

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
 Data File : BE088327.D
 Acq On : 27 Oct 2014 23:02
 Operator : TP/JJ
 Sample : PB79870BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79870BS

Manual Integrations
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mohammad
 10/29/2014 11:11:38 AM

Quant Time: Oct 28 10:24:42 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102714.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 10:16:06 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	31885	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	122936	5.00	ng	0.00
7) Acenaphthene-d10	10.81	164	57295	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	109836	5.00	ng	0.00
16) Chrysene-d12	18.35	240	59241	5.00	ng	0.00
22) Perylene-d12	21.40	264	55031	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	82540	8.91	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	139848	9.27	ng	0.00
18) Terphenyl-d14	16.11	244	103976	9.39	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.38	88	42966	9.51	ng	99
5) Naphthalene	8.69	128	223705	8.70	ng	100
6) 2-Methylnaphthalene	9.55	142	144113	8.64	ng	97
9) Acenaphthylene	10.64	152	781129	9.46	ng	100
10) Acenaphthene	10.86	154	117657	9.68	ng	99
11) Fluorene	11.52	166	130454	10.10	ng	98
13) Phenanthrene	12.96	178	918759	10.00	ng	98
14) Anthracene	13.06	178	748403	9.92	ng	99
15) Fluoranthene	15.20	202	168517	9.97	ng	99
17) Pyrene	15.67	202	174560	9.78	ng	99
19) Benzo(a)anthracene	18.32	228	550688	9.86	ng	99
20) Chrysene	18.40	228	529451	9.98	ng	98
21) Indeno(1,2,3-cd)pyrene	23.58	276	555481m	9.18	ng	
23) Benzo(b)fluoranthene	20.64	252	124504	9.97	ng	99
24) Benzo(k)fluoranthene	20.70	252	132889	10.25	ng	99
25) Benzo(a)pyrene	21.29	252	122963	10.23	ng	99
26) Dibenzo(a,h)anthracene	23.68	278	112480	9.60	ng	96
27) Benzo(g,h,i)perylene	24.22	276	476544	9.40	ng	98

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

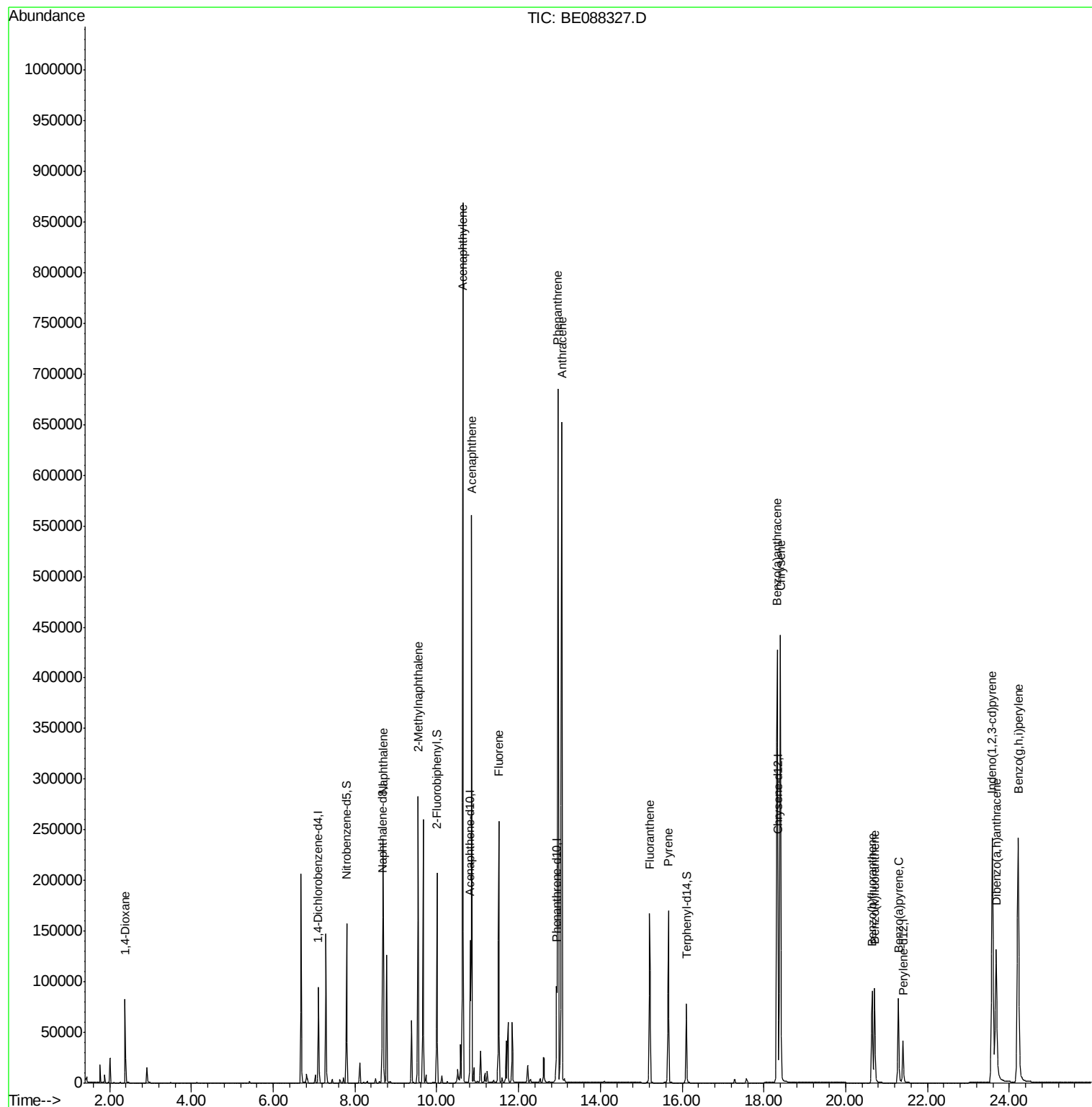
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102714\
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ALS Vial : 13 Sample Multiplier: 1

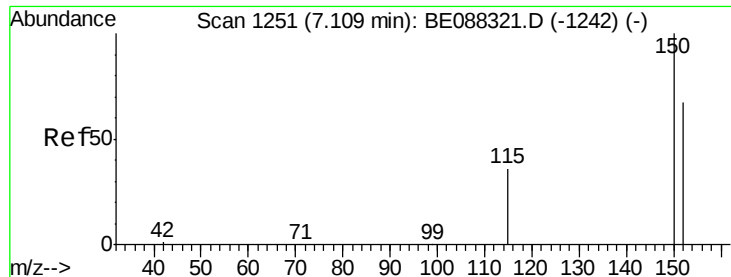
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QLast Update : Tue Oct 28 10:16:06 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BE088327.D

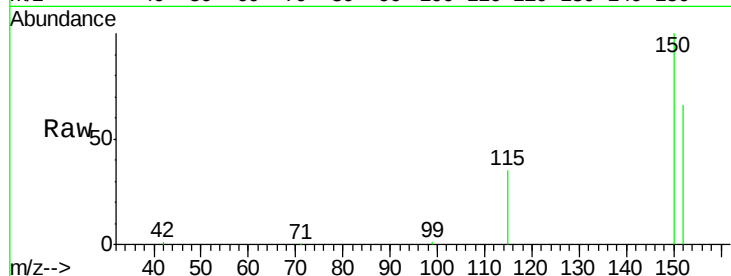
Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

PB79870BS



Tgt Ion: 152 Resp: 31885

Ion Ratio Lower Upper

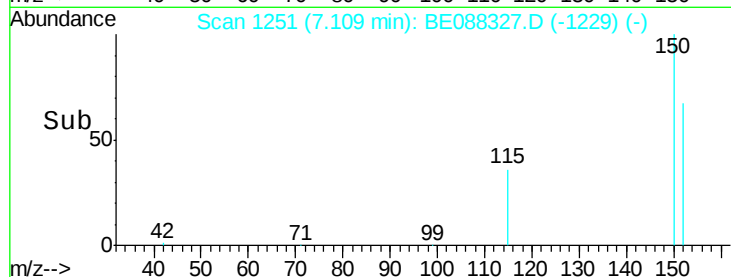
152 100

150 151.0 119.3 178.9

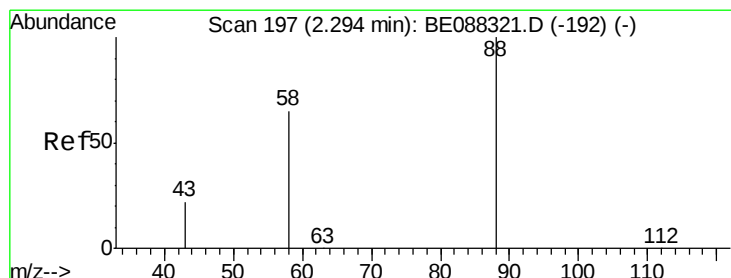
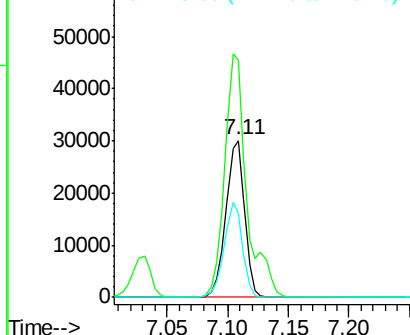
115 53.4 42.6 64.0

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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



