

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010515\
 Data File : BE089322.D
 Acq On : 5 Jan 2015 19:48
 Operator : TP/IZ
 Sample : PB81193BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81193BSD

Manual Integrations
 APPROVED

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 1/7/2015 9:24:52 AM

Quant Time: Jan 06 13:38:15 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIM-BE121914.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 20 00:43:57 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	29118	5.00	ng	0.00
7) Naphthalene-d8	8.50	136	113395	5.00	ng	0.00
13) Acenaphthene-d10	10.65	164	52946	5.00	ng	0.00
17) Phenanthrene-d10	12.71	188	79708	5.00	ng	0.00
20) Chrysene-d12	18.06	240	55402	5.00	ng	0.00
27) Perylene-d12	21.10	264	48657	5.00	ng	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.26	112	92431	14.60	ng	0.00
4) Phenol-d6	6.55	99	114697	12.05	ng	0.00
8) Nitrobenzene-d5	7.64	82	64187	7.56	ng	0.00
14) 2,4,6-Tribromophenol	11.66	330	21317	14.88	ng	0.00
15) 2-Fluorobiphenyl	9.85	172	104142	6.94	ng	0.00
22) Terphenyl-d14	15.84	244	70931	7.17	ng	0.00
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.69	42	35956	9.46	ng	# 80
5) Phenol	6.56	94	84009	7.38	ng	97
6) bis(2-Chloroethyl)ether	6.65	93	67588	7.70	ng	# 84
9) Nitrobenzene	7.66	77	67669	7.68	ng	99
10) 2,4-Dimethylphenol	8.14	122	49951	7.55	ng	88
11) 2,4-Dichlorophenol	8.36	162	44202	7.98	ng	93
12) Hexachlorobutadiene	8.68	225	23000	7.35	ng	100
16) 2,4-Dinitrophenol	10.77	184	21595	37.67	ng	# 51
18) Hexachlorobenzene	12.09	284	28100	7.32	ng	# 82
19) Pentachlorophenol	12.42	266	24969	27.41	ng	92
21) Benzidine	15.32	184	153420	22.01	ng	94
23) Benzo(a)anthracene	18.03	228	403209	8.19	ng	99
24) 3,3'-Dichlorobenzidine	18.10	252	38063	9.61	ng	# 96
25) Chrysene	18.11	228	414466	7.99	ng	99
26) Indeno(1,2,3-cd)pyrene	23.19	276	354515m	8.76	ng	
28) Benzo(b)fluoranthene	20.35	252	83709	9.24	ng	98
29) Benzo(k)fluoranthene	20.41	252	103582	8.38	ng	98
30) Benzo(a)pyrene	20.99	252	84314	9.47	ng	97
31) Dibenzo(a,h)anthracene	23.27	278	67898	8.89	ng	94

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

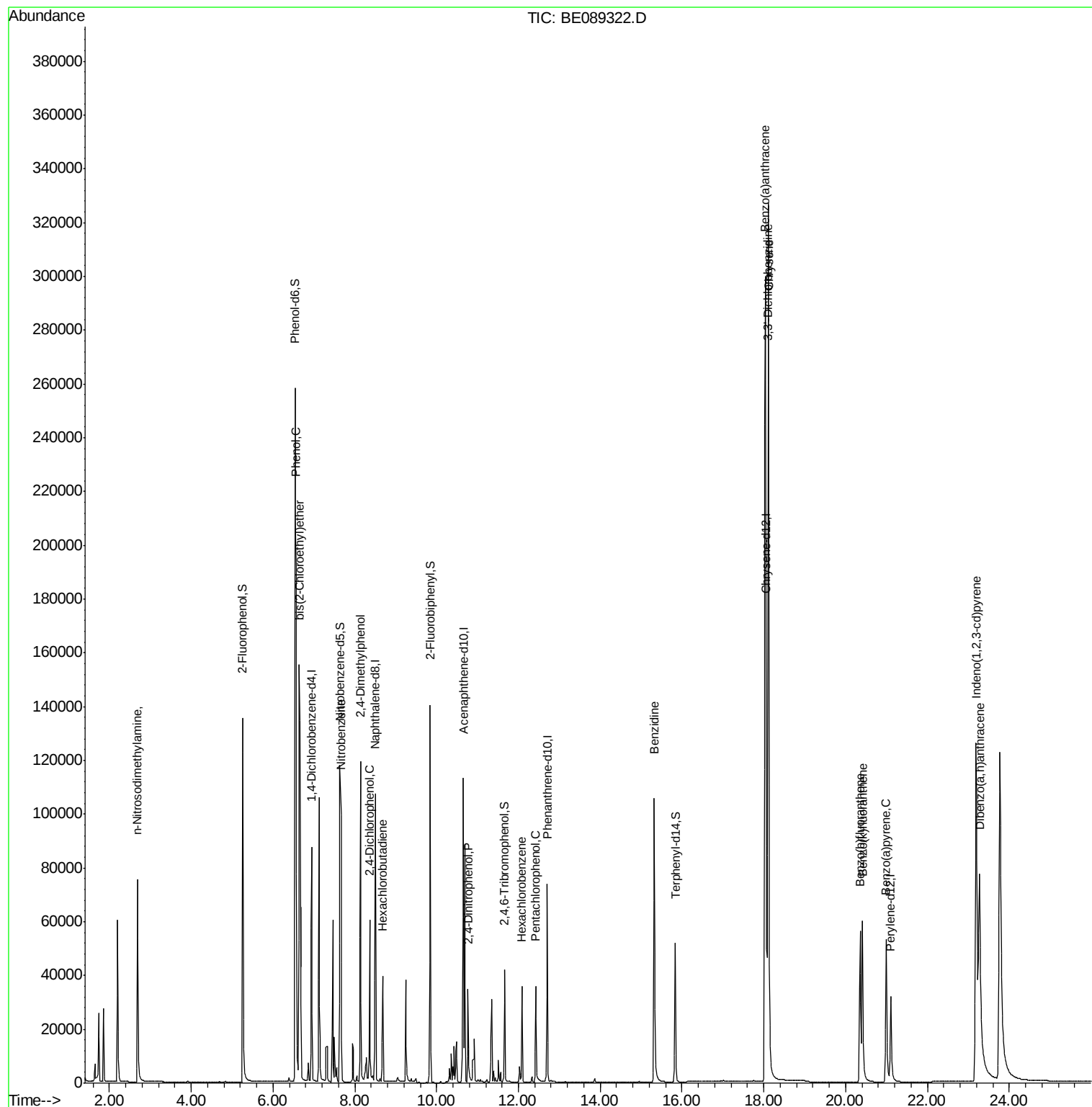
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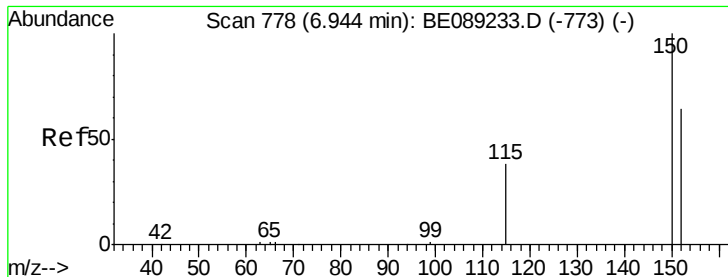
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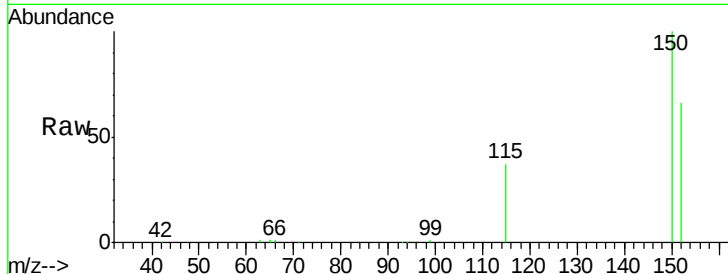




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.94 min Scan# 778
Delta R.T. -0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

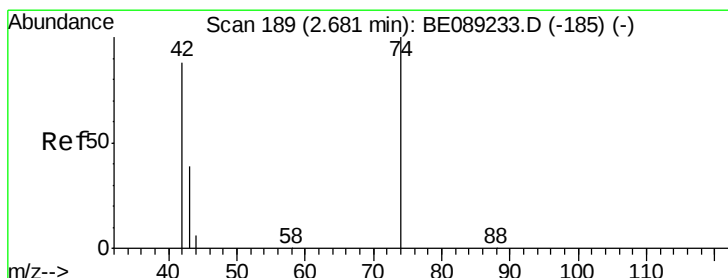
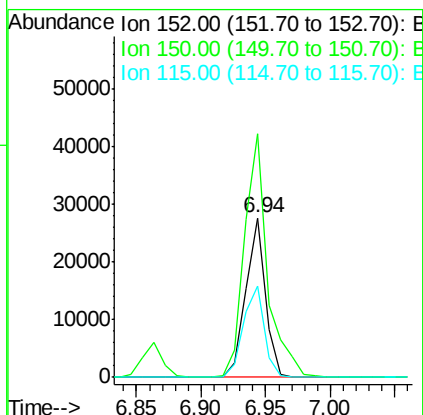
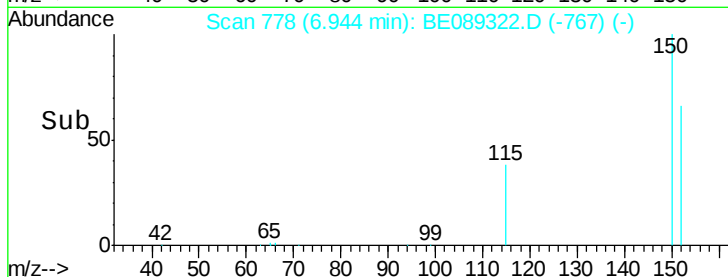
Instrument :
BNA_E
ClientSampleId :
PB81193BSD



Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.6	125.5	188.3
115	56.9	47.4	71.2

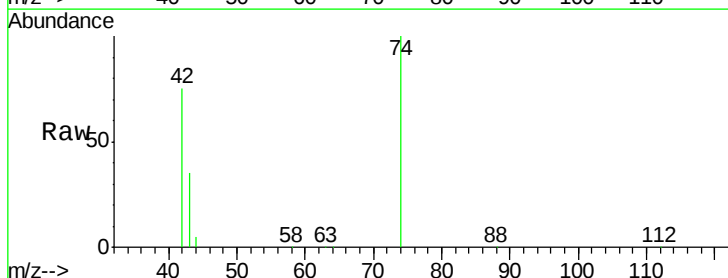
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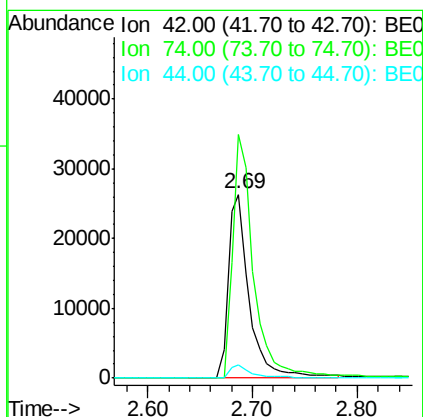
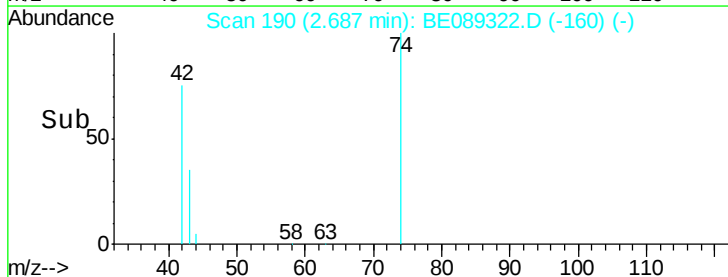


