

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088218.D
 Acq On : 24 Oct 2014 18:15
 Operator : TP/JJ
 Sample : PB79823BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

Manual Integrations
 APPROVED

mohammad
 10/28/2014 12:22:32 PM

Quant Time: Oct 27 13:17:01 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	40862	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	156737	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	69952	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	122862	5.00	ng	0.00
16) Chrysene-d12	18.34	240	67712	5.00	ng	0.00
22) Perylene-d12	21.40	264	63342	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	86930	7.44	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	149832	7.68	ng	0.00
18) Terphenyl-d14	16.11	244	102629	9.25	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.38	88	48651	8.55	ng	99
5) Naphthalene	8.70	128	251542	7.89	ng	98
6) 2-Methylnaphthalene	9.55	142	161968	8.43	ng	99
9) Acenaphthylene	10.64	152	855521	8.18	ng	99
10) Acenaphthene	10.86	154	124241	7.51	ng	96
11) Fluorene	11.52	166	135533	8.03	ng	100
13) Phenanthrene	12.97	178	954290	8.05	ng	97
14) Anthracene	13.06	178	775599	8.87	ng	100
15) Fluoranthene	15.21	202	170012	9.46	ng	99
17) Pyrene	15.67	202	180516	9.71	ng	99
19) Benzo(a)anthracene	18.33	228	541805	10.16	ng	99
20) Chrysene	18.40	228	555631	9.18	ng	99
21) Indeno(1,2,3-cd)pyrene	23.58	276	517415m	8.06	ng	
23) Benzo(b)fluoranthene	20.65	252	119411	8.83	ng	99
24) Benzo(k)fluoranthene	20.70	252	149779	9.16	ng	99
25) Benzo(a)pyrene	21.29	252	121400	9.04	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	106191	8.24	ng	97
27) Benzo(g,h,i)perylene	24.21	276	500026	9.85	ng	98

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

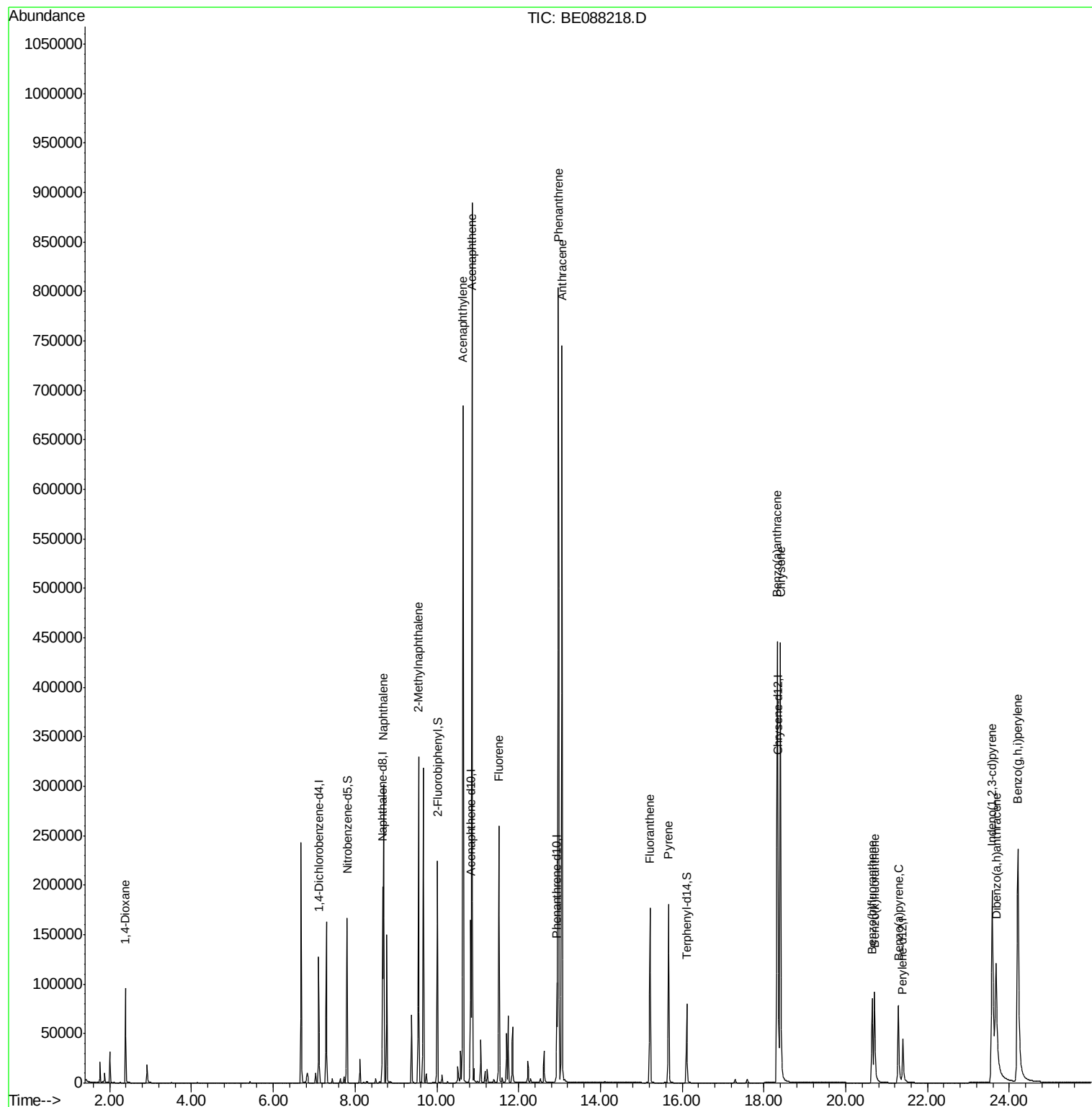
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
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ALS Vial : 13 Sample Multiplier: 1

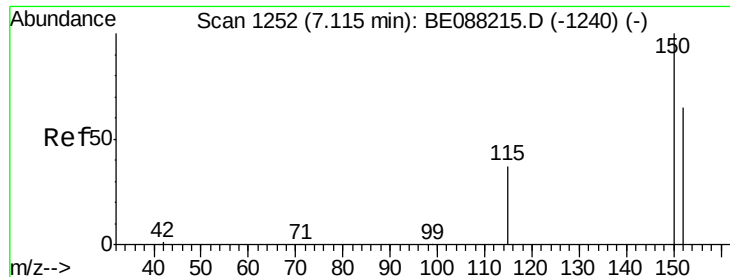
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088218.D

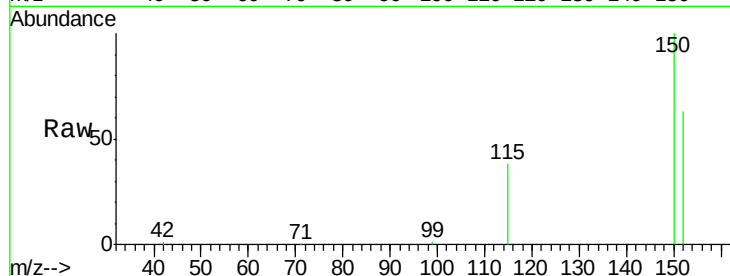
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS



Tgt Ion:152 Resp: 40862

Ion Ratio Lower Upper

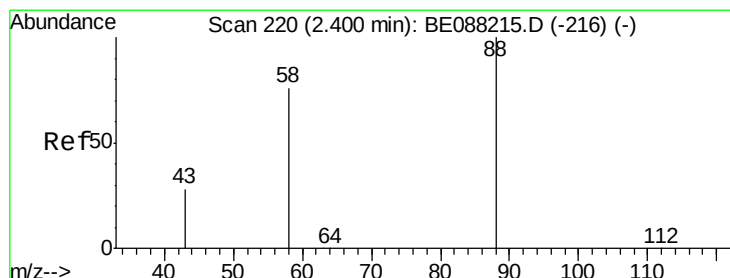
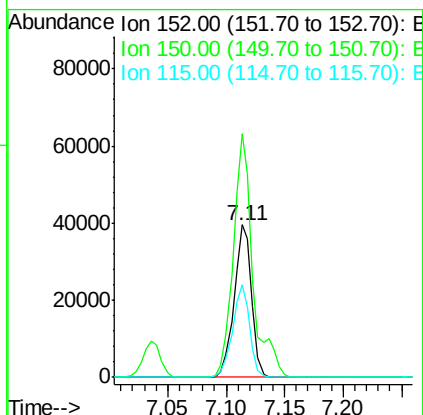
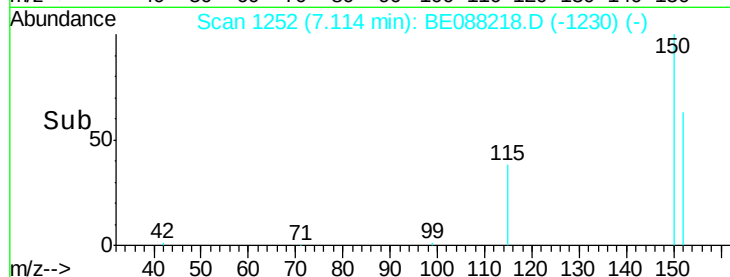
152 100

