

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE097490.D
 Acq On : 18 Mar 2016 19:42
 Operator : UM/SJ
 Sample : PB88982BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Manual Integrations
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Quant Time: Mar 19 00:16:15 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:14:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	101646	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	475580	5.00	ng	0.00
10) Acenaphthene-d10	14.45	164	277499	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	651859	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	834747	5.00	ng	0.00
28) Perylene-d12	23.80	264	752322	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	78271	3.35	ng	0.00
5) Phenol-d6	6.99	99	108568	3.56	ng	0.00
7) Nitrobenzene-d5	8.98	82	42151	1.77	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	27774m	2.88	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	148746	2.13	ng	0.00
24) Terphenyl-d14	19.78	244	207457	2.07	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	22202	1.75	ng	97
3) n-Nitrosodimethylamine	3.66	42	28624	1.59	ng	85
8) Naphthalene	10.65	128	179260	1.54	ng	96
9) 2-Methylnaphthalene	12.26	142	122836	1.64	ng	94
13) Acenaphthylene	14.15	152	197540	1.50	ng	97
14) Acenaphthene	14.50	154	134913	1.58	ng	98
15) Fluorene	15.48	166	164147	1.52	ng	99
17) Hexachlorobenzene	16.48	284	45949	1.62	ng	97
18) Pentachlorophenol	16.81	266	39208	2.74	ng	90
19) Phenanthrene	17.22	178	288885	1.55	ng	99
20) Anthracene	17.30	178	260483	1.60	ng	99
21) Fluoranthene	19.22	202	304294	1.43	ng	98
23) Pyrene	19.57	202	331423	1.60	ng	98
25) Benzo(a)anthracene	21.31	228	385330m	1.68	ng	
26) Chrysene	21.36	228	365848m	1.72	ng	
27) Indeno(1,2,3-cd)pyrene	26.37	276	370876	1.55	ng	99
29) Benzo(b)fluoranthene	23.03	252	346613	1.46	ng	95
30) Benzo(k)fluoranthene	23.08	252	359728	1.48	ng	93
31) Benzo(a)pyrene	23.68	252	312326	1.49	ng	# 95
32) Dibenzo(a,h)anthracene	26.40	278	312324	1.51	ng	98
33) Benzo(g,h,i)perylene	27.16	276	318891	1.49	ng	99

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

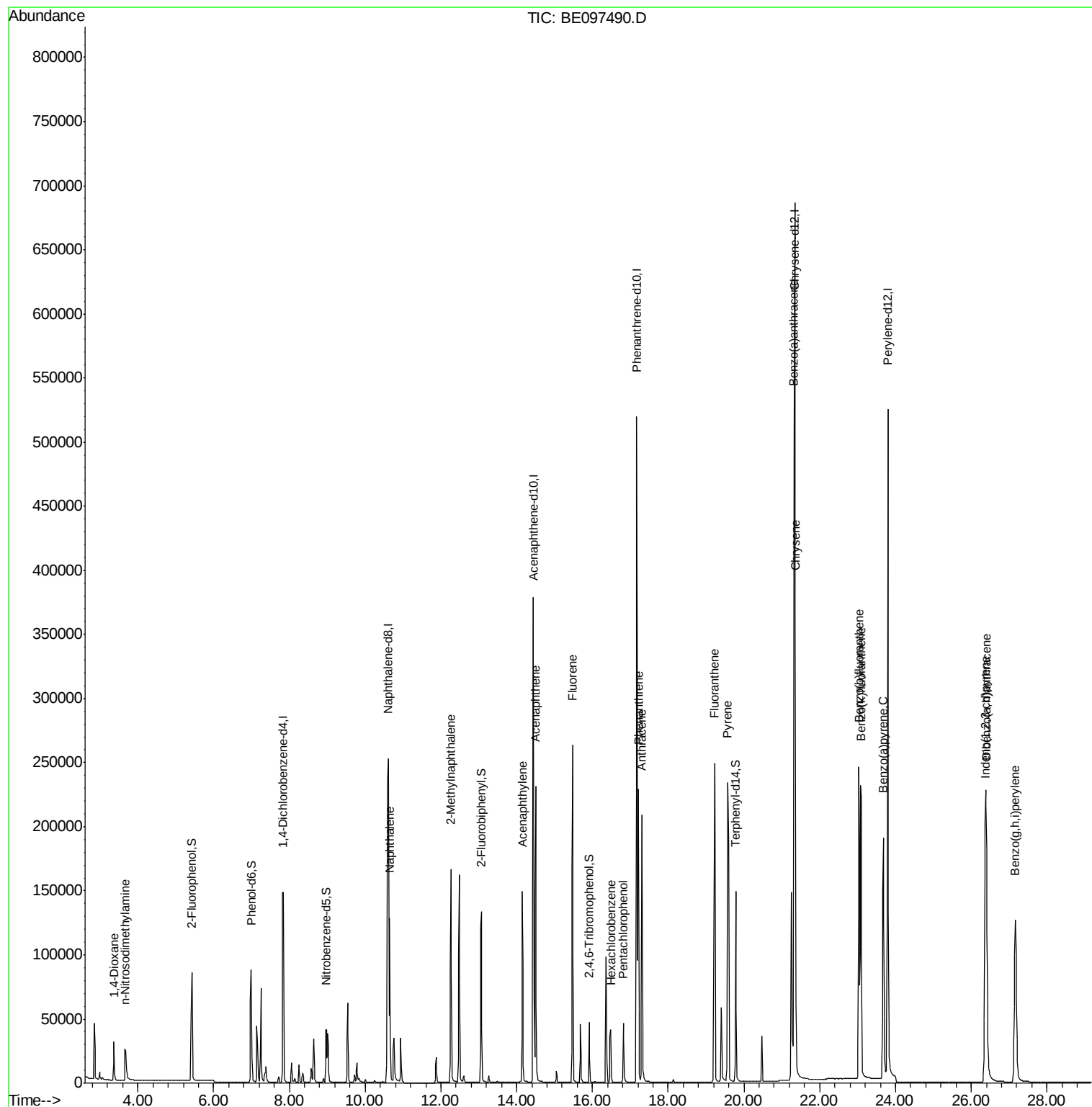
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
Data File : BE097490.D
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Sample : PB88982BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

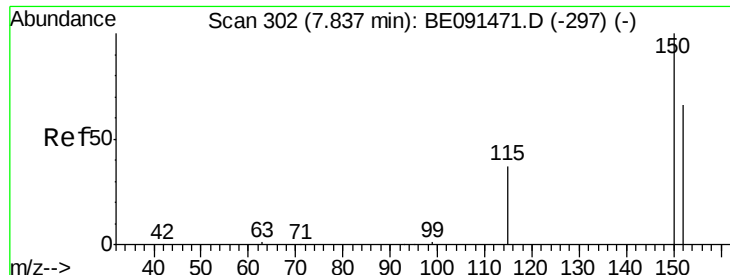
Instrument :
BNA_E
ClientSampleId :

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Quant Time: Mar 19 00:16:15 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 14:14:30 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. -0.00 min

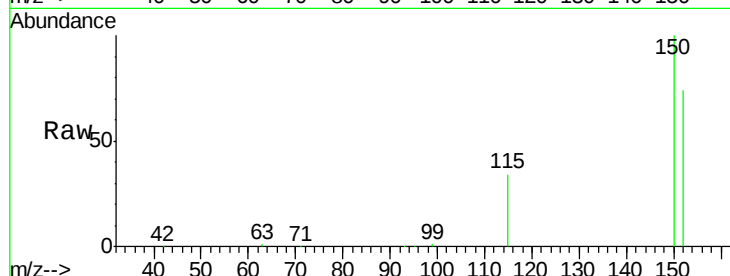
Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Instrument :

BNA_E

ClientSampled :



Tgt Ion: 152 Resp: 101646

Ion Ratio Lower Upper

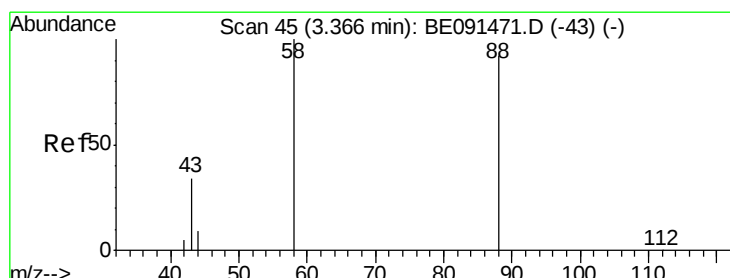
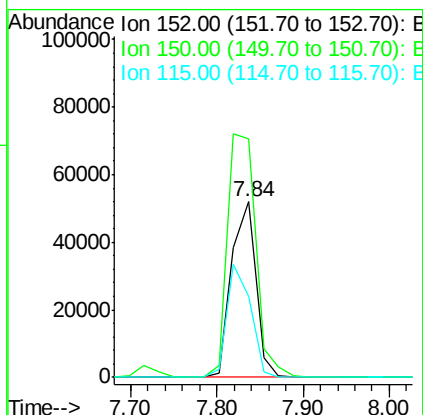
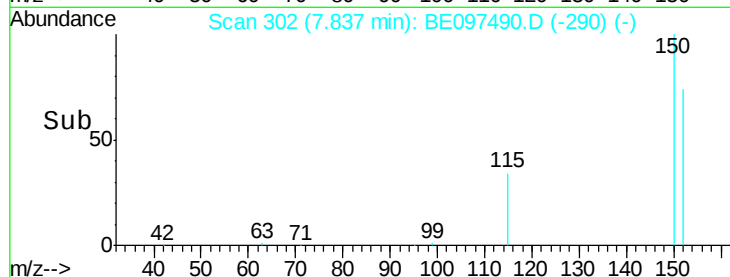
152 100

150 135.8 122.2 183.2

115 46.4 45.9 68.9

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#2

1,4-Dioxane

Concen: 1.75 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

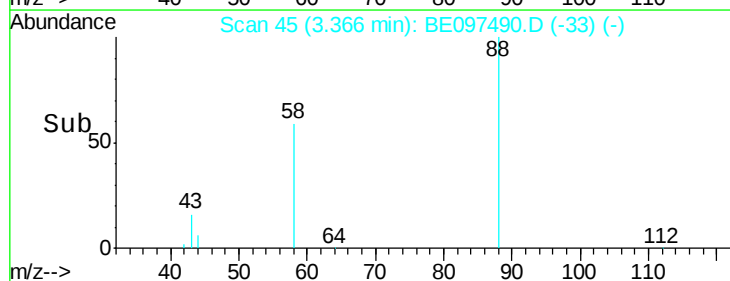
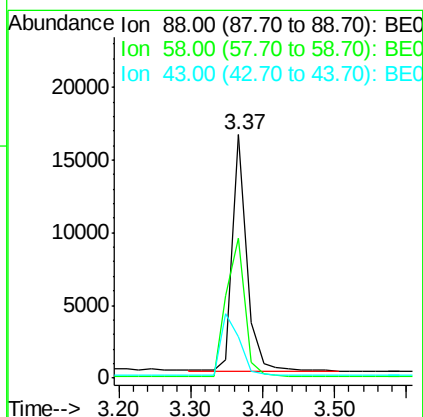
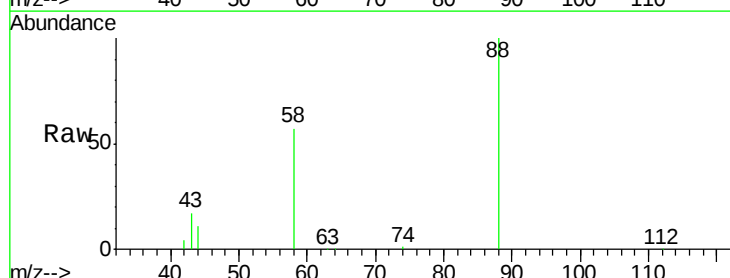
Tgt Ion: 88 Resp: 22202

