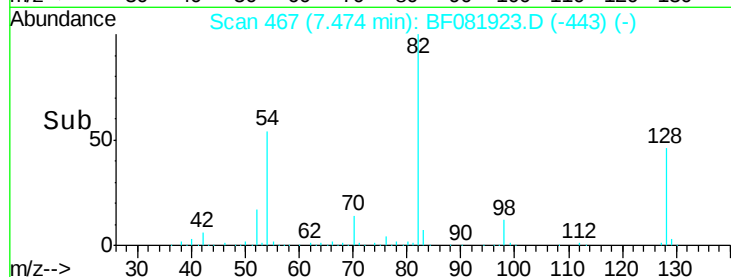
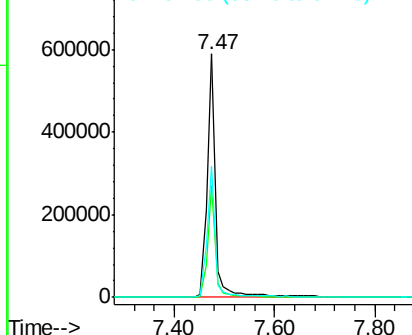
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	691071		
128	46.0	51.0	76.6#	
54	53.8	47.5	71.3	

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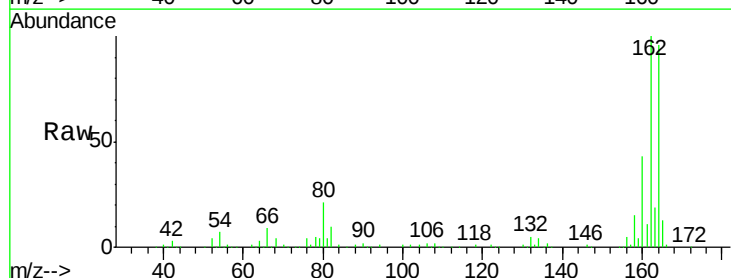


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

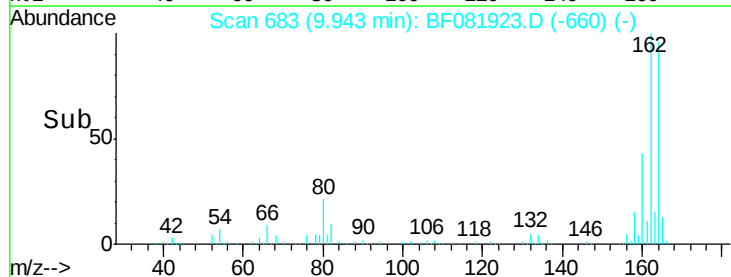
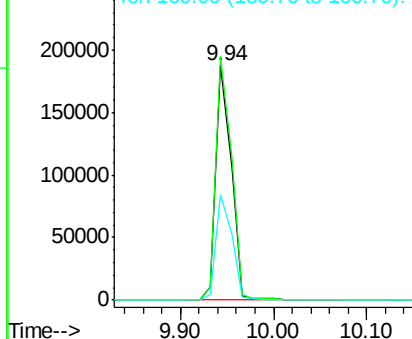


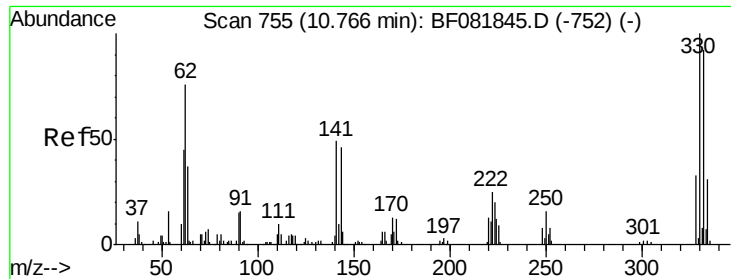
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 683
 Delta R.T. -0.03 min
 Lab File: BF081923.D
 Acq: 1 Oct 2015 1:54

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	215299		
162	103.9	75.2	112.8	
160	44.8	31.5	47.3	



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





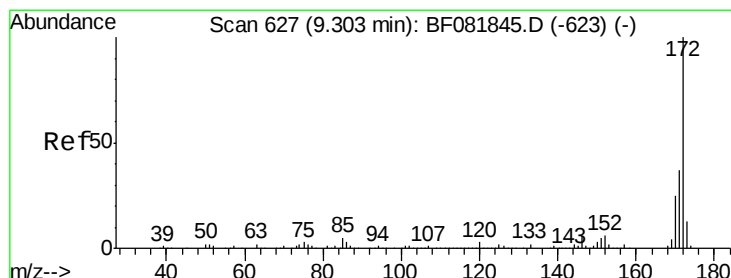
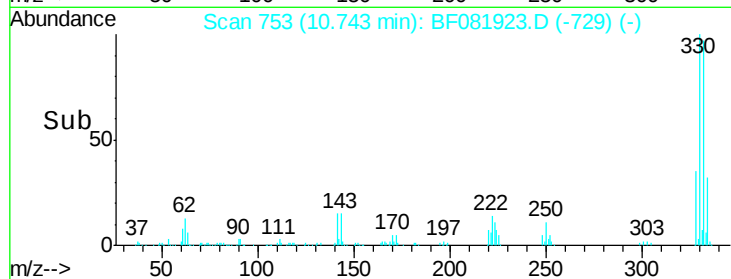
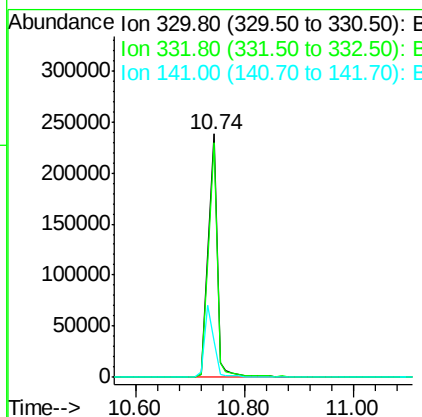
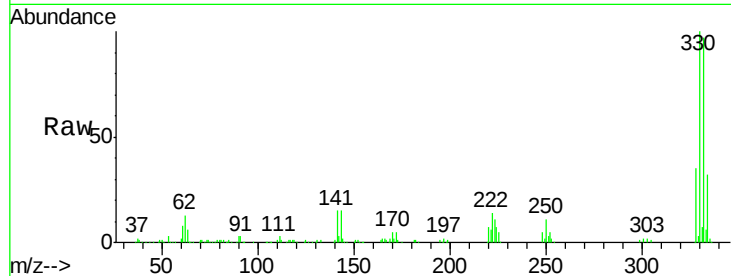
#41
 2,4,6-Tribromophenol
 Concen: 127.19 ng
 RT: 10.74 min Scan# 753
 Delta R.T. -0.02 min
 Lab File: BF081923.D
 Acq: 1 Oct 2015 1:54

Instrument :
 BNA_F
 ClientSampleId :
 013-TB-11(0-4)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	277329		
332	95.7	76.6	114.8	
141	30.1	29.7	44.5	

