

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE120914\
 Data File : BE089192.D
 Acq On : 9 Dec 2014 18:08
 Operator : TP/JJ
 Sample : PB80762BSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB80762BSD

Manual Integrations
 APPROVED

mohammad
 12/10/2014 4:31:41 PM

Quant Time: Dec 10 00:57:16 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE120514.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 08 00:50:53 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	19732	5.00	ng	-0.02
3) Naphthalene-d8	8.51	136	75767	5.00	ng	-0.02
7) Acenaphthene-d10	10.66	164	35482	5.00	ng	-0.01
12) Phenanthrene-d10	12.72	188	50310	5.00	ng	-0.02
17) Chrysene-d12	18.07	240	34671	5.00	ng	-0.02
23) Perylene-d12	21.11	264	31706	5.00	ng	-0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.64	82	45105	8.10	ng	-0.02
8) 2-Fluorobiphenyl	9.85	172	74241	7.56	ng	-0.01
19) Terphenyl-d14	15.85	244	49302	7.98	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.18	88	21855	8.86	ng	100
5) Naphthalene	8.54	128	126533	7.91	ng	99
6) 2-Methylnaphthalene	9.39	142	78136	8.00	ng	97
9) Acenaphthylene	10.48	152	458383	8.15	ng	100
10) Acenaphthene	10.69	154	64946	7.56	ng	98
11) Fluorene	11.34	166	72483	7.89	ng	99
13) Pentachlorophenol	12.43	266	18349	16.50	ng	92
14) Phenanthrene	12.75	178	404727	8.47	ng	100
15) Anthracene	12.84	178	416496	8.82	ng	100
16) Fluoranthene	14.96	202	88784	8.62	ng	100
18) Pyrene	15.40	202	93180	8.75	ng	100
20) Benzo(a)anthracene	18.05	228	290206	9.02	ng	99
21) Chrysene	18.12	228	293042	9.07	ng	98
22) Indeno(1,2,3-cd)pyrene	23.21	276	284355m	9.99	ng	
24) Benzo(b)fluoranthene	20.36	252	63950	9.57	ng	98
25) Benzo(k)fluoranthene	20.42	252	71734	9.09	ng	98
26) Benzo(a)pyrene	21.01	252	65471	10.05	ng	97
27) Dibenzo(a,h)anthracene	23.29	278	56646	10.04	ng	97
28) Benzo(g,h,i)perylene	23.79	276	247729	9.13	ng	97

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

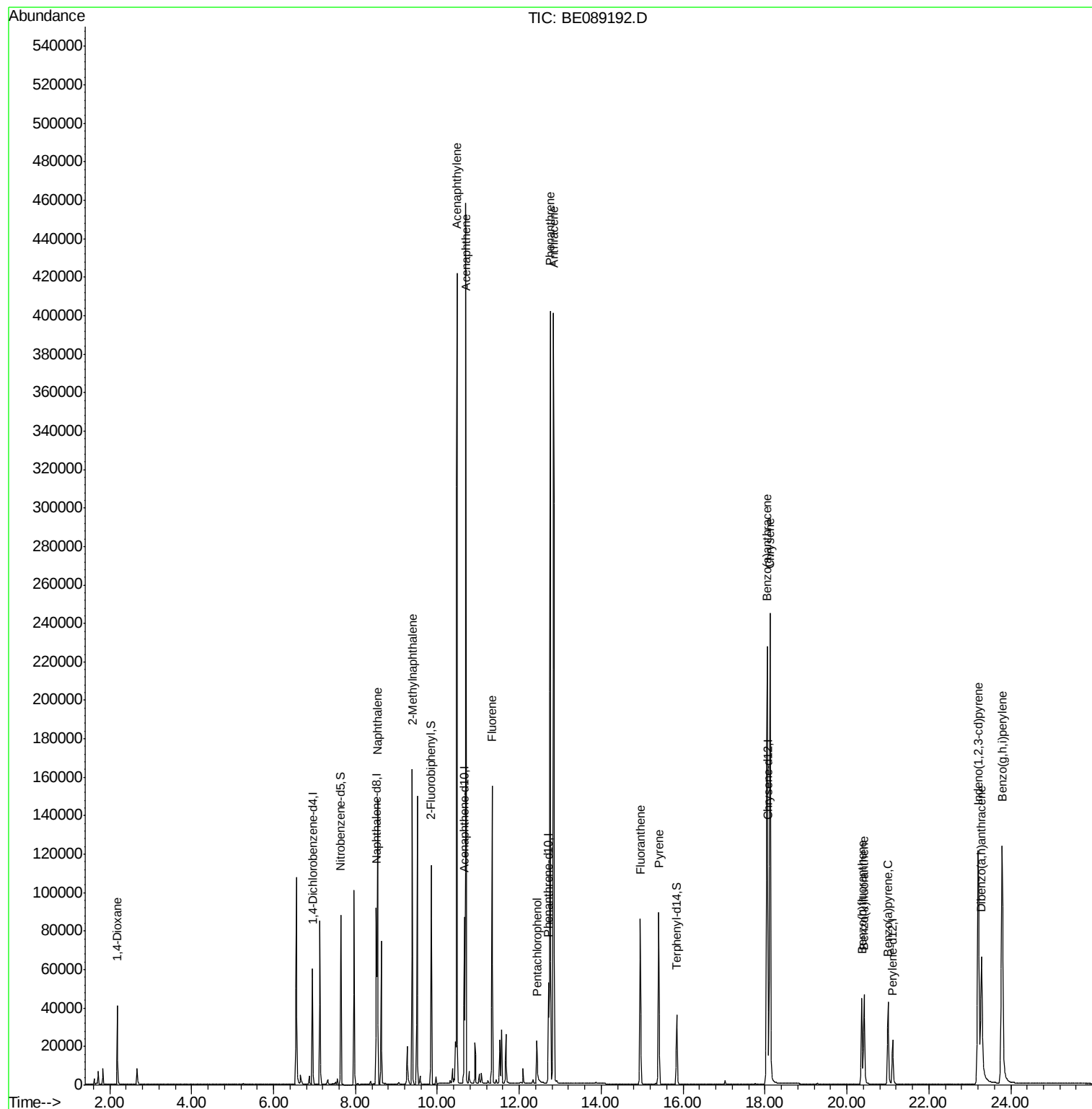
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE120914\
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ALS Vial : 4 Sample Multiplier: 1

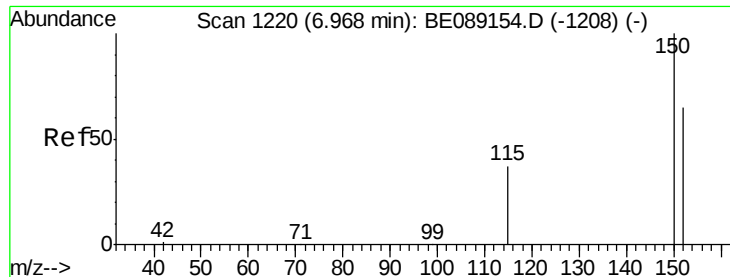
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QLast Update : Mon Dec 08 00:50:53 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.02 min

Lab File: BE089192.D

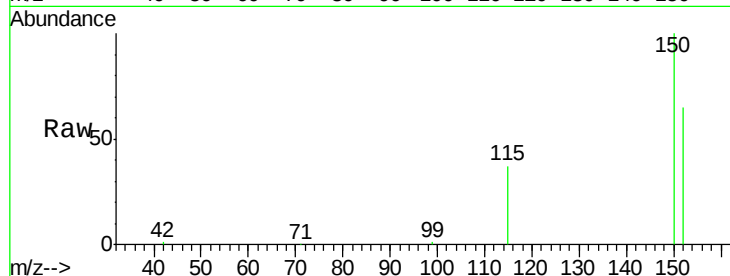
Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

ClientSampleId :

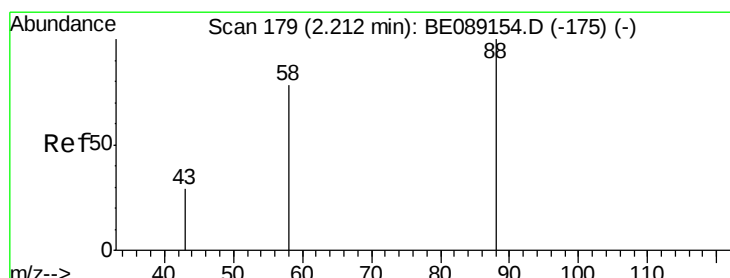
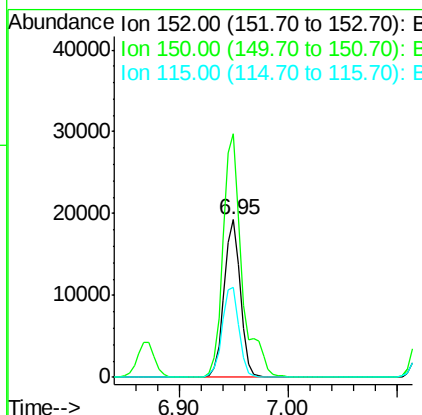
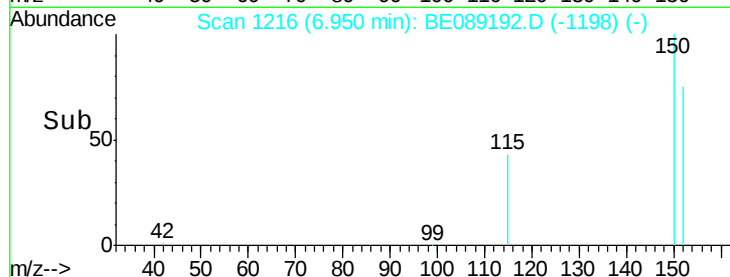
PB80762BSD



Tgt Ion:	152	Resp:	19732
Ion Ratio	Lower	Upper	
152	100		
150	154.4	124.0	186.0
115	57.1	46.0	69.0