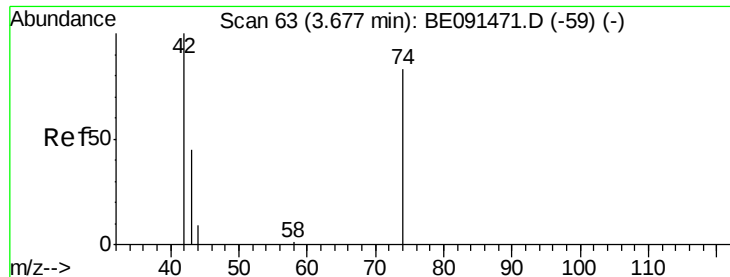
Ion Ratio Lower Upper

88 100

58 78.0 61.0 91.6

43 34.2 25.4 38.2





#3

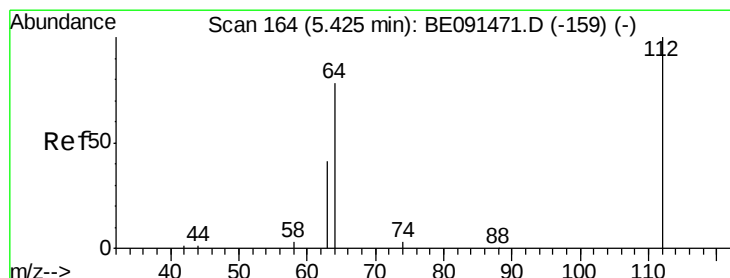
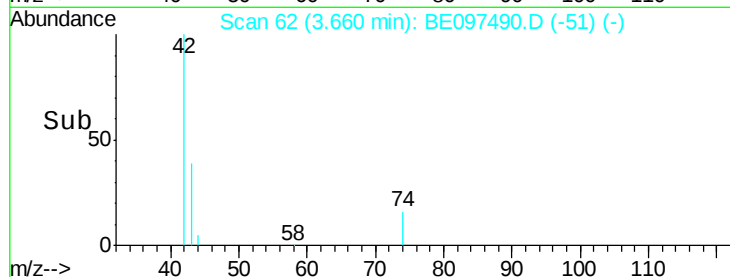
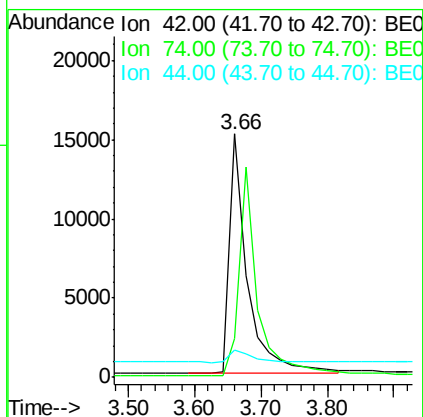
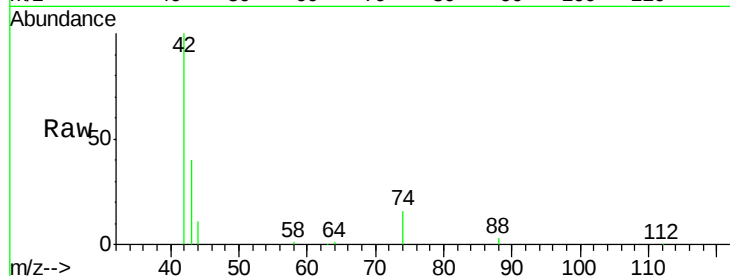
n-Nitrosodimethylamine
Concen: 1.59 ng
RT: 3.66 min Scan# 62
Delta R.T. -0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
42	100		
74	89.6	84.3	126.5
44	6.8	6.7	10.1

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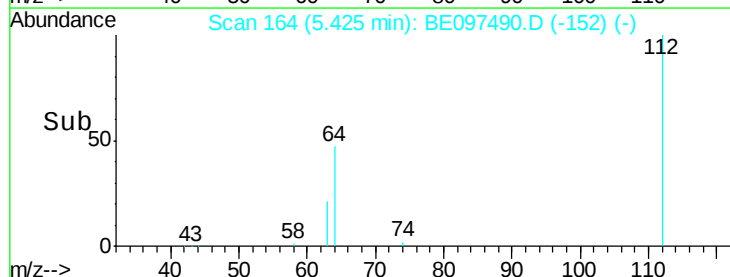
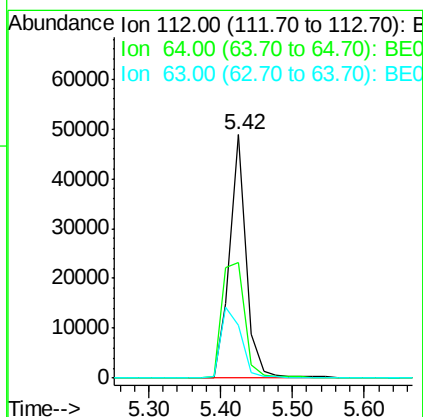
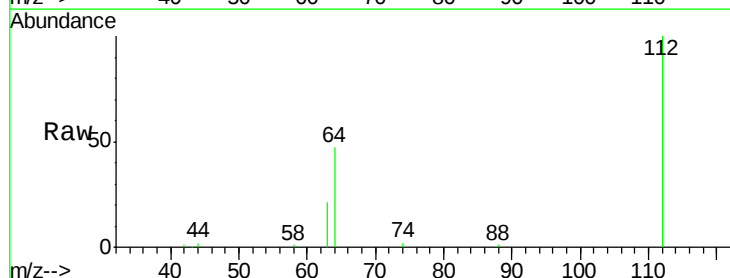
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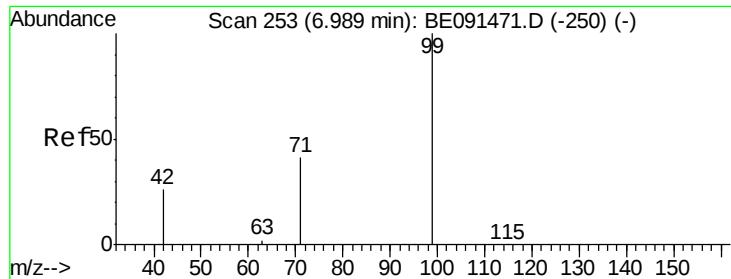


#4

2-Fluorophenol
Concen: 3.35 ng
RT: 5.42 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.1	53.3	79.9
63	35.8	29.8	44.8





#5

Phenol-d6

Concen: 3.56 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

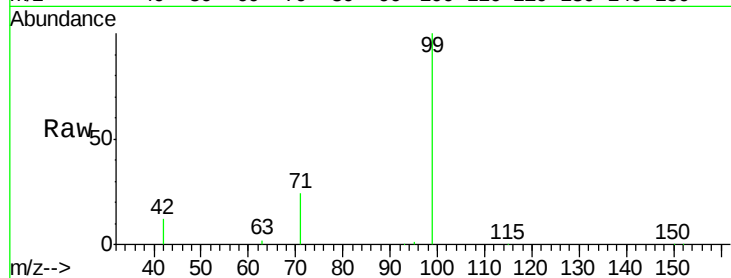
Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Instrument :

BNA_E

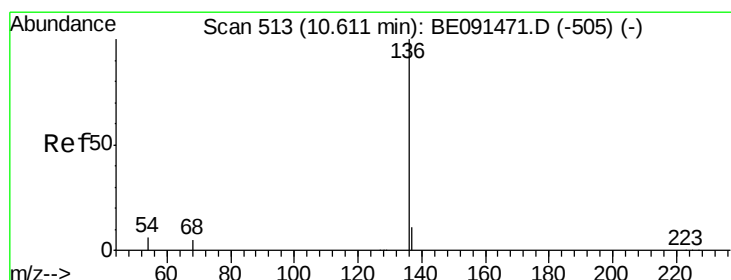
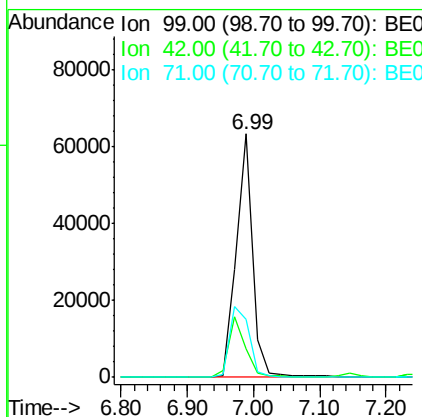
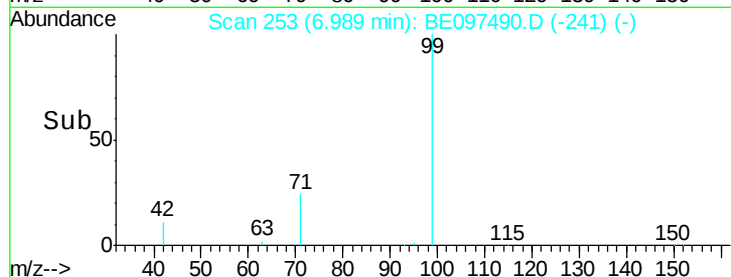
ClientSampleId :



Tgt Ion	Ratio	Resp	Lower	Upper
99	100	108568		
42	25.1	20.6	30.8	
71	35.0	29.0	43.4	

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#6

Naphthalene-d8

Concen: 5.00 ng

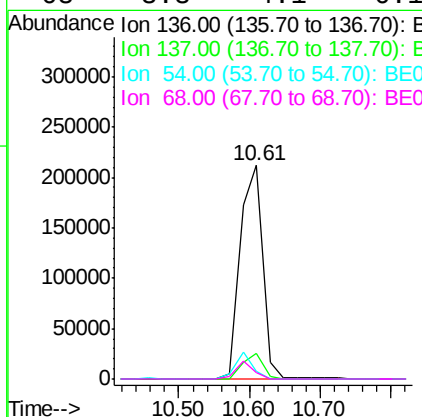
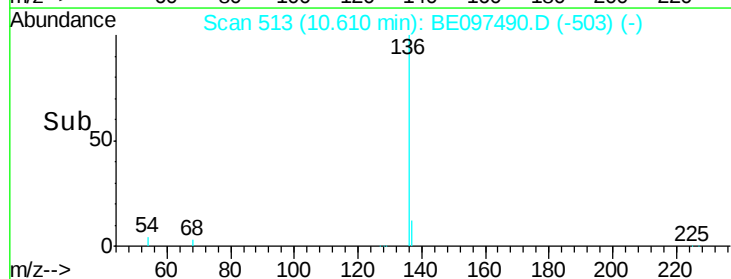
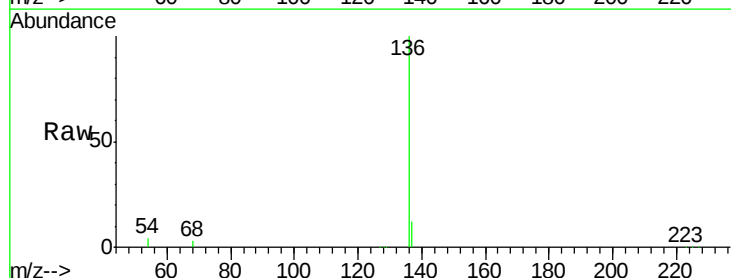
RT: 10.61 min Scan# 513

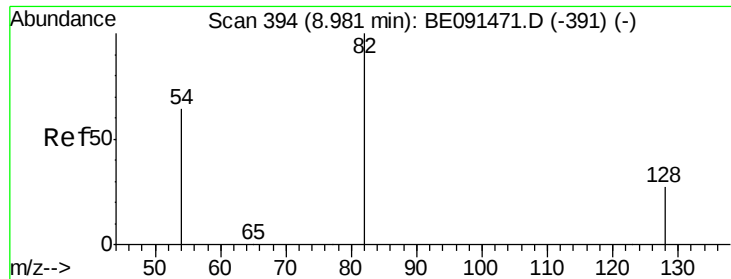
Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	475580		
137	12.1	8.8	13.2	
54	3.8	5.2	7.8#	
68	3.3	4.1	6.1#	





#7

Nitrobenzene-d5

Concen: 1.77 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

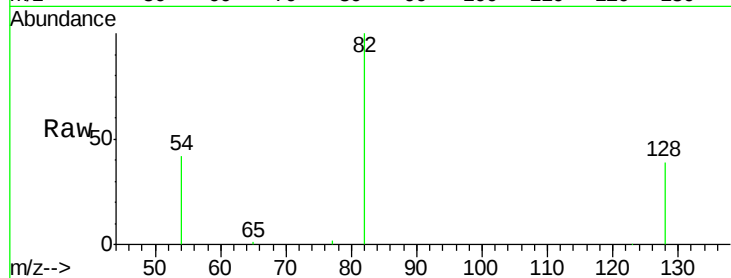
Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 82 Resp: 42151