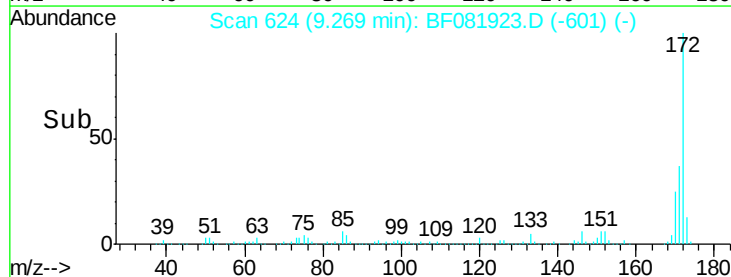
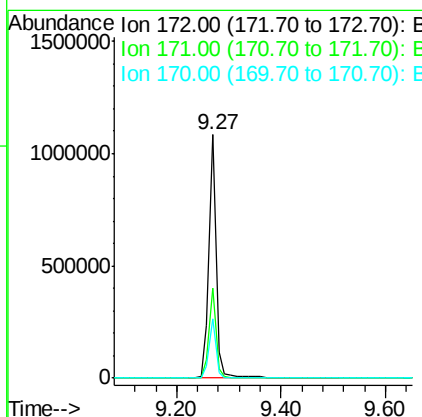
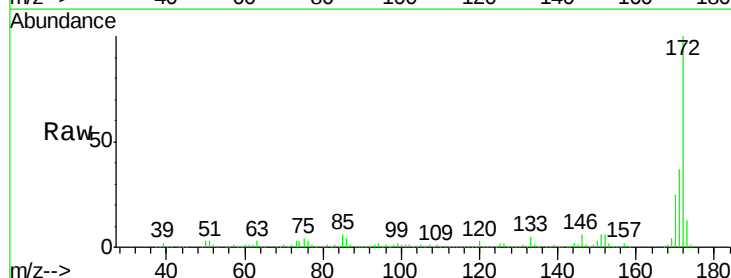
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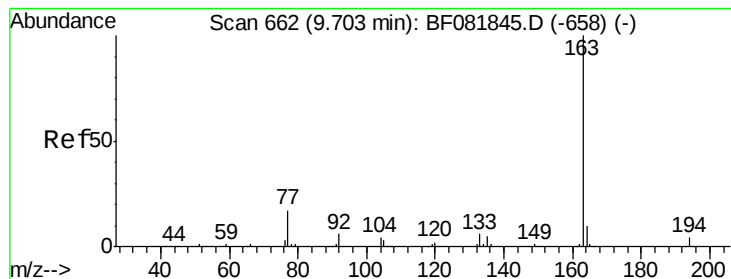
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#44
 2-Fluorobiphenyl
 Concen: 81.85 ng
 RT: 9.27 min Scan# 624
 Delta R.T. -0.03 min
 Lab File: BF081923.D
 Acq: 1 Oct 2015 1:54

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1060700		
171	36.8	26.1	39.1	
170	24.6	17.4	26.2	





#49

Dimethylphthalate

Concen: 22.57 ng

RT: 9.67 min Scan# 659

Delta R.T. -0.03 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

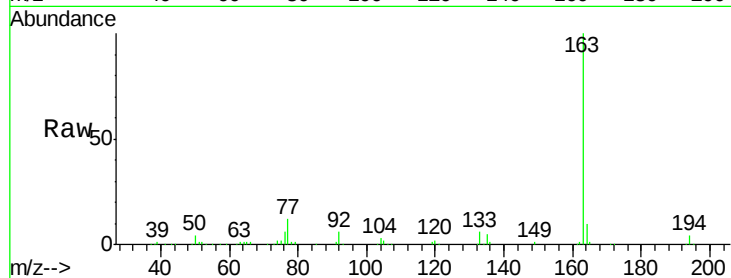
ClientSampleId :

013-TB-11(0-4)

Tgt Ion:	163	Resp:	335454
Ion Ratio		Lower	Upper
163	100		
194	4.1	4.4	6.6#
164	9.6	8.3	12.5

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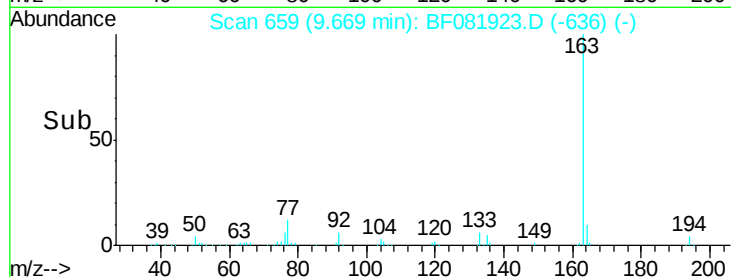


Abundance Ion 163.00 (162.70 to 163.70): E

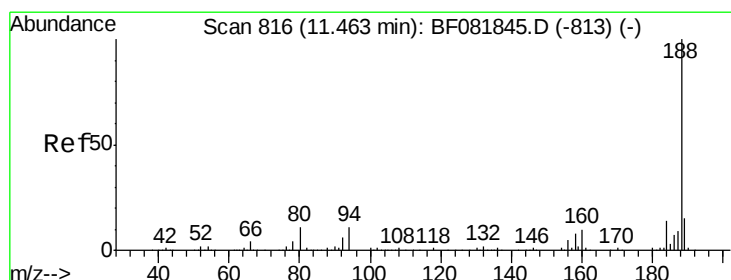
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

Time-->



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

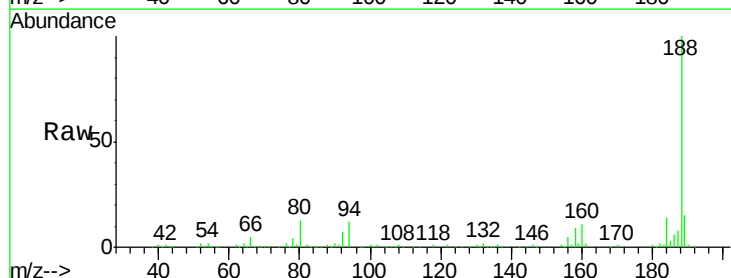
RT: 11.43 min Scan# 813

Delta R.T. -0.03 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Tgt Ion:	188	Resp:	383707
Ion Ratio		Lower	Upper
188	100		
94	11.8	11.1	16.7
80	13.5	11.0	16.4

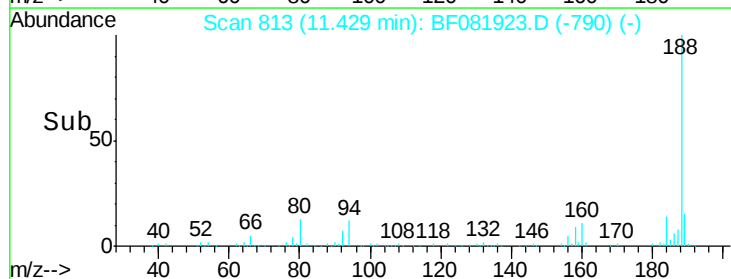


Abundance Ion 188.00 (187.70 to 188.70): E

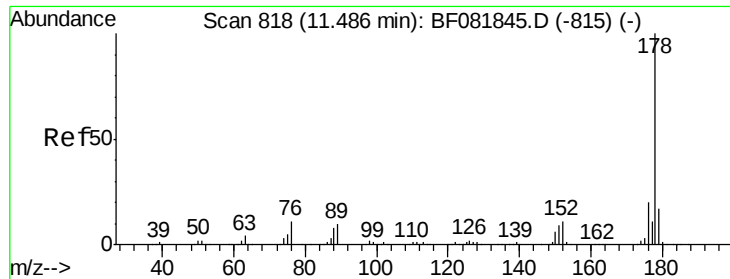
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

