

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088230.D
 Acq On : 25 Oct 2014 3:54
 Operator : TP/JJ
 Sample : PB79839BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79839BS

Manual Integrations
 APPROVED

mohammad
 10/28/2014 12:22:50 PM

Quant Time: Oct 27 14:03:41 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	24984	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	100030	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	55333	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	114753	5.00	ng	0.00
16) Chrysene-d12	18.35	240	64946	5.00	ng	0.00
22) Perylene-d12	21.40	264	50681	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	49524	6.66	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	98616	6.39	ng	0.00
18) Terphenyl-d14	16.11	244	93164	8.76	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.29	88	25147	7.22	ng	97
5) Naphthalene	8.70	128	144067	7.08	ng	98
6) 2-Methylnaphthalene	9.55	142	95100	7.75	ng	96
9) Acenaphthylene	10.65	152	537357	6.50	ng	99
10) Acenaphthene	10.86	154	81163	6.20	ng	99
11) Fluorene	11.52	166	94111	7.05	ng	100
13) Phenanthrene	12.97	178	688811	6.22	ng	97
14) Anthracene	13.06	178	570971	6.99	ng	99
15) Fluoranthene	15.21	202	131513	7.83	ng	99
17) Pyrene	15.67	202	140094	7.86	ng	99
19) Benzo(a)anthracene	18.32	228	410099	8.02	ng	99
20) Chrysene	18.40	228	420937	7.25	ng	100
21) Indeno(1,2,3-cd)pyrene	23.58	276	262533m	4.38	ng	
23) Benzo(b)fluoranthene	20.64	252	79261	7.35	ng	98
24) Benzo(k)fluoranthene	20.70	252	100508	7.68	ng	99
25) Benzo(a)pyrene	21.28	252	75736	7.09	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	55005	5.41	ng	96
27) Benzo(g,h,i)perylene	24.20	276	258845	6.37	ng	97

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

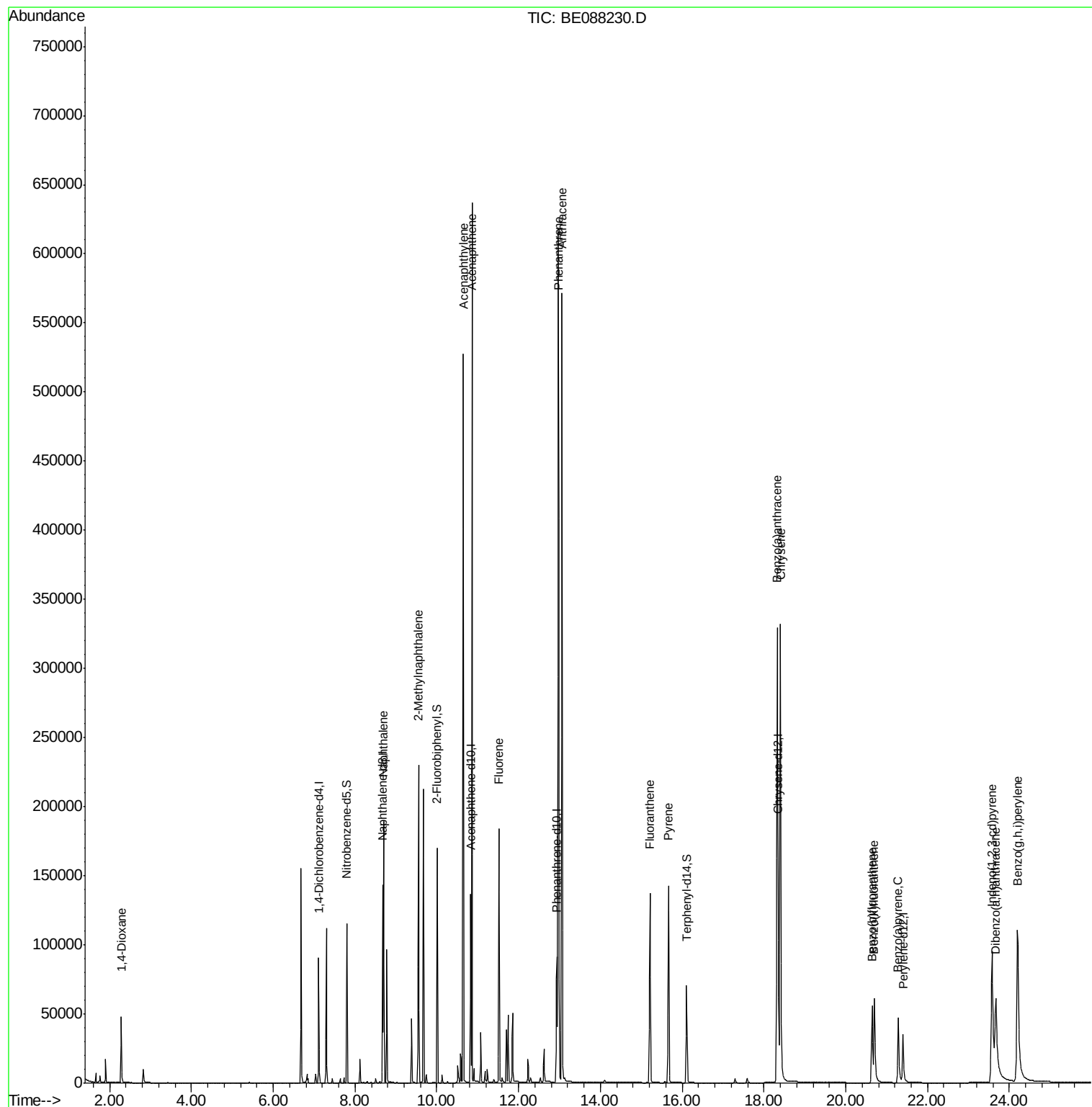
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
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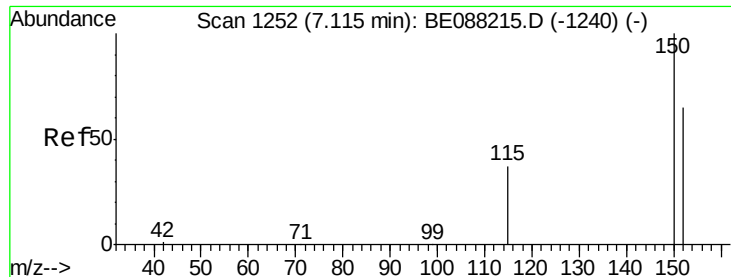
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088230.D

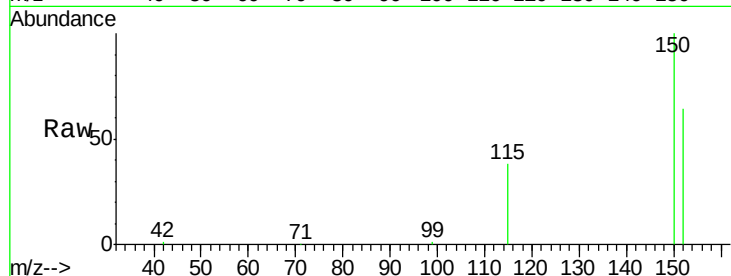
Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS



Tgt Ion: 152 Resp: 24984

Ion Ratio Lower Upper

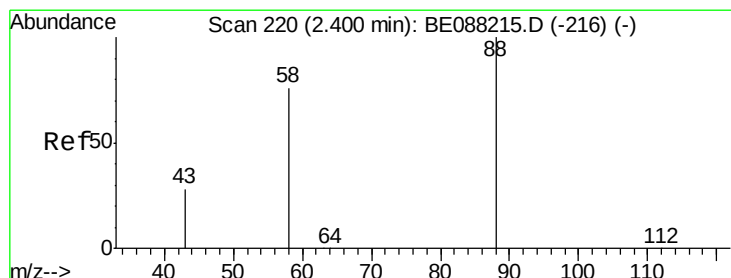
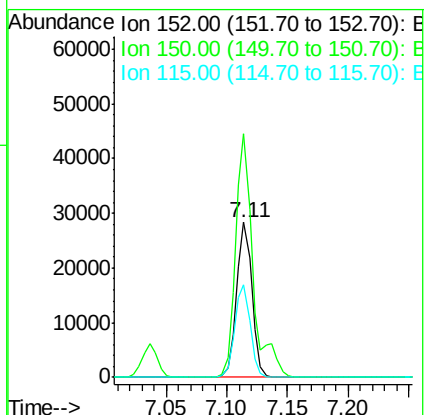
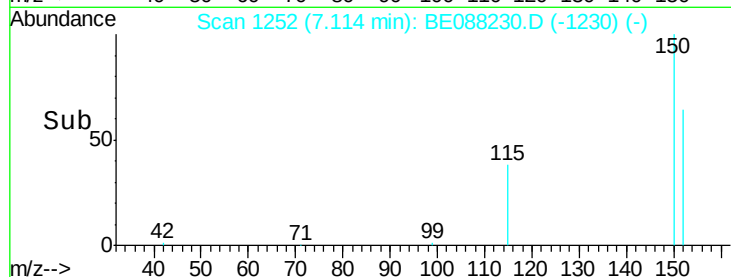
152 100

150 157.1 123.2 184.8

115 59.8 45.3 67.9

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#2

1,4-Dioxane

Concen: 7.22 ng

RT: 2.29 min Scan# 196

Delta R.T. -0.11 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

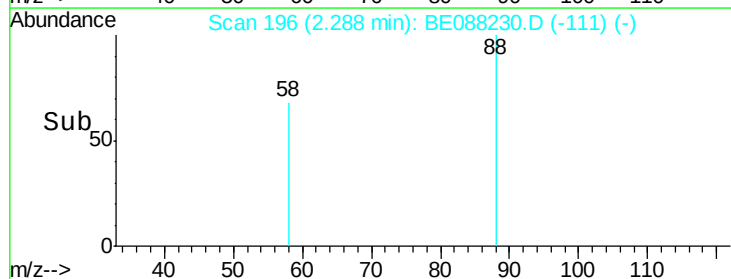
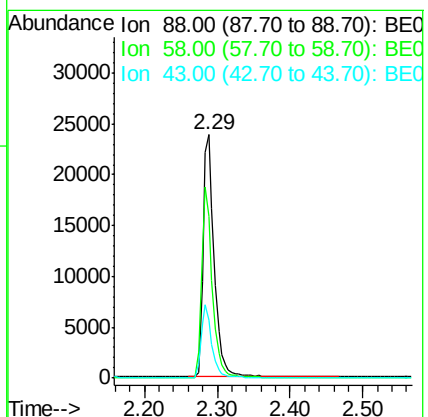
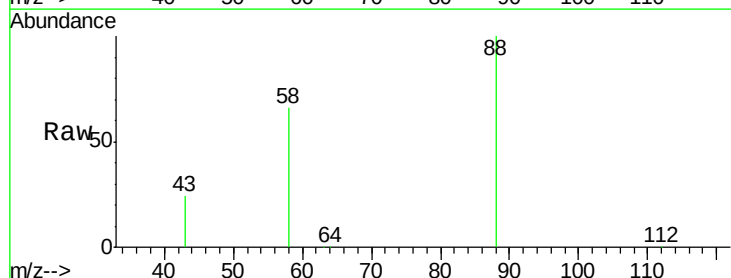
Tgt Ion: 88 Resp: 25147