Ion Ratio Lower Upper

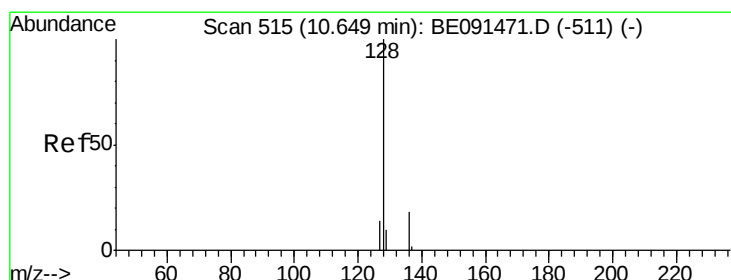
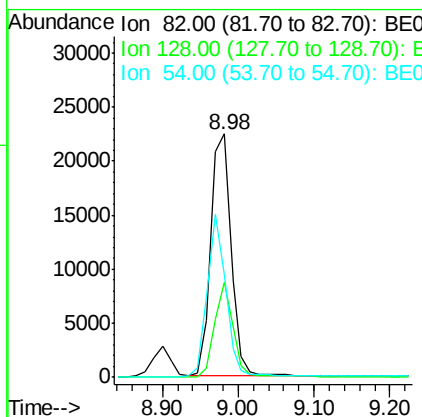
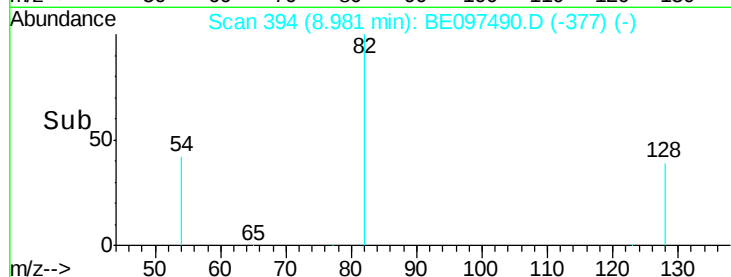
82 100

128 39.0 23.5 35.3#

54 42.3 52.4 78.6#

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#8

Naphthalene

Concen: 1.54 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

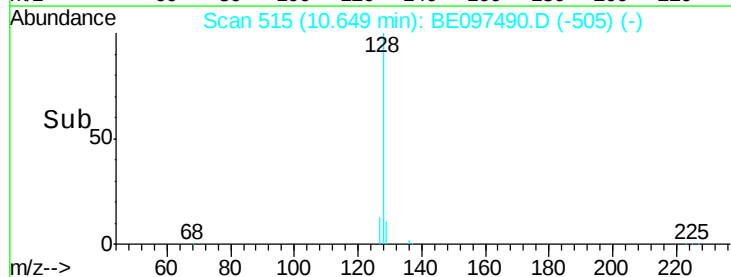
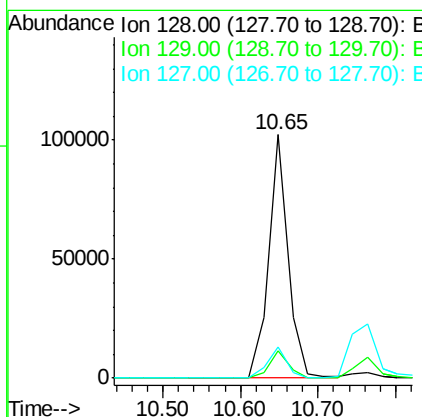
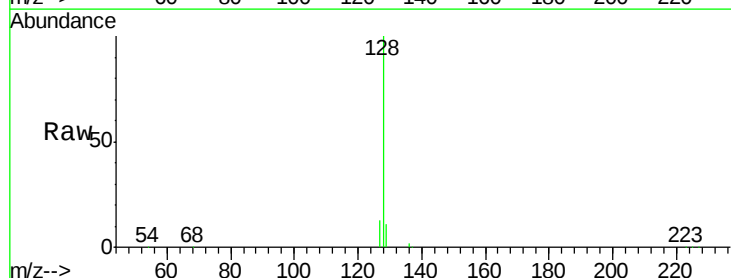
Tgt Ion: 128 Resp: 179260

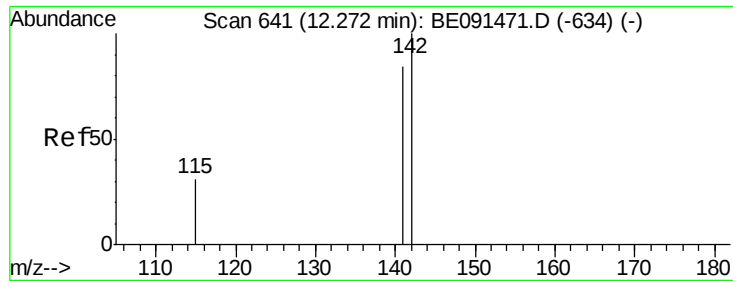
Ion Ratio Lower Upper

128 100

129 11.1 8.2 12.2

127 12.7 11.8 17.8





#9

2-Methylnaphthalene

Concen: 1.64 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.01 min

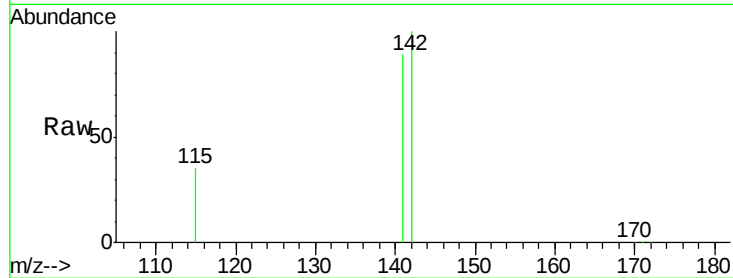
Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Instrument :

BNA_E

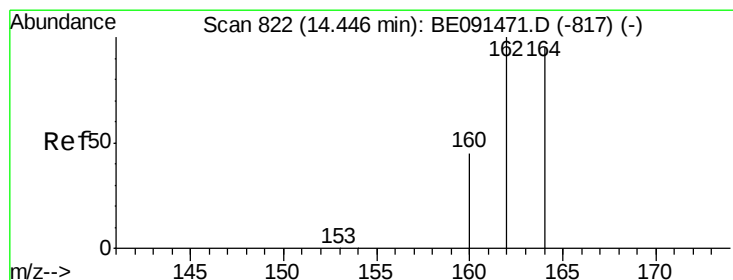
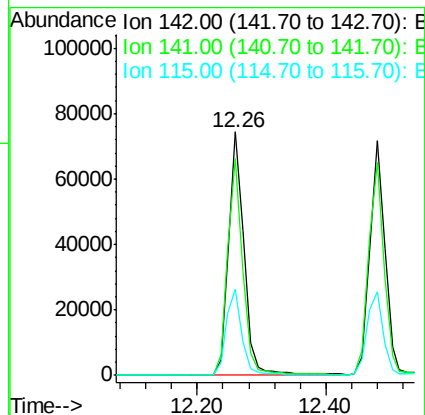
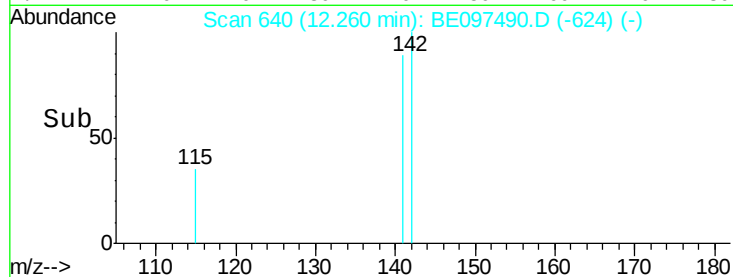
ClientSampleId :



Tgt Ion:	142	Resp:	122836
Ion Ratio	Lower	Upper	
142	100		
141	88.8	66.9	100.3
115	35.2	25.1	37.7

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#10

Acenaphthene-d10

Concen: 5.00 ng

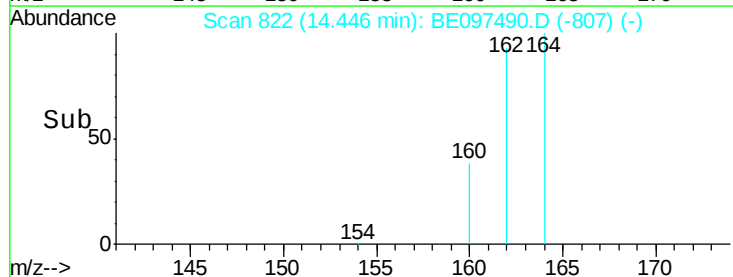
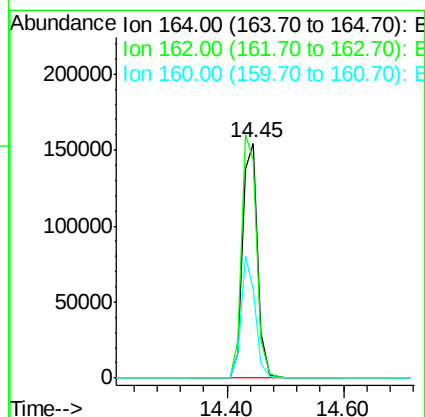
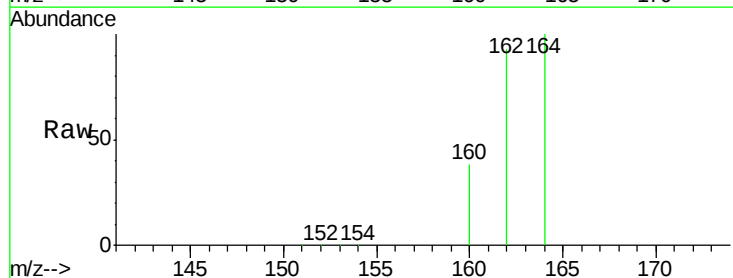
RT: 14.45 min Scan# 822

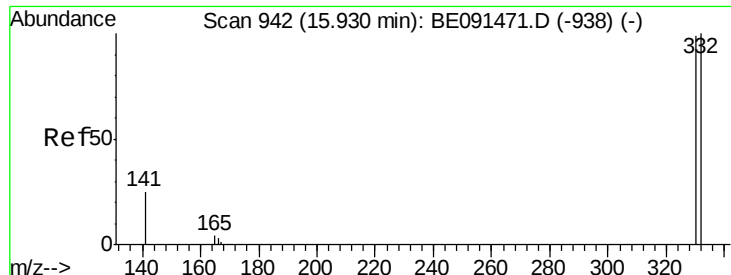
Delta R.T. 0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

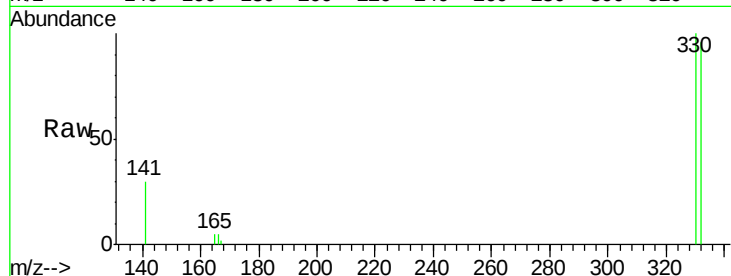
Tgt Ion:	164	Resp:	277499
Ion Ratio	Lower	Upper	
164	100		
162	92.8	84.4	126.6
160	37.7	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 2.88 ng m
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 19:42