Time-->



Time-->



#70

Phenanthrene

Concen: 8.06 ng

RT: 11.46 min Scan# 816

Delta R.T. -0.02 min

Lab File: BF081923.D

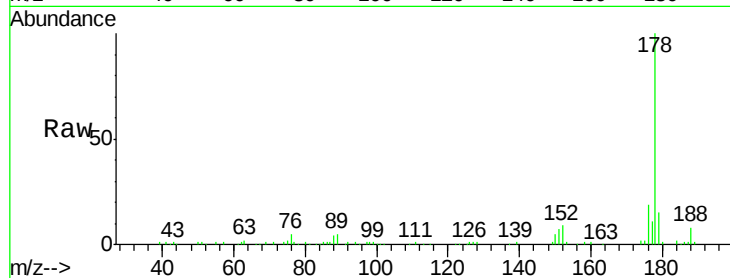
Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

ClientSampleId :

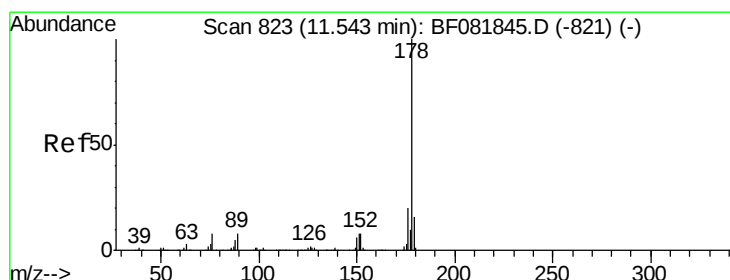
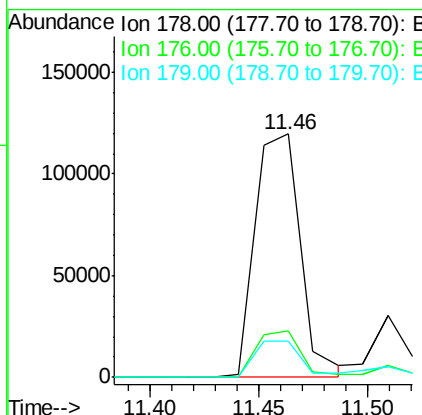
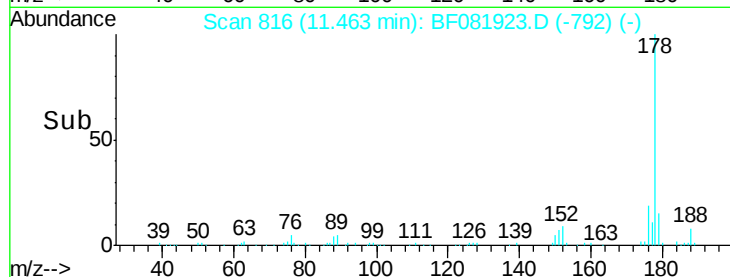
013-TB-11(0-4)



Tgt Ion:	178	Resp:	174043
Ion Ratio	Lower	Upper	
178	100		
176	19.0	13.8	20.8
179	14.8	12.2	18.2

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#71

Anthracene

Concen: 2.12 ng

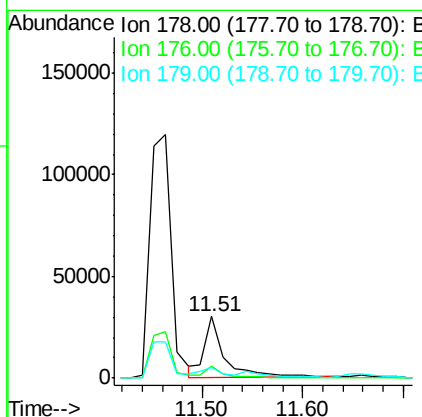
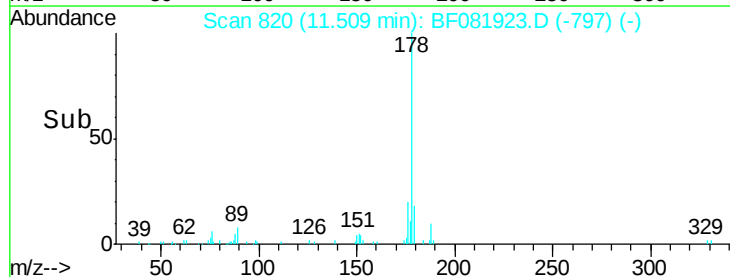
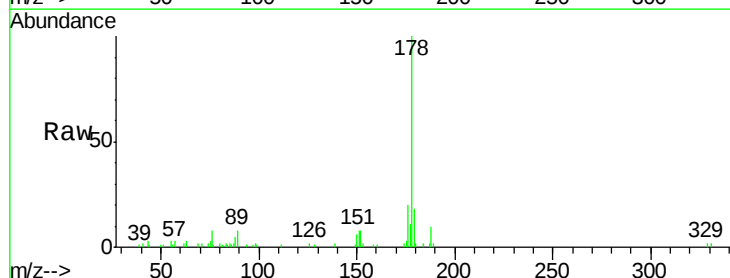
RT: 11.51 min Scan# 820

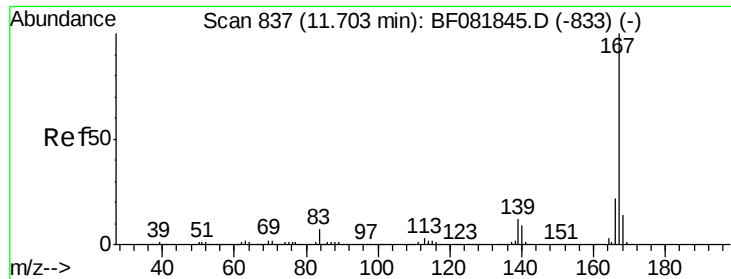
Delta R.T. -0.03 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Tgt Ion:	178	Resp:	41305
Ion Ratio	Lower	Upper	
178	100		
176	19.5	14.1	21.1
179	17.5	12.2	18.2