150 159.5 123.2 184.8

115 61.0 45.3 67.9

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#2

1,4-Dioxane

Concen: 8.55 ng

RT: 2.38 min Scan# 217

Delta R.T. -0.02 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

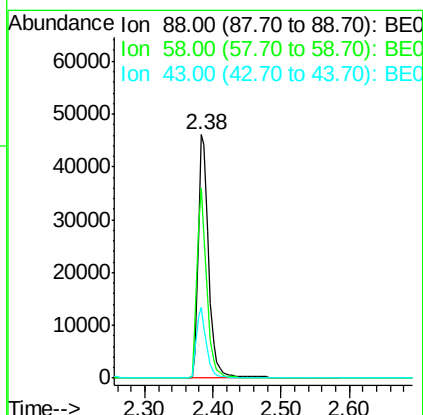
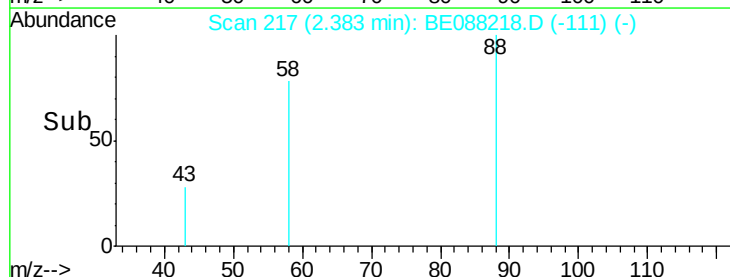
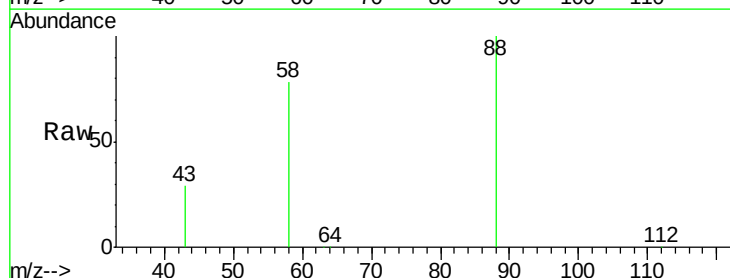
Tgt Ion: 88 Resp: 48651

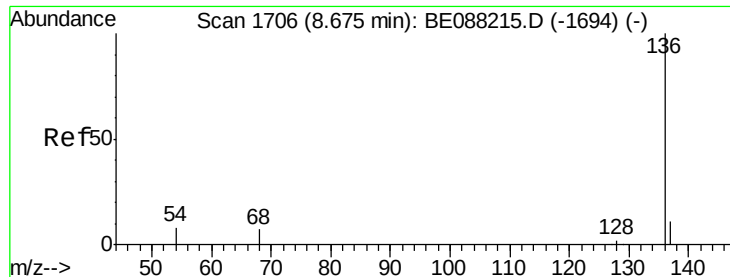
Ion Ratio Lower Upper

88 100

58 74.9 59.0 88.4

43 28.2 21.9 32.9





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

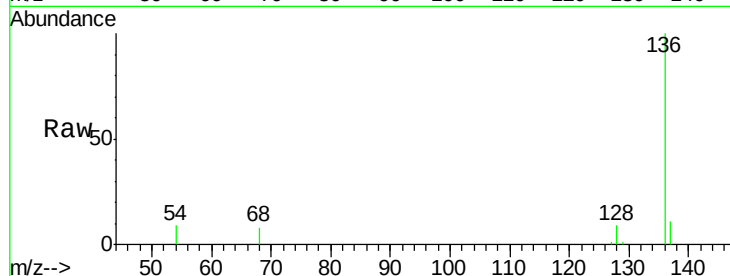
ClientSampleId :

PB79823BS

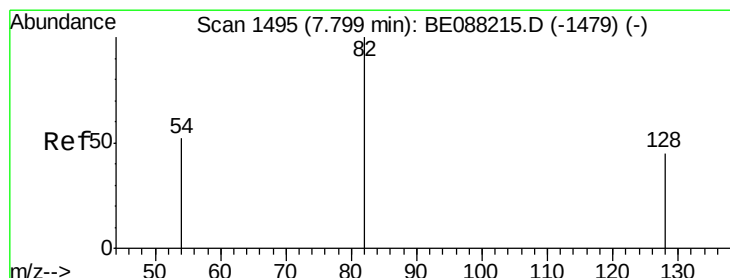
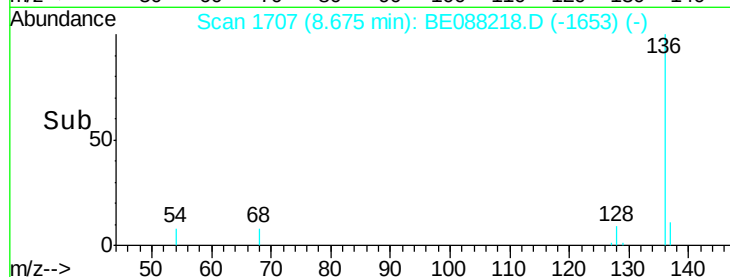
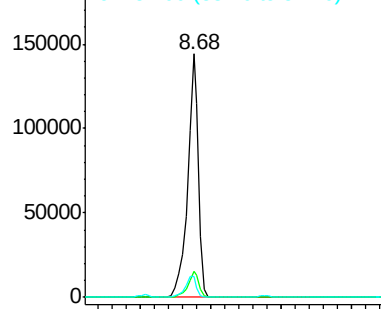
Tgt Ion:	136	Resp:	156737
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.7	13.1
54	8.5	6.1	9.1

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Abundance Ion 136.00 (135.70 to 136.70): BE088218.D (-1653) (-)



#4

Nitrobenzene-d5

Concen: 7.44 ng

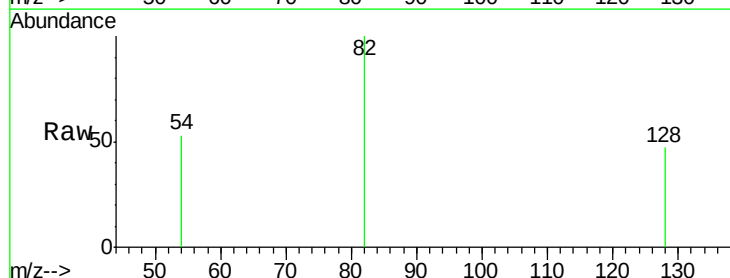
RT: 7.80 min Scan# 1497

Delta R.T. 0.00 min

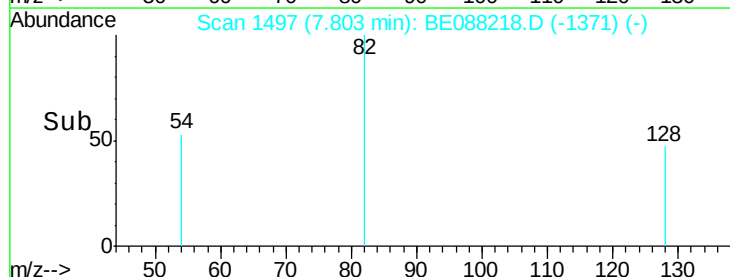
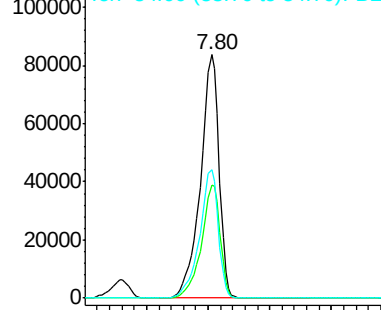
Lab File: BE088218.D

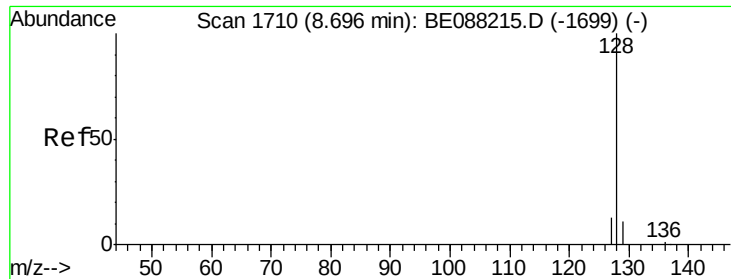
Acq: 24 Oct 2014 18:15

Tgt Ion:	82	Resp:	86930
Ion Ratio	Lower	Upper	
82	100		
128	46.7	36.2	54.2
54	52.7	41.8	62.8



Abundance Ion 82.00 (81.70 to 82.70): BE088218.D (-1371) (-)





#5

Naphthalene

Concen: 7.89 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

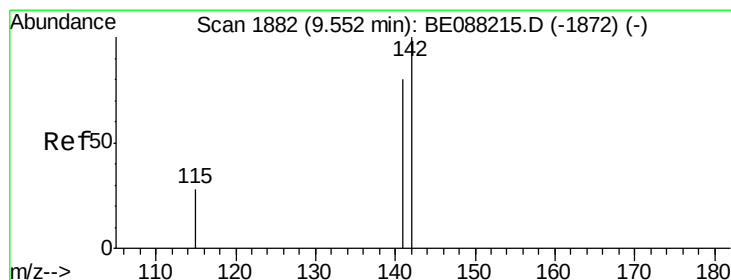
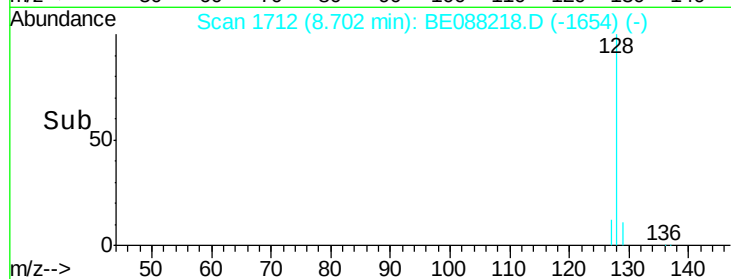
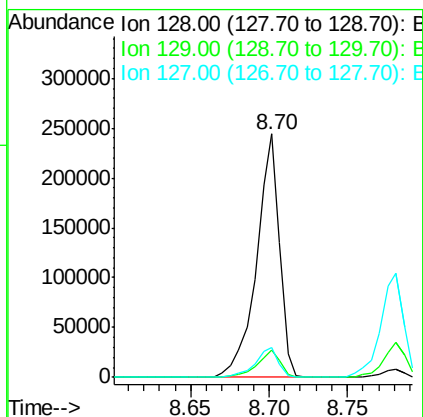
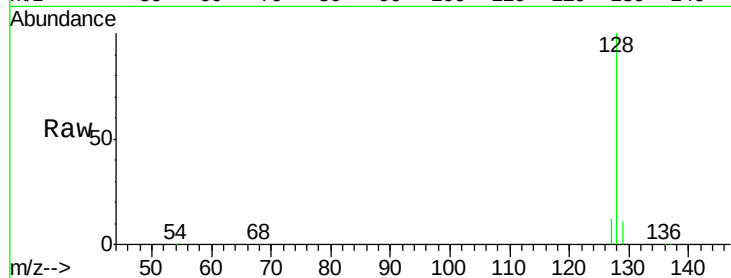
ClientSampleId :