#2

1,4-Dioxane

Concen: 9.51 ng

RT: 2.38 min Scan# 217

Delta R.T. 0.09 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

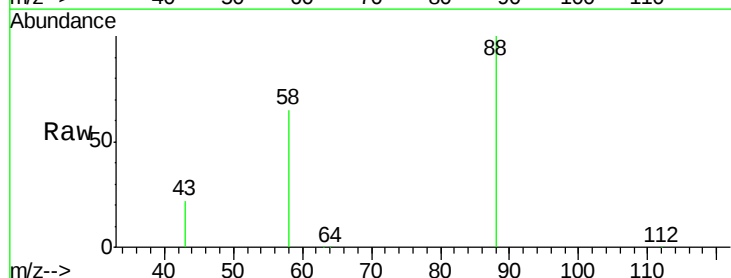
Tgt Ion: 88 Resp: 42966

Ion Ratio Lower Upper

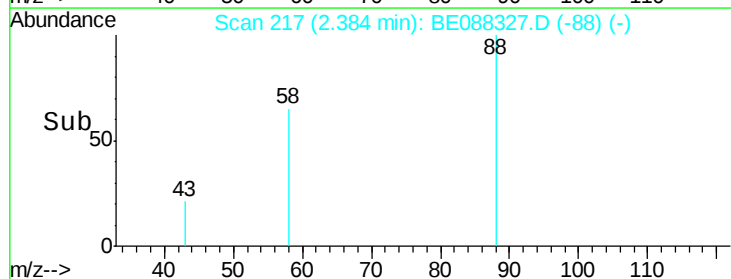
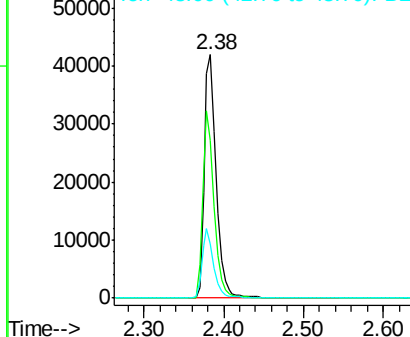
88 100

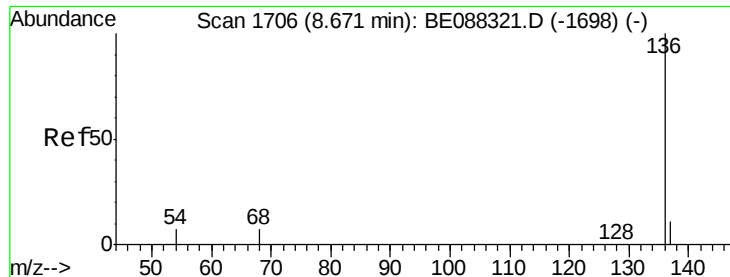
58 74.7 59.4 89.0

43 27.2 21.4 32.2



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088327.D

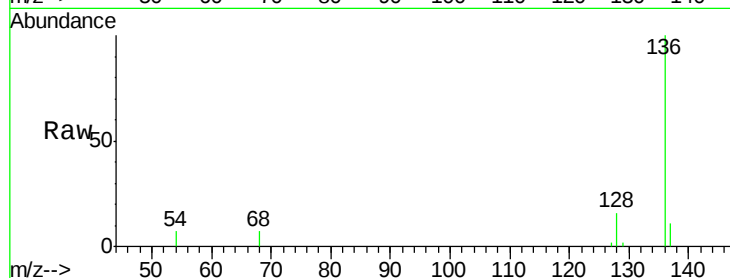
Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

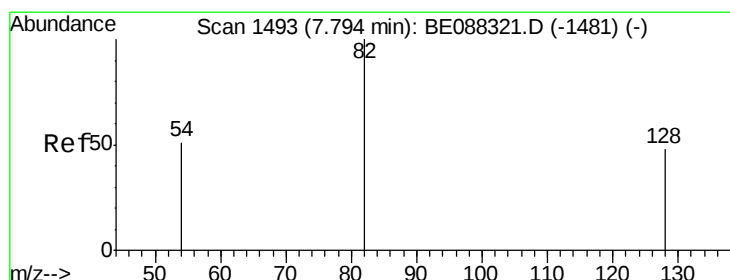
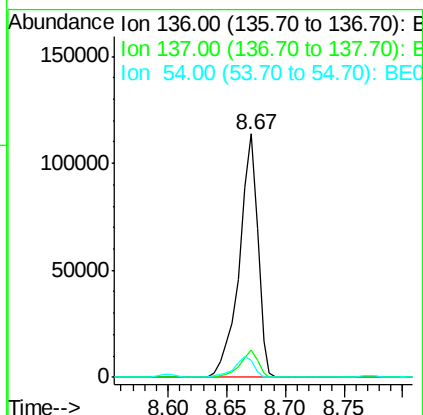
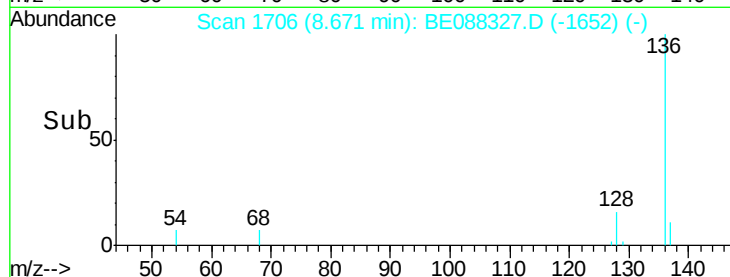
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Tgt Ion:	136	Resp:	122936
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.8	13.2
54	7.0	5.5	8.3

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#4

Nitrobenzene-d5

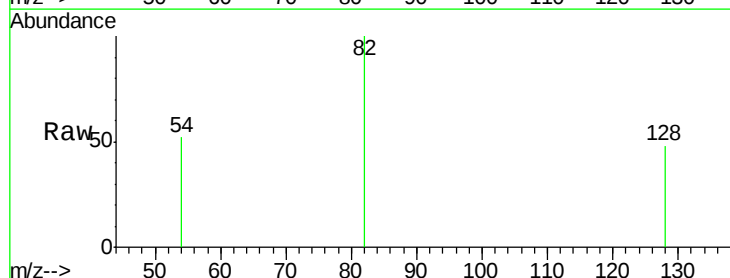
Concen: 8.91 ng

RT: 7.80 min Scan# 1494

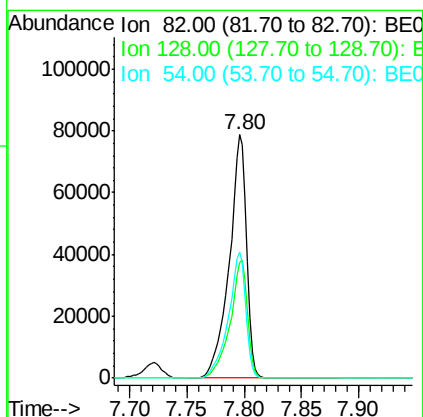
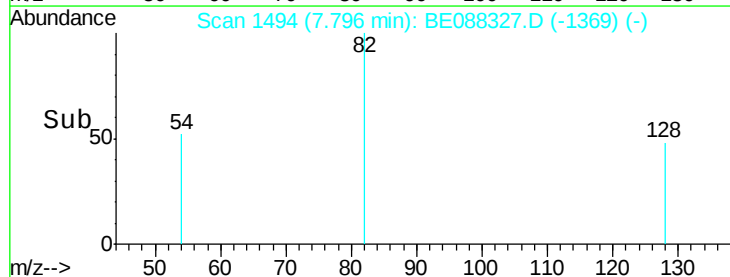
Delta R.T. 0.00 min

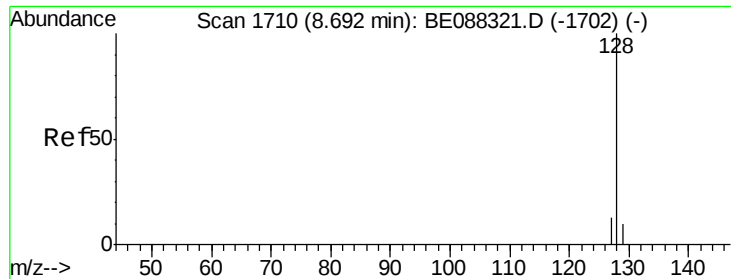
Lab File: BE088327.D

Acq: 27 Oct 2014 23:02



Tgt Ion:	82	Resp:	82540
Ion Ratio	Lower	Upper	
82	100		
128	47.7	38.7	58.1
54	51.8	41.0	61.4





#5

Naphthalene

Concen: 8.70 ng

RT: 8.69 min Scan# 1710

Delta R.T. -0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

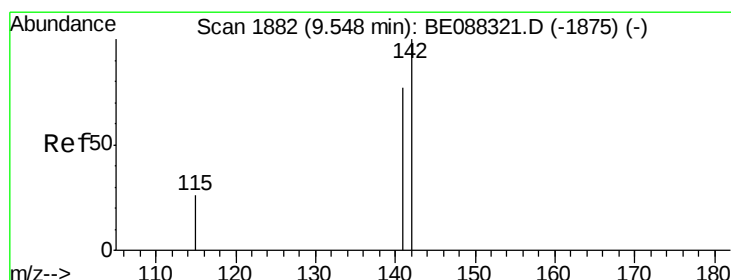
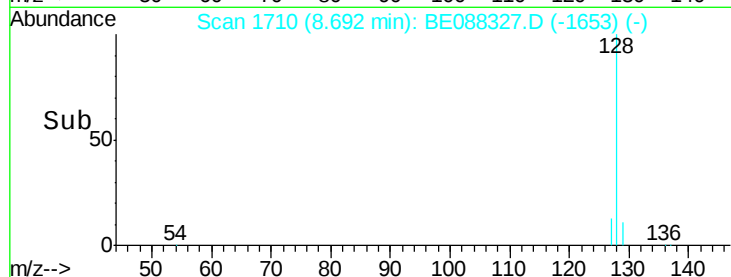
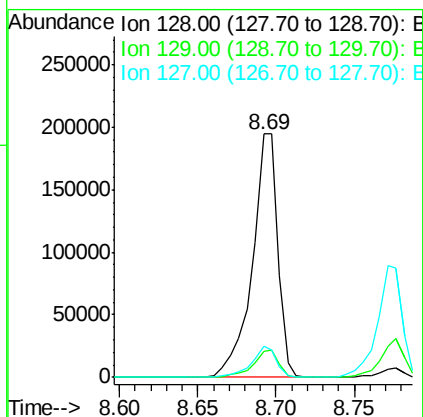
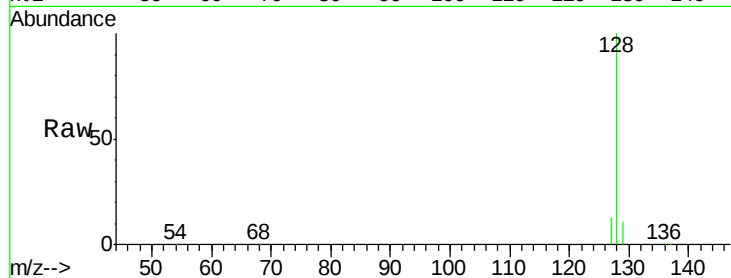
ClientSampleId :