#72

Carbazole

Concen: 2.12 ng

RT: 11.67 min Scan# 834

Delta R.T. -0.03 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

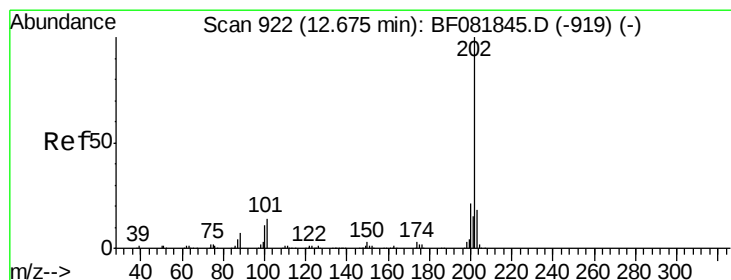
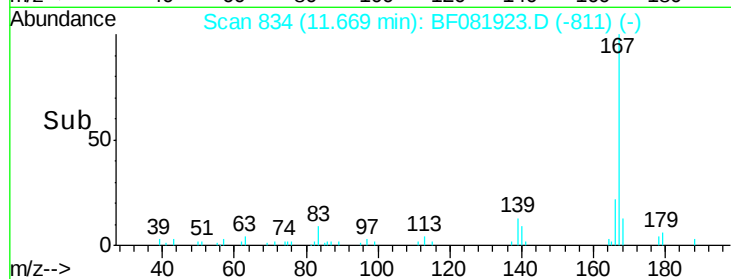
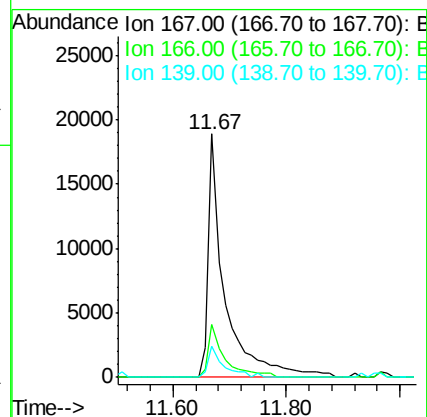
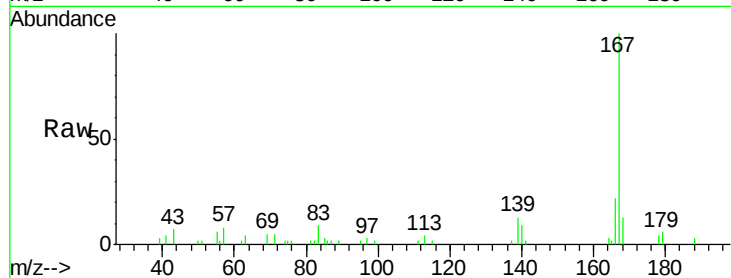
ClientSampleId :

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Tgt Ion:	167	Resp:	37353
Ion Ratio	Lower	Upper	
167	100		
166	21.6	15.7	23.5
139	12.6	9.5	14.3

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#74

Fluoranthene

Concen: 16.82 ng

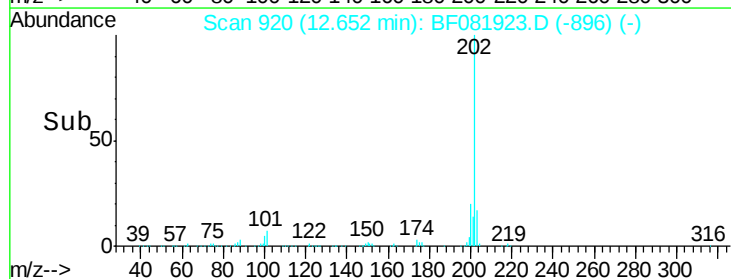
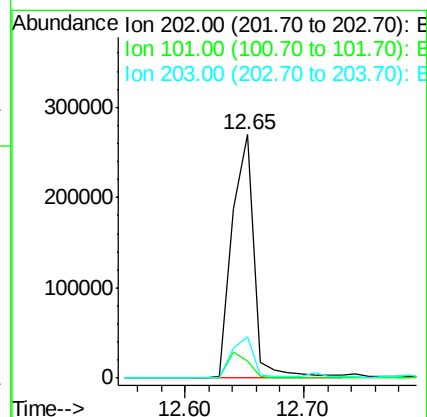
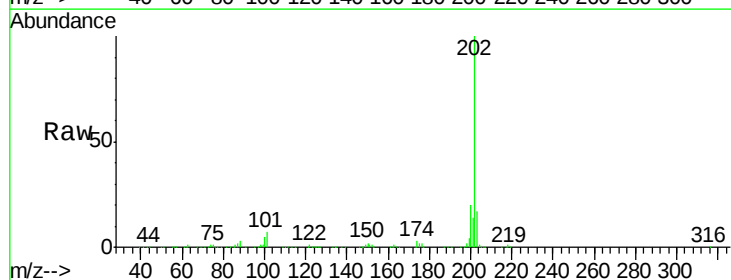
RT: 12.65 min Scan# 920

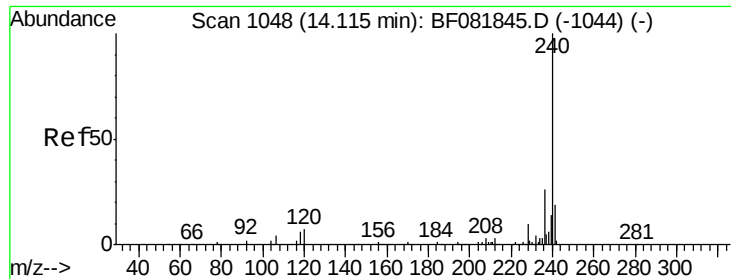
Delta R.T. -0.02 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Tgt Ion:	202	Resp:	345747
Ion Ratio	Lower	Upper	
202	100		
101	7.1	0.0	38.3
203	17.0	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1045

Delta R.T. -0.03 min

Lab File: BF081923.D

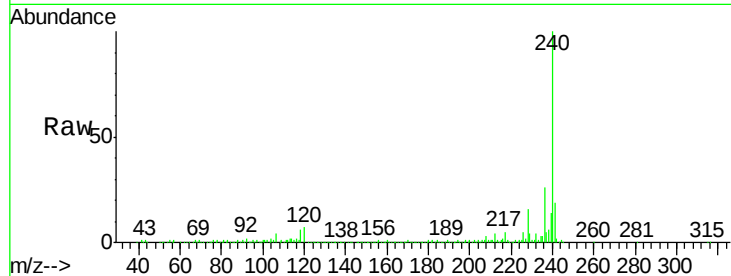
Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

ClientSampleId :

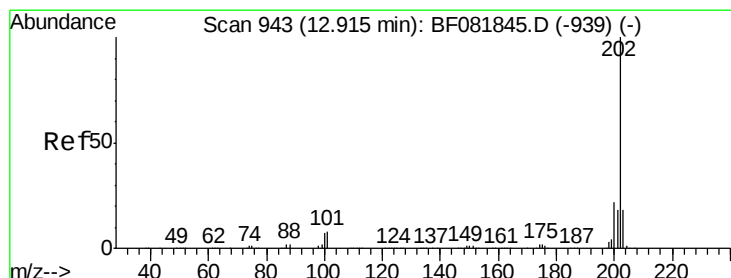
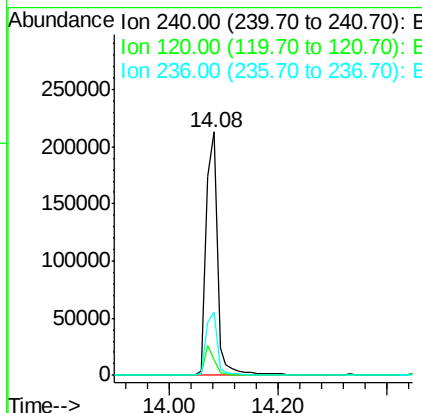
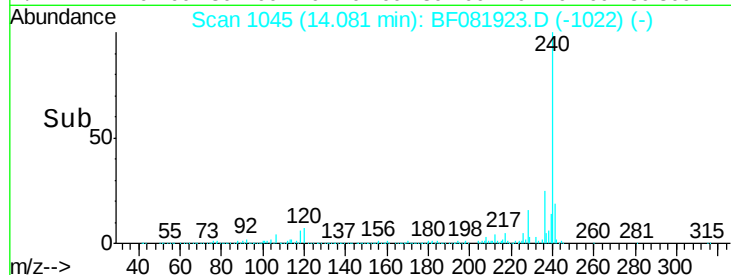
013-TB-11(0-4)