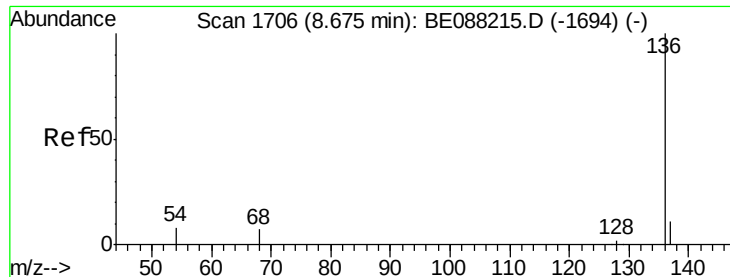
Ion Ratio Lower Upper

88 100

58 76.4 59.0 88.4

43 28.8 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: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

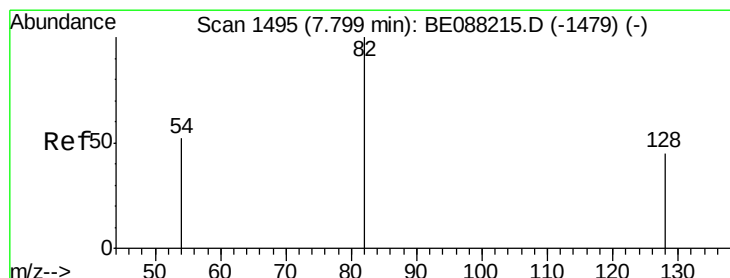
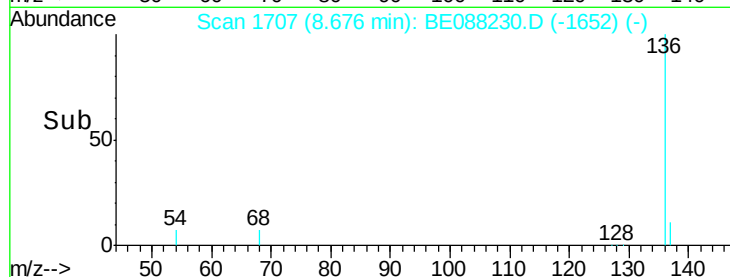
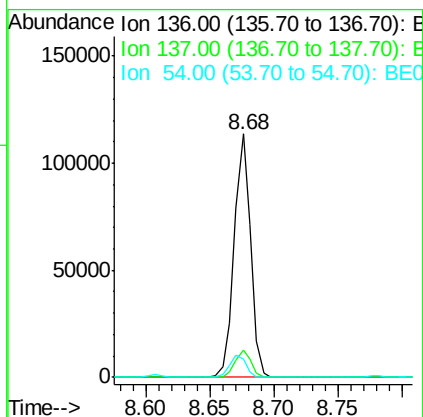
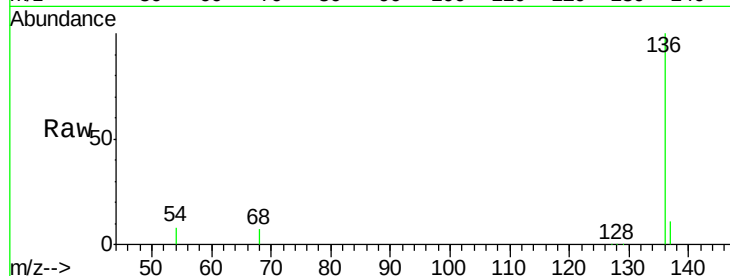
ClientSampleId :

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Tgt Ion	Ratio	Resp	Lower	Upper
136	100	100030		
137	11.1	8.7	13.1	
54	7.5	6.1	9.1	



#4

Nitrobenzene-d5

Concen: 6.66 ng

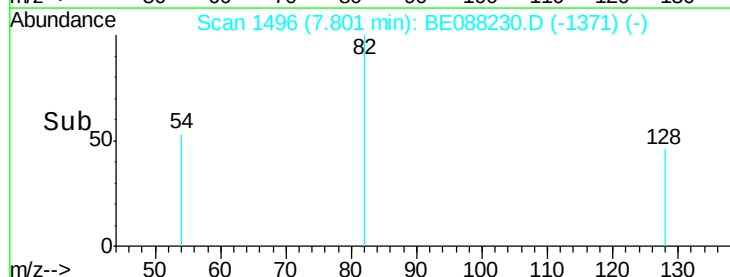
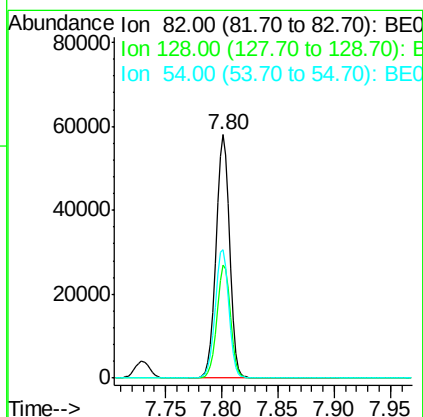
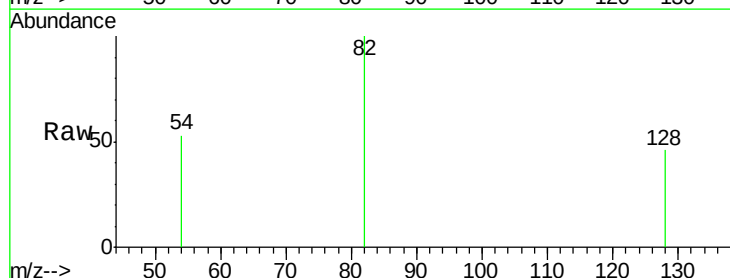
RT: 7.80 min Scan# 1496

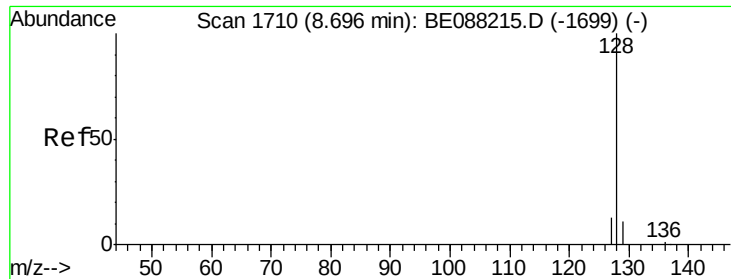
Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	49524		
128	46.5	36.2	54.2	
54	53.0	41.8	62.8	





#5

Naphthalene

Concen: 7.08 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088230.D

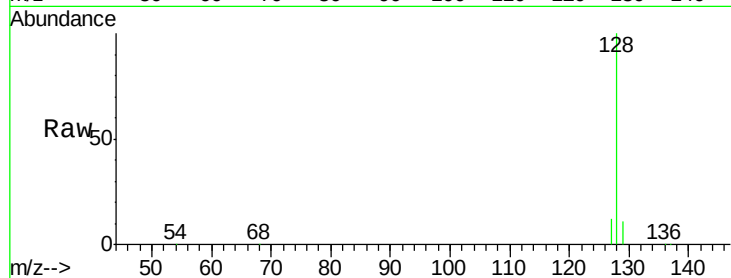
Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

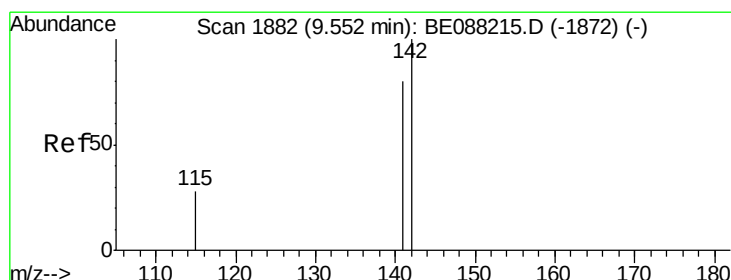
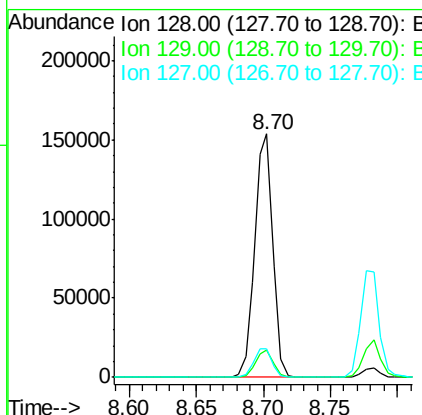
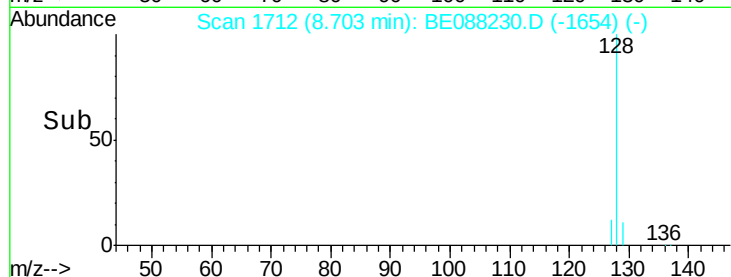
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Tgt Ion:	128	Resp:	144067
Ion Ratio	Lower	Upper	
128	100		
129	11.3	8.6	12.8
127	11.8	10.4	15.6