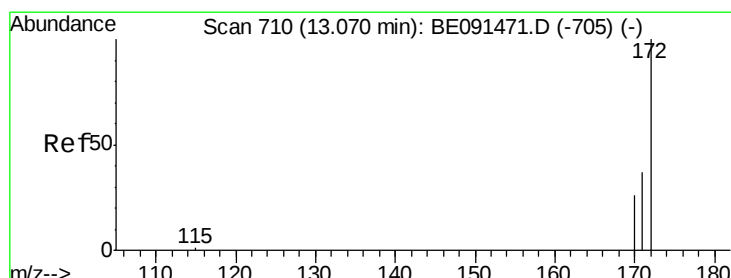
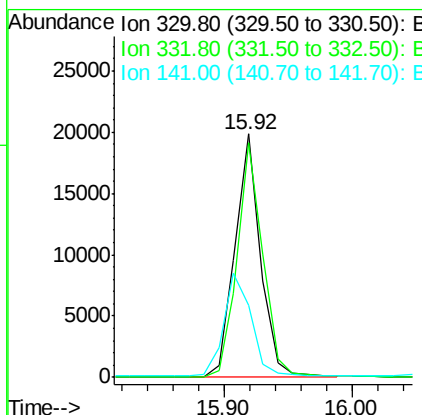
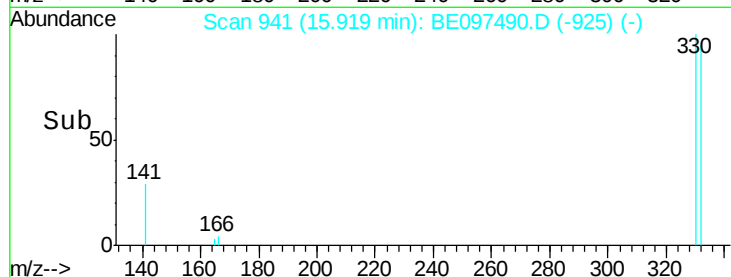
Instrument :
 BNA_E
 ClientSampled :



Tgt Ion:330 Resp: 27774
 Ion Ratio Lower Upper
 330 100
 332 115.2 79.2 118.8
 141 45.3 28.1 42.1#

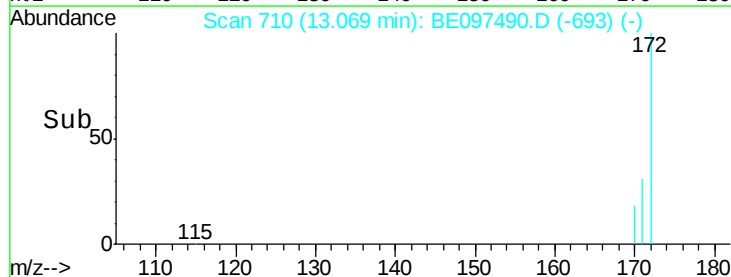
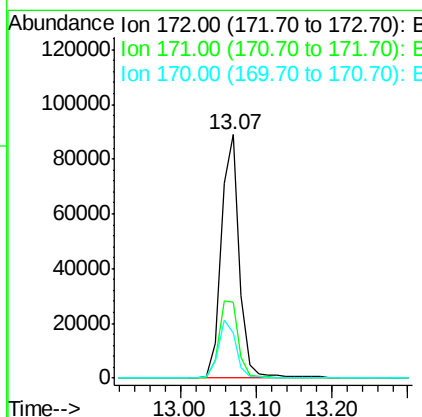
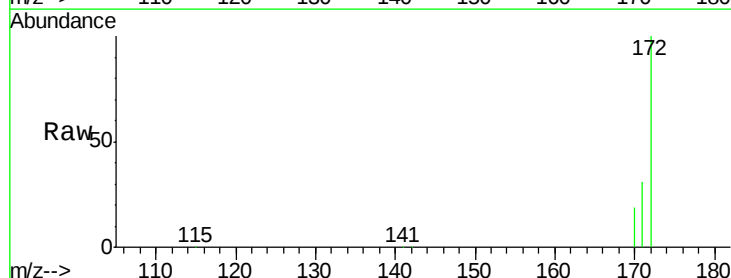
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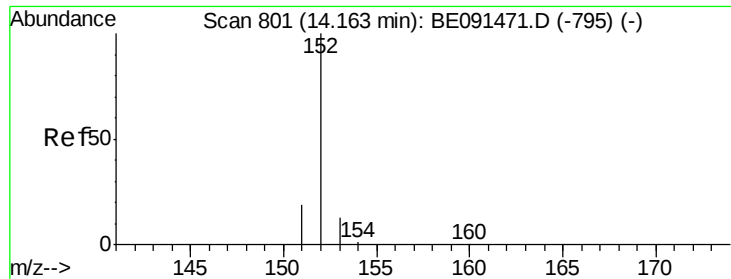
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#12
 2-Fluorobiphenyl
 Concen: 2.13 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 19:42

Tgt Ion:172 Resp: 148746
 Ion Ratio Lower Upper
 172 100
 171 31.0 29.8 44.8
 170 18.6 21.4 32.2#





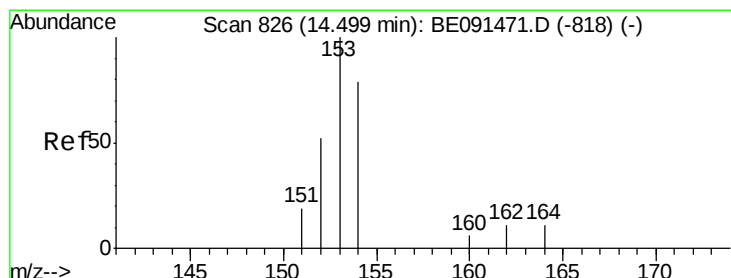
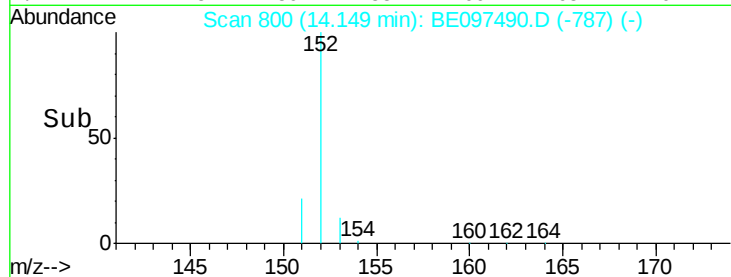
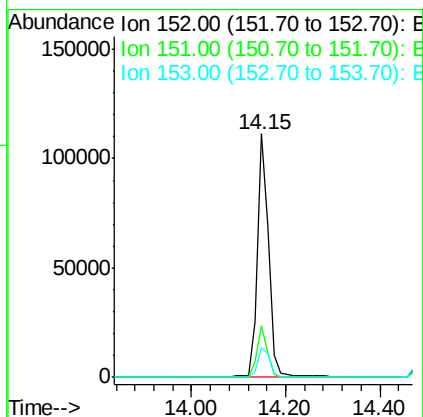
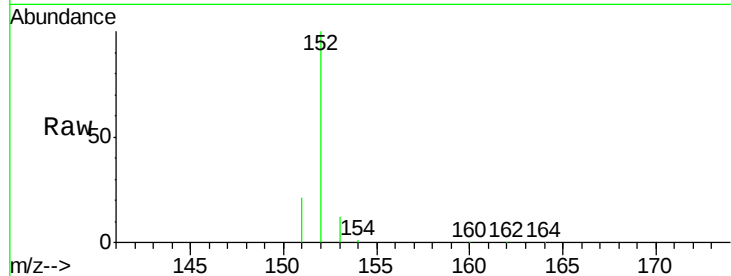
#13
Acenaphthylene
Concen: 1.50 ng
RT: 14.15 min Scan# 800
Delta R.T. -0.01 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	197540		
151	18.4	16.3	24.5	
153	13.7	11.1	16.7	

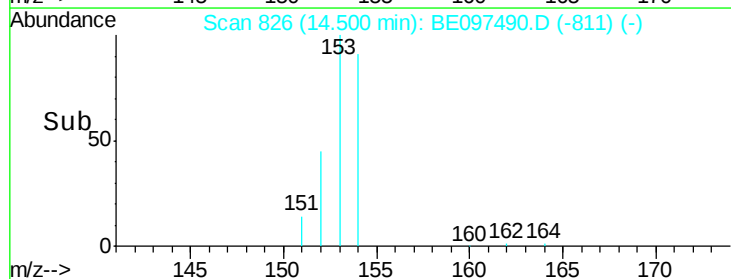
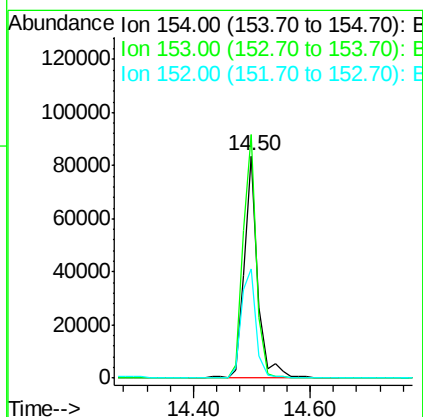
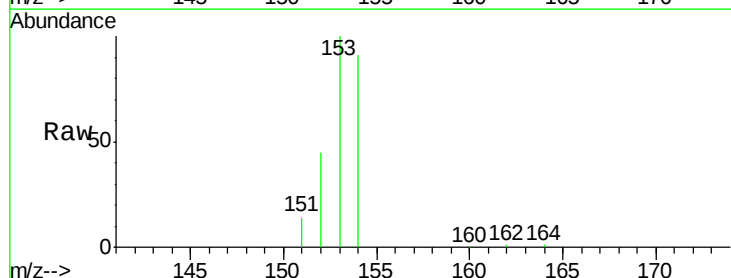
Manual Integrations
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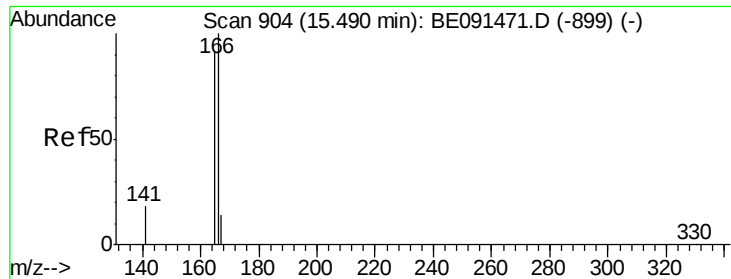
apatel
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#14
Acenaphthene
Concen: 1.58 ng
RT: 14.50 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	134913		
153	106.8	87.3	130.9	
152	52.3	42.9	64.3	





#15

Fluorene

Concen: 1.52 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

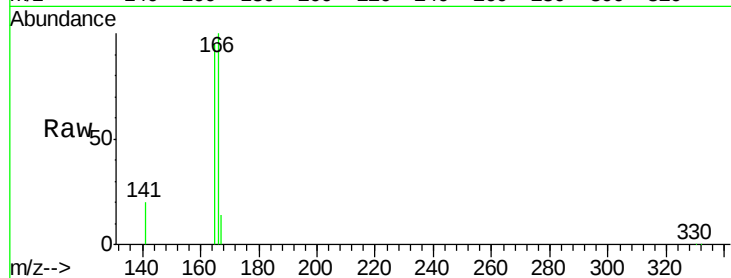
Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Instrument :

BNA_E

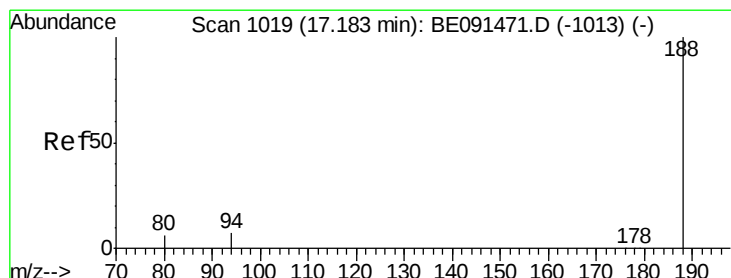
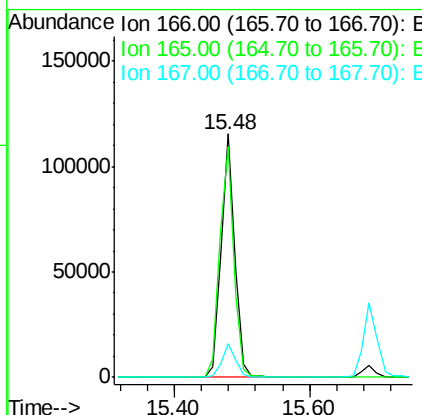
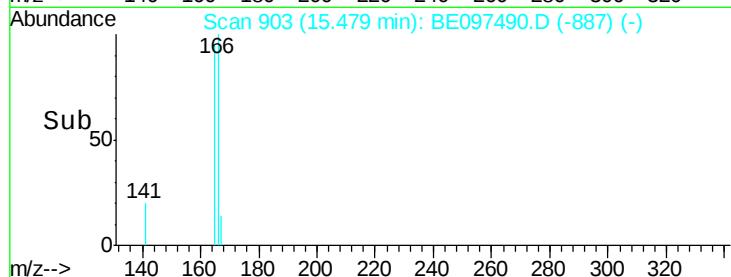
ClientSampleId :