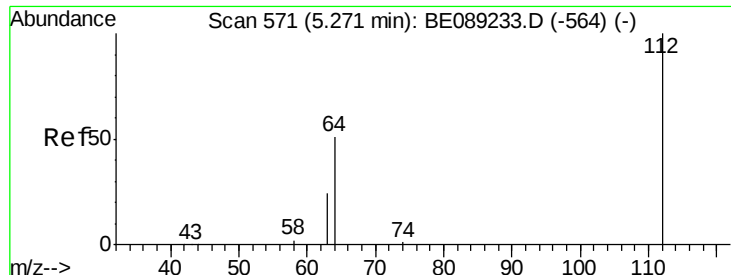
#2

n-Nitrosodimethylamine
Concen: 9.46 ng
RT: 2.69 min Scan# 190
Delta R.T. 0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48



Tgt Ion	Ratio	Lower	Upper
42	100		
74	132.5	89.7	134.5
44	7.1	14.2	21.2#





#3

2-Fluorophenol

Concen: 14.60 ng

RT: 5.26 min Scan# 570

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

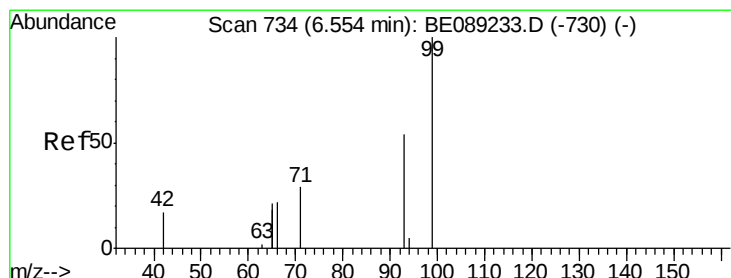
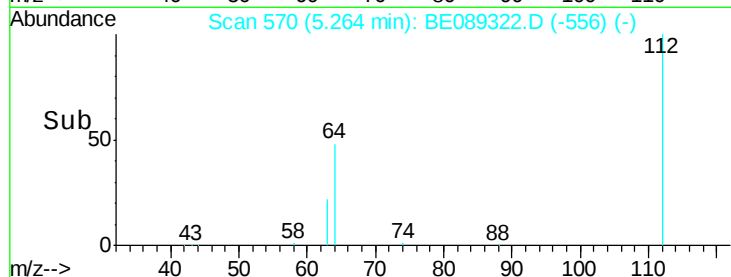
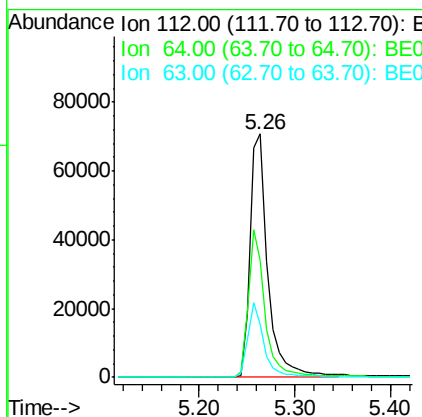
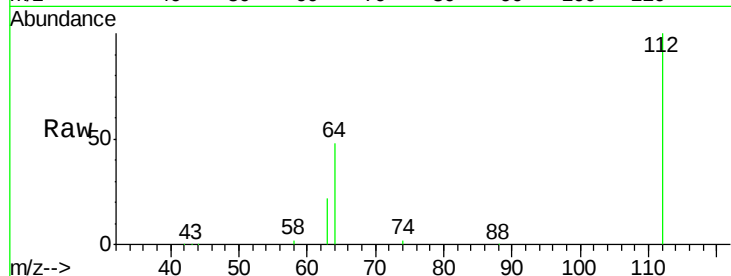
ClientSampleId :

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Tgt Ion:	112	Resp:	92431
Ion Ratio	Lower	Upper	
112	100		
64	47.9	45.4	68.0
63	21.7	23.6	35.4#

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#4

Phenol-d6

Concen: 12.05 ng

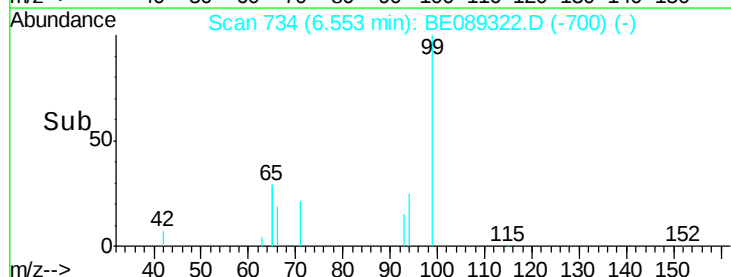
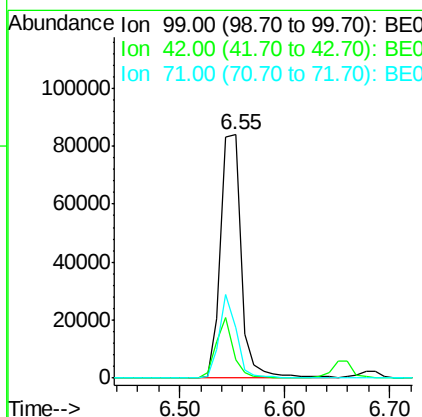
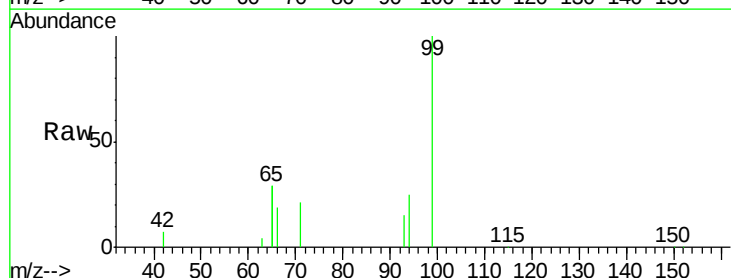
RT: 6.55 min Scan# 734

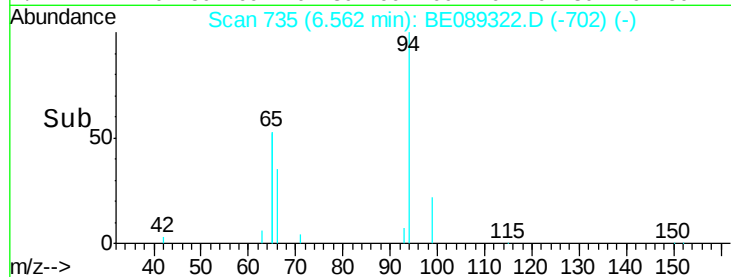
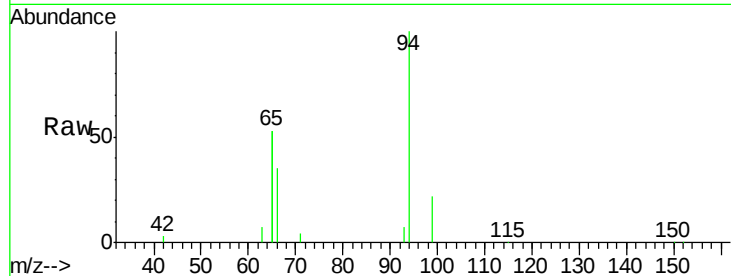
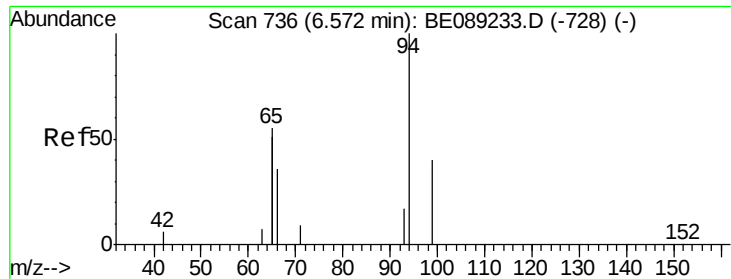
Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Tgt Ion:	99	Resp:	114697
Ion Ratio	Lower	Upper	
99	100		
42	7.4	14.6	22.0#
71	20.7	23.5	35.3#





#5

Phenol

Concen: 7.38 ng

RT: 6.56 min Scan# 735

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

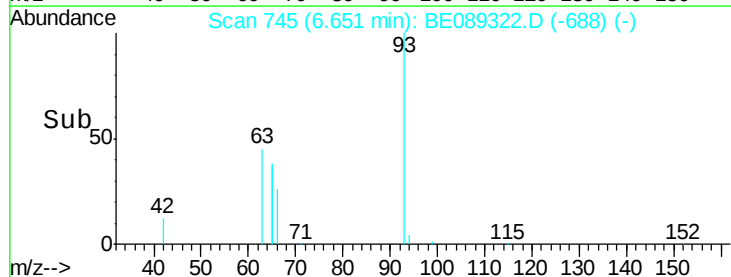
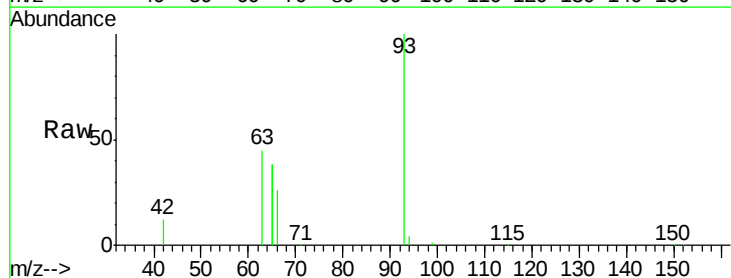
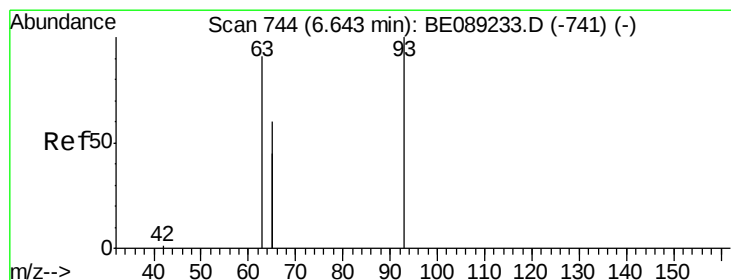
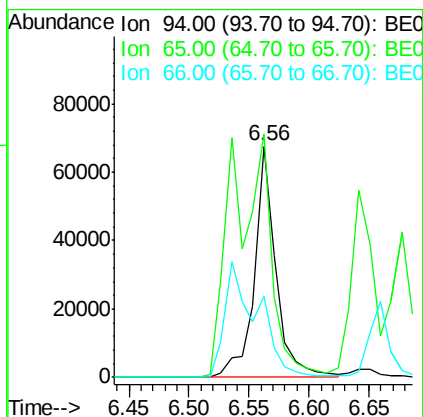
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Tgt Ion:	94	Resp:	84009
Ion	Ratio	Lower	Upper
94	100		
65	105.2	88.8	128.8
66	35.1	16.9	56.9



#6

bis(2-Chloroethyl)ether

Concen: 7.70 ng

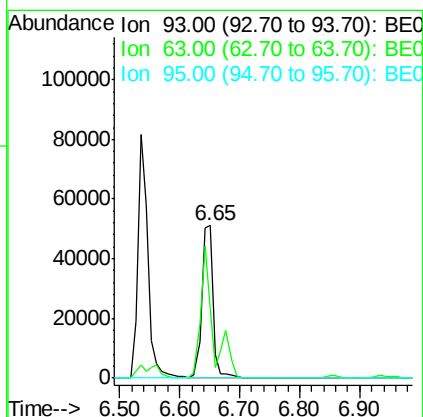
RT: 6.65 min Scan# 745

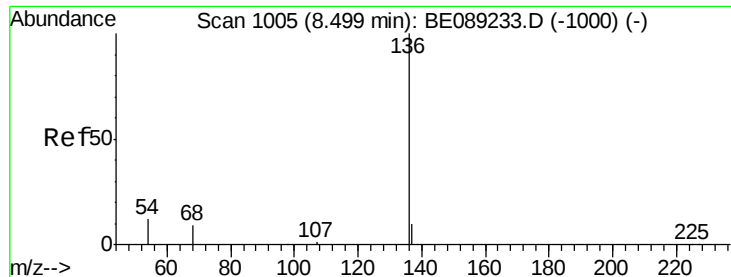
Delta R.T. 0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Tgt Ion:	93	Resp:	67588
Ion	Ratio	Lower	Upper
93	100		
63	78.6	52.8	79.2
95	0.0	0.0	0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 8.50 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