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#6

2-Methylnaphthalene

Concen: 7.75 ng

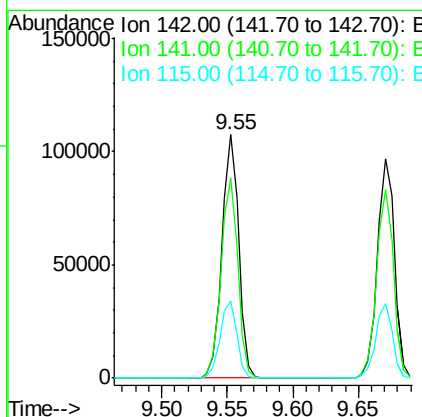
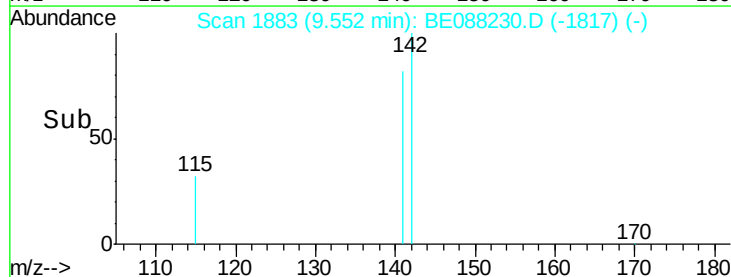
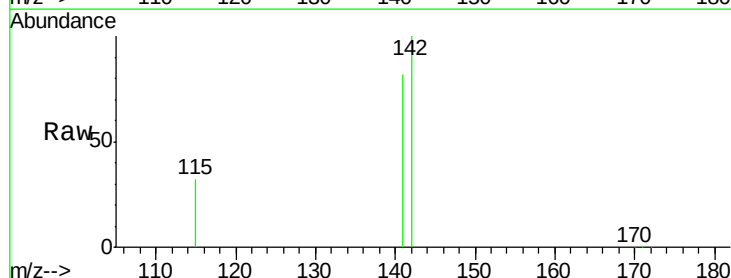
RT: 9.55 min Scan# 1883

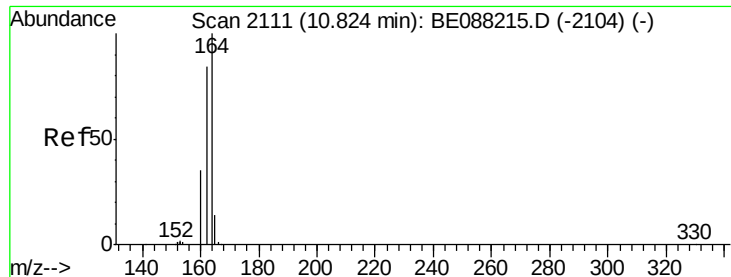
Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Tgt Ion:	142	Resp:	95100
Ion Ratio	Lower	Upper	
142	100		
141	82.0	63.7	95.5
115	31.6	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: BE088230.D

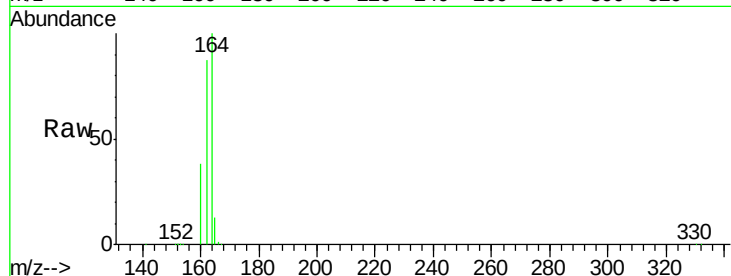
Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

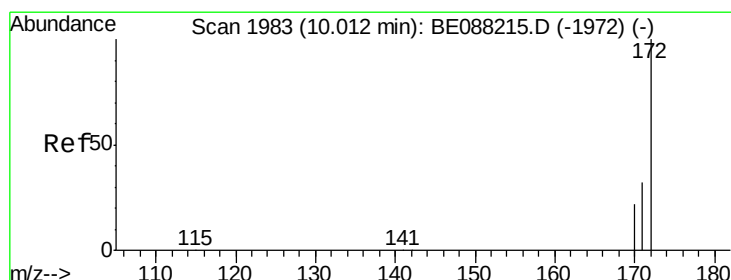
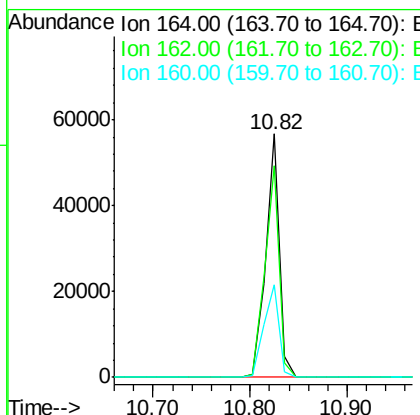
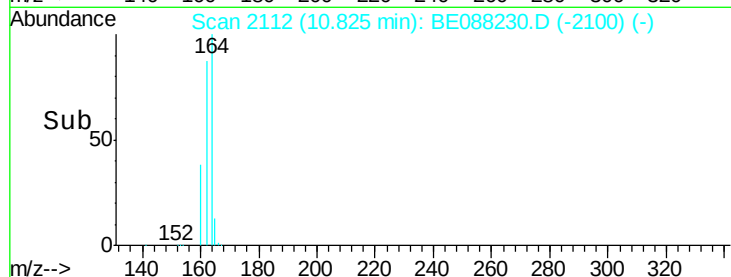
PB79839BS



Tgt Ion:	164	Resp:	55333
Ion Ratio	Lower	Upper	
164	100		
162	87.1	67.4	101.0
160	38.0	27.7	41.5

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#8

2-Fluorobiphenyl

Concen: 6.39 ng

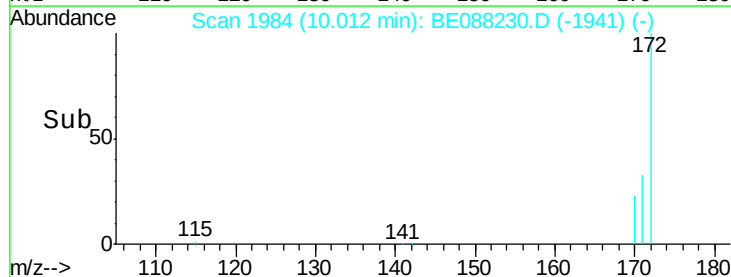
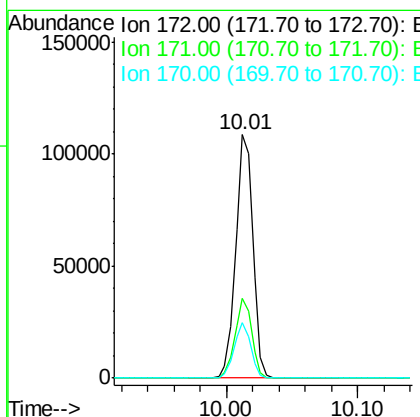
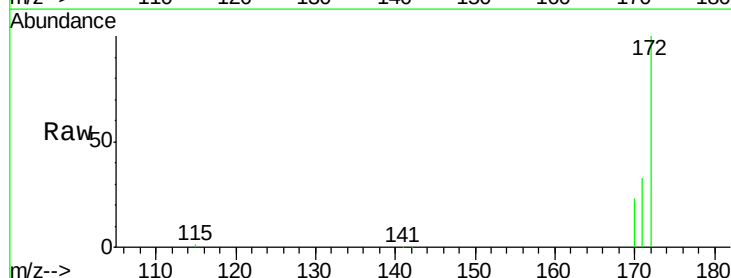
RT: 10.01 min Scan# 1984

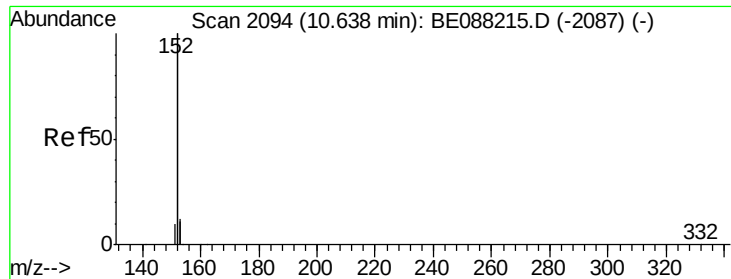
Delta R.T. 0.00 min

Lab File: BE088230.D

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Tgt Ion:	172	Resp:	98616
Ion Ratio	Lower	Upper	
172	100		
171	32.6	25.8	38.6
170	23.0	17.4	26.0





#9

Acenaphthylene

Concen: 6.50 ng

RT: 10.65 min Scan# 2096

Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

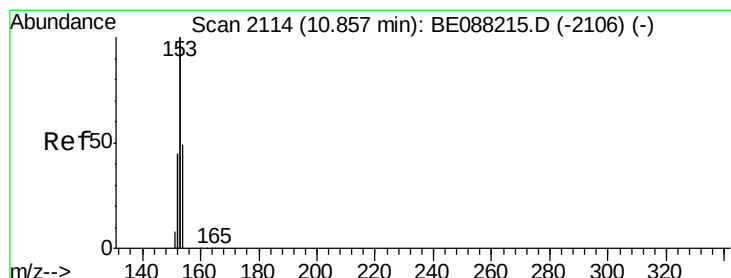
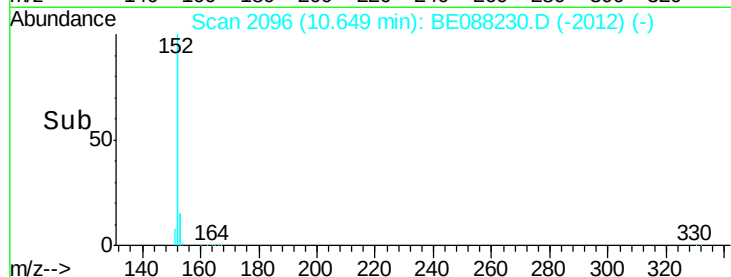
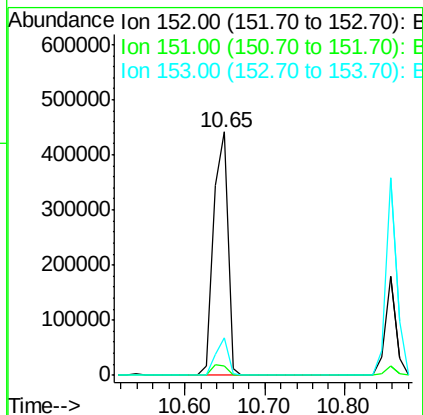
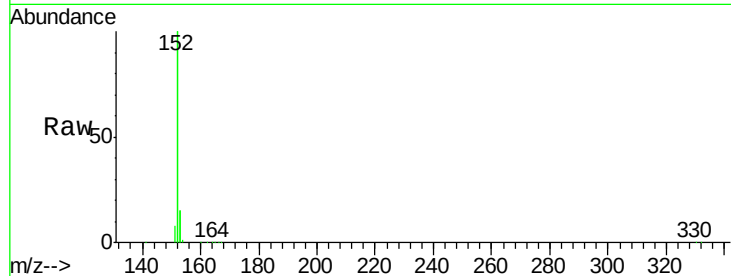
ClientSampleId :