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#2

1,4-Dioxane

Concen: 8.86 ng

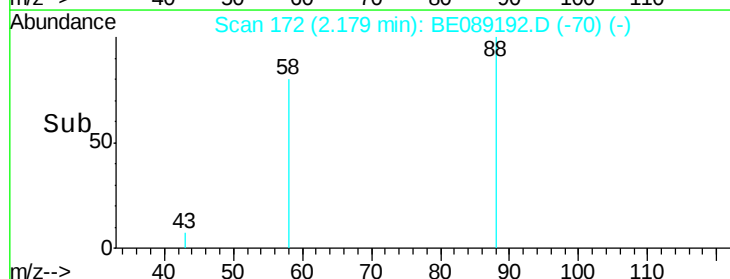
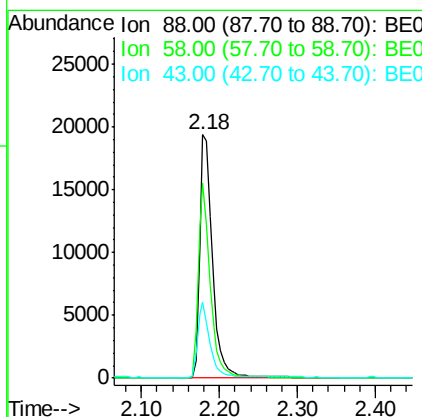
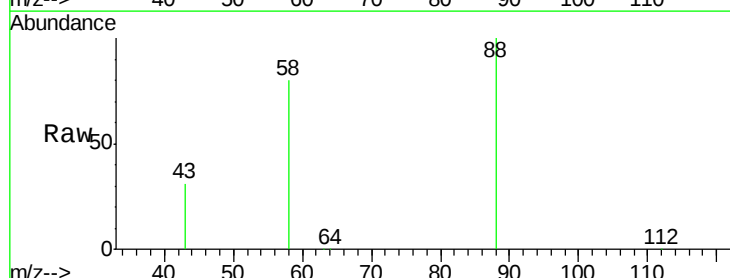
RT: 2.18 min Scan# 172

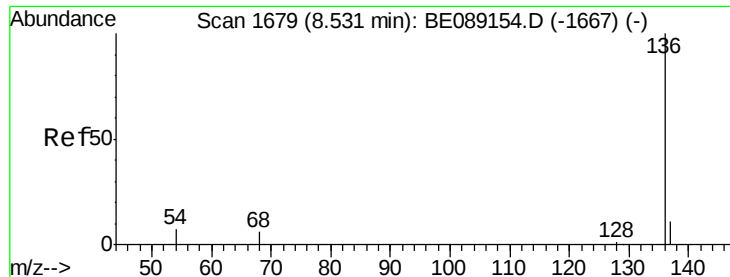
Delta R.T. -0.03 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Tgt Ion:	88	Resp:	21855
Ion Ratio	Lower	Upper	
88	100		
58	76.3	60.7	91.1
43	29.2	23.3	34.9





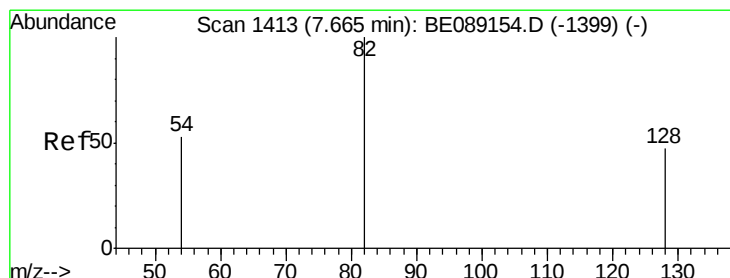
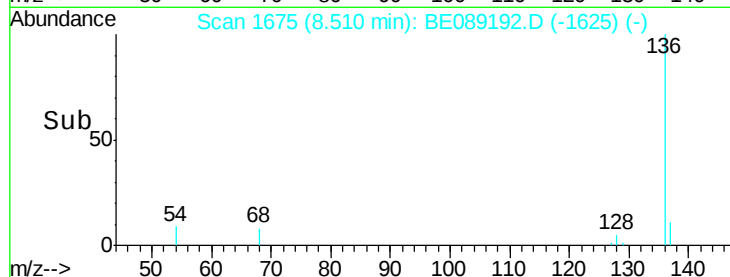
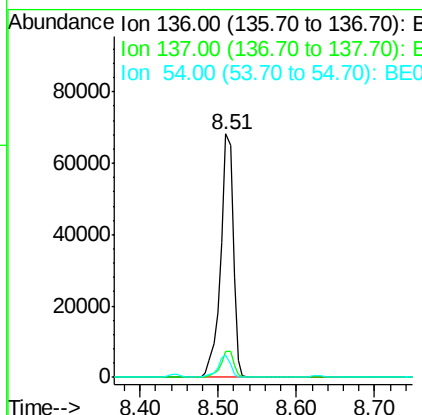
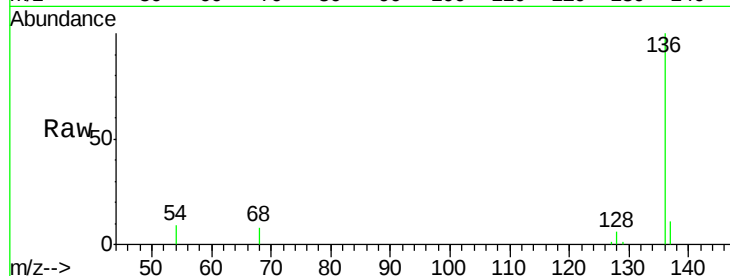
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.51 min Scan# 1675
Delta R.T. -0.02 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

Instrument :
BNA_E
ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
136	100	75767		
137	10.7		8.8	13.2
54	9.3		5.8	8.6

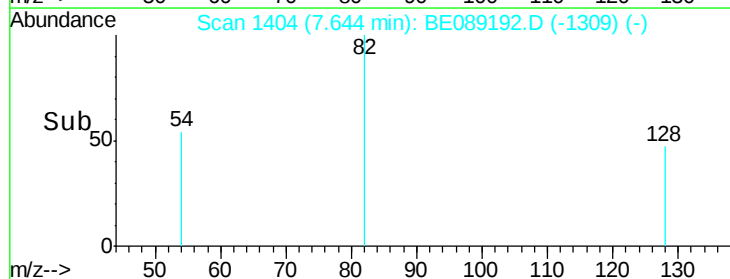
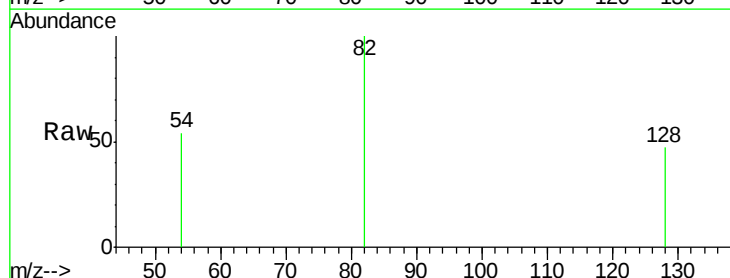
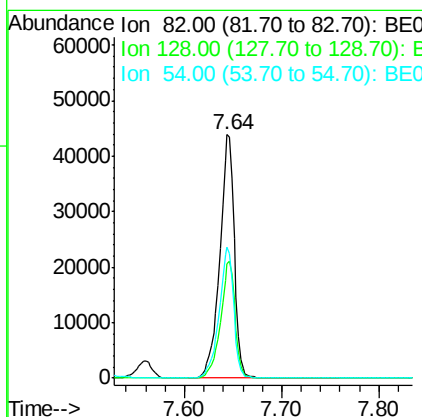
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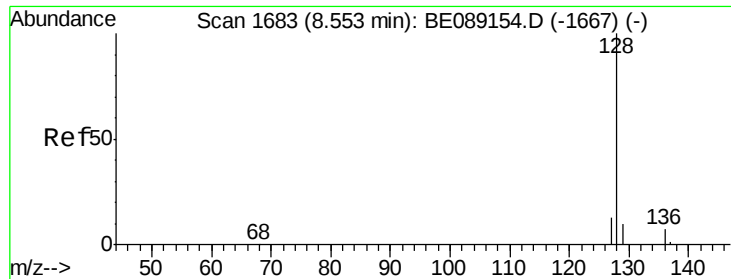
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#4
Nitrobenzene-d5
Concen: 8.10 ng
RT: 7.64 min Scan# 1404
Delta R.T. -0.02 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	45105		
128	46.9		37.8	56.6
54	54.1		43.0	64.4





#5

Naphthalene

Concen: 7.91 ng

RT: 8.54 min Scan# 1680

Delta R.T. -0.02 min

Lab File: BE089192.D

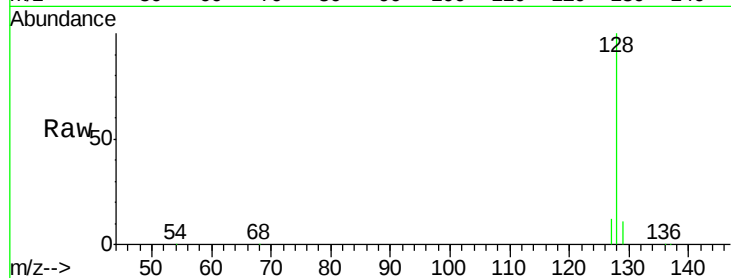
Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

ClientSampleId :

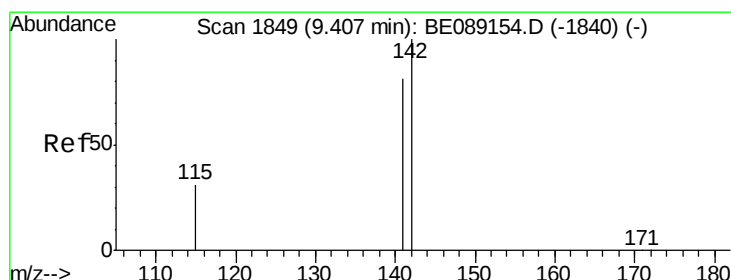
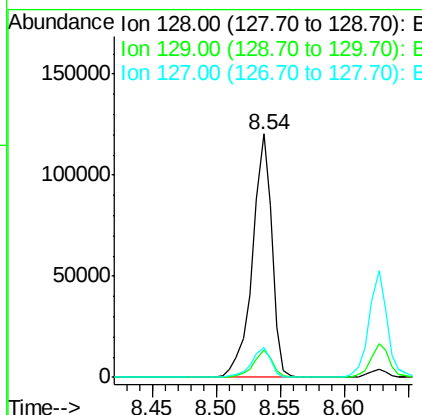
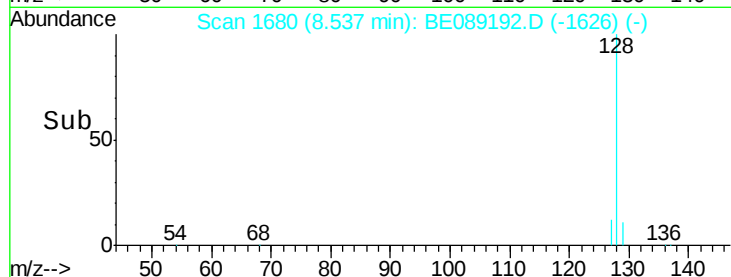
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Tgt Ion:	128	Resp:	126533
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.6	12.8
127	12.2	10.3	15.5