PB79870BS

Tgt	Ion:128	Resp:	223705
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.5	12.7
127	12.7	10.2	15.2

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#6

2-Methylnaphthalene

Concen: 8.64 ng

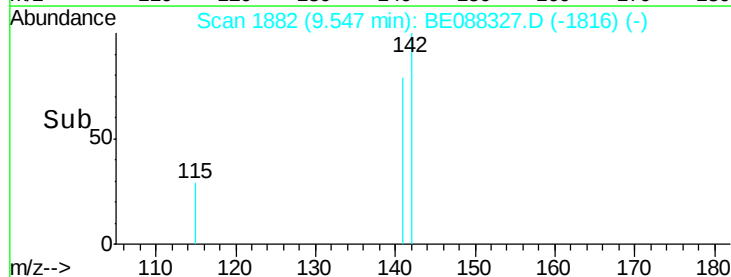
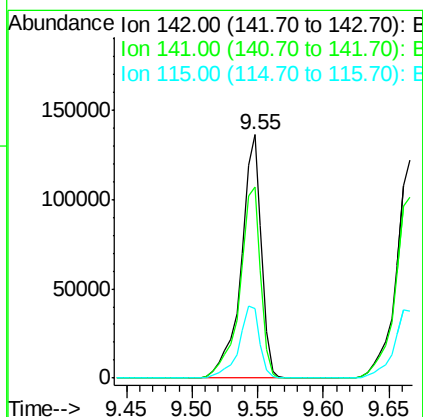
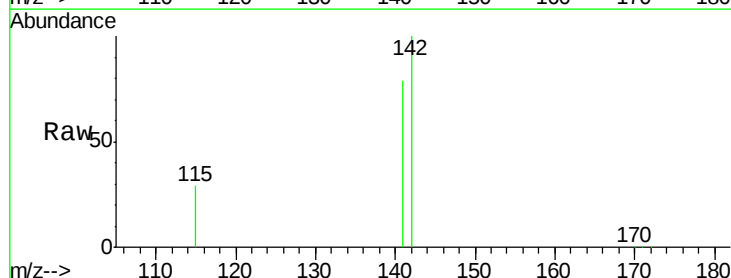
RT: 9.55 min Scan# 1882

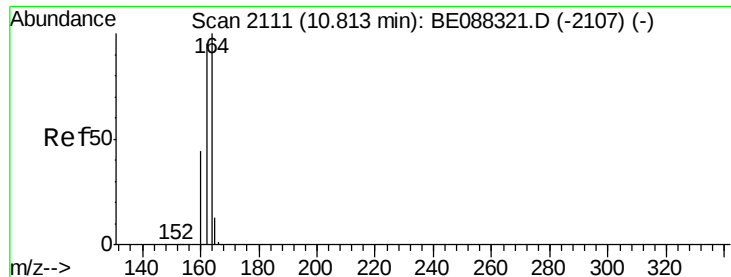
Delta R.T. -0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt	Ion:142	Resp:	144113
Ion	Ratio	Lower	Upper
142	100		
141	78.7	61.4	92.0
115	28.8	21.0	31.6





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.81 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088327.D

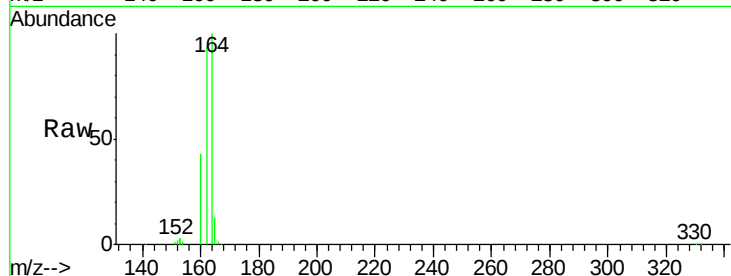
Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

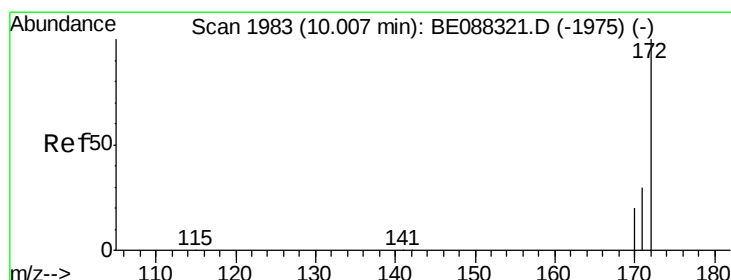
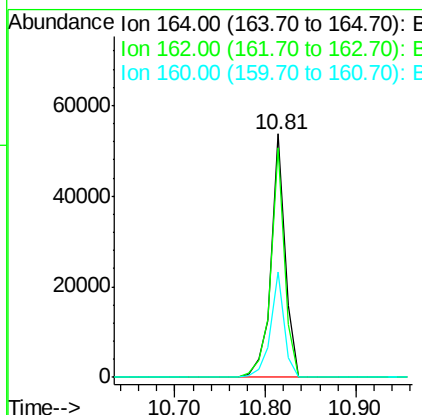
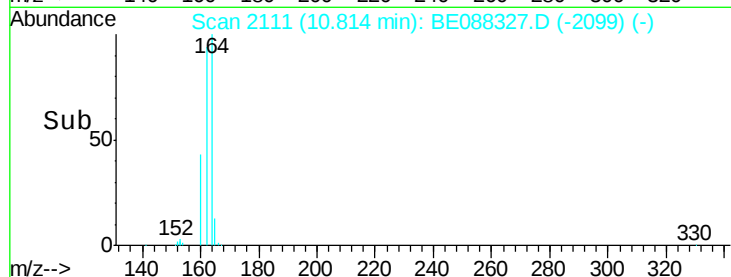
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Tgt Ion:	164	Resp:	57295
Ion Ratio	Lower	Upper	
164	100		
162	94.2	75.7	113.5
160	43.1	35.6	53.4

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#8

2-Fluorobiphenyl

Concen: 9.27 ng

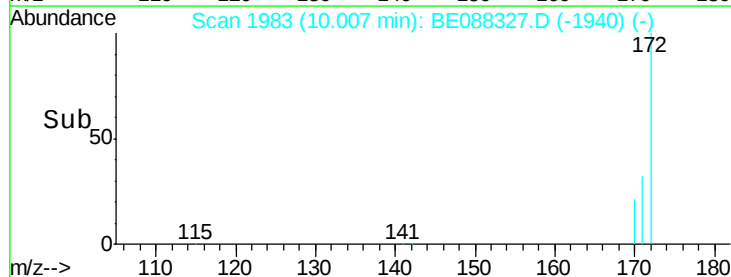
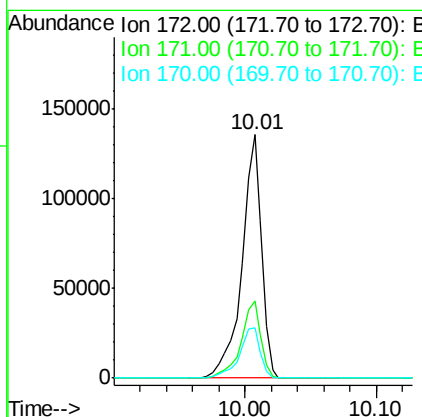
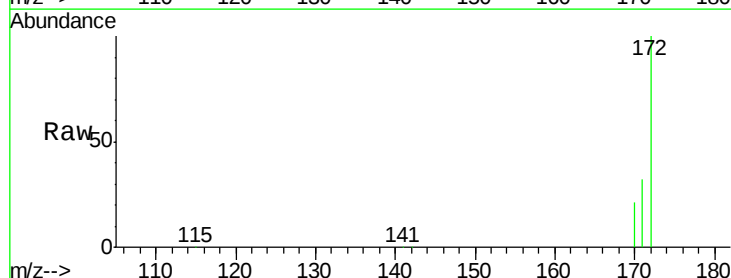
RT: 10.01 min Scan# 1983

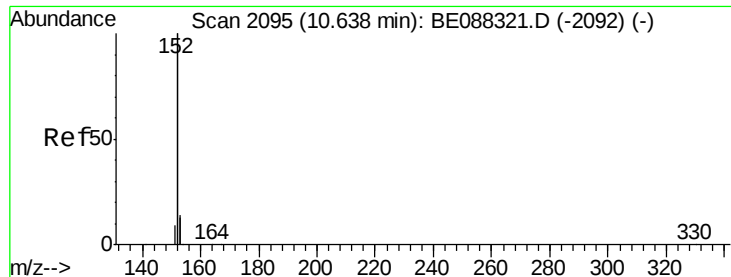
Delta R.T. 0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt Ion:	172	Resp:	139848
Ion Ratio	Lower	Upper	
172	100		
171	31.7	24.5	36.7
170	20.8	15.8	23.6





#9

Acenaphthylene

Concen: 9.46 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088327.D

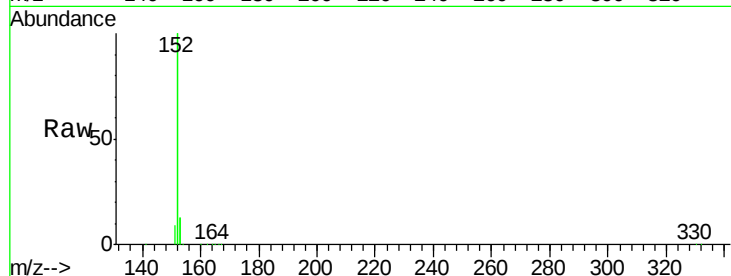
Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