PB79823BS

Tgt	Ion:128	Resp:	251542
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	12.8
127	12.1	10.4	15.6

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#6

2-Methylnaphthalene

Concen: 8.43 ng

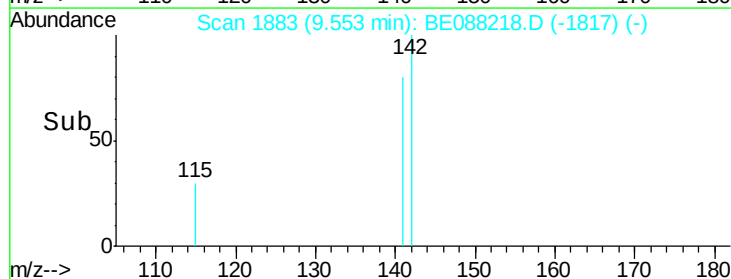
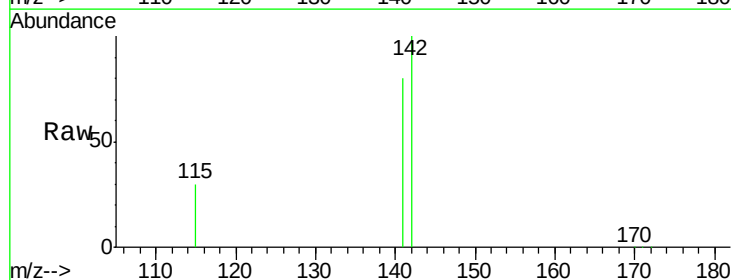
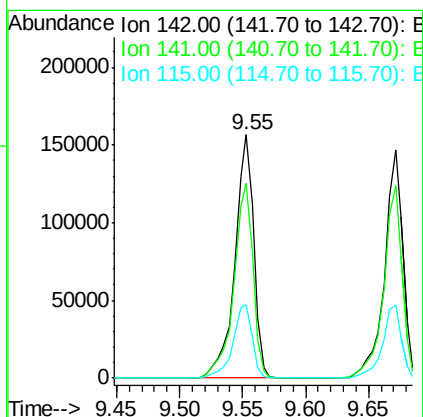
RT: 9.55 min Scan# 1883

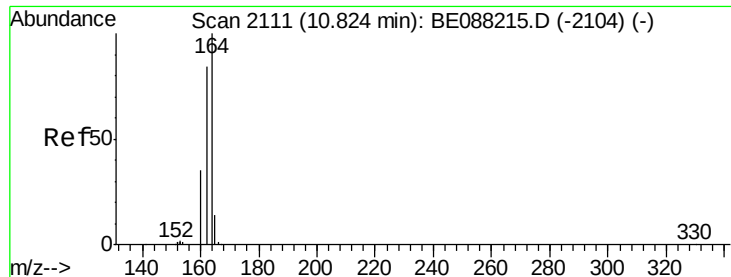
Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt	Ion:142	Resp:	161968
Ion	Ratio	Lower	Upper
142	100		
141	80.2	63.7	95.5
115	30.4	22.6	34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088218.D

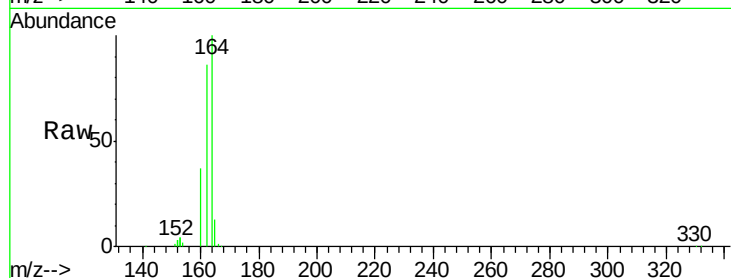
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

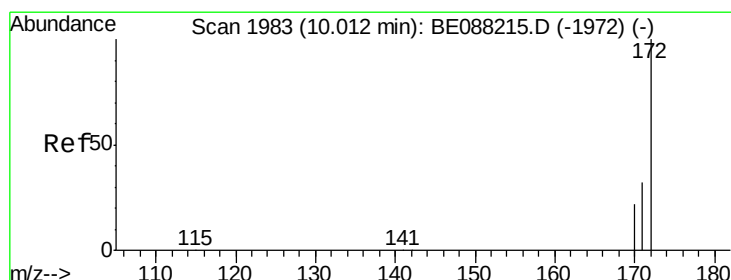
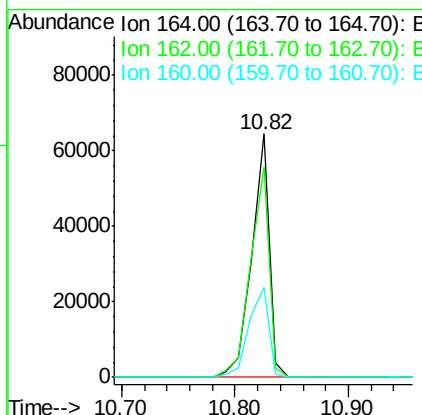
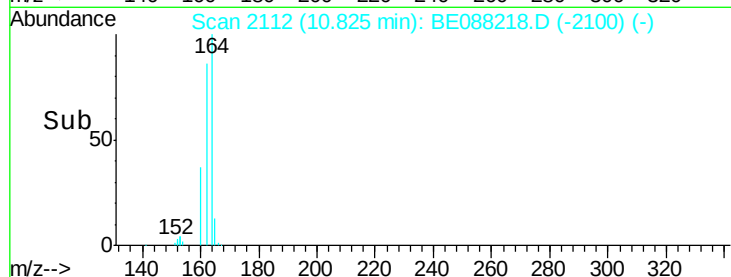
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Tgt Ion:	164	Resp:	69952
Ion Ratio	Lower	Upper	
164	100		
162	86.4	67.4	101.0
160	37.1	27.7	41.5

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#8

2-Fluorobiphenyl

Concen: 7.68 ng

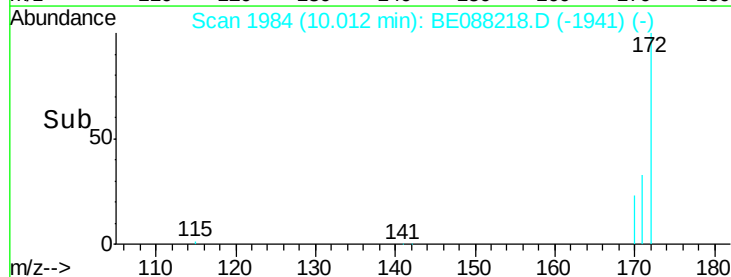
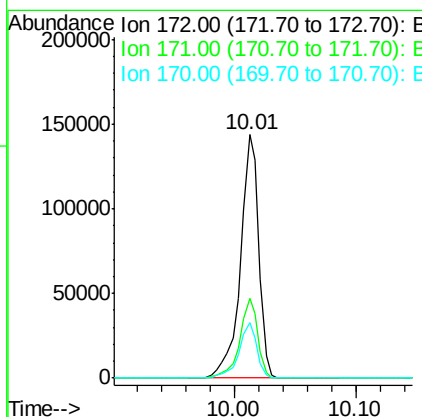
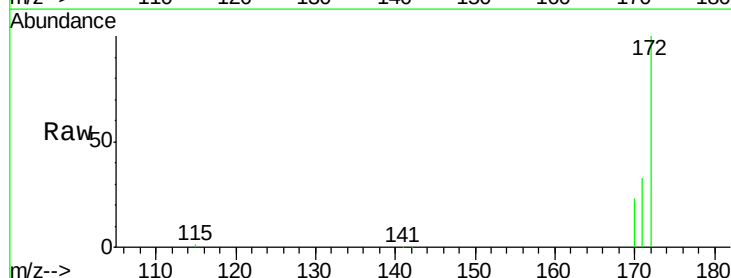
RT: 10.01 min Scan# 1984

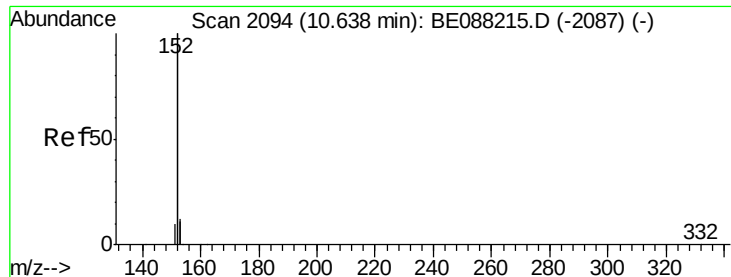
Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt Ion:	172	Resp:	149832
Ion Ratio	Lower	Upper	
172	100		
171	32.6	25.8	38.6
170	22.7	17.4	26.0