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Tgt	Ion	Ratio	Lower	Upper
152	100			
151	4.6	3.7	5.5	
153	13.3	10.3	15.5	



#10

Acenaphthene

Concen: 6.20 ng

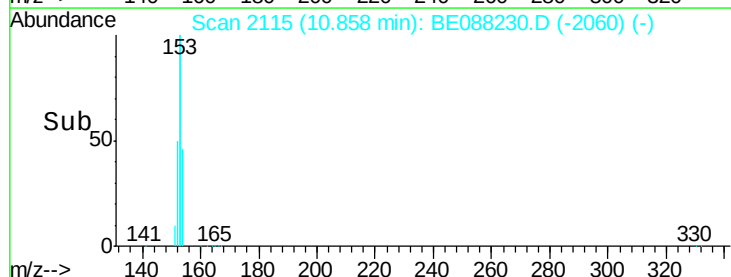
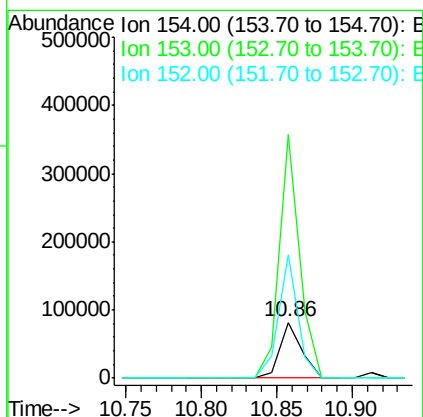
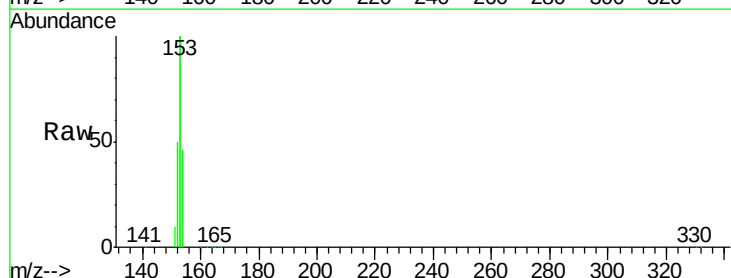
RT: 10.86 min Scan# 2115

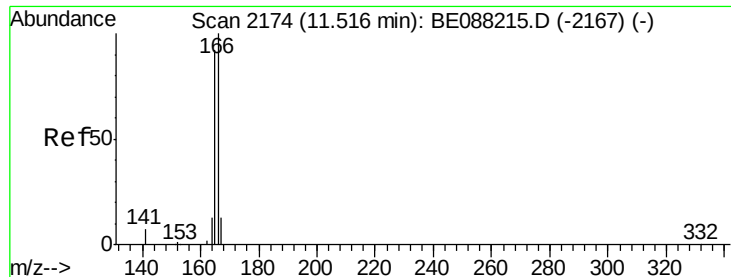
Delta R.T. 0.00 min

Lab File: BE088230.D

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Tgt	Ion	Ratio	Lower	Upper
154	100			
153	409.1	326.0	489.0	
152	199.0	155.6	233.4	





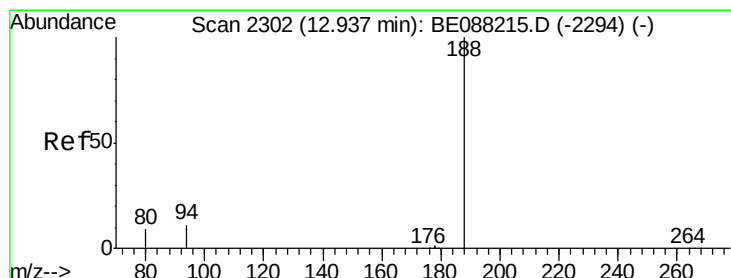
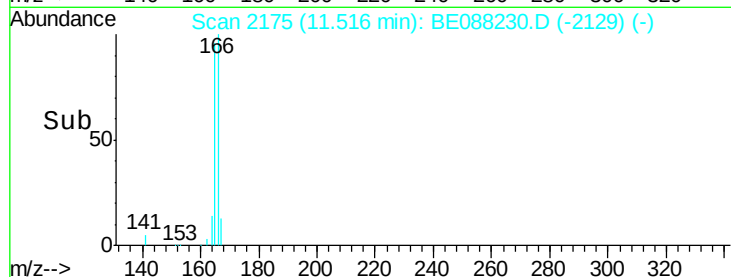
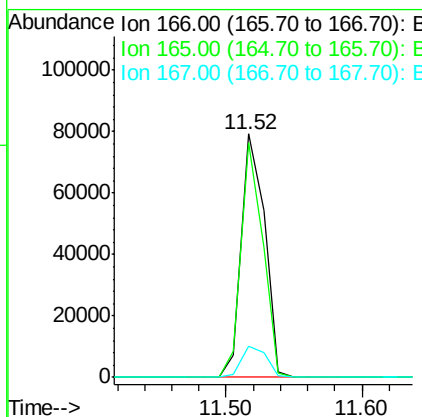
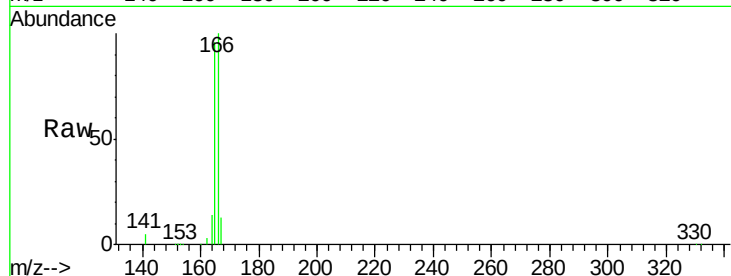
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 Fluorene
 Concen: 7.05 ng
 RT: 11.52 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

Instrument :
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 ClientSampleId :
 PB79839BS

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.1	71.8	107.6
167	13.6	10.7	16.1

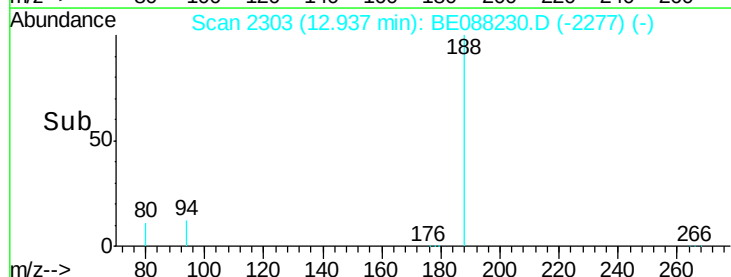
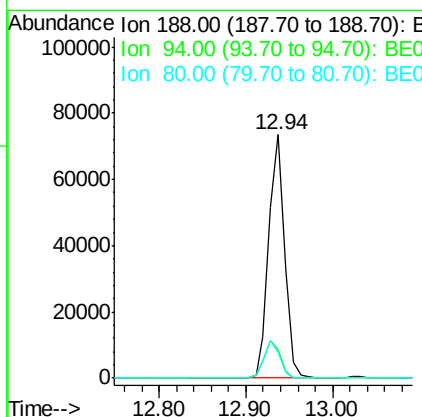
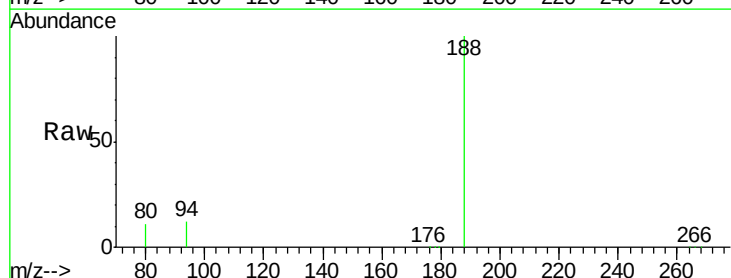
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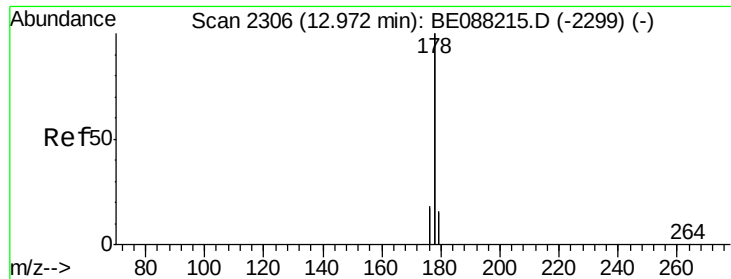
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#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.94 min Scan# 2303
 Delta R.T. -0.00 min
 Lab File: BE088230.D
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Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.8	8.5	12.7
80	10.6	7.4	11.0