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#6

2-Methylnaphthalene

Concen: 8.00 ng

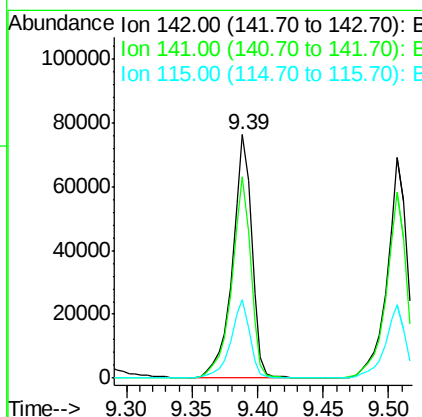
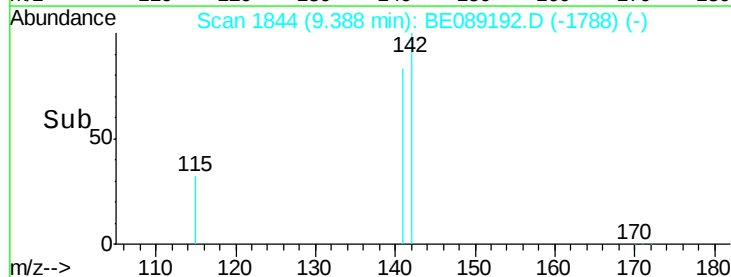
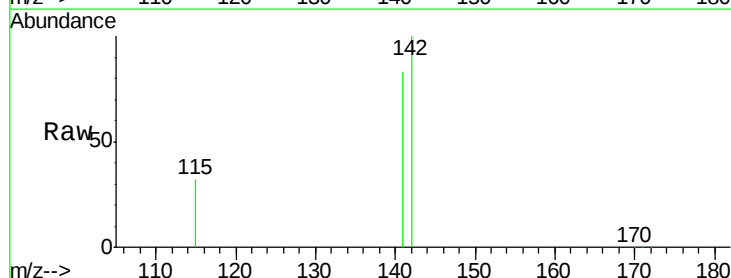
RT: 9.39 min Scan# 1844

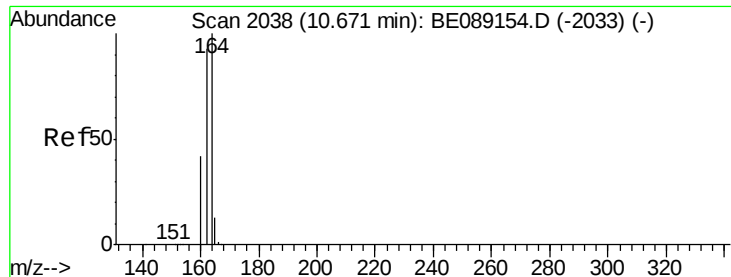
Delta R.T. -0.02 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Tgt Ion:	142	Resp:	78136
Ion Ratio	Lower	Upper	
142	100		
141	82.5	64.2	96.4
115	32.4	24.7	37.1





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.66 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BE089192.D

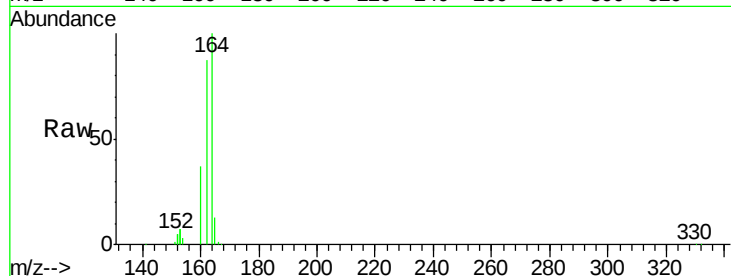
Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

ClientSampleId :

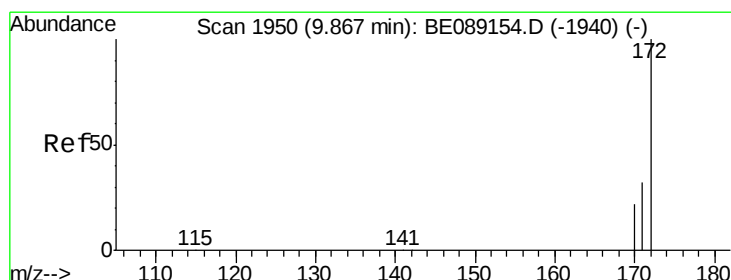
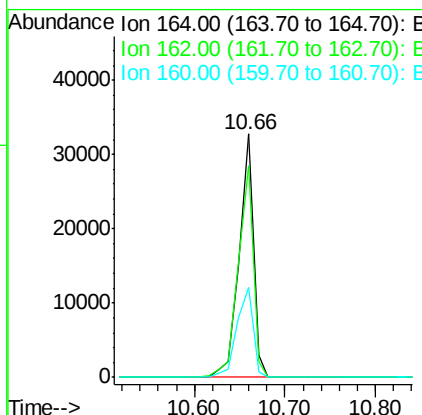
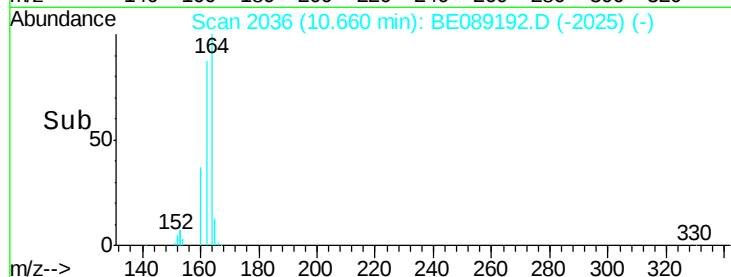
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Tgt Ion:	164	Resp:	35482
Ion Ratio	Lower	Upper	
164	100		
162	86.8	74.2	111.2
160	37.1	33.7	50.5

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#8

2-Fluorobiphenyl

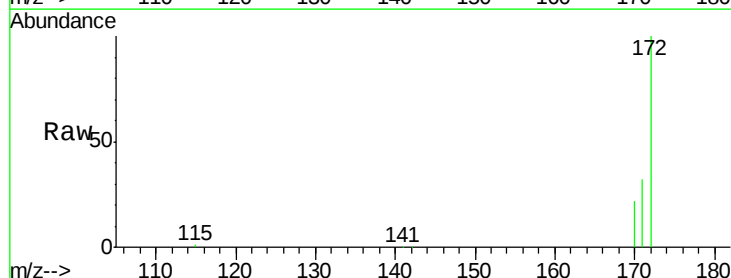
Concen: 7.56 ng

RT: 9.85 min Scan# 1946

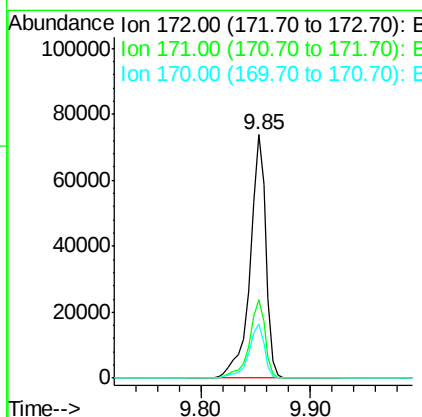
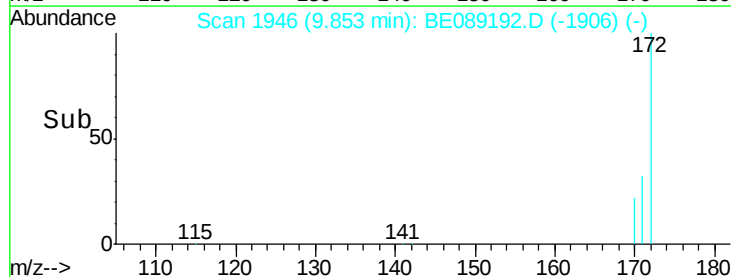
Delta R.T. -0.01 min

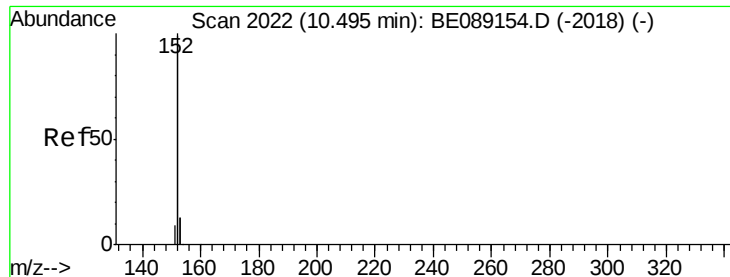
Lab File: BE089192.D

Acq: 9 Dec 2014 18:08



Tgt Ion:	172	Resp:	74241
Ion Ratio	Lower	Upper	
172	100		
171	32.1	26.0	39.0
170	22.1	18.0	27.0





#9

Acenaphthylene

Concen: 8.15 ng

RT: 10.48 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

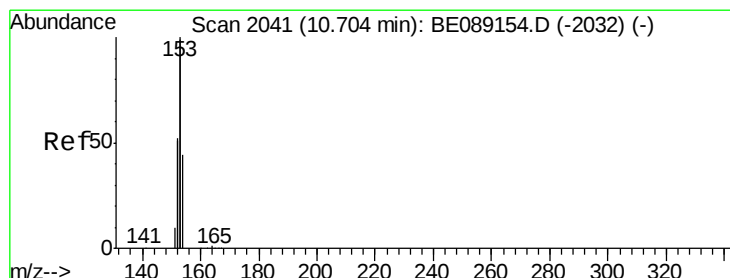
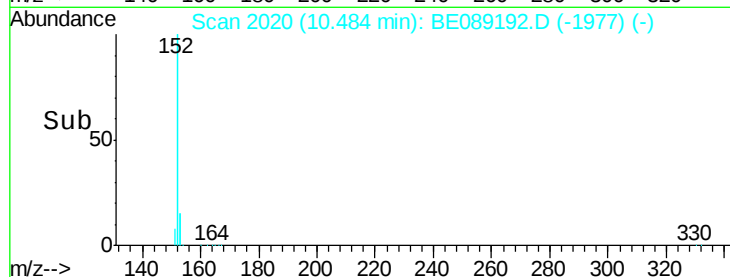
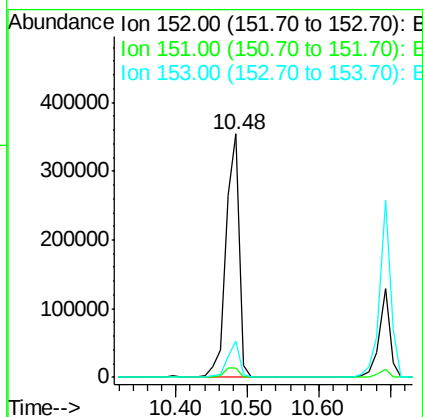
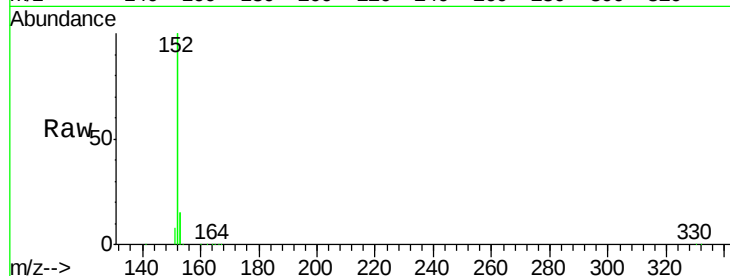
ClientSampleId :