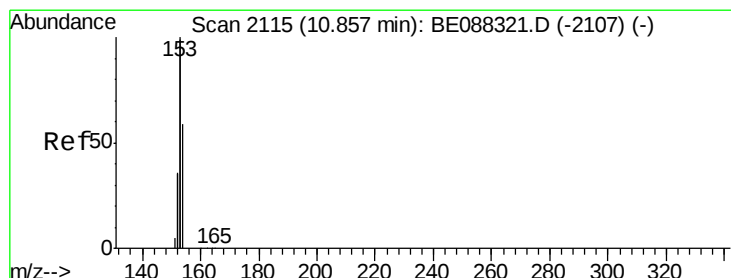
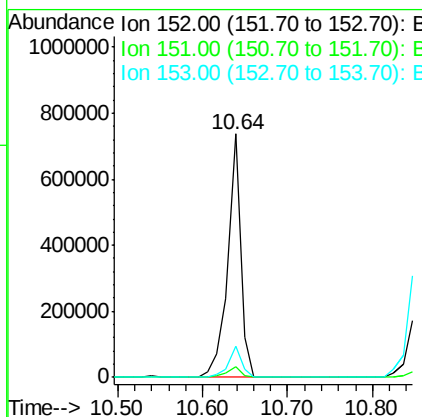
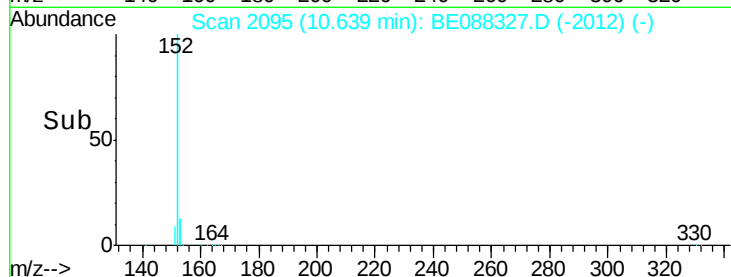
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Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.7	3.7	5.5
153	13.1	10.5	15.7

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#10

Acenaphthene

Concen: 9.68 ng

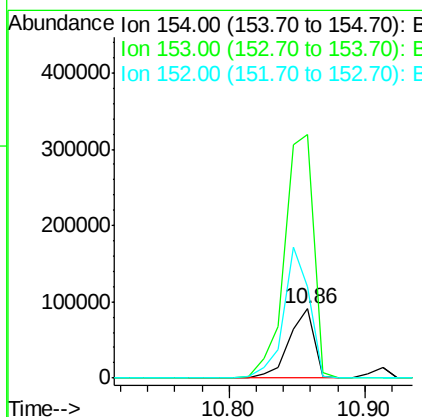
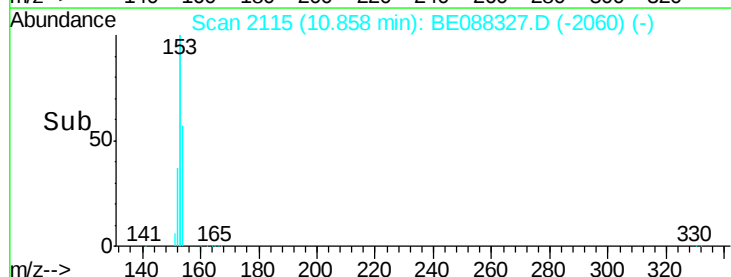
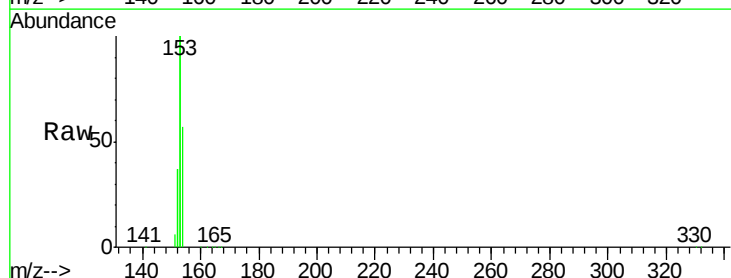
RT: 10.86 min Scan# 2115

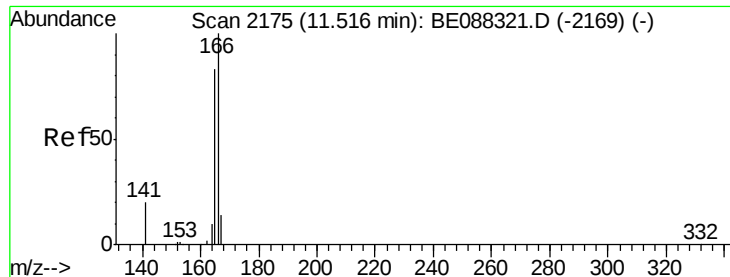
Delta R.T. 0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt Ion	Ratio	Lower	Upper
154	100		
153	407.7	323.8	485.6
152	193.8	154.8	232.2





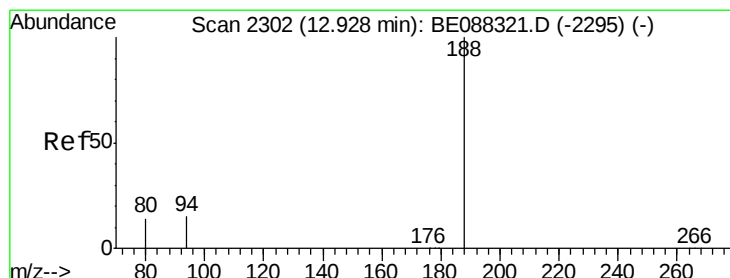
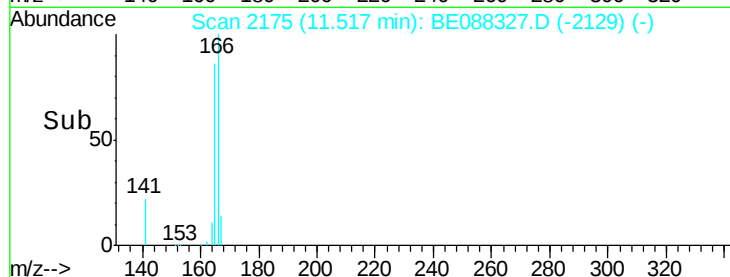
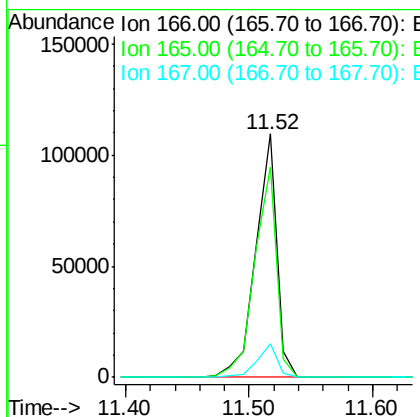
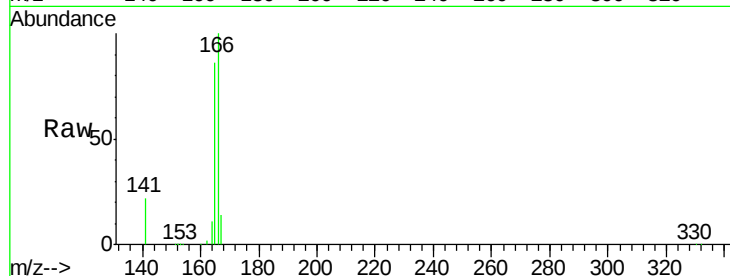
#11
Fluorene
 Concen: 10.10 ng
 RT: 11.52 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: BE088327.D
 Acq: 27 Oct 2014 23:02

Instrument :
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 ClientSampleId :
 PB79870BS

Tgt Ion	Ratio	Lower	Upper
166	100		
165	89.8	70.6	105.8
167	13.4	10.7	16.1

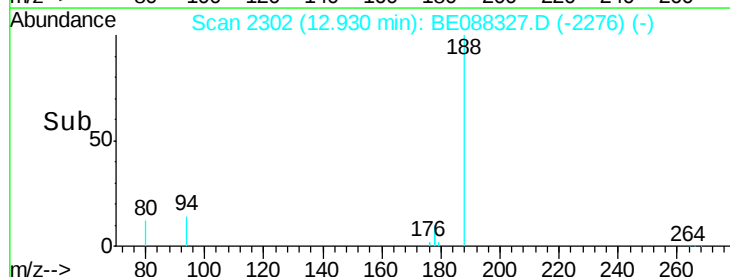
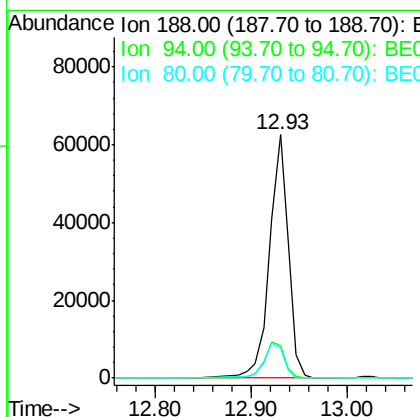
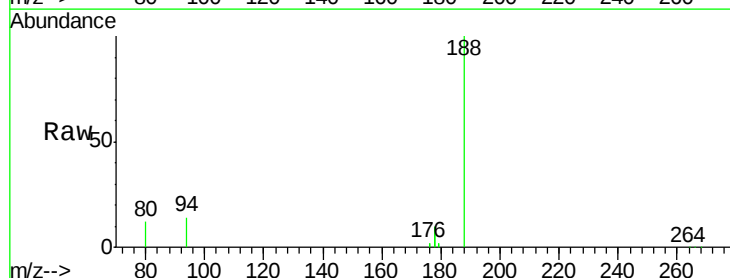
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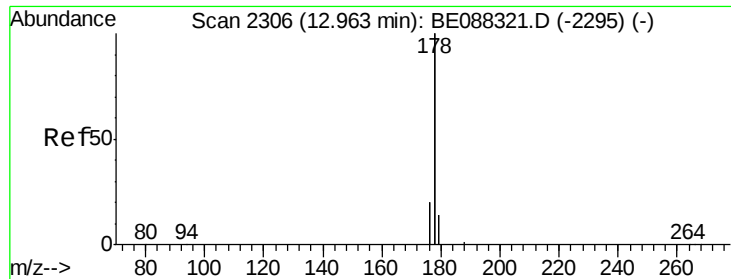
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.93 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE088327.D
 Acq: 27 Oct 2014 23:02