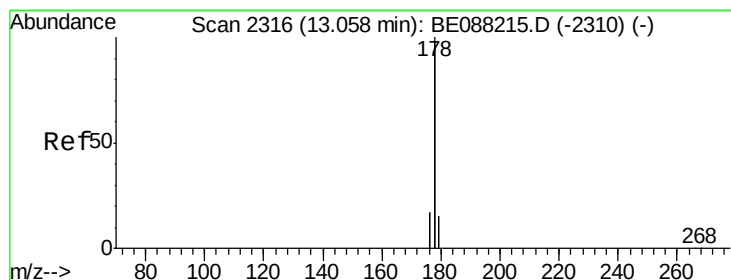
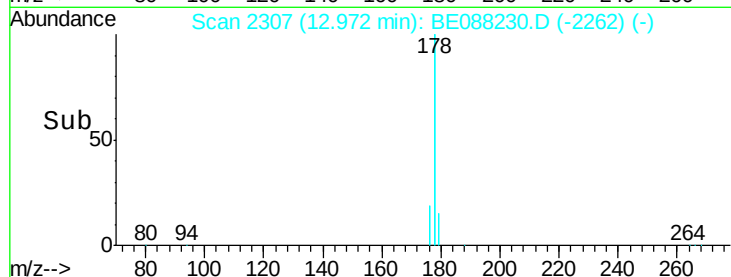
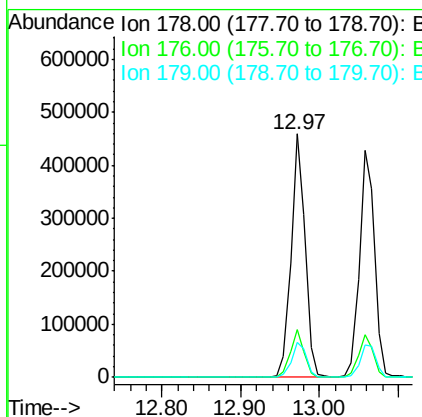
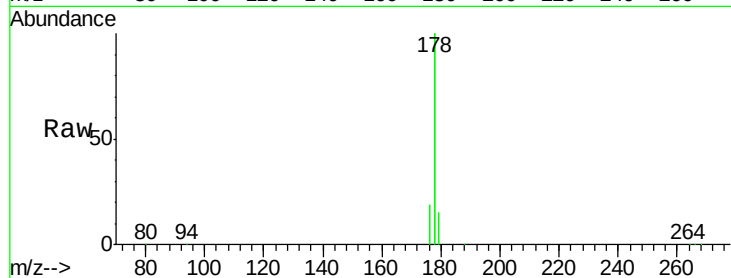
#13
Phenanthrene
Concen: 6.22 ng
RT: 12.97 min Scan# 2307
Delta R.T. -0.00 min
Lab File: BE088230.D
Acq: 25 Oct 2014 3:54

Instrument :
BNA_E
ClientSampleId :
PB79839BS

Tgt Ion	Ratio	Lower	Upper
178	100		
176	15.4	14.0	21.0
179	15.5	11.8	17.6

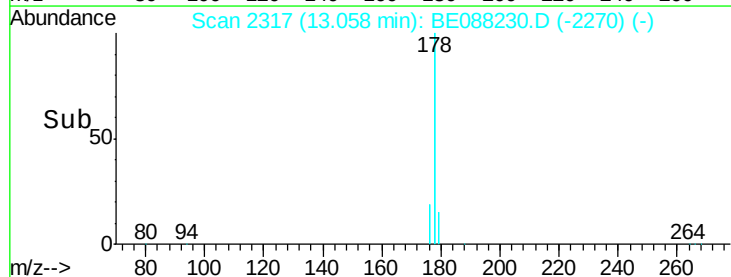
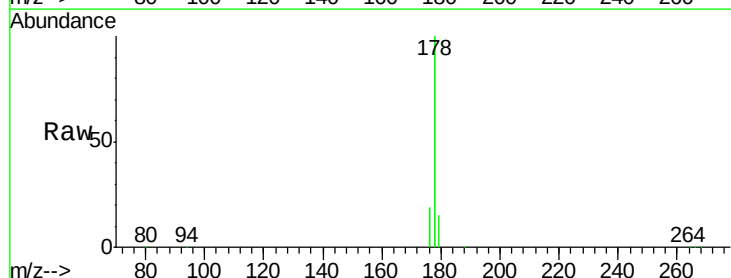
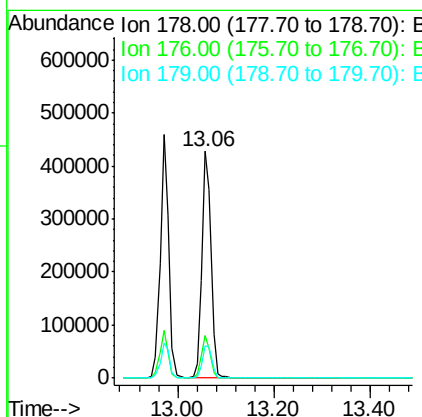
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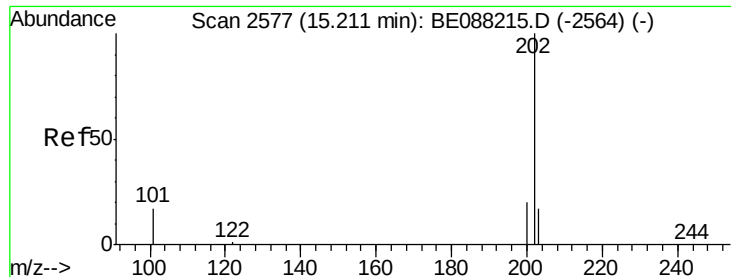
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#14
Anthracene
Concen: 6.99 ng
RT: 13.06 min Scan# 2317
Delta R.T. -0.00 min
Lab File: BE088230.D
Acq: 25 Oct 2014 3:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	15.2	12.3	18.5





#15

Fluoranthene

Concen: 7.83 ng

RT: 15.21 min Scan# 2578

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

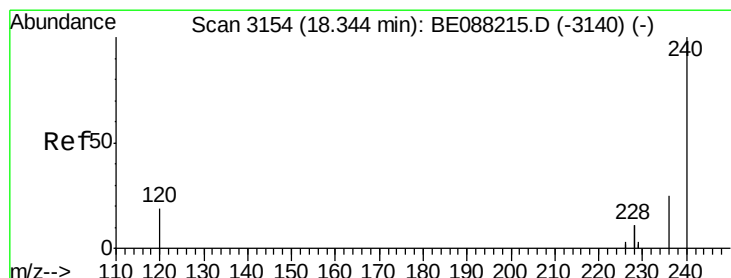
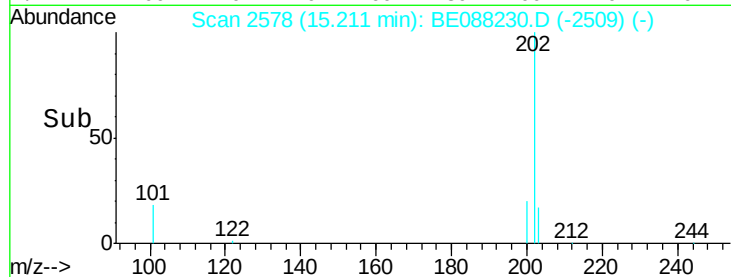
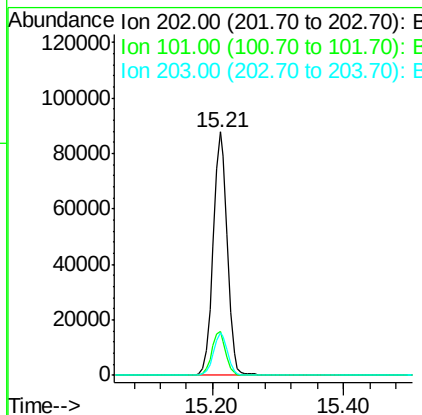
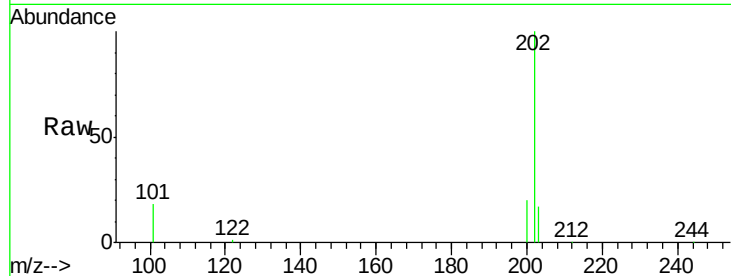
ClientSampleId :

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Tgt	Ion	202	Resp:	131513
Ion	Ratio	Lower	Upper	
202	100			
101	17.9	14.4	21.6	
203	17.3	13.4	20.2	

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#16

Chrysene-d12

Concen: 5.00 ng

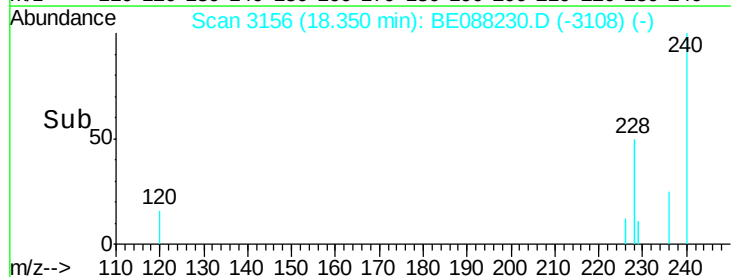
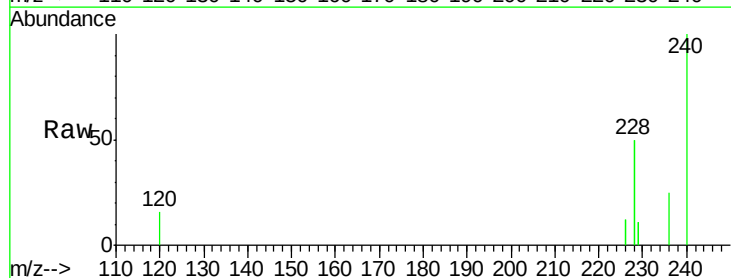
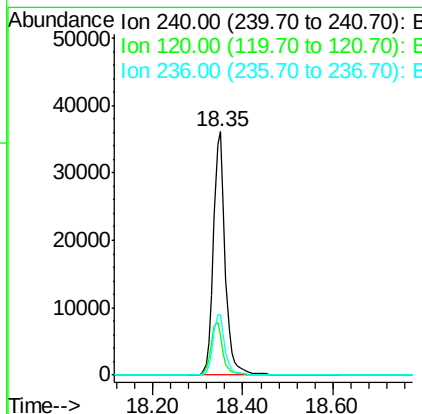
RT: 18.35 min Scan# 3156