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Tgt Ion:	152	Resp:	458383
Ion Ratio	Lower	Upper	
152	100		
151	4.6	3.7	5.5
153	13.1	10.4	15.6



#10

Acenaphthene

Concen: 7.56 ng

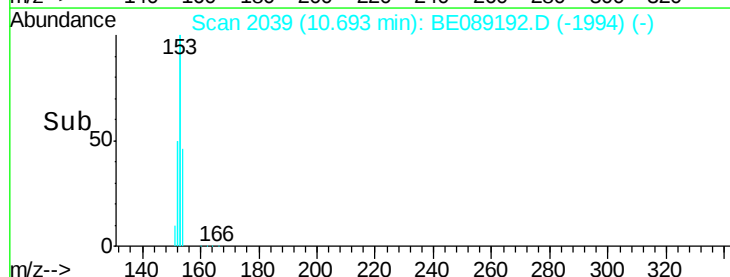
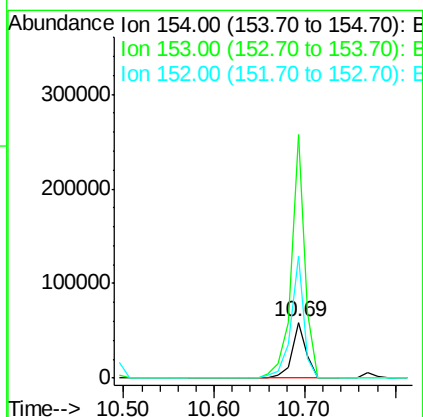
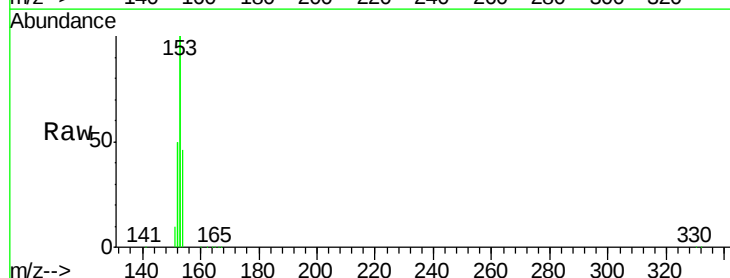
RT: 10.69 min Scan# 2039

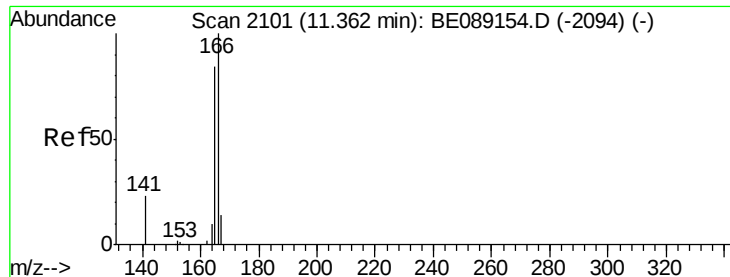
Delta R.T. -0.01 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Tgt Ion:	154	Resp:	64946
Ion Ratio	Lower	Upper	
154	100		
153	411.6	325.8	488.6
152	199.8	157.4	236.0





#11

Fluorene

Concen: 7.89 ng

RT: 11.34 min Scan# 2098

Delta R.T. -0.02 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

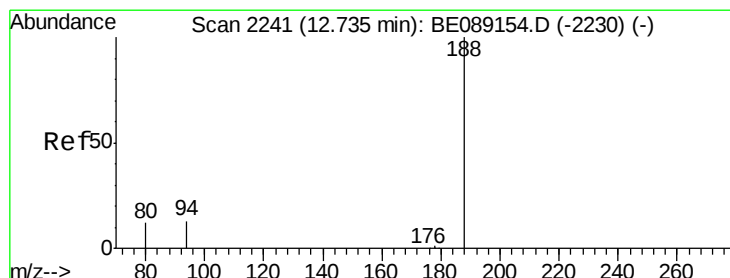
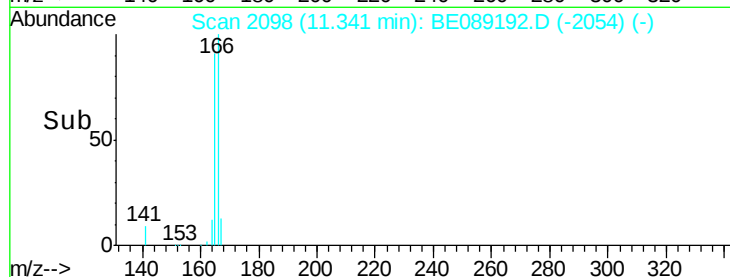
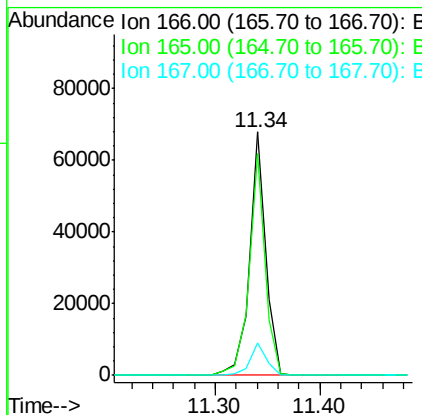
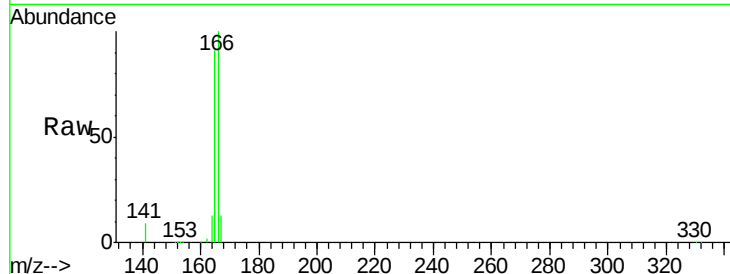
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Tgt Ion:	166	Resp:	72483
Ion Ratio	Lower	Upper	
166	100		
165	89.5	72.2	108.2
167	13.4	10.9	16.3



#12

Phenanthrene-d10

Concen: 5.00 ng

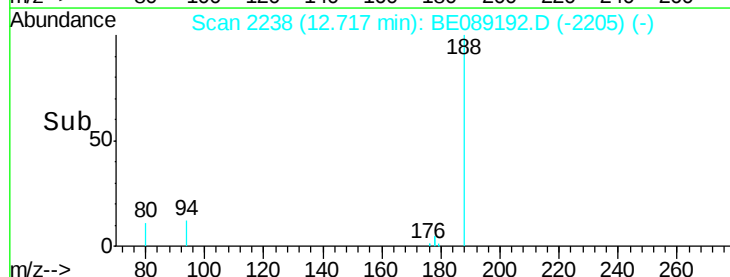
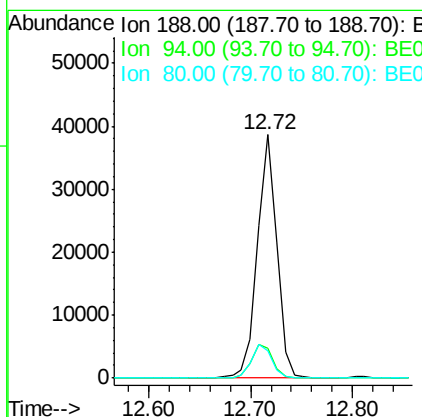
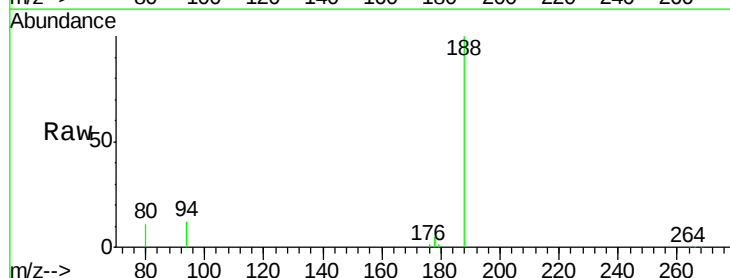
RT: 12.72 min Scan# 2238

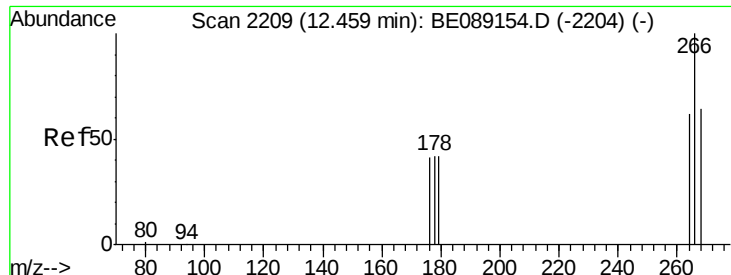
Delta R.T. -0.02 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Tgt Ion:	188	Resp:	50310
Ion Ratio	Lower	Upper	
188	100		
94	12.4	10.6	16.0
80	11.3	9.9	14.9