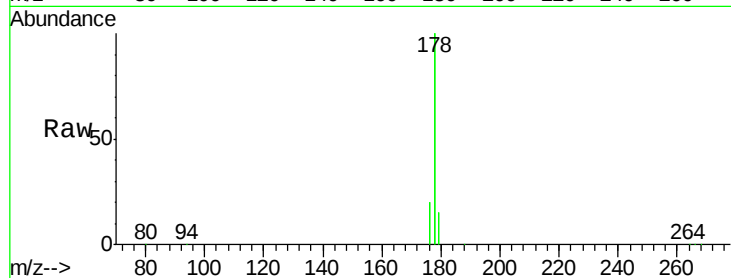
Tgt Ion	Ratio	Lower	Upper
188	100		
94	13.6	12.0	18.0
80	12.4	11.3	16.9





#13
Phenanthrene
Concen: 10.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088327.D
Acq: 27 Oct 2014 23:02

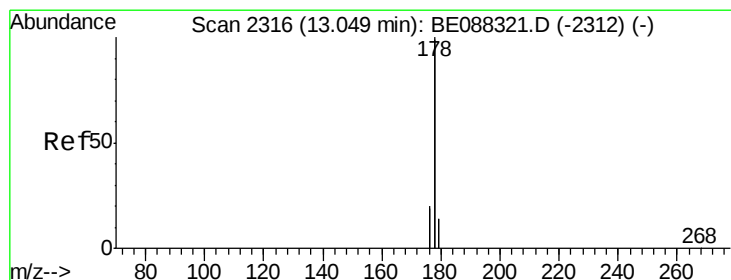
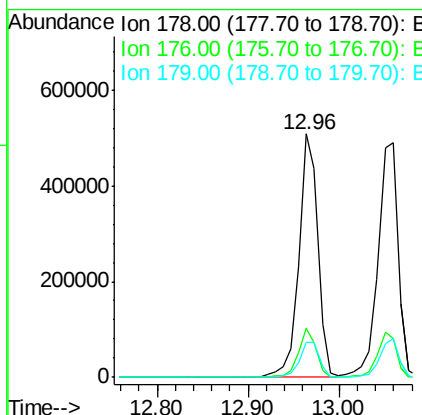
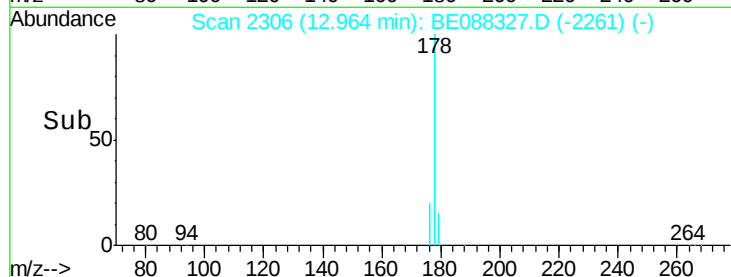
Instrument :
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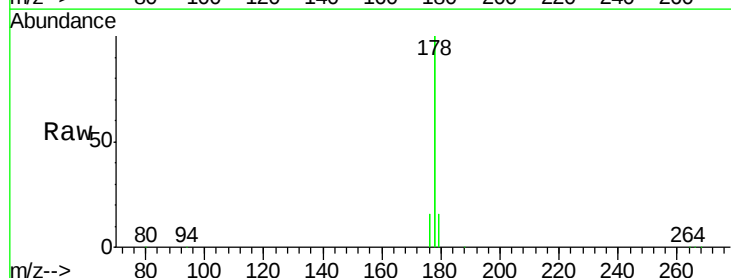
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.6
179	15.5	13.2	19.8

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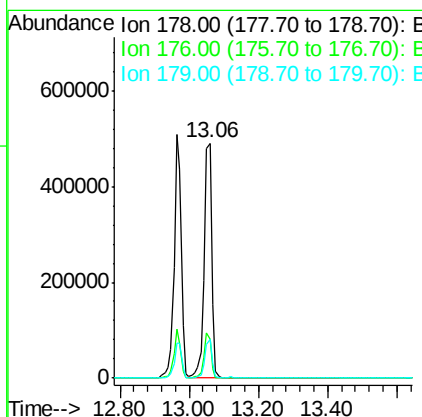
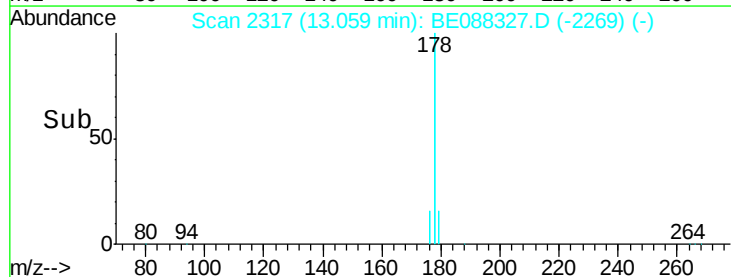
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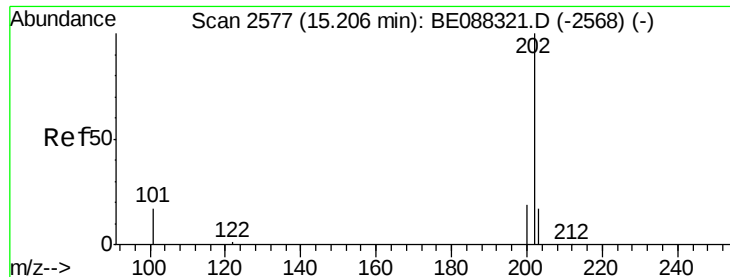


#14
Anthracene
Concen: 9.92 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BE088327.D
Acq: 27 Oct 2014 23:02



Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.6	21.8
179	15.3	12.6	18.8





#15

Fluoranthene

Concen: 9.97 ng

RT: 15.20 min Scan# 2577

Delta R.T. -0.00 min

Lab File: BE088327.D

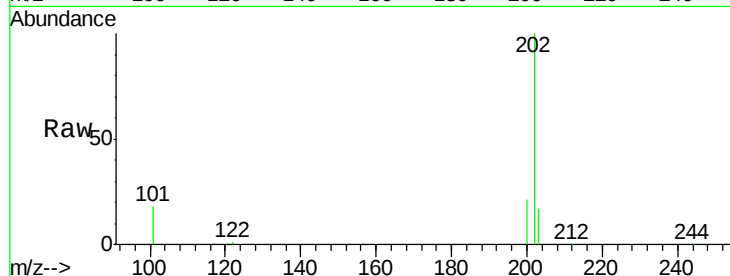
Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

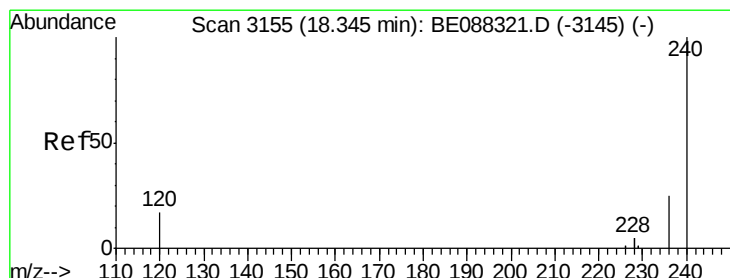
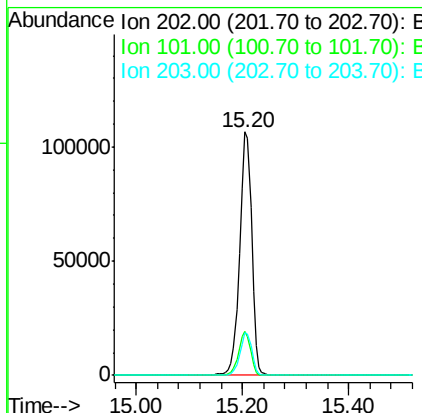
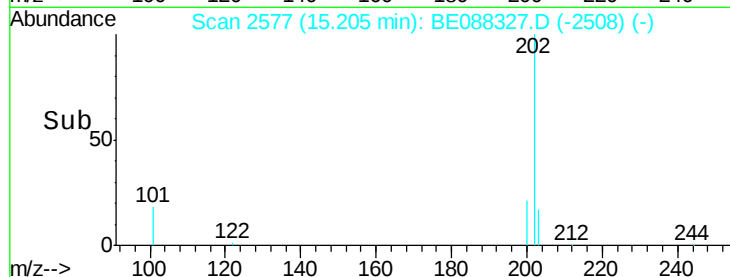
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Tgt Ion	Ratio	Resp	Lower	Upper
202	100	168517		
101	17.8	14.6	21.8	
203	17.3	13.8	20.6	

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#16

Chrysene-d12

Concen: 5.00 ng

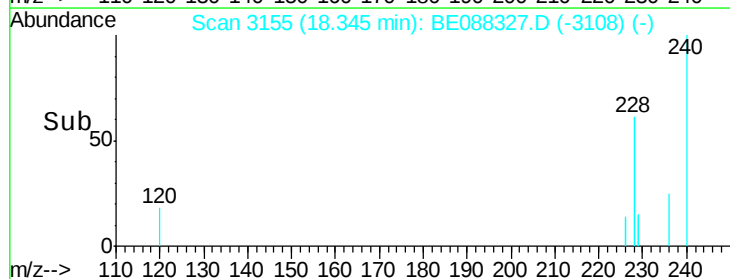
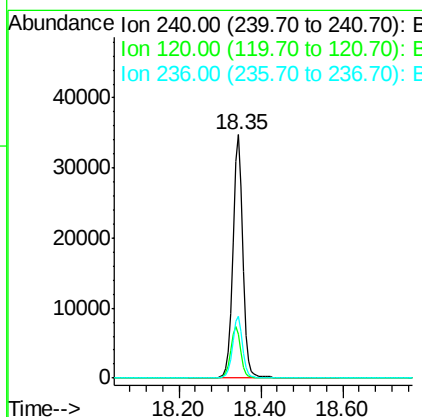
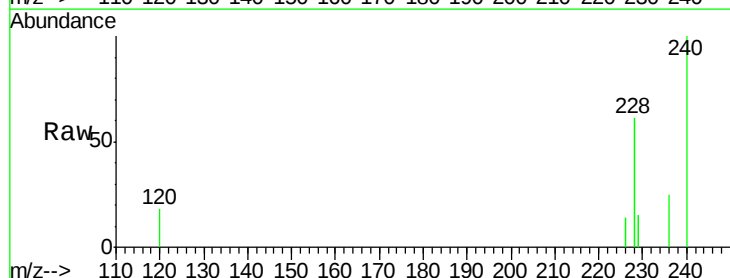
RT: 18.35 min Scan# 3155