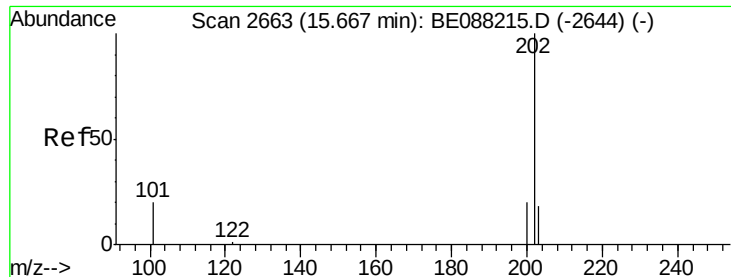
Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Tgt	Ion	240	Resp:	64946
Ion	Ratio	Lower	Upper	
240	100			
120	16.2	15.1	22.7	
236	25.1	20.1	30.1	





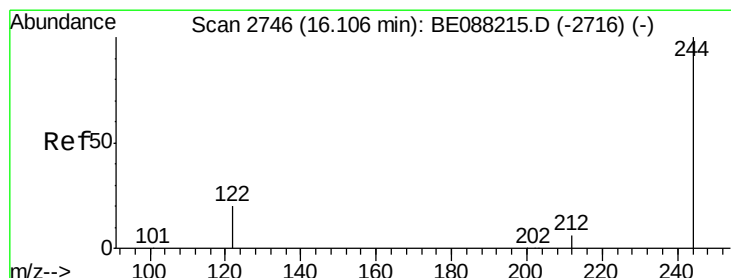
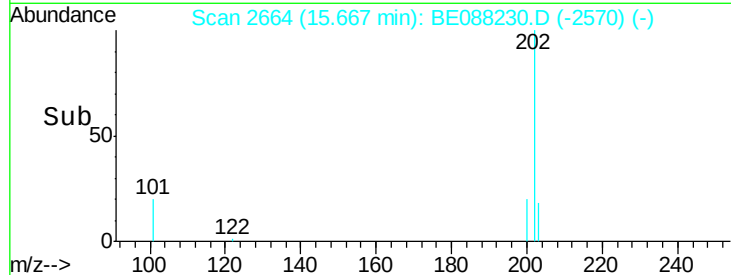
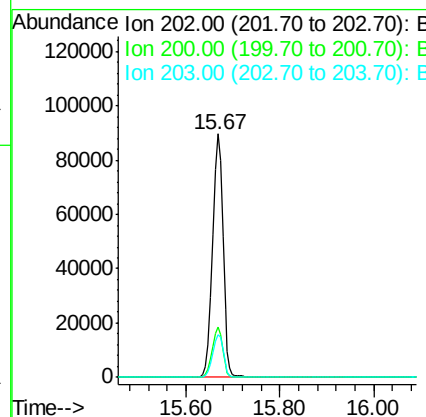
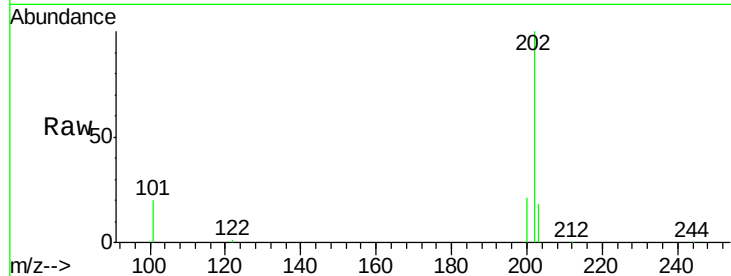
#17
 Pyrene
 Concen: 7.86 ng
 RT: 15.67 min Scan# 2664
 Delta R.T. 0.00 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

Instrument :
 BNA_E
 ClientSampleId :
 PB79839BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.3	16.2	24.2
203	17.9	13.8	20.8

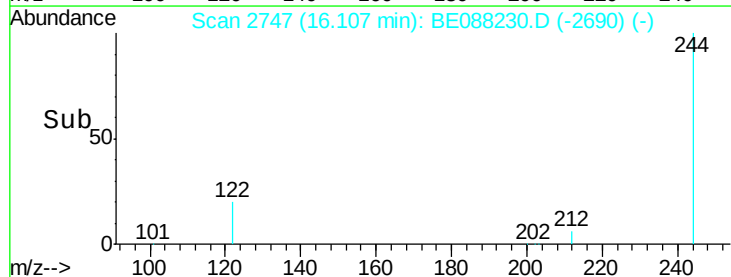
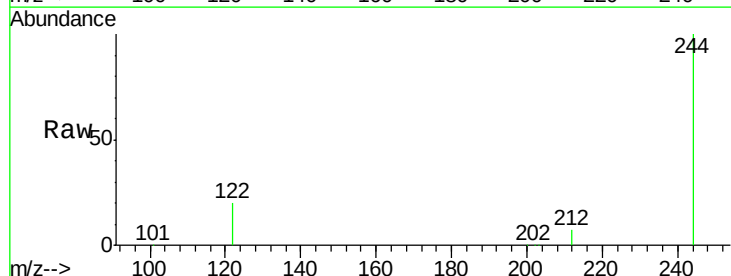
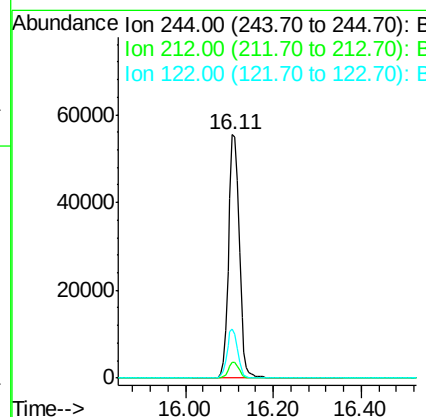
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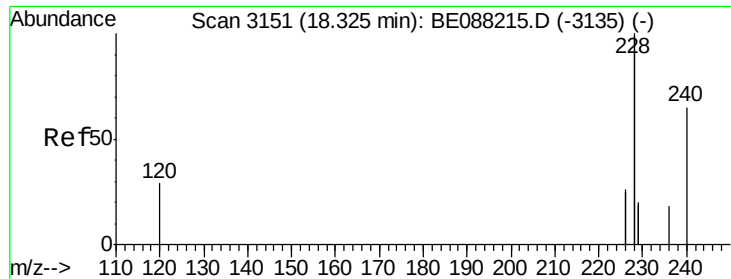
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#18
 Terphenyl-d14
 Concen: 8.76 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. 0.00 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.6	5.4	8.2
122	20.2	16.7	25.1





#19

Benzo(a)anthracene

Concen: 8.02 ng

RT: 18.32 min Scan# 3152

Delta R.T. -0.00 min

Lab File: BE088230.D

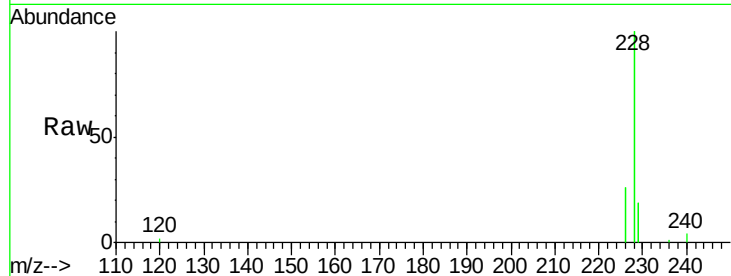
Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

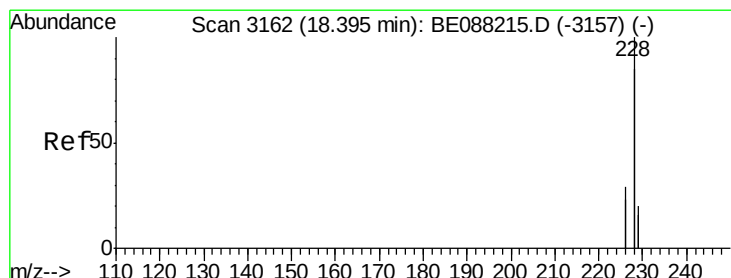
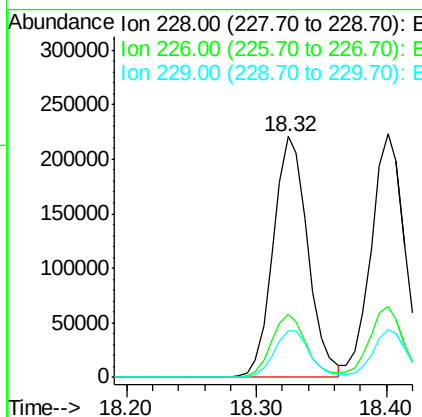
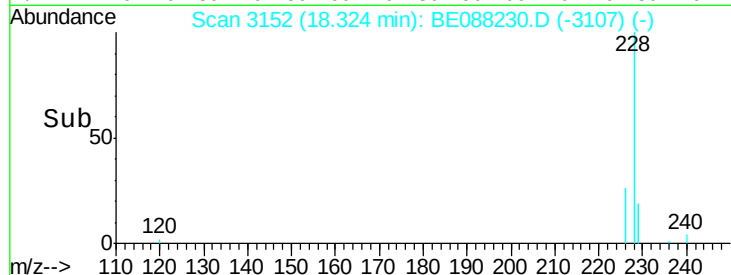
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Tgt	Ion	Ratio	Lower	Upper
228	100			
226	26.1	20.5	30.7	
229	19.4	16.1	24.1	