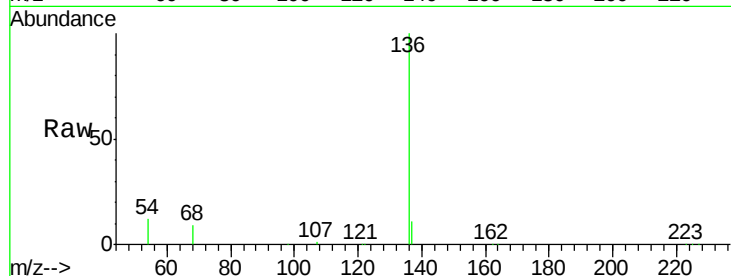
ClientSampleId :

PB81193BSD

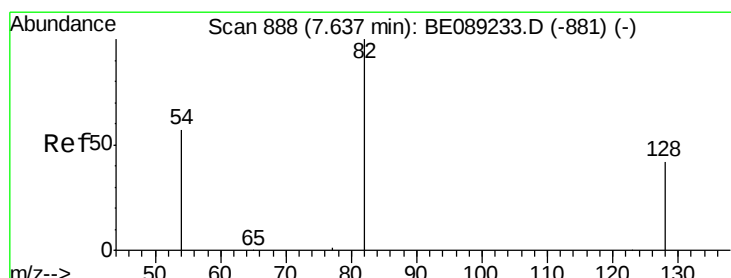
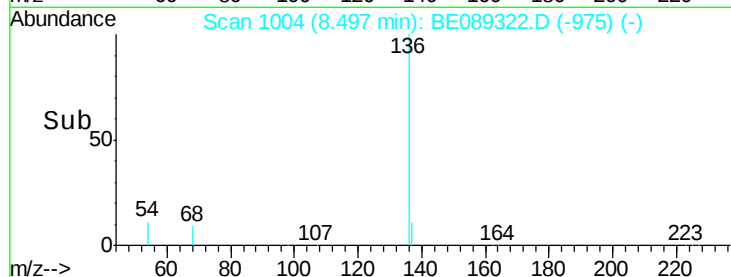
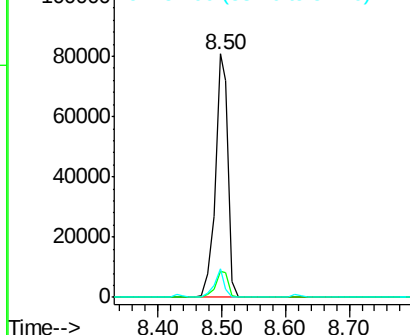
Tgt Ion:	136	Resp:	113395
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.4	12.6
54	11.5	9.4	14.2

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0



#8

Nitrobenzene-d5

Concen: 7.56 ng

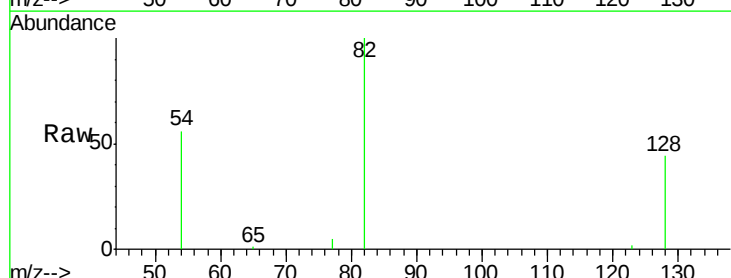
RT: 7.64 min Scan# 888

Delta R.T. -0.00 min

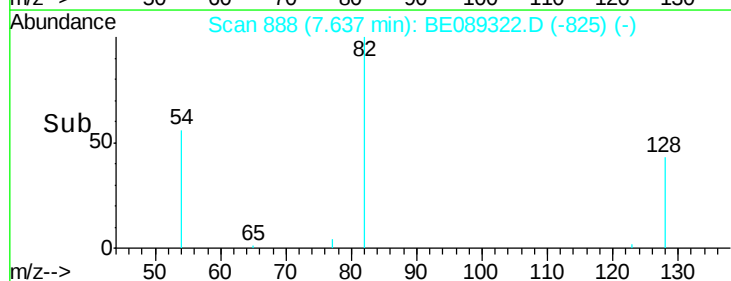
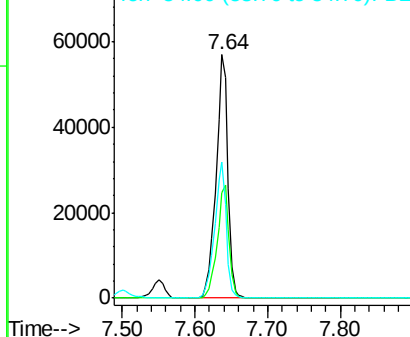
Lab File: BE089322.D

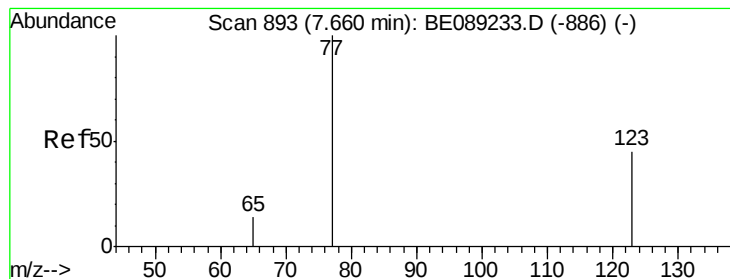
Acq: 5 Jan 2015 19:48

Tgt Ion:	82	Resp:	64187
Ion Ratio	Lower	Upper	
82	100		
128	43.5	34.1	51.1
54	55.9	45.6	68.4



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.68 ng

RT: 7.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: BE089322.D

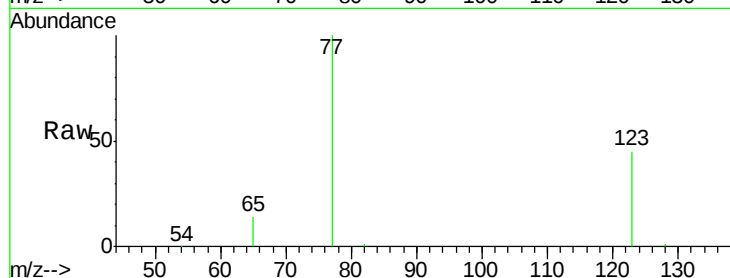
Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

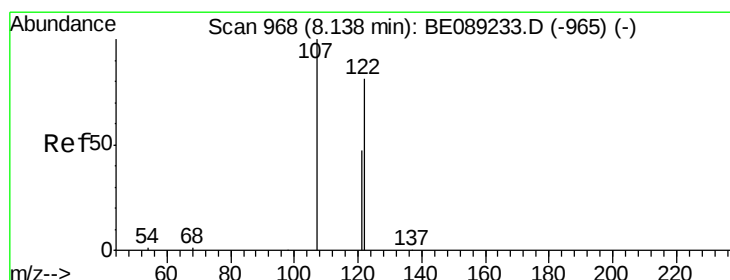
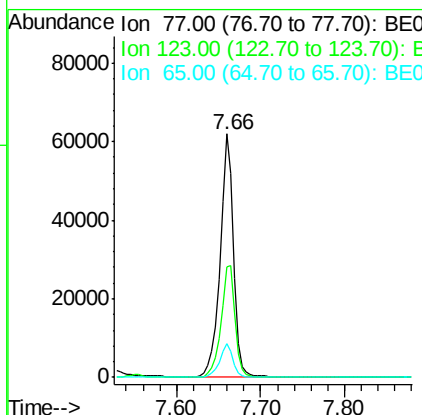
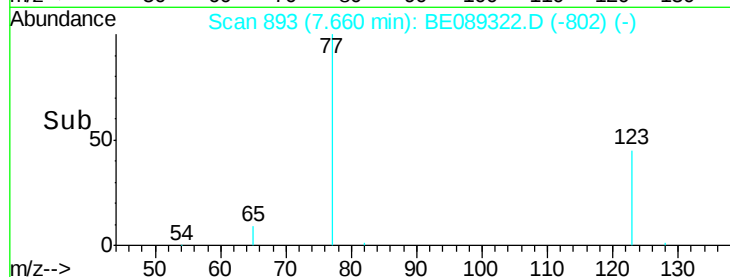
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Tgt Ion:	77	Resp:	67669
Ion	Ratio	Lower	Upper
77	100		
123	48.1	37.8	56.8
65	13.7	10.5	15.7

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#10

2,4-Dimethylphenol

Concen: 7.55 ng

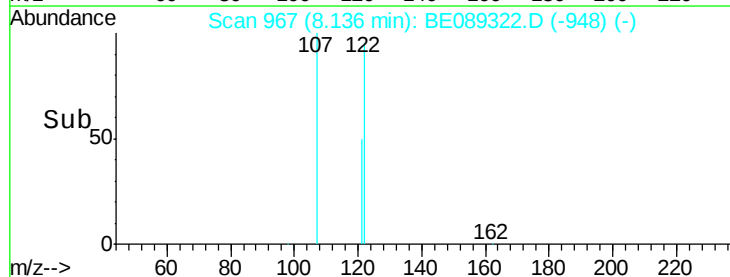
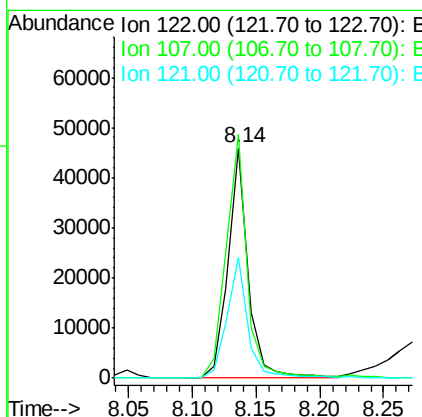
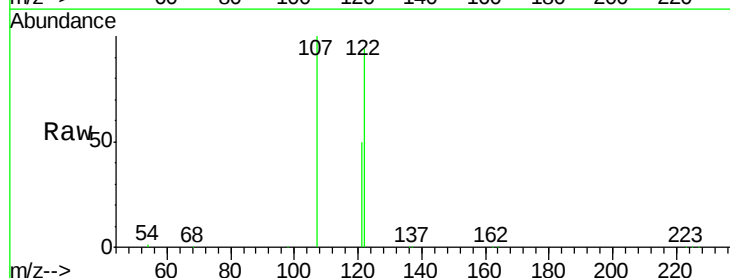
RT: 8.14 min Scan# 967

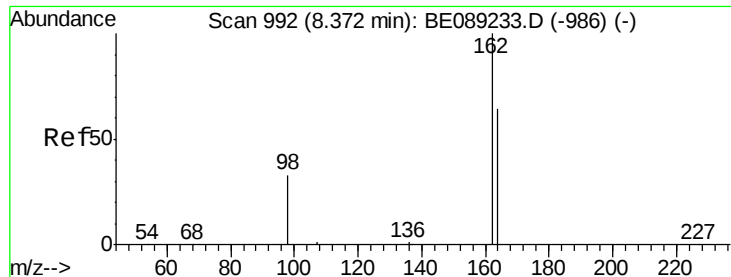
Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Tgt Ion:	122	Resp:	49951
Ion	Ratio	Lower	Upper
122	100		
107	106.0	98.1	147.1
121	52.6	46.6	70.0