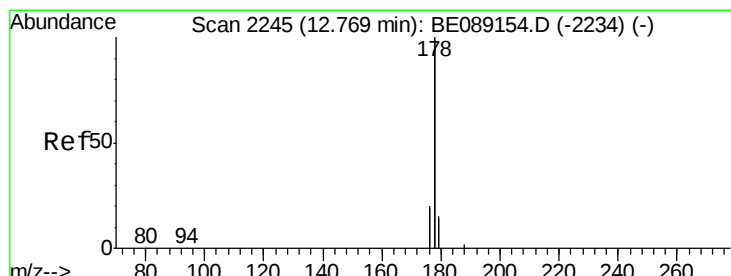
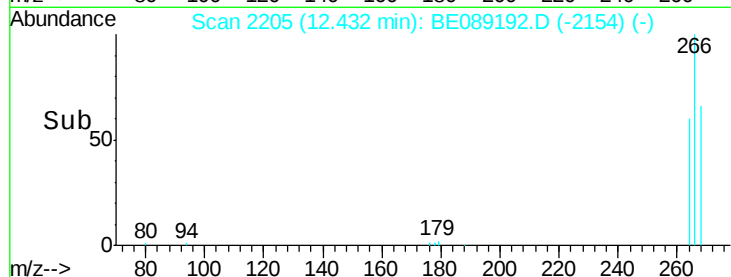
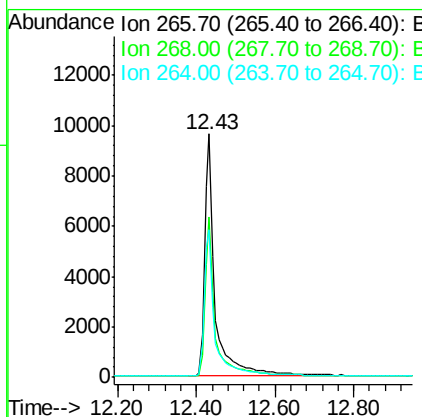
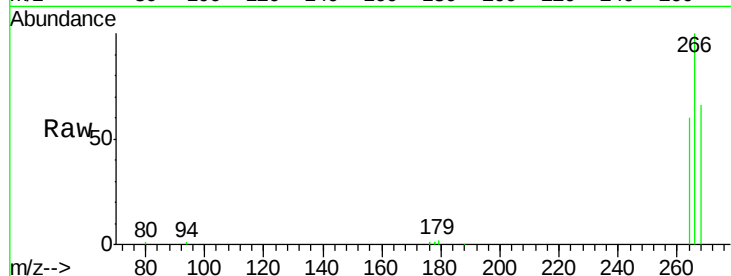
#13
 Pentachlorophenol
 Concen: 16.50 ng
 RT: 12.43 min Scan# 2205
 Delta R.T. -0.03 min
 Lab File: BE089192.D
 Acq: 9 Dec 2014 18:08

Instrument :
 BNA_E
 ClientSampleId :
 PB80762BSD

Tgt Ion	Ratio	Lower	Upper
266	100		
268	66.0	56.1	84.1
264	60.5	55.1	82.7

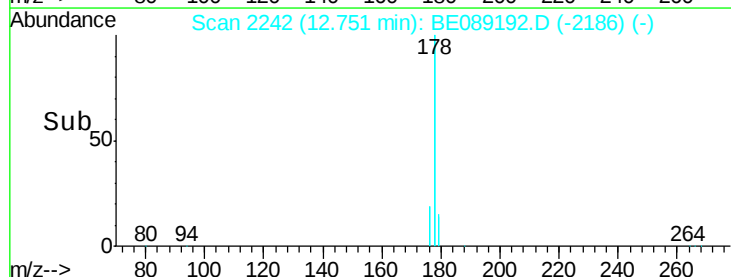
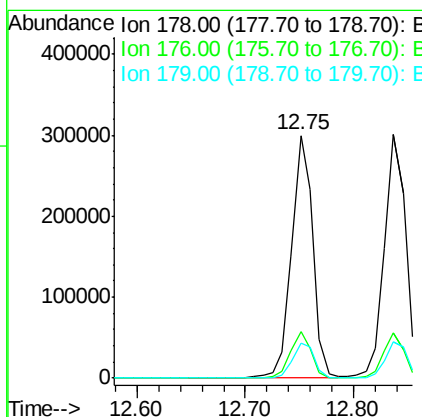
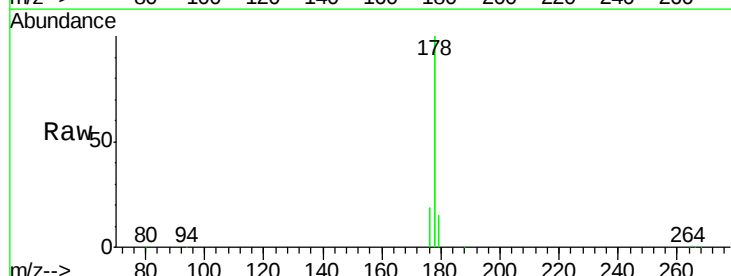
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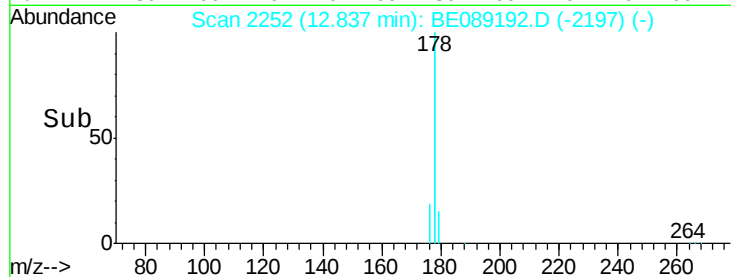
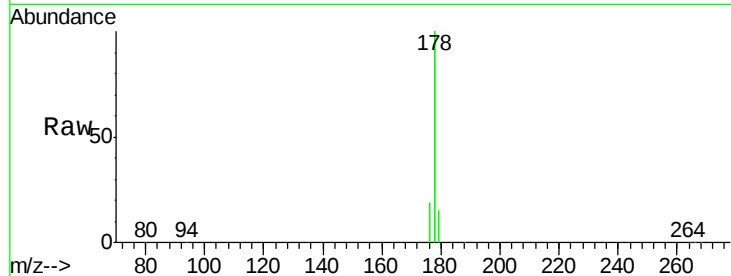
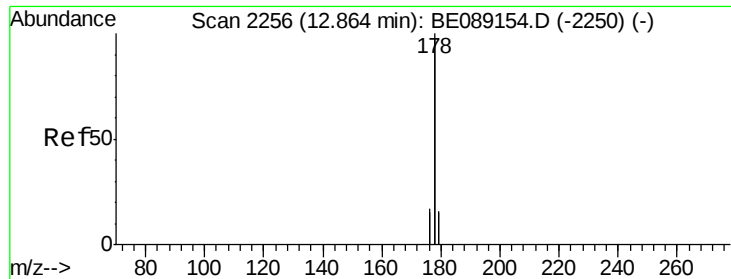
mohammad
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#14
 Phenanthrene
 Concen: 8.47 ng
 RT: 12.75 min Scan# 2242
 Delta R.T. -0.02 min
 Lab File: BE089192.D
 Acq: 9 Dec 2014 18:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.7	22.1
179	15.2	12.2	18.4





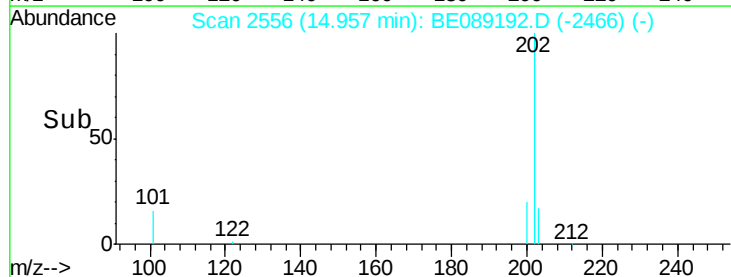
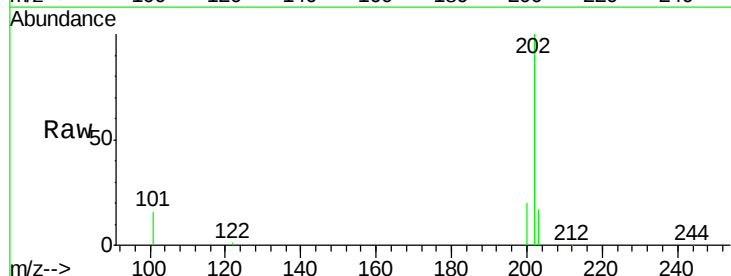
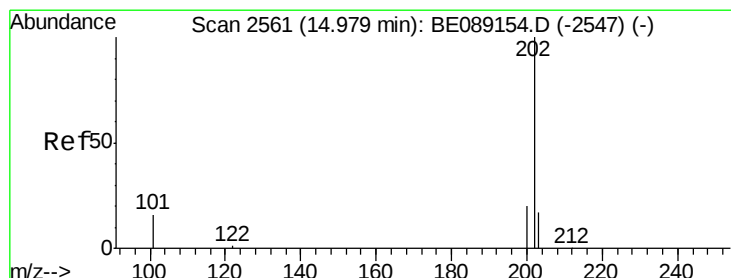
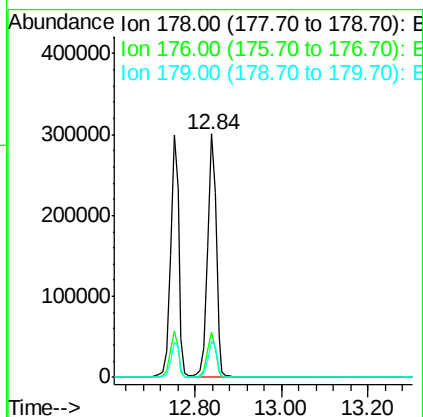
#15
 Anthracene
 Concen: 8.82 ng
 RT: 12.84 min Scan# 2252
 Delta R.T. -0.03 min
 Lab File: BE089192.D
 Acq: 9 Dec 2014 18:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.2	21.2
179	15.1	12.1	18.1

Instrument :
 BNA_E
 ClientSampleId :
 PB80762BSD

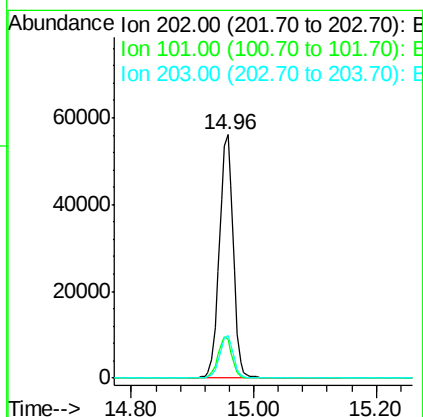
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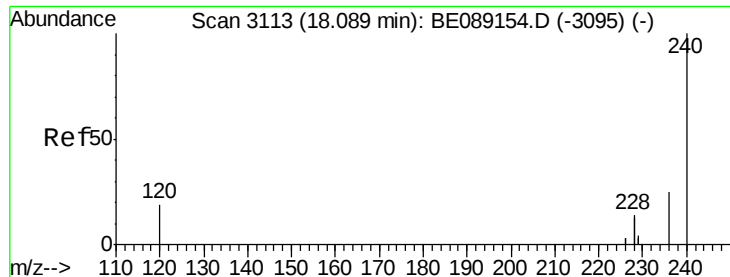
mohammad
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#16
 Fluoranthene
 Concen: 8.62 ng
 RT: 14.96 min Scan# 2556
 Delta R.T. -0.02 min
 Lab File: BE089192.D
 Acq: 9 Dec 2014 18:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.8	13.3	19.9
203	17.2	13.7	20.5