#9

Acenaphthylene

Concen: 8.18 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

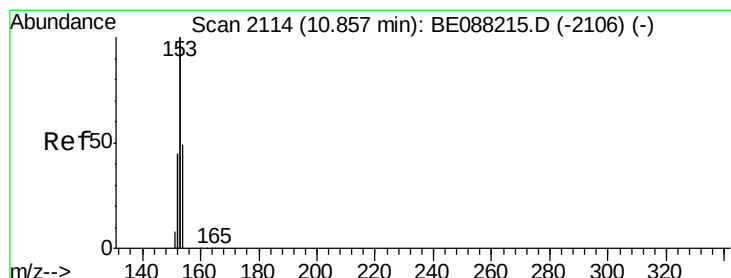
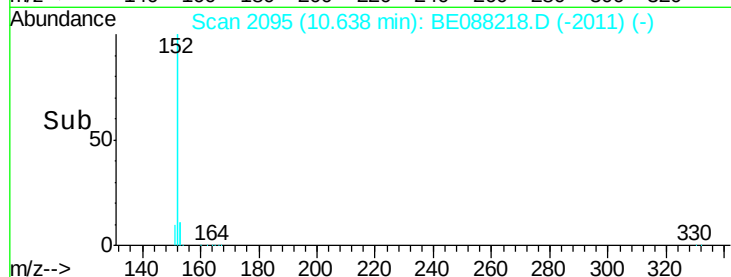
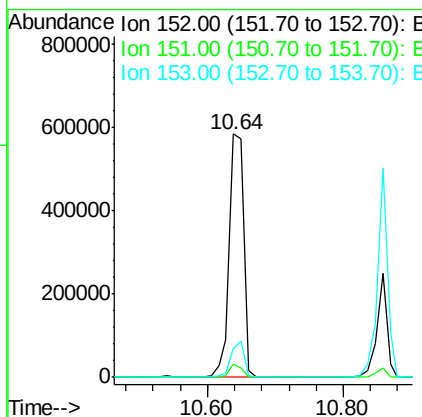
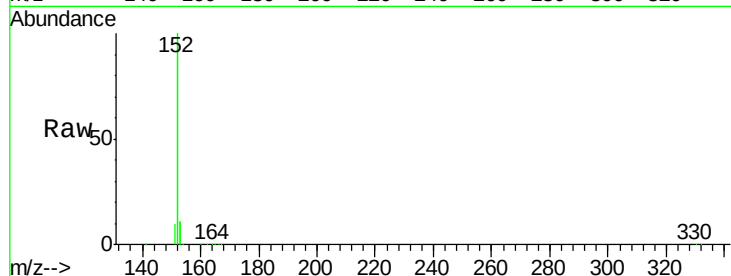
ClientSampleId :

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Tgt	Ion	Ratio	Lower	Upper
152	100			
151	4.6	3.7	5.5	
153	13.2	10.3	15.5	



#10

Acenaphthene

Concen: 7.51 ng

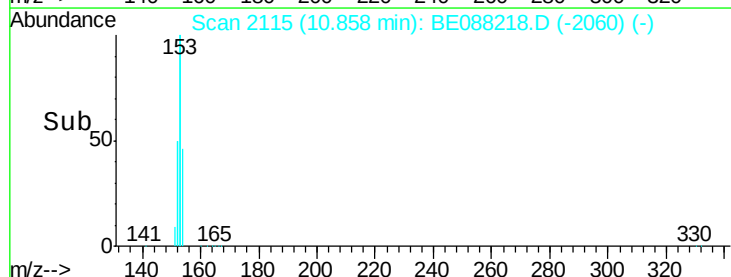
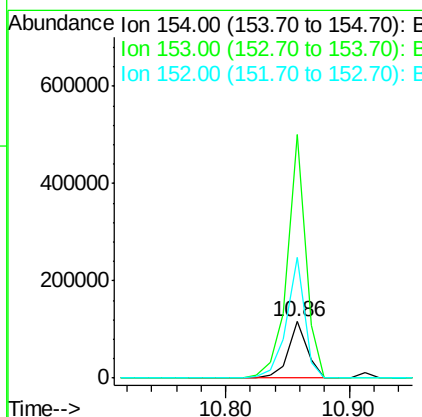
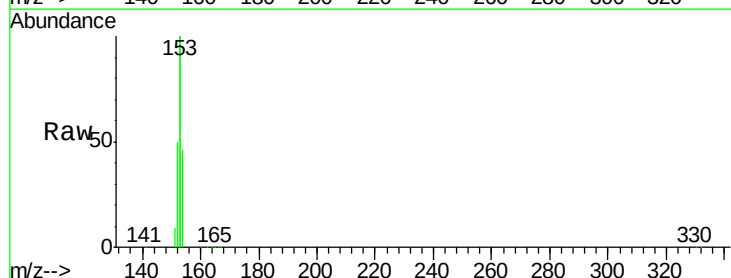
RT: 10.86 min Scan# 2115

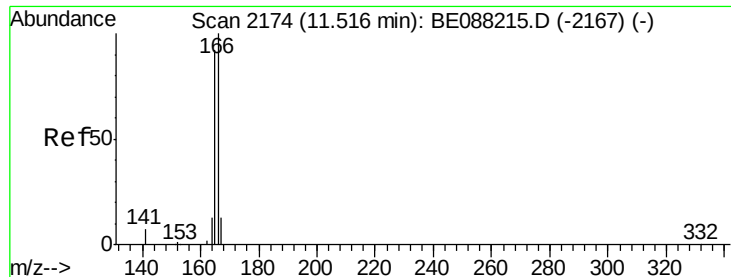
Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt	Ion	Ratio	Lower	Upper
154	100			
153	415.0	326.0	489.0	
152	203.3	155.6	233.4	





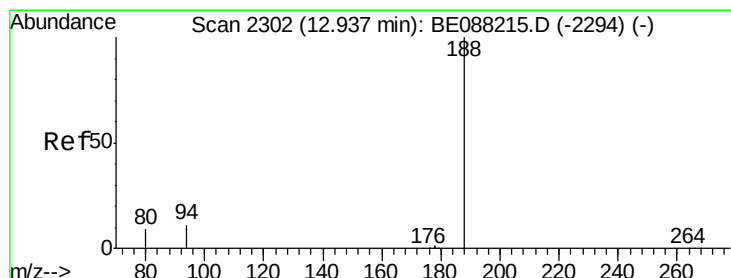
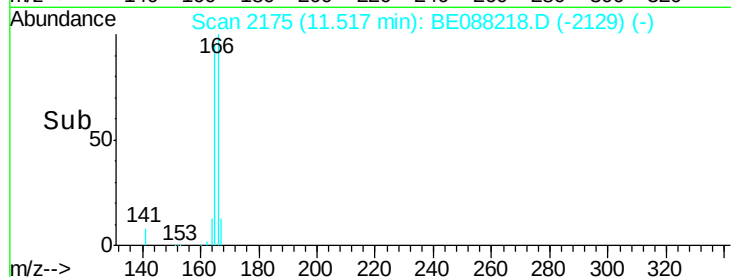
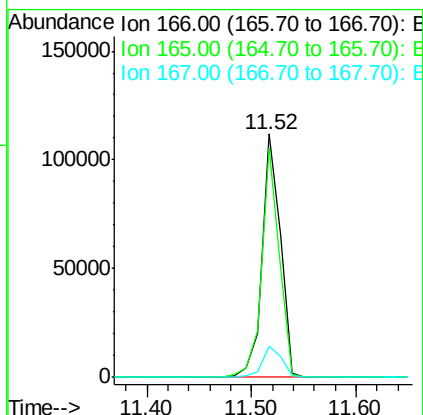
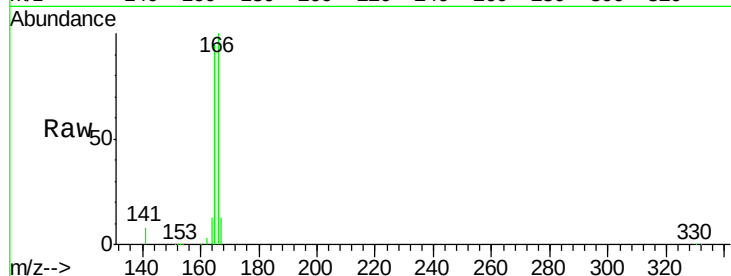
#11
Fluorene
Concen: 8.03 ng
RT: 11.52 min Scan# 2175
Delta R.T. 0.00 min
Lab File: BE088218.D
Acq: 24 Oct 2014 18:15

Instrument :
BNA_E
ClientSampleId :
PB79823BS

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	135533		
165	90.0	71.8	107.6	
167	13.5	10.7	16.1	

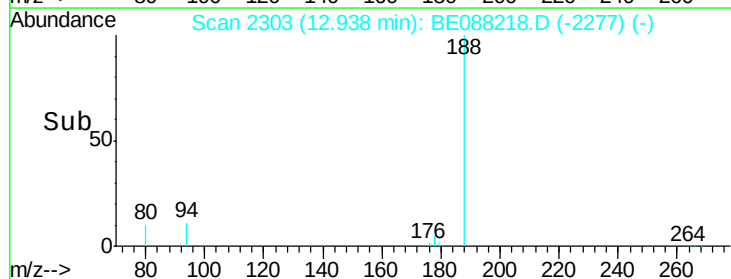
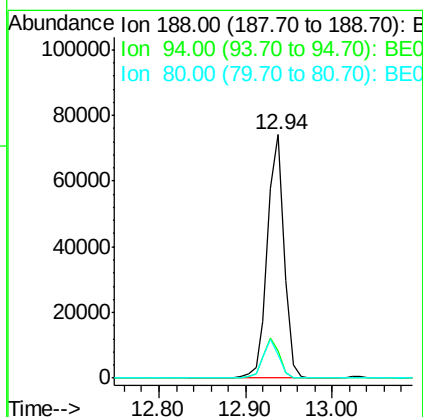
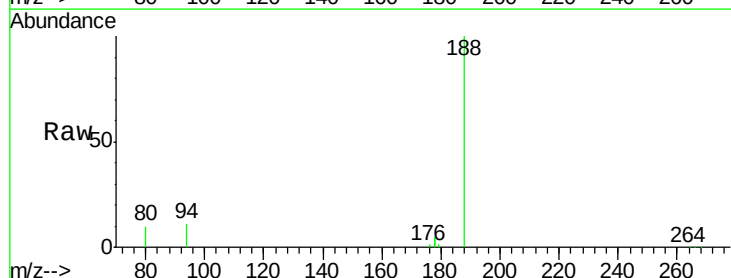
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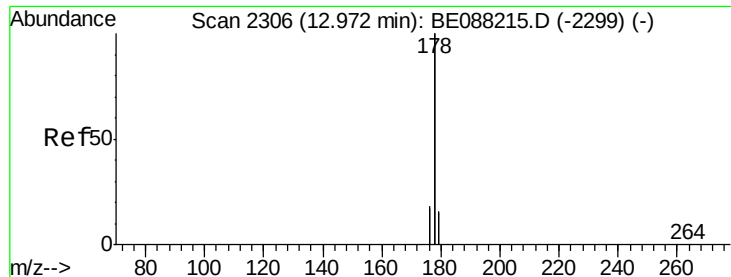
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#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.94 min Scan# 2303
Delta R.T. 0.00 min
Lab File: BE088218.D
Acq: 24 Oct 2014 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	122862		
94	11.1	8.5	12.7	
80	9.7	7.4	11.0	