Tgt	Ion	Ratio	Lower	Upper
240	100			
120	6.5	16.2	24.2#	
236	25.8	18.4	27.6	

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#77

Pyrene

Concen: 13.26 ng

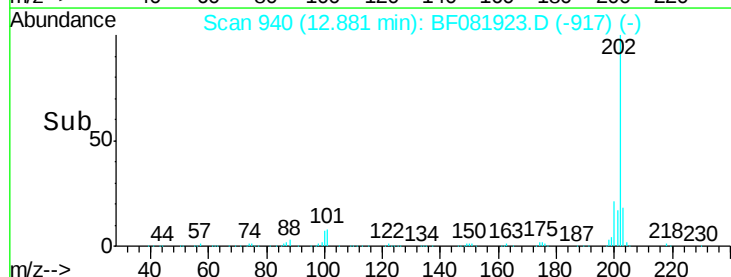
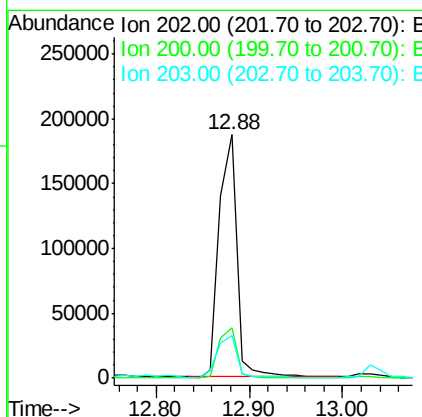
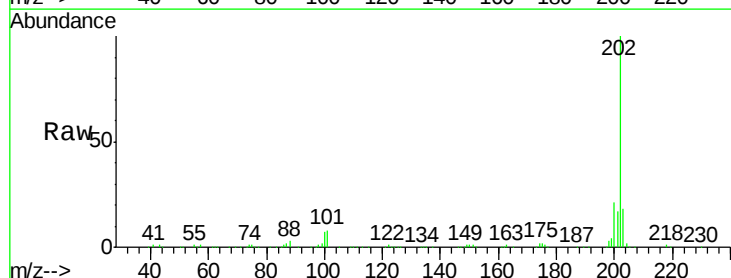
RT: 12.88 min Scan# 940

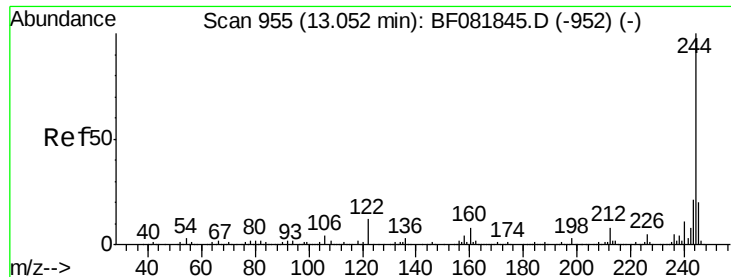
Delta R.T. -0.03 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Tgt	Ion	Ratio	Lower	Upper
202	100			
200	20.7	15.0	22.4	
203	17.6	14.1	21.1	





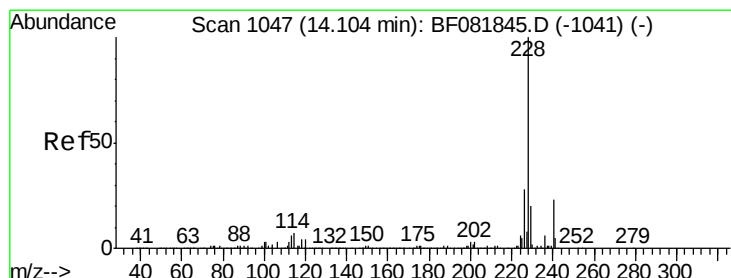
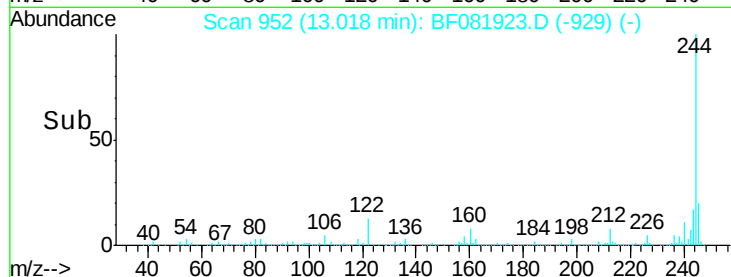
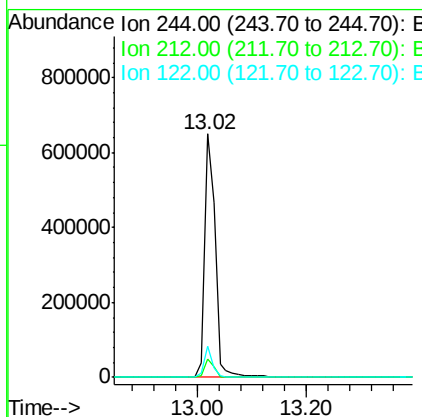
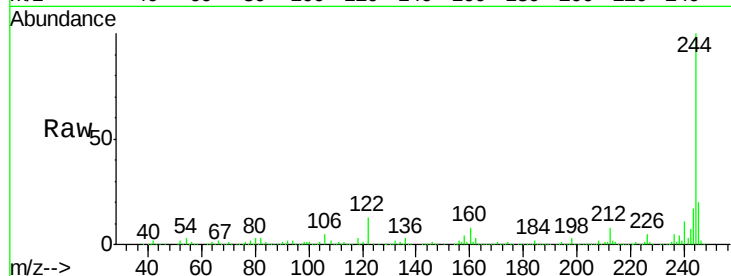
#78
 Terphenyl-d14
 Concen: 91.93 ng
 RT: 13.02 min Scan# 952
 Delta R.T. -0.03 min
 Lab File: BF081923.D
 Acq: 1 Oct 2015 1:54

Instrument :
 BNA_F
 ClientSampleId :
 013-TB-11(0-4)

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.6	4.3	6.5#
122	13.0	17.4	26.2#