#11

2,4-Dichlorophenol

Concen: 7.98 ng

RT: 8.36 min Scan# 990

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

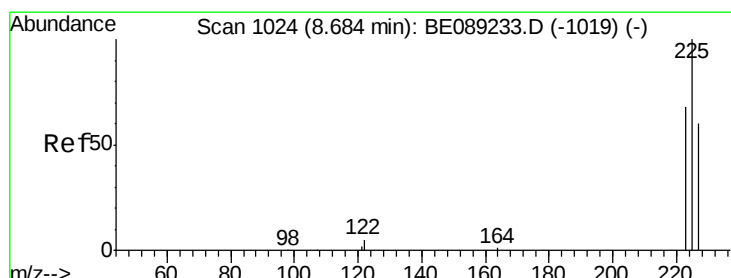
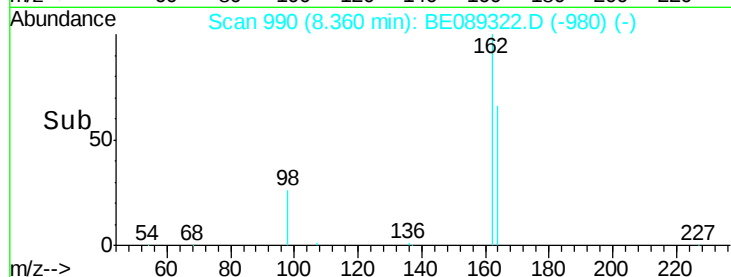
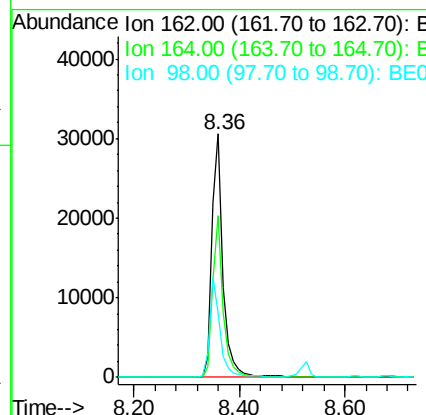
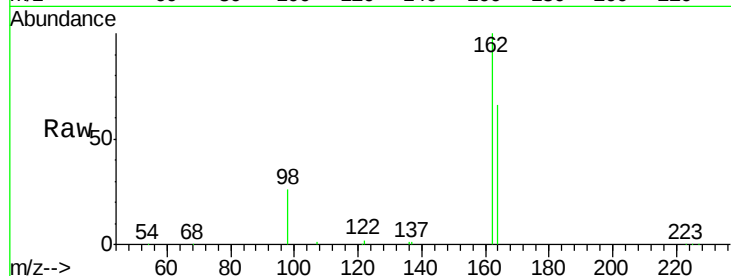
ClientSampleId :

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Tgt Ion:	162	Resp:	44202
Ion Ratio	Lower	Upper	
162	100		
164	66.4	44.3	84.3
98	26.5	14.6	54.6

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#12

Hexachlorobutadiene

Concen: 7.35 ng

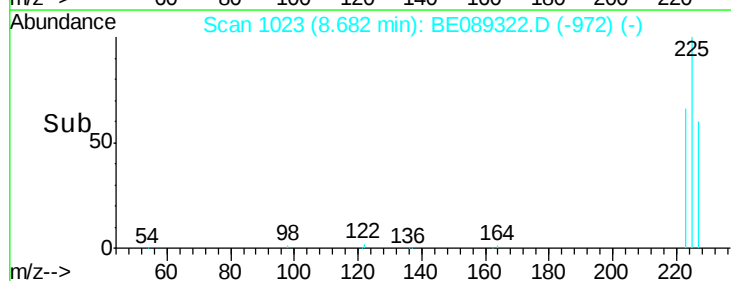
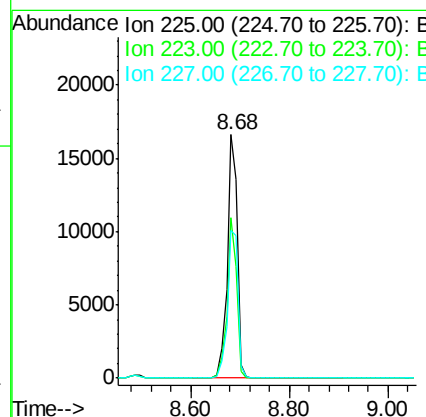
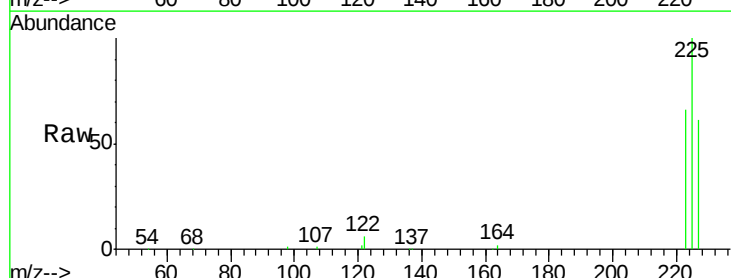
RT: 8.68 min Scan# 1023

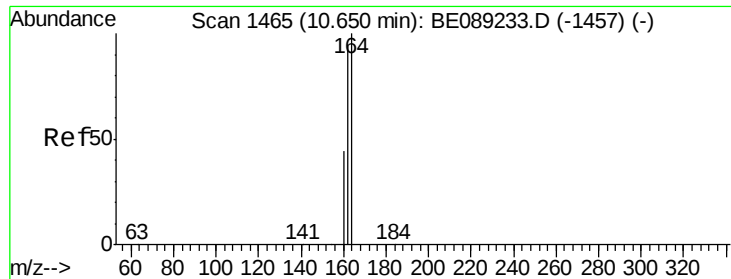
Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

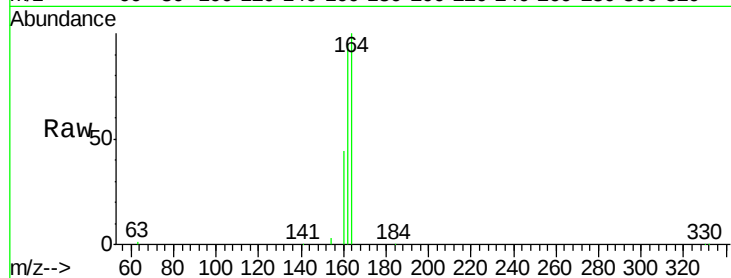
Tgt Ion:	225	Resp:	23000
Ion Ratio	Lower	Upper	
225	100		
223	62.8	50.4	75.6
227	64.1	51.7	77.5





#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 10.65 min Scan# 1464
Delta R.T. -0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

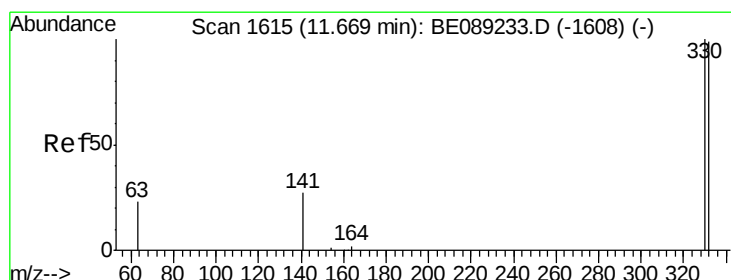
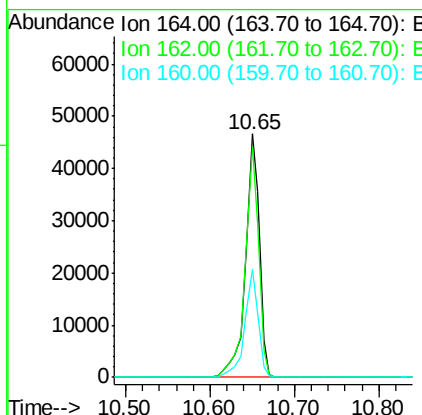
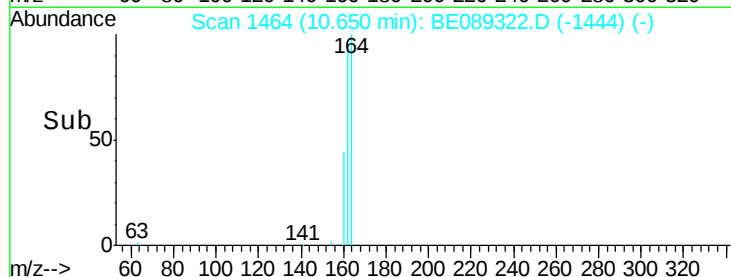
Instrument :
BNA_E
ClientSampleId :
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Tgt Ion:164 Resp: 52946
Ion Ratio Lower Upper
164 100
162 94.7 75.4 113.0
160 44.4 35.6 53.4

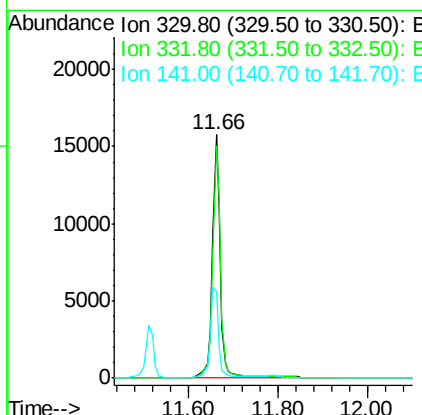
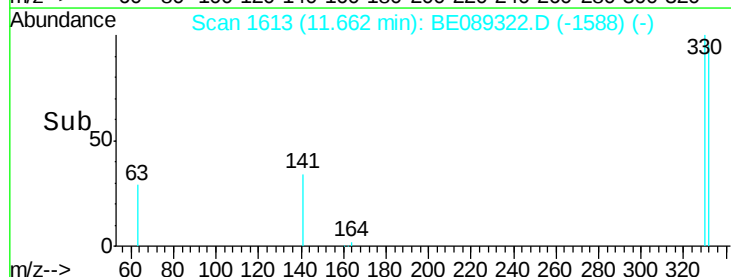
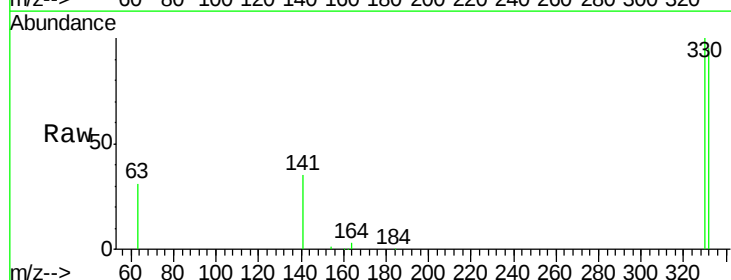
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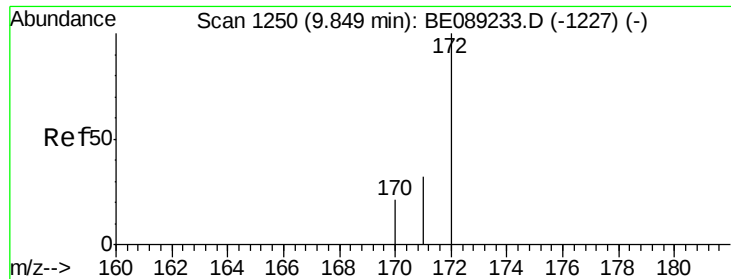
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#14
2,4,6-Tribromophenol
Concen: 14.88 ng
RT: 11.66 min Scan# 1613
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