#13

Phenanthrene

Concen: 8.05 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

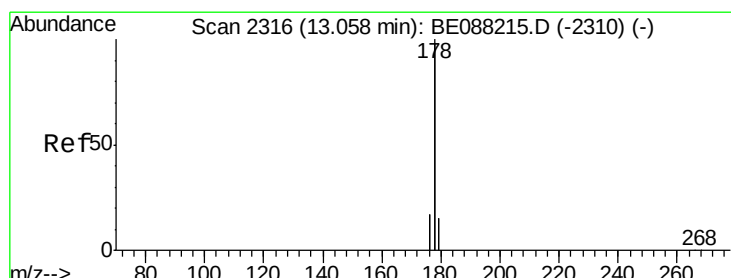
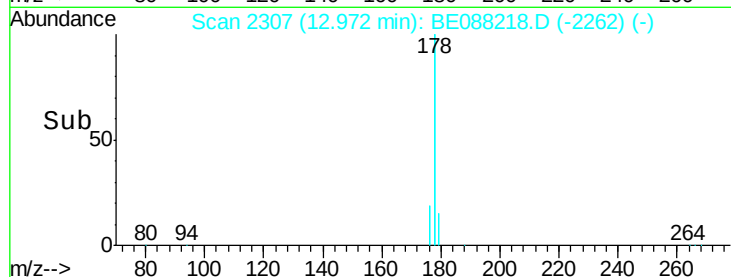
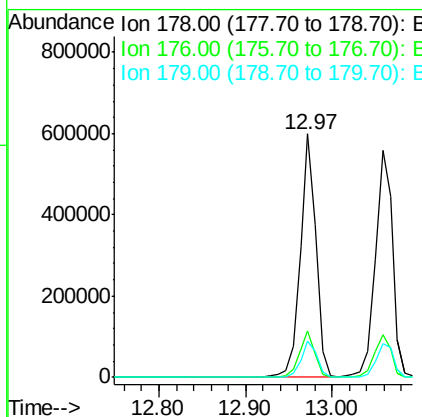
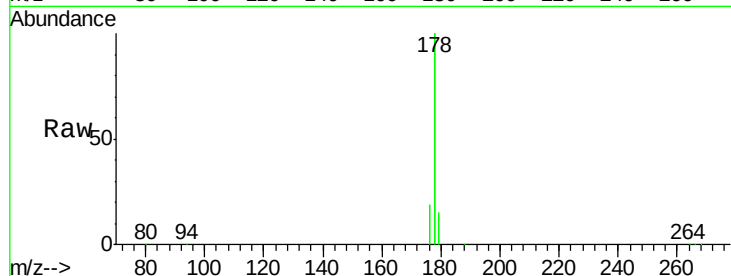
ClientSampleId :

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Tgt	Ion:178	Resp:	954290
Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.0	21.0
179	15.5	11.8	17.6

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#14

Anthracene

Concen: 8.87 ng

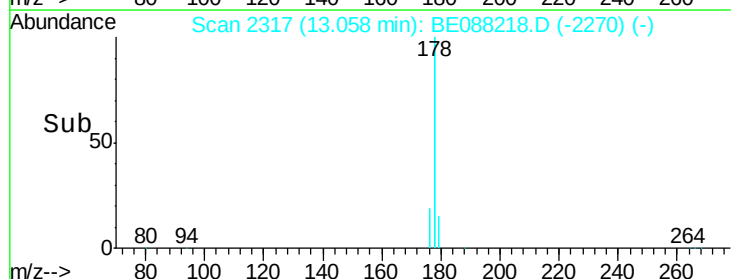
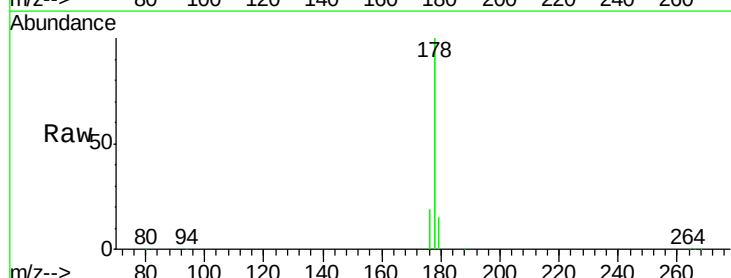
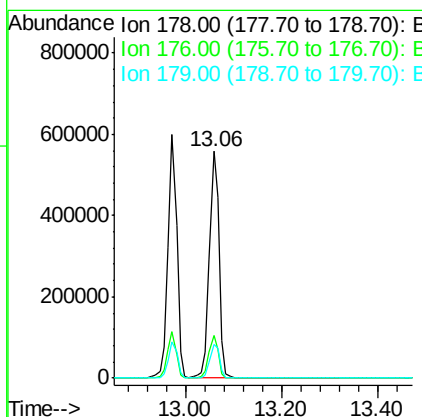
RT: 13.06 min Scan# 2317

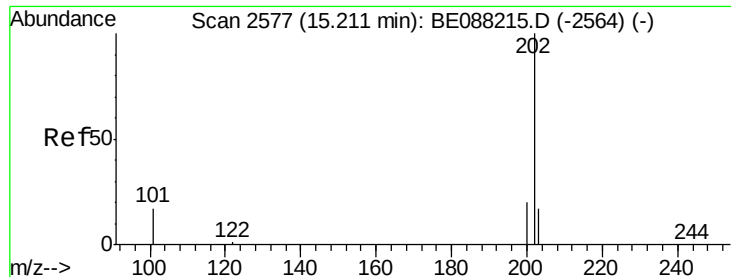
Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt	Ion:178	Resp:	775599
Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.3	12.3	18.5





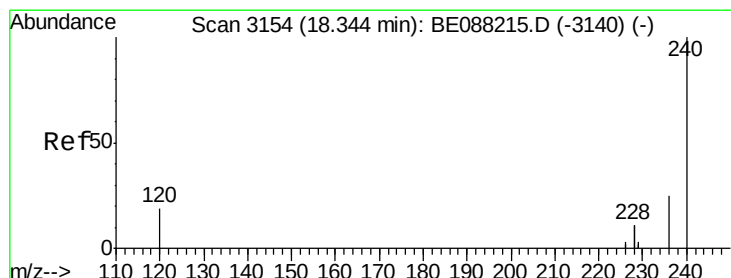
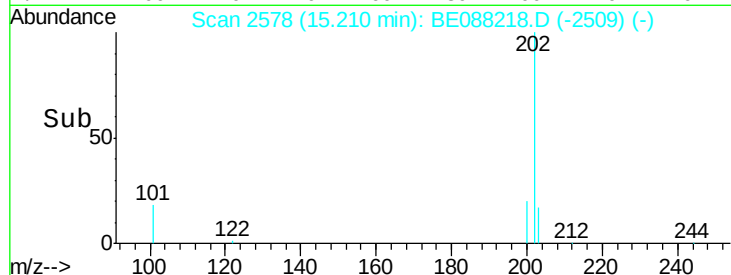
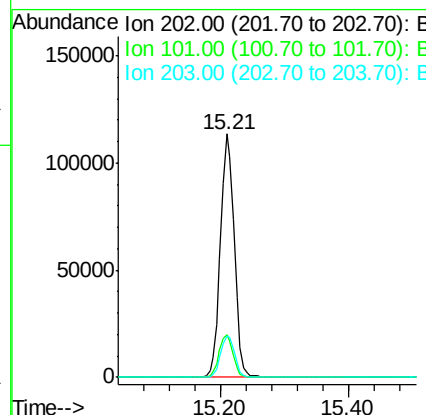
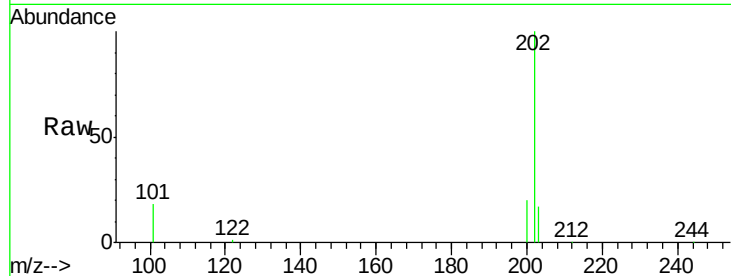
#15
 Fluoranthene
 Concen: 9.46 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	170012		
101	17.9	14.4	21.6	
203	17.4	13.4	20.2	

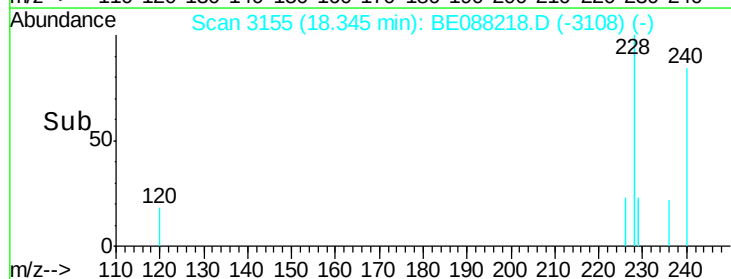
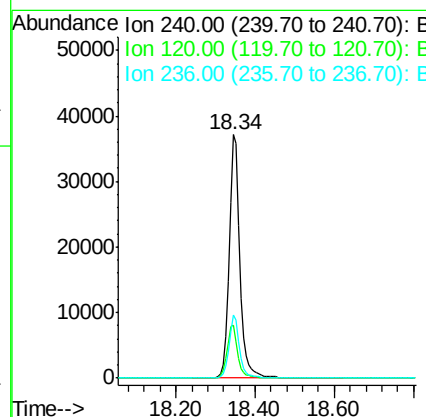
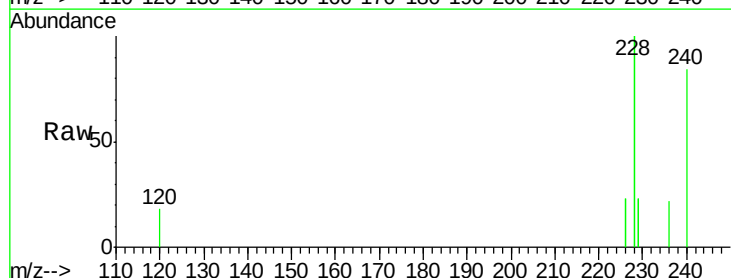
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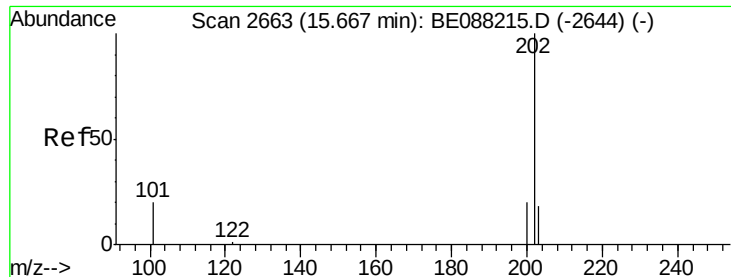
mohammad
 10/28/2014 12:22:32 PM