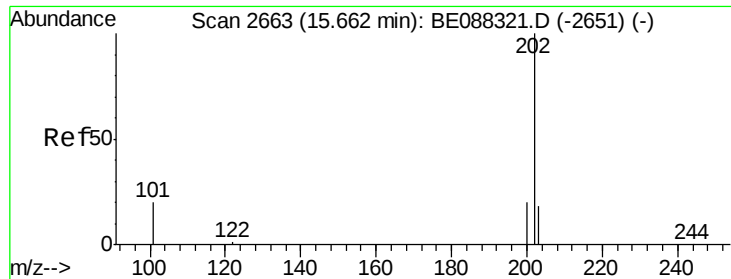
Delta R.T. -0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	59241		
120	17.9	13.4	20.0	
236	25.2	20.0	30.0	





#17

Pyrene

Concen: 9.78 ng

RT: 15.67 min Scan# 2664

Delta R.T. 0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

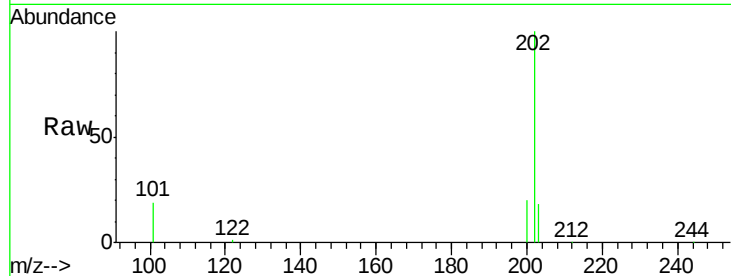
ClientSampleId :

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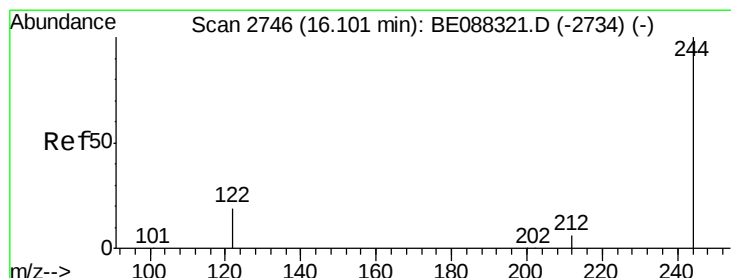
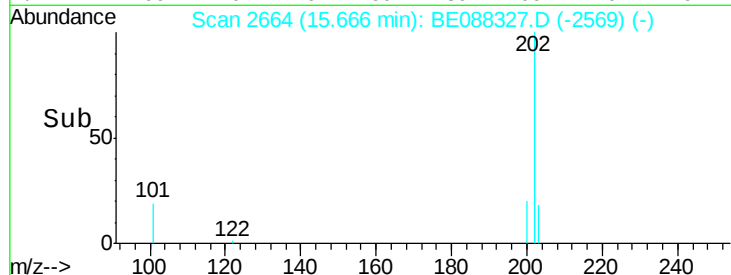
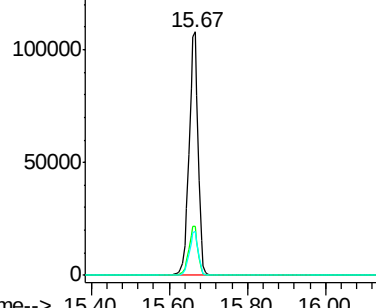
Tgt Ion:	202	Resp:	174560
Ion Ratio	Lower	Upper	
202	100		
200	20.3	16.1	24.1
203	18.0	13.9	20.9

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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



#18

Terphenyl-d14

Concen: 9.39 ng

RT: 16.11 min Scan# 2747

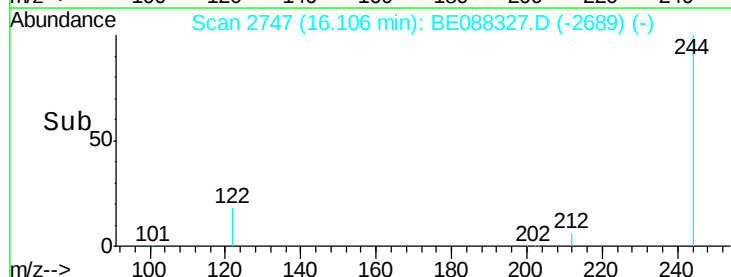
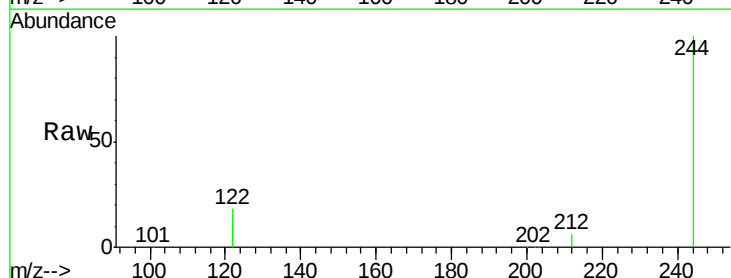
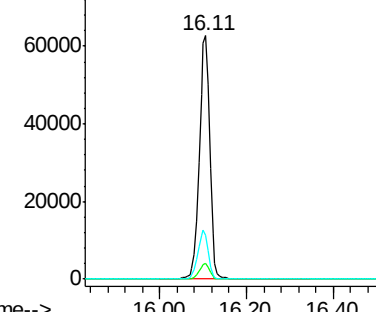
Delta R.T. 0.00 min

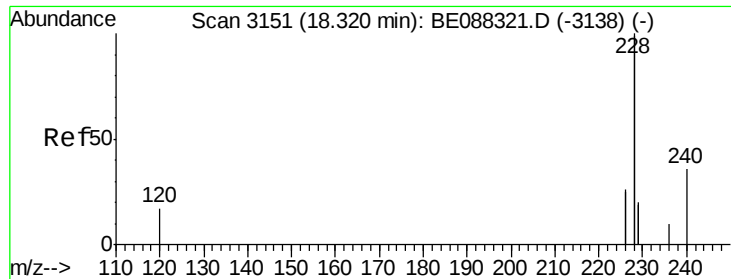
Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt Ion:	244	Resp:	103976
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.1	7.7
122	18.0	15.8	23.8

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





#19

Benzo(a)anthracene

Concen: 9.86 ng

RT: 18.32 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

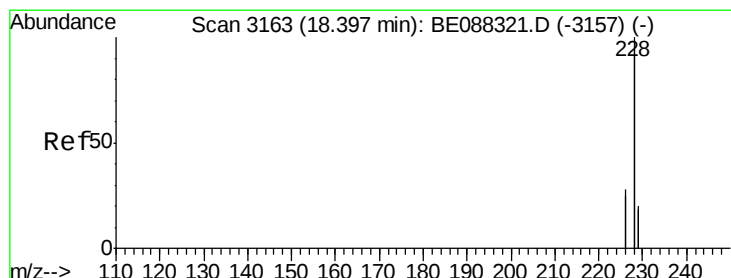
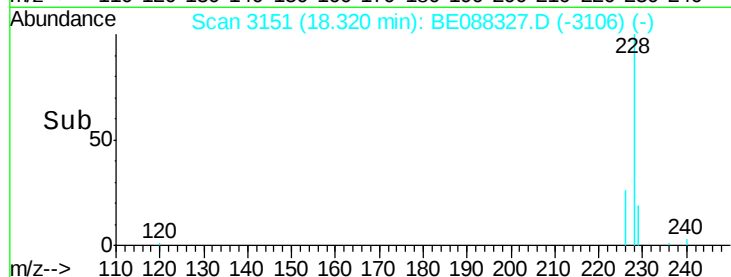
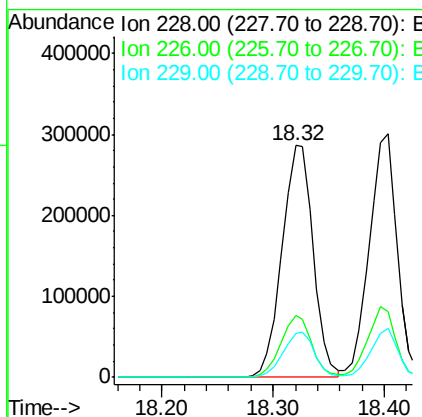
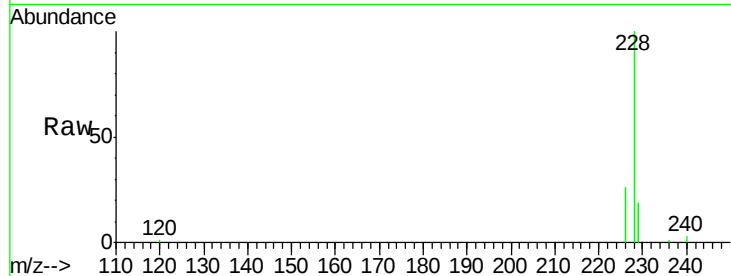
ClientSampleId :

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Tgt Ion:	228	Resp:	550688
Ion Ratio	Lower	Upper	
228	100		
226	26.5	20.7	31.1
229	19.1	15.7	23.5