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#20

Chrysene

Concen: 7.25 ng

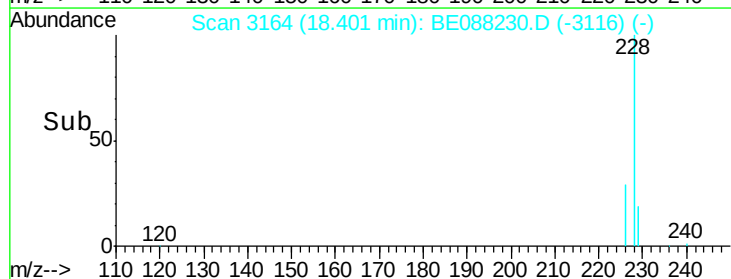
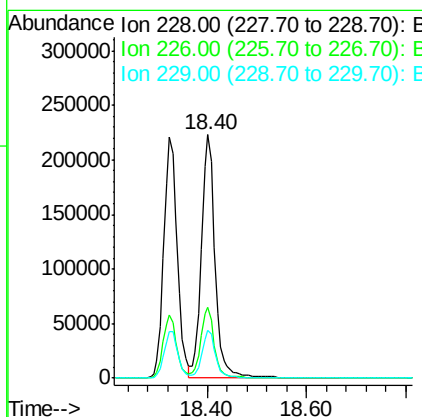
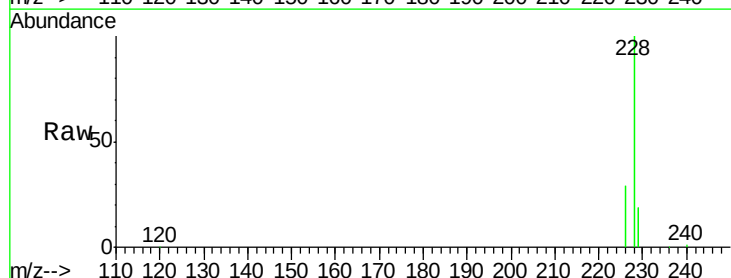
RT: 18.40 min Scan# 3164

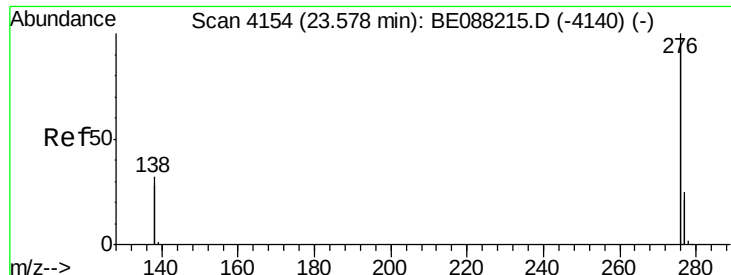
Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	28.9	23.3	34.9	
229	19.4	15.6	23.4	





#21

Indeno(1,2,3-cd)pyrene

Concen: 4.38 ng m

RT: 23.58 min Scan# 4155

Delta R.T. 0.00 min

Lab File: BE088230.D

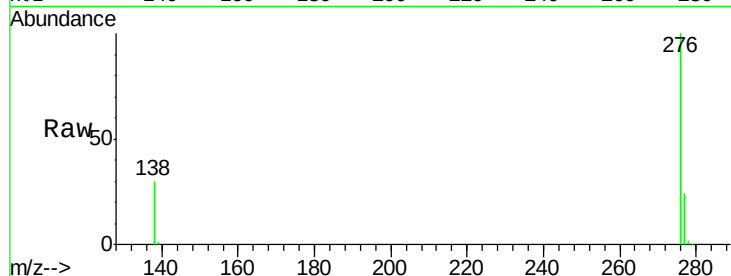
Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

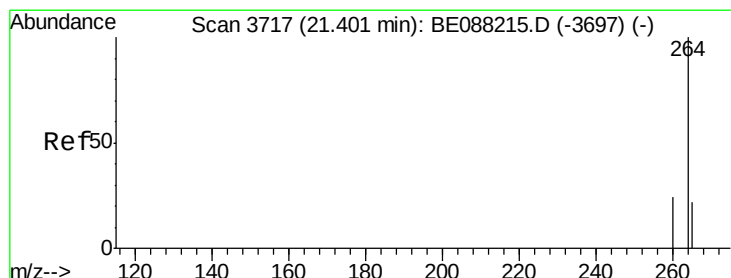
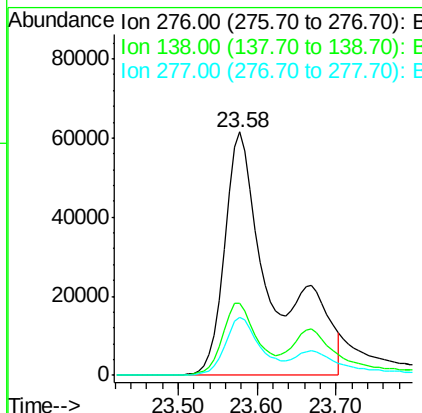
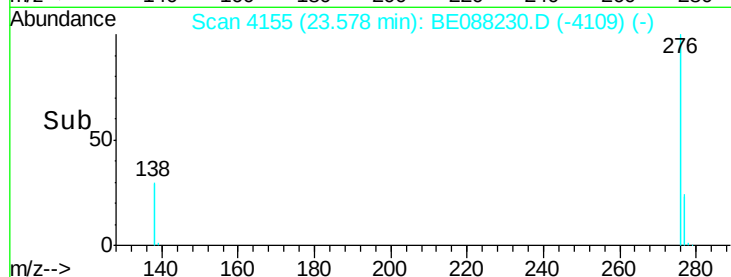
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Tgt Ion	Ratio	Resp	Lower	Upper
276	100	262533		
138	20.8		13.9	20.9
277	16.7		10.7	16.1#

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#22

Perylene-d12

Concen: 5.00 ng

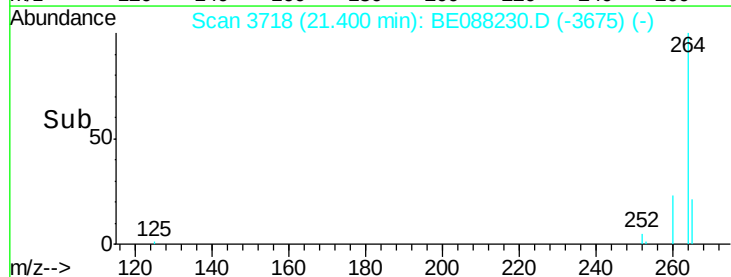
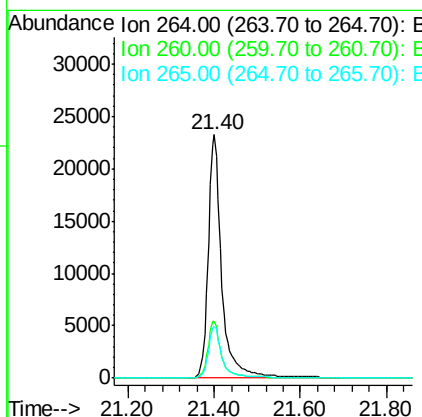
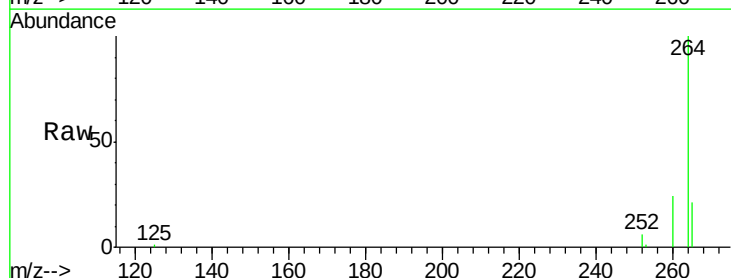
RT: 21.40 min Scan# 3718

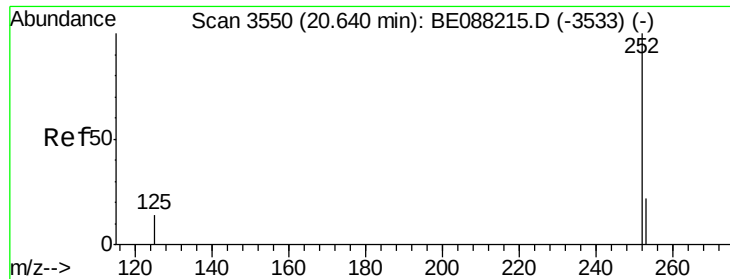
Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	50681		
260	23.5		19.0	28.4
265	21.4		17.4	26.2





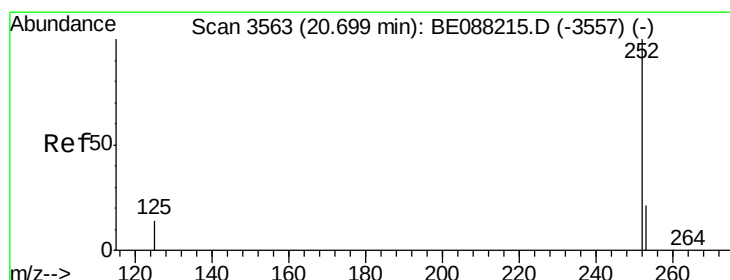
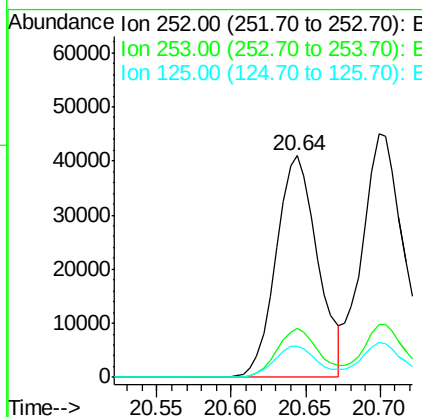
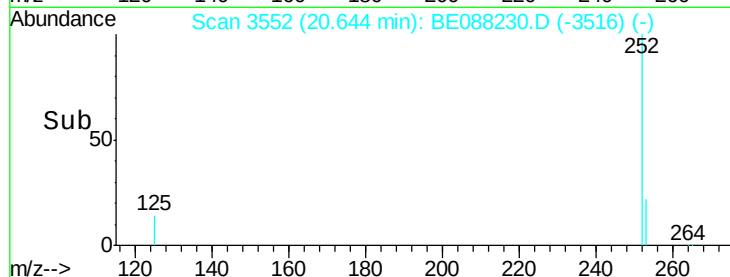
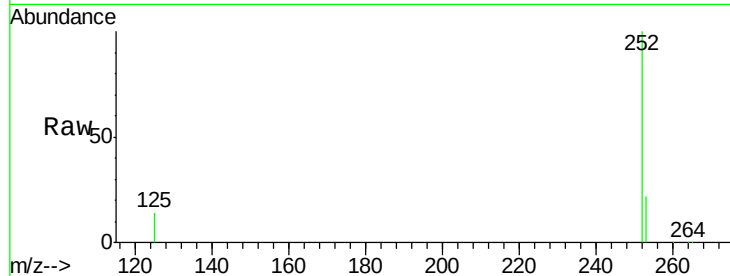
#23
Benzo(b)fluoranthene
Concen: 7.35 ng
RT: 20.64 min Scan# 3552
Delta R.T. 0.00 min
Lab File: BE088230.D
Acq: 25 Oct 2014 3:54