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.34 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	67712		
120	21.7	15.1	22.7	
236	25.7	20.1	30.1	





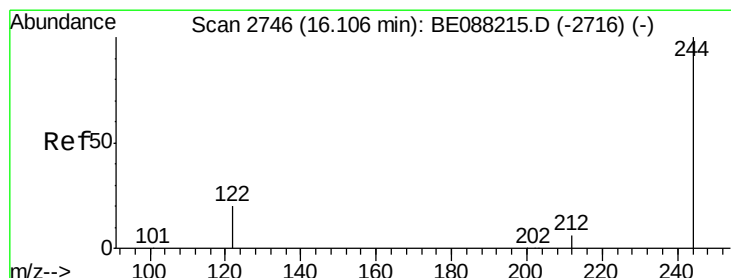
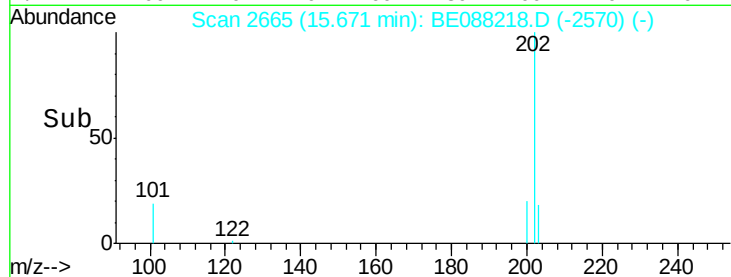
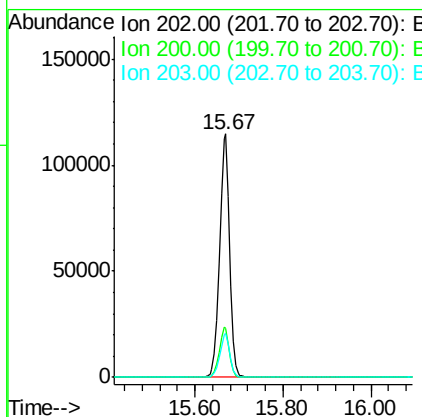
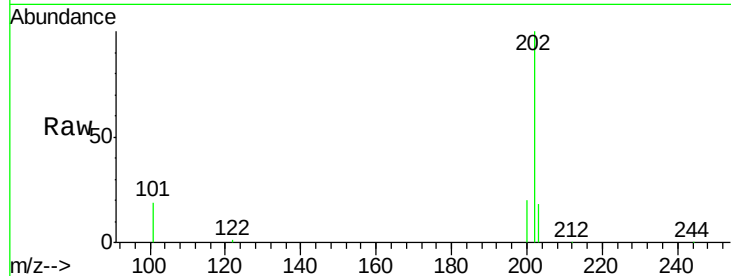
#17
 Pyrene
 Concen: 9.71 ng
 RT: 15.67 min Scan# 2665
 Delta R.T. 0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

Tgt Ion:	202	Resp:	180516
Ion Ratio	Lower	Upper	
202	100		
200	20.4	16.2	24.2
203	17.8	13.8	20.8

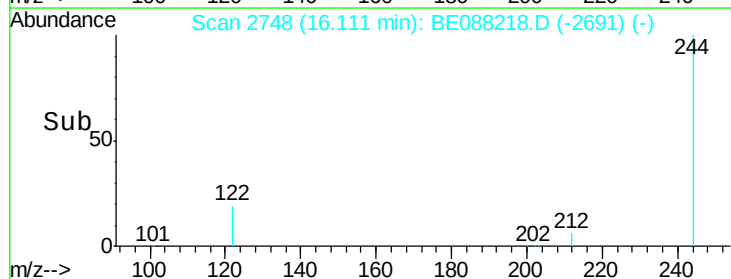
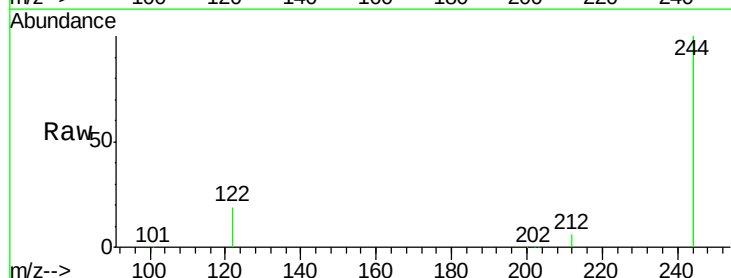
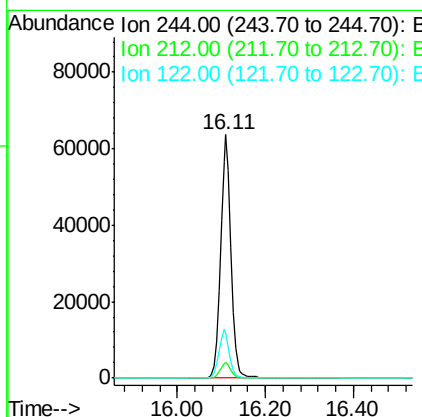
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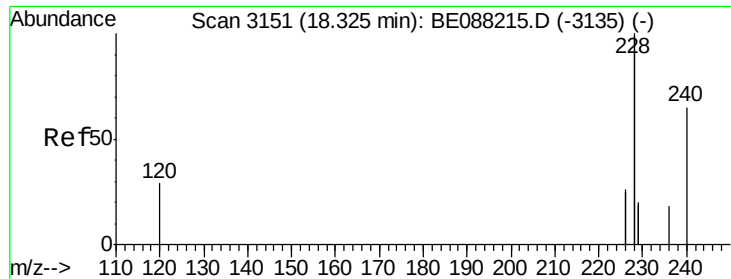
mohammad
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#18
 Terphenyl-d14
 Concen: 9.25 ng
 RT: 16.11 min Scan# 2748
 Delta R.T. 0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Tgt Ion:	244	Resp:	102629
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.4	8.2
122	18.6	16.7	25.1





#19

Benzo(a)anthracene

Concen: 10.16 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088218.D

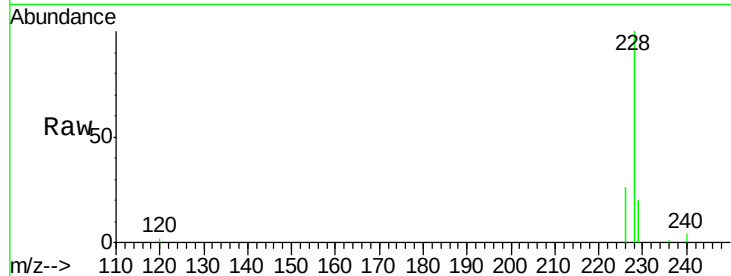
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

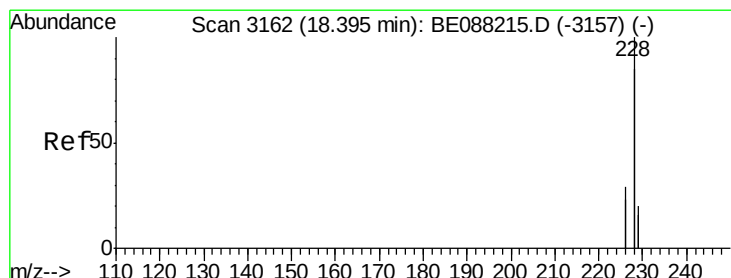
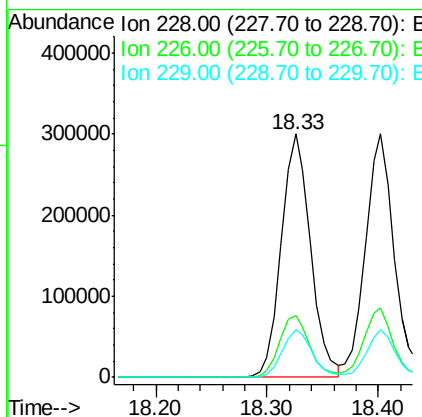
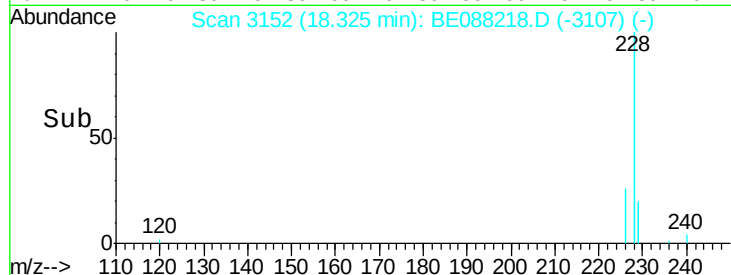
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Tgt	Ion	Ratio	Lower	Upper
228	100			
226	25.6	20.5	30.7	
229	19.6	16.1	24.1	