#20

Chrysene

Concen: 9.98 ng

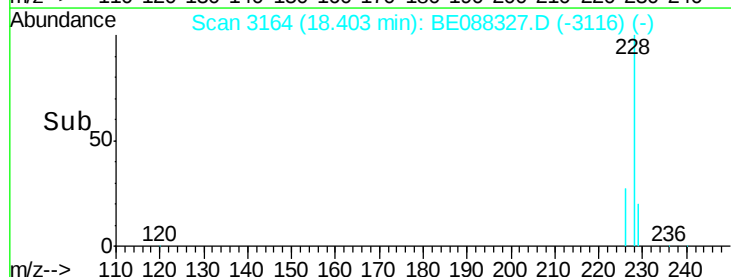
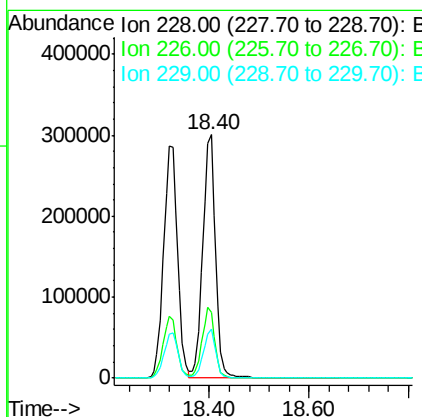
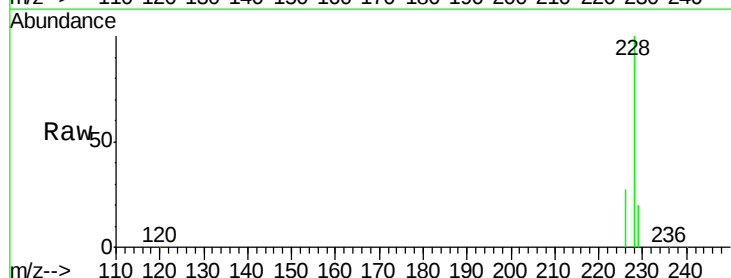
RT: 18.40 min Scan# 3164

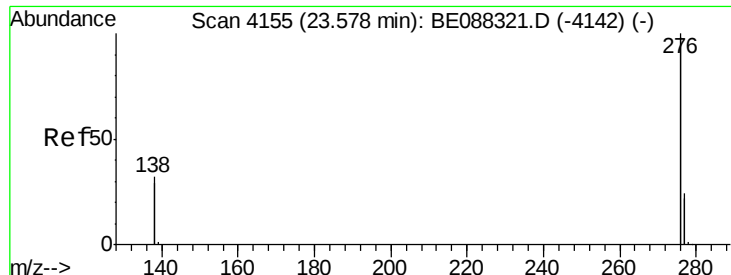
Delta R.T. 0.01 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

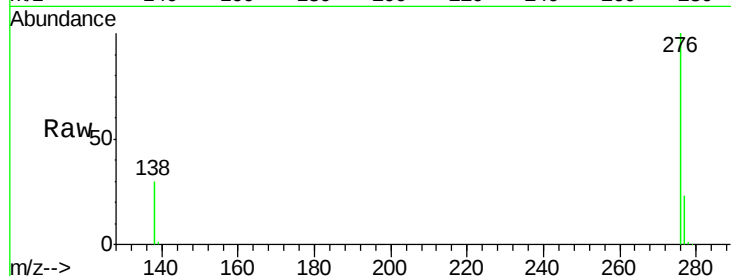
Tgt Ion:	228	Resp:	529451
Ion Ratio	Lower	Upper	
228	100		
226	27.0	22.7	34.1
229	20.0	15.6	23.4





#21
 Indeno(1,2,3-cd)pyrene
 Concen: 9.18 ng m
 RT: 23.58 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: BE088327.D
 Acq: 27 Oct 2014 23:02

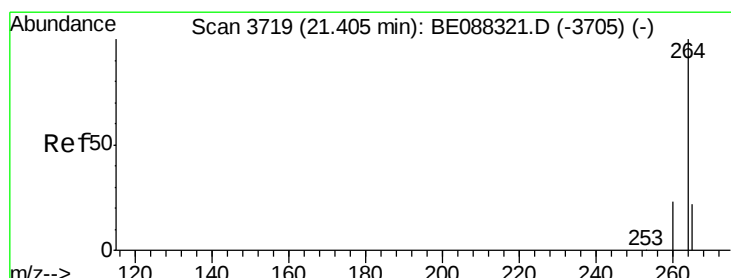
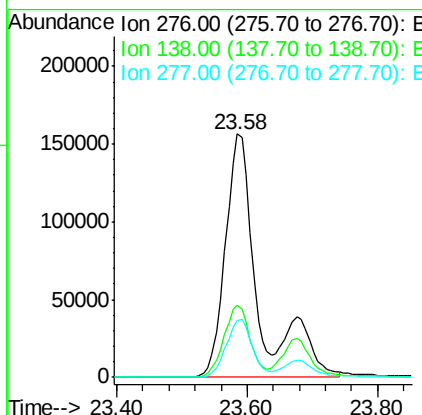
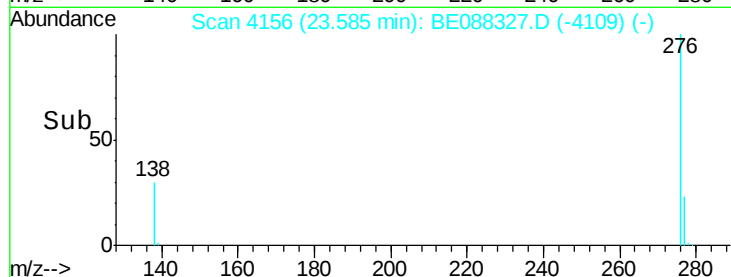
Instrument :
 BNA_E
 ClientSampleId :
 PB79870BS



Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.2	24.6	37.0#
277	18.6	19.0	28.6#

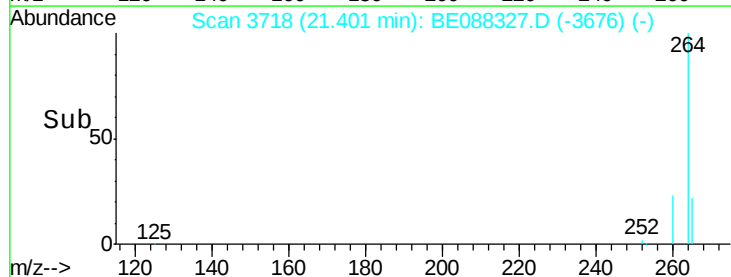
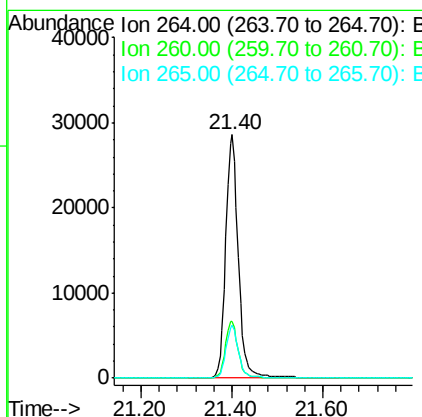
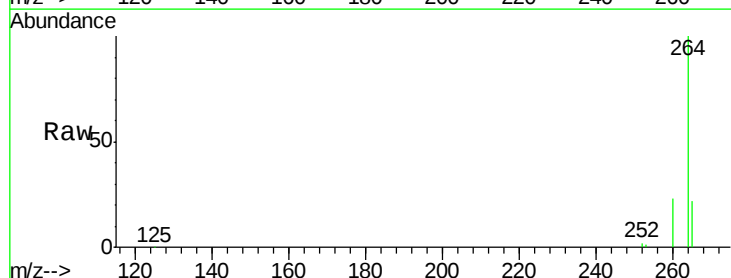
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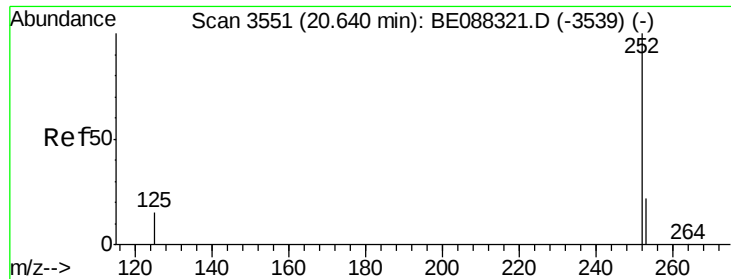
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#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3718
 Delta R.T. -0.00 min
 Lab File: BE088327.D
 Acq: 27 Oct 2014 23:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.9	28.3
265	21.7	17.4	26.0





#23

Benzo(b)fluoranthene

Concen: 9.97 ng

RT: 20.64 min Scan# 3552

Delta R.T. 0.00 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Instrument :

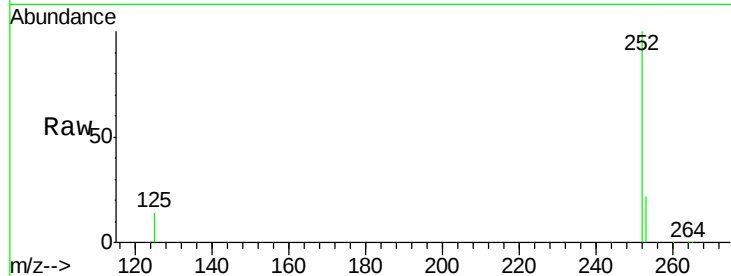
BNA_E

ClientSampleId :

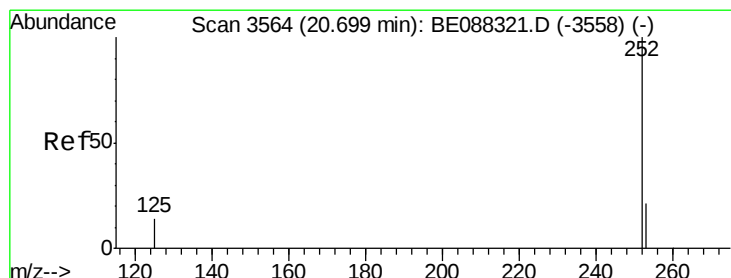
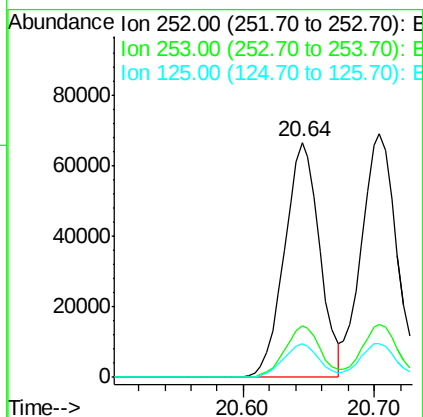
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Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	14.1	12.2	18.2