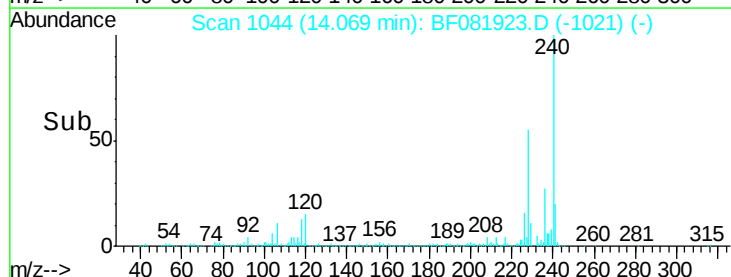
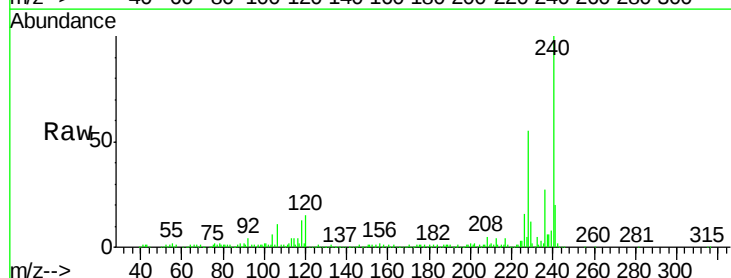
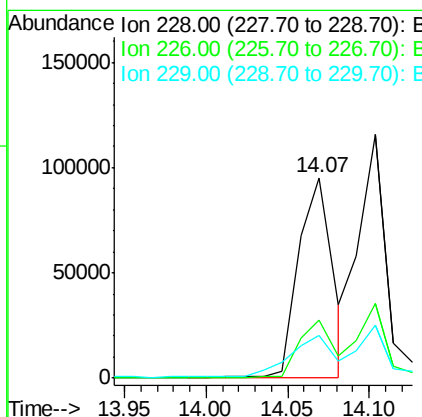
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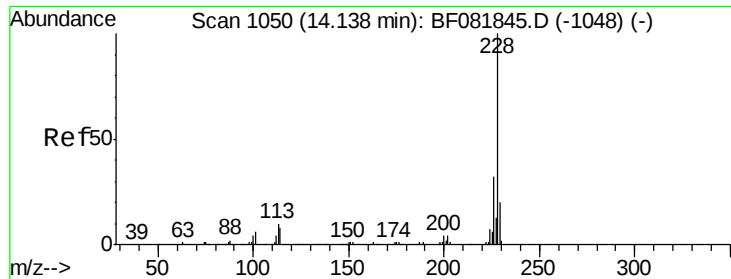
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#80
 Benzo(a)anthracene
 Concen: 8.24 ng
 RT: 14.07 min Scan# 1044
 Delta R.T. -0.03 min
 Lab File: BF081923.D
 Acq: 1 Oct 2015 1:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.2	20.0	30.0
229	21.0	15.4	23.2





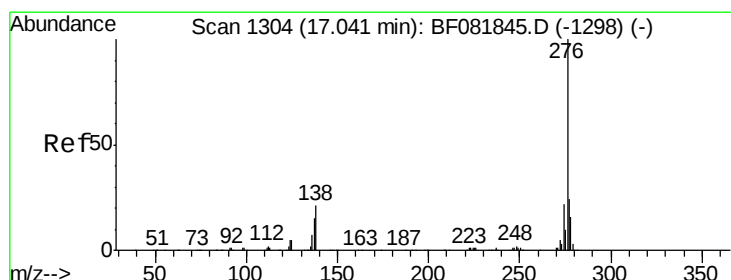
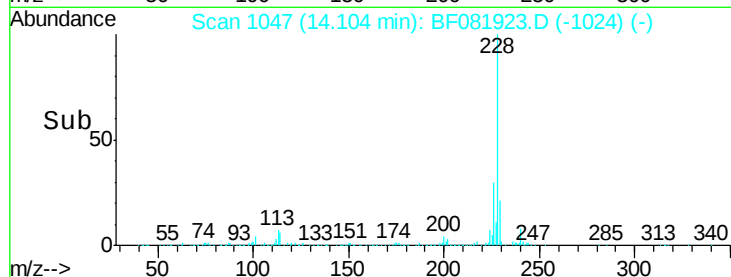
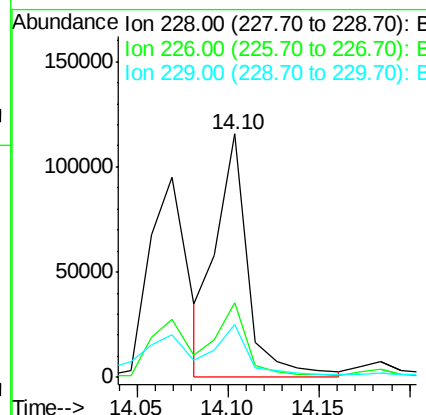
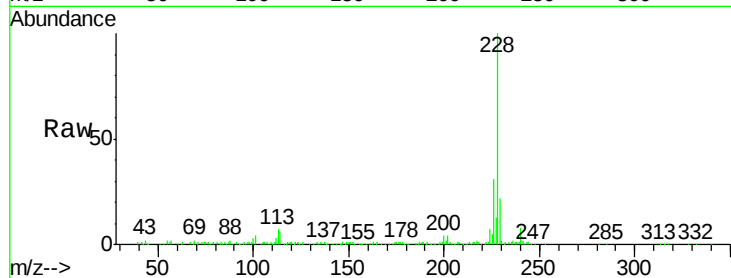
#82
Chrysene
Concen: 7.54 ng m
RT: 14.10 min Scan# 1047
Delta R.T. -0.03 min
Lab File: BF081923.D
Acq: 1 Oct 2015 1:54

Instrument :
BNA_F
ClientSampleId :
013-TB-11(0-4)

Tgt Ion:	228	Resp:	142612
Ion Ratio	Lower	Upper	
228	100		
226	30.6	21.0	31.4
229	21.7	15.6	23.4

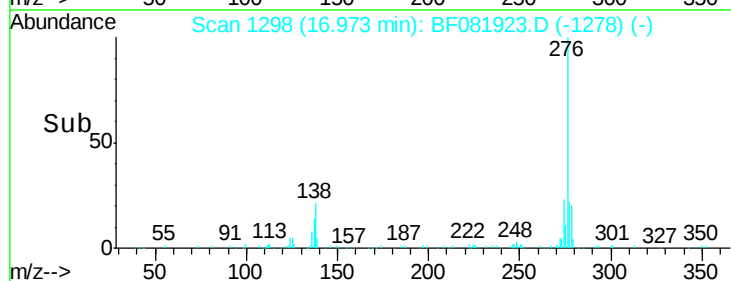
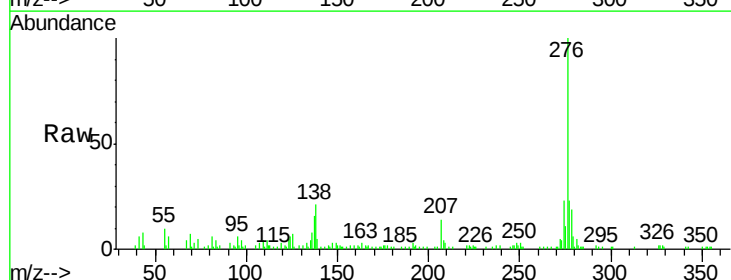
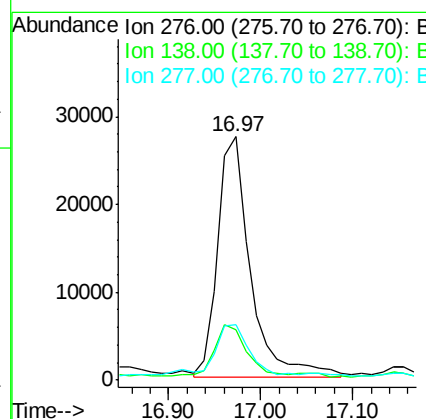
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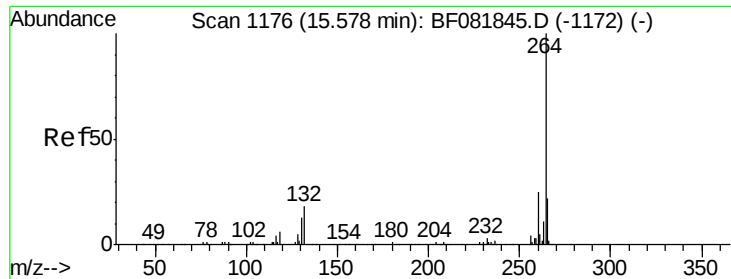
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#85
Indeno(1,2,3-cd)pyrene
Concen: 5.23 ng m
RT: 16.97 min Scan# 1298
Delta R.T. -0.07 min
Lab File: BF081923.D
Acq: 1 Oct 2015 1:54