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#20

Chrysene

Concen: 9.18 ng

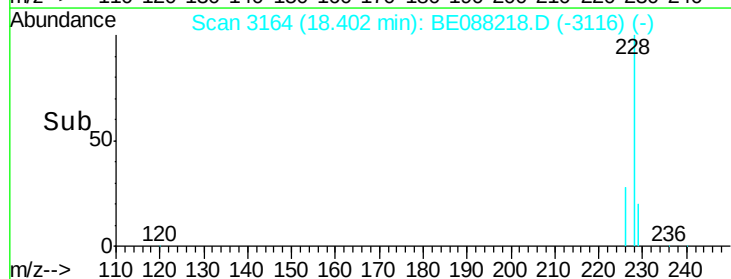
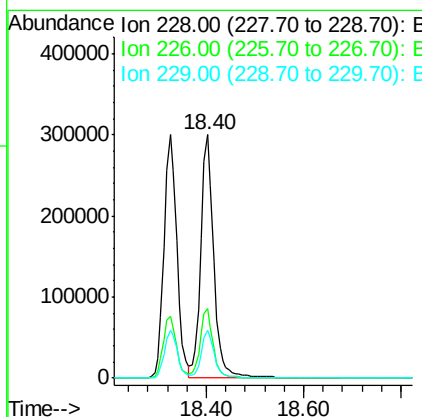
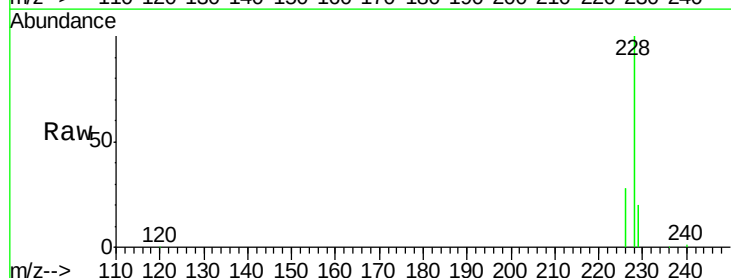
RT: 18.40 min Scan# 3164

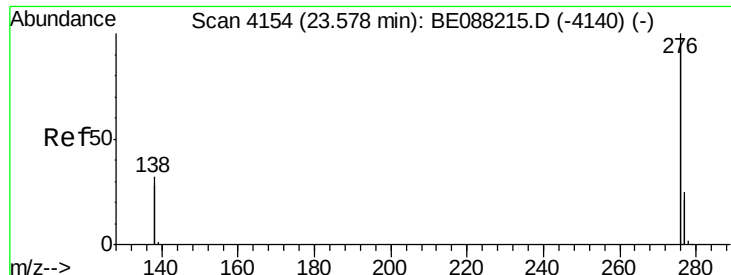
Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	28.4	23.3	34.9	
229	19.6	15.6	23.4	





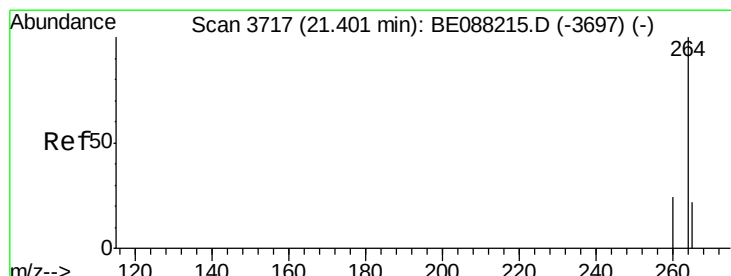
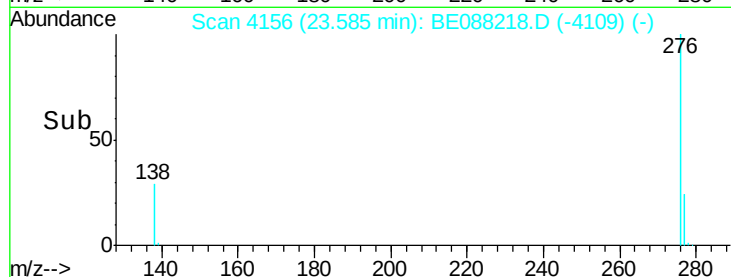
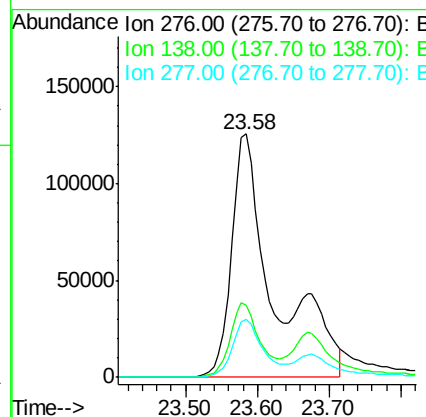
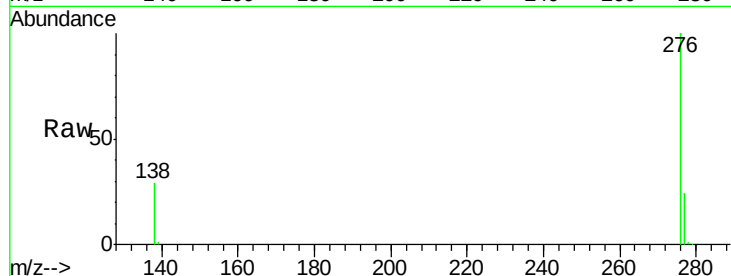
#21
 Indeno(1,2,3-cd)pyrene
 Concen: 8.06 ng m
 RT: 23.58 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	517415		
138	21.4	13.9	20.9#	
277	17.0	10.7	16.1#	

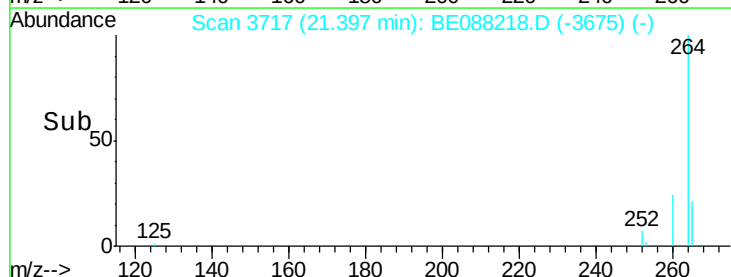
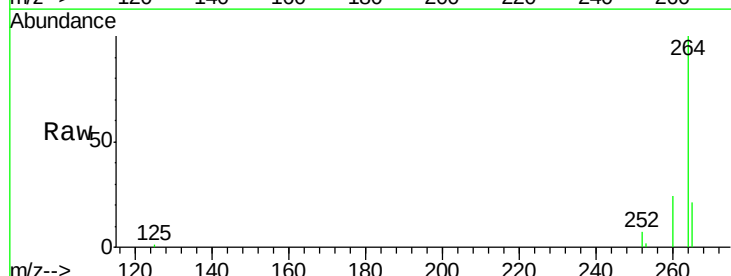
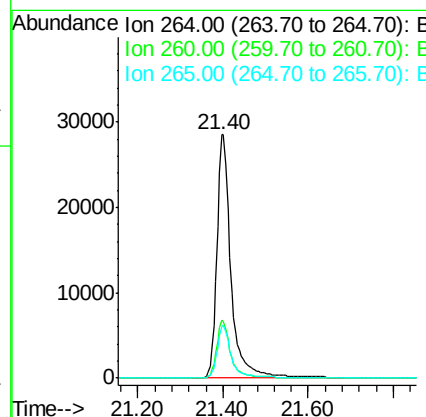
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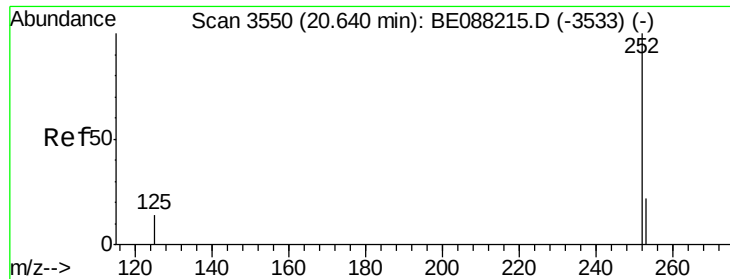
mohammad
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#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3717
 Delta R.T. -0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	63342		
260	23.8	19.0	28.4	
265	21.3	17.4	26.2	





#23

Benzo(b)fluoranthene

Concen: 8.83 ng

RT: 20.65 min Scan# 3552

Delta R.T. 0.01 min

Lab File: BE088218.D

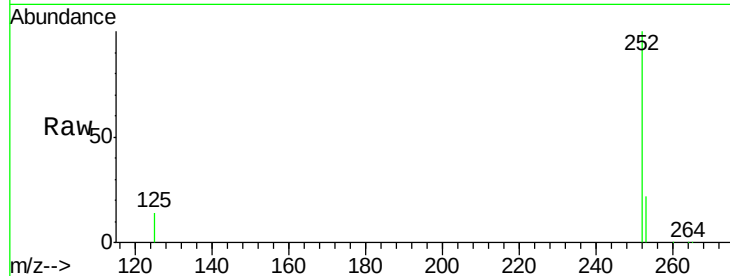
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

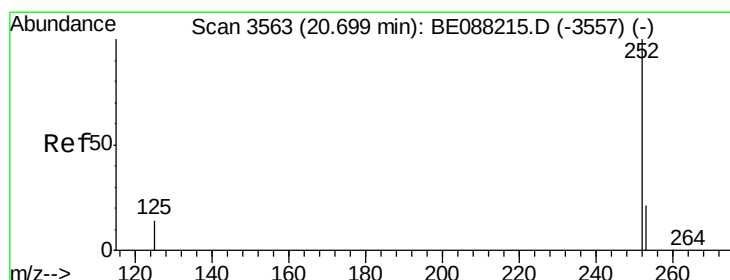
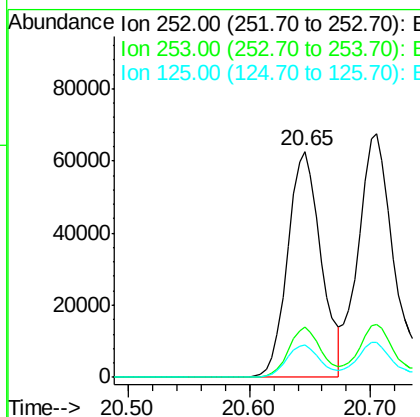
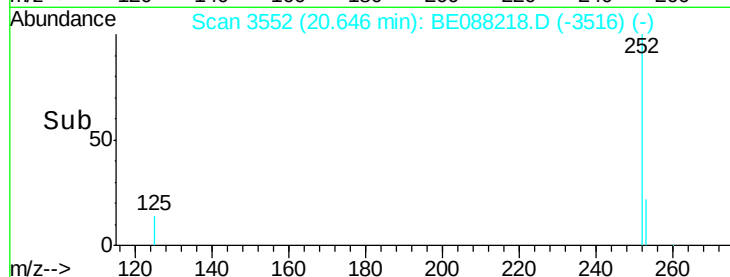
PB79823BS