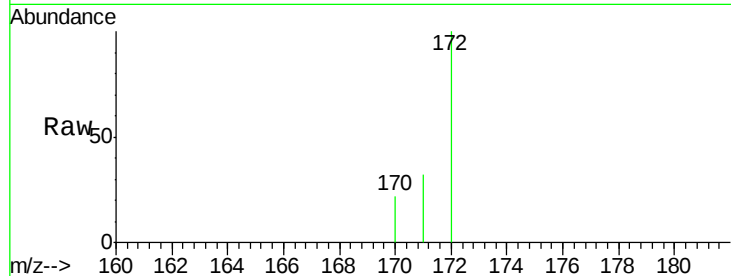
Tgt Ion:330 Resp: 21317
Ion Ratio Lower Upper
330 100
332 87.3 78.1 117.1
141 35.2 29.4 44.0





#15
2-Fluorobiphenyl
Concen: 6.94 ng
RT: 9.85 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

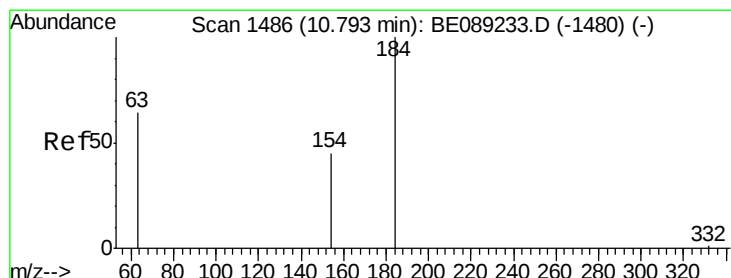
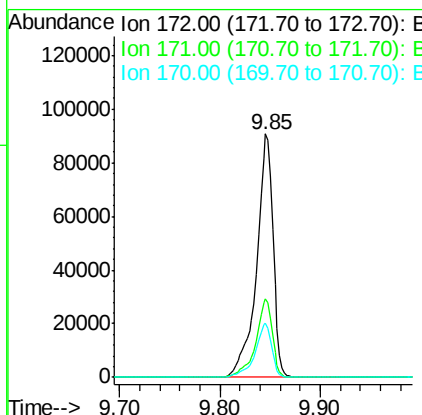
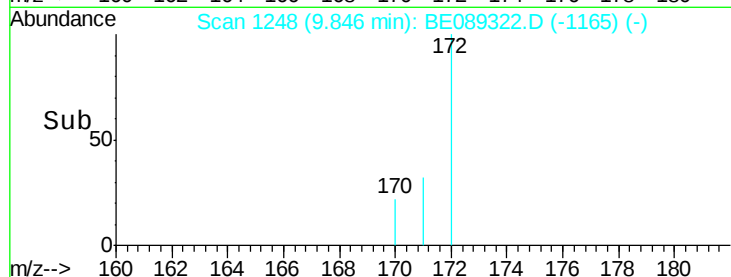
Instrument :
BNA_E
ClientSampleId :
PB81193BSD



Tgt Ion:172 Resp: 104142
Ion Ratio Lower Upper
172 100
171 32.5 25.5 38.3
170 22.4 16.8 25.2

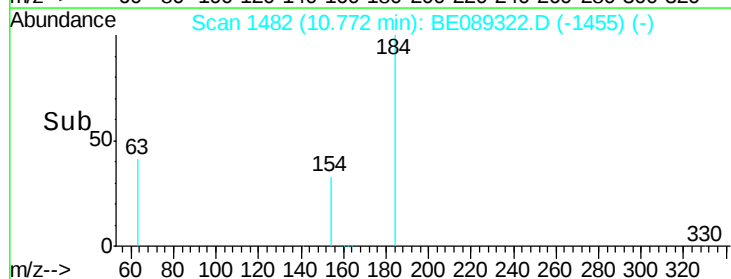
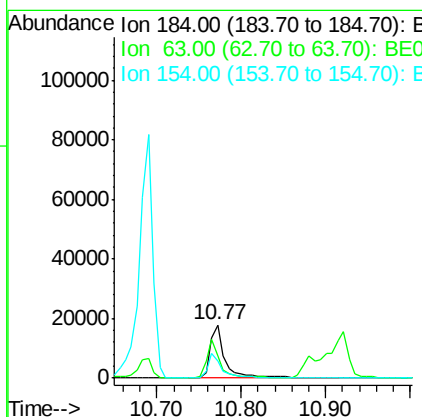
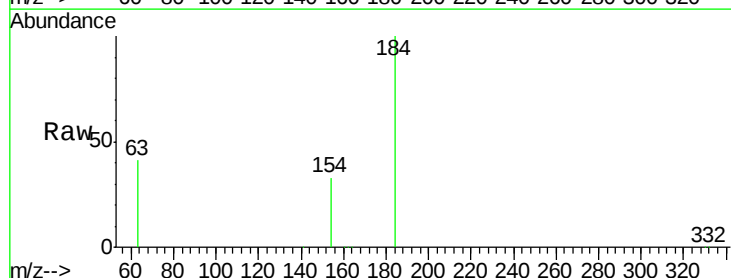
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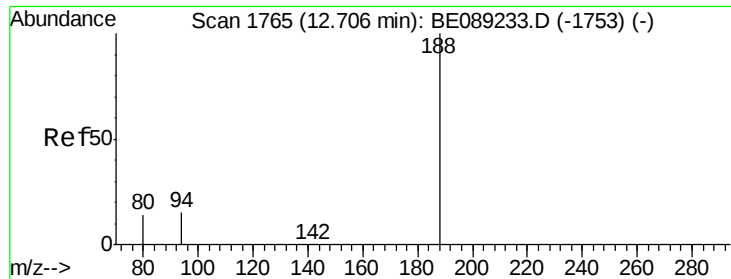
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#16
2,4-Dinitrophenol
Concen: 37.67 ng
RT: 10.77 min Scan# 1482
Delta R.T. -0.02 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion:184 Resp: 21595
Ion Ratio Lower Upper
184 100
63 40.8 69.9 104.9#
154 32.9 59.1 88.7#





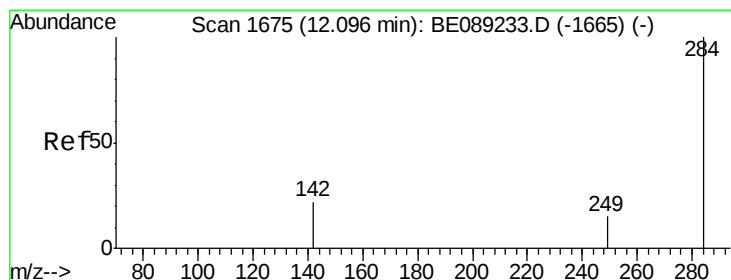
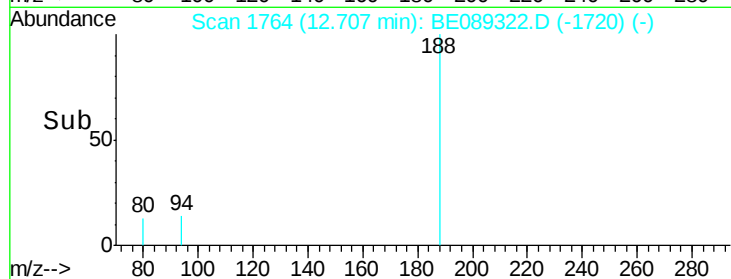
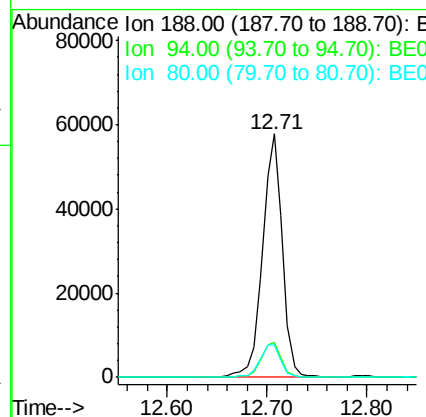
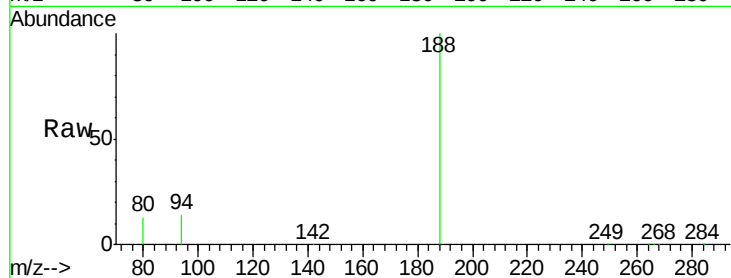
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.71 min Scan# 1764
Delta R.T. 0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Instrument :
BNA_E
ClientSampleId :
PB81193BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	14.1	11.8	17.8
80	13.3	11.4	17.0

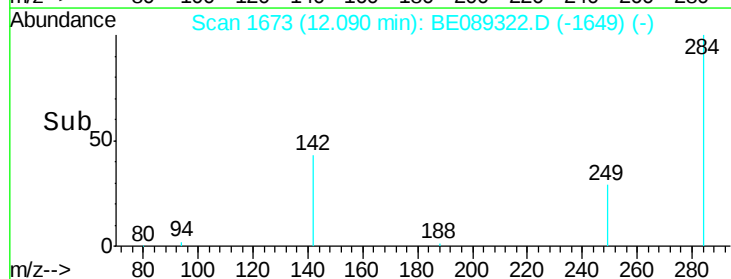
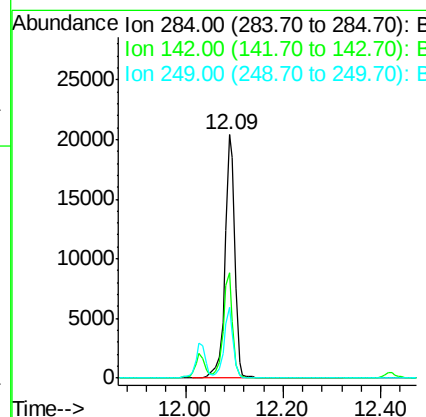
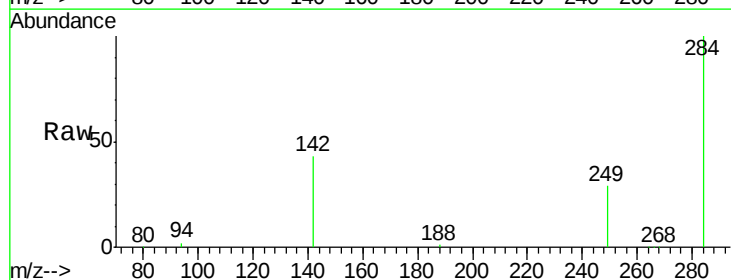
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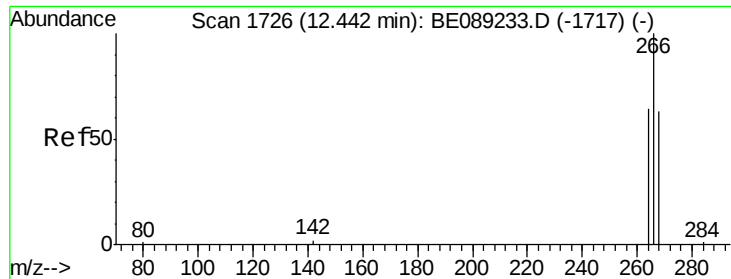
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#18
Hexachlorobenzene
Concen: 7.32 ng
RT: 12.09 min Scan# 1673
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	43.1	23.8	35.8#
249	29.0	19.2	28.8#