Tgt Ion:	276	Resp:	68356
Ion Ratio	Lower	Upper	
276	100		
138	7.5	25.7	38.5#
277	3.5	15.6	23.4#





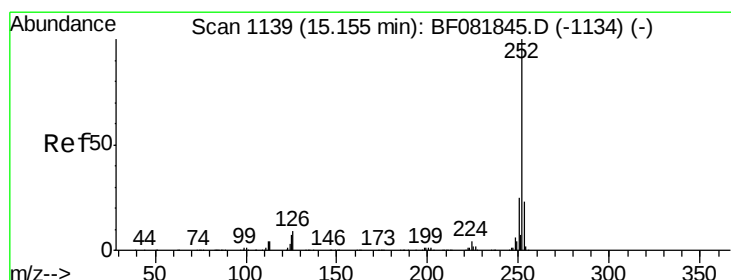
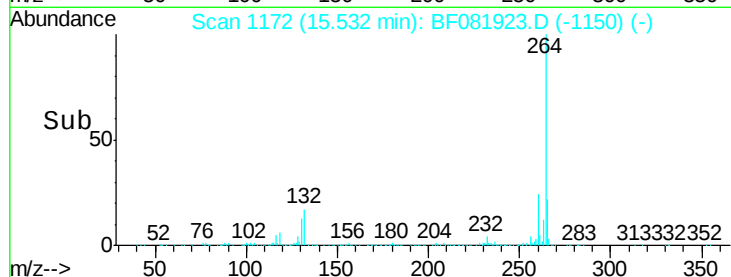
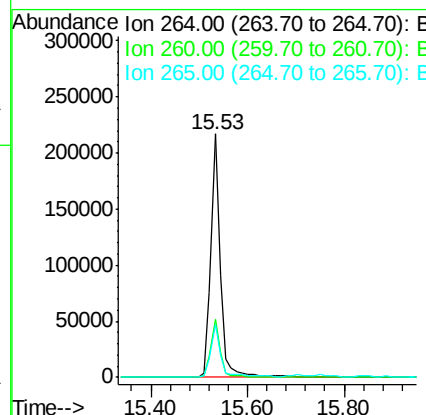
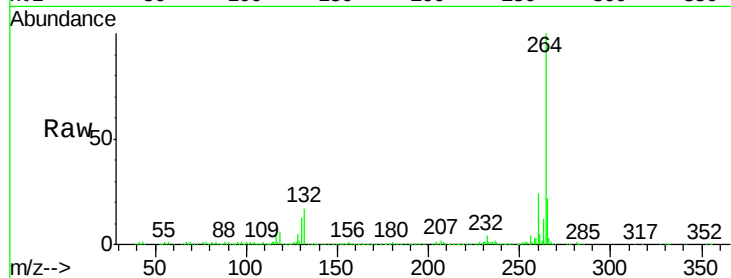
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.53 min Scan# 1172
Delta R.T. -0.05 min
Lab File: BF081923.D
Acq: 1 Oct 2015 1:54

Instrument :
BNA_F
ClientSampleId :
013-TB-11(0-4)

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	301980		
260	24.0	16.7	25.1	
265	21.7	17.2	25.8	

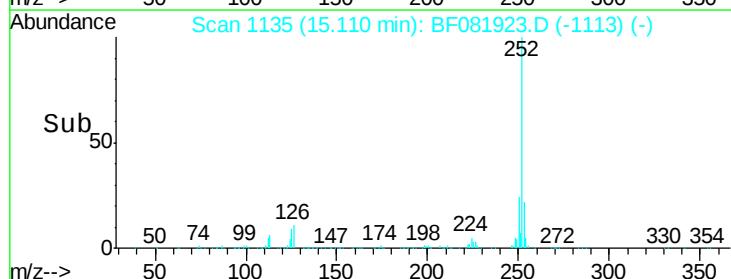
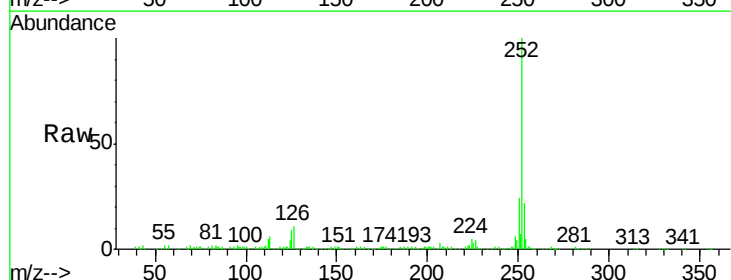
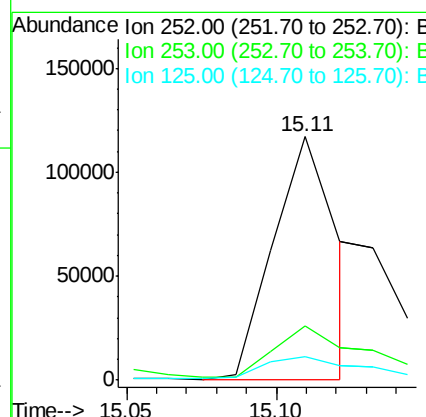
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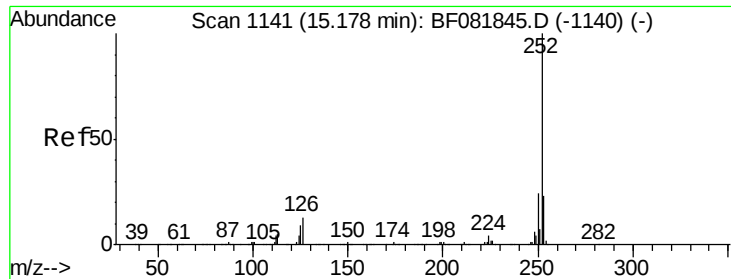
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10/1/2015 2:24:17 PM



#87
Benzo(b)fluoranthene
Concen: 9.89 ng m
RT: 15.11 min Scan# 1135
Delta R.T. -0.05 min
Lab File: BF081923.D
Acq: 1 Oct 2015 1:54

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	170522		
253	22.4	17.5	26.3	
125	9.5	17.1	25.7#	





#88

Benzo(k)fluoranthene

Concen: 4.91 ng m

RT: 15.12 min Scan# 1136

Delta R.T. -0.06 min

Lab File: BF081923.D

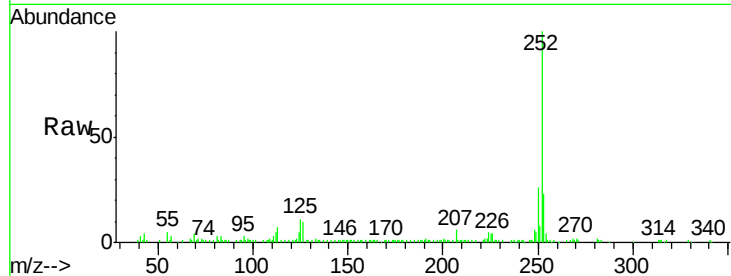
Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