#24

Benzo(k)fluoranthene

Concen: 10.25 ng

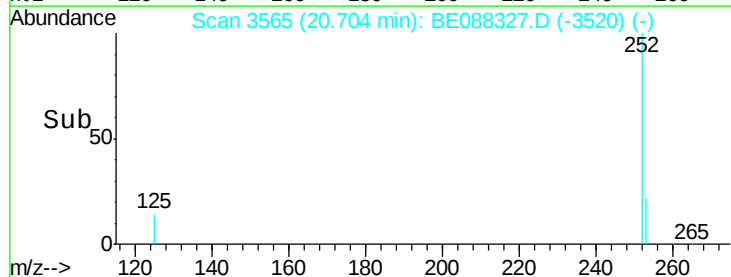
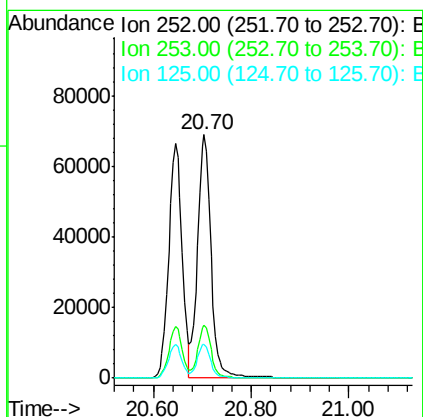
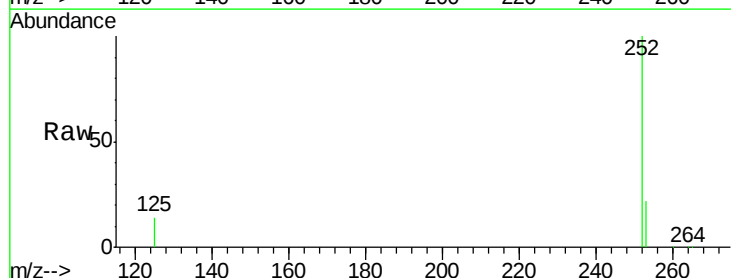
RT: 20.70 min Scan# 3565

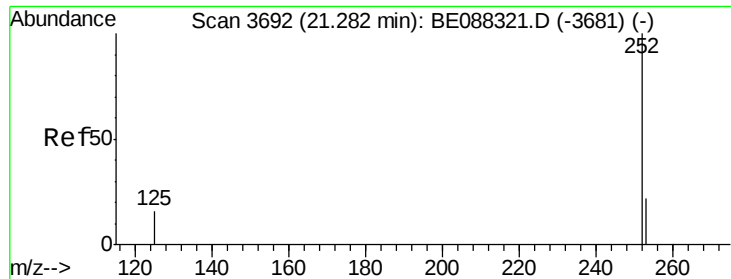
Delta R.T. 0.01 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	14.1	11.9	17.9





#25

Benzo(a)pyrene

Concen: 10.23 ng

RT: 21.29 min Scan# 3693

Delta R.T. 0.00 min

Lab File: BE088327.D

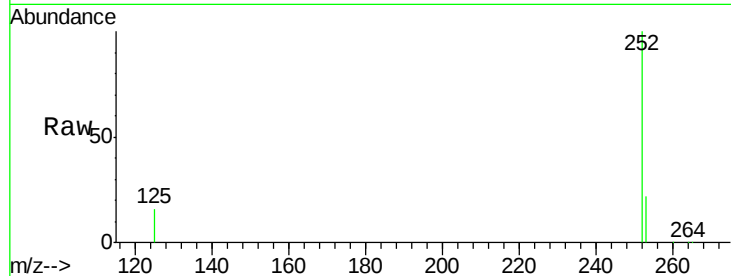
Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

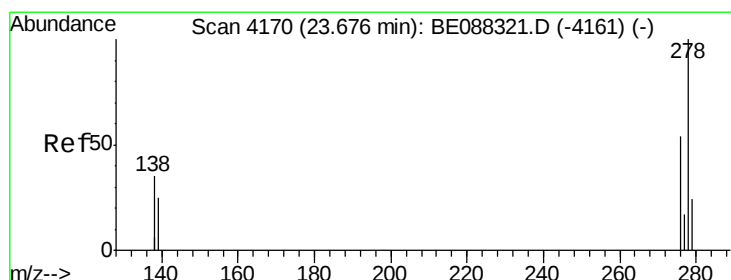
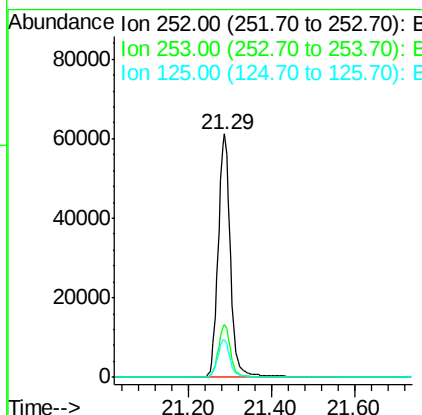
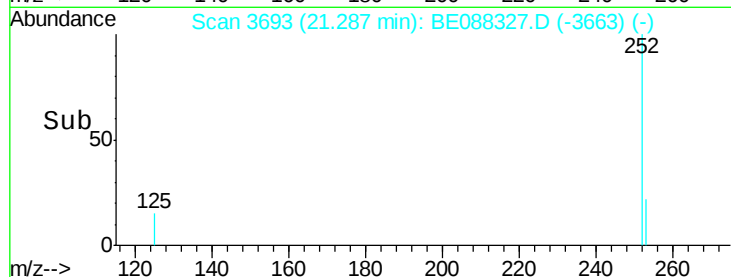
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Tgt Ion:	252	Resp:	122963
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.7	26.5
125	15.6	13.2	19.8

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#26

Dibenzo(a,h)anthracene

Concen: 9.60 ng

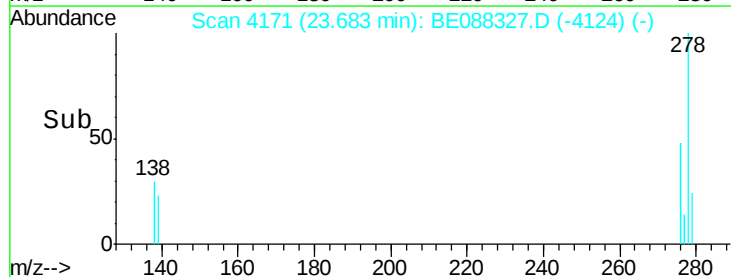
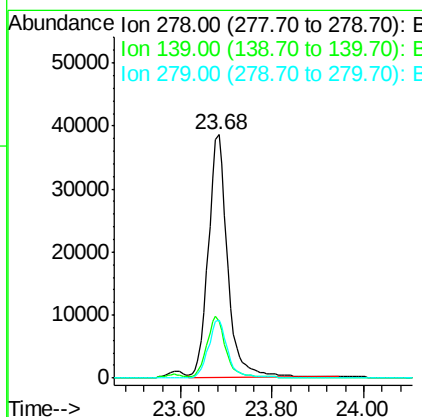
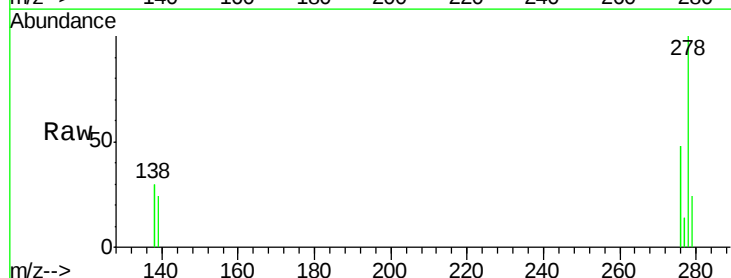
RT: 23.68 min Scan# 4171

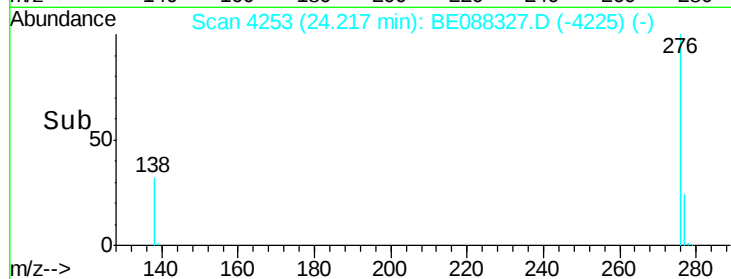
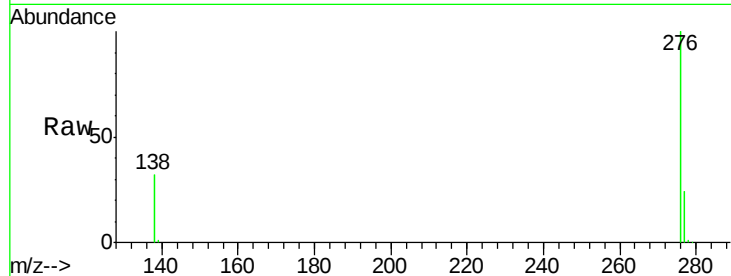
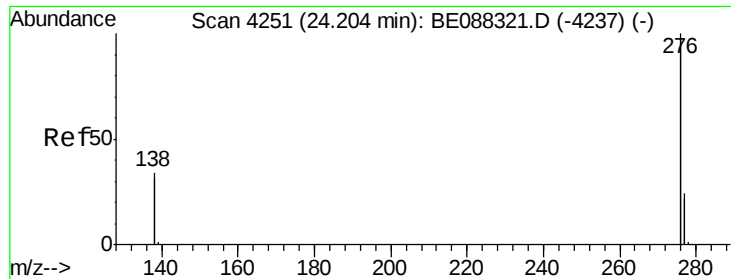
Delta R.T. 0.01 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Tgt Ion:	278	Resp:	112480
Ion Ratio	Lower	Upper	
278	100		
139	23.5	21.0	31.4
279	23.9	19.8	29.8





#27

Benzo(g,h,i)perylene

Concen: 9.40 ng

RT: 24.22 min Scan# 4253

Delta R.T. 0.01 min

Lab File: BE088327.D

Acq: 27 Oct 2014 23:02

Instrument :

BNA_E

ClientSampleId :

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Tgt	Ion	276	Resp:	476544
	Ratio	100	Lower	Upper
276	100			
277	23.7	19.1	28.7	
138	31.9	27.0	40.4	

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