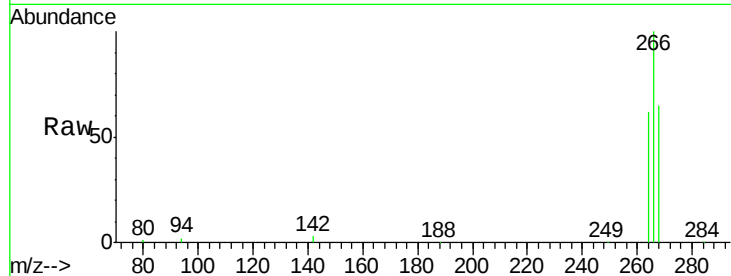
#19
 Pentachlorophenol
 Concen: 27.41 ng
 RT: 12.42 min Scan# 1722
 Delta R.T. -0.02 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Instrument :
 BNA_E
 ClientSampleId :
 PB81193BSD

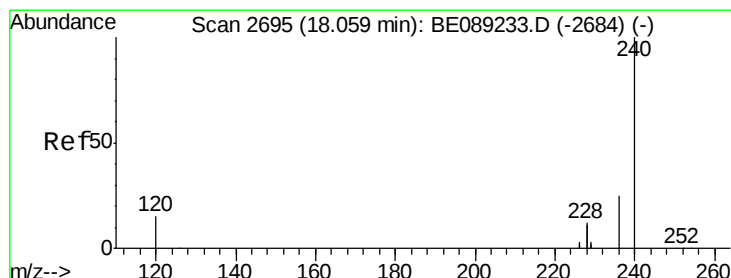
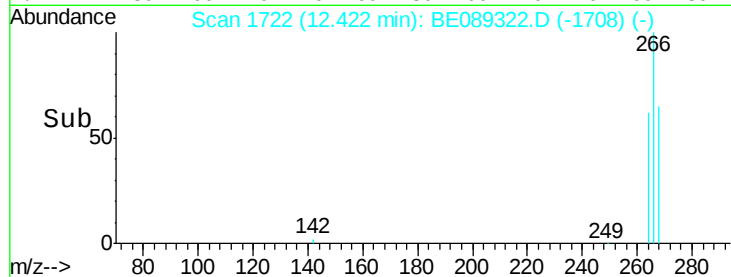
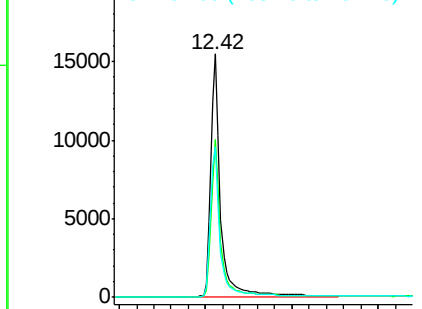
Tgt Ion:	266	Resp:	24969
Ion Ratio	Lower	Upper	
266	100		
268	64.6	55.8	83.6
264	61.7	56.5	84.7

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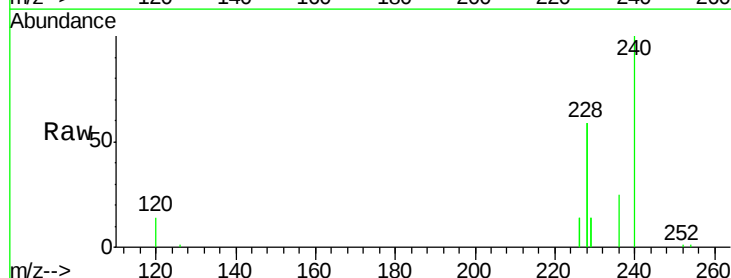


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

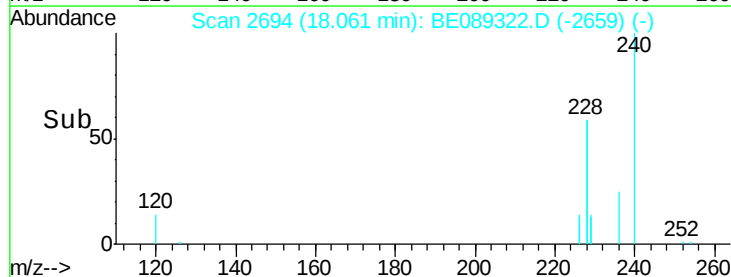
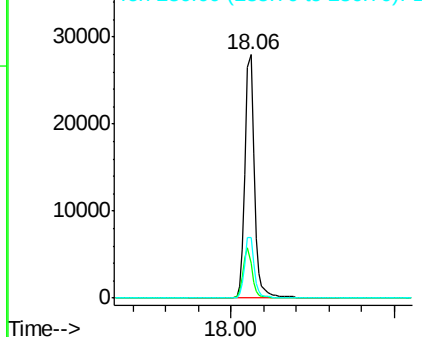


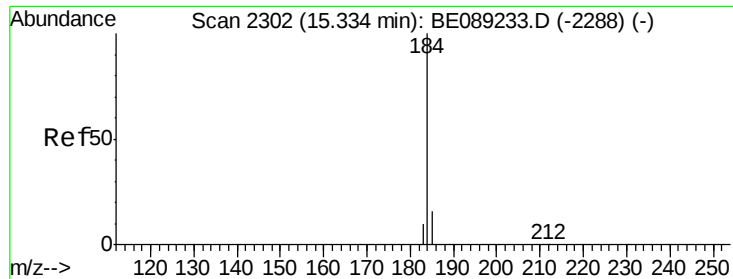
#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.06 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Tgt Ion:	240	Resp:	55402
Ion Ratio	Lower	Upper	
240	100		
120	14.4	12.5	18.7
236	25.1	20.2	30.2



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#21

Benzidine

Concen: 22.01 ng

RT: 15.32 min Scan# 2298

Delta R.T. -0.01 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

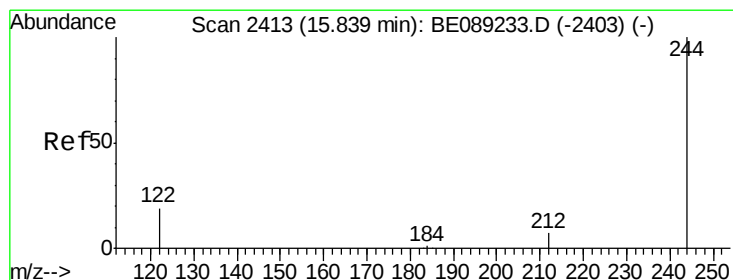
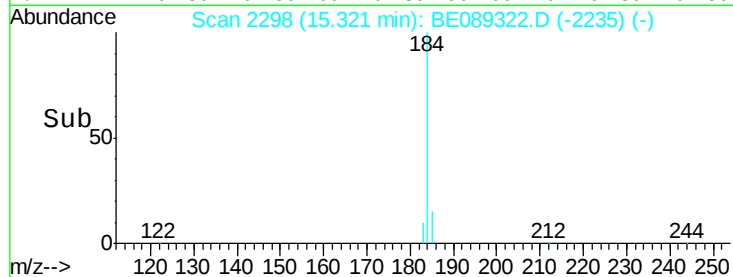
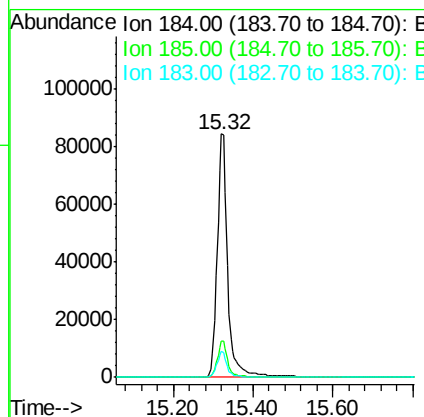
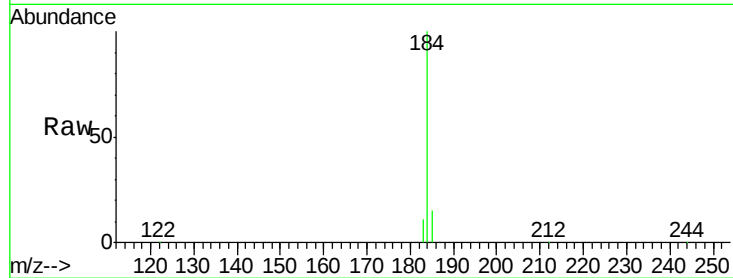
ClientSampleId :

PB81193BSD

Tgt Ion:	184	Resp:	153420
Ion Ratio	Lower	Upper	
184	100		
185	14.8	14.4	21.6
183	10.5	9.6	14.4

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#22

Terphenyl-d14

Concen: 7.17 ng

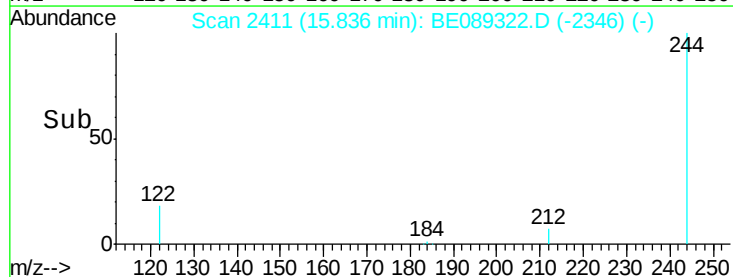
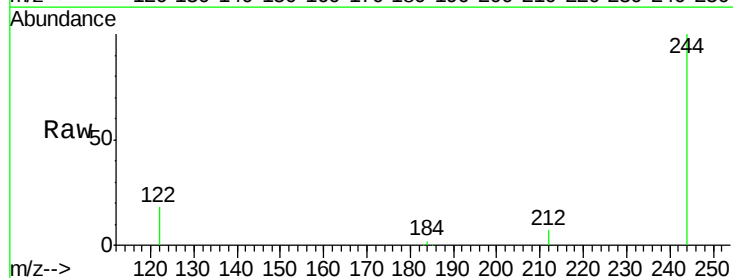
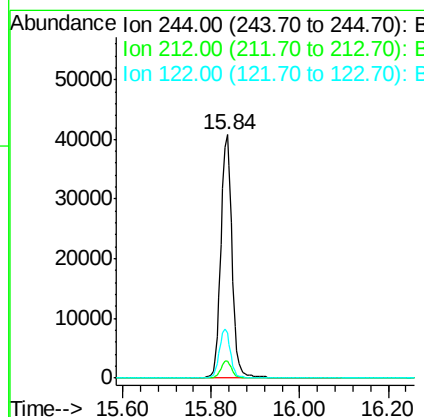
RT: 15.84 min Scan# 2411

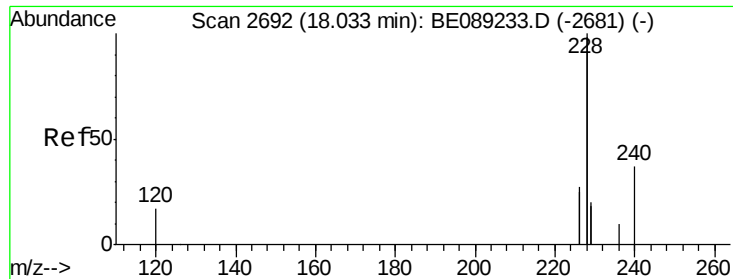
Delta R.T. -0.00 min

Lab File: BE089322.D

Acq: 5 Jan 2015 19:48

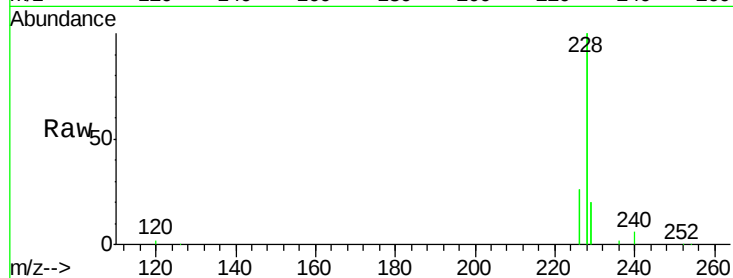
Tgt Ion:	244	Resp:	70931
Ion Ratio	Lower	Upper	
244	100		
212	6.9	6.2	9.4
122	18.3	16.2	24.2