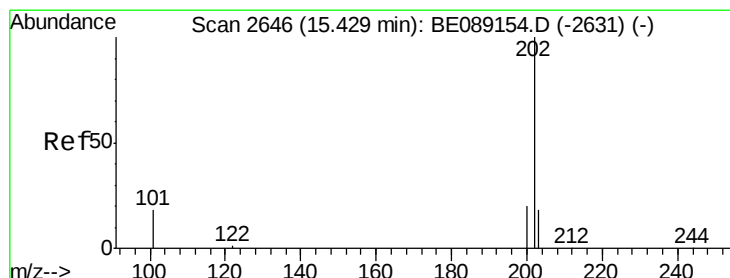
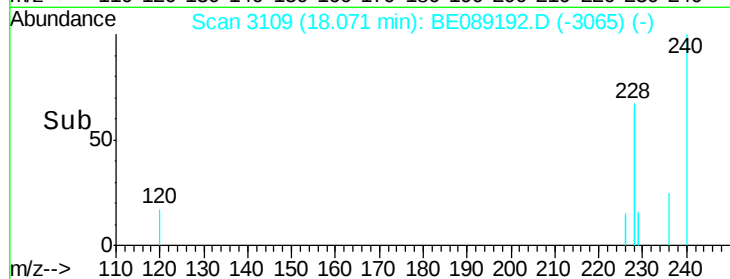
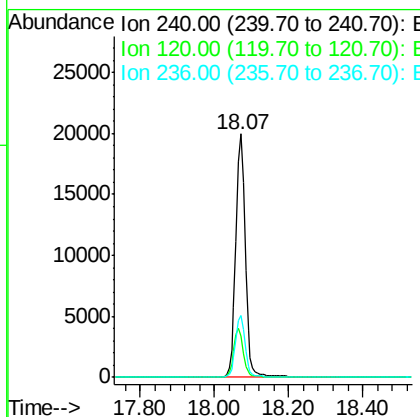
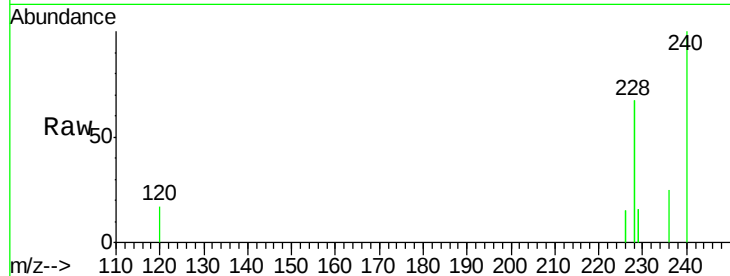
#17
Chrysene-d12
Concen: 5.00 ng
RT: 18.07 min Scan# 3109
Delta R.T. -0.02 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

Instrument :
BNA_E
ClientSampleId :
PB80762BSD

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.2	15.5	23.3
236	25.4	20.3	30.5

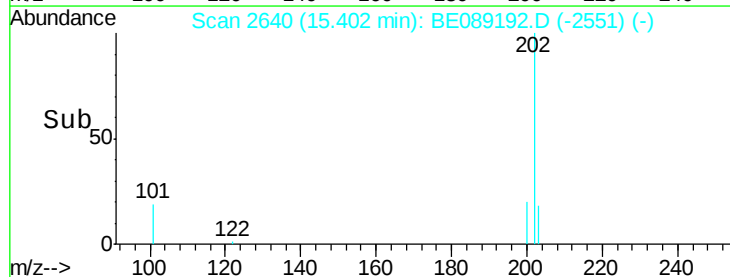
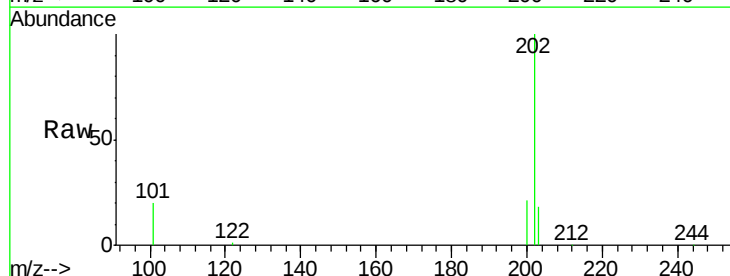
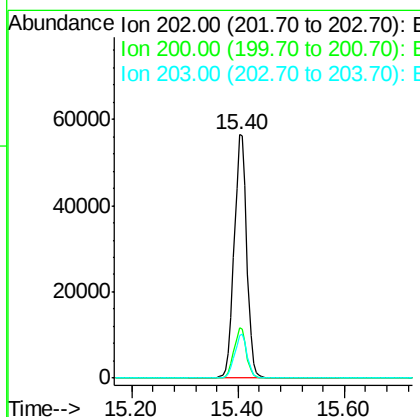
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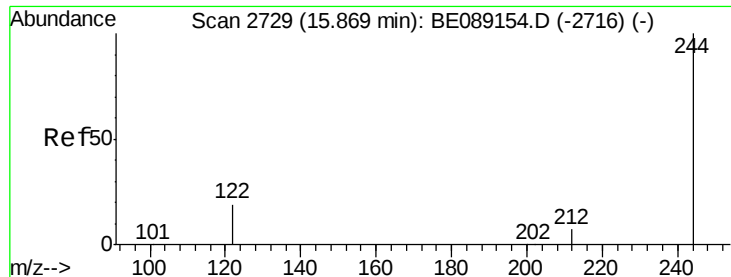
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#18
Pyrene
Concen: 8.75 ng
RT: 15.40 min Scan# 2640
Delta R.T. -0.03 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.2	24.2
203	17.9	14.0	21.0





#19

Terphenyl-d14

Concen: 7.98 ng

RT: 15.85 min Scan# 2724

Delta R.T. -0.02 min

Lab File: BE089192.D

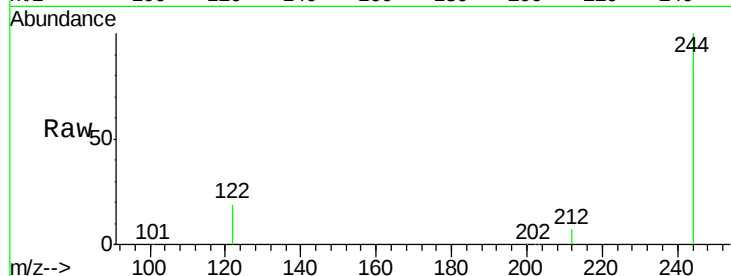
Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

ClientSampleId :

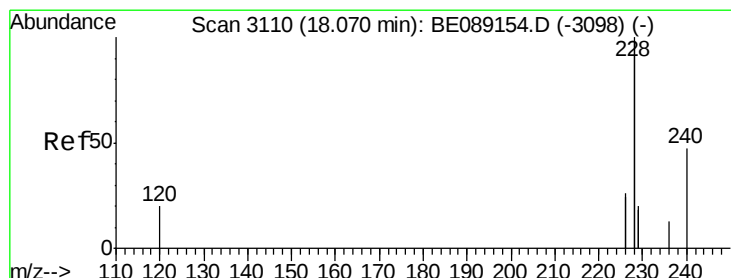
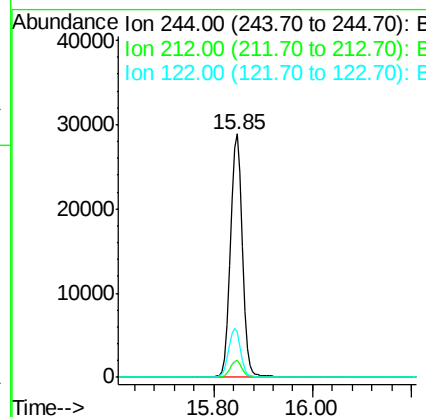
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Tgt Ion:	244	Resp:	49302
Ion Ratio	Lower	Upper	
244	100		
212	6.9	6.2	9.2
122	18.7	16.2	24.2

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#20

Benzo(a)anthracene

Concen: 9.02 ng

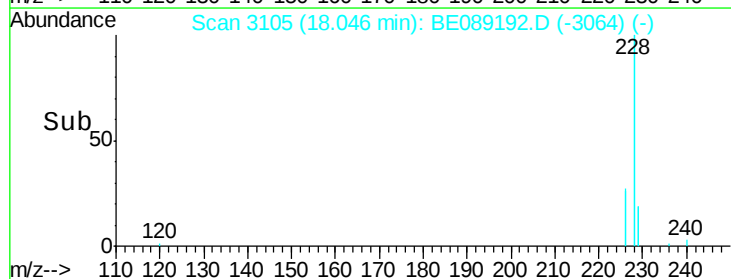
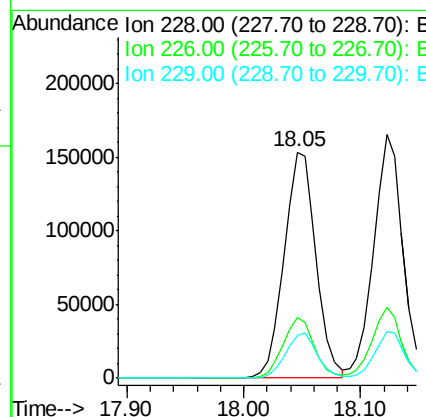
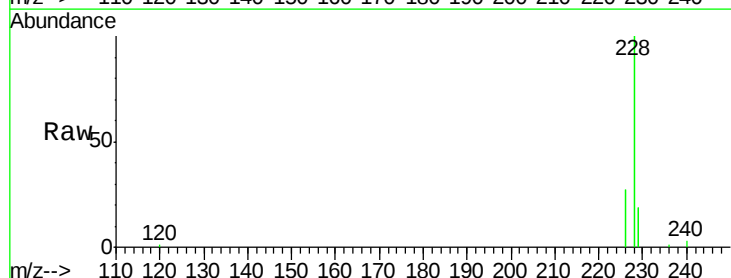
RT: 18.05 min Scan# 3105

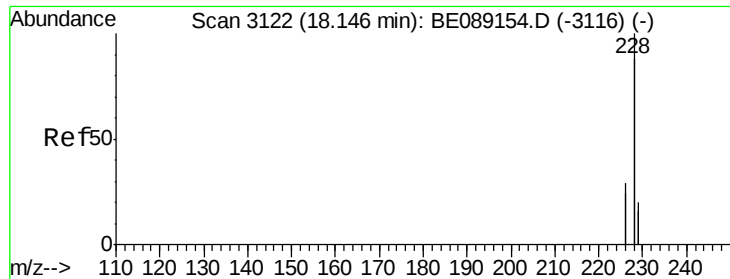
Delta R.T. -0.02 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Tgt Ion:	228	Resp:	290206
Ion Ratio	Lower	Upper	
228	100		
226	26.7	21.0	31.4
229	19.1	16.0	24.0





#21

Chrysene

Concen: 9.07 ng

RT: 18.12 min Scan# 3117

Delta R.T. -0.02 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

Instrument :