Instrument :
BNA_E
ClientSampleId :
PB79839BS

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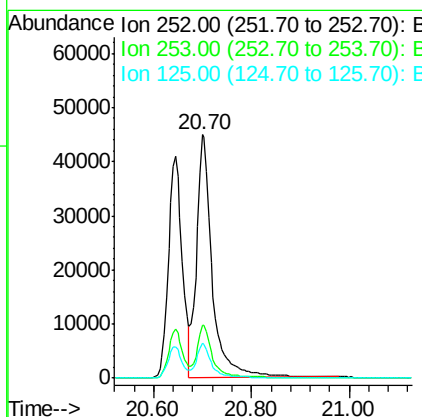
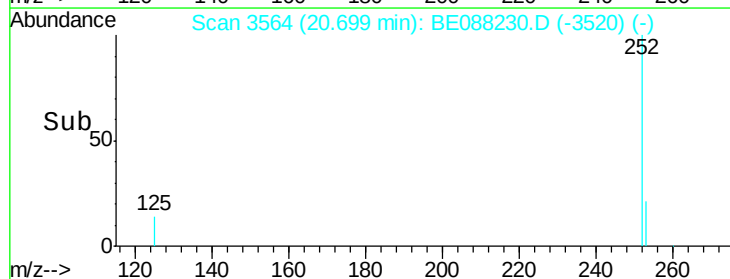
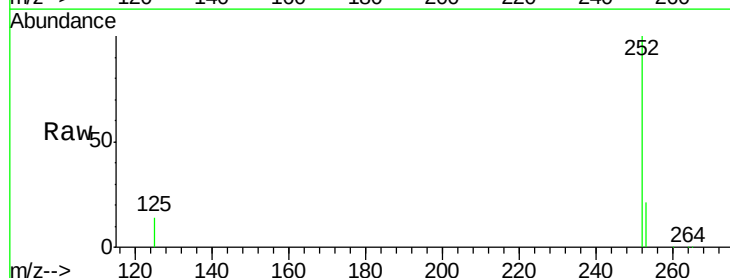
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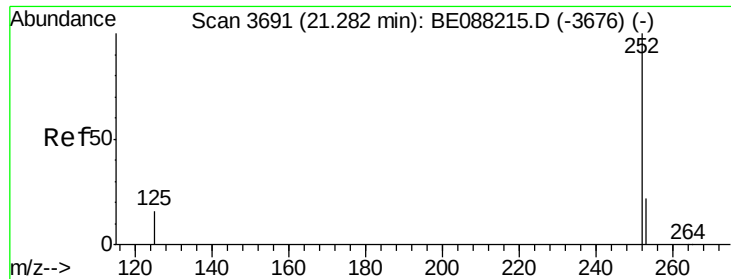
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	14.1	12.2	18.2



#24
Benzo(k)fluoranthene
Concen: 7.68 ng
RT: 20.70 min Scan# 3564
Delta R.T. -0.00 min
Lab File: BE088230.D
Acq: 25 Oct 2014 3:54

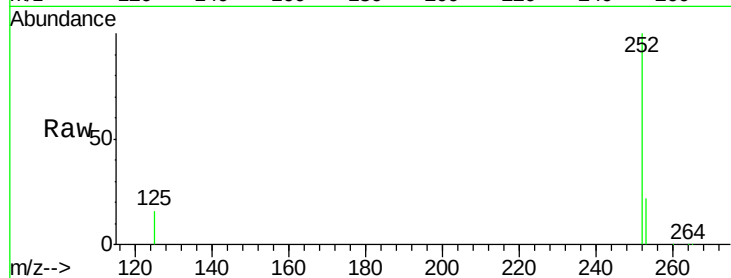
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.6	26.4
125	14.4	12.1	18.1





#25
Benzo(a)pyrene
Concen: 7.09 ng
RT: 21.28 min Scan# 3692
Delta R.T. -0.00 min
Lab File: BE088230.D
Acq: 25 Oct 2014 3:54

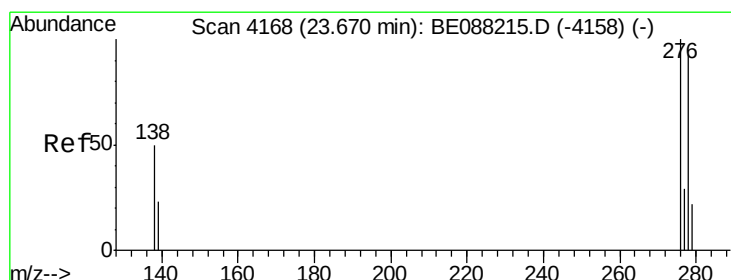
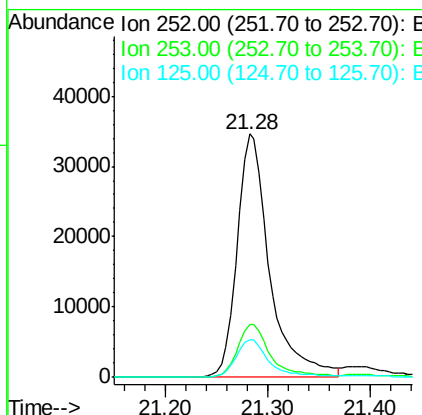
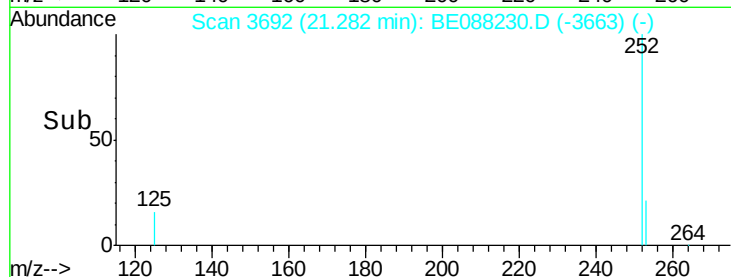
Instrument :
BNA_E
ClientSampleId :
PB79839BS



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.8
125	15.7	13.5	20.3

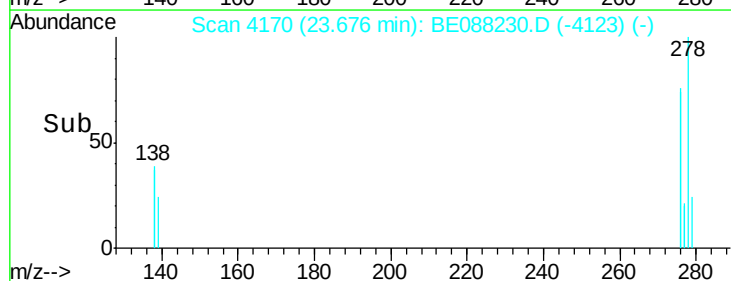
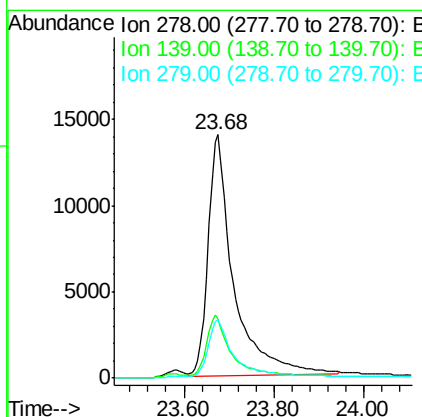
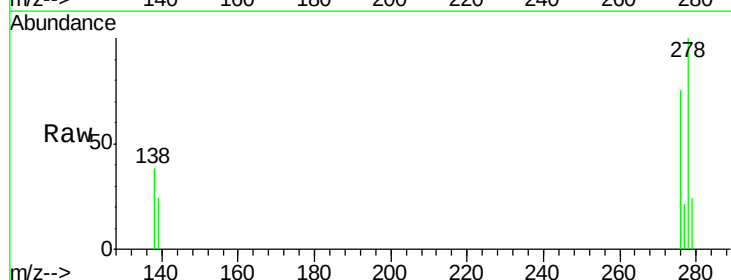
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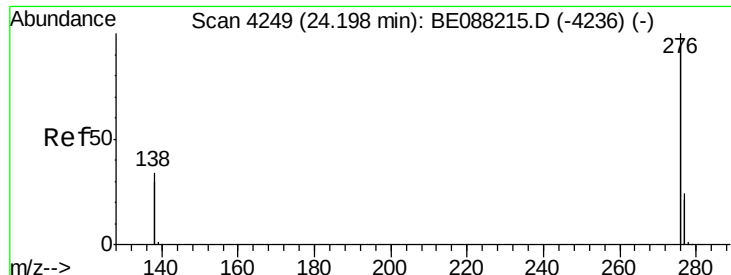
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#26
Dibenzo(a,h)anthracene
Concen: 5.41 ng
RT: 23.68 min Scan# 4170
Delta R.T. 0.01 min
Lab File: BE088230.D
Acq: 25 Oct 2014 3:54

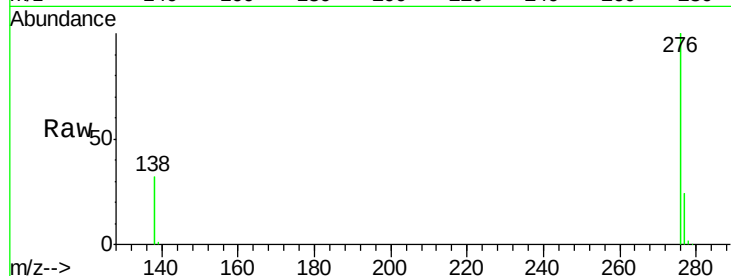
Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.4	22.1	33.1
279	24.0	20.2	30.2





#27
 Benzo(g,h,i)perylene
 Concen: 6.37 ng
 RT: 24.20 min Scan# 4251
 Delta R.T. 0.01 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

Instrument :
 BNA_E
 ClientSampleId :
 PB79839BS



Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		258845		
277	23.9	19.4	29.2		
138	31.8	27.3	40.9		

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