#23
Benzo(a)anthracene
Concen: 8.19 ng
RT: 18.03 min Scan# 2691
Delta R.T. 0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

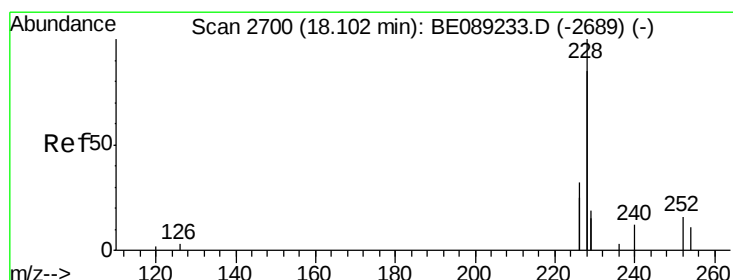
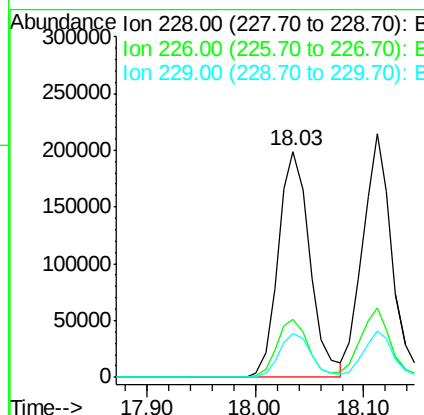
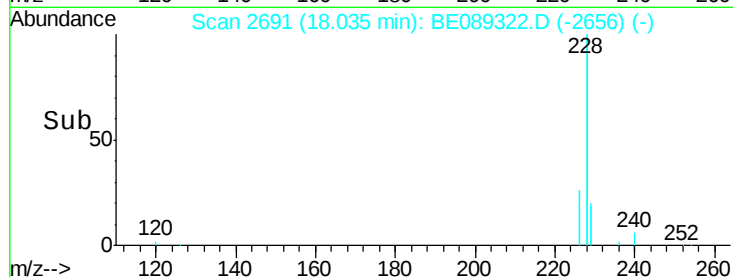
Instrument :
BNA_E
ClientSampleId :
PB81193BSD



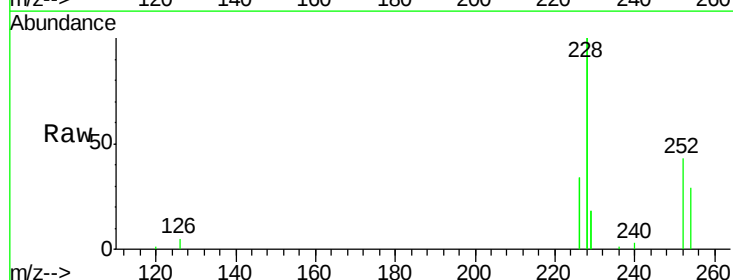
Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.9	21.4	32.0
229	19.7	16.0	24.0

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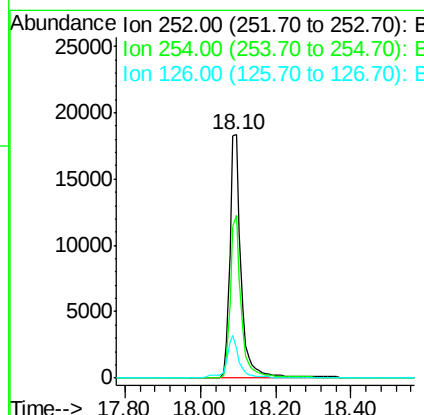
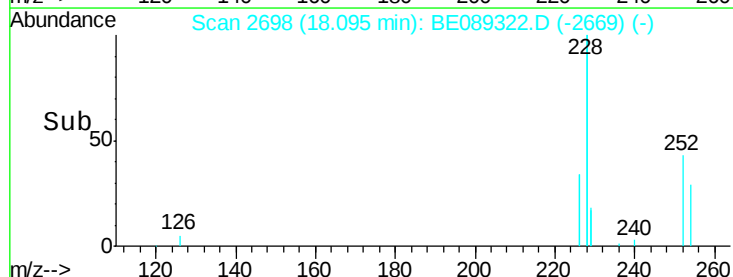
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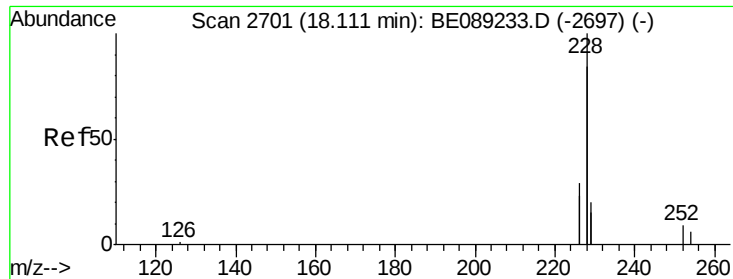


#24
3,3'-Dichlorobenzidine
Concen: 9.61 ng
RT: 18.10 min Scan# 2698
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48



Tgt Ion	Ratio	Lower	Upper
252	100		
254	67.0	53.0	79.6
126	12.2	15.0	22.6#





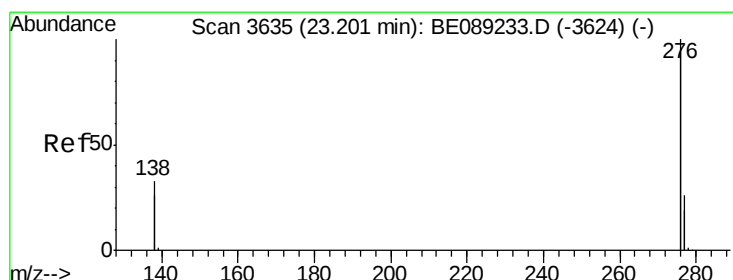
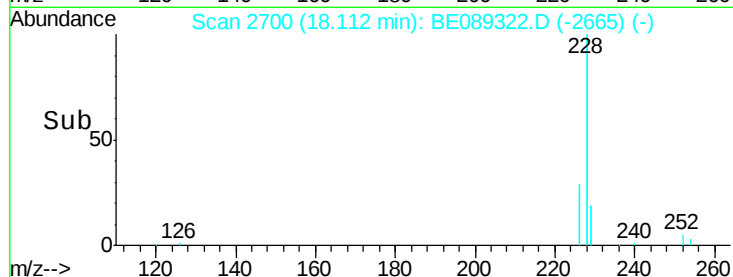
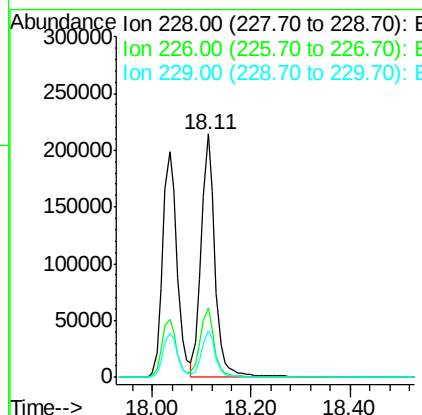
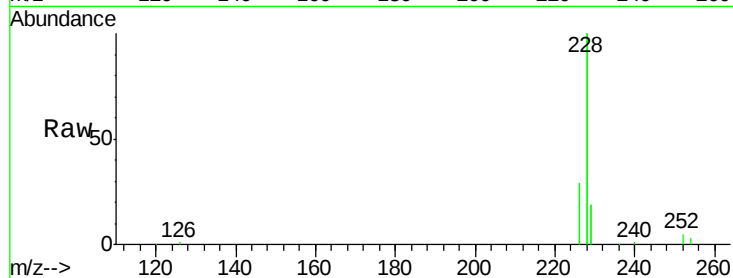
#25
Chrysene
Concen: 7.99 ng
RT: 18.11 min Scan# 2700
Delta R.T. 0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Instrument :
BNA_E
ClientSampleId :
PB81193BSD

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	414466		
226	28.6	23.2	34.8	
229	19.3	16.2	24.2	

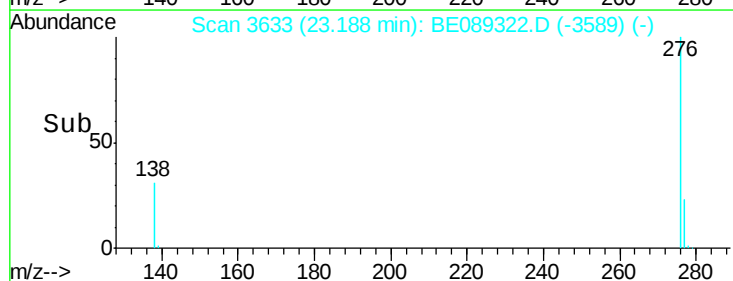
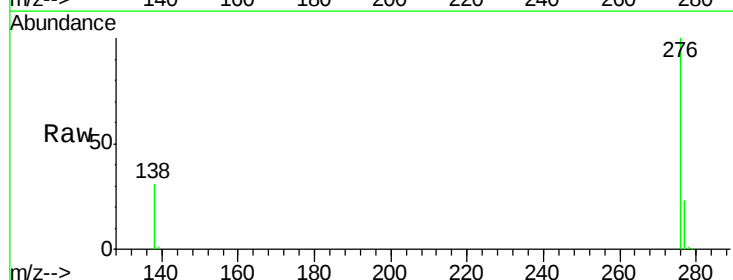
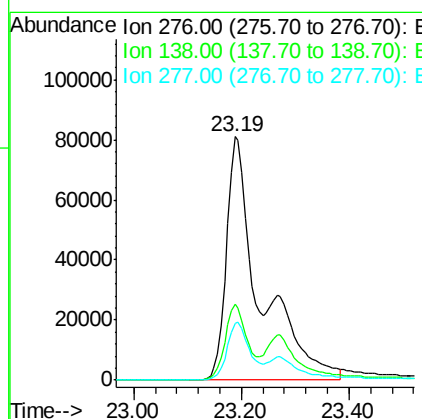
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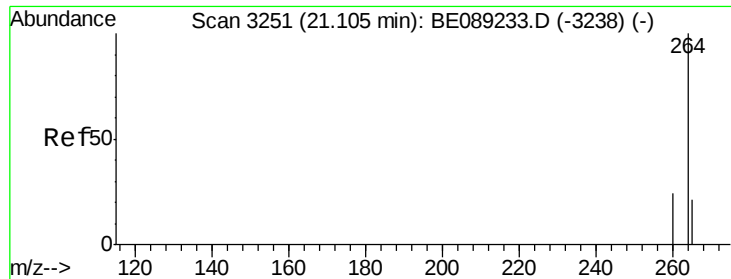
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#26
Indeno(1,2,3-cd)pyrene
Concen: 8.76 ng m
RT: 23.19 min Scan# 3633
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	354515		
138	20.5	23.4	35.2#	
277	15.9	19.0	28.4#	