Tgt Ion:	166	Resp:	164147
Ion Ratio	Lower	Upper	
166	100		
165	98.5	79.2	118.8
167	13.6	10.8	16.2

Manual Integrations
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#16

Phenanthrene-d10

Concen: 5.00 ng

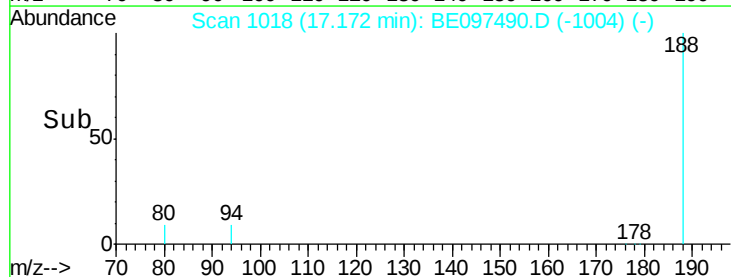
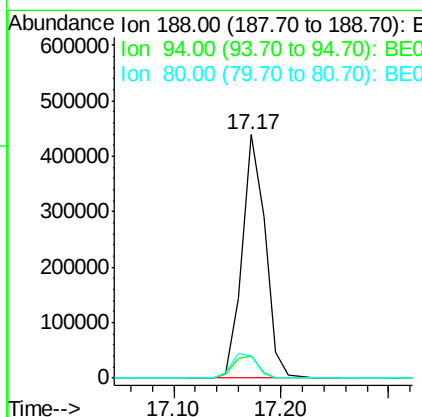
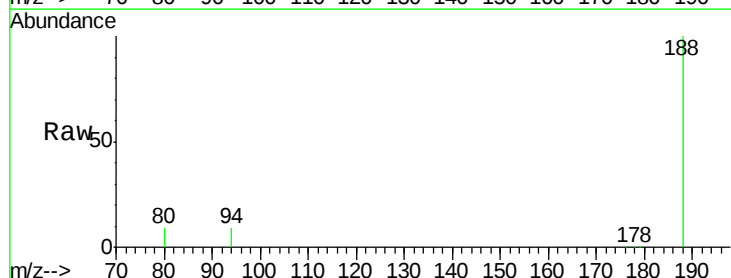
RT: 17.17 min Scan# 1018

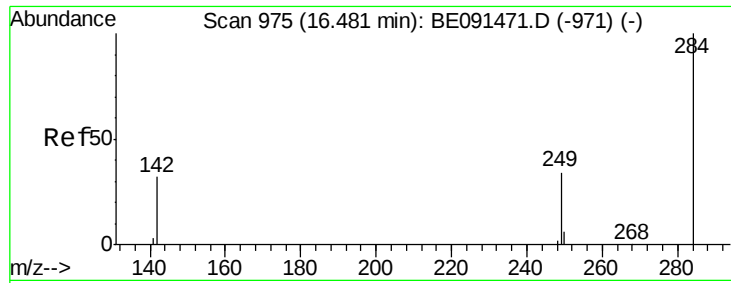
Delta R.T. -0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

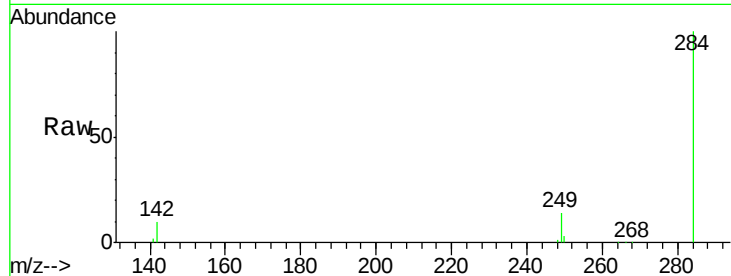
Tgt Ion:	188	Resp:	651859
Ion Ratio	Lower	Upper	
188	100		
94	9.3	5.4	8.2#
80	8.9	5.0	7.4#





#17
Hexachlorobenzene
Concen: 1.62 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

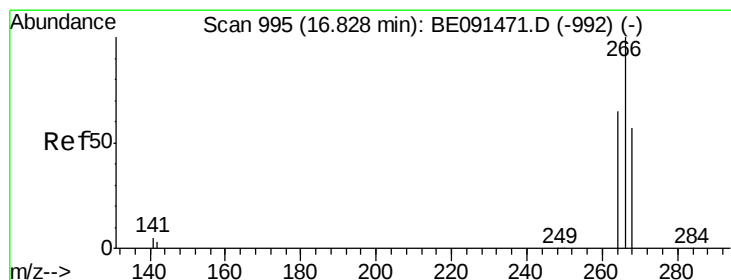
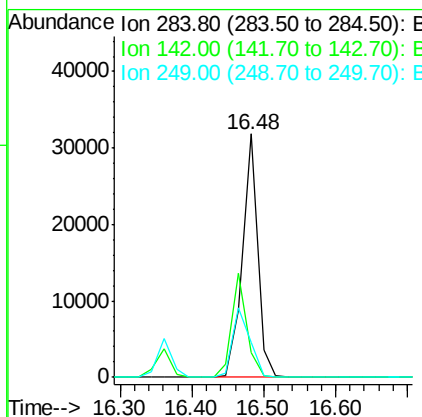
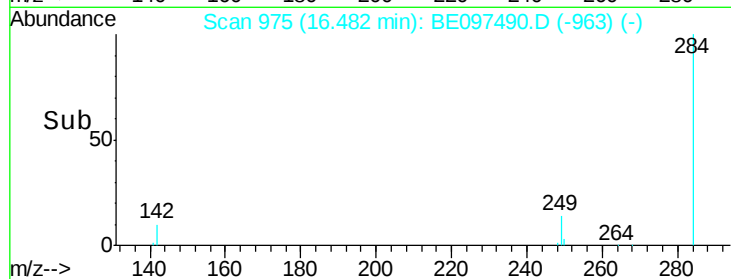
Instrument :
BNA_E
ClientSampleId :



Tgt Ion: 284 Resp: 45949
Ion Ratio Lower Upper
284 100
142 41.6 31.0 46.4
249 31.7 25.8 38.8

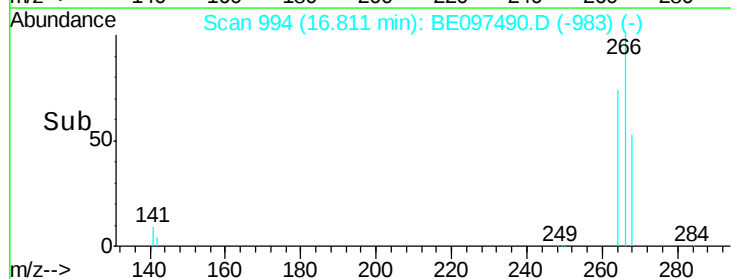
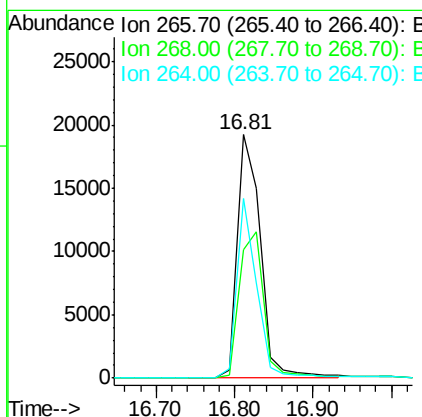
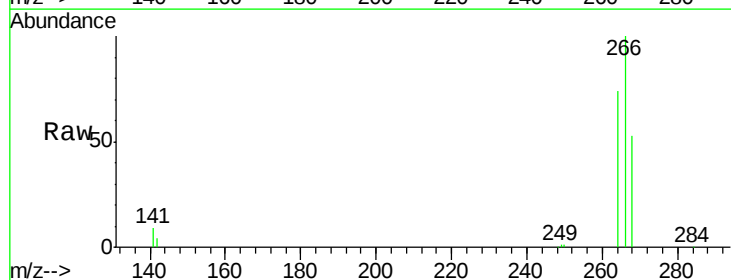
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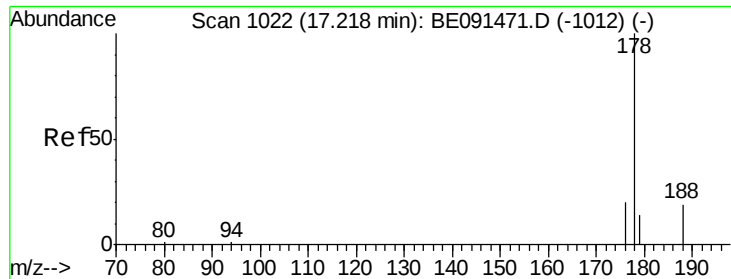
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#18
Pentachlorophenol
Concen: 2.74 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

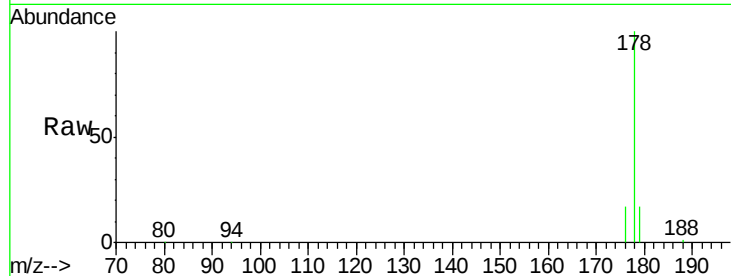
Tgt Ion: 266 Resp: 39208
Ion Ratio Lower Upper
266 100
268 52.9 48.2 72.2
264 73.9 52.1 78.1





#19
Phenanthrene
Concen: 1.55 ng
RT: 17.22 min Scan# 1022
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

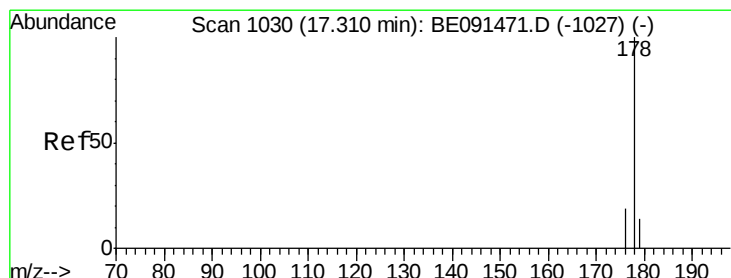
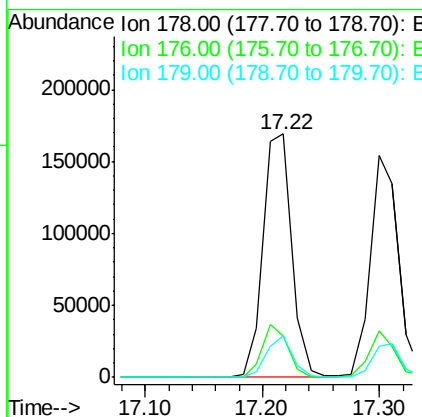
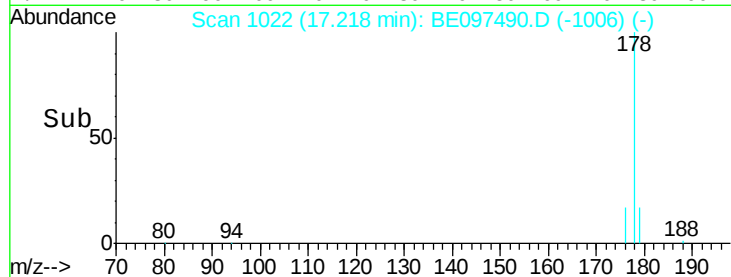
Instrument :
BNA_E
ClientSampleId :



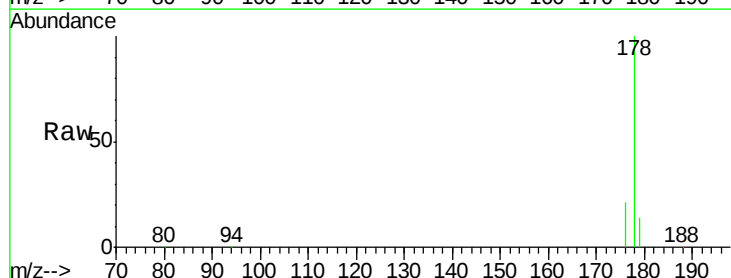
Tgt Ion:178 Resp: 288885
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 15.5 13.1 19.7