BNA_E

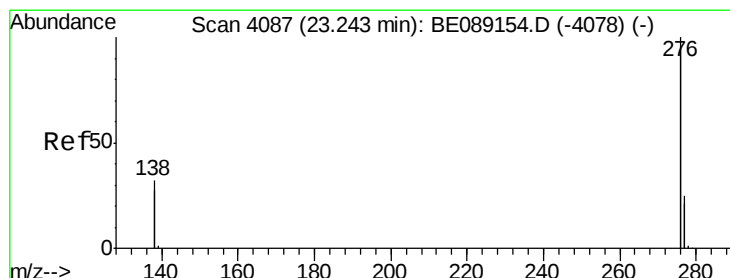
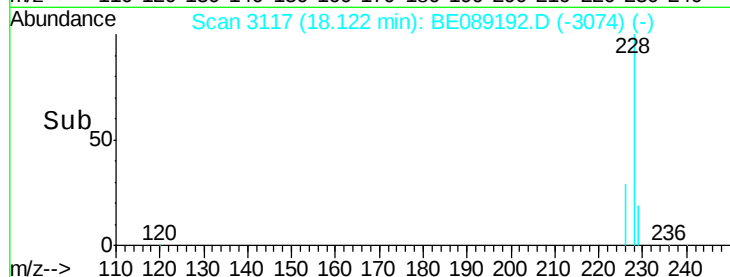
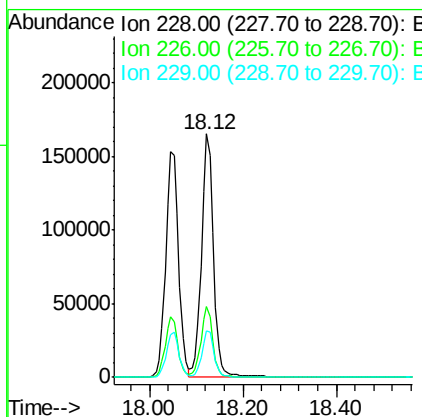
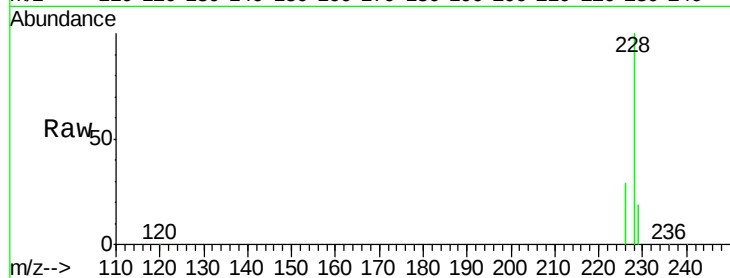
ClientSampleId :

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Tgt Ion:	228	Resp:	293042
Ion Ratio		Lower	Upper
228	100		
226	29.3	22.8	34.2
229	19.0	16.2	24.4

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#22

Indeno(1,2,3-cd)pyrene

Concen: 9.99 ng m

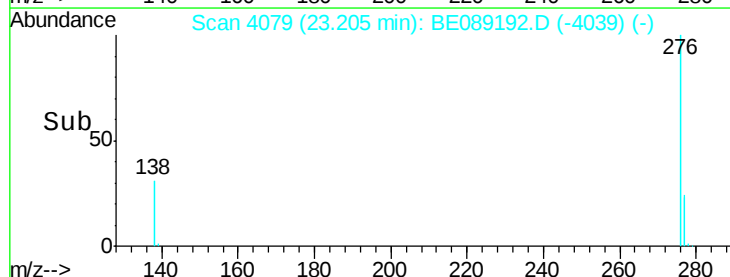
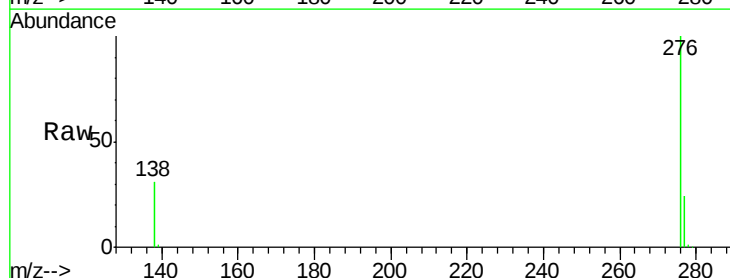
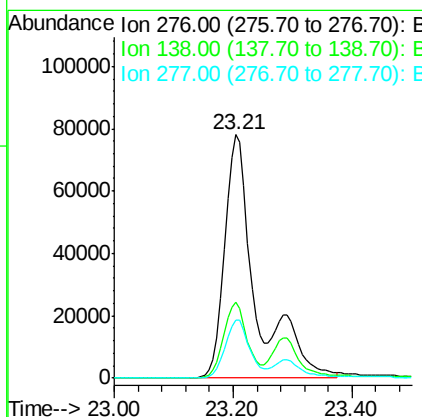
RT: 23.21 min Scan# 4079

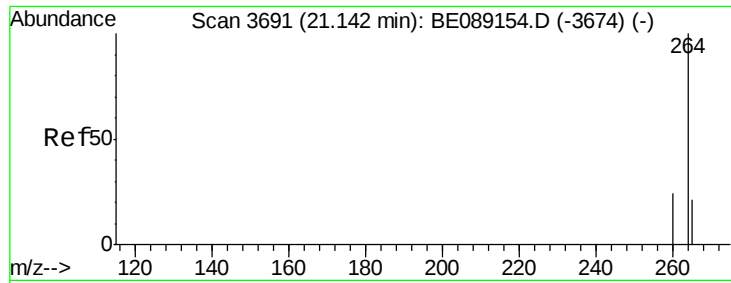
Delta R.T. -0.04 min

Lab File: BE089192.D

Acq: 9 Dec 2014 18:08

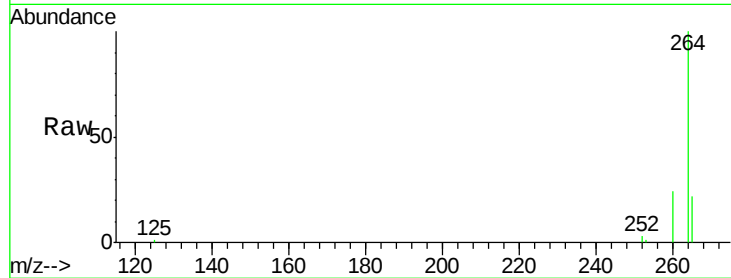
Tgt Ion:	276	Resp:	284355
Ion Ratio		Lower	Upper
276	100		
138	22.9	17.8	26.8
277	18.2	14.1	21.1





#23
Perylene-d12
Concen: 5.00 ng
RT: 21.11 min Scan# 3683
Delta R.T. -0.03 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

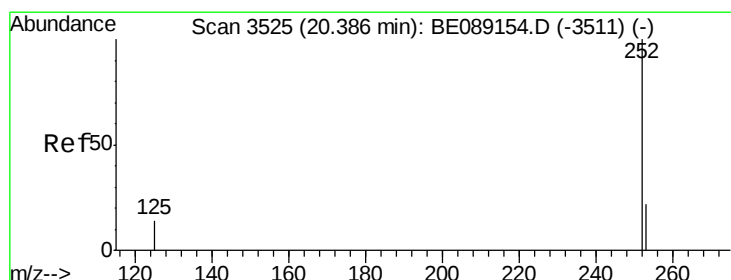
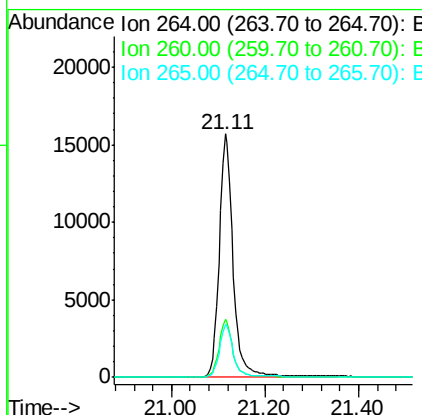
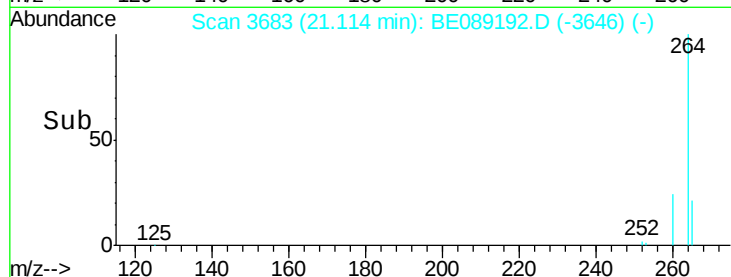
Instrument :
BNA_E
ClientSampleId :
PB80762BSD



Tgt Ion: 264 Resp: 31706
Ion Ratio Lower Upper
264 100
260 23.8 19.2 28.8
265 21.7 17.2 25.8

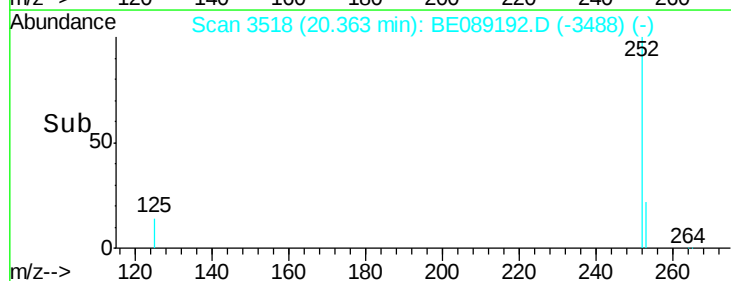
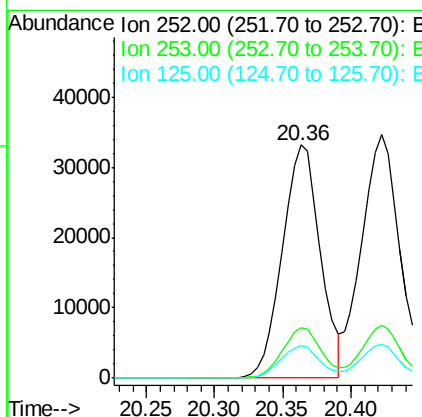
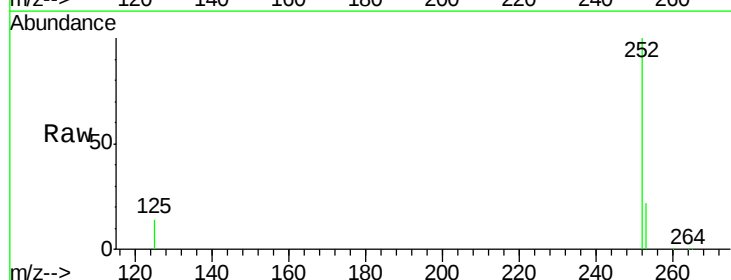
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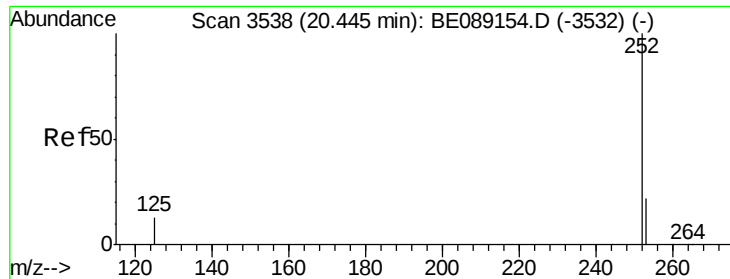
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#24
Benzo(b)fluoranthene
Concen: 9.57 ng
RT: 20.36 min Scan# 3518
Delta R.T. -0.02 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