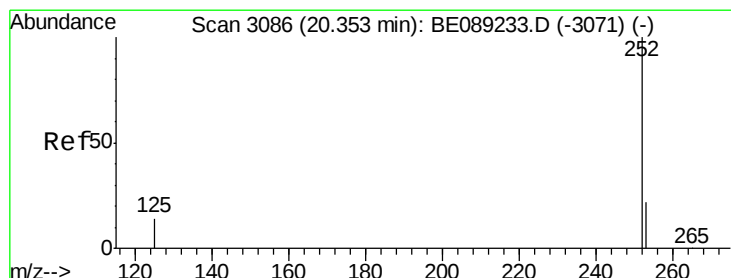
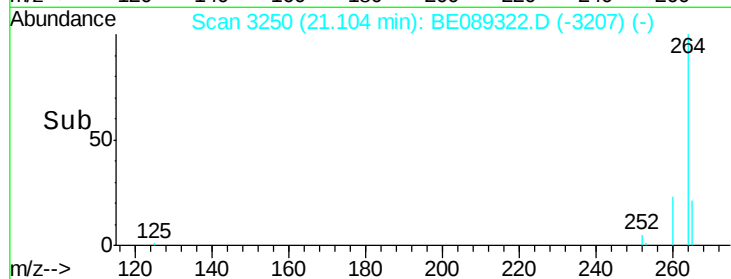
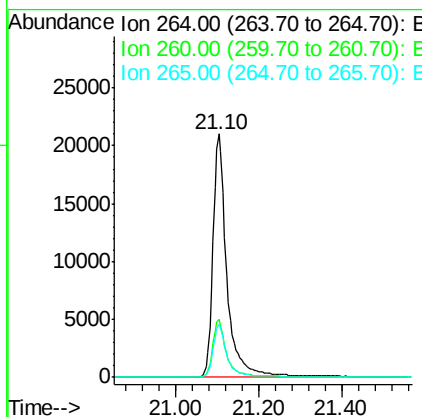
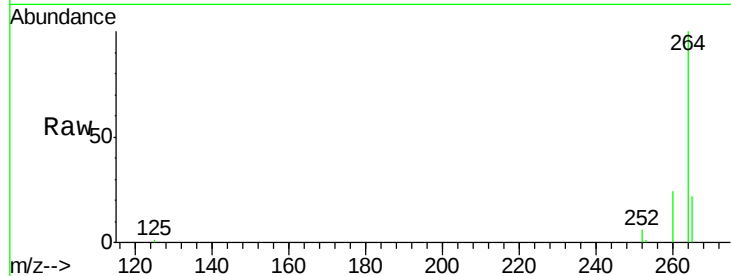
#27
Perylene-d12
 Concen: 5.00 ng
 RT: 21.10 min Scan# 3250
 Delta R.T. -0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Instrument :
 BNA_E
 ClientSampleId :
 PB81193BSD

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.4	29.0
265	21.6	17.1	25.7

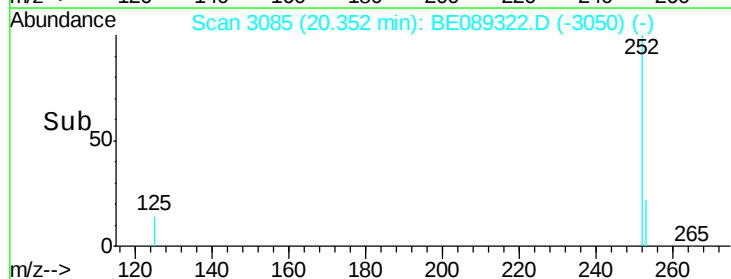
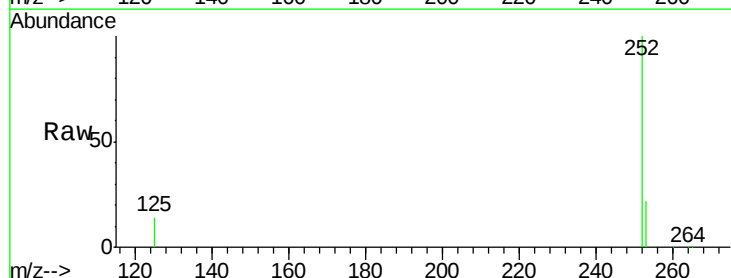
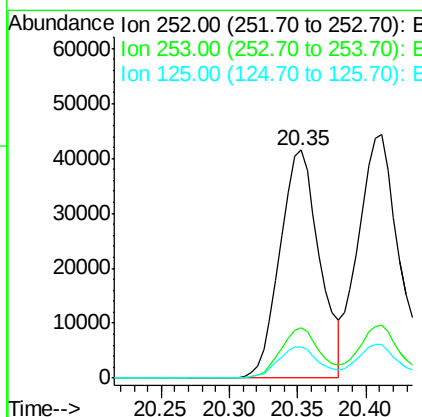
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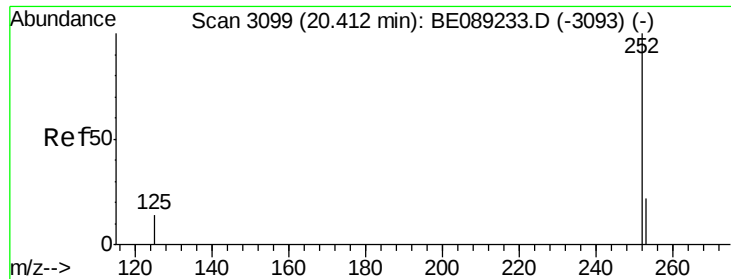
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#28
Benzo(b)fluoranthene
 Concen: 9.24 ng
 RT: 20.35 min Scan# 3085
 Delta R.T. -0.00 min
 Lab File: BE089322.D
 Acq: 5 Jan 2015 19:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	13.8	12.2	18.4





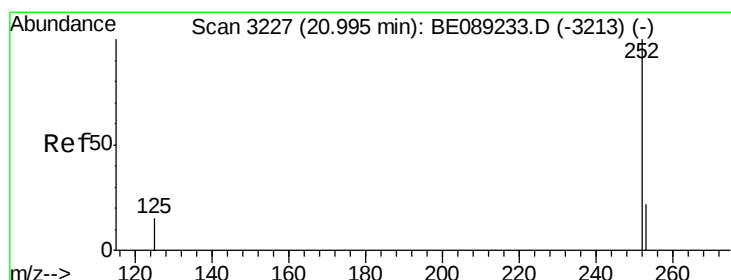
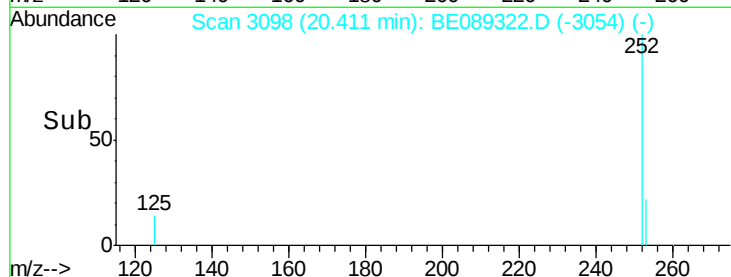
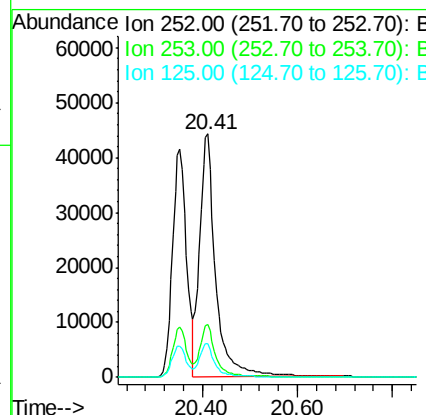
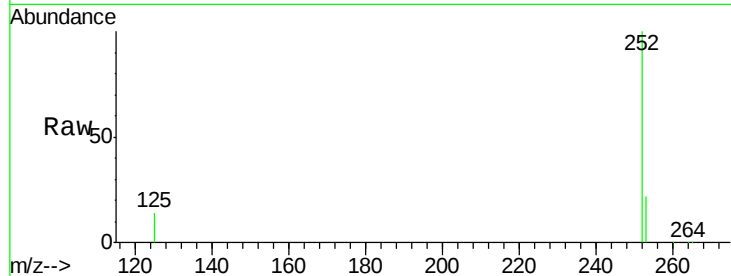
#29
Benzo(k)fluoranthene
Concen: 8.38 ng
RT: 20.41 min Scan# 3098
Delta R.T. -0.00 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Instrument :
BNA_E
ClientSampleId :
PB81193BSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	13.7	12.1	18.1

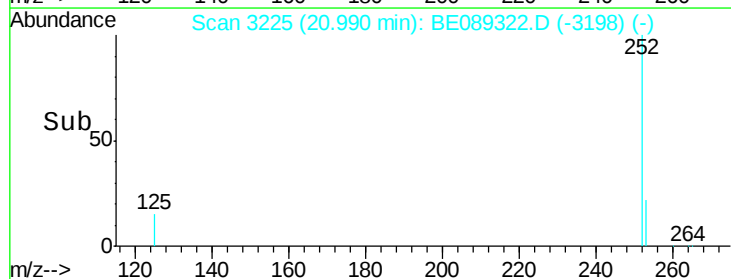
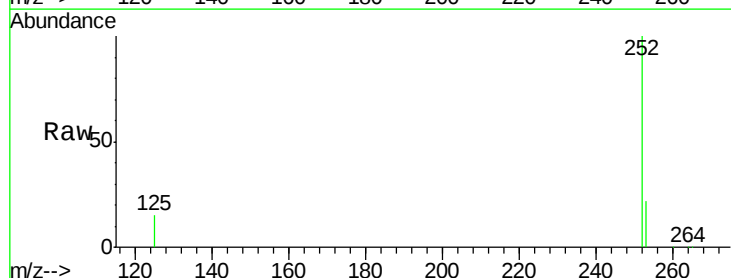
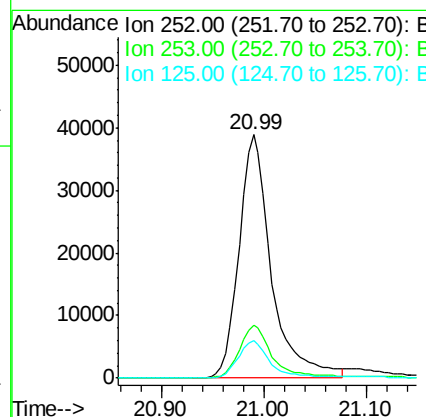
Manual Integrations
APPROVED

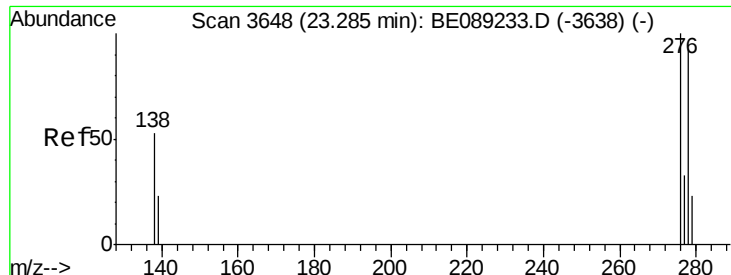
TEJASKUMAR
1/7/2015 9:24:52 AM



#30
Benzo(a)pyrene
Concen: 9.47 ng
RT: 20.99 min Scan# 3225
Delta R.T. -0.01 min
Lab File: BE089322.D
Acq: 5 Jan 2015 19:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.3	27.5
125	15.4	13.5	20.3





#31

Dibenzo(a,h)anthracene

Concen: 8.89 ng

RT: 23.27 min Scan# 3646

Delta R.T. -0.01 min

Lab File: BE089322.D

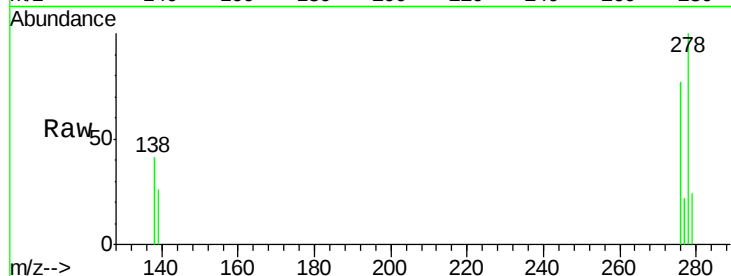
Acq: 5 Jan 2015 19:48

Instrument :

BNA_E

ClientSampleId :

PB81193BSD



Tgt Ion: 278 Resp: 67898

Ion Ratio Lower Upper

278 100

139 26.1 23.2 34.8

279 24.0 21.7 32.5

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