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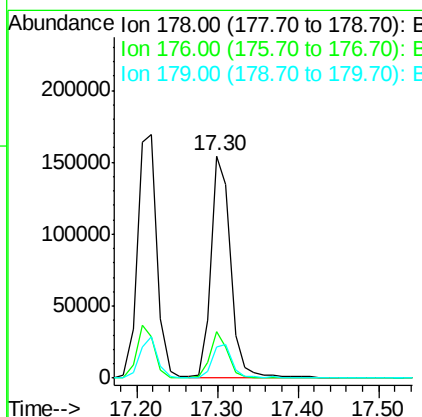
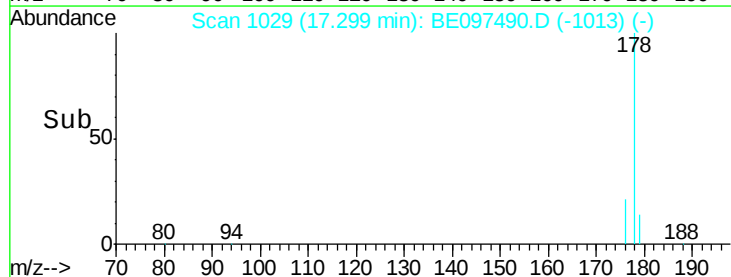
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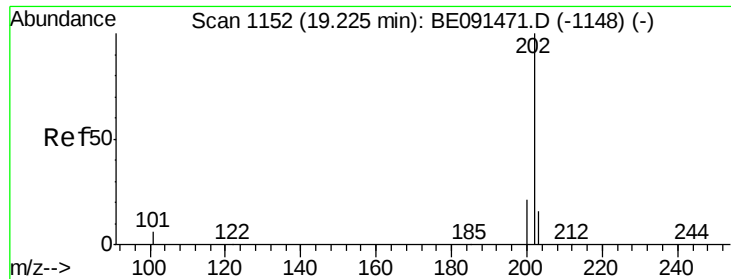


#20
Anthracene
Concen: 1.60 ng
RT: 17.30 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42



Tgt Ion:178 Resp: 260483
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.7 12.2 18.4





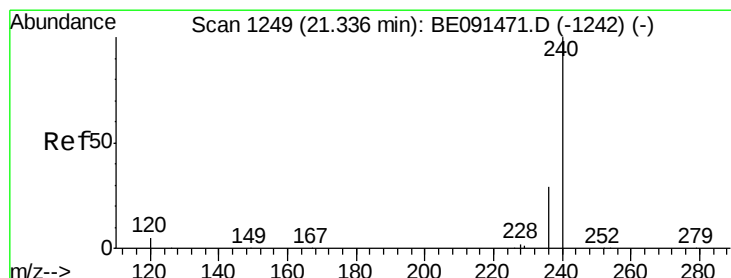
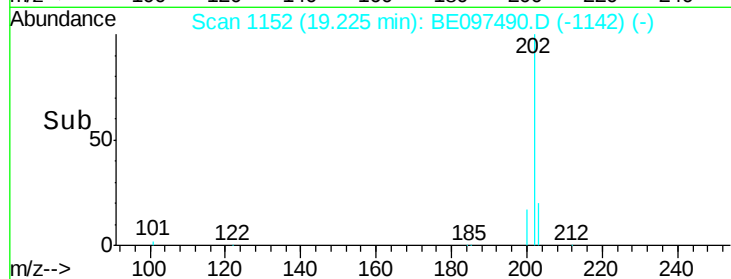
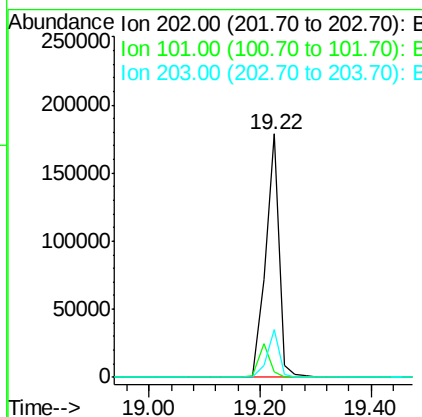
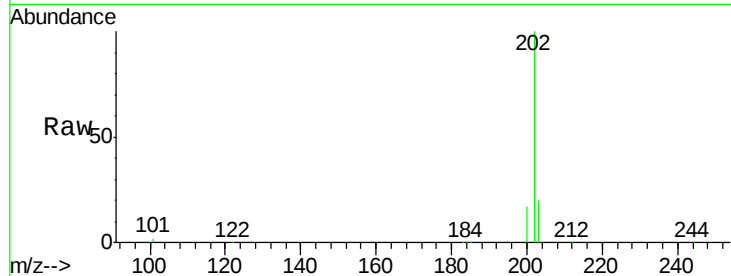
#21
Fluoranthene
Concen: 1.43 ng
RT: 19.22 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	11.8	8.3	12.5
203	18.1	13.9	20.9

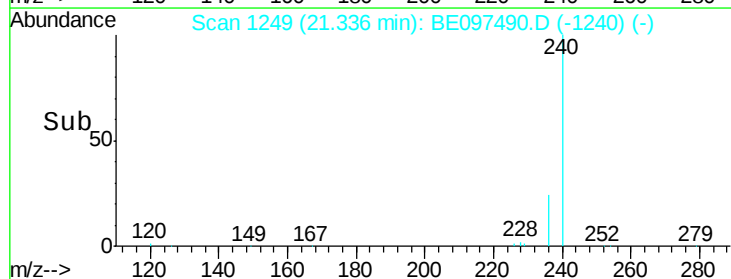
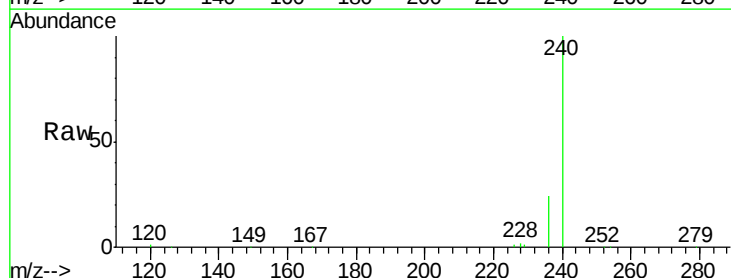
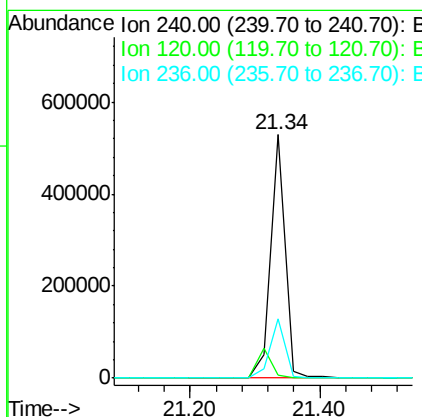
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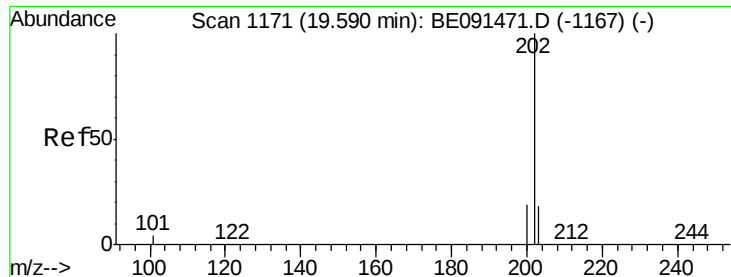
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#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	1.4	4.0	6.0#
236	24.2	23.0	34.4





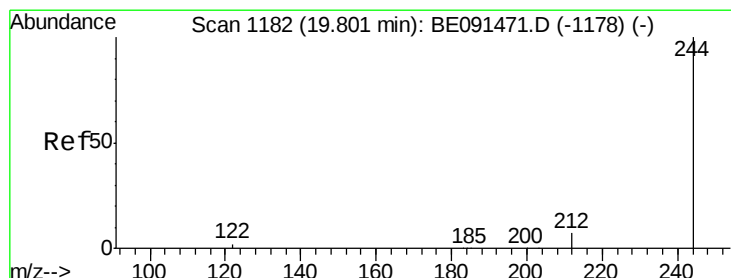
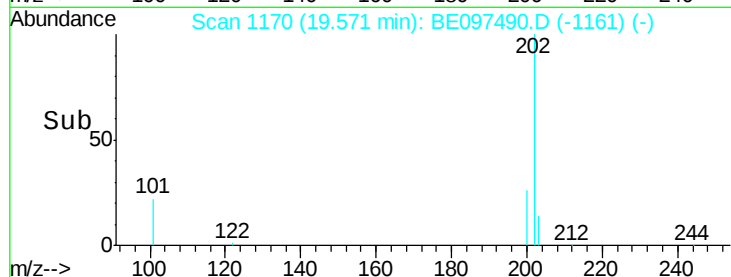
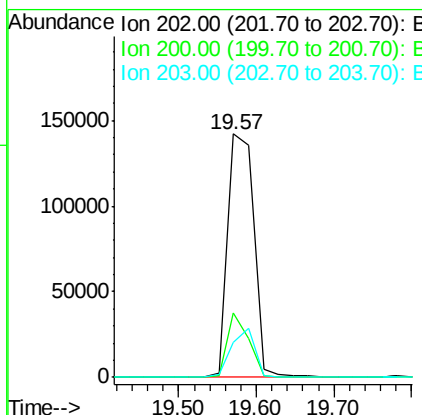
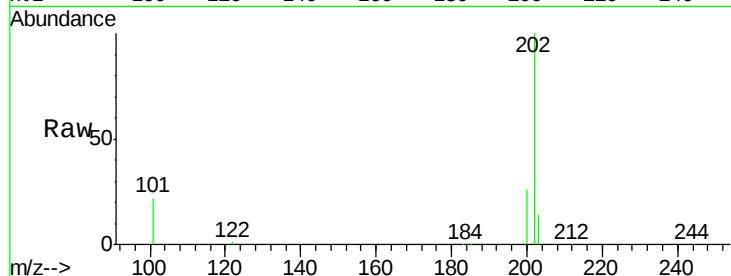
#23
 Pyrene
 Concen: 1.60 ng
 RT: 19.57 min Scan# 1170
 Delta R.T. -0.02 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 19:42

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.5	16.4	24.6
203	17.8	14.6	21.8

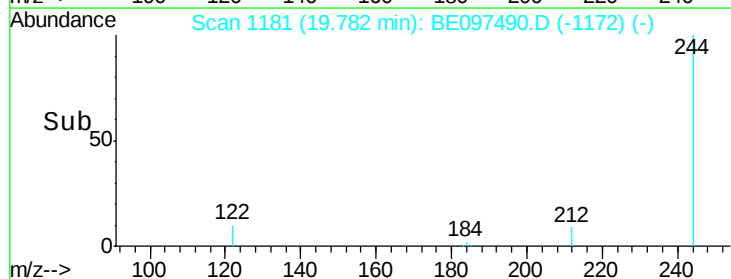
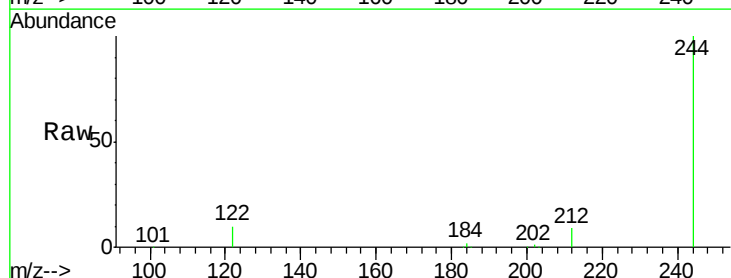
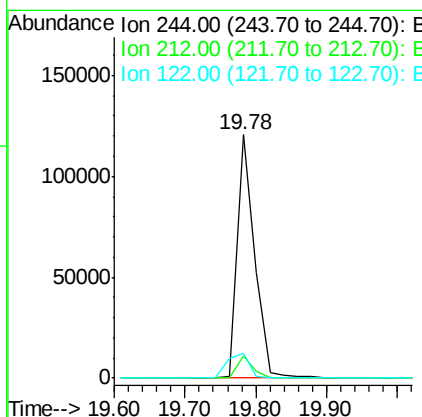
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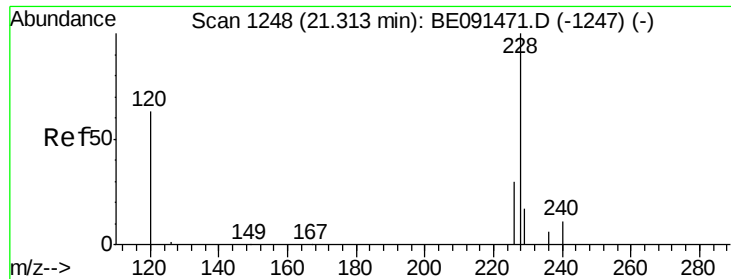
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#24
 Terphenyl-d14
 Concen: 2.07 ng
 RT: 19.78 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	9.3	5.8	8.8#
122	10.2	1.8	2.8#