Tgt Ion:	252	Resp:	119411
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.9	26.9
125	14.2	12.2	18.2

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#24

Benzo(k)fluoranthene

Concen: 9.16 ng

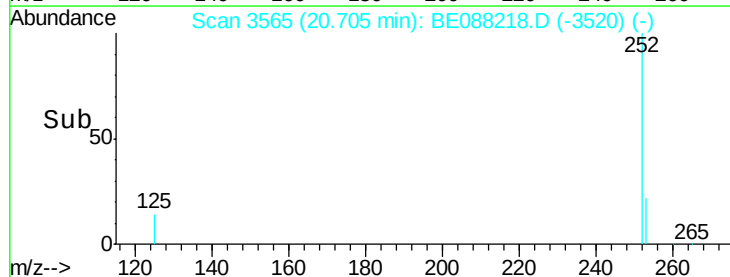
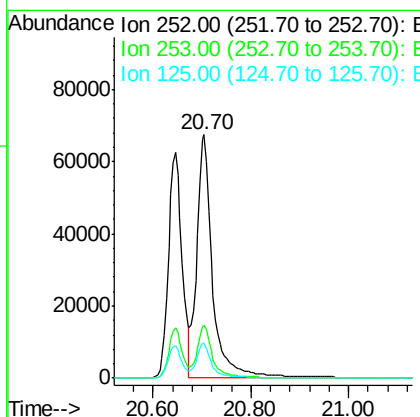
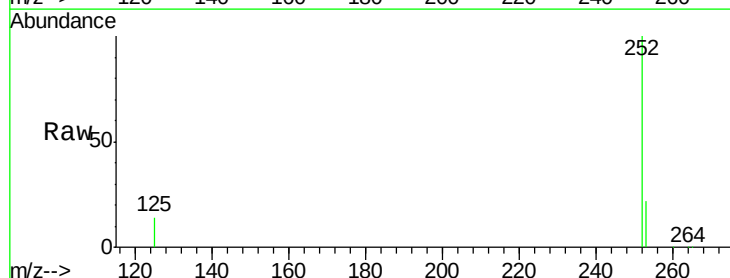
RT: 20.70 min Scan# 3565

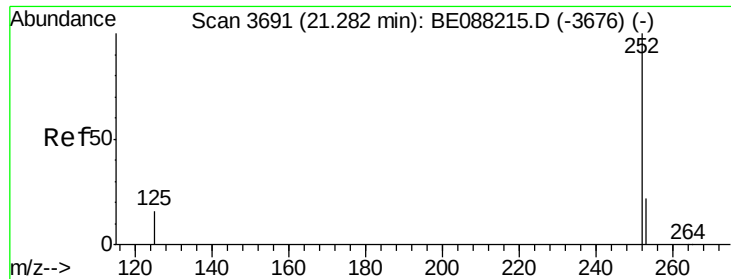
Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt Ion:	252	Resp:	149779
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.6	26.4
125	14.1	12.1	18.1





#25

Benzo(a)pyrene

Concen: 9.04 ng

RT: 21.29 min Scan# 3693

Delta R.T. 0.01 min

Lab File: BE088218.D

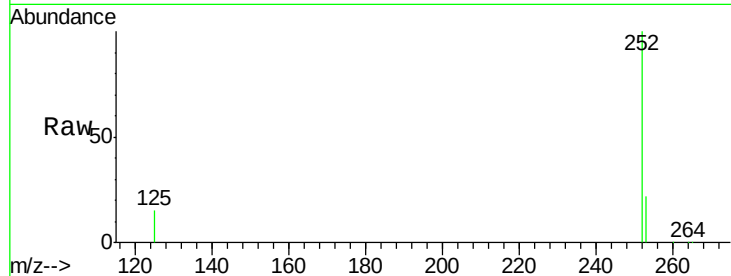
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

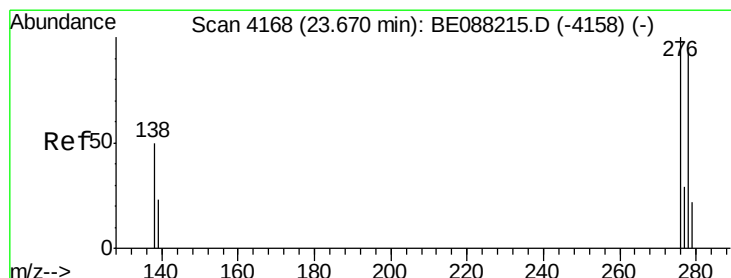
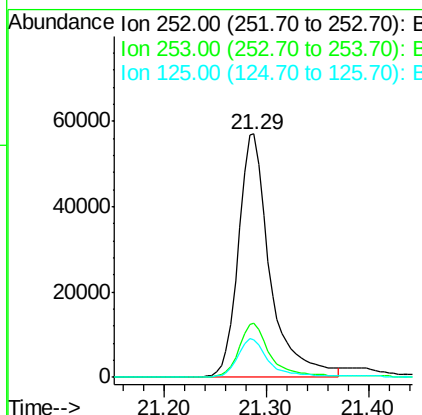
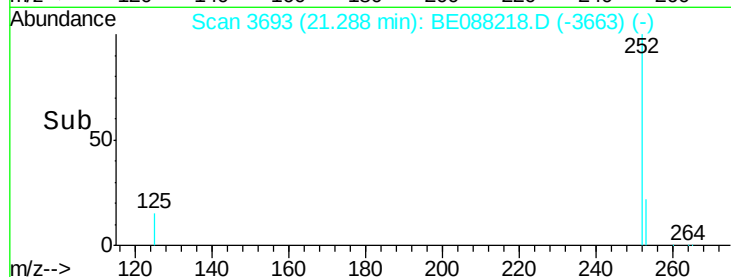
PB79823BS



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	15.4	13.5	20.3

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#26

Dibenzo(a,h)anthracene

Concen: 8.24 ng

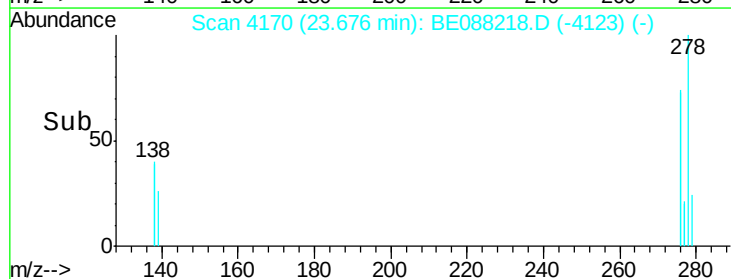
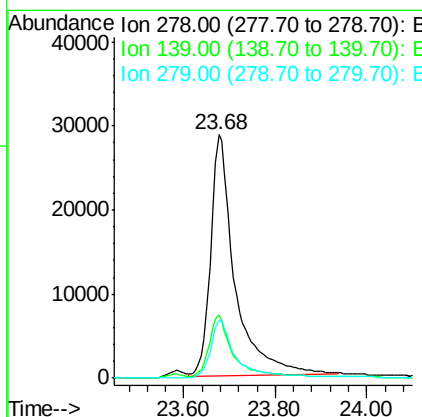
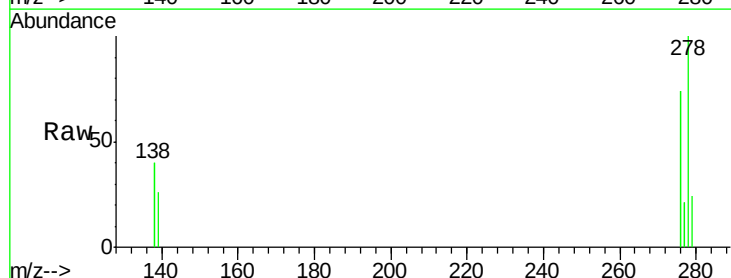
RT: 23.68 min Scan# 4170

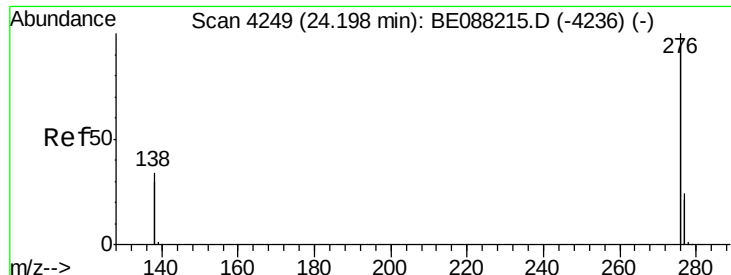
Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.7	22.1	33.1
279	23.7	20.2	30.2





#27

Benzo(g,h,i)perylene

Concen: 9.85 ng

RT: 24.21 min Scan# 4252

Delta R.T. 0.01 min

Lab File: BE088218.D

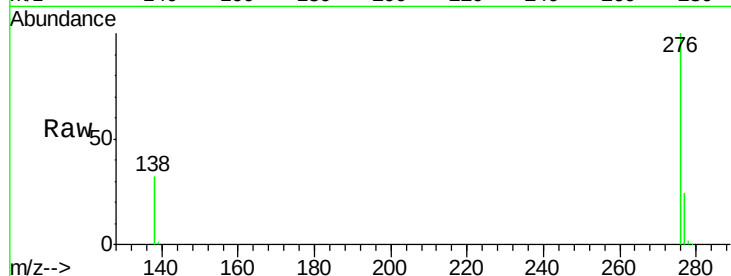
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS



Tgt	Ion	276	Resp	500026
Ion	Ratio	100	Lower	Upper
276	100			
277	23.8	19.4	29.2	
138	32.3	27.3	40.9	

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