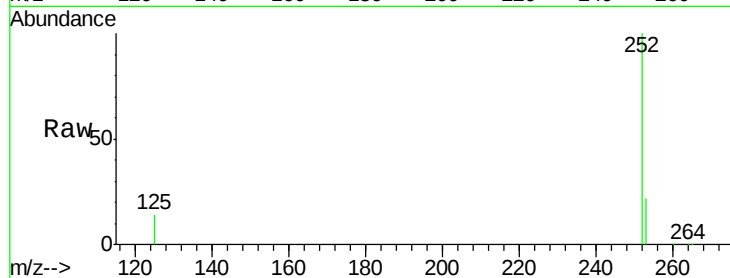
Tgt Ion: 252 Resp: 63950
Ion Ratio Lower Upper
252 100
253 21.7 18.0 27.0
125 13.9 12.2 18.2





#25
Benzo(k)fluoranthene
Concen: 9.09 ng
RT: 20.42 min Scan# 3531
Delta R.T. -0.02 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

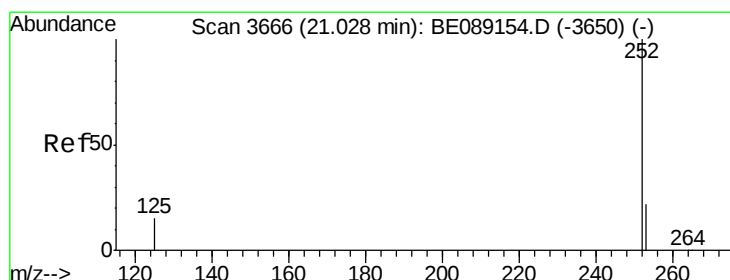
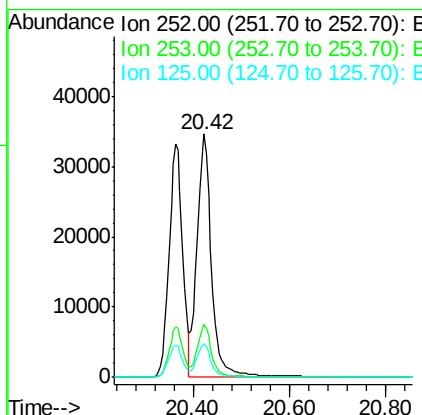
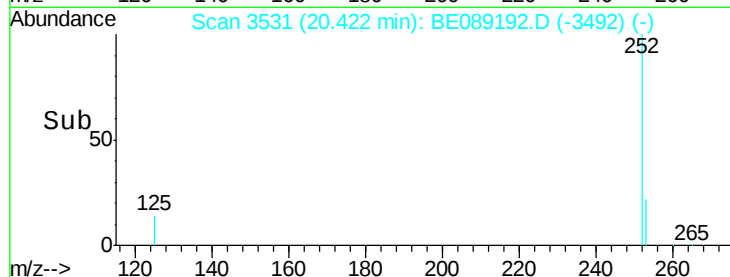
Instrument :
BNA_E
ClientSampleId :
PB80762BSD



Tgt Ion: 252 Resp: 71734
Ion Ratio Lower Upper
252 100
253 21.7 18.2 27.2
125 14.0 11.9 17.9

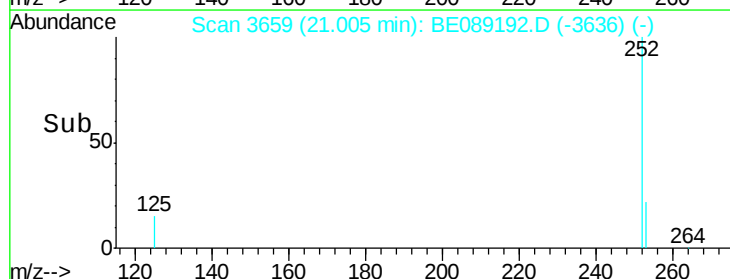
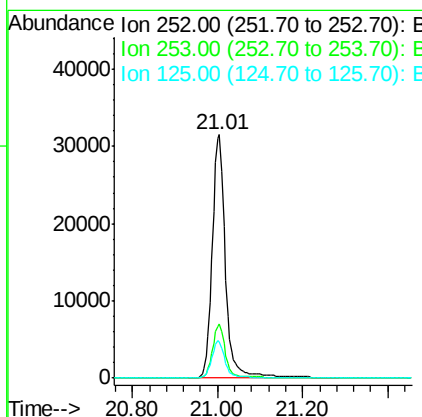
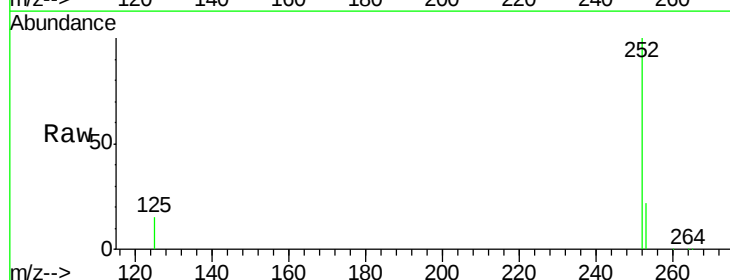
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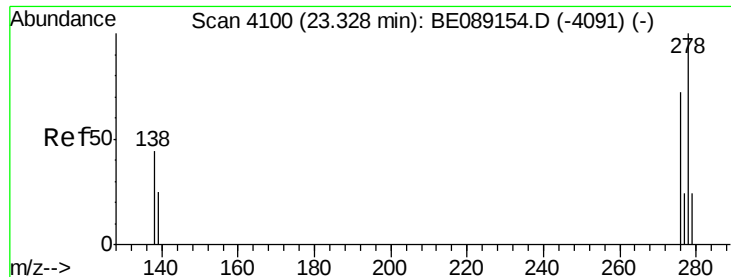
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#26
Benzo(a)pyrene
Concen: 10.05 ng
RT: 21.01 min Scan# 3659
Delta R.T. -0.02 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

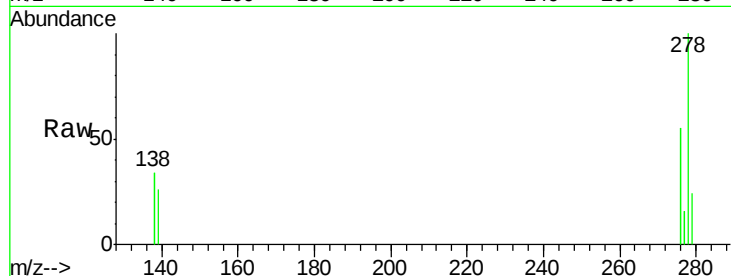
Tgt Ion: 252 Resp: 65471
Ion Ratio Lower Upper
252 100
253 22.1 18.6 27.8
125 15.0 13.4 20.0





#27
Dibenzo(a,h)anthracene
Concen: 10.04 ng
RT: 23.29 min Scan# 4092
Delta R.T. -0.04 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08

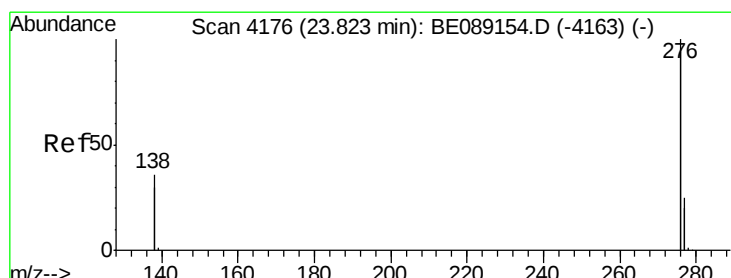
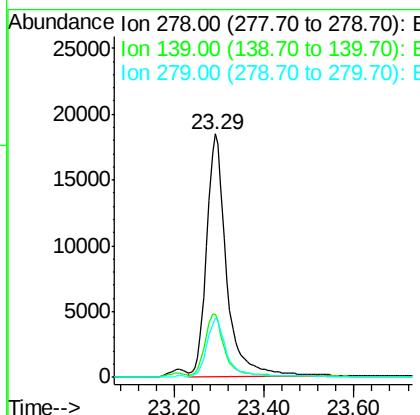
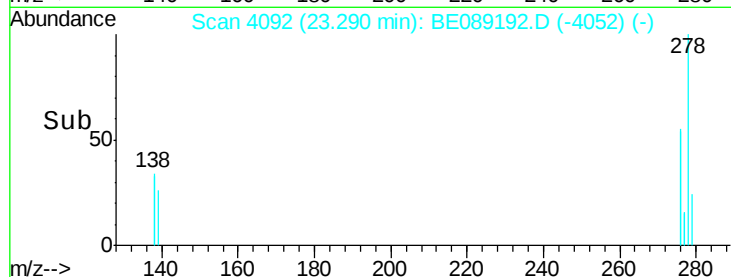
Instrument :
BNA_E
ClientSampleId :
PB80762BSD



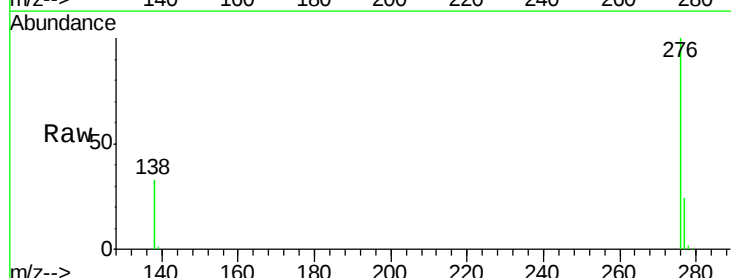
Tgt Ion: 278 Resp: 56646
Ion Ratio Lower Upper
278 100
139 26.0 22.0 33.0
279 24.2 20.6 31.0

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#28
Benzo(g,h,i)perylene
Concen: 9.13 ng
RT: 23.79 min Scan# 4169
Delta R.T. -0.03 min
Lab File: BE089192.D
Acq: 9 Dec 2014 18:08



Tgt Ion: 276 Resp: 247729
Ion Ratio Lower Upper
276 100
277 23.8 19.9 29.9
138 33.4 28.7 43.1