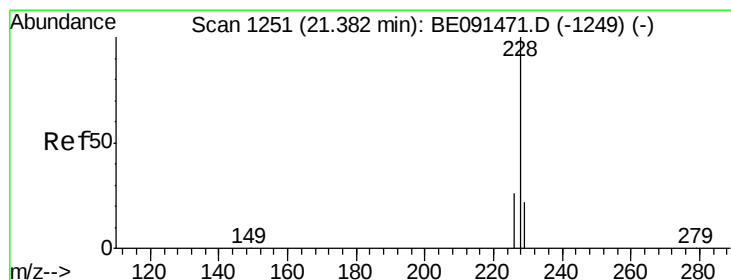
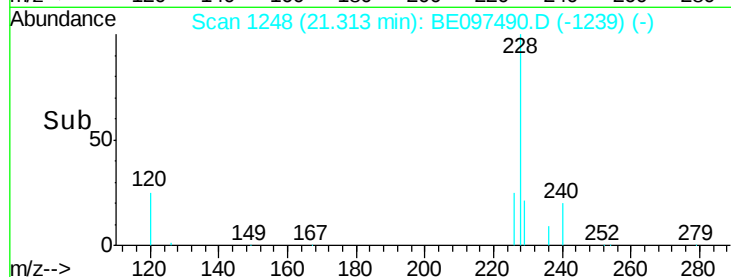
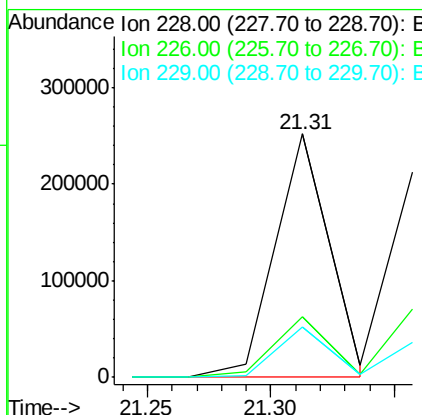
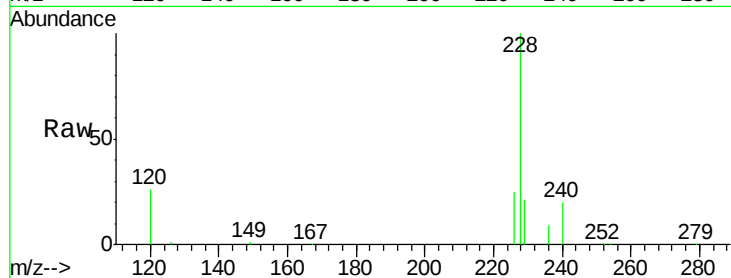
#25
Benzo(a)anthracene
Concen: 1.68 ng m
RT: 21.31 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.1	24.0	36.0
229	20.6	13.8	20.6

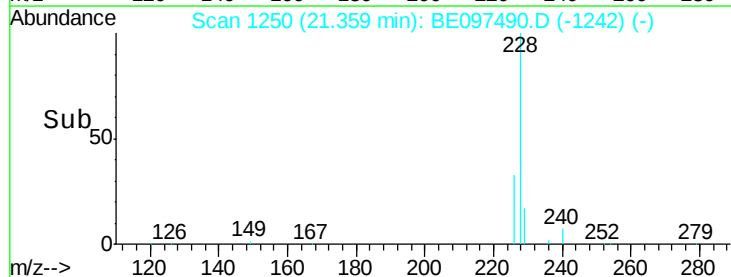
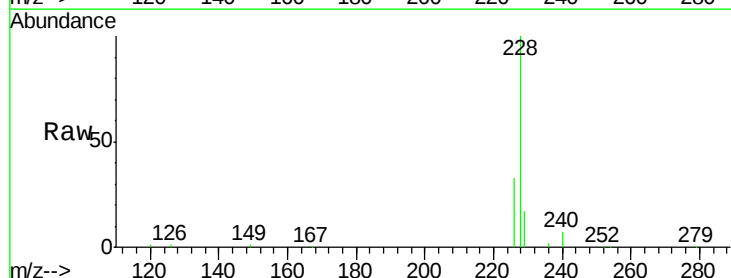
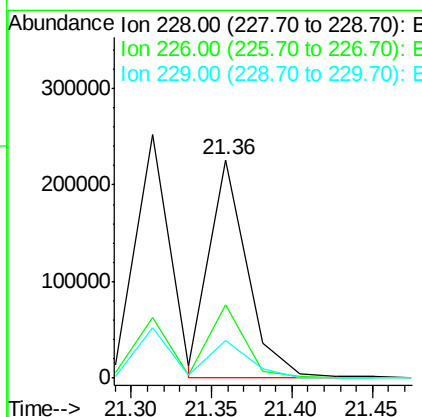
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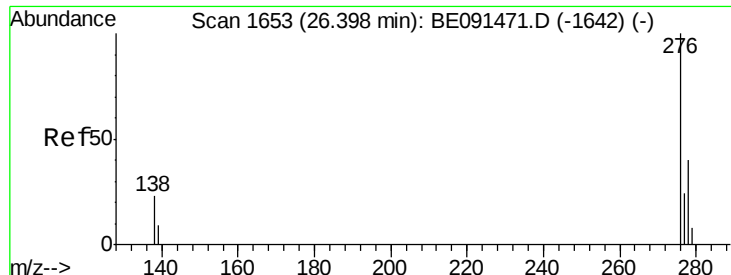
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#26
Chrysene
Concen: 1.72 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.4	18.9	28.3#
229	17.3	19.1	28.7#





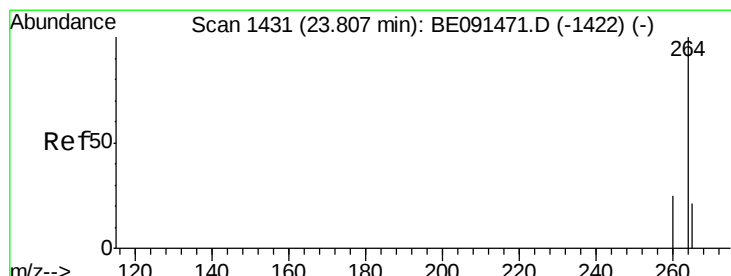
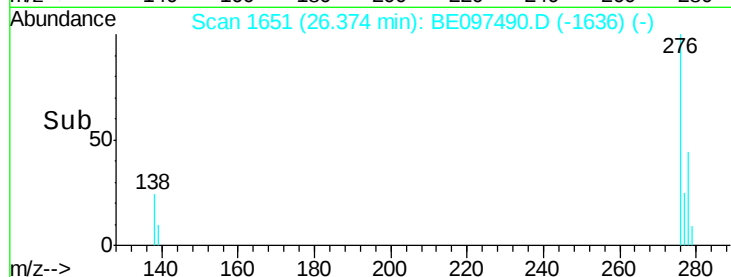
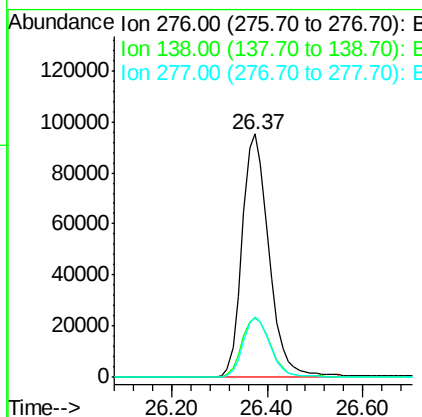
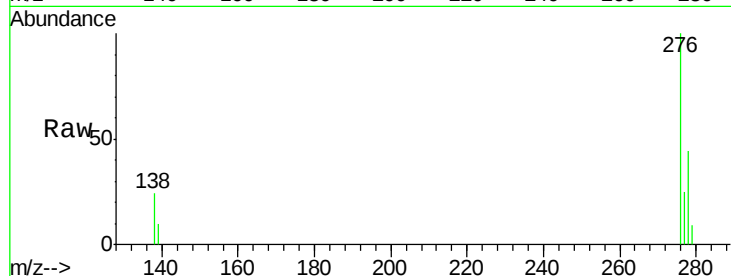
#27
Indeno(1,2,3-cd)pyrene
Concen: 1.55 ng
RT: 26.37 min Scan# 1651
Delta R.T. -0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.3	20.2	30.4
277	24.8	19.8	29.8

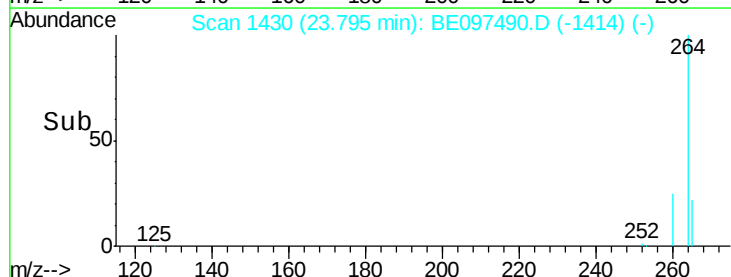
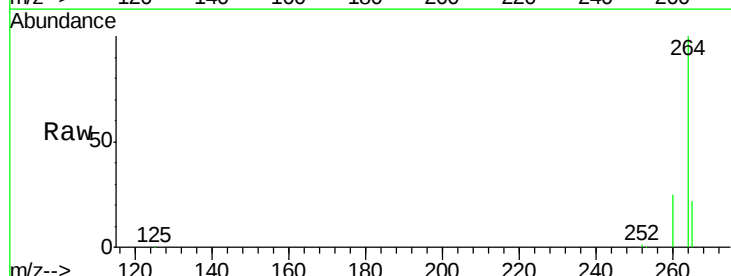
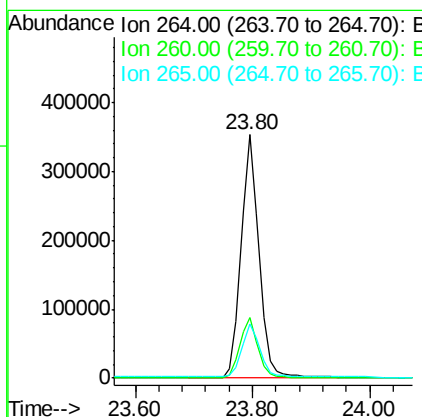
Manual Integrations
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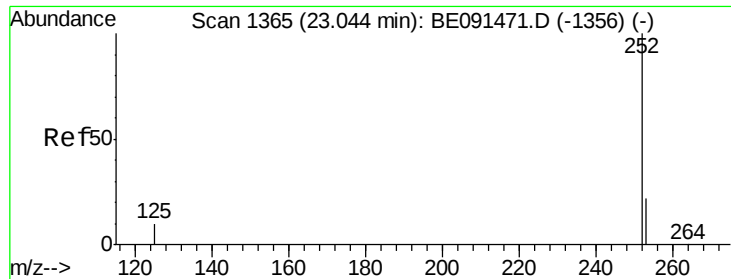
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

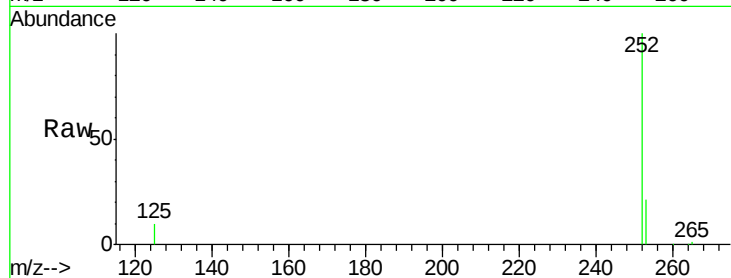
Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.9	20.1	30.1
265	22.1	18.3	27.5