ClientSampleId :

013-TB-11(0-4)



Tgt Ion: 252 Resp: 77622

Ion Ratio Lower Upper

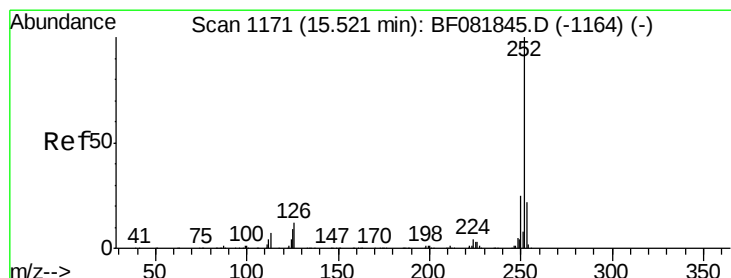
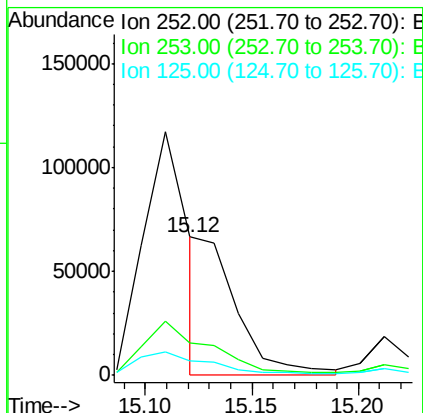
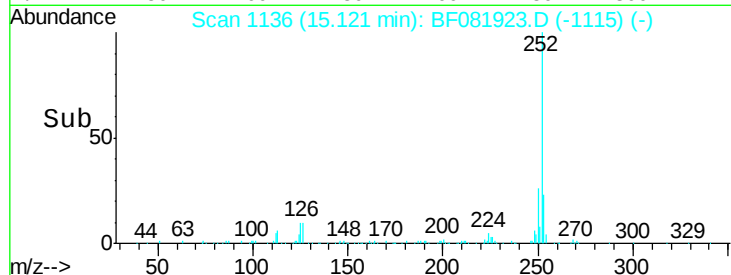
252 100

253 23.2 17.0 25.4

125 10.6 16.0 24.0#

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#89

Benzo(a)pyrene

Concen: 6.93 ng

RT: 15.46 min Scan# 1166

Delta R.T. -0.06 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

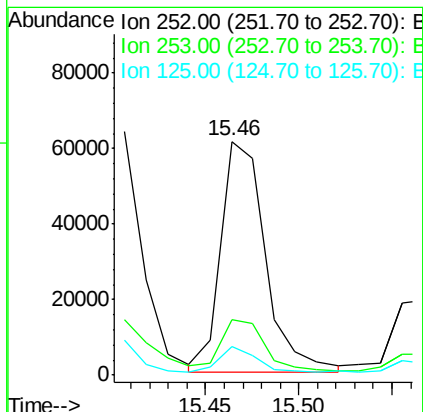
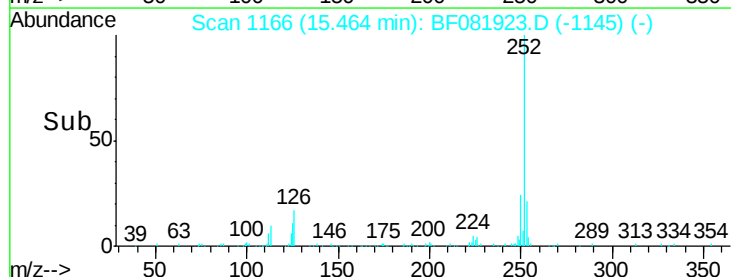
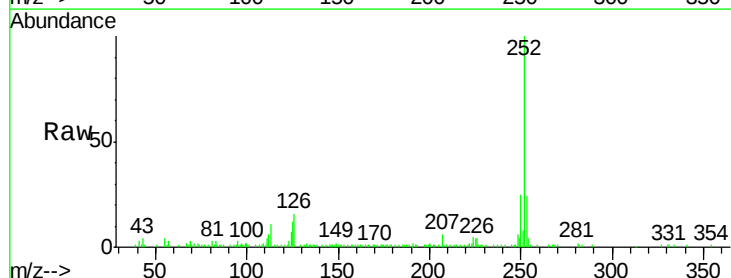
Tgt Ion: 252 Resp: 103703

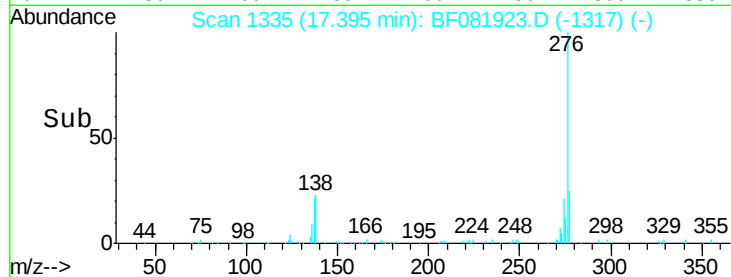
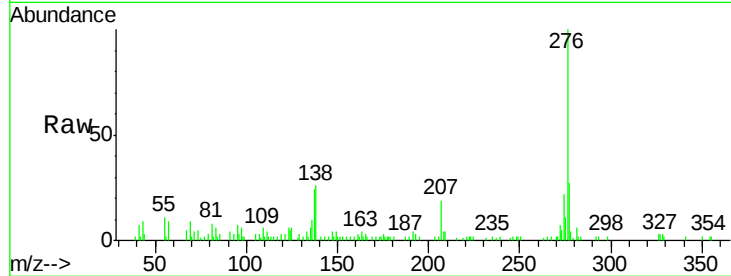
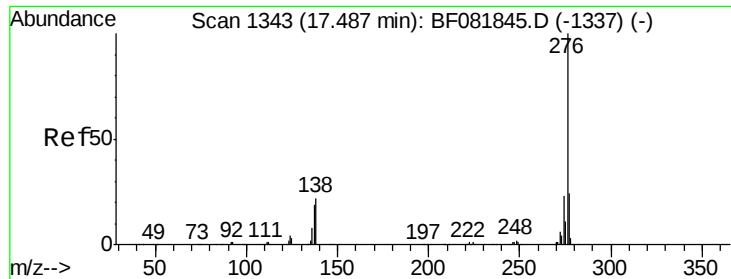
Ion Ratio Lower Upper

252 100

253 23.5 17.2 25.8

125 12.3 18.0 27.0#





#91

Benzo(g,h,i)perylene

Concen: 4.27 ng

RT: 17.40 min Scan# 1335

Delta R.T. -0.09 min

Lab File: BF081923.D

Acq: 1 Oct 2015 1:54

Instrument :

BNA_F

ClientSampleId :

013-TB-11(0-4)

Tgt Ion:	276	Resp:	54862
Ion Ratio		Lower	Upper
276	100		
277	26.7	17.8	26.6#
138	25.9	34.6	51.8#

Manual Integrations
APPROVED

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