#29
Benzo(b)fluoranthene
Concen: 1.46 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

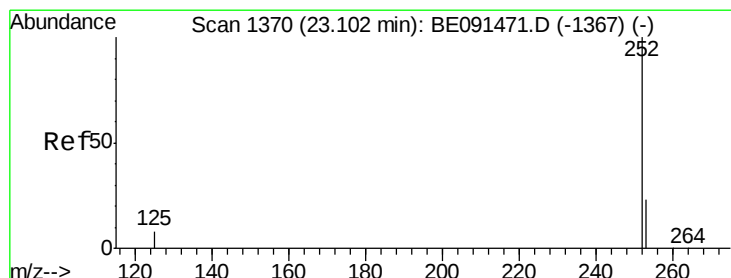
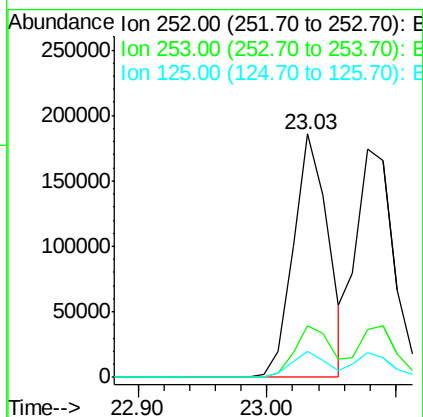
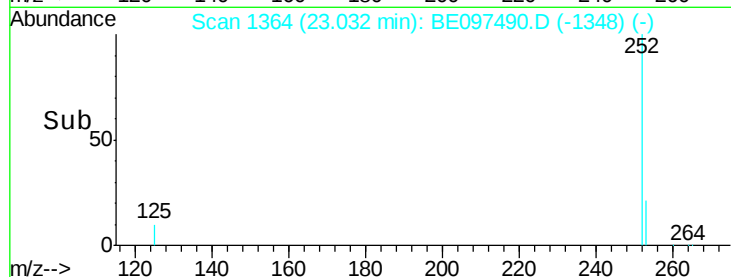
Instrument :
BNA_E
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.1	18.7	28.1
125	10.5	9.8	14.6

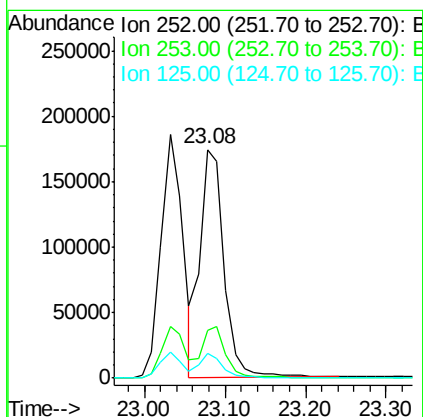
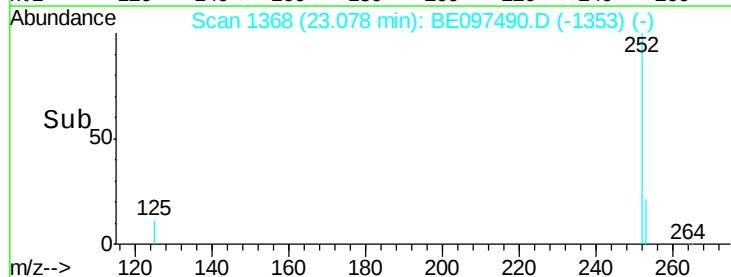
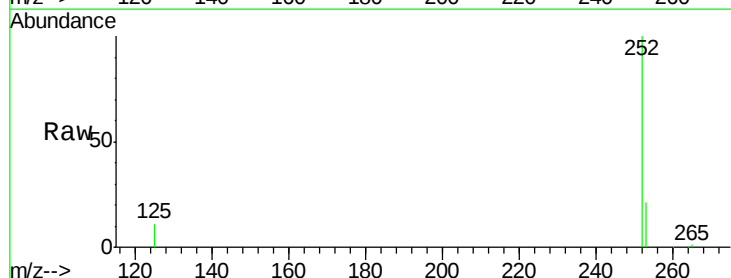
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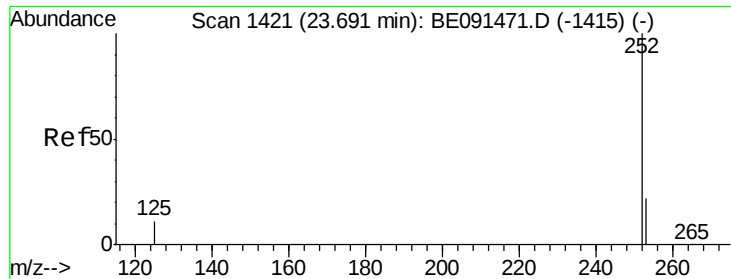
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#30
Benzo(k)fluoranthene
Concen: 1.48 ng
RT: 23.08 min Scan# 1368
Delta R.T. -0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

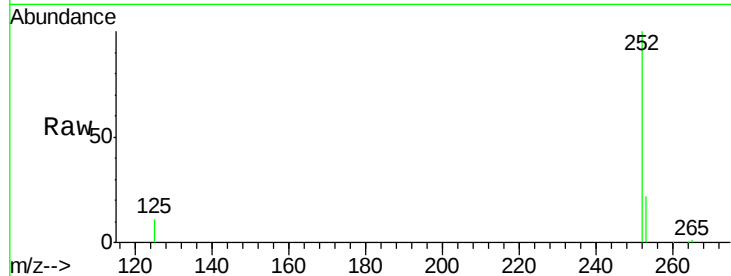
Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.9	20.2	30.4
125	11.0	9.4	14.2





#31
Benzo(a)pyrene
Concen: 1.49 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

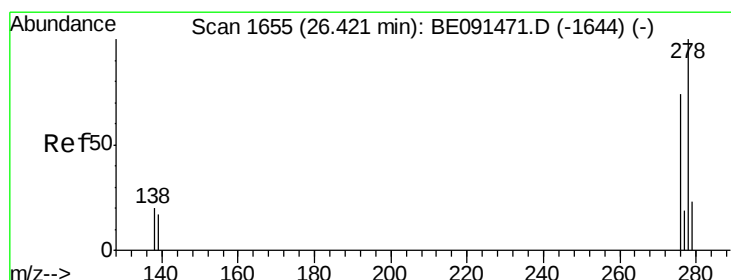
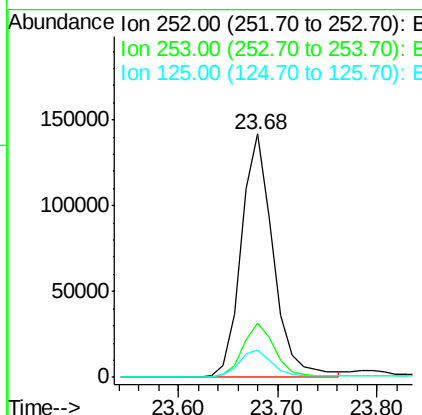
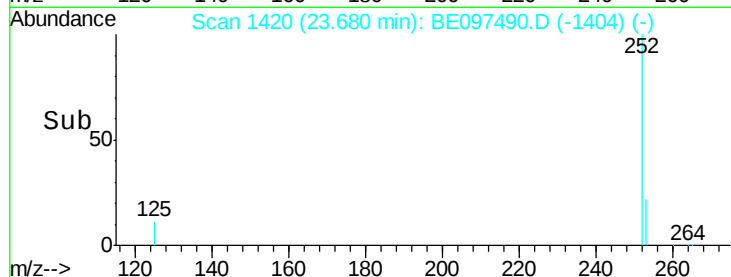
Instrument :
BNA_E
ClientSampleId :



Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.2	19.4	29.0
125	11.2	11.4	17.2

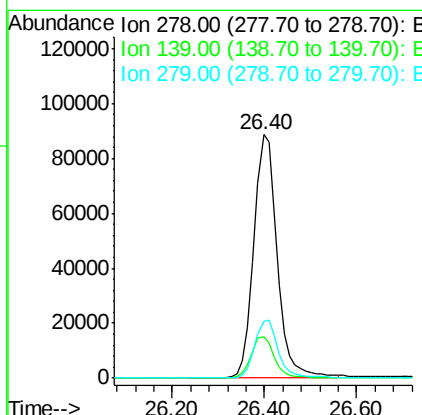
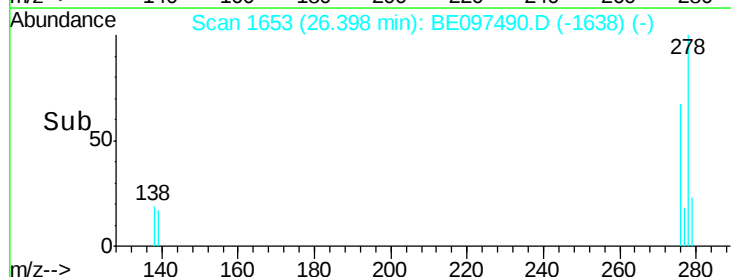
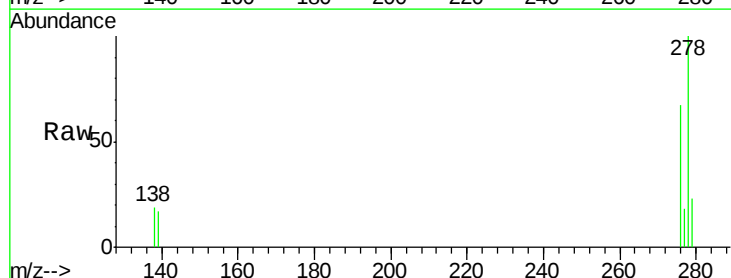
Manual Integrations
APPROVED

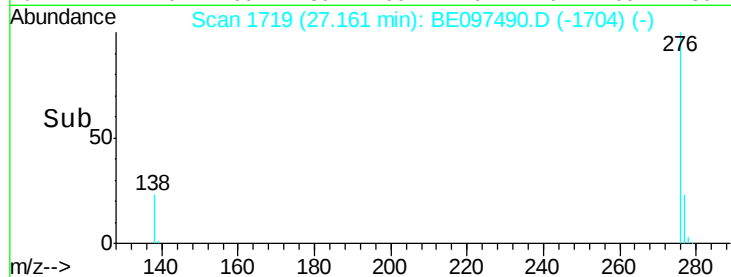
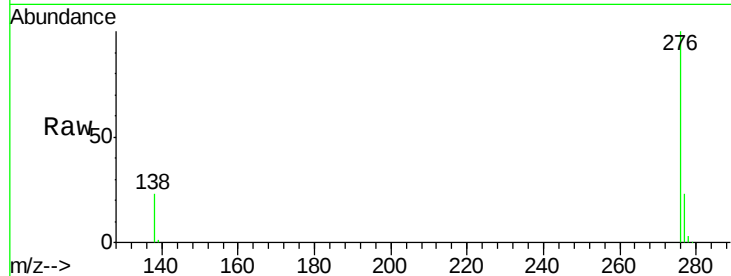
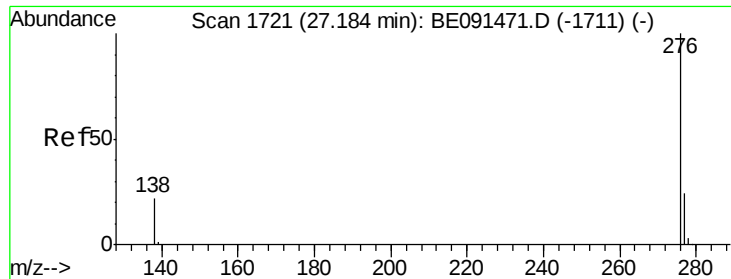
apatel
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#32
Dibenzo(a,h)anthracene
Concen: 1.51 ng
RT: 26.40 min Scan# 1653
Delta R.T. -0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 19:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	16.9	14.2	21.4
279	23.5	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 1.49 ng

RT: 27.16 min Scan# 1719

Delta R.T. -0.02 min

Lab File: BE097490.D

Acq: 18 Mar 2016 19:42

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		318891		
277	23.4	19.4	29.2		
138	23.1	18.2	27.4		

Instrument :

BNA_E

ClientSampleId :

Manual Integrations
APPROVED

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